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FM 100-60

OPFOR

ARMOR- AND MECHANIZED-BASED OPPOSING FORCE

ORGANIZATION GUIDE



HEADQUARTERS, DEPARTMENT OF THE ARMY

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ARMOR- AND MECHANIZED-BASED OPPOSING FORCE:

ORGANIZATION GUIDE

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Preface

This manual is one of a series that describes a capabilities-based Opposing Force (OPFOR) for training U.S. Army commanders, staffs, and units. See References section for a list of the manuals in this series. These manuals outline an OPFOR that can cover the entire spectrum of military capabilities against which the Army must train to ensure success in any future conflict.

Applications for this series of manuals include field training, training simulations, and classroom instruction throughout the Army. All Army training venues should use an OPFOR based on these manuals, except when mission rehearsal or contingency training requires maximum fidelity to a specific country-based threat. Even in the latter case, trainers should use appropriate parts of this capabilities-based OPFOR to fill information gaps in a manner consistent with what they do know about a specific threat.

This manual provides a menu of possible organizational building blocks for an armor- and mechanized-based OPFOR. From this menu, users can build an order of battle appropriate to their training requirements. For each type of unit, the manual outlines basic unit structure and possibly a number of variations. For most units, the manual also lists principal items of equipment. Appendixes provide guidance and examples for users who wish to substitute other items of equipment for the baseline systems listed for a unit.

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Nomenclatures of weapons and equipment in this publication are in compliance with international standardization agreements (STANAGs) 2097 and 3236.

Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men.

Introduction

This organization guide is part of the field manual (FM) series 100-60 that documents the ***capabilities-based Opposing Force (OPFOR).*** This series provides a flexible OPFOR package that users can tailor to represent a wide range of potential threat capabilities and organizations. The overall package features an armor- and mechanized-based OPFOR module and an infantry-based OPFOR module. Each module contains field manuals that describe organizations, operations, and tactics. A third module describes the organizations, operations, and tactics of other OPFORs not covered in the first two modules. A separate field manual provides characteristics of worldwide military equipment available to the capabilities-based OPFOR organizations in the three modules.

This introduction provides definitions of some basic terms used throughout the manual. For definitions of other key terms, the reader should refer to the index, where page numbers in bold type indicate the main entry for a particular topic. The referenced page often includes a definition of the indexed term.

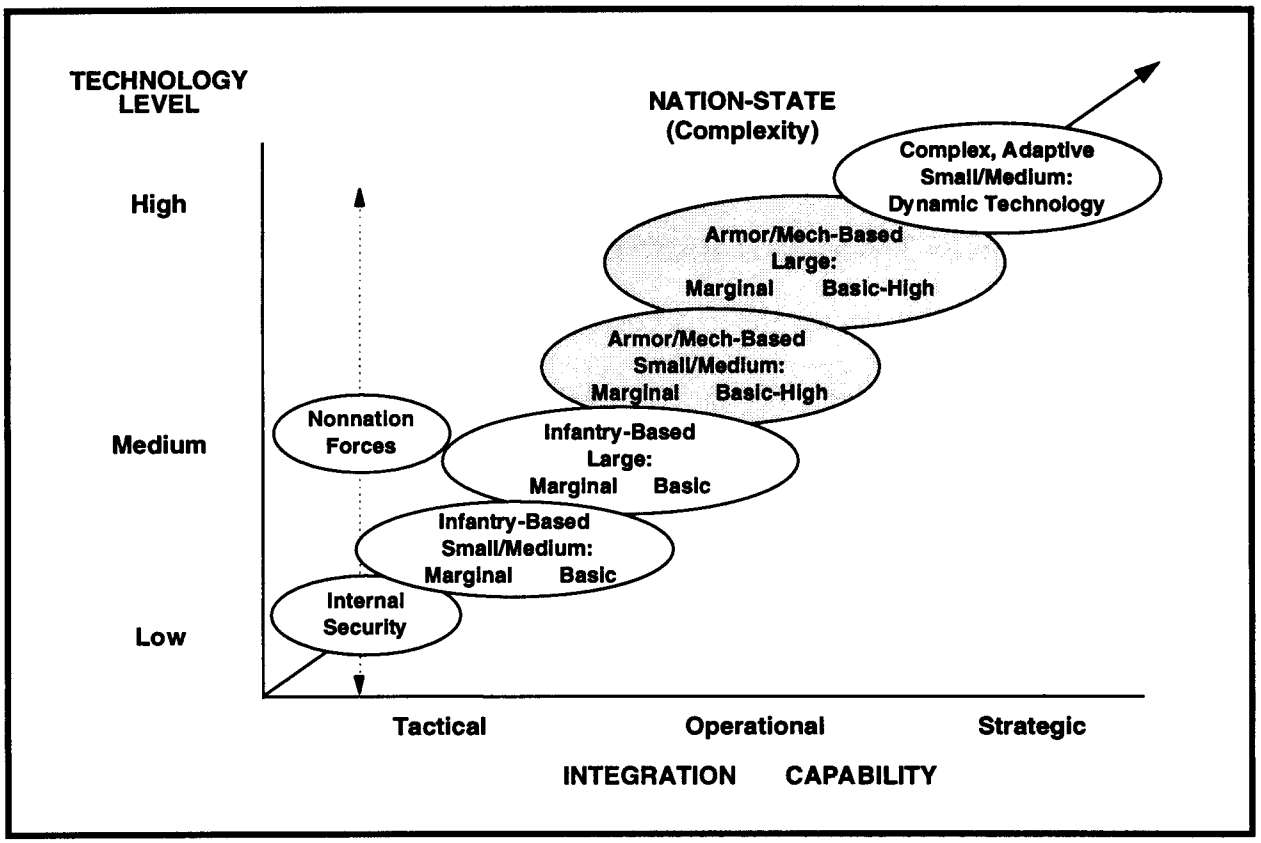
OPFOR VERSUS THREAT

The OPFOR is a training tool for preparing the Army to respond to a variety of threats. The following paragraphs explain the difference between an OPFOR and a threat and the relationships between the two.

Threat and Country-Based OPFOR

In simplest terms, a ***threat*** is a potential adversary. It can be any specific foreign nation or organization with intentions and military capabilities that suggest it could become an adversary or challenge the national security interests of the United States or its allies. As the Army moves into the twenty-first century, it is no longer possible to identify one or two nations or forces as the potential adversaries against which it needs to train on a regular basis.

When conflict is imminent, or when U.S. forces need to train for a particular contingency, training may focus on a specified threat force. This rehearsal for an actual mission or operation can involve a ***country-based OPFOR.*** Such an OPFOR should portray the specified, real-world threat force with the greatest possible fidelity based on the best available classified and unclassified information. Cases may exist in which constraints on the use of classified information preclude the use of actual threat data. Sometimes certain threat information may not be available at any level of classification. In such cases, trainers could fill in gaps by using those parts of the capabilities-based OPFOR that are most consistent with what they do know about a specific threat.



Spectrum of worldwide military capabilities.

Capabilities-Based OPFOR

In more typical cases, however, the U.S. Army simply needs to train against an OPFOR that represents a particular level of capability rather than a particular country.[1] The capabilities-based **OPFOR** is a realistic and flexible armed force representing a composite of varying capabilities of actual worldwide forces. It constitutes a baseline for training or developing U.S. forces in lieu of a specific threat force. This baseline includes doctrine, tactics, organization, and equipment. It provides a challenging, uncooperative sparring partner representative, but not predictive, of actual threats.

The capabilities-based OPFOR represents a break from past practices in two principal respects. First, the armor- and mechanized-based and infantry-based OPFOR modules are not simply unclassified handbooks on the armed forces of a particular nation. Rather, each module has its basis in the doctrine and organization of various foreign armies. These OPFOR modules are ***composites*** deliberately constructed to provide a wide range of capabilities. Secondly, the modules do not provide a fixed order of battle. Rather, they provide the ***building blocks*** from which users can derive an infi nite number of potential orders of battle, depending on their training requirements.

[1] Another definition of threat is in terms of a capability rather than a country. This could be any advanced technology or system possessed by a militarily significant country, including western or developing countries. The proliferation of such foreign systems or technologies could pose a threat to the U.S. Army or its systems.

The primary purpose of the field manuals in the 100-60 series is to provide the basis for a realistic and versatile OPFOR to meet U.S. military training requirements. They can support training in the field, in classrooms, or in automated simulations. However, users other than trainers also may apply the information in these manuals when they need an unclassified threat force that is not country-specific.

ARMOR- AND MECHANIZED-BASED OPFOR MODULE

Field Manual 100-60 depicts the forces of a ***developed country*** that devotes extensive resources to maintaining a military capability that rivals that of the United States. The name of that country is the ***State.*** It can have a strategic capability, with strategic air and air defense forces and strategic missile forces. It probably has a nuclear capability. Unless the State is landlocked, it can have a blue-water navy and naval infantry (marines).

In the armor- and mechanized-based OPFOR, ground forces are the largest component. The formal name of this branch of the armed forces, which corresponds to the U.S. Army, is the ***Ground Forces.*** These Ground Forces comprise several standing divisions and separate brigades, most of which are subordinate to standing armies or corps. Most of these forces are, in turn, subordinate to army groups. Army groups, armies, and corps can vary widely in strengths and capabilities, Even multiple army groups may come under a series of theater headquarters that orchestrate complex, large-scale operations.

The armor- and mechanized-based OPFOR can conduct a strategic operation involving the combined forces in a theater. These forces may compris-

- Several army groups.
- Strategic nuclear forces (strategic missile forces and strategic aviation).
- Strategic air armies.
- National air defense forces.
- A naval fleet.
- Naval infantry forces.
- Airborne forces.
- Special-purpose forces.
- National space forces.

Trainers may use any or all of these elements in an OPFOR order of battle as required.

Armor- and mechanized-based forces are the norm throughout the industrialized world. Such armies normally mount at least 40 percent of their ground forces in armored vehicles. They tend to modernize selected systems to match the best systems deployed by their neighbors, In terms of equipment and size, they range from small forces fielding outmoded equipment to large, capable forces fielding state-of-the-art weapons. For the most part, they base their tactics and doctrine on either their own experience or that of their arms/doctrine suppliers. Many of these nations produce and export weapons and technology up through state-of-the-art systems. If not, they have the financial resources to purchase such systems. Significant technologies that mark this class are in fire support and target acquisition.

Size and Capability

The armor- and mechanized-based OPFOR module includes a range of potential forces that can vary in size and capability. ***Small-to-medium armor- and mechanized-based forces*** cover a wide range of technology and capability, from developing states through small, professional armies. ***Large armor- and mechanized-based forces*** often have more sophisticated weaponry. Both types can field self-propelled artillery and multiple rocket launchers; artillery-delivered precision munitions; medium-to-heavy tanks; and limited thermal capability. These forces may or may not have nuclear weapons but at least have the capability to produce or acquire them. The more advanced states have the logistics and command structures necessary to conduct continuous operations, and joint operations are the norm. Large armor- and mechanized-based forces can conduct large-scale, combined arms operations. Some such forces are capable of sustained power-projection operations.

The high-technology end of the armor- and mechanized-based OPFOR approaches the level termed ***complex, adaptive forces***. From developed nations, these most technically and tactically advanced forces can choose quality over quantity. As they modernize, they can reduce in size and still maintain a high level of military capability. These forces normally have a complex structure, with more specialized units operating highly sophisticated equipment. They are also capable of adapting to dynamic situations and seizing opportunities on the battlefield. However, such a force is exceedingly expensive to equip, train, and maintain.

Thus, the differences between the infantry-based and armor- and mechanized-based OPFOR modules are largely ***scenario-dependent.*** A particular training scenario may not require a large array of standing forces or justify the extensive use of mechanized infantry or tank forces. If not, the infantry-based forces of FM 100-63 may better fit training needs. Sometimes trainers may find it necessary to draw ***some elements from both organization guides*** in order to constitute the appropriate OPFOR order of battle.

Compared to Infantry-Based OPFOR

Infantry-based forces are common throughout the developing world. None of these forces is capable of meeting the most advanced armies on an even footing in conventional battle. An infantry-based force differs from an armor- and mechanized-based force primarily in terms of technological level and the ability to integrate arms into combined arms combat.

The infantry-based OPFOR generally represents the armed forces of a ***developing country with limited resources.*** The name of that country would also be the *State*. *In* this case, the State's military structure still consists primarily of the Ground Forces. However, these Ground Forces are primarily infantry (dismounted or motorized), with relatively few mechanized infantry and tank units and perhaps some airborne infantry units. Compared to the armor- and mechanized-based OPFOR, these forces typically have fewer standing divisions and brigades. However, infantry-based forces, too, can vary in size and capability.

The focus of FM 100-63 is on ***small-to-medium infantry-based forces*** in which divisions and separate brigades are subordinate to military regions and districts. They have some armor but rely on dismounted or motorized infantry for the bulk of their combat power. They normally conduct set-piece operations, integrating arms at the tactical level. A small infantry-based force typically has marginal integration capability (ability to conduct tactical-level combat actions with limited fire support) or basic integration capability (ability to conduct battalion-level tactical combined arms actions). Even with a small infantry-based force, however, the State might mobilize and deploy one army- or corps-size force capable of conducting large-scale operations against a neighboring country whose armed forces are also infantry-based. A medium-size infantry-based force may have one or more standing armies or corps and the capability to integrate forces at the lower end of the operational level. In terms of technology, both groups import most of their systems.

Medium and large infantry-based forces may also possess significant armor- and mechanizedbased formations. They typically use these heavier units as exploitation forces or mobile reserves. ***Large infantry-based forces can*** have multiple armies or corps and conduct extensive set-piece operations over broad frontages. However, they are normally capable of projecting military power only within their region. The key technologies that can allow this are self-propelled artillery and offensive chemical and biological warfare. The State may or may not have chemical and biological weapons, but has the capability to produce or acquire them. A country with large infantry forces can have extensive, basic weapons industries, or it may still import most systems.

When opposed by an adversary of similar capabilities, an infantry-based OPFOR can conduct conventional, force-oriented combat. However, when faced with a large, technologically advanced army, it may choose to redefine the terms of conflict and pursue its aims through terrorism, insurgency, or partisan warfare. In the case of intervention by an external power or coalition, this strategy aims to undermine the enemy's will to continue the conflict without the necessity of defeating his main forces on the battlefield.[2]

Aside from the Ground Forces, the State's armed forces may include any or all of the following components:

- The Air Force, including the Air Defense Command.
- The Special Operations Command, with commando and special-purpose forces.
- The Navy, consisting of a small, brown-water force.

This OPFOR can also include less-capable forces, such as internal security forces, the militia, and reserves. This menu of possible forces allows U.S. military trainers to tailor the OPFOR order of battle to meet virtually any training requirement involving an infantry-based force.

Field Manual 100-63 depicts infantry-based forces of a country that is divided geographically into an unspecified number of military regions, each with a number of subordinate military districts. This OPFOR stations most combat forces within military districts that can vary widely in their strengths and capabilities. The organization guide allows for standing divisions, but districts with separate brigades would be much more common and in keeping with the spirit of the infantry-based OPFOR concept. If the trainer requires a large infantry-based force, the ***combined use of FMs 100-60 and 100-63*** may better suit his purpose.

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2 Throughout the FM 100-60 series, the term ***enemy*** refers not to the OPFOR but rather to the enemy of the OPFOR.

Compared to Other OPFORs

Field Manual 100-66 provides a menu of other OPFORs to meet U.S. training objectives in stability and support operations. Compared to either OPFOR module described above, these other OPFORs are less well defined. By their very nature, they are unpredictable. They differ from an armor- and mechanized-based or infantry-based OPFOR primarily in size, technological level, and the ability to integrate arms into operations.

In this case, most military forces have lower capability than an infantry-based OPFOR. These may be the forces of a ***preindustrial nation*** or a ***nonnation group.*** With limited assets, most such groups cannot, or will not, invest in the weapons and technology necessary to keep pace with the best militaries in their regions. Rather than standing organizations with predictable structures, most of their military organizations are *ad hoc***.** Depending on the situation, these irregular forces may bear the labels of insurgents, guerrillas, or light infantry. There may also be more organized forces such as internal security forces or regular military units. The common thread is that they have little or no organic heavy equipment.

Like the lower end of the infantry-based OPFOR, these forces are likely to attempt to deal with a larger, more technologically advanced army through terrorism or insurgency. They do not try to meet such an enemy head-on in conventional combat. They prefer hit-and-run raids, ambushes, terror tactics, or harassment.[3] They try to be unpredictable and invisible, employing methods not anticipated by their enemies. They do not fight by the rules of conventional warfare.

These OPFORs may also include forces that are better equipped and better trained. They may be part of or sponsored by a large-scale drug or criminal organization, or they may have the backing of a wealthy outside power. They may still be small and lightly armed but could have sophisticated, state-of-the-art light weapons. They are light not out of austerity but for practical reasons, because the lightness of the equipment enhances mobility. They may also have high-technology communications and reconnaissance means.

There may be occasions where OPFORs encountered in stability and support operations include a sophisticated military organization with heavier weapons. If the U.S. force is participating in a peacekeeping operation, for example, the OPFOR may be the recognized military of a belligerent nation. As such, it could include armor- and mechanized-based or infantry-based forces of the types found in FMs 100-60 and 100-63, respectively. Likewise, some types of OPFOR described in FM 100-66 can also appear during war.

Like other manuals in this series, FM 100-66 addresses the situation from the OPFOR's perspective. The U.S. force training against the OPFOR may consider itself as performing stability and support operations in an environment of peace or conflict. However, the OPFOR may consider itself at war. Still, the OPFOR concept of victory does not necessarily equate to defeating U.S. forces in a force-on-force battle.

[3] Although various OPFORs depicted in FM 100-66 may use terror tactics, one specific type of OPFOR is a terrorist group.

ORGANIZATION CHARTS

Organization charts depict all possible subordinate units. If training objectives do not require the use of all elements shown in a particular organization, users can omit the elements they do not need. Aside from the basic organization, a chart may indicate possible variations and alternatives. Users must ensure that the size and composition of the OPFOR is sufficient to meet training objectives and requirements. However, total assets organic to an organization or allocated to it from higher levels should not exceed that which is ***realistic and appropriate*** to the training scenario. Skewing the force ratio in either direction negates the value of training. Therefore, specific orders of battle derived from this organization guide are subject to approval by the trainers' OPFOR-validating authority.

Flexibility Within Realistic Limits

Some organization charts have blocks showing two or more ***alternatives*** for a particular type of subordinate unit. For example, a separate brigade might have either a signal battalion or a signal company. Therefore, one block in the brigade's organization chart reads "SIGNAL BATTALION/COMPANY." In most cases, the unit listed first is the norm, but the other alternative is an option. Many organization charts have footnotes that identify possible ***variations*** in organizational structure or equipment. These alternatives allow users to select the basic organization or the variation that best suits their training requirements.

Stacked blocks in the organization charts indicate multiple, identical units subordinate to a particular organization. ***Dashed blocks*** indicate units that may or may not be present in the type of organization shown. In some cases, the stacked blocks may involve a combination of solid and dashed blocks. This means that the parent unit normally has at least the number of subordinates indicated in solid blocks but may have as many as indicated by the dashed blocks. In some cases a footnote explains the conditions under which the different numbers of blocks are appropriate.

Focus on Maneuver Units

The organization charts in this guide focus on maneuver units. They begin with the largest maneuver units and work down to the smallest. When feasible, the guide breaks down subordinate maneuver units, as well as combat support (CS) and combat service support (CSS) units, in greater detail.

The basic maneuver unit is the ***brigade.*** Some armor- and mechanized-based forces, however, may call the same organization a ***regiment.*** In this case, the difference in terminology is merely semantic and does not signify a different structure or capability.

Maneuver brigades exist in two basic types: the divisional brigade and the separate brigade. In OPFOR terminology, a ***divisional*** brigade is one that is always part of a division. A divisional brigade consists of three or, more likely, four maneuver battalions and a wide array of CS and CSS elements. In contrast, a ***separate*** unit is one that is not subordinate to a parent unit of the same arm. For example, a separate mechanized infantry brigade is not part of a mecha-

nized infantry division (or any division, for that matter). It is directly subordinate to a corps or an army or perhaps even an army group. A separate brigade normally has five maneuver battalions. Aside from that, separate brigades have some of the CS and CSS assets normally found at division level. They need these in order to fight more independently, without relying on support from a parent division.

The first three chapters deal with maneuver divisions, brigades, and battalions, in that order. Since ***IFV-equipped mechanized infantry*** units are the most common in this armor- and mechanized-based OPFOR, these units come first within each of these chapters. Following these, in descending order of likelihood, come ***APC-equipped mechanized infantry*** and ***tank*** units. Even an armor- and mechanized-based OPFOR may have some (truck-mounted) motorized infantry forces. However, except for showing the overall organization of a motorized infantry division, this manual refers the user to FM 100-63 for details on such motorized forces and their subordinates. This avoids duplication.

The final two chapters deal with larger force groupings at the operational level. This includes various options for army and corps structures, as well as army groups and other assets available from the national level. These chapters also describe possible subordinates other than the maneuver units covered in the first three chapters.

Avoiding Repetition

It is also important to eliminate duplication within FM 100-60. Regardless of how many places a given unit may appear as a subordinate of other, larger units, its own separate organization chart appears only once within this manual. Any subordinate unit common to both IFV- and APC-equipped mechanized infantry or tank units is not repeated. The unit appears following the organization chart for its most common parent unit, which is normally the first occurrence in the manual. Likewise, a unit that could be subordinate either to a division or to a separate brigade appears only once, normally in the division chapter. Obviously, divisional brigades are subordinate to divisions, and maneuver battalions are subordinate to brigades. Nevertheless, maneuver brigade organization charts appear only in the brigade chapter and battalions only in the battalion chapter.

Page References for Detail

In the main organization chart for any parent unit, subordinate units defined elsewhere in greater detail have ***page references*** beneath their respective block in the organization chart. This reference leads the user to the subordinate unit, even if its organization chart appears in another chapter or another part of the same chapter. To avoid excessive duplication, subordinate units common to several types of parent units receive detailed treatment only once, with subsequent cross-references back to that basic entry. Units without such page references do not have separate entries with further detail.

Occasionally, there may be a small subordinate unit that does not have its own organization chart showing further subordinates. However, the user may find a page reference leading to the parent unit's spreadsheet table of principal items of equipment, which breaks down equipment totals by subordinate units.

In some cases there may be ***multiple page references*** under a particular block. This means that there is more than one option for the makeup of that organizational element. It may be that there is more than one possible type of the subordinate unit, with the page reference to the most likely type listed first. Multiple page references also appear when a block contains more than one possible subordinate. In this case, the page references beneath that block indicate the locations of the various options, for example "(pp 1-61/2-46)," listed in the same order in which the options appear in the block.

Headings

Headings within each chapter indicate the name of the specific unit depicted and of all organizations to which this type of unit may be subordinate. The heading always spells out the full name of the unit depicted, but normally uses an abbreviation for the parent unit(s). (See Glossary.) When a heading indicates that a particular unit is subordinate to an MIBR-without identifying it as (Div) or (Sep) or as (IFV) or (APC)-, that means it occurs in both divisional and separate mechanized infantry brigades regardless of whether they are IFV- or APC-equipped. Likewise, when an antitank gun battery shows subordination to an AT Bn-- without specifying whether this is the AT Bn, MID, or the AT Bn, MIBR--, that means it can occur in either type of antitank battalion.

PRINCIPAL ITEMS OF EQUIPMENT

For organizations of brigade size or smaller, this book provides a table of principal items of equipment. Units above brigade/regiment level either have no fixed structure or have so many variations in possible structure that equipment totals are difficult to quantify. Therefore, the organization guide leaves such totals to users who build actual orders of battle for a specific OPFOR in a specific scenario. The OPFOR order of battle must meet the user's training requirements, based on the menu of possible organizational parts provided in this manual. If a particular piece of equipment is not appropriate for a specific scenario, trainers may delete it or substitute another system according to the guidelines in this manual. However, such deletions or substitutions are subject to approval by the trainers' OPFOR-validating authority.

For brigades and regiments, as well as selected battalions, this table takes the form of a ***spreadsheet*** that provides a quick overview of the holdings for subordinate units and equipment totals for the unit as a whole. When the organization chart indicates multiple, identical units subordinate to a particular organization (using stacked blocks), the spreadsheet column for that particular subordinate indicates equipment totals already multiplied by the number of such units present. The heading at the top of such a column indicates that multiplication by adding an annotation, for example "(x2)" or "(x3)," after the name of the subordinate unit type.

Footnotes in equipment lists may serve one of two purposes. A footnote linked to the equipment nomenclature in the "Equipment" column indicates additional information about that piece of equipment or a possible substitute for it. On the other hand, a footnote linked to a number in the "Total" column indicates possible variations in the quantity of that particular item of equipment.

Equipment totals include individual weapons only at maneuver battalion level and below. The same is true of night-vision devices (goggles and sights). These figures vary widely from unit to unit, although separate brigades tend to field more goggles in CS and CSS units than do divisional brigades. With the exception of maneuver units (battalion and below), it is difficult to account for the varying numbers of night-vision devices, especially the goggles worn by vehicle drivers.

This guide provides example equipment types and the numbers of each type typically found in specific organizations. The purpose is to give users a good idea of what an OPFOR structure should look like. However, training requirements may dictate some modifications to this baseline. Users should exercise caution in modifying equipment holdings, since this impacts an OPFOR unit's organizational integrity and combat capabilities.

Baseline Equipment

A developed country may equip its armor- and mechanized-based OPFOR either with indigenous systems or with systems imported from other, weapons-producing countries. For illustrative purposes, the equipment lists in this manual normally show systems produced by the former Soviet Union (FSU). There are two reasons for using FSU-produced equipment as the baseline. First, many potential threat countries have equipped their armed forces with systems the FSU and its successor states have built in large numbers and ***proliferated*** throughout the world. Second, this equipment is ***representative of a unit's or force's technological capability.*** Listing these familiar, well-documented systems paints an immediate, concrete picture of that capability. Listing generic equipment descriptors, such as *medium tank* or *antitank guided missile,* would not create as clear an impression of capabilities. Moreover, generic descriptors would not lead to the development of consistent equipment sets. This organization guide, therefore, normally uses generic descriptors only when the choice of systems would not materially affect basic unit or force capabilities.

Equipment Substitution

To achieve specific training objectives, or merely to provide variety in the training environment, users can substitute other equipment for those listed as the baseline. Substitution matrices list a sampling of comparable and alternative systems that militarily significant countries, including the United States and its allies, produce or possess. The country of origin or an actual country possessing such systems does not necessarily pose a threat to the United States, but an OPFOR with this capability could present a challenge in U.S. Army training.

The matrices contained in Appendix A suggested examples of appropriate substitutions for major maneuver and fire support systems. Appendix B contains the matrices for engineer equipment. Appendix C lists examples of cargo trucks, trailers, and radios corresponding to the generic descriptors used in equipment lists. Each appendix also provides general guidelines for the substitution process.

Appendixes A, B, and C are guides; they cannot be all-inclusive, listing every conceivable system available. In constructing an OPFOR order of battle, therefore, trainers may substitute systems not in the appendixes. For a wider selection of major systems from which to choose in the substitution process, users should see FM 100-65. However, they should follow the same general philosophy and the guidelines prescribed in the appendixes.

Chapter 1
Maneuver Divisions

Even an armor- and mechanized-based OPFOR may also have some motorized infantry divisions in its Ground Forces. (See p 1-86 and FM 100-63.) Aside from that, the Ground Forces have two basic types of maneuver divisions: the mechanized infantry division and the tank division. Both types are combined arms organizations. A mechanized infantry division has one tank brigade along with its three mechanized infantry brigades. The latter may comprise two IFV-equipped brigades and one APC-equipped brigade or vice versa. A tank division has one IFV-equipped mechanized infantry brigade along with its three tank brigades. Combat support and combat service support units are basically the same for all mechanized infantry and tank divisions. The only differences are variations in the composition of the self-propelled artillery regiment and the maintenance battalion, and the fact that the tank division has no antitank battalion.

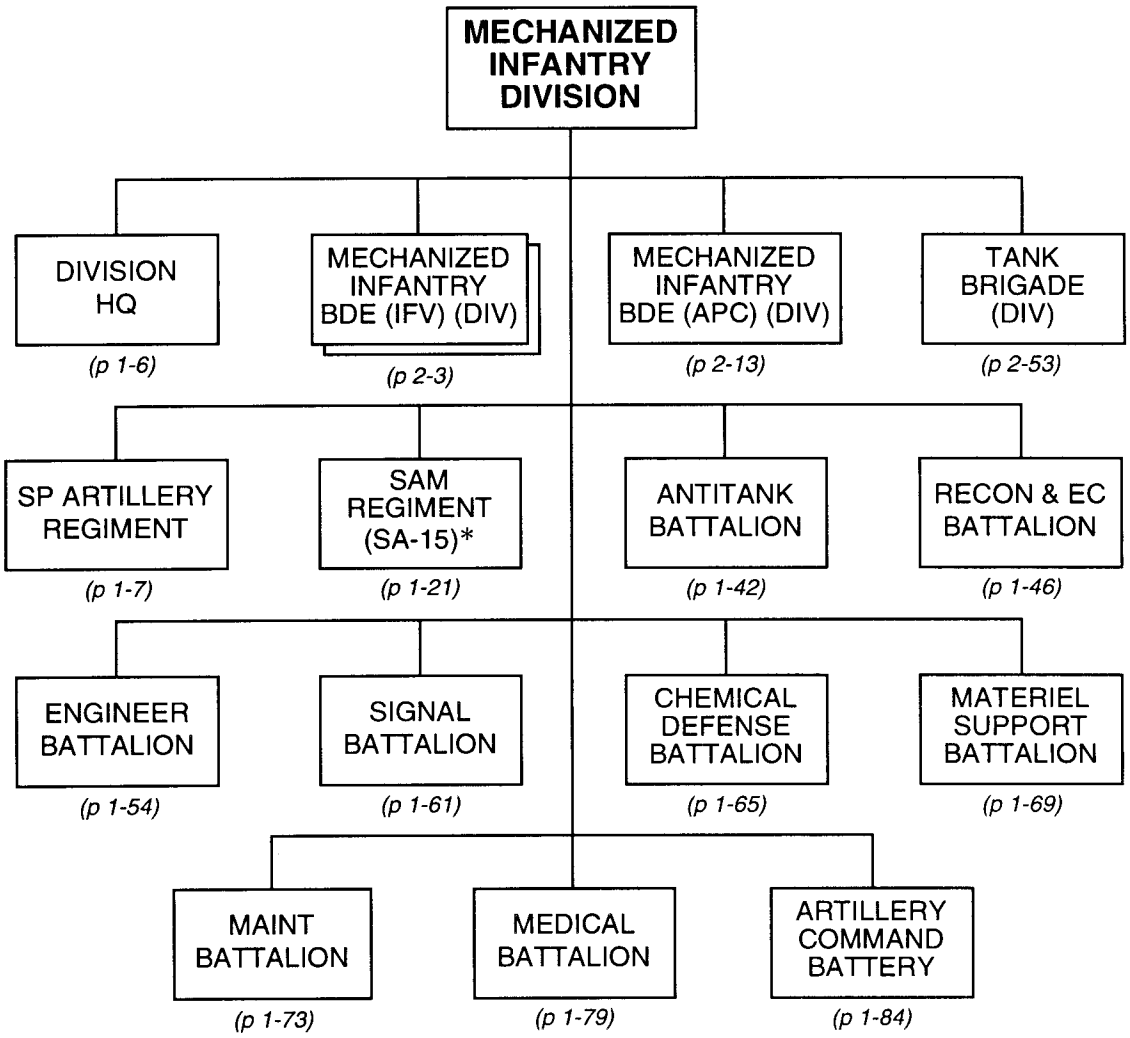
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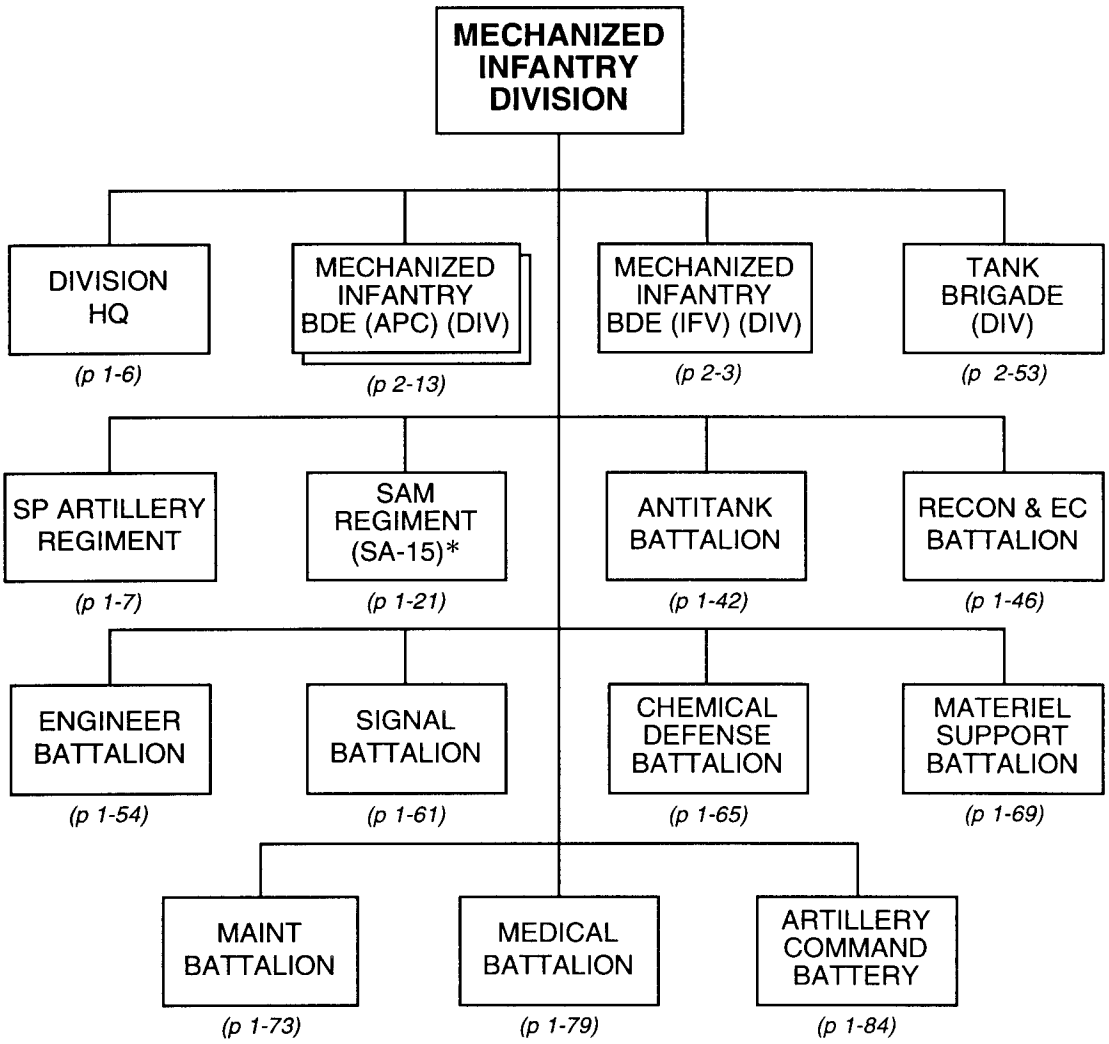
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Mechanized Infantry Division (IFV-Heavy)



* Instead of the SA-15 SAM regiment, the tank division may have a SAM regiment equipped with the SA-6 (p 1-33) or SA-8 (p 1-29) or a 57-mm AA gun regiment (p 1-37).

Mechanized Infantry Division (APC-Heavy)



* Instead of the SA-15 SAM regiment, the tank division may have a SAM regiment equipped with the SA-6 (p 1-33) or SA-8 (p 1-29) or a 57-mm AA gun regiment (p 1-37).

Division Headquarters, MID and TD

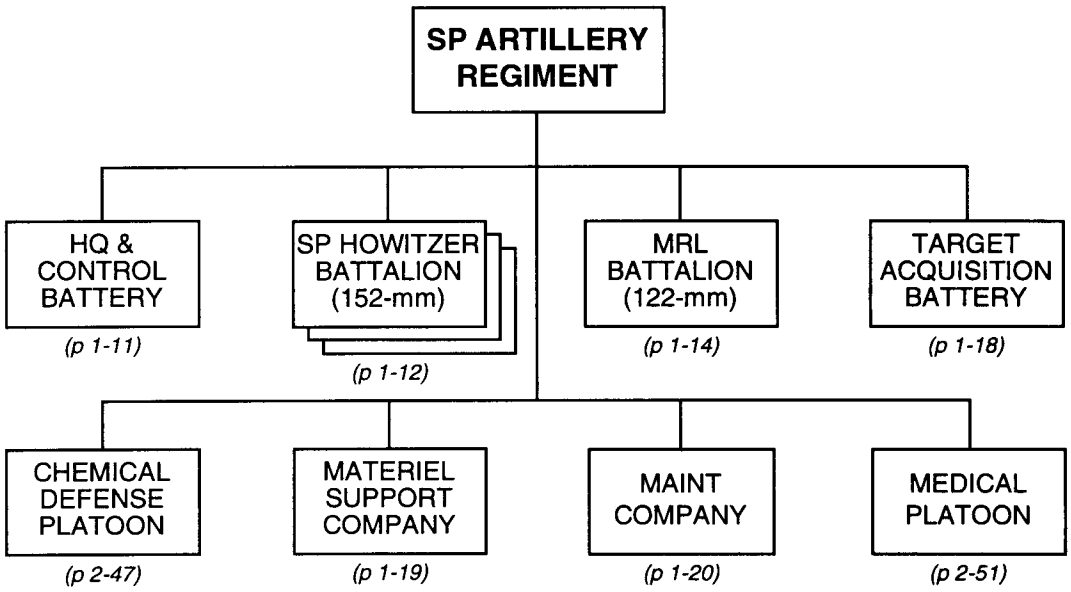
DIVISION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	6
ATGL, RPG-7V	3
5.45-mm LMG, RPK-74	3
APC, BTR-60/70/80	3
Truck, Utility	12
Truck, Light	9
Truck, Medium	4
Truck, POL (5,000-Liter)	1
Van, Command	12
Van, Maintenance	1
Van, Signal	2
Ambulance	1

Equipment	Total
Trailer, Cargo, 1-Axle	4
Trailer, Generator	3
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	5
VHF, Vehicle Mount, Medium-Power	3
HF/VHF, Vehicle Mount, High-Power	2
Warning Receiver	1

Self-Propelled Artillery Regiment, MID



Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP How Bn (x3)*	*122-mm MRL Bn*	*Target Acquisition Btry*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80	1								1
ACV, BTR (R-145BM)	2			1					3
Chem Recon Vehicle, BRDM-2RKh/RKhM	1				3				4
Mobile Recon Post , PRP-3/4*	1	3		1					5
APC, Radar, MT-LB (SNAR-10)**				1					1
APC, Radar, MT-LB (ARK-1)***				1					1
ACRV, 1V13/1V13M/1V22 (Btry FDC)		9							9
ACRV, 1V14/1V14M/1V23 (Btry COP)		9							9
ACRV, 1V15/1V15M/1V24 (Bn COP)		3							3
ACRV, 1V16/1V16M/1V25 (Bn FDC)		3							3
ACRV, 1V18/1V152 (Btry COP)****			3						3
ACRV, 1V19/1V152 (Bn COP)****			1						1
Armored Recovery Vehicle							1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system.

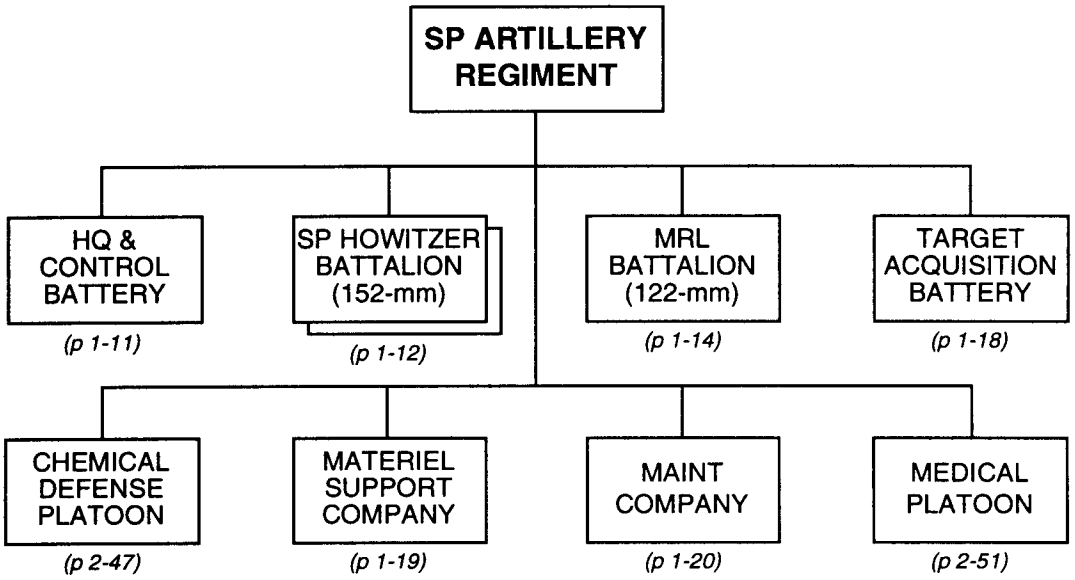
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Self-Propelled Artillery Regiment, MID (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP How Bn (x3)*	*122-mm MRL Bn*	*Target Acquisition Btry*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS									
152-mm SP Howitzer, 2S3 or 2S19		54							54
152-mm Laser-Guided Projectile Set		12							12
122-mm MRL, BM-21			18						18
ATGL, RPG-7V	4	18	6				4		32
SAM, Shoulder-Fired	3	54	18						75
TRUCKS									
ACRV, 1V110/1V153 (Btry FDC)*			3						3
ACRV, 1V111/1V153 (Bn FDC)*			1						1
Truck, Utility	6		1			1	1		9
Truck, Light	2			2		1		1	6
Truck, Medium	1	60	37	3		45	3	2	151
Truck, Decon, ARS-12U/14					3				3
Truck, Decon, DDA-53/66					1			1	2
Truck, POL (5,000-L)		12	3			6			21
Truck, Water (2,000-L)					2				2
Van, Hospital								1	1
Van, Maintenance	1	6	3	4		2	6		22
Van, Signal	2	12	4						18
Van, Survey				1					1
Ambulance		3	1					4	8
TRAILERS									
Trailer, Cargo, 1-Axle				1					1
Trailer, Cargo, 2-Axle	1	51	27			30	3		112
Trailer, Generator	2	6	2	2			2		14
Trailer, Kitchen	1	9	3	1				1	15
Trailer, POL (4,200-L)		12	3			6			21
Trailer, Water (900/1,200-L)	1	3	1	1	2	2		1	11
RADIOS									
VHF, Manpack, Low-Power	6	30	18	13		1	1	1	70
VHF, Portable, Low-Power	1								1
VHF, Vehicle Mount, Medium-Power	5	81	6	4	3				99
HF, Manpack, Low-Power	1				1				2
HF, Vehicle Mount, Medium-Power	5								5
HF/VHF, Vehicle Mount, Medium-Power	3	12	4						19
HF/VHF, Vehicle Mount, High-Power	1								1
Radio Relay, VHF/UHF	1								1
Warning Receiver	1	6	1	1					9
MISCELLANEOUS									
Sound Ranging Set				1					1
Rangefinder, Laser	1	21	7	2					31
Rangefinder, Laser, Binocular		27	9						36
Periscopic Aiming Circle	1	18	6	2					27
Night-Vision Sight (Aiming Circle)	1	18	6	2					27
GPS Receiver	1	96	32	4					133

* The 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

Self-Propelled Artillery Regiment, TD



Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP How Bn (x2)*	*122-mm MRL Bn*	*Target Acquisition Btry*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80	1								1
ACV, BTR (R-145BM)	2			1					3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1				3				4
Mobile Recon Post , PRP-3/4*	1	2		1					4
APC, Radar, MT-LB (SNAR-10)**				1					1
APC, Radar, MT-LB (ARK-1)***				1					1
ACRV, 1V13/1V13M/1V22 (Btry FDC)		6							6
ACRV, 1V14/1V14M/1V23 (Btry COP)		6							6
ACRV, 1V15/1V15M/1V24 (Bn COP)		2							2
ACRV, 1V16/1V16M/1V25 (Bn FDC)		2							2
ACRV, 1V18/1V152 (Btry COP)****			3						3
ACRV, 1V19/1V152 (Bn /COP)****			1						1
Armored Recovery Vehicle							1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system.

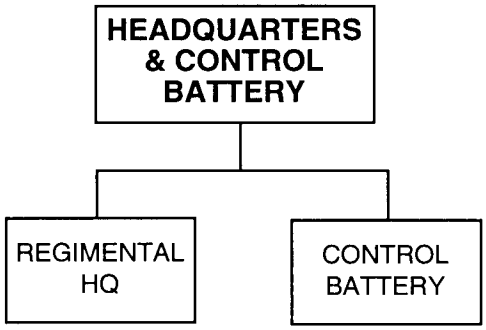
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Self-Propelled Artillery Regiment, TD (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP How Bn (x2)*	*122-mm MRL Bn*	*Target Acquisition Btry*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS									
152-mm SP Howitzer, 2S3 or 2S19		36							36
152-mm Laser-Guided Projectile Set		8							8
122-mm MRL, BM-21			18						18
ATGL, RPG-7V	4	12	6				4		26
SAM, Shoulder-Fired	3	36	18						57
TRUCKS									
ACRV, 1V110/1V153 (Btry FDC)*			3						3
ACRV, 1V111/1V153 (Bn FDC)*			1						1
Truck, Utility	6		1			1	1		9
Truck, Light	2			2		1		1	6
Truck, Medium	1	40	37	3		30	3	2	116
Truck, Decon, ARS-12U/14					3				3
Truck, Decon, DDA-53/66					1			1	2
Truck, POL (5,000-L)		8	3			6			17
Truck, Water (2,000-L)					2				2
Van, Hospital								1	1
Van, Maintenance	1	4	3	4		2	6		20
Van, Signal	2	8	4						14
Van, Survey				1					1
Ambulance		2	1					4	7
TRAILERS									
Trailer, Cargo, 1-Axle				1					1
Trailer, Cargo, 2-Axle	1	34	27			20	3		85
Trailer, Generator	2	4	2	2			2		12
Trailer, Kitchen	1	6	3	1				1	12
Trailer, POL (4,200-L)		8	3			6			17
Trailer, Water (900/1,200-L)	1	2	1	1	2	2		1	10
RADIOS									
VHF, Manpack, Low-Power	6	20	18	13		1	1	1	60
VHF, Portable, Low-Power	1								1
VHF, Vehicle Mount, Medium-Power	5	54	6	4	3				72
HF, Manpack, Low-Power	1				1				2
HF, Vehicle Mount, Medium-Power	5								5
HF/VHF, Vehicle Mount, Medium-Power	3	8	4						15
HF/VHF, Vehicle Mount, High-Power	1								1
Radio Relay, VHF/UHF	1								1
Warning Receiver	1	4	1	1					7
MISCELLANEOUS									
Sound Ranging Set				1					1
Rangefinder, Laser	1	14	7	2					24
Rangefinder, Laser, Binocular		18	9						27
Periscopic Aiming Circle	1	12	6	2					21
Night-Vision Sight (Aiming Circle)	1	12	6	2					21
GPS Receiver	1	64	32	4					101

* The 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

Headquarters and Control Battery, SP Arty Regt



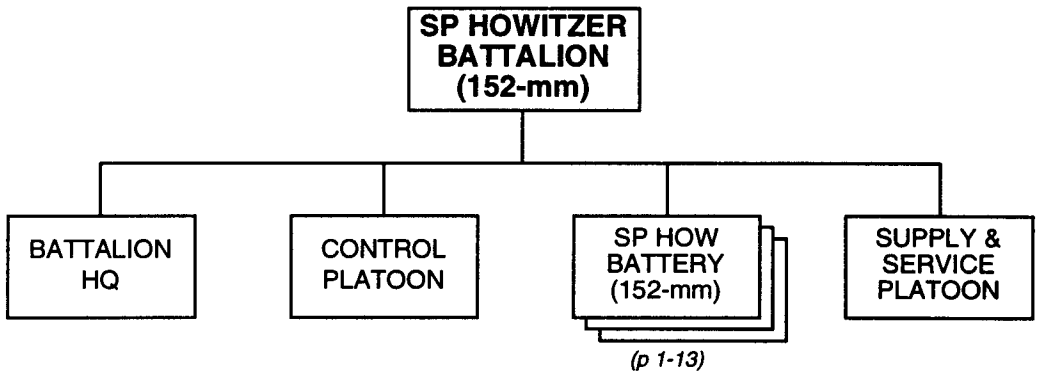
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-fired	3
ATGL, RPG-7V	4
Mobile Recon Post, PRP-3/4*	1
APC, BTR-60/70/80	1
ACV, BTR (R-145BM)	2
Truck, Utility	6
Truck, Light	2
Truck, Medium	1
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1
Van, Maintenance	1
Van, Signal	2
Trailer, Cargo, 2-Axle	1
Trailer, Generator	2
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	1

Equipment	Total
Periscopic Aiming Circle, PAB2A	1
Night-Vision Sight (Aiming Circle)	1
GPS Receiver	1
Radios:	
VHF, Manpack, Low-Power	6
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	5
HF, Manpack, Low-Power	1
HF, Vehicle Mount, Medium-Power	5
HF/VHF, Vehicle Mount, Medium-Power	3
HF/VHF, Vehicle Mount, High-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

152-mm Self-Propelled Howitzer Battalion, SP Arty Regt or MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

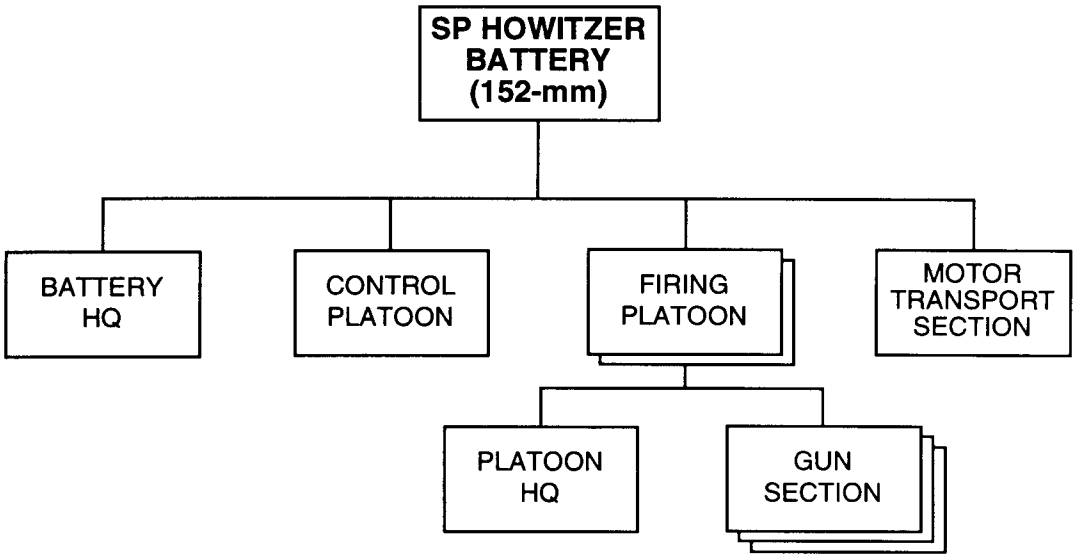
Equipment	Total
152-mm SP Howitzer, 2S3 or 2S19	18
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V13/1V13M/1V22 (Btry FDC)	3
ACRV, 1V14/1V14M/1V23 (Btry COP)	3
ACRV, 1V15/1V15M/1V24 (Bn COP)	1
ACRV, 1V16/1V16M/1V25 (Bn FDC)	1
Mobile Recon Post, PRP-3/4**	1
5.45-mm LMG, RPK-74	18
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Medium	20
Truck, POL (5,000-Liter)	4
Van, Maintenance	2
Van, Signal	4
Ambulance	1
Trailer, Cargo, 2-Axle	17

Equipment	Total
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	4
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	27
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all SP howitzer battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2S3/2S19), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

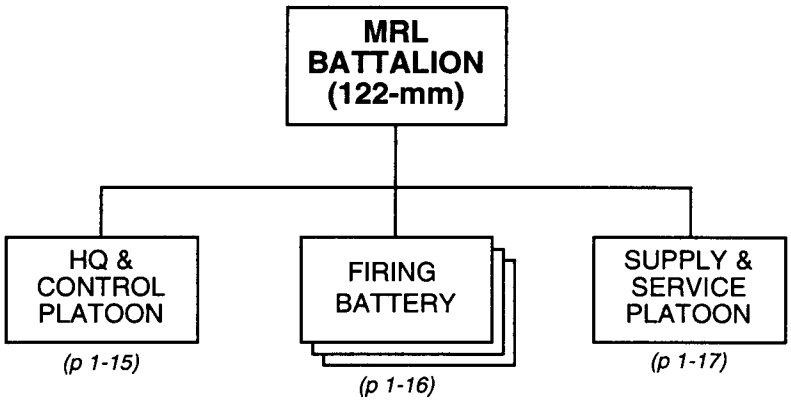
152-mm Self-Propelled Howitzer Battery, 152-mm SP How Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm SP Howitzer, 2S3 or 2S19	6
ACRV, 1V13/1V13M/1V22 (Btry FDC)	1
ACRV, 1V14/1V14M/1V23 (Btry COP)	1
5.45-mm LMG, RPK-74	6
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	3
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	8
HF/VHF, Vehicle Mount, Medium-Power	1

122-mm Multiple Rocket Launcher Battalion, SP Arty Regt or 122-mm MRL Regt or Corps



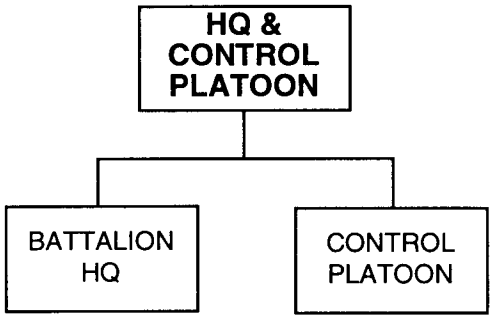
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm MRL, BM-21	18
ACRV, 1V18/1V152 (Btry COP)*	3
ACRV, 1V19/1V152 (Bn COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	3
ACRV, 1V111/1V153 (Bn FDC)*	1
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Medium	37
Truck, POL (5,000-Liter)	3
Van, Maintenance	3
Van, Signal	4
Ambulance	1
Trailer, Cargo, 2-Axle	27
Trailer, Generator	2

Equipment	Total
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	3
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	18
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

Headquarters and Control Platoon, 122-mm MRL Bn



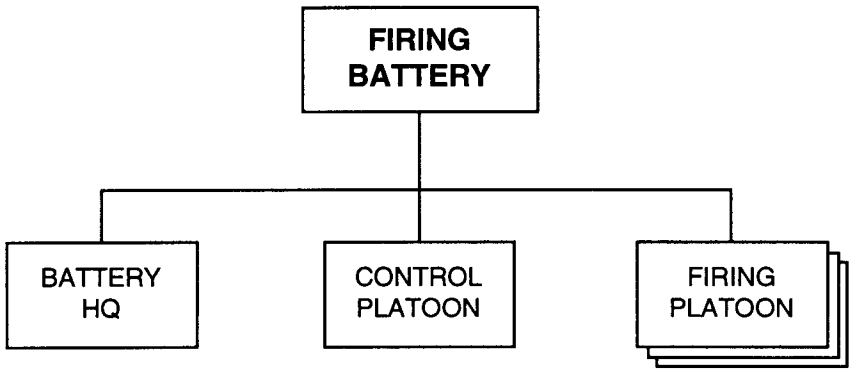
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACRV, 1V19/1V152 (Bn COP)*	1
ACRV, 1V111/1V153 (Bn FDC)*	1
Truck, Utility	1
Truck, Medium	1
Van, Signal	1
Ambulance	1
Trailer, Generator	1

Equipment	Total
Rangefinder, laser, 1D8/1D12	1
GPS Receiver	2
Radios:	
VHF, Manpack, Low-Power	5
HF/VHF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

Firing Battery, 122-mm MRL Bn



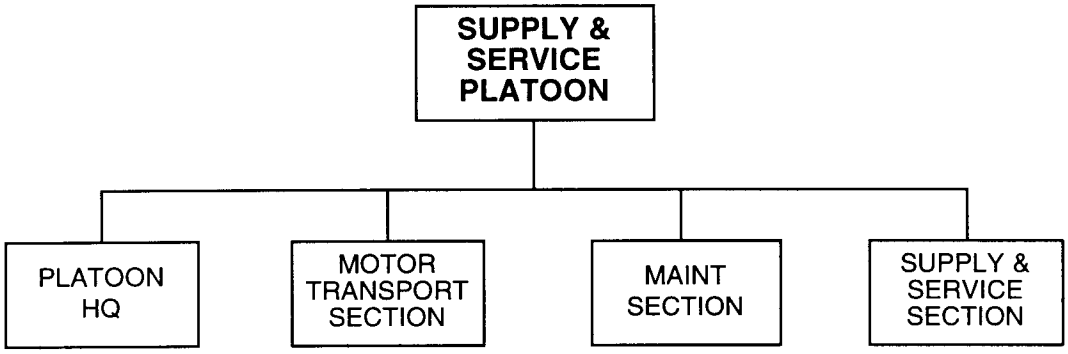
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm MRL, BM-21	6
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	1
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	6
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

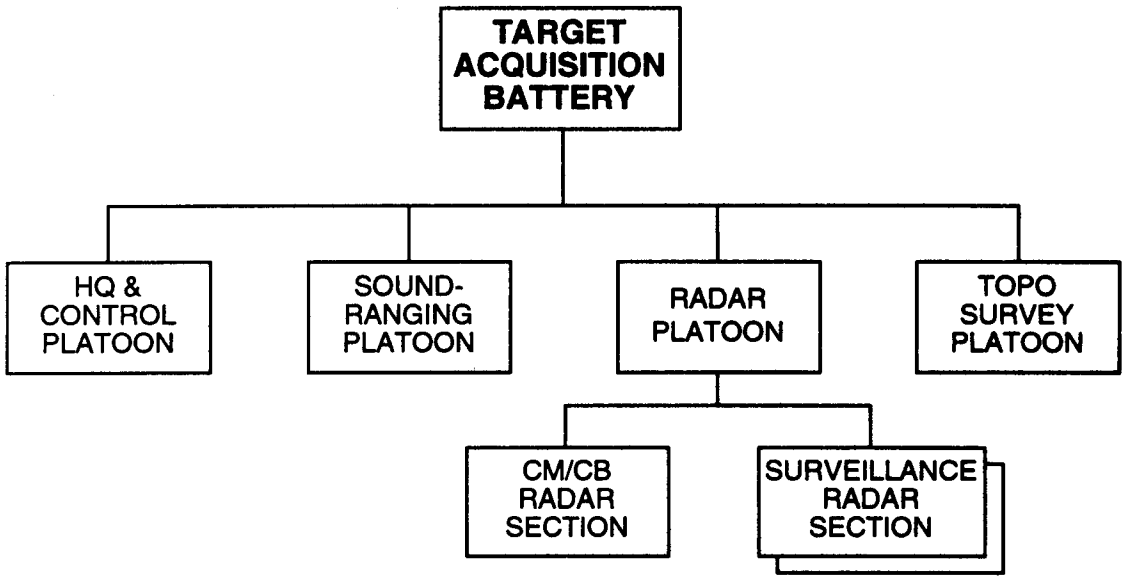
Supply and Service Platoon, 122-mm MRL Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Medium	18
Truck, POL (5,000-Liter)	3
Van, Maintenance	3
Trailer, Cargo, 2-Axle	18
Trailer, Generator	1
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	3
Trailer, Water (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

Target Acquisition Battery, SP Arty Regt



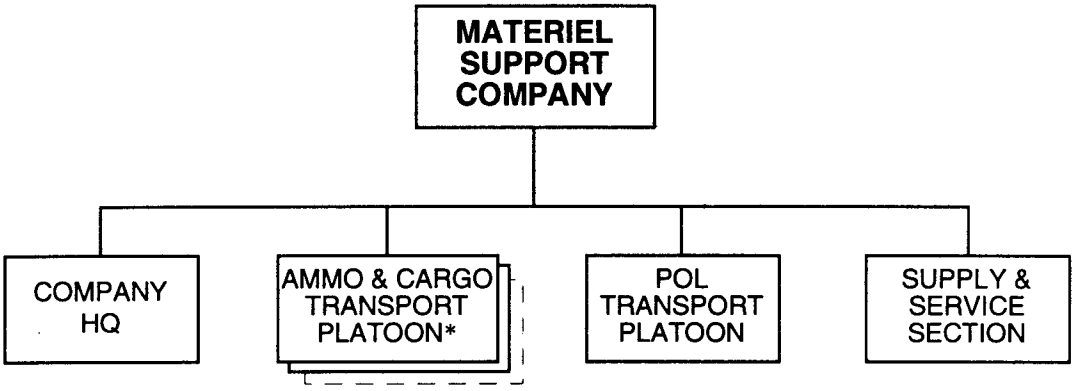
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	1
Mobile Recon Post, PRP-3/4*	1
APC, Radar, MT-LB (SNAR-10)**	1
APC, Radar, MT-LB (ARK-1)***	1
Sound-Ranging Set	1
Truck, Light	2
Truck, Medium	3
Van, Maintenance	4
Van, Survey	1
Trailer, Cargo, 1-Axle	1
Trailer, Generator	2

Equipment	Total
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	2
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	4
Radios:	
VHF, Manpack, Low-Power	13
VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.

Materiel Support Company, SP Arty Regt

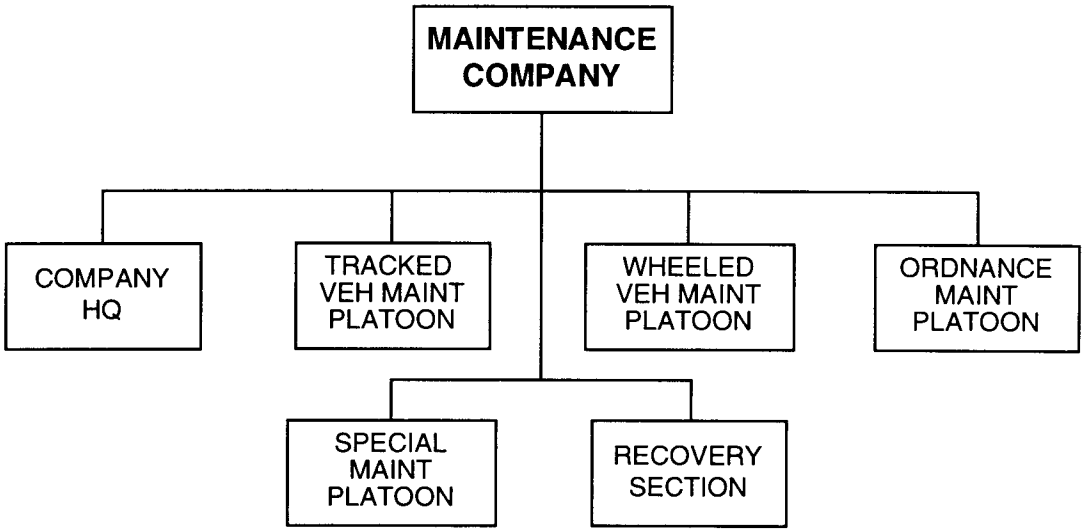


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
Truck, Utility	1
Truck, Light	1
Truck, Medium	45/30
Truck, POL (5,000-Liter)	6
Van, Maintenance	2
Trailer, Cargo, 2-Axle	30/20
Trailer, POL (4,200-Liter)	6
Trailer, Water (1,200-Liter)	2
Radio, VHF, Manpack, Low-Power	1

* The SP artillery regiment in the tank division has one less SP howitzer battalion than in the mechanized infantry division and thus requires less materiel support. Therefore, the materiel support company has only two ammunition and cargo transport platoons in the tank division; in the mechanized infantry division, it has three. Totals listed with multiple numbers (such as 30/20) reflect the numbers of that particular piece of equipment in this company in a mechanized infantry division or tank division, respectively.

Maintenance Company, SP Arty Regt

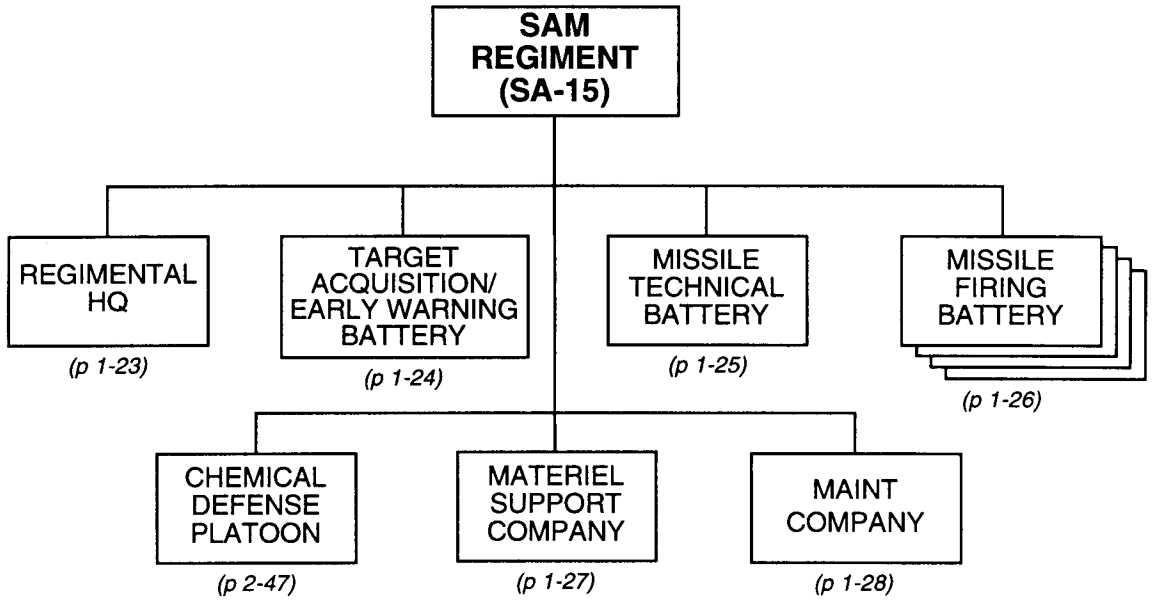


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATGL, RPG-7V	4
5.45-mm LMG, RPK-74	2
Truck, Utility	1
Truck, Medium	3
Van, Maintenance	8/6
Armored Recovery Vehicle	1
Trailer, Cargo, 2-Axle	3
Trailer, Generator	2
Radio, VHF, Manpack, Low-Power	1

* Totals listed with multiple numbers (such as 8/6) represent the numbers of that particular piece of equipment in this company in a mechanized infantry division or tank division, respectively. The SP artillery regiment in the tank division has one less SP howitzer battalion and thus requires less maintenance support.

SAM Regiment (SA-15), MID and TD



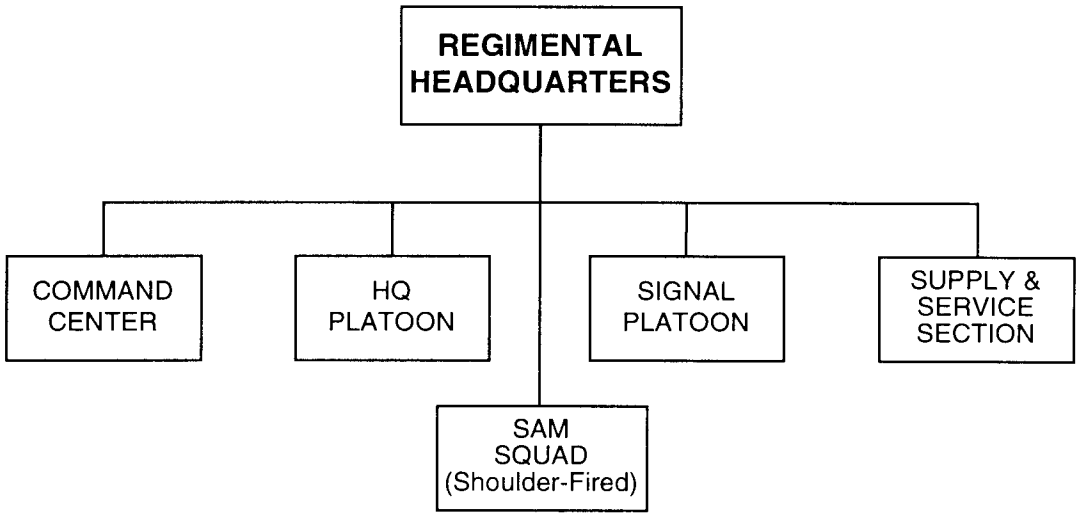
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SAM Regiment (SA-15), MID and TD (continued)

Principal Items of Equipment	*Regimental HQ*	*Tgt Acq/Early Warning Btry*	*Missile Technical Btry*	*Missile Firing Btry (x4)*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
ARMORED VEHICLES								
ACV, BTR-60 (PU-12)	1			4				5
Tgt Acq Radar Vehicle		2						2
Chemical Recon Vehicle, BRDM-2RKh/RKhM					3			3
WEAPONS								
SAM, SA-15/GAUNTLET TELAR*				16				16
SAM, Shoulder-fired	3		3	12				18
TRUCKS								
Truck, Utility	1	3	1			1	1	7
Truck, Light	4	1	6	8		1	3	23
Truck, Medium			4			22	3	29
Truck, Crane			2					2
Truck, Decon, ARS-12U/14					3			3
Truck, Decon, DDA-53/66					1			1
Truck, POL (5,000-L)						6		6
Truck, Water (2,000-L)					2			2
Van, Computer		1						1
Van, Maintenance		1				3	8	12
Van, Medium	2			4		4		10
Van, Missile Testing			5					5
Van, Radar		1						1
Van, Signal	4							4
Ambulance	2							2
TRAILERS								
Trailer, Cargo, 2-Axle		1	1	4		5	3	14
Trailer, Generator	2		1			3	7	13
Trailer, Kitchen	1	1	2	4		1	1	10
Trailer, POL (4,200-L)						6		6
Trailer, Van	4	1	1	4		2		12
Trailer, Water (1,200-L)					2	3	1	6
RADARS								
Radar, Aerial Surv/Tgt Acq, LONG TRACK		2						2
Radar, Height Finding, THIN SKIN		1						1
RADIOS								
VHF, Manpack, Low-Power	1	2	1	4		1	1	10
VHF, Portable, Low-Power			3					3
VHF, Portable, Very-Low-Power	1		1	4				6
VHF, Vehicle Mount, Medium-Power	1	3		24	3			31
HF, Manpack, Low-Power		2			1			3
HF/VHF, Vehicle Mount, Medium-Power	4							4
HF/VHF, Vehicle Mount, High-Power	2							2
Radio Relay, VHF/UHF	1							1
Warning Receiver	2			4				6
MISCELLANEOUS								
SA-15 Transloader (TELAR Chassis)				8				8

* The TELAR includes the SCRUM HALF fire control/target acquisition radar.

Regimental Headquarters, SAM Regt or 57-mm AA Gun Regt

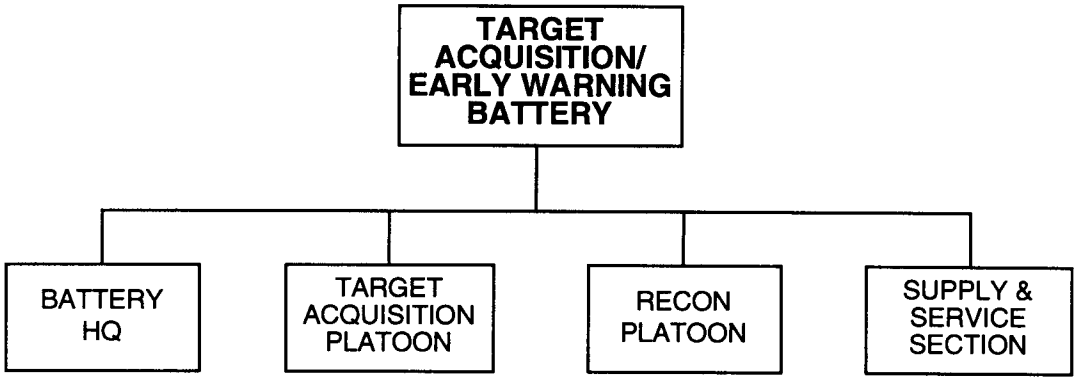


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-fired	3
ACV, BTR-60 (PU-12)	1
Truck, Utility	1
Truck, Light	4
Van, Medium	2
Van, Signal	4
Ambulance	2
Trailer, Generator	2
Trailer, Kitchen	1
Trailer, Van	4

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	4
HF/VHF, Vehicle Mount, High-Power	2
Radio Relay, VHF/UHF	1
Warning Receiver	2

Target Acquisition/Early Warning Battery, SAM Regt

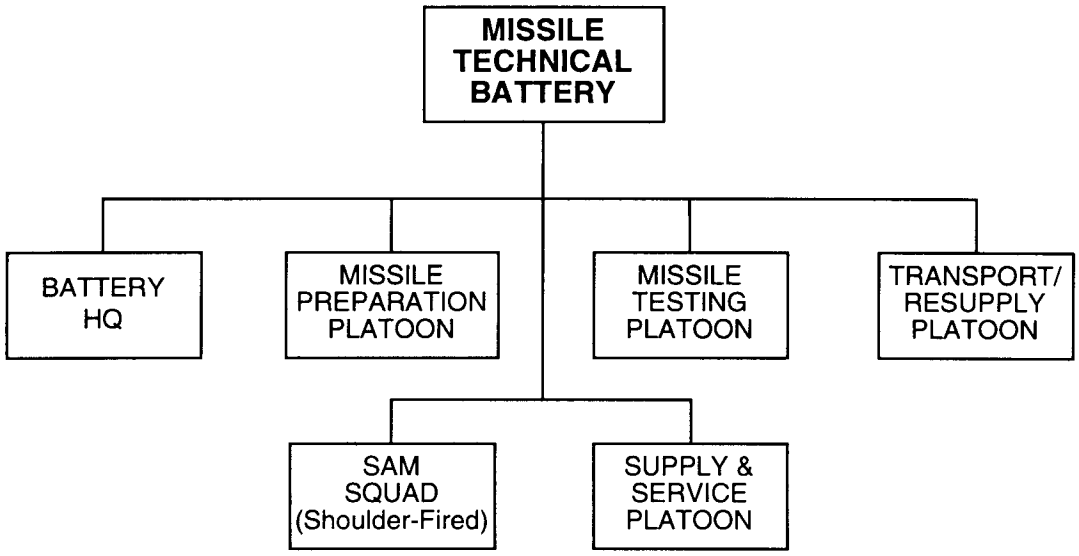


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Van, Radar	1
Target Acquisition Radar Vehicle	2
Truck, Utility	3
Truck, Light	1
Van, Computer	1
Van, Maintenance	1
Trailer, Cargo, 2-Axle	1
Trailer, Kitchen	1
Trailer, Van	1

Equipment	Total
Radars:	
Aerial Surveillance/Target Acquisition, LONG TRACK	2
Height Finding, THIN SKIN	1
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	2

Missile Technical Battery, SAM Regt (SA-15)

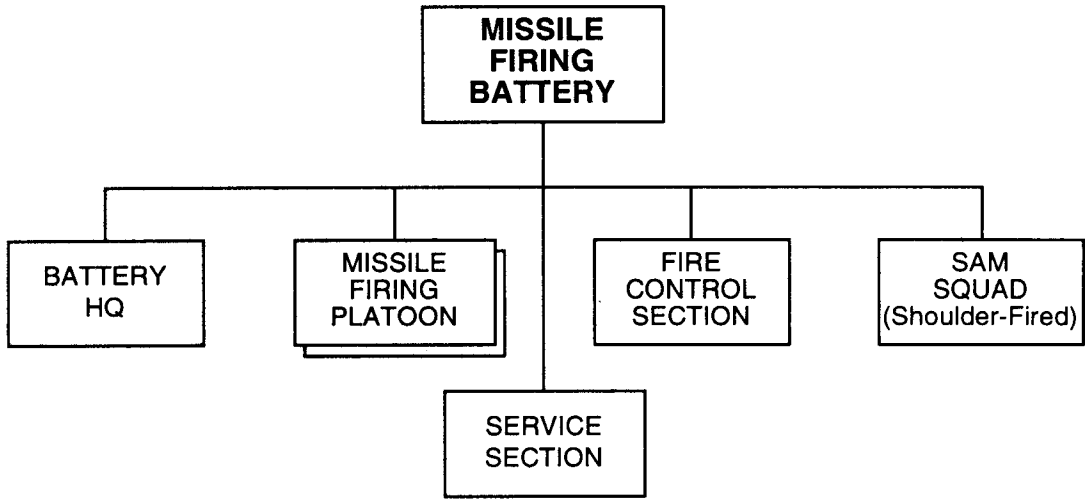


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Light	6
Truck, Medium	4
Truck, Crane	2
Van, Missile Testing	5
Trailer, Cargo, 2-Axle	1

Equipment	Total
Trailer, Generator	1
Trailer, Kitchen	2
Trailer, Van	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	3
VHF, Portable, Very-Low-Power	1

Missile Firing Battery, SAM Regt (SA-15) or Air Defense Bn, MIBR (Sep) and TBR (Sep)

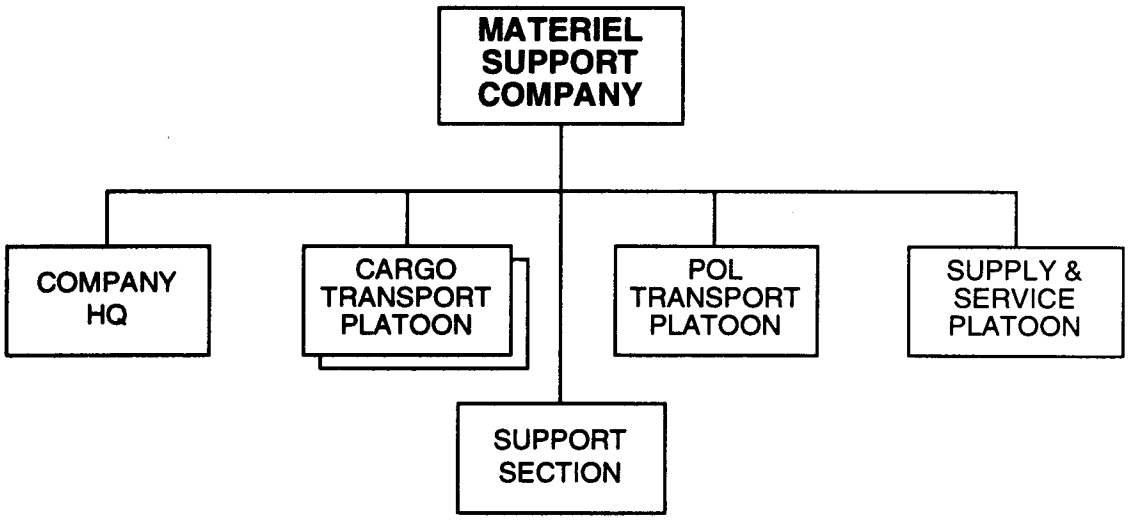


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, SA-15/GAUNTLET TELAR*	4
SAM, Shoulder-Fired	3
ACV, BTR-60 (PU-12)	1
Truck, Light	2
Van, Medium	1
SA-15 Missile Transloader (TELAR Chassis)	2
Trailer, Cargo, 2-Axle	1
Trailer, Kitchen	1
Trailer, Van	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

* The TELAR includes the SCRUM HALF fire control/target acquisition radar.

Materiel Support Company,
SAM Regt

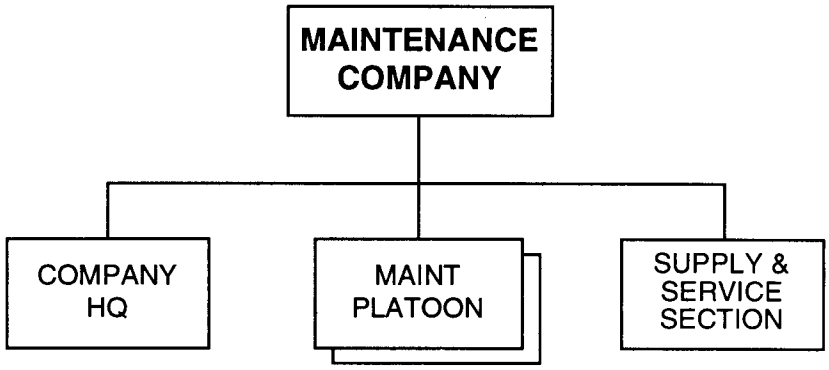


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Light	1
Truck, Medium	22
Truck, POL (5,000-Liter)	6
Van, Maintenance	3
Van, Medium	4
Trailer, Cargo, 2-Axle	5

Equipment	Total
Trailer, Generator	3
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	6
Trailer, POL (1,200-Liter)	2
Trailer, Van	2
Trailer, Water (1,200-Liter)	3
Radio, VHF, Manpack, Low-Power	1

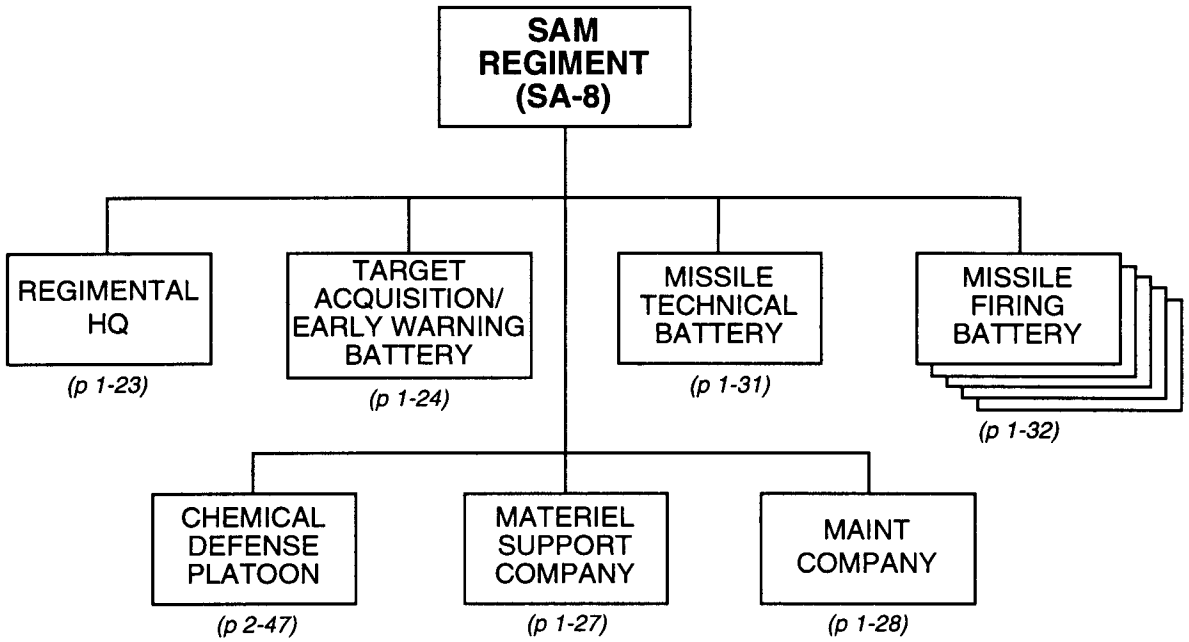
Maintenance Company, SAM Regt



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Light	3
Truck, Medium	3
Van, Maintenance	8
Trailer, Cargo, 2-Axle	3
Trailer, Generator	7
Trailer, Kitchen	1
Trailer, Water (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

SAM Regiment (SA-8), MID and TD



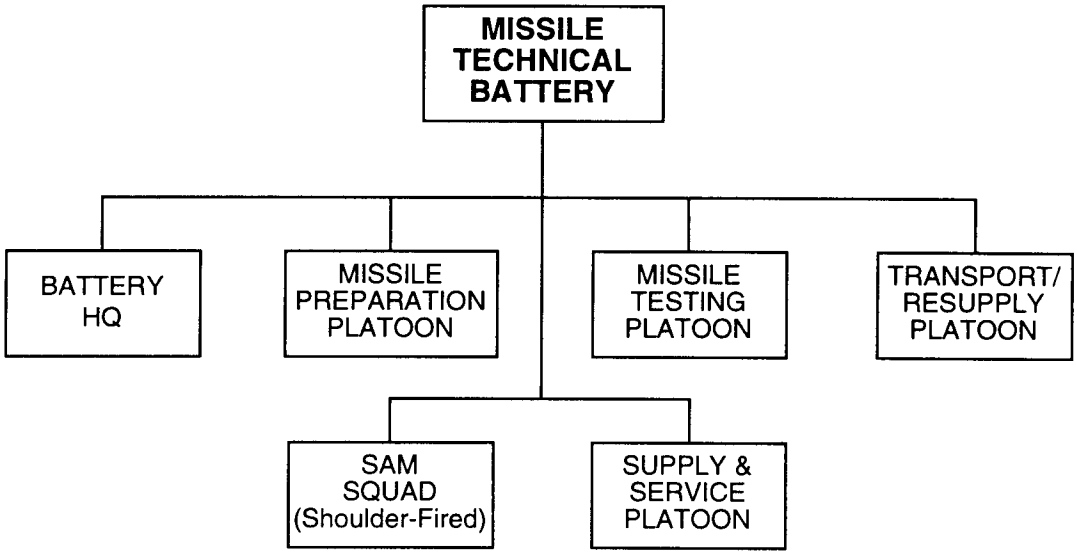
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SAM Regiment (SA-8), MID and TD (continued)

Principal Items of Equipment	*Regimental HQ*	*Tgt Acq/Early Warning Btry*	*Missile Technical Btry*	*Missile Firing Btry (x5)*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
ARMORED VEHICLES								
ACV, BTR-60 (PU-12)	1			5				6
Tgt Acq Radar Vehicle		2						2
Chemical Recon Vehicle, BRDM-2RKh/RKhM					3			3
WEAPONS								
SAM, SA-8/GECKO TELAR*				20				20
SAM, Shoulder-Fired	3		3	15				21
TRUCKS								
Truck, Utility	1	3	1			1	1	7
Truck, Light	4	1	6	10		1	3	25
Truck, Medium			4			22	3	29
Truck, Crane			2					2
Truck, Decon, ARS-12U/14					3			3
Truck, Decon, DDA-53/66					1			1
Truck, POL (5,000-L)						6		6
Truck, Water (2,000-L)					2			2
Van, Computer		1						1
Van, Maintenance		1				3	8	12
Van, Medium	2			5		4		11
Van, Missile Testing			5					5
Van, Radar		1						1
Van, Signal	4							4
Ambulance	2							2
TRAILERS								
Trailer, Cargo, 2-Axle		1	1	5		5	3	15
Trailer, Generator	2		1			3	7	13
Trailer, Kitchen	1	1	2	5		1	1	11
Trailer, POL (4,200-L)						6		6
Trailer, POL (1,200-L)						2		2
Trailer, Van	4	1	1	5		2		13
Trailer, Water (1,200-L)					2	3	1	6
RADARS								
Radar, Aerial Surv/Tgt Acq, LONG TRACK		2						2
Radar, Height Finding, THIN SKIN		1						1
RADIOS								
VHF, Manpack, Low-Power	1	2	1	5		1	1	11
VHF, Portable, Low-Power			3					3
VHF, Portable, Very-Low-Power	1		1	5				7
VHF, Vehicle Mount, Medium-Power	1	3		30	3			37
HF, Manpack, Low-Power		2			1			3
HF/VHF, Vehicle Mount, Medium-Power	4							4
HF/VHF, Vehicle Mount, High-Power	2							2
Radio Relay, VHF/UHF	1							1
Warning Receiver	2			5				7
MISCELLANEOUS								
SA-8 Transloader (TELAR Chassis)				10				10

* The TELAR includes the LAND ROLL fire control/target acquisition radar.

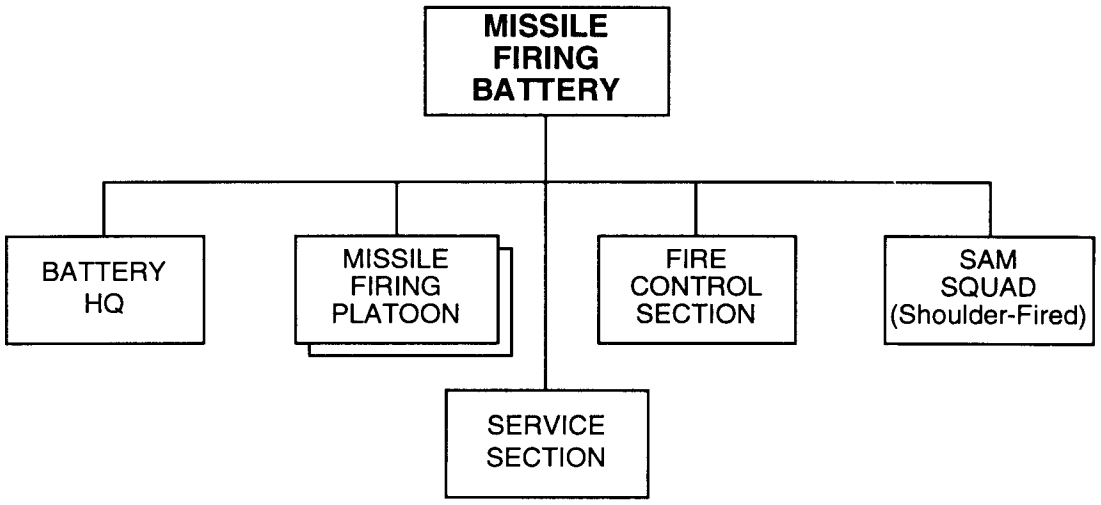
Missile Technical Battery, SAM Regt (SA-8)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Light	6
Truck, Medium	4
Truck, Crane	2
Van, Missile Testing	5
Trailer, Cargo, 2-Axle	1
Trailer, Generator	1
Trailer, Kitchen	2
Trailer, Van	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	3
VHF, Portable, Very-Low-Power	1

Missile Firing Battery, SAM Regt (SA-8)



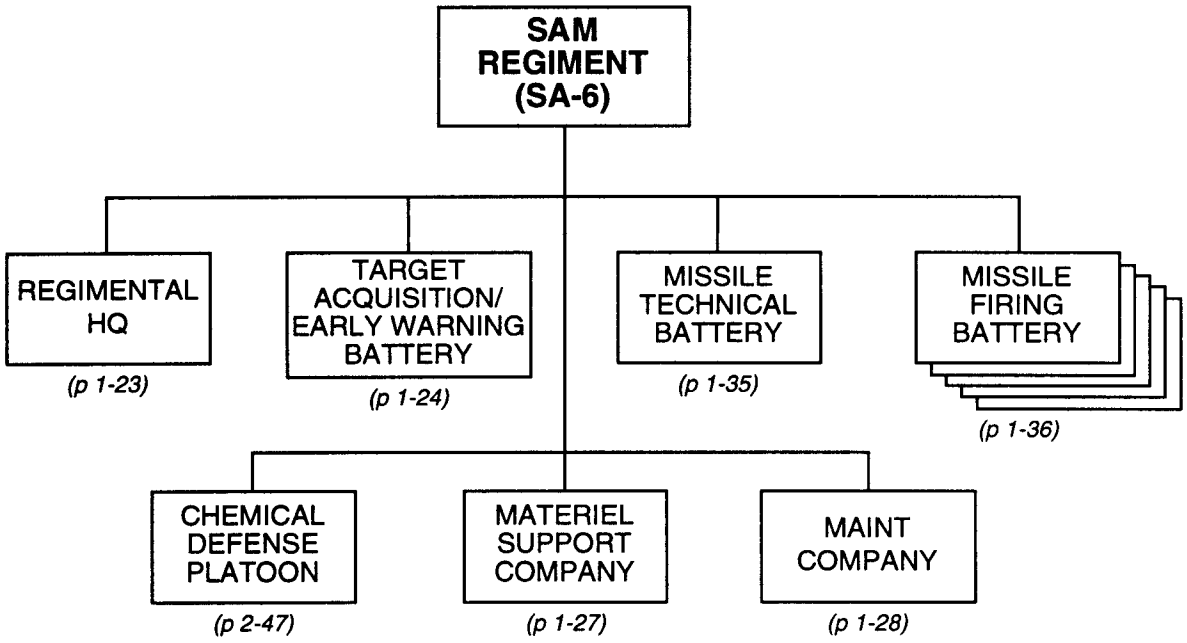
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR-60 (PU-12)	1
SAM, SA-8/GECKO TELAR*	4
SA-8 Missile Transloader (TELAR Chassis)	2
SAM, Shoulder-Fired	3
Truck, Light	2
Van, Medium	1
Trailer, Cargo, 2-Axle	1

Equipment	Total
Trailer, Kitchen	1
Trailer, Van	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

* The TELAR includes the LAND ROLL fire control/target acquisition radar.

SAM Regiment (SA-6), MID and TD



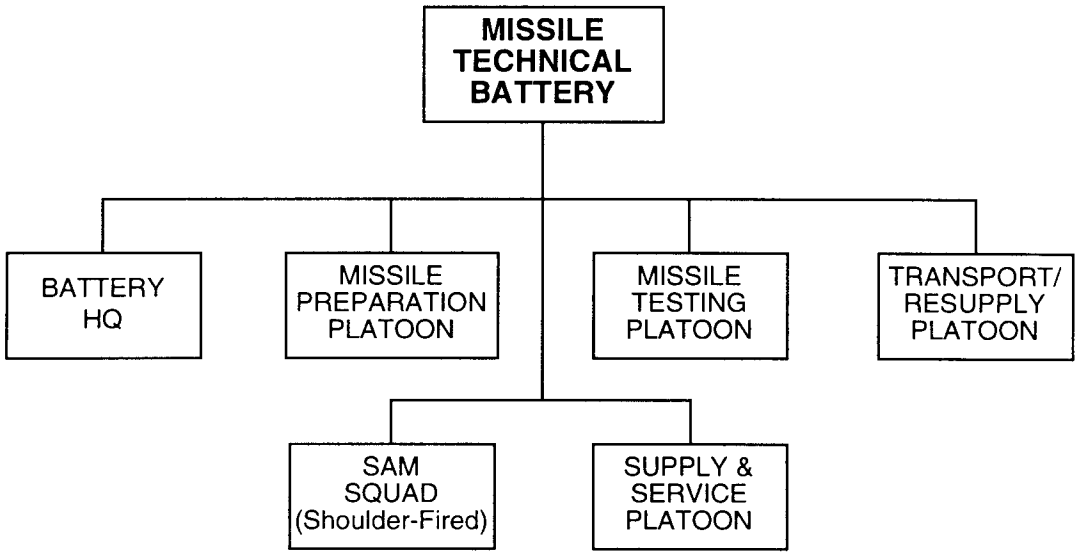
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SAM Regiment (SA-6), MID and TD (continued)

Principal Items of Equipment	*Regimental HQ*	*Tgt Acq/Early Warn Btry*	*Missile Technical Btry*	*Missile Firing Btry (x5)*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
ARMORED VEHICLES								
ACV, BTR-60 (PU-12)	1							1
ACV, BRDM-2U				5				5
Fire Control Radar Vehicle (TEL Chassis)				5				5
Tgt Acq Radar Vehicle		2						2
Chemical Recon Vehicle, BRDM-2RKh/RKhM					3			3
WEAPONS								
SAM, SA-6/GAINFUL TEL/TELAR*				20				20
SAM, Shoulder-Fired	3		3	15				21
TRUCKS								
Truck, Utility	1	3	1			1	1	7
Truck, Light	4	1	6	10		1	3	25
Truck, Medium			5			22	3	30
Truck, Crane			2					2
Truck, Decon, ARS-12U/14					3			3
Truck, Decon, DDA-53/66					1			1
Truck, POL (5,000-L)						6		6
Truck, Water (2,000-L)					2			2
Van, Computer		1						1
Van, Maintenance		1				3	8	12
Van, Medium	2			5		4		11
Van, Missile Testing			5					5
Van, Radar		1						1
Van, Signal	4							4
Ambulance	2							2
TRAILERS								
Trailer, Cargo, 2-Axle		1	1	5		5	3	15
Trailer, Generator	2		1			3	7	13
Trailer, Kitchen	1	1	2	5		1	1	11
Trailer, POL (4,200-L)						6		6
Trailer, POL (1,200-L)						2		2
Trailer, Van	4	1	1	5		2		13
Trailer, Water (1,200-L)					2	3	1	6
RADARS								
Radar, Aerial Surv/Tgt Acq, LONG TRACK		2						2
Radar, Fire Control, STRAIGHT FLUSH				5				5
Radar, Height Finding, THIN SKIN		1						1
RADIOS								
VHF, Manpack, Low-Power	1	2	1	5		1	1	11
VHF, Portable, Low-Power			3					3
VHF, Portable, Very-Low-Power	1		1	5				7
VHF, Vehicle Mount, Medium-Power	1	3		30	3			37
HF, Manpack, Low-Power		2			1			3
HF/VHF, Vehicle Mount, Medium-Power	4							4
HF/VHF, Vehicle Mount, High-Power	2							2
Radio Relay, VHF/UHF	1							1
Warning Receiver	2			5				7
MISCELLANEOUS								
SA-6 Missile Transloader (Medium Truck)			5	10				15
SA-6 Canister Transporter (Tractor-Trailer)			15					15

* The SA-6b TELAR includes the FIRE DOME fire control radar, which is not present on the SA-6a TEL.

Missile Technical Battery, SAM Regt (SA-6)

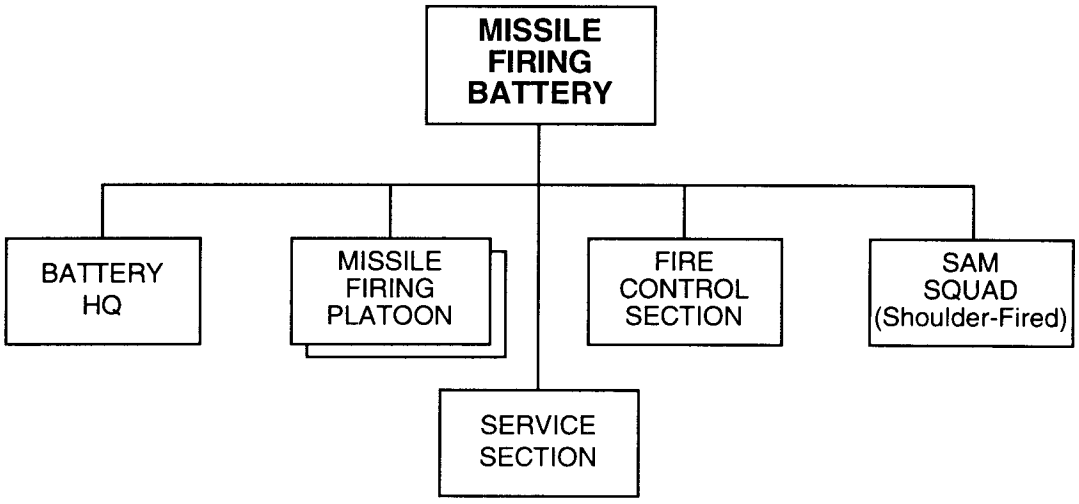


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Light	6
Truck, Medium	5
Truck, Crane	2
Van, Missile Testing	5
SA-6 Canister Transporter (Tractor-Trailer)	15
SA-6 Missile Transloader (Medium Truck)	5

Equipment	Total
Trailer, Cargo, 2-Axle	1
Trailer, Generator	1
Trailer, Kitchen	2
Trailer, Van	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	3
VHF, Portable, Very-Low-Power	1

Missile Firing Battery, SAM Regt (SA-6)



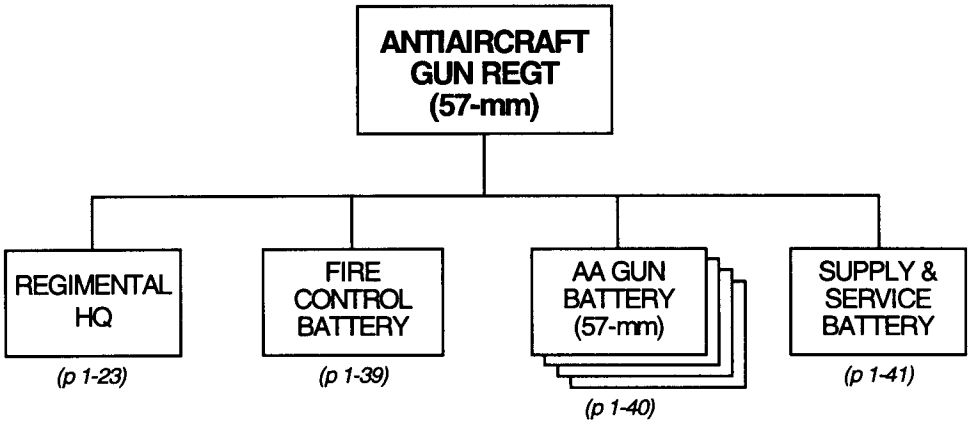
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BRDM-2U	1
SAM, SA-6a/GAINFUL TEL or SA-6b/GAINFUL TELAR*	4
Fire Control Radar Vehicle (TEL Chassis)	1
SA-6 Missile Transloader (Medium Truck)	2
SAM, Shoulder-Fired	3
Truck, Light	2
Van, Medium	1

Equipment	Total
Trailer, Cargo, 2-Axle	1
Trailer, Kitchen	1
Trailer, Van	1
Radar, Fire Control, STRAIGHT FLUSH	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

* The SA-6b system includes the FIRE DOME fire control radar. By replacing one SA-6a TEL with an SA-6b TELAR, this battery can double its capability to acquire and engage targets.

57-mm Antiaircraft Gun Regiment, MID and TD or Air Defense Div

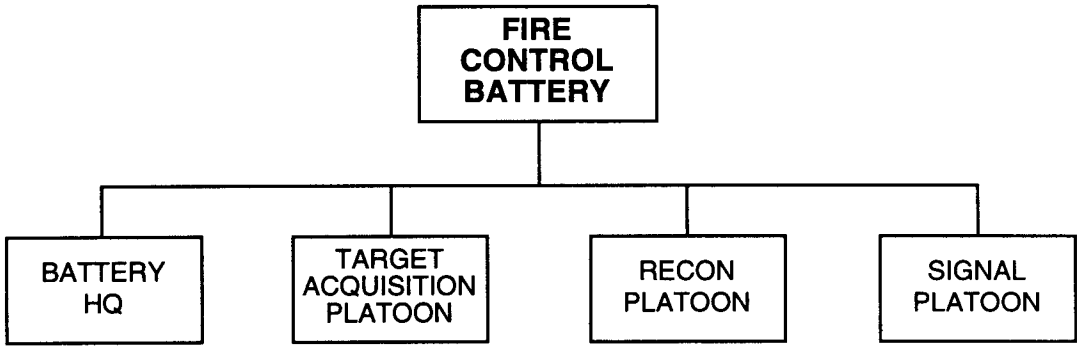


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57-mm Antiaircraft Gun Regiment, MID and TD (continued)

Principal Items of Equipment	*Regimental HQ*	*Fire Control Btry*	*57-mm AA Gun Btry (x4)*	*Supply & Service Btry*	*TOTAL*
ARMORED VEHICLES					
ACV, BTR-60 (PU-12)	1	1			2
Chem Recon Vehicle, BRDM-2RKh		1			1
WEAPONS					
57-mm AA Gun, S-60			24		24
SAM, Shoulder-Fired	3		12		15
TRUCKS					
Truck, Utility	1	3	4	2	10
Truck, Light	4		4		8
Truck, Medium			36	33	69
Truck, Crane				1	1
Truck, Decon, DDA-53/66				1	1
Truck, POL (5,000-L)			4	2	6
Truck, Water (2,000-L)				1	1
Van, Medium	2				2
Van, Maintenance				4	4
Van, Radar		2	4		6
Van, Signal	4	1			5
Ambulance	2			1	3
TRAILERS					
Trailer, Cargo, 2-Axle				5	5
Trailer, Generator	2	1	4	2	9
Trailer, Kitchen	1		4	3	8
Trailer, POL (4,200-L)				2	2
Trailer, POL (1,200-L)			4		4
Trailer, Van	4				4
Trailer, Water (900-/1,200-L)			4	3	7
RADARS					
Radar, Aerial Surv/Tgt Acq, FLAT FACE		2			2
Radar, Fire Control, FLAP WHEEL			4		4
RADIOS					
VHF, Manpack, Low-Power	1	1	24	2	28
VHF, Portable, Very-Low-Power	1		12		13
VHF, Vehicle Mount, Medium-Power	1	1			2
HF, Manpack, Low-Power				1	1
HF/VHF, Vehicle Mount, Medium-Power	4	3			7
HF/VHF, Vehicle Mount, High-Power	2	1			3
Radio Relay, VHF/UHF	1				1
Warning Receiver	2	1	4		7

Fire Control Battery, 57-mm AA Gun Regt

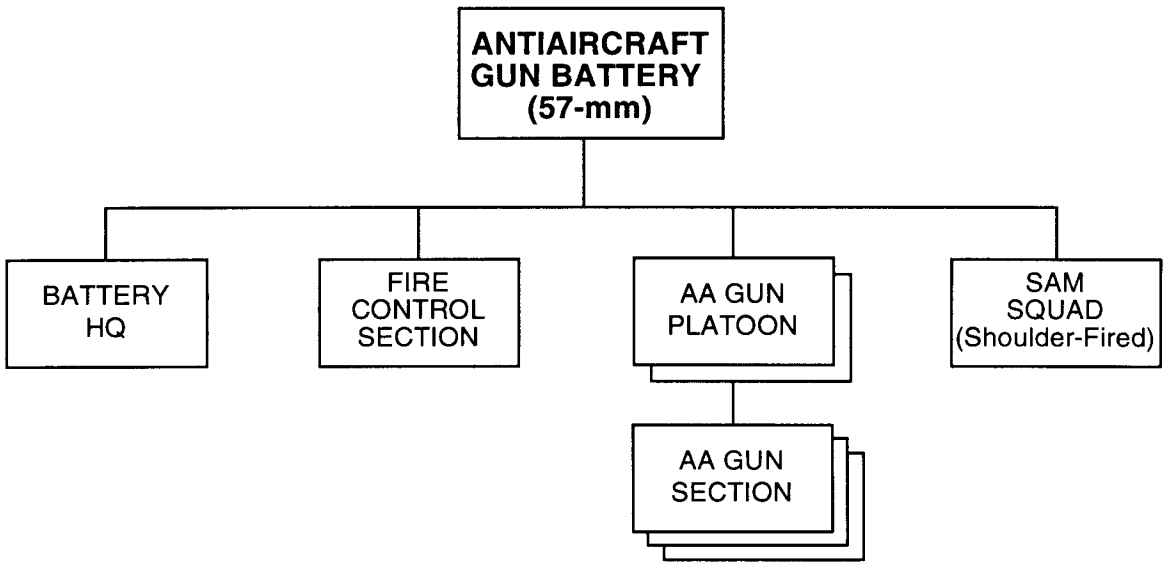


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	3
Chemical Recon Vehicle, BRDM-2RKh	1
Van, Radar	2
Van, Signal	1
Trailer, Generator	1
Radar, Aerial Surveillance/Target Acquisition, FLAT FACE	2

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
HF/VHF, Vehicle Mount, High-Power	1
Warning Receiver	1

57-mm Antiaircraft Gun Battery, 57-mm AA Gun Regt



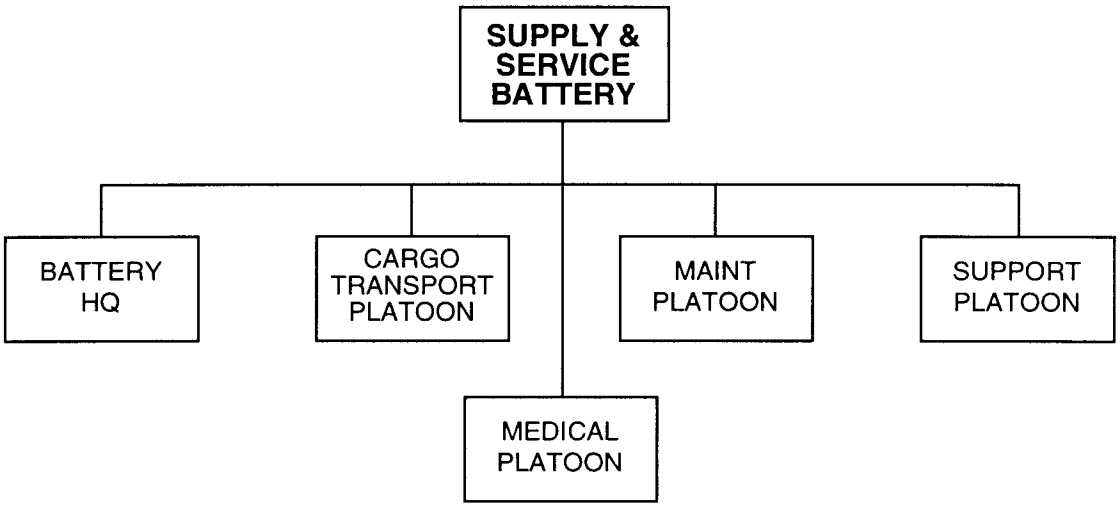
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
57-mm AA Gun, S-60	6
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Light	1
Truck, Medium	9
Truck, POL (5,000-Liter)	1
Van, Radar*	1
Trailer, Generator	1

Equipment	Total
Trailer, Kitchen	1
Trailer, POL (1,200-Liter)	1
Trailer, Water (900-Liter)	1
Radar, Fire Control, FLAP WHEEL*	1
Radios:	
VHF, Manpack, Low-Power	6
VHF, Portable, Very-Low-Power	3
Warning Receiver	1

* Some units may have the older FIRE CAN fire control radar and the PUAZO-6 fire control director with an optical rangefinder. If so, the battery would have two additional medium trucks as prime movers for this combination of towed fire control systems, but it would not have the truck-mounted FLAP WHEEL radar van.

Supply and Service Battery, 57-mm AA Gun Regt

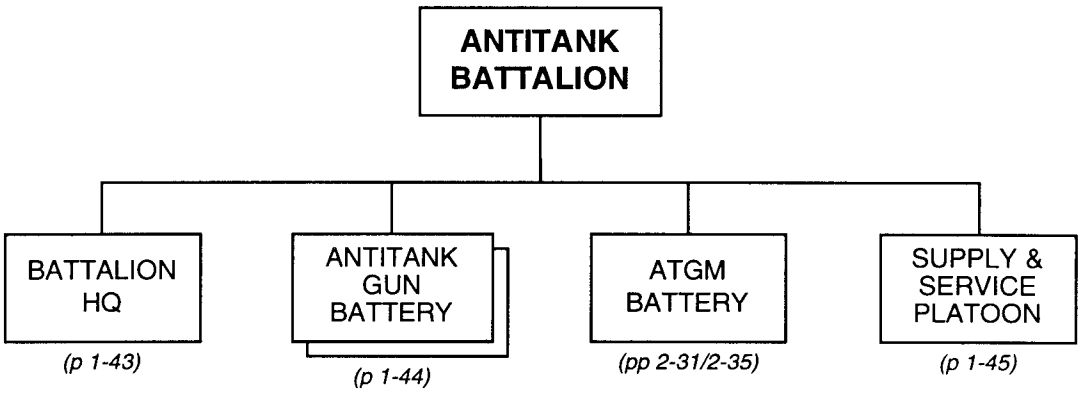


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	2
Truck, Medium	33
Truck, Crane	1
Truck, Decon, DDA-53/66	1
Truck, POL (5,000-Liter)	2
Truck, Water (2,000-Liter)	1
Van, Maintenance	4
Ambulance	1

Equipment	Total
Trailer, Cargo, 2-Axle	5
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (1,200-Liter)	3
Radios:	
VHF, Manpack, Low-Power	2
HF, Manpack, Low-Power	1

Antitank Battalion, MID



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL	9-12
100/125-mm Antitank Gun, MT-12/2A45M	12
ATGL, RPG-7V	9-12
ACV, BTR (R-145BM)/BRDM-2U	1
ACV, BRDM-2U	4
Mobile Recon Post, PRP-3/4**	1
Prime Mover, MT-LBT	14
Truck, Utility	3
Truck, Light	4
Truck, Medium	12-13
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	10
Trailer, Generator	1

Equipment	Total *
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	0-1
Trailer, POL (1,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	3
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	3
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	29-32
HF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* Equipment totals can vary, depending on whether the battalion's ATGM battery has 9 or 12 ATGM vehicles.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

Battalion Headquarters,
AT Bn, MID or MIBR

BATTALION HEADQUARTERS

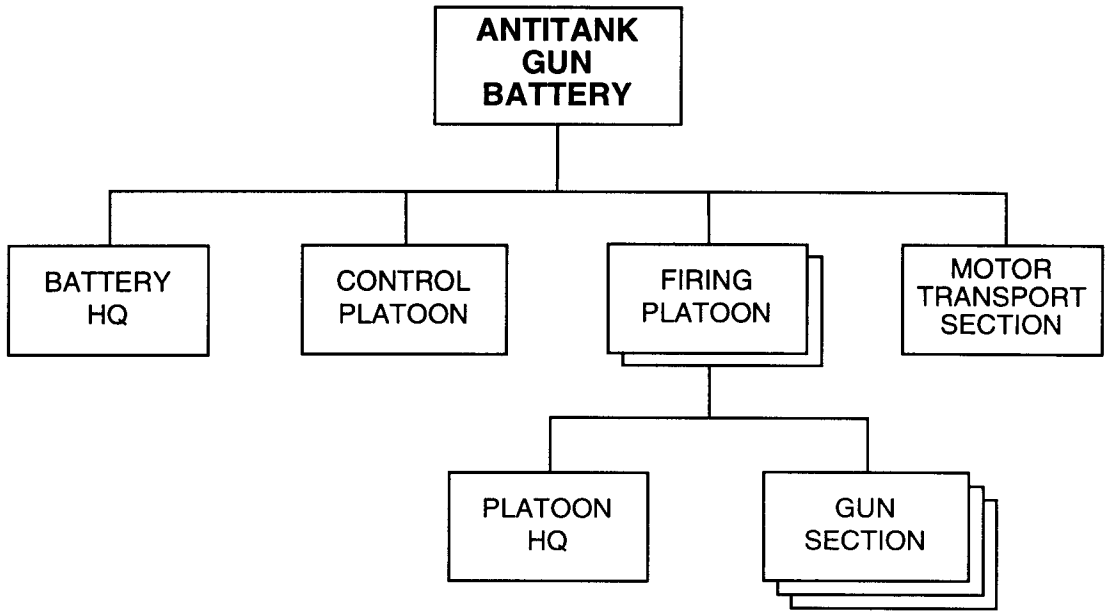
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)/BRDM-2U	1
Mobile Recon Post, PRP-3/4*	1
Truck, Utility	2

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	2
HF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	2
Radio Relay, VHF/UHF	1
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

Antitank Gun Battery, AT Bn

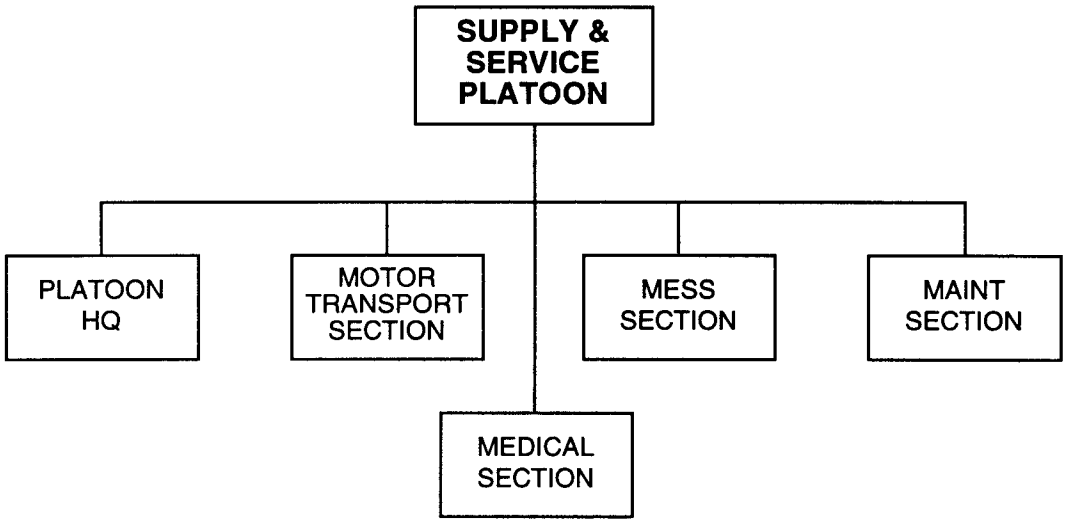


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
100/125-mm Antitank Gun, MT-12/2A45M*	6
Prime Mover, MT-LBT	7
Truck, Medium	1
Trailer, Cargo, 2-Axle	1
Rangefinder, Laser, 1D8/1D12	1
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	7

* Antitank gun batteries in mechanized infantry brigades, mechanized infantry divisions, and separate mechanized infantry brigades are more likely to have 100-mm guns. Similarly organized batteries at corps, army, or army group level are more likely to have 125-mm guns.

Supply and Service Platoon, AT Bn, MID



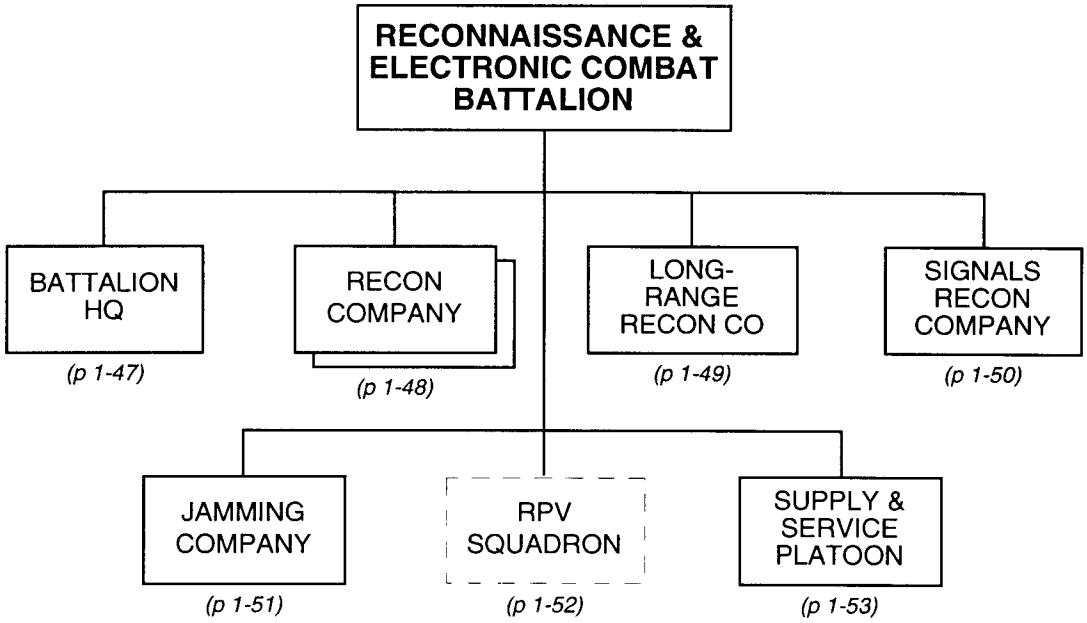
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Light	4
Truck, Medium	7
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1

Equipment	Total
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	0-1 *
Trailer, POL (1,200-Liter)	2
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	1

* POL requirements vary, depending on whether the battalion's ATGM battery has 9 or 12 ATGM vehicles.

Reconnaissance and Electronic Combat Battalion, MID and TD



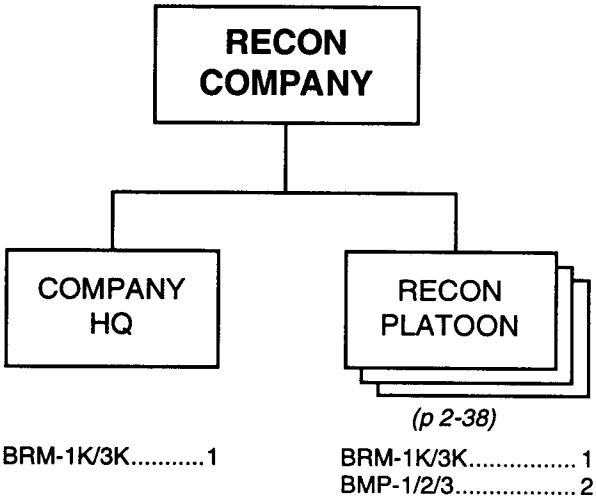
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Reconnaissance and Electronic Combat Battalion, MID and TD (continued)

Principal Items of Equipment	*Battalion HQ*	*Recon Co (x2)*	*LR Recon Co*	*Signals Recon Co*	*Jamming Co*	*RPV Sqdn*	*Supply & Svc Plt*	*TOTAL*
ARMORED VEHICLES								
IFV, BMP-1/2/3	2	12						14
APC, BTR-60/70/80			6					6
ACV, BRM-1K/3K*	2	8						10
ACV, BTR (R-145BM)	2							2
ACV, BRDM-2U			1					1
ASC, BRDM-2			6					6
WEAPONS								
ATGL, RPV-7V	3	18	6					27
SAM, Shoulder-Fired						6		6
RPV AND ASSOCIATED VEHICLES								
RPV, Shmel-1						8		8
RPV Launch Vehicle						4		4
RPV Recovery Vehicle						2		2
Launcher Support Vehicle						4		4
Van, Mission Control						1		1
ELECTRONIC COMBAT SYSTEMS								
Radar Intercept/DF, NRS-1/POLE DISH				3				3
Radio Intercept/DF, HF/VHF				7	3			10
Communications Jammer, VHF, R-330P					6			6
Communications Jammer, HF					3			3
Proximity Fuze Jammer, SPR-1/2					9			9
TRUCKS								
Truck, Utility	2			1		4	2	9
Truck, Light				1	2	2		5
Truck, Medium						1	9	10
Truck, POL (5,000-L)						1	3	4
Truck, Water (2,000-L)							1	1
Van, Command	2			1	1			4
Van, Maintenance				1	1	1	1	4
Van, Signal	6							6
Ambulance							1	1
TRAILERS								
Trailer, Generator	1			7	7	5	1	21
Trailer, Kitchen				1	1	1	4	7
Trailer, POL (4,200-L)						1	3	4
Trailer, POL (1,200-L)							1	1
Trailer, Water (900-L)				1	1	1	1	4
RADARS								
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE			1					1
RADIOS								
VHF, Manpack, Low-Power	2	20		7		13	3	45
VHF, Portable, Low-Power			13				1	14
VHF, Vehicle Mount, Medium-Power	6	20	13		22	4		65
HF, Manpack, Low-Power	2	2	4	4				12
HF, Vehicle Mount, Medium-Power	1	2	3		1	1		8
HF/VHF, Vehicle Mount, Medium-Power	2			4				6
HF/VHF, Vehicle Mount, High-Power	1			1				2
Radio Relay, VHF/UHF	1							1
Radio Telegraph	6							6
Warning Receiver	2	2	1	1	1	1		8

*This system includes the TALL MIKE battlefield surveillance radar.

Reconnaissance Company, Recon and EC Bn



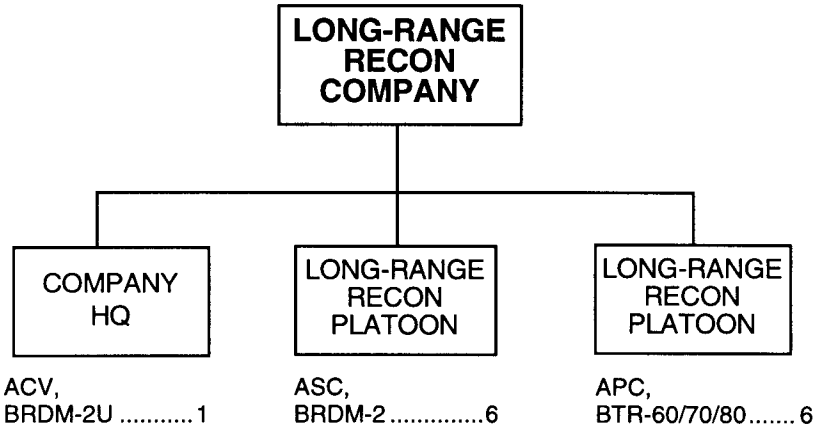
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BRM-1K/3K*	4
IFV, BMP-1/2/3**	6
9-mm Pistol, PM	31
5.45-mm Assault Rifle, AK-74	31
5.45-mm LMG, RPK-74	9
40-mm Under-Barrel Grenade Launcher, GP-25/30	15
ATRL, RPG-22/26	10
ATGL, RPG-7V	9
Flamethrower, RPO	9

Equipment	Total
Night-Vision Goggles	10
Night-Vision Sight (Small Arms)	10
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	10
HF, Manpack, Low-Power	1
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

* This system includes the TALL MIKE battlefield surveillance radar.
** The mix of ACVs and IFVs can vary.

Long-Range Reconnaissance Company, Recon and EC Bn

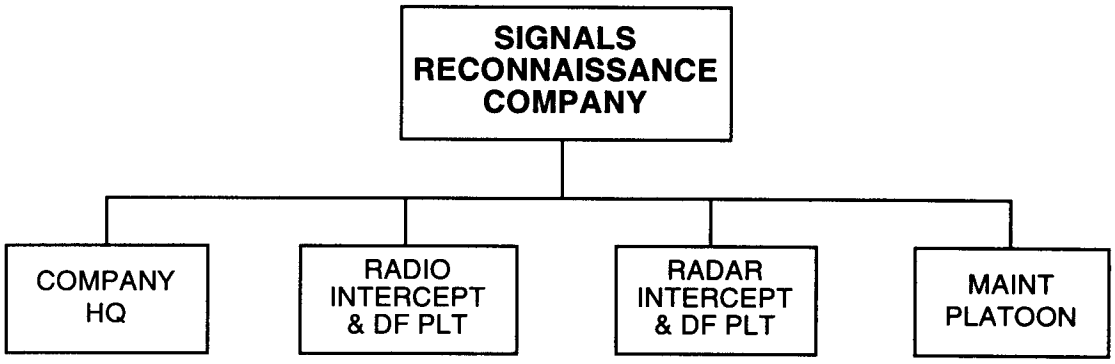


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BRDM-2U	1
ASC, BRDM-2	6
APC, BTR-60/70/80	6
9-mm Pistol, PM	21
5.45-mm Assault Rifle, AK-74	46
5.45-mm LMG, RPK-74	13
7.62-mm Sniper Rifle, SVD	2
40-mm Under-Barrel Grenade Launcher, GP-25/30	19
ATGL, RPG-7V	6
ATRL, RPG-22/26	13
Flamethrower, RPO	6

Equipment	Total
Night-Vision Goggles	13
Night-Vision Sight (Small Arms)	13
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Portable, Low-Power	13
VHF, Vehicle Mount, Medium-Power	13
HF, Manpack, Low-Power	4
HF, Vehicle Mount, Medium-Power	3
Warning Receiver	1

Signals Reconnaissance Company, Recon and EC Bn

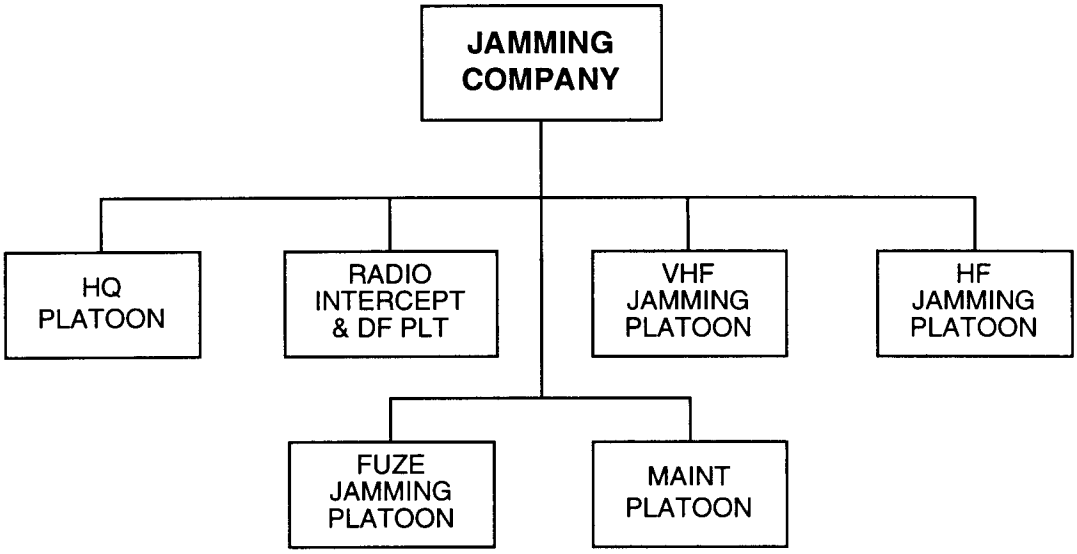


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radio Intercept/Direction Finder, HF/VHF, R-381T*	7
Radar Intercept/Direction Finder, NRS-1/POLE DISH	3
Truck, Utility	1
Truck, Light	1
Van, Command	1
Van, Maintenance	1
Trailer, Generator	7
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	7
HF/VHF, Vehicle Mount, Medium-Power	4
HF/VHF, Vehicle Mount, High-Power	1
HF, Manpack, Low-Power	4
Warning Receiver	1

* Some units may have older van-mounted radio intercept and DF systems rather than the R-381T versions mounted on modified MT-LBu armored, tracked vehicles.

Jamming Company, Recon and EC Bn



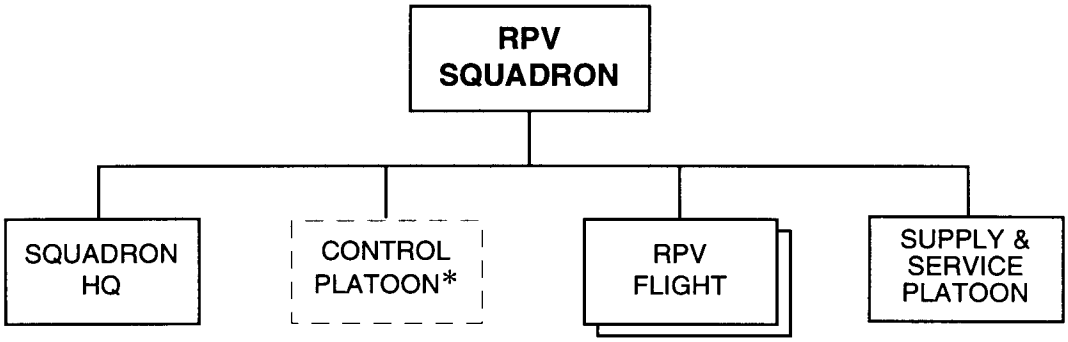
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radio Intercept/Direction Finder, HF/VHF	3
Communications Jammer, VHF, R-330P*	6
Communications Jammer, HF*	3
Proximity Fuze Jammer, SPR-1/2	9
Truck, Light	2
Van, Command	1
Van, Maintenance	1

Equipment	Total
Trailer, Generator	7
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Vehicle Mount, Medium-Power	22
HF, Vehicle-Mount, Medium Power	1
Warning Receiver	1

* Some units may have older van-mounted jammers rather than these versions mounted on modified MT-LBu armored, tracked vehicles.

RPV Squadron, Recon and EC Bn or Tgt Acq Regt



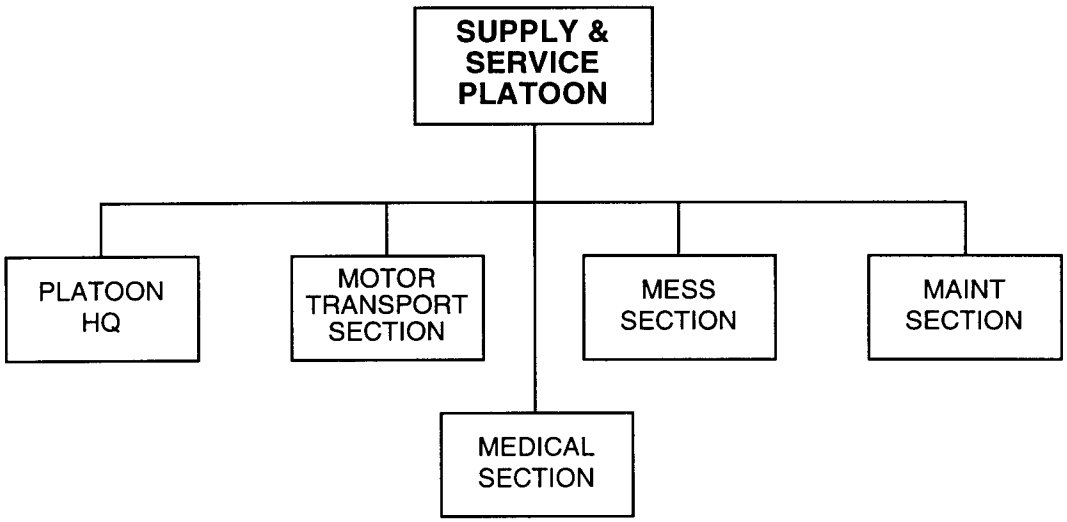
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
RPV Launch Vehicle	4
RPV, Shmel-1	8
RPV Recovery Vehicle	2
Launcher Support Vehicle	4
Van, Mission Control	1
SAM, Shoulder-Fired	6
Truck, Utility	4
Truck, Light	2
Truck, Medium	1
Truck, POL (5,000-Liter)	1
Van, Maintenance	1

Equipment	Total
Trailer, Generator	5
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	13
VHF, Vehicle Mount, Medium-Power	4
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

* The launch vehicle for the Shmel-1 also serves as the ground control station. The employment of an alternate short-range RPV may require the use of an additional control element and vehicles.

Supply and Service Platoon, Recon and EC Bn

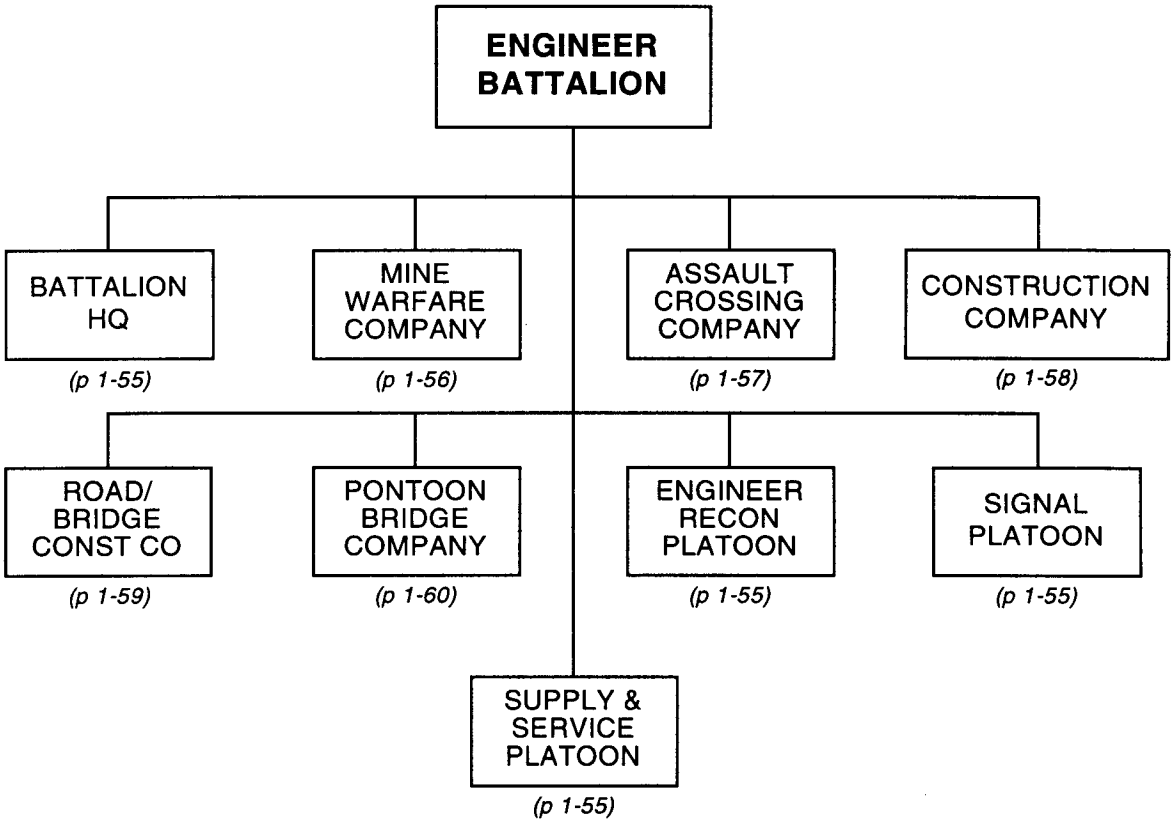


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	30
ATRL, RPG-22/26	1
Truck, Utility	2
Truck, Medium	9
Truck, POL (5,000-Liter)	3
Truck, Water (2,000-Liter)	1
Van, Maintenance	1
Ambulance	1

Equipment	Total
Trailer, Generator	1
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	3
Trailer, POL (1,200-Liter)	2
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	3
VHF, Portable, Low-Power	1

Engineer Battalion, MID and TD or Engr Bde or Corps



Principal Items of Equipment	*Battalion HQ*	*Mine Warfare Co*	*Assault Crossing Co*	*Construction Co*	*Road/Bridge Const Co*	*Pontoon Bridge Co*	*Engineer Recon Plt*	*Signal Plt*	*Supply & Service Plt*	*TOTAL*
ENGINEER EQUIPMENT										
Bridge, Tank-Launched					4					4
Bridge, Truck-Launched					8					8
Tracked Amphibian, K-61/PTS			12							12
Trailer, Amphibious, PKP			6							6
Tracked Ferry, GSP/PMM-2*			6							6
Bridge, PMP Center**						16				16
Bridge, PMP Ramp**						2				2
Assault Boat			10							10
Powerboat**						6				6
Piledriver Set, KMS				1						1

* With the PMM-2, there are a total of 8 ferries rather than 6.

** The PMM-2 amphibious bridge/ferry may replace the PMP pontoon bridge. With the PMM-2, there is no need for powerboats.

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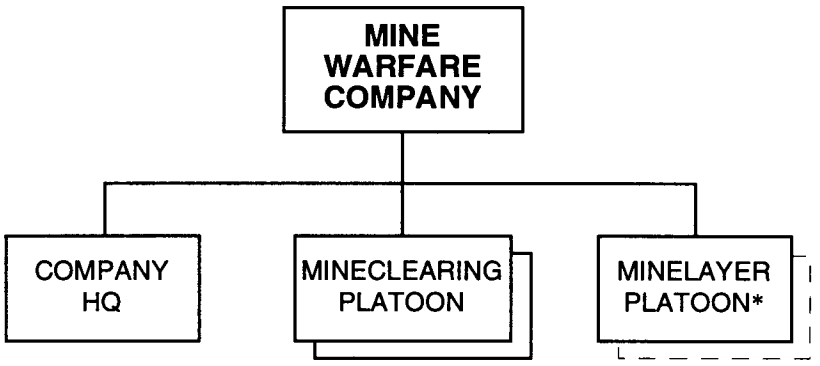
Engineer Battalion, MID and TD or Engr Bde or Corps (continued)

Principal Items of Equipment	*Battalion HQ*	*Mine Warfare Co*	*Assault Crossing Co*	*Construction Co*	*Road/Bridge Const Co*	*Pontoon Bridge Co*	*Engineer Recon Plt*	*Signal Plt*	*Supply & Service Plt*	*TOTAL*
ENGINEER EQUIPMENT (continued)										
Minelayer, GMZ		3								3
Minelayer, UMZ*		0/3								0/3
Mineclearer, MTK/MTK-2		2								2
Mine Detector, DIM		2					1			3
Engineer Recon Vehicle, IRM							2			2
Armored Engineer Tractor, IMR		2								2
Ditching Machine, BTM/MDK				4						4
Route-Clearing Vehicle, BAT/PKT				6	2					8
Tractor				2						2
Truck, Sawmill					1					1
Trailer, Saw					1					1
Grader					2					2
Concrete Mixer					1					1
Truck, Water Purification				1						1
ARMORED VEHICLES										
APC, BTR-60/70/80							3			3
ACV, BTR (R-145BM)		1								1
ACV, BRDM-2U			1							1
WEAPONS										
ATRL, RPG-22/26*		3/4					5			8/9
SAM, Shoulder-Fired			3		3	3				9
TRUCKS										
Truck, Utility	2			1	1	2	2	1	1	10
Truck, Medium*	1	5/8	2	13	2		1	1	2	27/30
Truck, Heavy**						6				6
Truck, Crane			1							1
Truck, Crane Shovel				2	1					3
Truck, Dump				1	2					3
Truck, POL (5,000-Liter)									8	8
Van, Maintenance									4	4
Van, Medium									1	1
Van, Signal	1							1		2
TRAILERS										
Trailer, Cargo, 1-Axle	1	2			1					4
Trailer, Cargo, 2-Axle			1	1					1	3
Trailer, Compressor			1							1
Trailer, Generator				1	1			1	1	4
Trailer, Kitchen		1	1	1	1	1				5
Trailer, POL (4,200-Liter)									10	10
Trailer, Water (900-Liter)		1	1	1	1	1				5
RADIOS										
VHF, Manpack, Low-Power									4	4
VHF, Vehicle Mount, Medium-Power*		8/11	3	10	14	4	3			42/45
HF, Manpack, Low-Power*	1	3/4	1	1	1	1	3			11/12
HF, Vehicle Mount, Medium-Power		1								1
HF/VHF, Vehicle Mount, Medium-Power	1							1		2
HF/VHF, Vehicle Mount, High-Power	1							1		2
Warning Receiver								1		1

* Totals listed with multiple numbers (such as 3/4) reflect the numbers of that particular piece of equipment in a mechanized infantry or tank division, respectively. Engineer battalions of an engineer brigade or corps may have either number.

** The PMM-2 amphibious bridge/ferry may replace the PMP pontoon bridge. With the PMM-2, there is no need for heavy trucks that carry or tow powerboats.

Mine Warfare Company, Engr Bn

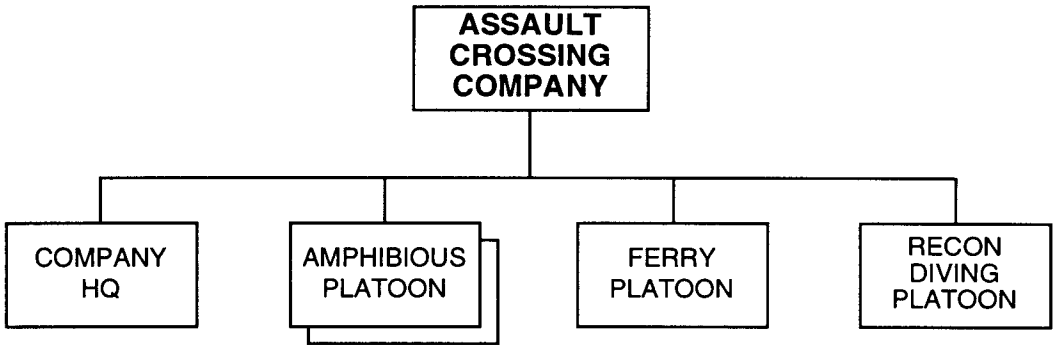


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ACV, BTR (R-145BM)	1
ATRL, RPG-22/26	3/4
Armored Engineer Tractor, IMR	2
Mineclearer, MTK/MTK-2	2
Minelayer, GMZ	3
Minelayer, UMZ	0/3
Mine Detector, DIM	2
Truck, Medium	5/8
Trailer, Cargo, 1-Axle	2
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Vehicle Mount, Medium-Power	8/11
HF, Manpack, Low-Power	3/4
HF, Vehicle Mount, Medium-Power	1

* In the engineer battalion of a mechanized infantry or tank ***division***, this company may have a second minelayer platoon equipped with the truck-mounted UMZ. This is in addition to the GMZ-equipped minelayer platoon already present in this company in a separate mechanized or tank brigade and at division level. Equipment totals with multiple numbers (such as 0/3) reflect the number of that particular piece of equipment in a company with one or two minelayer platoons respectively.

Assault Crossing Company, Engr Bn



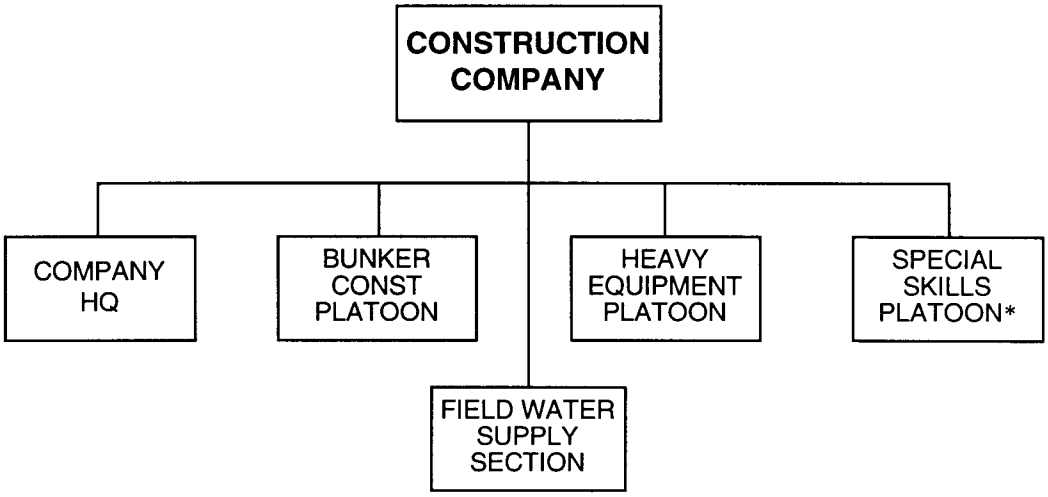
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BRDM-2U	1
SAM, Shoulder-Fired	3
Truck, Medium	2
Truck, Crane	1
Tracked Amphibian, K-61/PTS	12
Tracked Ferry, GSP/PMM-2	6/8 *
Assault Boat	10
Trailer, Amphibious, PKP	6

Equipment	Total
Trailer, Cargo, 2-Axle	1
Trailer, Compressor	1
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	1

* Two GSP heavy amphibious ferry vehicles make up one ferry. Thus the assault crossing company actually has 12 half-ferries. With the newer PMM-2 system, 8 PMM-2 vehicles can form 8 ferries.

Construction Company, Engr Bn



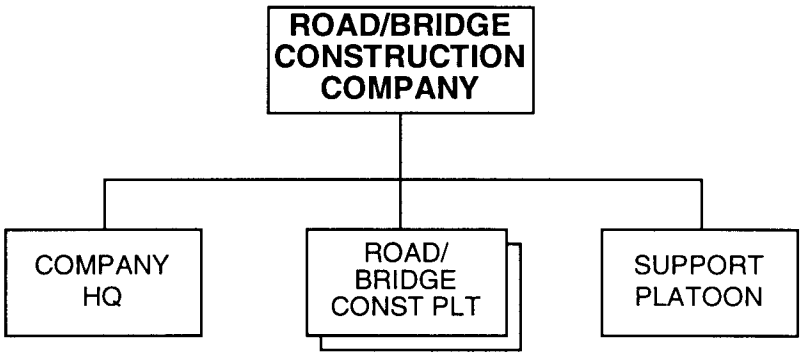
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Medium	13
Truck, Crane Shovel	2
Truck, Dump	1
Truck, Water Purification	1
Ditching Machine, BTM/MDK	4
Route-Clearing Vehicle, BAT/PKT	6
Piledriver Set, KMS	1
Tractor	2

Equipment	Total
Trailer, Cargo, 2-Axle	1
Trailer, Generator	1
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Vehicle Mount, Medium-Power	10
HF, Manpack, Low-Power	1

* The special skills platoon contains engineers that perform work such as electrical, plumbing, and carpentry.

Road/Bridge Construction Company, Engr Bn



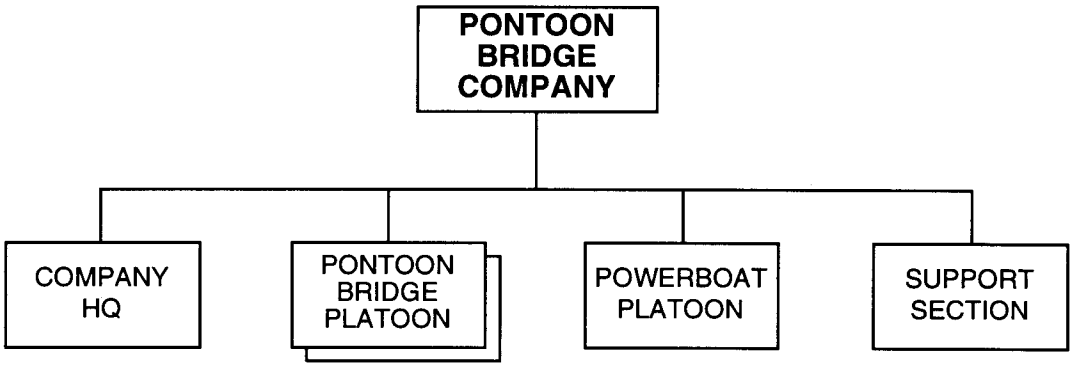
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Medium	2
Truck, Crane Shovel	1
Truck, Dump	2
Truck, Sawmill	1
Bridge, Tank-Launched	4
Bridge, Truck-Launched, TMM*	8
Route-Clearing Vehicle, BAT/PKT	2
Grader	2

Equipment	Total
Concrete Mixer	1
Trailer, Cargo, 1-Axle	1
Trailer, Generator	1
Trailer, Kitchen	1
Trailer, Saw	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Vehicle Mount, Medium-Power	14
HF, Manpack, Low-Power	1

* The eight truck-launched bridge spans make up two bridge sets.

Pontoon Bridge Company, Engr Bn or Pontoon Bridge Bn



PRINCIPAL ITEMS OF EQUIPMENT

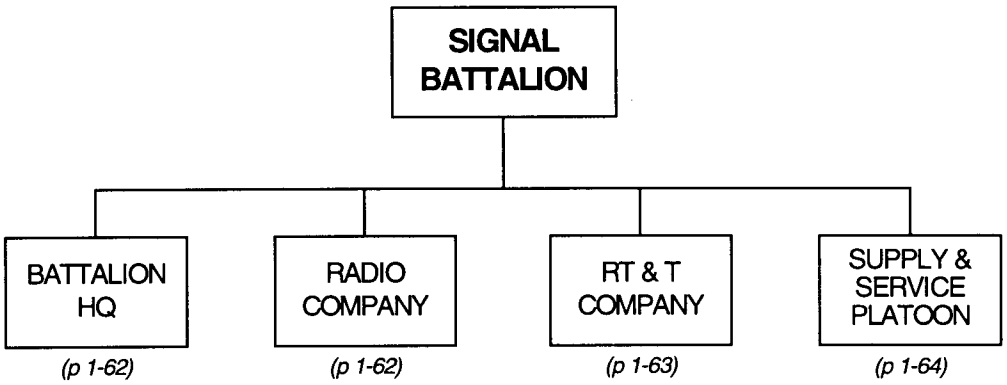
Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	2
Truck, Heavy*	6
Bridge, PMP Center**	16
Bridge, PMP Ramp**	2
Powerboat	6

Equipment	Total
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Vehicle Mount, Medium-Power	4
HF, Manpack, Low-Power	1

* These heavy trucks either carry or tow the powerboats, depending on the type of boat.

** A full bridge set consists of 32 center and 4 ramp sections. The half-set held by the engineer battalion can make up a bridge (119 meters of 60-ton bridge or 191 meters of 20-ton bridge) or several rafts. The PMM-2 amphibious bridge/ferry system may replace the PMP pontoon bridge. With the PMM-2, there is no need for power boats or the heavy trucks.

Signal Battalion, MID and TD or MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	8
Truck, Utility	12
Truck, Light	7
Truck, Medium	9
Truck, POL (5,000-Liter)	3
Van, Maintenance	4
Van, Signal	33
Ambulance	1
Motorcycle	13
Trailer, Cargo, 1-Axle	10
Trailer, Generator	10
Trailer, Kitchen	2
Trailer, POL (4,200-Liter)	3
Trailer, Water (900-Liter)	1

Equipment	Total
Radios:*	
VHF, Manpack, Low-Power	20
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, High-Power	8
HF/VHF, Vehicle Mount, Medium-Power	7
HF, Manpack, Low-Power	6
HF, Vehicle Mount, Medium-Power	8
Radio Relay Station, VHF/UHF	6
Communications Center	2
Warning Receiver	3

* The radios listed support the headquarters of the unit to which the signal battalion is organic.

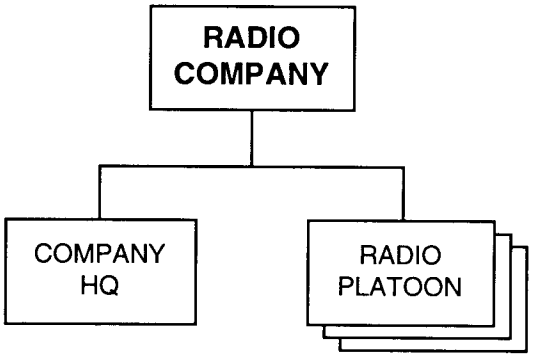
Battalion Headquarters, Signal Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total	Equipment	Total
Truck, Utility	4	Radio, HF, Manpack, Low-Power	1

Radio Company, Signal Bn, MID and TD or MIBR (Sep) and TBR (Sep)

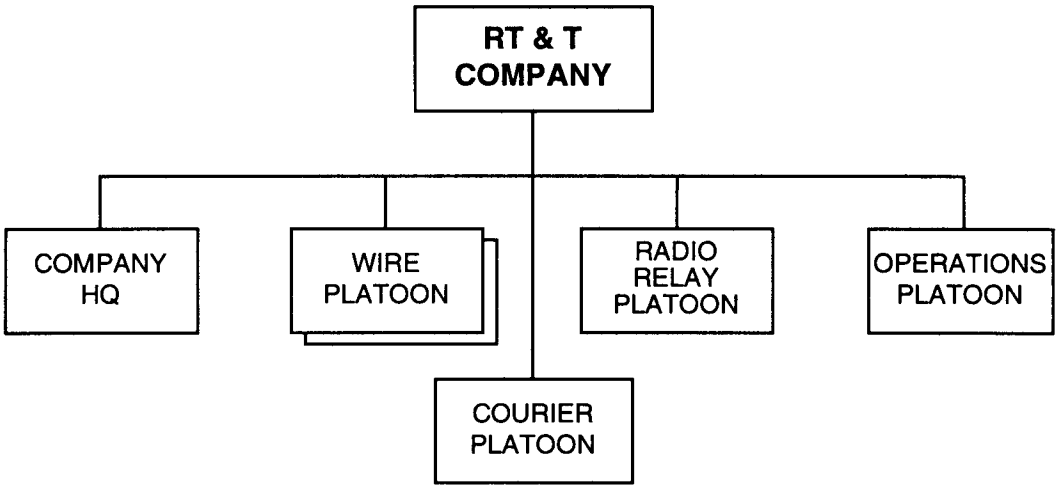


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	8
Truck, Utility	4
Truck, Medium	1
Van, Signal	12
Trailer, Cargo, 1-Axle	1
Trailer, Generator	3

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	7
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, High-Power	8
HF/VHF, Vehicle Mount, Medium-Power	6
HF, Manpack, Low-Power	1
HF, Vehicle Mount, Medium-Power	8
Warning Receiver	1

Radio Telephone and Telegraph Company, Signal Bn, MID and TD or MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	3
Truck, Light	4
Truck, Medium	2
Van, Signal	21
Motorcycle*	13
Trailer, Cargo, 1-Axle	4
Trailer, Generator	5

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	13
HF/VHF, Vehicle Mount, Medium-Power	1
HF, Manpack, Low-Power	2
Radio Relay Station, VHF/UHF**	6
Communications Center	2
Warning Receiver	2

* Motorcycles provide the division or separate brigade commander with messenger/courier service.

** Each radio relay station occupies one or two signal vans (box-body trucks).

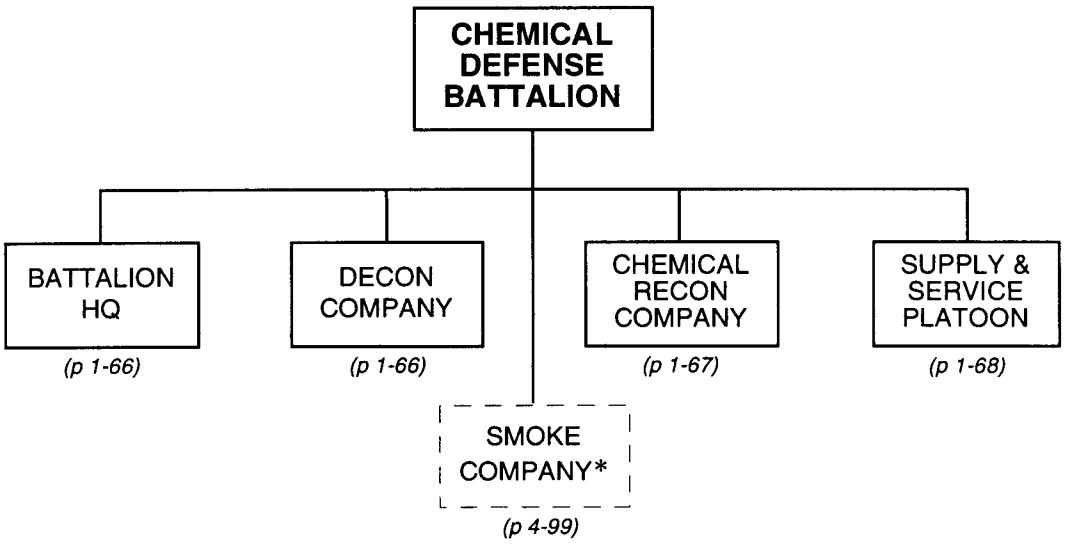
Supply and Service Platoon, Signal Bn, MID and TD or MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Light	3
Truck, Medium	6
Truck, POL (5,000-Liter)	3
Van, Maintenance	4
Ambulance	1
Trailer, Cargo, 1-Axle	5
Trailer, Generator	2
Trailer, Kitchen	2
Trailer, POL (4,200-Liter)	3
Trailer, Water (900-Liter)	1
Radio, HF, Manpack, Low-Power	2

Chemical Defense Battalion, MID and TD



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Chemical Recon Vehicle, BRDM-2RKh/RKhM	9
Truck, Decon, ARS-12U/14	18
Truck, Decon, DDA-53/66	6
Truck, Decon, TMS-65	4
Trailer, Decon, DDP	4
ATRL, RPG-22/26	5
Truck, Utility	4
Truck, Light	4
Truck, Medium	23
Truck, POL (5,000-Liter)	4
Truck, Water (2,000-Liter)	7
Van, Light	1
Van, Maintenance	2
Van, Signal	1

Equipment	Total
Ambulance	1
Trailer, Cargo, 1-Axle	2
Trailer, Cargo, 2-Axle	6
Trailer, Generator	3
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	7
Radios:	
VHF, Manpack, Low-Power	5
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount Medium-Power,	1
HF, Manpack, Low-Power	2
Warning Receiver	1

* The smoke company will not be present if the division's parent army or corps has a smoke battalion. Therefore, the battalion equipment totals here do not include the smoke company.

Battalion Headquarters, Chem Defense Bn

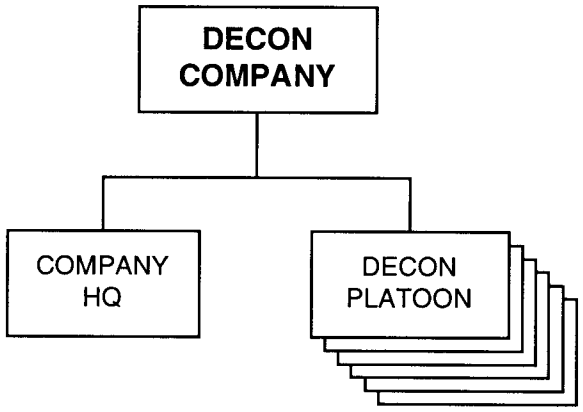


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Van, Light	1
Van, Signal	1

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount Medium-Power	1
HF, Manpack, Low-Power	1
Warning Receiver	1

Decontamination Company, Chem Def Bn or Decon Bn

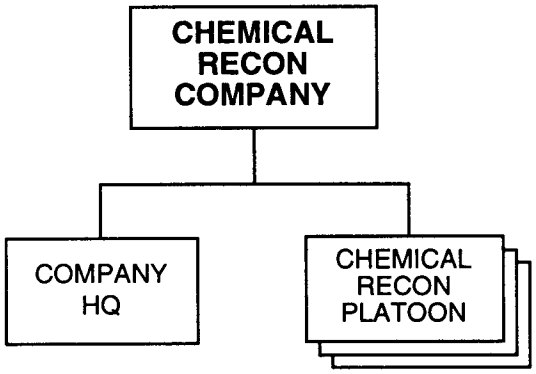


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	4
Truck, Decon, ARS-12U/14	16
Truck, Decon, DDA-53/66	4
Truck, Decon, TMS-65	4
Trailer, Decon, DDP	4
Truck, Utility	1
Truck, Light	4

Equipment	Total
Truck, Medium	12
Truck, Water (2,000-Liter)	6
Trailer, Cargo, 1-Axle	2
Trailer, Cargo 2-Axle	2
Trailer, Water (900-Liter)	6
Radio, VHF, Manpack, Low-Power	2

Chemical Reconnaissance Company, Chem Def Bn

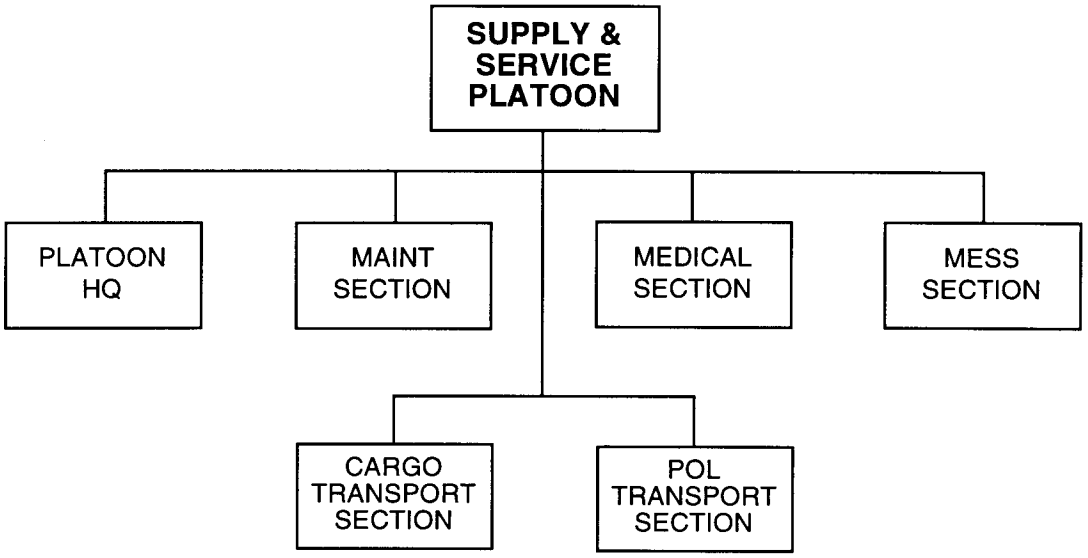


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	1
Chemical Recon Vehicle, BRDM-2RKh/RKhM	9
Truck, Utility	1

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	9
HF, Manpack, Low-Power	1

Supply and Service Platoon, Chem Def Bn

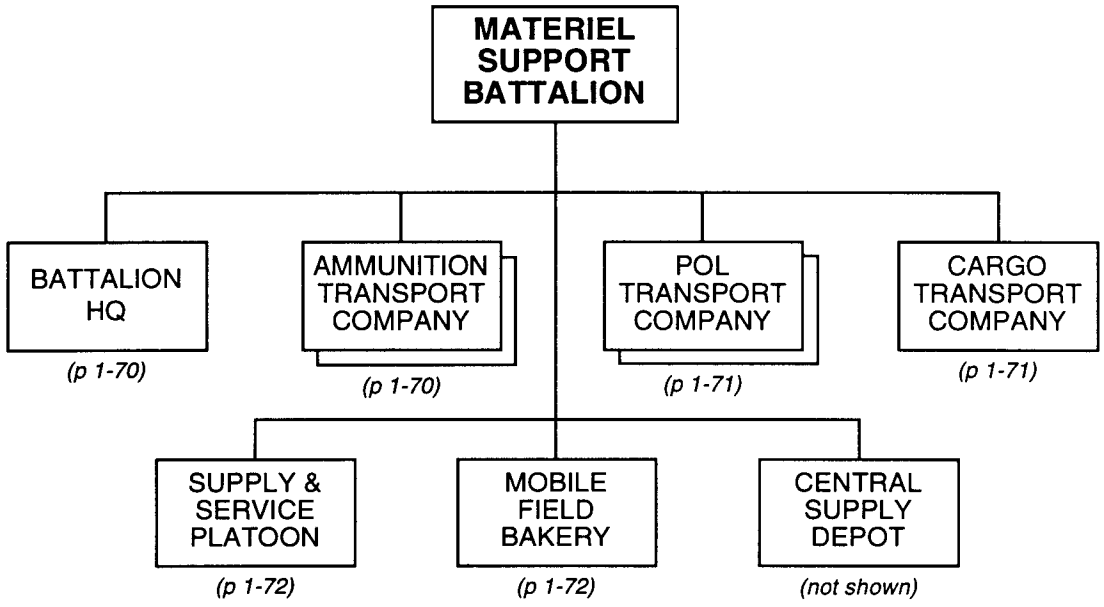


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Medium	11
Truck, Decon, DDA-53/66	2
Truck, Decon, ARS-12U/14	2
Truck, POL (5,000-Liter)	4
Truck, Water (2,000-Liter)	1
Van, Maintenance	2
Ambulance	1

Equipment	Total
Trailer, Cargo, 2-Axle	4
Trailer, Generator	3
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Radio, VHF, Manpack, Low-Power	1

Materiel Support Battalion, MID and TD or MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
ATRL, RPG-22/26	19
Truck, Utility	7
Truck, Light	33
Truck, Medium	158
Truck, Crane	6
Truck, POL (5,000-Liter)	160
Truck, Water (2,000-Liter)	6
Van, Kitchen	2
Van, Maintenance	11
Van, Mobile Field Bakery	4
Van, Signal	1

Equipment	Total
Ambulance	1
Trailer, Cargo, 1-Axle	34
Trailer, Cargo, 2-Axle	152
Trailer, Generator	6
Trailer, POL (4,200-Liter)	160
Trailer, Water (900-Liter)	7
Radios:	
VHF, Manpack, Low-Power	5
HF/VHF, Vehicle Mount, Medium-Power	1
HF, Manpack, Low-Power	1
Warning Receiver	1

Battalion Headquarters, Mat Spt Bn

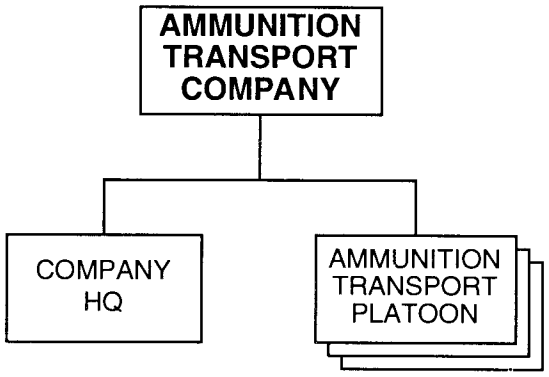


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	2
Van, Maintenance	1
Van, Signal	1
Trailer, Cargo, 1-Axle	2

Equipment	Total
Radios:	
HF/VHF, Vehicle Mount, Medium-Power	1
HF, Manpack, Low-Power	1
Warning Receiver	1

Ammunition Transport Company, Mat Spt Bn

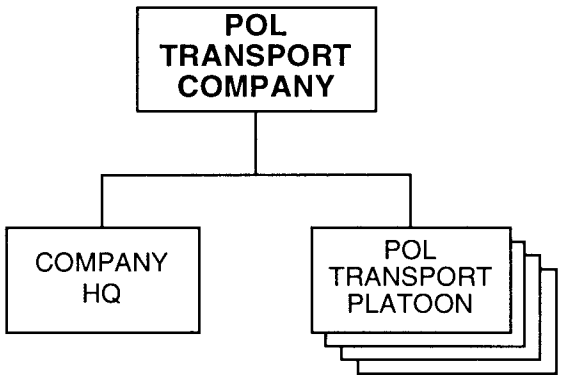


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	3
Truck, Utility	1
Truck, Medium	60

Equipment	Total
Truck, Crane	1
Trailer, Cargo, 2-Axle	60
Radio, VHF, Manpack, Low-Power	1

POL Transport Company, Mat Spt Bn

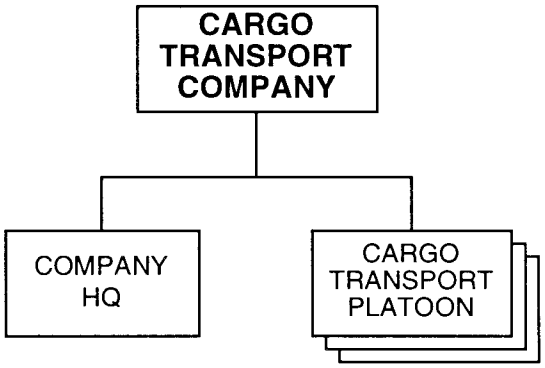


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	4
Truck, Utility	1
Truck, POL (5,000-Liter)	80

Equipment	Total
Truck, Crane	1
Trailer, POL (4,200-Liter)	80
Radio, VHF, Manpack, Low-Power	1

Cargo Transport Company, Mat Spt Bn

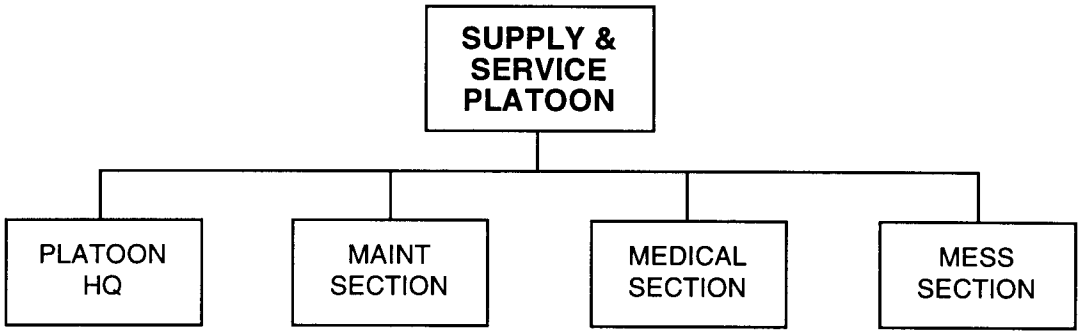


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	3
Truck, Utility	1
Truck, Light	30
Truck, Medium	30

Equipment	Total
Truck, Crane	1
Trailer, Cargo, 1-Axle	30
Trailer, Cargo, 2-Axle	30
Radio, VHF, Manpack, Low-Power	1

Supply and Service Platoon, Mat Spt Bn

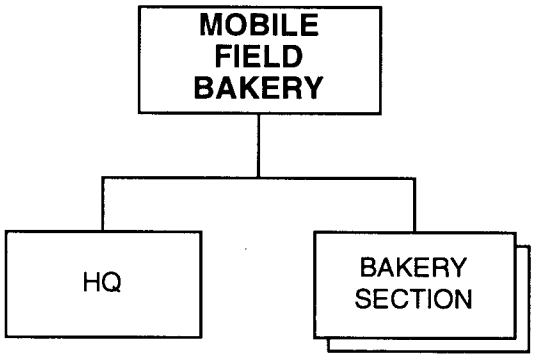


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	2
Truck, Crane	1
Truck, Light	3
Truck, Water (2,000-Liter)	6
Van, Kitchen	2
Van, Maintenance	10

Equipment	Total
Ambulance	1
Trailer, Cargo, 1-Axle	2
Trailer, Cargo, 2-Axle	2
Trailer, Generator	6
Trailer, Water (900-Liter)	3

Mobile Field Bakery, Mat Spt Bn

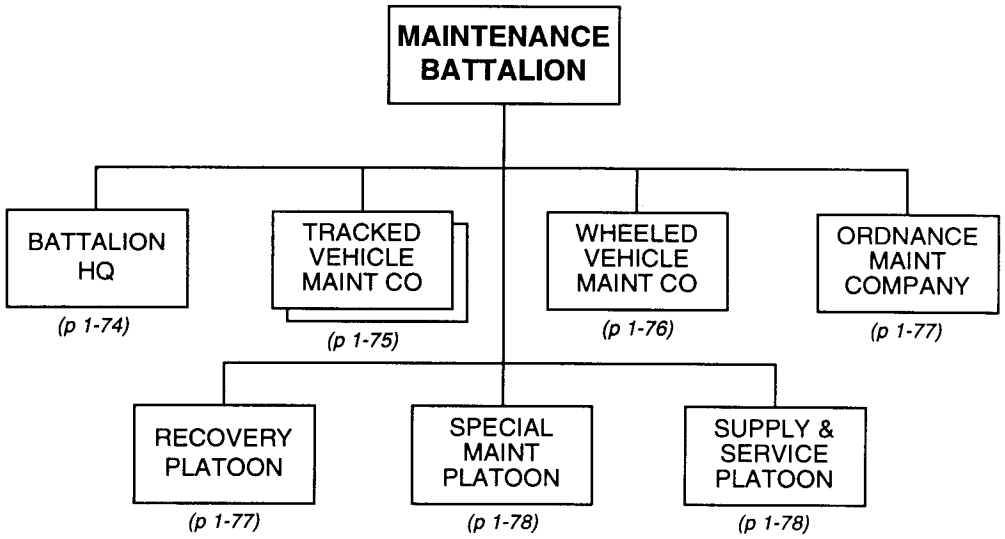


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Medium	8
Van, Mobile Field Bakery	4

Equipment	Total
Trailer, Water (900-Liter)	4

Maintenance Battalion, MID and TD or MIBR (Sep) and TBR (Sep) or Corps or Army



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATRL, RPG-22/26	19/21
SAM, Shoulder-Fired	3
Truck, Utility	6
Truck, Light	4
Truck, Medium	24/28
Truck, Crane	4
Truck, POL (5,000-Liter)	6
Truck, Recovery	2
Truck, Water (2,000-Liter)	1
Van, Light	4
Van, Maintenance	52/60
Van, Signal	1
Ambulance	1
Tracked Amphibian, K-61/PTS	1
Tractor, Artillery, AT-S	1
Motorcycle	3
Armored Recovery Vehicle	5

Equipment	Total *
Armored Maintenance Vehicle, MTP	18/0
Trailer, Cargo, 2-Axle	16/18
Trailer, Generator	9
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	6
Trailer, Water (900-Liter)	1
Tractor-Trailer, Lowboy	2
Radios:	
VHF, Manpack, Low-Power	6
VHF, Vehicle Mount, Medium-Power	24/6
HF/VHF, Vehicle Mount, Medium-Power	1
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

* Totals listed with multiple numbers (such as 19/21) reflect the numbers of that particular piece of equipment in the maintenance battalion in a mechanized infantry division or separate mechanized infantry brigade versus a tank division, separate brigade, corps or army. The mechanized infantry division or separate mechanized infantry brigade has fewer tanks and thus requires less maintenance support.

Battalion Headquarters,
Maint Bn _____

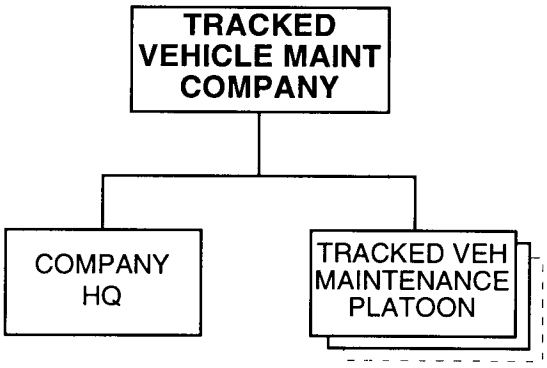
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	2
Van, Signal	1
Motorcycle	3

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

Tracked Vehicle Maintenance Company, Maint Bn



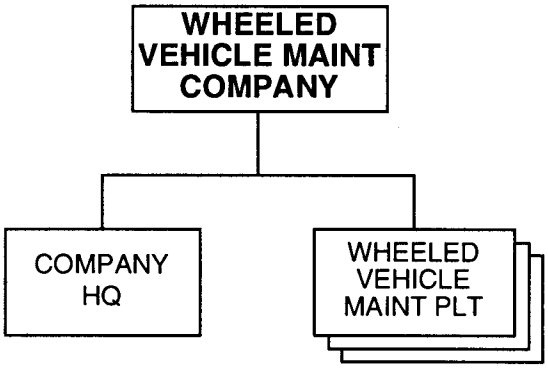
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATRL, RPG-22/26	3/4
Truck, Utility	1
Truck, Medium	4/6
Truck, Crane	1
Van, Light	1
Van, Maintenance	12/14
Armored Maintenance Vehicle, MTP	9/0

Equipment	Total *
Trailer, Cargo, 2-Axle	3/4
Trailer, Generator	2
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	9/0

* Totals listed with multiple numbers (such as 3/4) reflect the numbers of that particular piece of equipment in this company in a mechanized infantry division or separate mechanized infantry brigade versus the same company in a separate tank brigade, corps or army. The mechanized infantry division or separate mechanized infantry brigade has fewer tanks and thus requires less maintenance support.

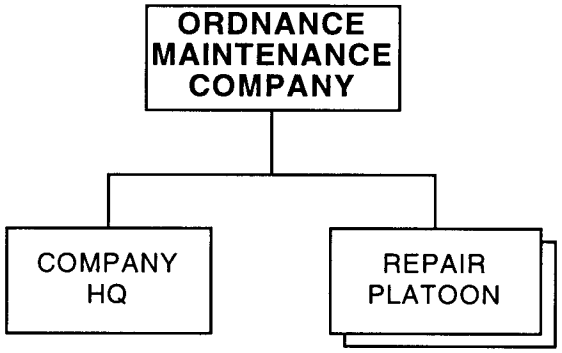
Wheeled Vehicle Maintenance Company, Maint Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	4
Truck, Utility	1
Truck, Medium	6
Truck, Crane	1
Van, Light	1
Van, Maintenance	14
Trailer, Cargo, 2-Axle	4
Trailer, Generator	2
Radio, VHF, Manpack, Low-Power	1

Ordnance Maintenance Company, Maint Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	3
Truck, Utility	1
Truck, Crane	1
Van, Light	1

Equipment	Total
Van, Maintenance	8
Trailer, Cargo, 2-Axle	2
Trailer, Generator	2
Radio, VHF, Manpack, Low-Power	1

Recovery Platoon, Maint Bn,



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATRL, RPG-22/26	5
Truck, Recovery	2
Tracked Amphibian, K-61/PTS	1
Tractor, Artillery, AT-S	1
Armored Recovery Vehicle	5
Tractor-Trailer, Lowboy	2

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	6
HF, Vehicle Mount, Medium-Power	1

Special Maintenance Platoon, Maint Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total	Equipment	Total
Van, Maintenance	6	Trailer, Generator	1

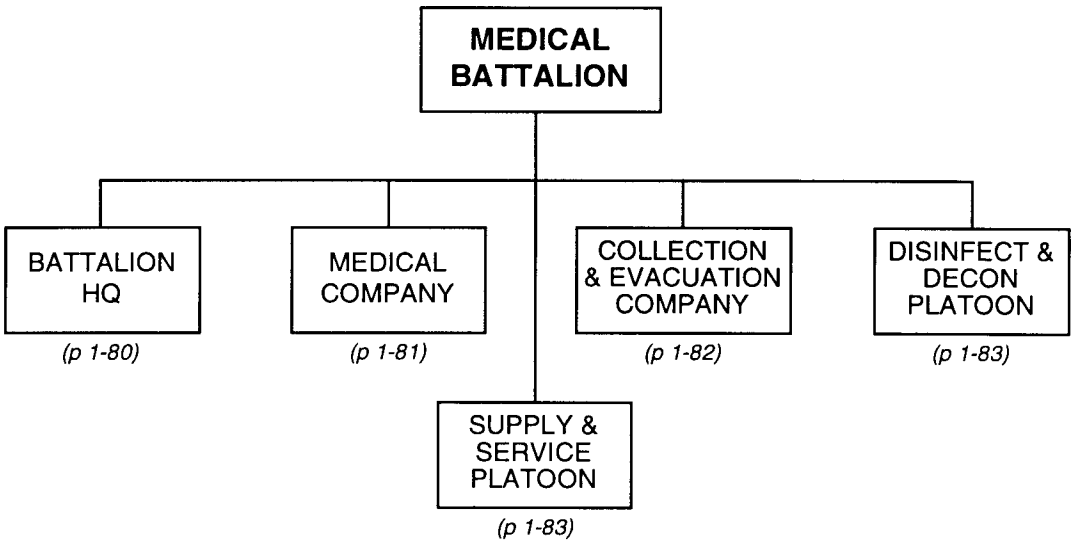
Supply and Service Platoon, Maint Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total	Equipment	Total
ATRL, RPG-22/26	1	Trailer, Cargo, 2-Axle	4
Truck, Light	4	Trailer, Kitchen	3
Truck, Medium	10	Trailer, POL (4,200-Liter)	6
Truck, POL (5,000-Liter)	6	Trailer, Water (900-Liter)	1
Truck, Water (2,000-Liter)	1	Radio, VHF, Manpack, Low-Power	1
Ambulance	1		

Medical Battalion, MID and TD or MIBR (Sep) and TBR (Sep) or Army or Corps



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	6
Truck, Light	4
Truck, Medium	21
Truck, Decon, DDA-53/66	1
Truck, Decon, ARS-12U/14	3
Truck, POL (5,000-Liter)	2
Truck, Water (2,000-Liter)	3
Van, Hospital	9
Van, Maintenance	2
Van, Signal	1
Ambulance	12
Trailer, Cargo, 2-Axle	10

Equipment	Total
Trailer, Decon, DDP	1
Trailer, Generator	3
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	4
HF/VHF, Vehicle Mount, Medium-Power	1
HF, Manpack, Low-Power	1
Warning Receiver	1

Battalion Headquarters,
Med Bn _____

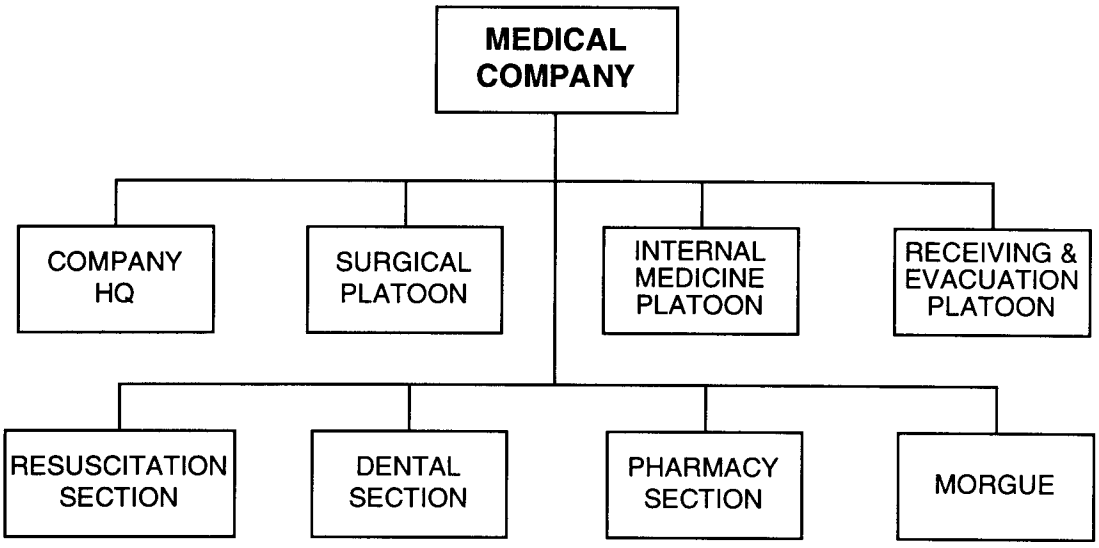
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Van, Signal	1

Equipment	Total
Radios:	
HF/VHF, Vehicle Mount, Medium-Power	1
HF, Manpack, Low-Power	1
Warning Receiver	1

Medical Company, Med Bn

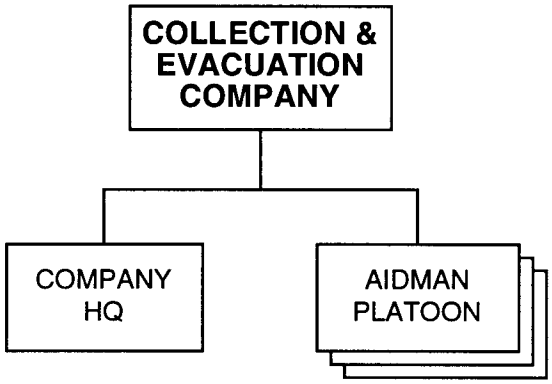


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	2
Truck, Light	1
Truck, Medium*	7
Van, Hospital	9
Trailer, Cargo, 2-Axle	7
Trailer, Generator	2
Radio, VHF, Manpack, Low-Power	1

* In better-equipped units, additional hospital vans may replace these general-purpose cargo trucks.

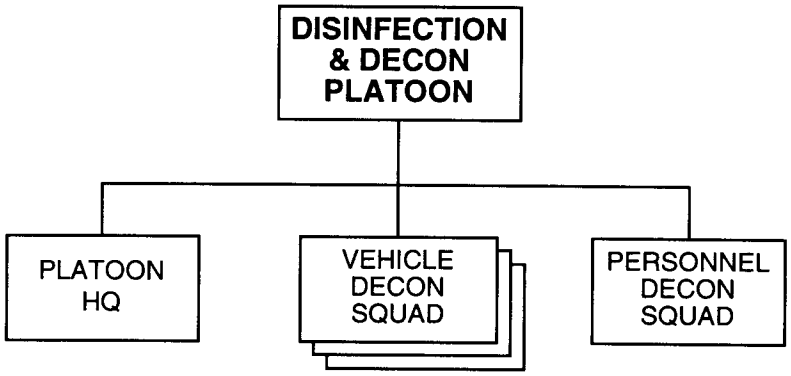
Collection and Evacuation Company, Med Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total	Equipment	Total
Ambulance	12	Truck, Light	3
Truck, Utility	1	Radio, VHF, Manpack, Low-Power	1

Disinfection and Decontamination Platoon, Med Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Decon, DDA-53/66	1
Truck, Decon, ARS-12U/14	3
Trailer, Decon, DDP	1
Truck, Utility	1

Equipment	Total
Trailer, Cargo, 2-Axle	1
Trailer, Water (900-Liter)	1
Radio, VHF, Manpack, Low-Power	1

Supply and Service Platoon, Med Bn

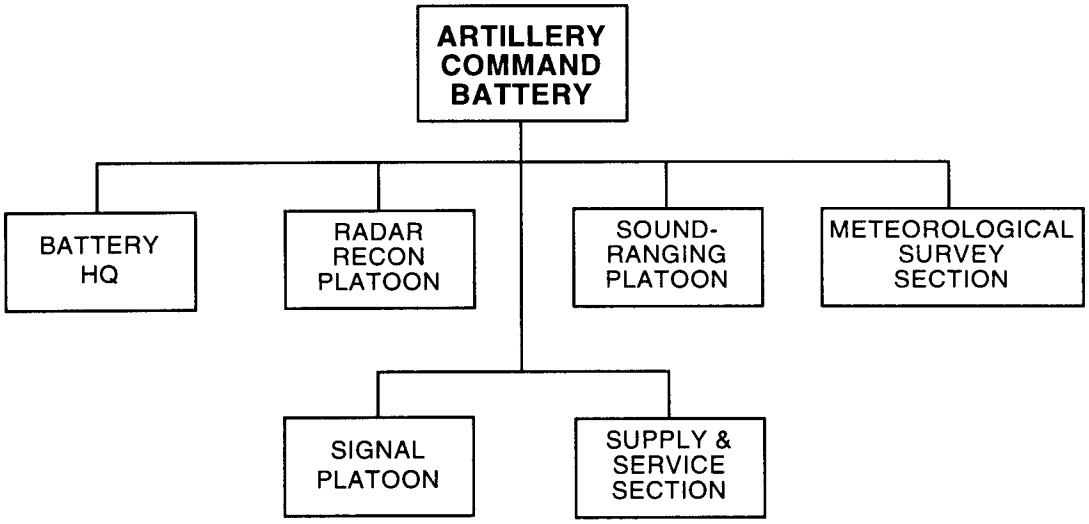


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Medium	14
Truck, POL (5,000-Liter)	2
Truck, Water (2,000-Liter)	3
Van, Maintenance	2

Equipment	Total
Trailer, Cargo, 2-Axle	2
Trailer, Generator	1
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Radio, VHF, Manpack, Low-Power	1

Artillery Command Battery, MID and TD or Arty Command Bn



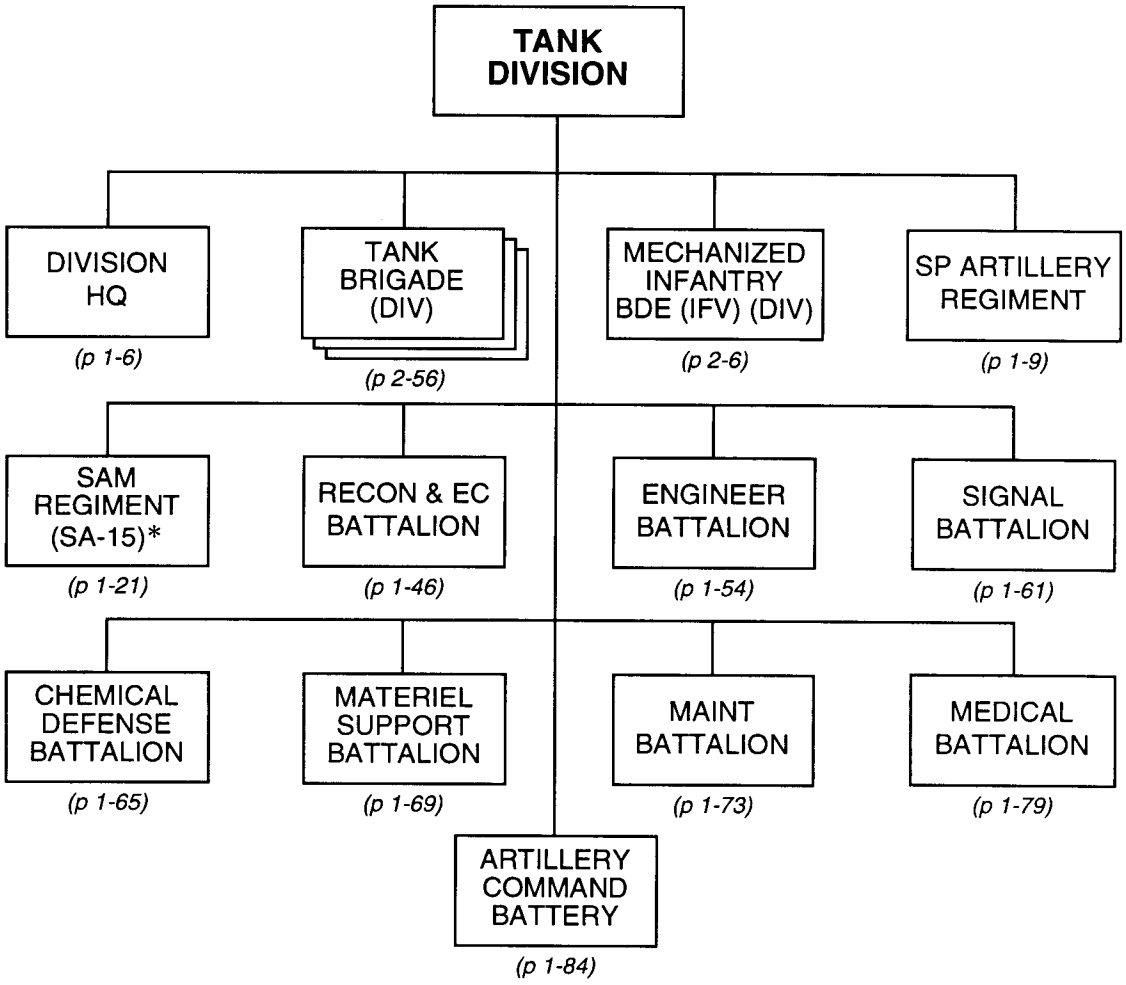
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	2
APC, Radar, MT-LB (SNAR-10)*	1
APC, Radar, MT-LB (ARK-1)**	1
Mobile Recon Post, PRP-3/4***	1
Sound-Ranging Set	1
ATRL, RPG-22/26	4
5.45-mm LMG, RPK-74	4
Truck, Light	5
Truck, Medium	3
Van, Maintenance	4
Van, Signal	1
Van, Survey	1
Trailer, Cargo, 2-Axle	2
Trailer, Generator	2
Trailer, Kitchen	1

Equipment	Total
Trailer, Meteorological****	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	2
Periscopic Aiming Circle, PAB2A	2
Night-Vision Sight (Aiming Circle)	2
GPS Receiver	4
Radios:	
VHF, Manpack, Low-Power	6
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, Medium-Power	4
HF, Manpack, Low-Power	2
Warning Receiver	1

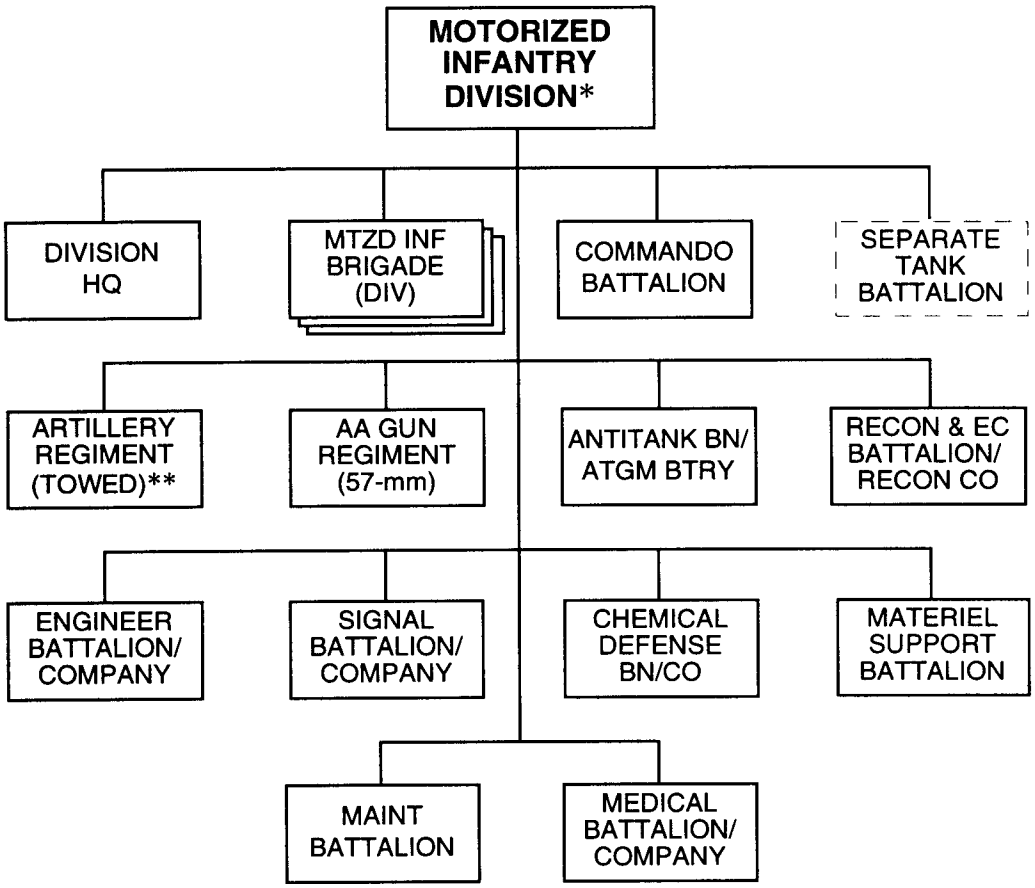
* This system includes the BIG FRED battlefield surveillance radar.
** This system includes the RICE BAG countermortar/counterbattery radar.
*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
**** This trailer carries the END TRAY meteorological radar.

Tank Division



* Instead of the SA-15 SAM regiment, the tank division may have a SAM regiment equipped with the SA-8 (p 1-29) or SA-6 (p 1-33) or a 57-mm AA gun regiment (p 1-37).

Motorized Infantry Division



* The basic maneuver units in this division are three motorized infantry brigades (divisional) and a commando battalion. In addition, this division may or may not have a separate tank battalion. Most motorized infantry divisions have battalion-size antitank, reconnaissance (and EC), engineer, chemical defense, signal, and medical units. However, some lesser-equipped motorized infantry divisions may have an ATGM battery and company-size engineer, signal, reconnaissance, chemical defense, and medical units. For details on these subordinate units, see FM 100-63. However, the motorized infantry division in an armor- and mechanized-based force would have more modern equipment, more compatible with other units in FM 100-60.

** When a motorized infantry division is part of an armor- and mechanized-based force, its artillery regiment normally has one 122-mm howitzer battalion, two 152-mm howitzer battalions, and one 122-mm MRL battalion.

Chapter 2
Maneuver Brigades

The basic maneuver unit is the ***brigade,*** consisting of maneuver battalions and a wide array of combat support and combat service support elements.[1] A ***divisional*** brigade is always part of a division. In contrast, a ***separate*** brigade is not part of a division. Instead, it is directly subordinate to a corps, an army, or an army group. Besides having more maneuver battalions, a separate brigade has some of the combat support and combat service support assets normally found at division level. The separate brigade needs these support assets to fight more independently, without relying on support from a parent division.

An armor- and mechanized-based OPFOR consists primarily of mechanized infantry units. The ***mechanized infantry brigade*** has two basic types: one equipped with ***infantry fighting vehicles (IFVs)*** and one equipped with ***armored personnel carriers (APCs).*** There are also ***tank brigades.*** Each of these three types of maneuver brigade has separate and divisional versions. Also, even an armor- and mechanized-based OPFOR may have some truck-mounted ***motorized infantry.*** (See FM 100-63 for motorized infantry organizations.)

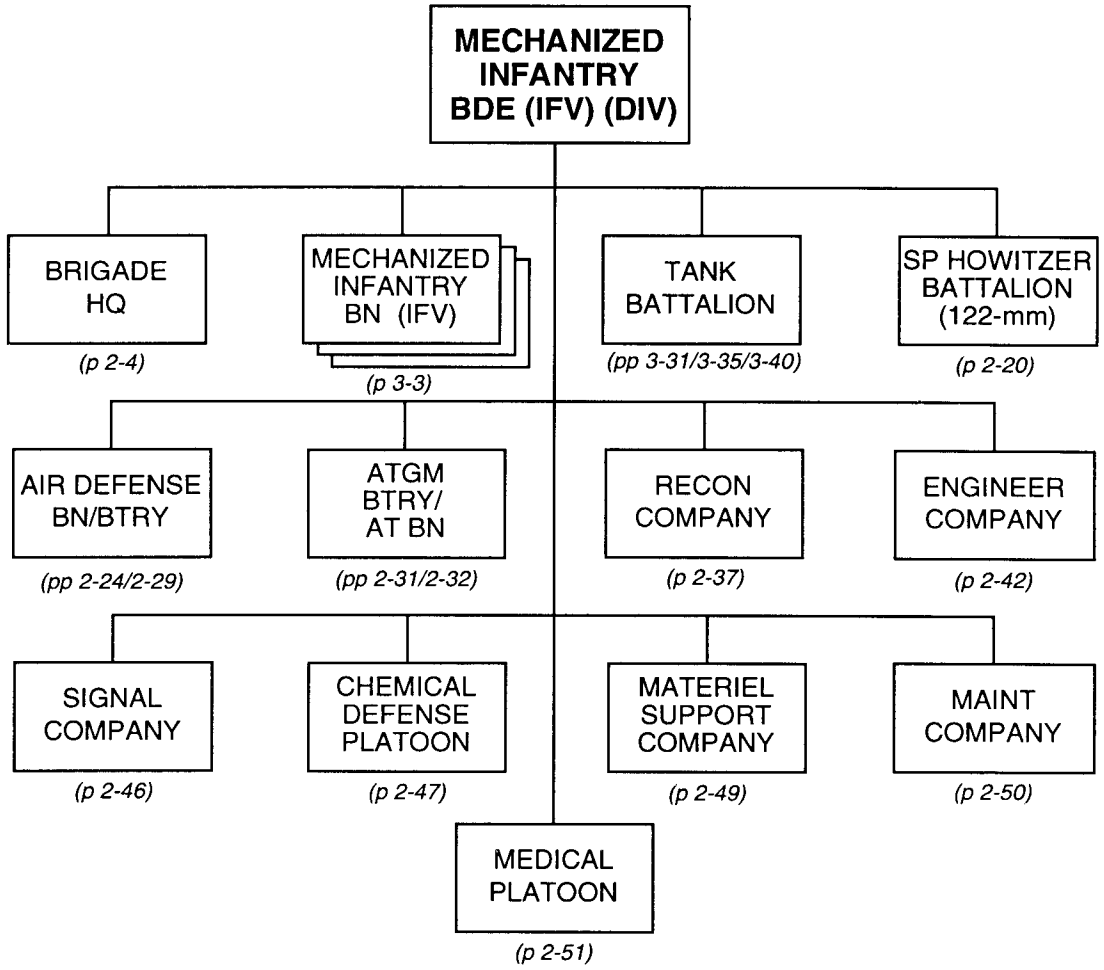
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[1] Some armor- and mechanized-based forces may call the same organization a regiment. This difference in terminology does not signify a different structure or capability.

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Mechanized Infantry Brigade (IFV) (Div), MID



(continued)

Mechanized Infantry Brigade (IFV) (Div), MID (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x3)*	*Tank Bn*	*122-mm SP How Bn*	*Air Defense Bn*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES														
Medium Tank, T-64K/72K/80K			1											1
Medium Tank, T-64/72/80			30											30
ACV, BMP-1K/2K/3K*		6	1				3							10
IFV, BMP-1/2/3		123			6		4							133
ACV, BMP-1KSh									5					5
ACV, BRM-1K/3K**		3					3							6
APC, BTR-60/70/80	1													1
ACV, BTR (R-145BM)***		6	1					1	3					11
APC, BTR-60PA (FAC)	1													1
ASC, BRDM-2							4							4
ACV, BRDM-2U						4								4
Chem Recon Vehicle, BRDM-2RKh/RKhM										3				3
Mobile Recon Post, PRP-3/4****				1										1
ACRV, 1V13/1V13M/1V22				3										3
ACRV, 1V14/1V14M/1V23				3										3
ACRV, 1V15/1V15M/1V24				1										1
ACRV, 1V16/1V16M/1V25				1										1
ACV, PPRU*****					2									2
ACV, BTR-60 (PU-12)					2									2
Armored Recovery Vehicle												3		3
Armored Maintenance Vehicle, MTP												3		3
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		18												18
120-mm or 82-mm Mortar		18												18
122-mm SP Howitzer, 2S1				18										18
122-mm Laser-Guided Projectile Set				4										4
ATGM Manpack, AT-7/SAXHORN		27												27
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL						9								9
30-mm SP AA System, 2S6******					6									6
SAM, SA-13/GOPHER TELAR*******					6									6
SAM, Shoulder-Fired	3	27		18	18									66
ENGINEER EQUIPMENT														
Bridge, Tank-Launched								1						1
Bridge, Truck-Launched								4						4
Minelayer, GMZ								3						3
Mineclearing Plow		9												9
Mine Roller-Plow								3						3
Mine Detector, DIM								1						1
Armored Engineer Tractor, IMR								1						1
Ditching Machine, BTM/MDK								1						1
Ditching Machine, PZM/TMK								3						3
Route-Clearing Vehicle, BAT								1						1
Truck, Water Purification								1						1

* In lieu of one of these BMP command variants, some battalion headquarters may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

** This system includes the TALL MIKE battlefield surveillance radar.

*** Some IFV-equipped mechanized infantry battalions may use the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

**** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

***** This system includes the DOG EAR target acquisition radar.

****** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

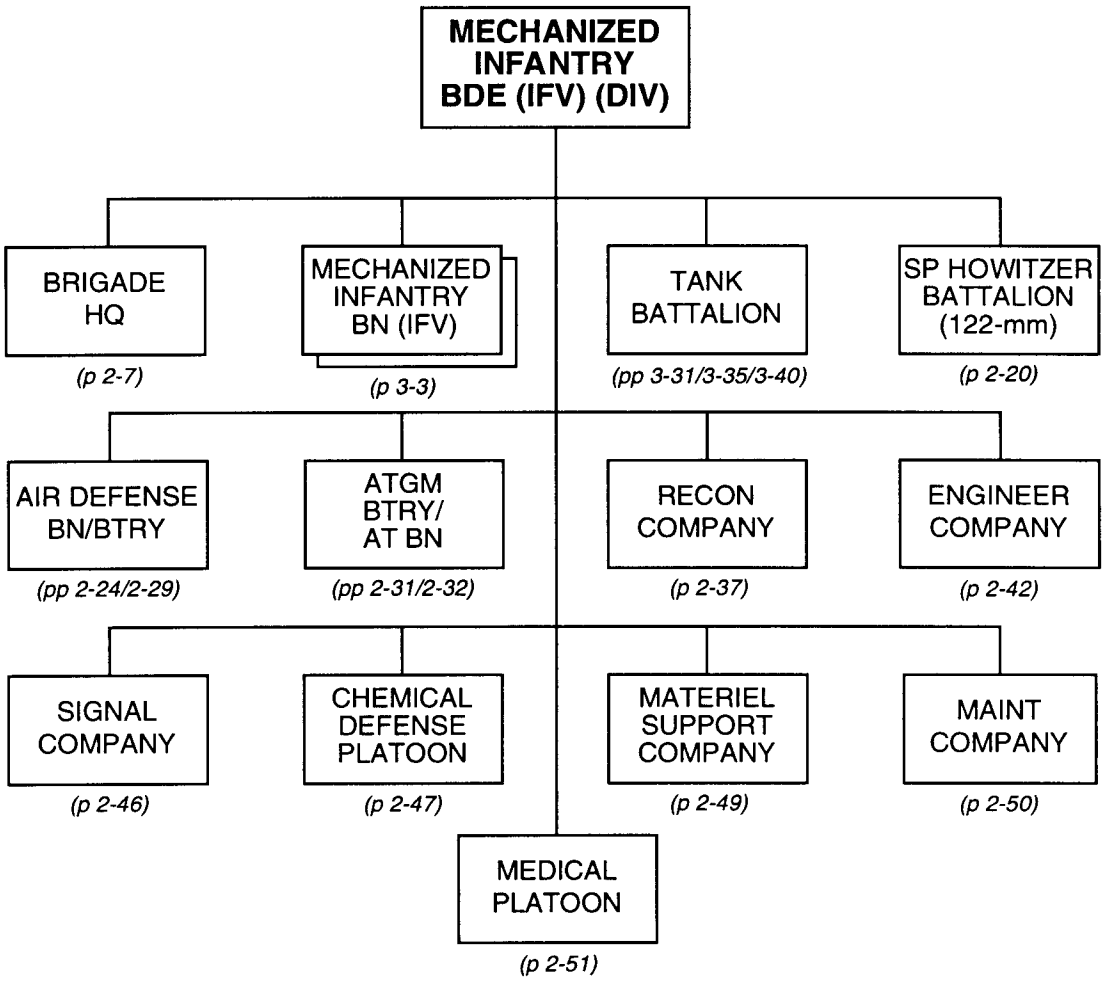
******* This system includes a ranging radar.

(continued)

Mechanized Infantry Brigade (IFV) (Div), MID (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x3)*	*Tank Bn*	*122-mm SP How Bn*	*Air Defense Bn*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRUCKS														
Truck, Utility	3	12						4	5		2	1		27
Truck, Light		39		4	3				3		4		1	54
Truck, Medium	1	12	7	14	4	3		8			45	2	2	98
Truck, Heavy, with Crane								3						3
Truck, Crane								1						1
Truck, Crane Shovel								1						1
Truck, Decon, ARS-12U/14										3				3
Truck, Decon, DDA-53/66										1			1	2
Truck, Dump								2						2
Truck, POL (5,000-L)		9	5	2	2						15			33
Truck, Water (2,000-L)										2	4			6
Van, Command	3													3
Van, Hospital													1	1
Van, Kitchen		3	1											4
Van, Maintenance		3	1	2				1			1	12		20
Van, Signal				4					5					9
Ambulance		3	1	1									4	9
TRAILERS														
Trailer, Cargo, 1-Axle		6	1					6						13
Trailer, Cargo, 2-Axle			6	16				2			30	6		60
Trailer, Generator		3	1	2	2				1		1	3		13
Trailer, Kitchen		9		3							2		1	15
Trailer, POL (4,200-L)		9	4	2							15			30
Trailer, POL (1,200-L)		3												3
Trailer, Water (900/1,200-L)		3	1	1						2	1		1	9
RADAR														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE						1	1							2
RADIOS														
VHF, Manpack, Low-Power	3	57	1	10		4	7		7		1	1	1	92
VHF, Portable, Low-Power		63			4		4							71
VHF, Portable, Very-Low-Power		12			8									20
VHF, Vehicle Mount, Medium-Power	2	141	33	27	22	13	11	13	8	3		6		279
HF, Manpack, Low-Power			2					4	2	1				9
HF, Vehicle Mount, Medium-Power		12	6		1		1	1	8					29
HF/VHF, Vehicle Mount, Medium-Power				4					2					6
HF/VHF, Vehicle Mount, High-Power									2					2
HF, Vehicle Mount, High-Power									1					1
Radio Relay, VHF/UHF									2					2
Warning Receiver		3	1	2	4		1		3					14
MISCELLANEOUS														
Rangefinder, Laser		3		7		1								11
Rangefinder, Laser, Binocular				9										9
GPS Receiver		3		32										35
Periscopic Aiming Circle		3		6										9
Collimator		18												18
Motorcycle									3					3

Mechanized Infantry Brigade (IFV) (Div), TD



(continued)

Mechanized Infantry Brigade (IFV) (Div), TD (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x2)*	*Tank Bn*	*122-mm SP How Bn*	*Air Defense Bn*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES														
Medium Tank, T-64K/72K/80K			1											1
Medium Tank, T-64/72/80			30											30
ACV, BMP-1K/2K/3K*		4	1				3							8
IFV, BMP-1/2/3		82			6		4							92
ACV, BMP-1KSh									5					5
ACV, BRM-1K/3K**		2					3							5
APC, BTR-60/70/80	1													1
ACV, BTR (R-145BM)***		4	1					1	3					9
APC, BTR-60PA (FAC)	1													1
ASC, BRDM-2							4							4
ACV, BRDM-2U						4								4
Chem Recon Vehicle, BRDM-2RKh/RKhM										3				3
Mobile Recon Post, PRP-3/4****				1										1
ACRV, 1V13/1V13M/1V22				3										3
ACRV, 1V14/1V14M/1V23				3										3
ACRV, 1V15/1V15M/1V24				1										1
ACRV, 1V16/1V16M/1V25				1										1
ACV, PPRU*****					2									2
ACV, BTR-60 (PU-12)					2									2
Armored Recovery Vehicle												3		3
Armored Maintenance Vehicle, MTP												3		3
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		12												12
120-mm or 82-mm Mortar		12												12
122-mm SP Howitzer, 2S1				18										18
122-mm Laser-Guided Projectile Set				4										4
ATGM Manpack, AT-7/SAXHORN		18												18
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL						9								9
30-mm SP AA System, 2S6******					6									6
SAM, SA-13/GOPHER TELAR*******					6									6
SAM, Shoulder-Fired	3	18		18	18									57
ENGINEER EQUIPMENT														
Bridge, Tank-Launched								1						1
Bridge, Truck-Launched								4						4
Minelayer, GMZ								3						3
Mineclearing Plow			9											9
Mine Roller-Plow								3						3
Mine Detector, DIM								1						1
Armored Engineer Tractor, IMR								1						1
Ditching Machine, BTM/MDK								1						1
Ditching Machine, PZM/TMK								3						3
Route-Clearing Vehicle, BAT								1						1
Truck, Water Purification								1						1

* In lieu of one of these BMP command variants, some battalion headquarters may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

** This system includes the TALL MIKE battlefield surveillance radar.

*** Some IFV-equipped mechanized infantry battalions may use the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

**** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

***** This system includes the DOG EAR target acquisition radar.

****** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

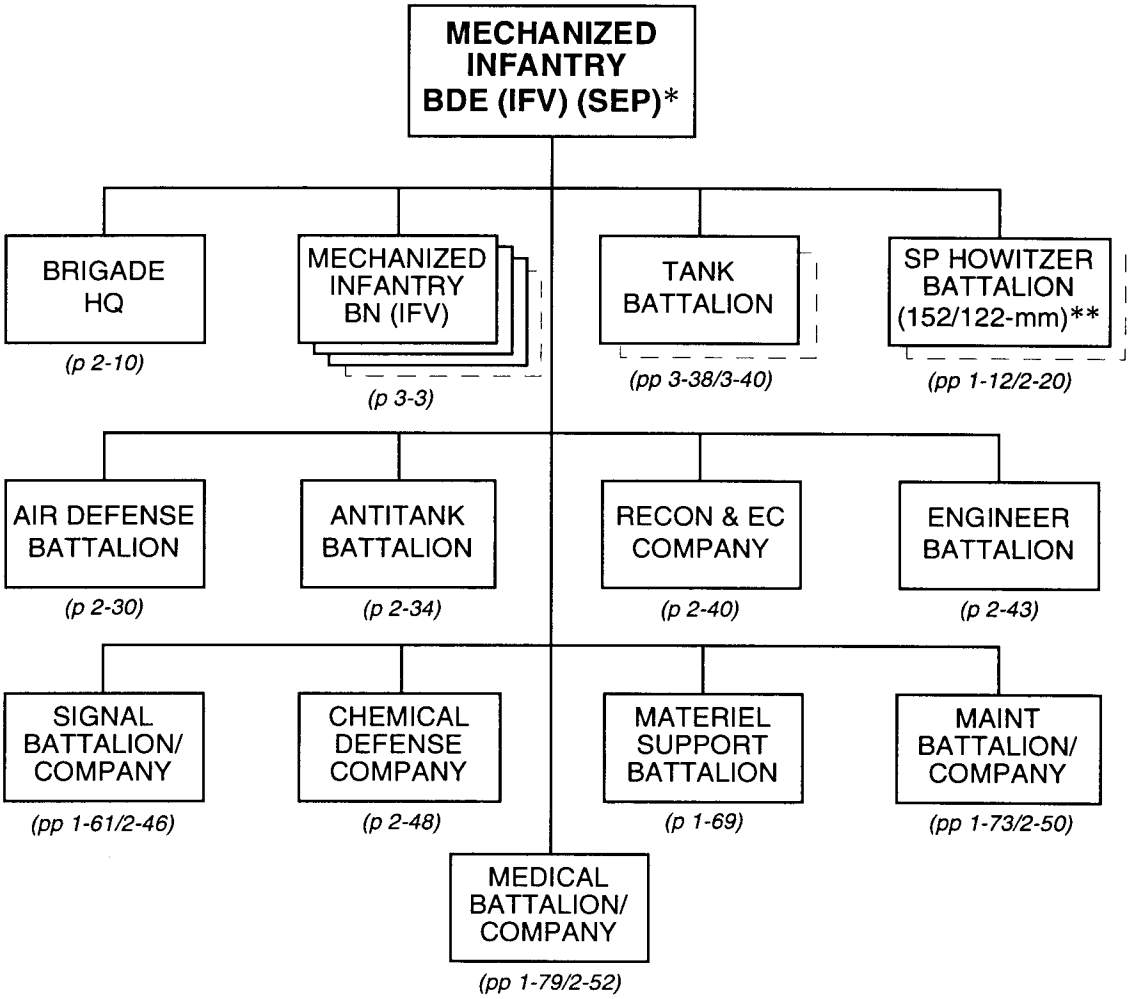
******* This system includes a ranging radar.

(continued)

Mechanized Infantry Brigade (IFV) (Div), TD (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x2)*	*Tank Bn*	*122-mm SP How Bn*	*Air Defense Bn*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRUCKS														
Truck, Utility	3	9						4	5		2	1		24
Truck, Light		26		4	3				3		4		1	41
Truck, Medium	1	9	7	14	4	3		8			45	2	2	95
Truck, Heavy,with Crane								3						3
Truck, Crane								1						1
Truck, Crane Shovel								1						1
Truck, Decon, ARS-12U/14										3				3
Truck, Decon, DDA-53/66										1			1	2
Truck, Dump								2						2
Truck, POL (5,000-L)		6	5	2	2						15			30
Truck, Water (2,000-L)										2	4			6
Van, Command	3													3
Van, Hospital													1	1
Van, Kitchen		2	1											3
Van, Maintenance		2	1	2				1			1	12		19
Van, Signal				4					5					9
Ambulance		2	1	1									4	8
TRAILERS														
Trailer, Cargo, 1-Axle		4	1					6						11
Trailer, Cargo, 2-Axle			6	16				2			30	6		60
Trailer, Generator		2	1	2	2				1		1	3		12
Trailer, Kitchen		6		3							2		1	12
Trailer, POL (4,200-L)		6	4	2							15			27
Trailer, POL (1,200-L)		2												2
Trailer, Water (900/1,200-L)		2	1	1						2	1		1	8
RADAR														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE						1	1							2
RADIOS														
VHF, Manpack, Low-Power	3	38	1	10		4	7		7		1	1	1	73
VHF, Portable, Low-Power		42			4		4							50
VHF, Portable, Very-Low-Power		9			8									17
VHF, Vehicle Mount, Medium-Power	2	94	33	27	22	13	11	13	8	3		6		232
HF, Manpack, Low-Power			2					4	2	1				9
HF, Vehicle Mount, Medium-Power		9	6		1		1	1	8					26
HF/VHF, Vehicle Mount, Medium-Power				4					2					6
HF/VHF, Vehicle Mount, High-Power									2					2
HF, Vehicle Mount, High-Power									1					1
Radio Relay, VHF/UHF									2					2
Warning Receiver		2	1	2	4		1		3					13
MISCELLANEOUS														
Rangefinder, Laser		2		7		1								10
Rangefinder, Laser, Binocular				9										9
GPS Receiver		2		32										34
Periscopic Aiming Circle		2												2
Collimator		12												12
Motorcycle									3					3

Mechanized Infantry Brigade (IFV) (Sep)



* A separate mechanized infantry brigade most likely has four mechanized infantry battalions and one 51-tank tank battalion. However, the mix might be three mechanized infantry battalions and two 31-tank tank battalions.

** When there is a single SP howitzer battalion, it may be either 122-mm or 152-mm, with 152-mm most likely. When there are two battalions, there may be one 122-mm and one 152-mm or, more likely, both 152-mm.

(continued)

Mechanized Infantry Brigade (IFV) (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x4)*	*Tank Bn*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Antitank Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ARMORED VEHICLES														
Medium Tank, T-64K/72K/80K			1											1
Medium Tank, T-64/72/80			50											50
ACV, BMP-1K/2K/3K*		8	1											9
IFV, BMP-1/2/3		164			6		4							174
ACV, BRM-1K/3K**		4					3							7
APC, BTR-60/70/80	1							3						4
ACV, BTR-60PBK/70K/80K	1													1
ACV, BTR (R-145BM)***		8	1					1	8					18
ACV, BTR (R-145BM)/BRDM-2U						1								1
ACV, BRDM-2U						4		1						5
ASC, BRDM-2							4							4
APC, BTR-60PA (FAC)	1													1
Chem Recon Vehicle, BRDM-2RKh/RKhM										4				4
Mobile Recon Post, PRP-3/4****				2		1								3
ACRV, 1V13/1V13M/1V22				6										6
ACRV, 1V14/1V14M/1V23				6										6
ACRV, 1V15/1V15M/1V24				2										2
ACRV, 1V16/1V16M/1V25				2										2
ACV, PPRU*****					2									2
ACV, BTR-60 (PU-12)					4									4
Prime Mover, MT-LBT						14								14
Armored Recovery Vehicle												5		5
Armored Maintenance Vehicle, MTP												18		18
Tractor, Artillery, AT-S												1		1
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		24												24
120-mm or 82-mm Mortar		24												24
152-mm SP Howitzer, 2S3/2S19				36										36
152-mm Laser-Guided Projectile Set				8										8
ATGM Manpack, AT-7/SAXHORN		36												36
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL						12								12
100/125-mm AT Gun, MT-12/2A45M						12								12
30-mm SP AA System, 2S6******					6									6
SAM, SA-13/GOPHER TELAR*******					6									6
SAM, SA-15/GAUNTLET TELAR********					8									8
SAM, Shoulder-Fired	3	36		36	24			3			3			105

* In lieu of one of these BMP command variants, some battalion headquarters may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

** This system includes the TALL MIKE battlefield surveillance radar.

*** Some IFV-equipped mechanized infantry battalions may use the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

**** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

***** This system includes the DOG EAR target acquisition radar.

****** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

******* This system includes a ranging radar.

******** This system includes the SCRUM HALF fire control/target acquisition radar.

(continued)

Mechanized Infantry Brigade (IFV) (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x4)*	*Tank Bn*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Antitank Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ENGINEER EQUIPMENT														
Bridge, Truck-Launched								4						4
Tracked Amphibian, K-61/PTS								12				1		13
Trailer, Amphibious, PKP								6						6
Tracked Ferry, GSP/PMM-2*								6						6
Assault Boat								10						10
Minelayer, GMZ								3						3
Mineclearer, MTK/MTK-2								2						2
Mineclearing Plow			15											15
Mine Roller-Plow								5						5
Mine Detector, DIM								3						3
Engineer Recon Vehicle, IRM								2						2
Armored Engineer Tractor, IMR								2						2
Ditching Machine, BTM/MDK								2						2
Route-Clearing Vehicle, BAT/PKT								2						2
Tractor								1						1
Truck, Water Purification								1						1
TRUCKS														
Truck, Utility	3	16				3		8	12	2	7	6	6	63
Truck, Light		52			7	4			7	3	33	4	4	114
Truck, Medium	1	16	11	40	6	13		18	9	6	158	24	21	323
Truck, Heavy												1		1
Truck, Heavy, with Crane								5						5
Truck, Crane					1			1			4	4		10
Truck, Crane Shovel								2						2
Truck, Decon, ARS-12U/14										8			3	11
Truck, Decon, DDA-53/66										4			1	5
Truck, Decon, TMS-65										2				2
Truck, Dump								1						1
Truck, POL (5,000-L)		12	8	8		3		5	3		160	4	2	205
Truck, POL (4,000-L)										2				2
Truck, Recovery												2		2
Truck, Water (2,000-L)										2	6	1	3	12
Tractor-Trailer, Lowboy												2		2
Van, Command	3													3
Van, Hospital													9	9
Van, Kitchen		4	1								2			7
Van, Light												4		4
Van, Maintenance		4	1	4		2		4	4		11	52	2	84
Van, Mobile Field Bakery											4			4
Van, Signal				8		2			33		1	1	1	46
Ambulance		4	1	2		1		2	1		1	1	12	25

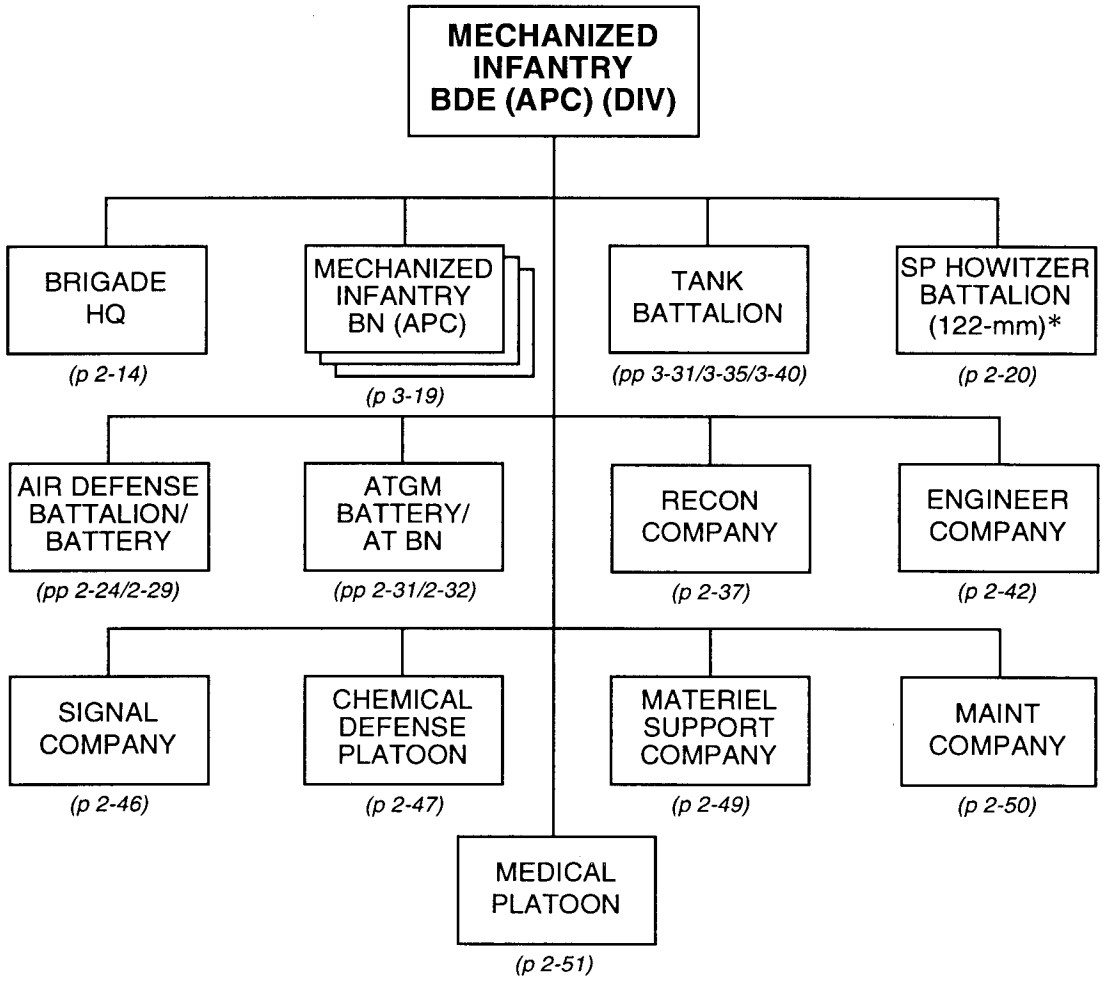
* With the PMM-2, there are a total of 8 ferries rather than 6.

(continued)

Mechanized Infantry Brigade (IFV) (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (IFV) (x4)*	*Tank Bn*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Antitank Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
TRAILERS														
Trailer, Cargo, 1-Axle		8	1					3	10		2			24
Trailer, Cargo, 2-Axle			10	34	5	10		3			124	16	10	212
Trailer, Compressor								1						1
Trailer, Decon, DDP													1	1
Trailer, Generator		4	1	4	2	1		3	10		6	9	3	43
Trailer, Kitchen		12		6	3	1		2	2			3	4	33
Trailer, POL (4,200-L)		12	8	8				5	3		160	4	2	202
Trailer, POL (1,200-L)		4				2								6
Trailer, Water (900-/1,200-L)		4	1	2		1		2	1	4	7	1	1	24
ELECTRONIC COMBAT SYSTEMS														
Radio Intercept/DF							3							3
Communications Jammer, VHF, R-330P							3							3
Communications Jammer, HF							1							1
Proximity Fuze Jammer, SPR-1/2							3							3
RADARS														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE						3	1							4
RADIOS														
VHF, Manpack, Low-Power	3	76	1	20	2	10	7	4	20	4	5	6	4	162
VHF, Portable, Low-Power		84			4		4							92
VHF, Portable, Very-Low-Power		16			8									24
VHF, Vehicle Mount, Medium-Power	3	188	53	54	32	31	21	23	6	4		23		438
HF, Manpack, Low-Power			2					10	6	2	1		1	22
HF, Vehicle Mount, Medium-Power	1	16	8		1	1	1	1	8			1		38
HF/VHF, Vehicle Mount, Medium-Power				8		3		2	7		1	1	1	23
HF/VHF, Vehicle Mount, High-Power								2	8					10
Radio Relay, VHF/UHF						1			6					7
Communications Center									2					2
Warning Receiver	1	4	1	4	6	1	1	1	3		1	1	1	25
MISCELLANEOUS														
SA-15 Missile Transloader (TELAR Chassis)					4									4
Rangefinder, Laser		4		14		3								21
Rangefinder, Laser, Binocular				18										18
GPS Receiver		4		64										68
Periscopic Aiming Circle		4		12										16
Collimator		24												24
Motorcycle									13			3		16

Mechanized Infantry Brigade (APC) (Div), MID



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* The mechanized infantry brigade (APC) may have a battalion of 122-mm towed howitzers (see p 2-22), instead of this SP howitzer battalion.

(continued)

Mechanized Infantry Brigade (APC) (Div), MID (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x3)*	*Tank Bn*	*122-mm SP How Bn*	*Air Defense Bn*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES														
Medium Tank, T-64K/72K/80K			1											1
Medium Tank, T-64/72/80			30											30
ACV, BMP-1K/2K/3K			1				3							4
IFV, BMP-1/2/3					6		4							10
ACV, BMP-1KSh									5					5
ACV, BRM-1K/3K*							3							3
APC, BTR-60/70/80	1	141												142
APC, BTR-60PBK/70K/80K		3												3
ACV, BTR (R-145BM)		9	1					1	3					14
APC, BTR-60PA (FAC)	1													1
ASC, BRDM-2							4							4
ACV, BRDM-2U						4								4
Chem Recon Vehicle, BRDM-2RKh/RKhM										3				3
Mobile Recon Post, PRP-3/4**				1										1
ACRV, 1V13/1V13M/1V22				3										3
ACRV, 1V14/1V14M/1V23				3										3
ACRV, 1V15/1V15M/1V24				1										1
ACRV, 1V16/1V16M/1V25				1										1
ACV, PPRU***					2									2
ACV, BTR-60 (PU-12)					2									2
Armored Recovery Vehicle												3		3
Armored Maintenance Vehicle, MTP												3		3
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		18												18
120-mm or 82-mm Mortar		18												18
122-mm SP Howitzer, 2S1				18										18
122-mm Laser-Guided Projectile Set				4										4
73-mm Recoilless Gun, SPG-9		9												9
ATGM Manpack, AT-4/SPIGOT		18												18
ATGM Manpack, AT-7/SAXHORN		27												27
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL						9								9
30-mm SP AA System, 2S6****					6									6
SAM, SA-13/GOPHER TELAR*****					6									6
SAM, Shoulder-Fired	3	27		18	18									66
ENGINEER EQUIPMENT														
Bridge, Tank-Launched								1						1
Bridge, Truck-Launched								4						4
Minelayer, GMZ								3						3
Mineclearing Plow			9											9
Mine Roller-Plow								3						3
Mine Detector, DIM								1						1
Armored Engineer Tractor, IMR								1						1
Ditching Machine, BTM/MDK								1						1
Ditching Machine, PZM/TMK								3						3
Route-Clearing Vehicle, BAT								1						1
Truck, Water Purification								1						1

* This system includes the TALL MIKE battlefield surveillance radar.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** This system includes the DOG EAR target acquisition radar.

**** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

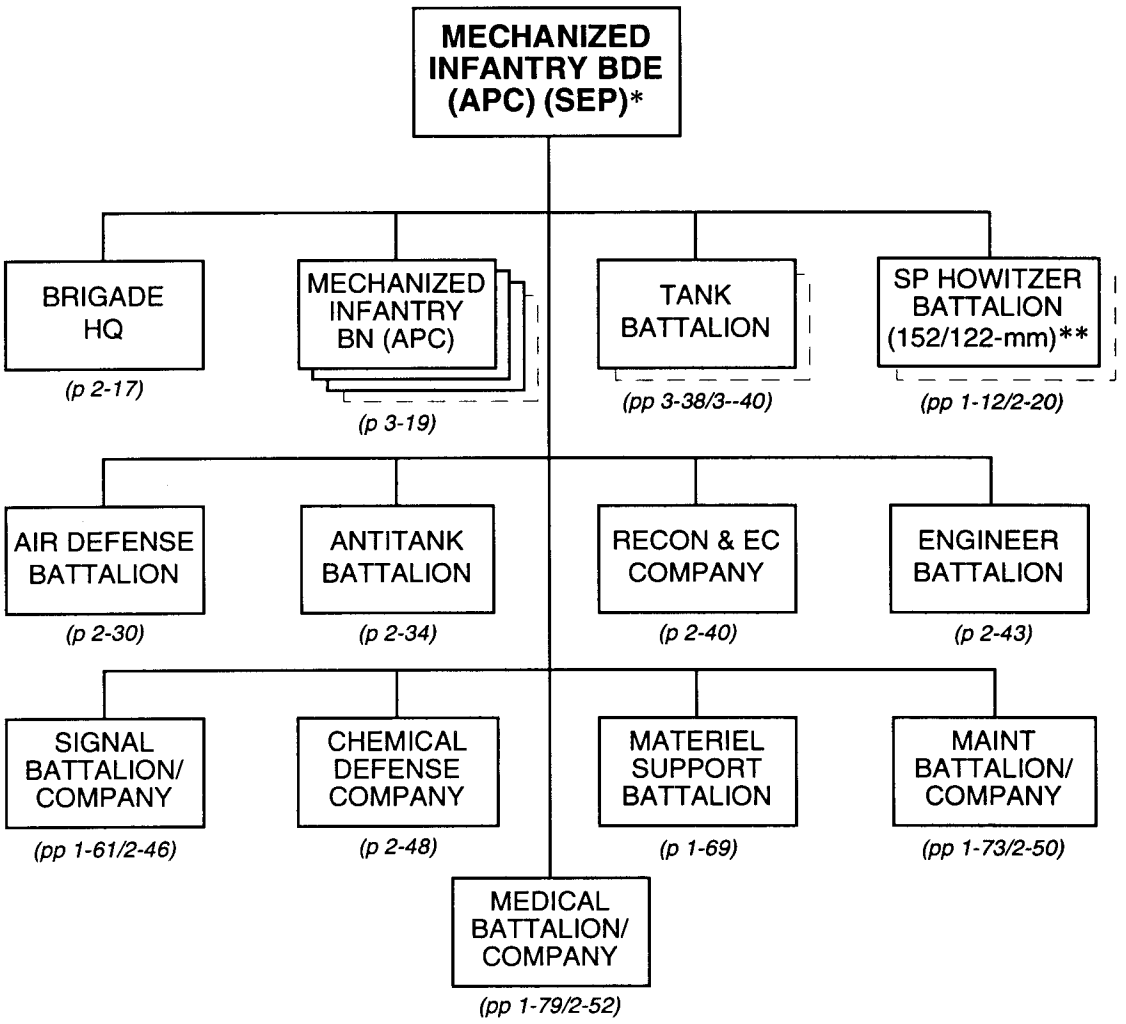
***** This system includes a ranging radar.

(continued)

Mechanized Infantry Brigade (APC) (Div), MID (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x3)*	*Tank Bn*	*122-mm SP How Bn*	*Air Defense Bn*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRUCKS														
Truck, Utility	3	12						4	5		2	1		27
Truck, Light		39		4	3				3		4		1	54
Truck, Medium	1	12	7	14	4	3		8			45	2	2	98
Truck, Heavy, with Crane								3						3
Truck, Crane								1						1
Truck, Crane Shovel								1						1
Truck, Decon, ARS-12U/14										3				3
Truck, Decon, DDA-53/66										1			1	2
Truck, Dump								2						2
Truck, POL (5,000-L)		9	5	2	2						15			33
Truck, Water (2,000-L)										2	4			6
Van, Command	3													3
Van, Hospital													1	1
Van, Kitchen		3	1											4
Van, Maintenance		3	1	2				1			1	12		20
Van, Signal				4					5					9
Ambulance		3	1	1									4	9
TRAILERS														
Trailer, Cargo, 1-Axle		6	1					6						13
Trailer, Cargo, 2-Axle			6	16				2			30	6		60
Trailer, Generator		3	1	2	2				1		1	3		13
Trailer, Kitchen		9		3							2		1	15
Trailer, POL (4,200-L)		9	4	2							15			30
Trailer, Water (900/1,200-L)		3	1	1						2	1		1	9
RADAR														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		3				1	1							5
RADIOS														
VHF, Manpack, Low-Power	3	48	1	10		4	7		7		1	1	1	83
VHF, Portable, Low-Power		87			4		4							95
VHF, Portable, Very-Low-Power		12			8									20
VHF, Vehicle Mount, Medium-Power	2	156	33	27	22	13	11	13	8	3		6		294
HF, Manpack, Low-Power			2					4	2	1				9
HF, Vehicle Mount, Medium-Power		12	6		1		1	1	8					29
HF/VHF, Vehicle Mount, Medium-Power				4					2					6
HF/VHF, Vehicle Mount, High-Power									2					2
HF, Vehicle Mount, High-Power									1					1
Radio Relay, VHF/UHF									2					2
Warning Receiver		3	1	2	4		1		3					14
MISCELLANEOUS														
Rangefinder, Laser		3		7		1								11
Rangefinder, Laser, Binocular				9										9
GPS Receiver		3		32										35
Periscopic Aiming Circle		3		6										9
Collimator		18												18
Motorcycle									3					3

Mechanized Infantry Brigade (APC) (Sep)



* A separate mechanized infantry brigade most likely has four mechanized infantry battalions and one 51-tank tank battalion. However, the mix might be three mechanized infantry battalions and two 31-tank tank battalions.

** When there is a single SP howitzer battalion, it may be either 122-mm or 152-mm, with 152-mm most likely. When there are two battalions, there may be one 122-mm and one 152-mm or, more likely, both 152-mm.

(continued)

Mechanized Infantry Brigade (APC) (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x4)*	*Tank Bn*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Antitank Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ARMORED VEHICLES														
Medium Tank, T-64K/72K/80K			1											1
Medium Tank, T-64/72/80			50											50
ACV, BMP-1K/2K/3K			1											1
AICV, BMP-1/2/3					6		4							10
ACV, BRM-1K/3K*							3							3
APC, BTR-60/70/80	1	188						3						192
ACV, BTR-60PBK/70K/80K	1	4												5
ACV, BTR (R-145BM)		12	1					1	8					22
ACV, BTR (R-145BM)/BRDM-2U						1								1
ACV, BRDM-2U						4		1						5
ASC, BRDM-2							4							4
APC, BTR-60PA (FAC)	1													1
Chem Recon Vehicle, BRDM-2RKh/RKhM										4				4
Mobile Recon Post, PRP-3/4**				2		1								3
ACRV, 1V13/1V13M/1V22				6										6
ACRV, 1V14/1V14M/1V23				6										6
ACRV, 1V15/1V15M/1V24				2										2
ACRV, 1V16/1V16M/1V25				2										2
ACV, PPRU***					2									2
ACV, BTR-60 (PU-12)					4									4
Prime Mover, MT-LBT						14								14
Armored Recovery Vehicle												5		5
Armored Maintenance Vehicle, MTP												18		18
Tractor, Artillery, AT-S												1		1
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		24												24
120-mm or 82-mm Mortar		24												24
152-mm SP Howitzer, 2S3/2S19				36										36
152-mm Laser-Guided Projectile Set				8										8
73-mm Recoilless Gun, SPG-9		12												12
ATGM Manpack, AT-4/SPIGOT		24												24
ATGM Manpack, AT-7/SAXHORN		36												36
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL						12								12
100/125-mm AT Gun, MT-12/2A45M						12								12
30-mm SP AA System, 2S6****					6									6
SAM, SA-13/GOPHER TELAR*****					6									6
SAM, SA-15/GAUNTLET TELAR******					8									8
SAM, Shoulder-Fired	3	36		36	24			3			3			105

* This system includes the TALL MIKE battlefield surveillance radar.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** This system includes the DOG EAR target acquisition radar.

**** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

***** This system includes a ranging radar.

****** This system includes the SCRUM HALF fire control/target acquisition radar.

(continued)

Mechanized Infantry Brigade (APC) (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x4)*	*Tank Bn*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Antitank Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ENGINEER EQUIPMENT														
Bridge, Truck-Launched								4						4
Tracked Amphibian, K-61/PTS								12				1		13
Trailer, Amphibious, PKP								6						6
Tracked Ferry, GPS/PMM-2*								6						6
Assault Boat								10						10
Minelayer, GMZ								3						3
Mineclearer, MTK/MTK-2								2						2
Mineclearing Plow			15											15
Mine Roller-Plow								5						5
Mine Detector, DIM								3						3
Engineer Recon Vehicle, IRM								2						2
Armored Engineer Tractor, IMR								2						2
Ditching Machine, BTM/MDK								2						2
Route-Clearing Vehicle, BAT/PKT								2						2
Tractor								1						1
Truck, Water Purification								1						1
TRUCKS														
Truck, Utility	3	16				3		8	12	2	7	6	6	63
Truck, Light		52			7	4			7	3	33	4	4	114
Truck, Medium	1	16	11	40	6	13		18	9	6	158	24	21	323
Truck, Heavy												1		1
Truck, Heavy, with Crane								5						5
Truck, Crane					1			1			4	4		10
Truck, Crane Shovel								2						2
Truck, Decon, ARS-12U/14										8			3	11
Truck, Decon, DDA-53/66										4			1	5
Truck, Decon, TMS-65										2				2
Truck, Dump								1						1
Truck, POL (5,000-L)		12	8	8		3		5	3		160	4	2	205
Truck, POL (4,000-L)										2				2
Truck, Recovery												2		2
Truck, Water (2,000-L)										2	6	1	3	12
Tractor-Trailer, Lowboy												2		2
Van, Command	3													3
Van, Hospital													9	9
Van, Kitchen		4	1								2			7
Van, Light												4		4
Van, Maintenance		4	1	4		2		4	4		11	52	2	84
Van, Mobile Field Bakery											4			4
Van, Signal				8		2		2	33		1	1	1	48
Ambulance		4	1	2		1			1		1	1	12	23

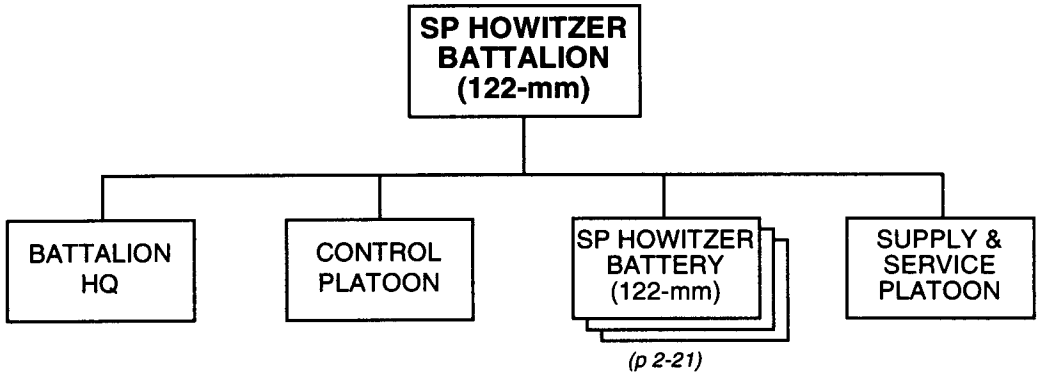
* With the PMM-2, there are a total of 8 ferries rather than 6.

(continued)

Mechanized Infantry Brigade (APC) (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x4)*	*Tank Bn*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Antitank Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
TRAILERS														
Trailer, Cargo, 1-Axle		8	1					3	10		2			24
Trailer, Cargo, 2-Axle			10	34	5	10		3			124	16	10	212
Trailer, Decon, DDP													1	1
Trailer, Compressor								1						1
Trailer, Generator		4	1	4	2	1		3	10		6	9	3	43
Trailer, Kitchen		12		6	3	1		2	2			3	4	33
Trailer, POL (4,200-L)		12	8	8				5	3		160	4	2	202
Trailer, POL (1,200-L)		4				2								6
Trailer, Water (900-/1,200-L)		4	1	2		1		2	1	4	7	1	1	24
ELECTRONIC COMBAT SYSTEMS														
Radio Intercept/DF							3							3
Communications Jammer, VHF, R-330P							3							3
Communications Jammer, HF							1							1
Proximity Fuze Jammer, SPR-1/2							3							3
RADARS														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		4				3	1							8
RADIOS														
VHF, Manpack, Low-Power	3	64	1	20	2	10	7	4	20	4	5	6	4	150
VHF, Portable, Low-Power		116			4		4							124
VHF, Portable, Very-Low-Power		16			8									24
VHF, Vehicle Mount, Medium-Power	3	208	53	54	32	31	21	23	6	4		23		458
HF, Manpack, Low-Power			2					10	6	2	1		1	22
HF, Vehicle Mount, Medium-Power	1	16	8		1	1	1	1	8			1		38
HF/VHF, Vehicle Mount, Medium-Power				8		3		2	7		1	1	1	23
HF/VHF, Vehicle Mount, High-Power								2	8					10
Radio Relay, VHF/UHF						1			6					7
Communications Center									2					2
Warning Receiver	1	4	1	4	6	1	1	1	3		1	1	1	25
MISCELLANEOUS														
SA-15 Missile Transloader (TELAR Chassis)					4									4
Rangefinder, Laser		4		14		3								21
Rangefinder, Laser, Binocular				18										18
GPS Receiver		4		64										68
Periscopic Aiming Circle		4		12										16
Collimator		24												24
Motorcycle									13			3		16

122-mm Self-Propelled Howitzer Battalion, MIBR and TBR



(p 2-21)

PRINCIPAL ITEMS OF EQUIPMENT

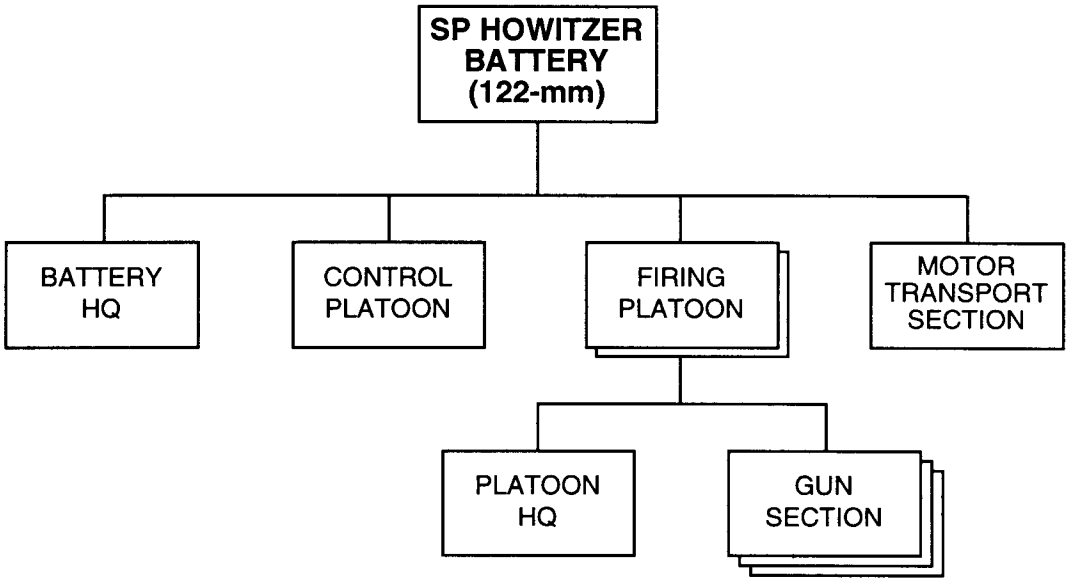
Equipment	Total
122-mm SP Howitzer, 2S1	18
122-mm Laser-Guided Projectile Set, Kitolov-2M*	4
ACRV, 1V13/1V13M/1V22 (Btry FDC)	3
ACRV, 1V14/1V14M/1V23 (Btry COP)	3
ACRV, 1V15/1V15M/1V24 (Bn COP)	1
ACRV, 1V16/1V16M/1V25 (Bn FDC)	1
Mobile Recon Post, PRP-3/4**	1
7.62-mm GP MG, PKM	18
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Light	4
Truck, Medium	14
Truck, POL (5,000-Liter)	2
Van, Maintenance	2
Van, Signal	4
Ambulance	1

Equipment	Total
Trailer, Cargo, 2-Axle	16
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	27
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all SP howitzer battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2S1), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

122-mm Self-Propelled Howitzer Battery, 122-mm SP How Bn

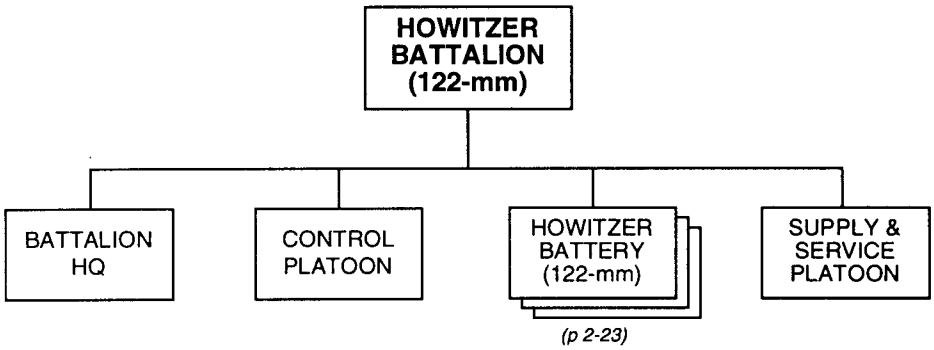


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm SP Howitzer, 2S1	6
ACRV, 1V13/1V13M/1V22 (Btry FDC)	1
ACRV, 1V14/1V14M/1V23 (Btry COP)	1
7.62-mm GP MG, PKM	6
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	3
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2

Equipment	Total
Rangefinder, Laser, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	8
HF/VHF, Vehicle Mount, Medium-Power	1

122-mm Howitzer Battalion (18-Tube), MIBR (APC) (Div) or 122-mm How Bde



(p 2-23)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm Howitzer, D-30	18
122-mm Laser-Guided Projectile Set, Kitolov-2M*	4
ACRV, 1V18/1V152 (Btry COP)**	3
ACRV, 1V19/1V152 (Bn COP)**	1
ACRV, 1V110/1V153 (Btry FDC)**	3
ACRV, 1V111/1V153 (Bn FDC)**	1
Mobile Recon Post, PRP-3/4***	1
7.62-mm GP MG, PKM	18
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Light	9
Truck, Medium	34
Truck, POL (5,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1

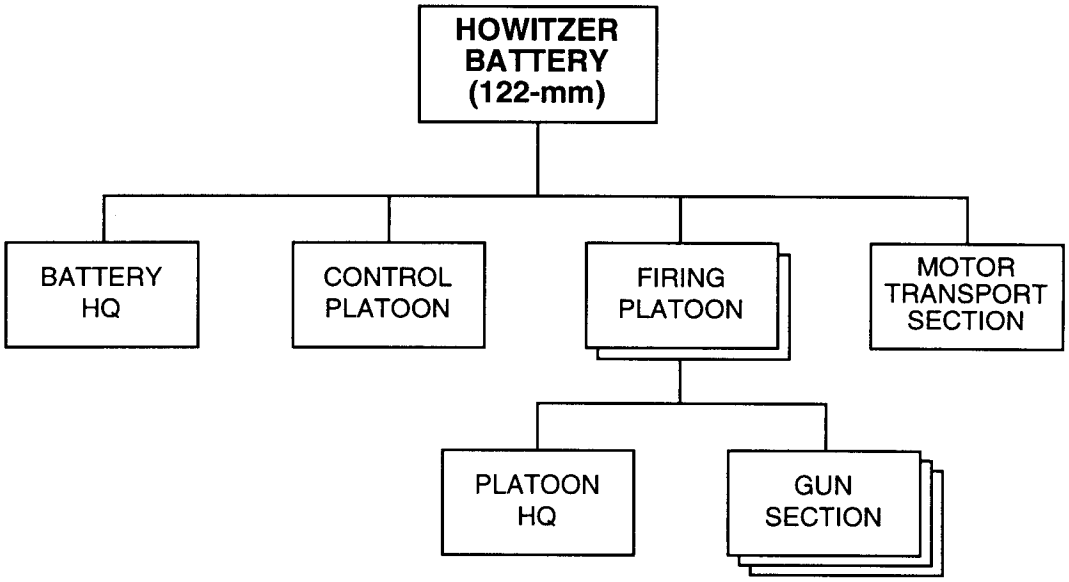
Equipment	Total
Trailer, Cargo, 2-Axle	14
Trailer, Generator	2
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very Low-Power	23
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all howitzer battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (D-30), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V52 and 1V53 ACRVs are part of the Kapustnik-B automated fire control system.

*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

122-mm Howitzer Battery (6-Tube), 122-mm How Bn (18-Tube)



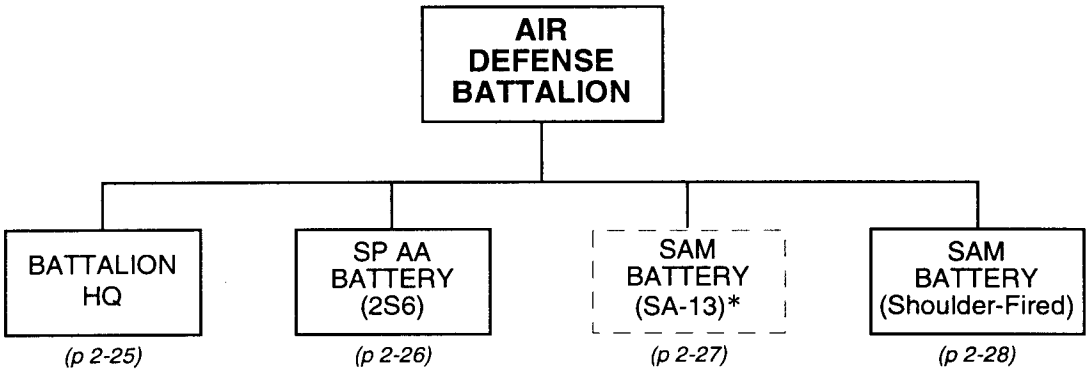
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm Howitzer, D-30	6
ACRV, 1V18/1V152 (Btry COP)**	1
ACRV, 1V110/1V153 (Btry FDC)**	1
7.62-mm GP MG, PKM	6
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	8
Van, Signal	1
Trailer, Cargo, 2-Axle	2
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	7
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

Air Defense Battalion, MIBR (Div) and TBR (Div)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm SP AA System, 2S6**	6
SAM, SA-13/GOPHER TELAR***	6
SAM, Shoulder-Fired	18
IFV, BMP-2/3****	6
ACV, PPRU*****	2
ACV, BTR-60 (PU-12)	2
Truck, Light	3
Truck, Medium	4
Truck, POL (5,000-Liter)	2

Equipment	Total
Trailer, Generator	2
Radios:	
VHF, Portable, Low-Power	4
VHF, Portable, Very Low-Power	8
VHF, Vehicle Mount, Medium-Power	22
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	4

* Some air defense battalions may not include the SA-13-equipped SAM battery.

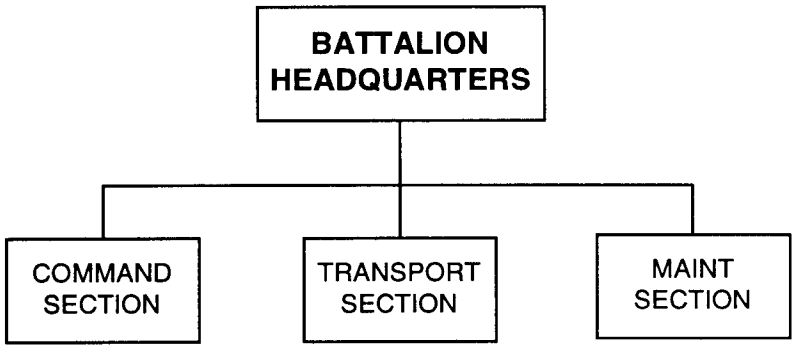
** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

*** This system includes a ranging radar.

**** In the mechanized infantry brigade (APC), this battalion may have six BTR-60/70/80 APCs in lieu of the BMP-2/3 in the shoulder-fired SAM battery.

***** This system includes the DOG EAR target acquisition radar.

Battalion Headquarters, Air Defense Bn



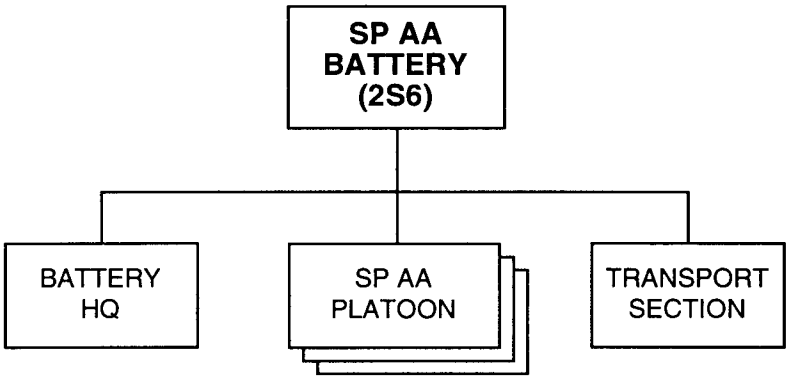
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, PPRU*	1
Truck, Medium	4
Trailer, Generator	2

Equipment	Total
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	1
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

* This system includes the DOG EAR target acquisition radar.

Self-Propelled Antiaircraft Battery (2S6), Air Defense Bn



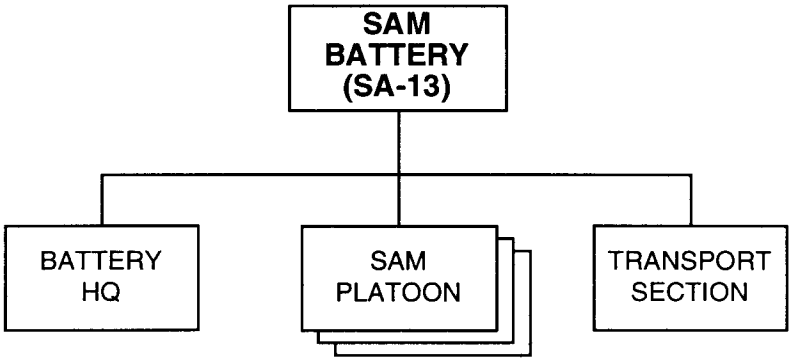
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm SP AA System, 2S6*	6
ACV, BTR-60 (PU-12)	1
Truck, Light	1
Truck, Medium	4
Trailer, Generator	2

Equipment	Total
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	7
Warning Receiver	1

* This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

SAM Battery (SA-13), Air Defense Bn



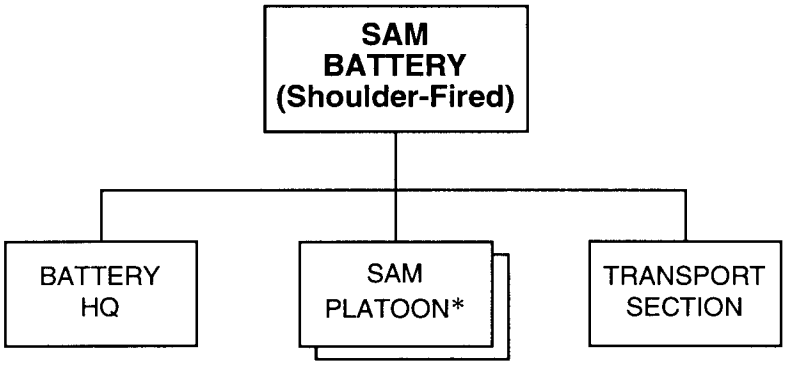
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, SA-13/GOPHER TELAR*	6
ACV, PPRU**	1
Truck, Light	1

Equipment	Total
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	7
Warning Receiver	1

* This system includes a ranging radar.
** This system includes the DOG EAR target acquisition radar.

SAM Battery (Shoulder-Fired), Air Defense Bn



PRINCIPAL ITEMS OF EQUIPMENT

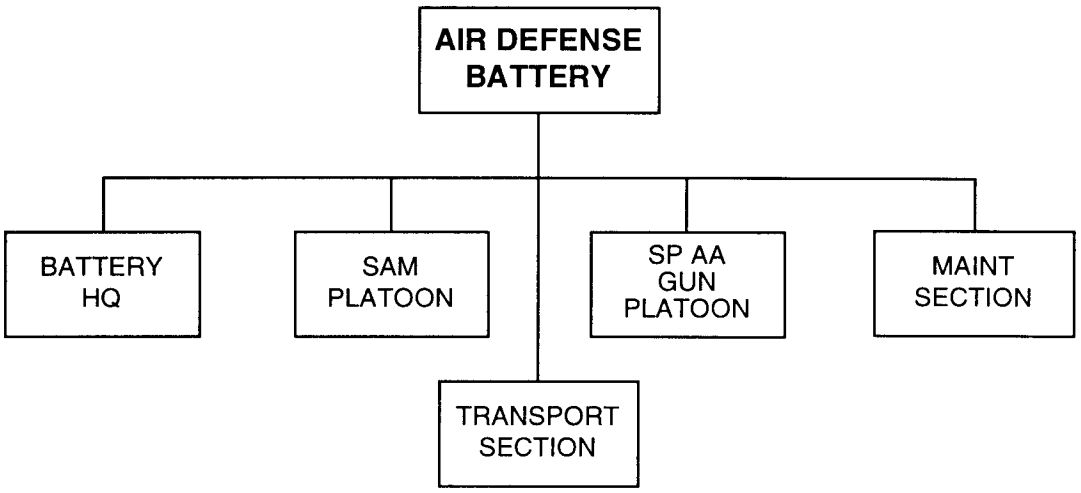
Equipment	Total
SAM, Shoulder-Fired	18
IFV, BMP-2/3	6 **
ACV, BTR-60 (PU-12)	1
Truck, Light	1

Equipment	Total
Radios:	
VHF, Portable, Low-Power	1
VHF, Portable, Very-Low-Power	8
VHF, Vehicle Mount, Medium-Power	7
Warning Receiver	1

* This SAM platoon differs from the one in an IFV-equipped mechanized infantry battalion (p 3-11) only by the fact that it tends to use IFVs mounting a 30-mm automatic cannon capable of air defense missions in its own right.

** In the mechanized infantry brigade (APC), this battery may have BTR-60/70/80 APCs in lieu of the IFVs. In that case the SAM platoons would be similar to the one in an APC-equipped mechanized infantry battalion (p 3-25).

Air Defense Battery, MIBR (Div) and TBR (Div)



PRINCIPAL ITEMS OF EQUIPMENT

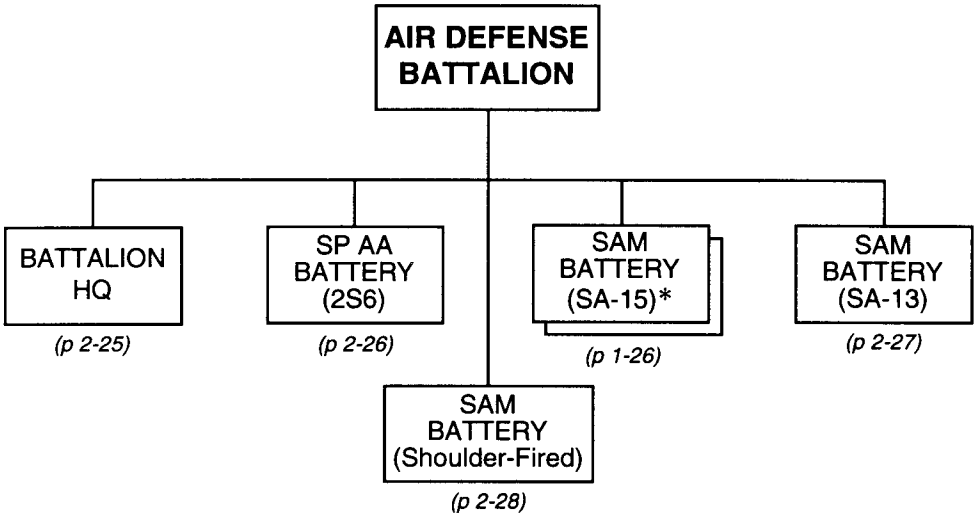
Equipment	Total
SAM, SA-9/GASKIN TEL or SA-13/GOPHER TELAR*	4
23-mm SP AA Gun, ZSU-23-4**	4
ACV, BTR-60 (PU-12)***	3
Truck, Light	2
Truck, Medium	2
Van, Maintenance	2
Trailer, Generator	2
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	11
Warning Receiver	3

* The SA-13 system includes a ranging radar.

** This system includes the GUN DISH fire control radar. In lieu of the ZSU-23-4, some batteries may have the 30-mm SP AA system 2S6, which includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

*** If the battery has tracked SA-13 and/or 2S6 systems, the ACV may be the tracked PPRU, which includes a DOG EAR target acquisition radar.

Air Defense Battalion, MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm SP AA System, 2S6**	6
SAM, SA-15/GAUNTLET TELAR***	8
SAM, SA-13/GOPHER TELAR****	6
SAM, Shoulder-Fired	24
IFV, BMP-2/3	6
ACV, PPRU*****	2
ACV, BTR-60 (PU-12)	4
SA-15 Missile Transloader (TELAR Chassis)	4
Truck, Crane	1
Truck, Light	7
Truck, Medium	6

Equipment	Total
Trailer, Cargo, 2-Axle	5
Trailer, Generator	2
Trailer, Kitchen	3
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	8
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	32
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	6

* In some separate mechanized infantry brigades, the air defense battalion may have SA-8-equipped SAM batteries (see p 1-32) rather than the SA-15 batteries shown here.

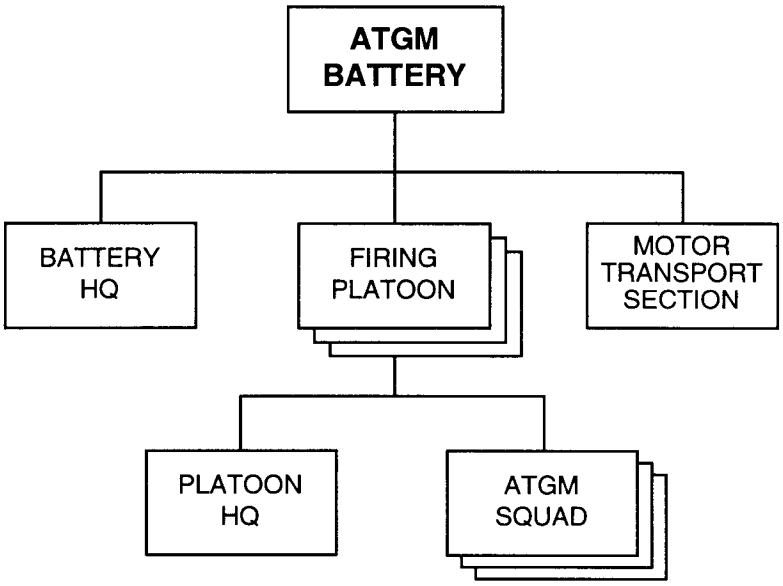
** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

*** This system includes the SCRUM HALF fire control/target acquisition radar.

**** This system includes a ranging radar.

***** This system includes the DOG EAR target acquisition and fire control radar.

ATGM Battery, MIBR (Div) or AT Bn, MIBR (Div) or MID

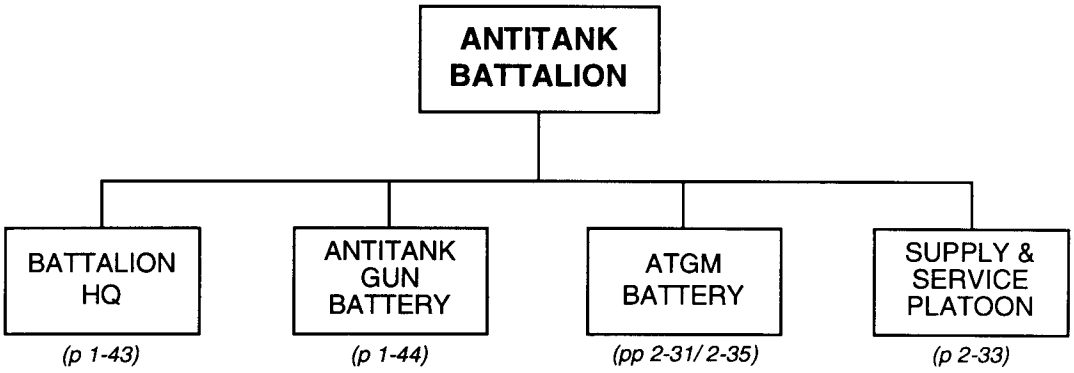


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM, Vehicle, 9P148 w/ AT-5/SPANDREL	9
ATGL, RPG-7V	9
ACV, BRDM-2U	4
Truck, Medium	3
Rangefinder, Laser, 1D8/1D12	1

Equipment	Total
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	13

Antitank Battalion, MIBR (Div)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL	9-12
100/125-mm Antitank Gun, MT-12/2A45M	6
ACV, BTR (R-145BM)/BRDM-2U	1
ACV, BRDM-2U	4
ATGL, RPG-7V	9-12
Mobile Recon Post, PRP-3/4**	1
Prime Mover, MT-LBT	7
Truck, Utility	3
Truck, Light	4
Truck, Medium	11
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	9

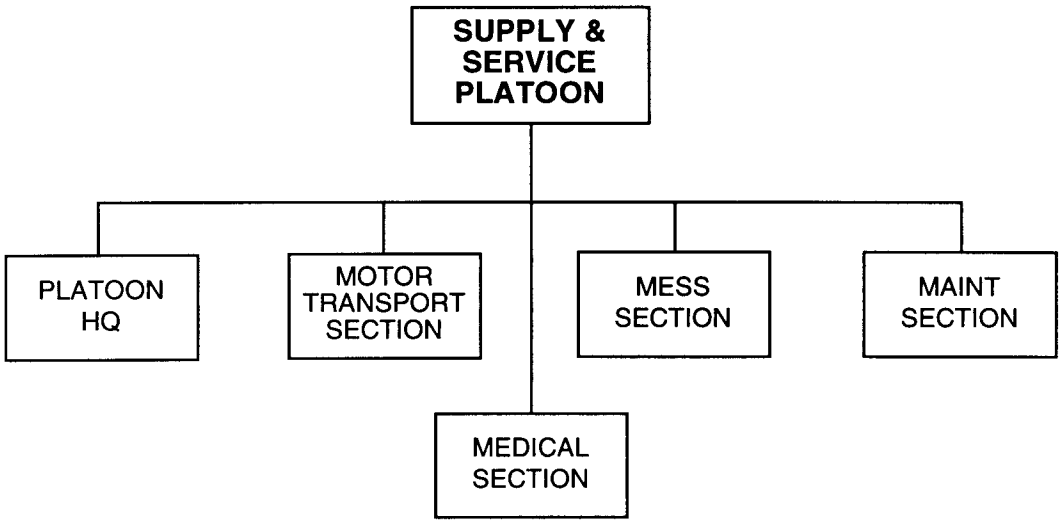
Equipment	Total *
Trailer, Generator	1
Trailer, Kitchen	1
Trailer, POL (1,200-/4,200-Liter)***	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	2
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	2
Radios:	
VHF, Manpack, Low-Power	9
VHF, Vehicle Mount, Medium-Power	22-25
HF/VHF, Vehicle Mount, Medium-Power	3
HF, Vehicle Mount, Medium-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	1

* Equipment totals can vary, depending on whether the battalion's ATGM battery has 9 or 12 ATGM vehicles.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** The size of this POL trailer depends on whether the battalion's ATGM battery has 9 or 12 ATGM vehicles.

Supply and Service Platoon, AT Bn, MIBR (Div)

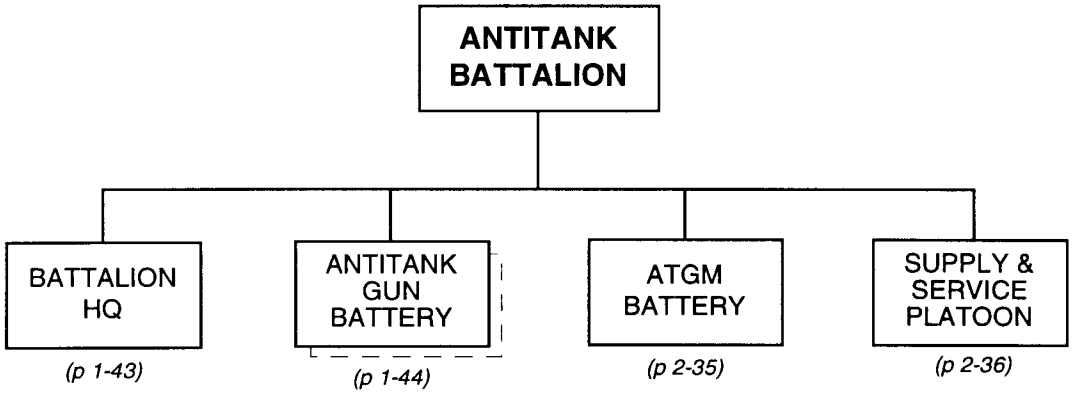


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Light	4
Truck, Medium	7
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1
Trailer, Kitchen	1
Trailer, POL (1,200-/4,200-Liter)*	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	1

* The size of the POL trailer depends on whether the battalion's ATGM battery has 9 or 12 ATGM vehicles.

Antitank Battalion, MIBR (Sep)



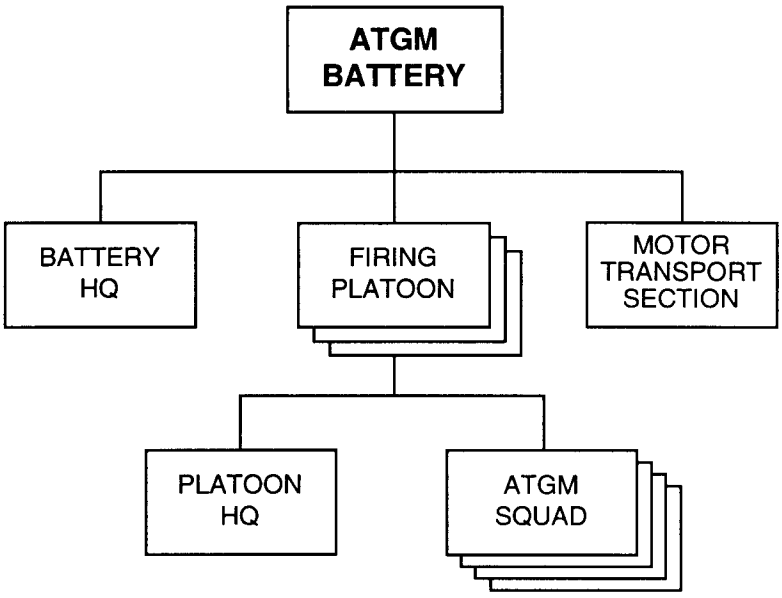
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATGM Vehicle , 9P148 w/ AT-5/SPANDREL	12
100/125-mm Antitank Gun, MT-12/2A45M	6-12
ATGL, RPG-7V	12
ACV, BTR (R-145BM)/BRDM-2U	5
ACV, BRDM-2U	4
Mobile Recon Post, PRP-3/4**	1
Prime Mover, MT-LBT	7-14
Truck, Utility	3
Truck, Light	4
Truck, Medium	10-13
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	9-10
Trailer, Generator	1
Trailer, Kitchen	1
Trailer, POL (1,200-Liter)	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	2-3
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	2-3
Radios:	
VHF Manpack, Low-Power	9-10
VHF, Vehicle Mount, Medium-Power	24-31
HF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* Equipment totals can vary, depending on whether the battalion has one or two antitank gun batteries.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

ATGM Battery, AT Bn, MIBR or MID

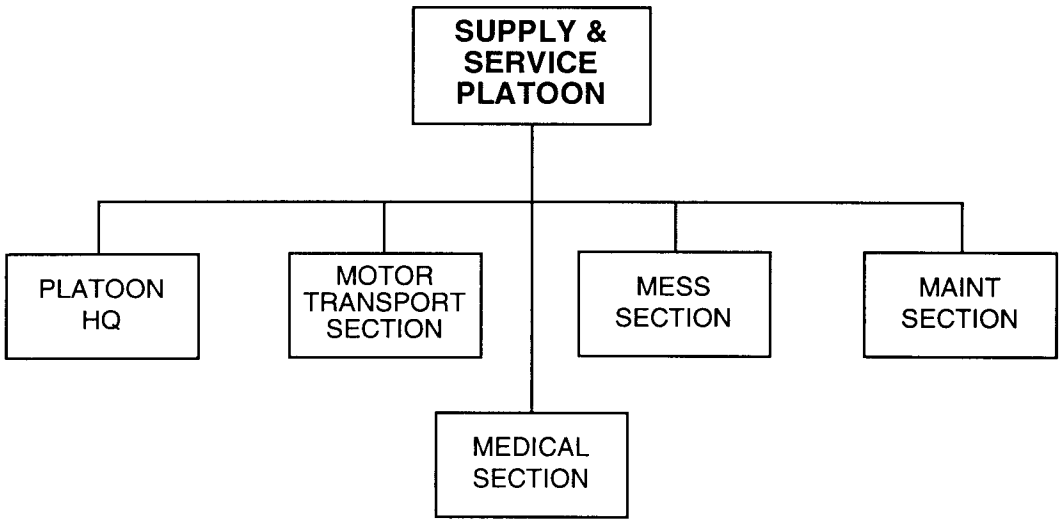


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM, Vehicle, 9P148 w/ AT-5/SPANDREL	12
ATGL, RPG-7V	12
ACV, BRDM-2U	4
Truck, Medium	4
Rangefinder, Laser, 1D8/1D12	1

Equipment	Total
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	16

Supply and Service Platoon, AT Bn, MIBR (Sep)

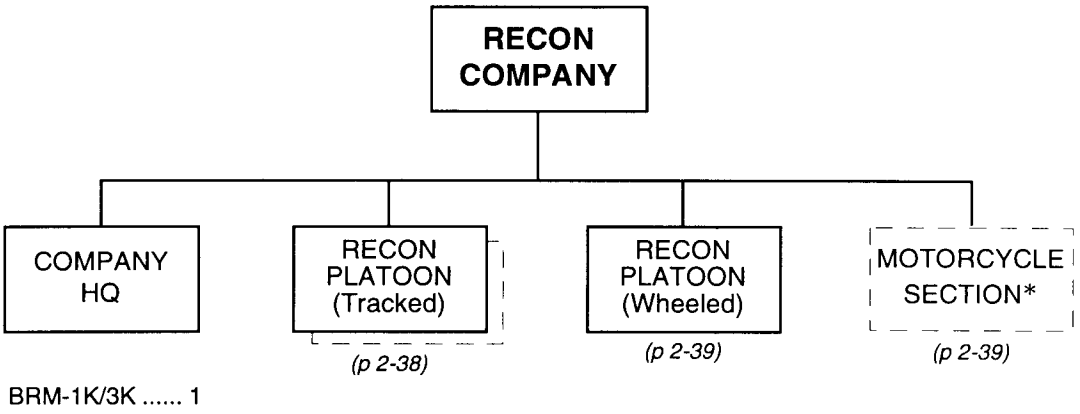


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
Truck, Utility	1
Truck, Light	4
Truck, Medium	5-7
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1
Trailer, Kitchen	1
Trailer, POL (1,200-Liter)	1-2
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	1

* Equipment totals can vary, depending on whether the battalion has one or two antitank gun batteries.

Reconnaissance Company, MIBR (Div) and TBR (Div)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total **
ACV, BRM-1K/3K***/****	2-3
IFV, BMP-1/2/3***	2-4
ASC, BRDM-2	4
9-mm Pistol, PM	13-22
5.45-mm Assault Rifle, AK-74	25-34
5.45-mm LMG, RPK-74	4-7
40-mm Under-Barrel Grenade Launcher, GP-25/30	10-15
ATRL, RPG-22/26	8-11
ATGL, RPG-7V	4-7
Flamethrower, RPO	4-7
Night-Vision Goggles	8-11
Night-Vision Sight (Small Arms)	8-11
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Manpack, Low-Power	4-7
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	8-11
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

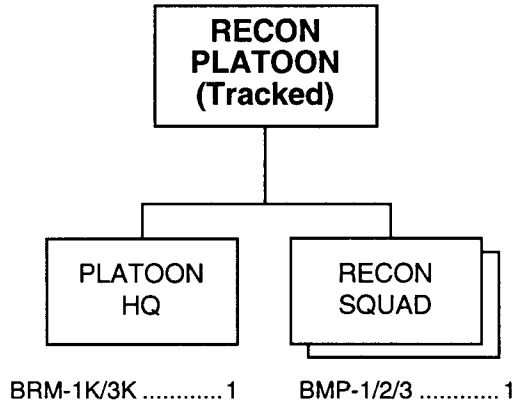
* Although some reconnaissance companies have a motorcycle section, equipment totals on this page do no include that section.

** Equipment totals can vary, depending on whether the company has one or two tracked reconnaissance platoons.

*** The mix of IFVs and ACVs within a tracked reconnaissance platoon can vary.

**** This system includes the TALL MIKE battlefield surveillance radar.

Reconnaissance Platoon (Tracked), Recon Co or Recon and EC Co



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BRM-1K/3K*/**	1
IFV, BMP-1/2/3*	2
9-mm Pistol, PM	9
5.45-mm Assault Rifle, AK-74	9
5.45-mm LMG, RPK-74	3
ATGL, RPG-7V***	3
ATRL, RPG-22/26	3
Flamethrower, RPO	3

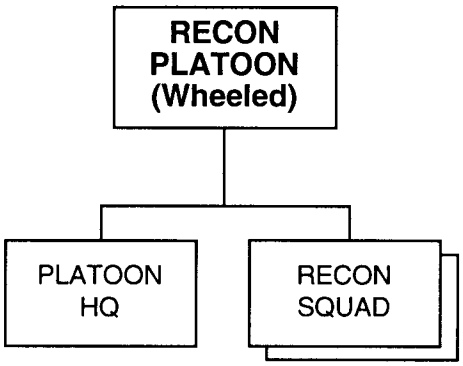
Equipment	Total
40-mm Under-Barrel Grenade Launcher, GP-25/30	5
Night-Vision Goggles	3
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	3

* The mix of BRM-1K/3K and BMP vehicles can vary.

** This vehicle includes the TALL MIKE battlefield surveillance radar.

*** In units equipped with the BRM-3K, an ATGM manpack launcher (AT-4/SPIGOT or AT-7/SAXHORN) may replace the one ATGL in that vehicle.

Reconnaissance Platoon (Wheeled), Recon Co, MIBR and TBR, or Recon and EC Co

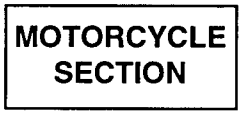


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ASC, BRDM-2	4
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	15
40-mm Under-Barrel Grenade Launcher, GP-25/30	4
ATRL, RPG-22/26	4
Night-Vision Goggles	4

Equipment	Total
Night-Vision Sight (Small Arms)	4
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	4

Motorcycle Section, Recon Co or Recon and EC Co

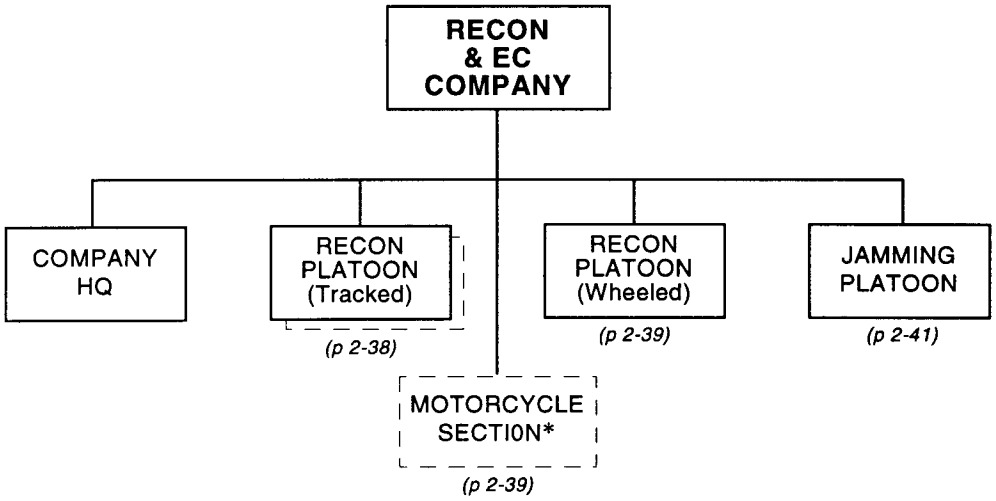


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Motorcycle	3
5.45-mm Assault Rifle, AK-74	6
40-mm Under-Barrel Grenade Launcher, GP-25/30	1

Equipment	Total
Night-Vision Goggles	1
Radio, VHF, Portable, Low-Power	1

Reconnaissance and Electronic Combat Company, MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total **
ACV, BRM-1K/3K***/****	2-3
IFV, BMP-1/2/3***	2-4
ASC, BRDM-2	4
9-mm Pistol, PM	13-22
5.45-mm Assault Rifle	25-34
5.45-mm LMG, RPK-74	4-7
40-mm Under-Barrel Grenade Launcher, GP-25/30	10-15
ATGL, RPG-7V	4-7
ATRL, RPG-22/26	8-11
Flamethrower	4-7
Night-Vision Goggles	8-11
Night-Vision Sight (Small Arms)	8-11
Radio Intercept/Direction Finder	3

Equipment	Total **
Communications Jammer, VHF, R-330P	3
Communications Jammer, HF	1
Proximity Fuze Jammer, SPR-1/2	3
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Manpack, Low-Power	4-7
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	18-21
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

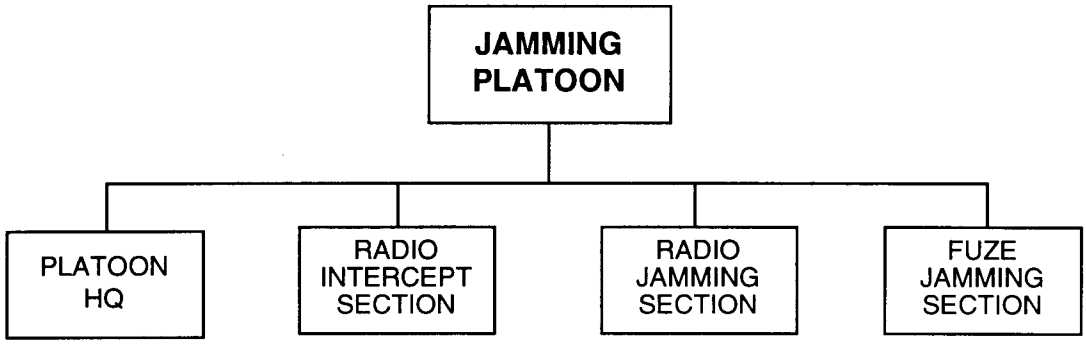
* Although some reconnaissance and EC companies have a motorcycle section, equipment totals on this page do not include that section.

** Equipment totals can vary depending on whether the company has one or two tracked reconnaissance platoons. Totals for small arms and night-vision devices do not include the jamming platoon, where such equipment varies.

*** The mix of IFVs and ACVs within a tracked reconnaissance platoon can vary. The company headquarters always has one ACV.

**** This system includes the TALL MIKE battlefield surveillance radar.

Jamming Platoon, Recon and EC Co

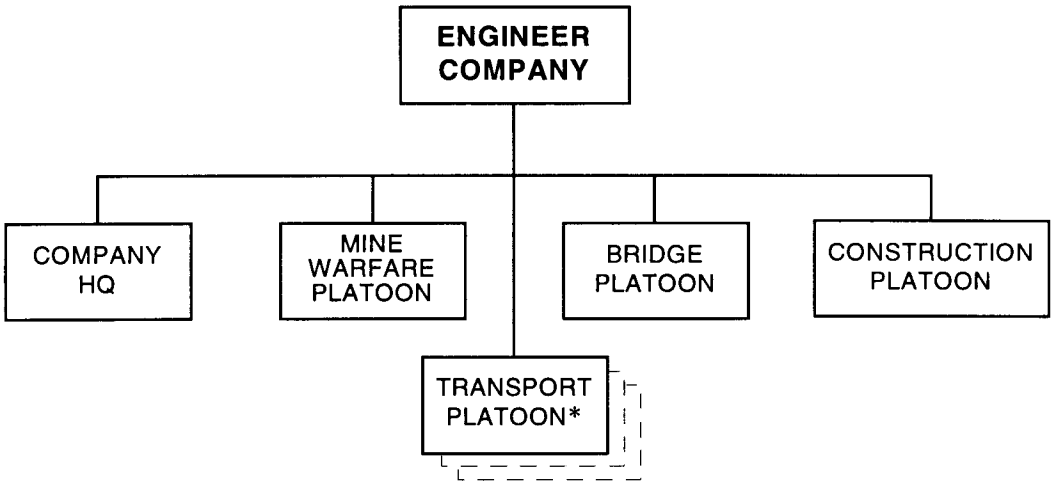


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radio Intercept/Direction Finder*	3
Communications Jammer, VHF, R-330P*	3
Communications Jammer, HF*	1
Proximity Fuze Jammer, SPR-1/2*	3
Radio, VHF, Vehicle Mount Medium-Power	10

* These systems are normally mounted on armored vehicles.

Engineer Company, MIBR (Div) and TBR (Div)



PRINCIPAL ITEMS OF EQUIPMENT

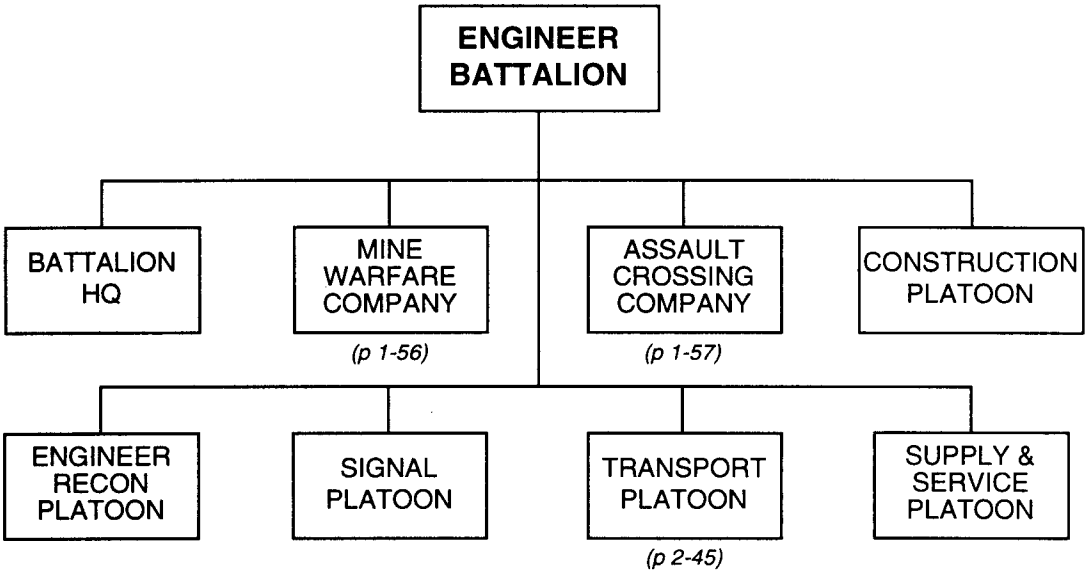
Equipment	Total *
ACV, BTR (R-145BM)	1
ATRL, RPG-22/26	5/7
Flamethrower, LPO/RPO	4
Truck, Utility	4/6
Truck, Medium	8/9
Truck, Heavy, with Crane	3/9
Truck, Crane	1
Truck, Crane Shovel	1
Truck, Dump	2
Truck, Water Purification	1
Van, Maintenance	1
Bridge, Tank-Launched	1/3
Bridge, Truck-Launched, TMM	4
Ditching Machine, BTM/MDK	1
Ditching Machine, PZM/TMK	3

Equipment	Total *
Armored Engineer Tractor, IMR	1
Route-Clearing Vehicle, BAT	1
Minelayer, GMZ**	3
Mine Roller-Plow	3/9
Mine Detector, DIM	1
Trailer, Cargo, 1-Axle	6
Trailer, Cargo, 2-Axle	2/3
Radios:	
VHF, Vehicle Mount, Medium-Power	13/21
HF/VHF, Manpack, Low-Power	4/6
HF, Vehicle Mount, Medium-Power	1

* Totals listed with multiple numbers (such as 5/7) reflect the numbers of that particular piece of equipment in the engineer company of a mechanized infantry brigade or tank brigade, respectively. The divisional mechanized infantry brigade requires only one tank-launched bridge and only one transport platoon to carry its mine roller-plows. The divisional tank brigade requires three tank-launched bridges and three transport platoons.

** Some units may have PMR towed minelayers instead of GMZ armored, tracked minelayers. Trucks normally tow PMR minelayers.

Engineer Battalion, MIBR (Sep)



Principal Items of Equipment	*Battalion HQ*	*Mine Warfare Co*	*Assault Crossing Co*	*Construction Plt*	*Engineer Recon Plt*	*Signal Plt*	*Transport Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80					3				3
ACV, BTR (R-145BM)		1							1
ACV, BRDM-2U			1						1
WEAPONS									
ATRL, RPG-22/26		3					1		4
SAM, Shoulder-Fired			3						3
ENGINEER EQUIPMENT									
Bridge, Truck-Launched				4					4
Tracked Amphibian, K-61/PTS			12						12
Trailer, Amphibious, PKP			6						6
Tracked Ferry, GSP/PMM-2*			6						6
Assault Boat			10						10
Minelayer, GMZ		3							3
Mine Roller-Plow							5		5
Mineclearer, MTK/MTK-2		2							2
Mine Detector, DIM		2			1				3
Engineer Recon Vehicle, IRM					2				2
Armored Engineer Tractor, IMR		2							2
Ditching Machine, BTM/MDK				2					2
Route-Clearing Vehicle, BAT/PKT				2					2
Tractor				1					1
Truck, Water Purification				1					1

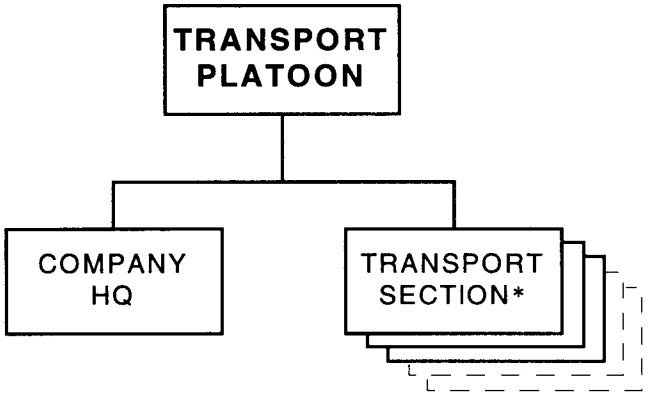
* With the PMM-2, there are a total of 8 ferries rather than 6.

(continued)

Engineer Battalion, MIBR (Sep) (continued)

Principal Items of Equipment	*Battalion HQ*	*Mine Warfare Co*	*Assault Crossing Co*	*Construction Plt*	*Engineer Recon Plt*	*Signal Plt*	*Transport Plt*	*Supply & Service Plt*	*TOTAL*
TRUCKS									
Truck, Utility	2			1	2	1	1	1	8
Truck, Medium	1	5	2	6	1	1		2	18
Truck, Heavy, with Crane							5		5
Truck, Crane			1						1
Truck, Crane Shovel				2					2
Truck, Dump				1					1
Truck, POL (5,000-Liter)								5	5
Van, Maintenance								4	4
Van, Signal	1					1			2
TRAILERS									
Trailer, Cargo, 1-Axle	1	2							3
Trailer, Cargo, 2-Axle			1	1				1	3
Trailer, Compressor			1						1
Trailer, Generator				1		1		1	3
Trailer, Kitchen		1	1						2
Trailer, POL (4,200-Liter)								5	5
Trailer, Water (900-Liter)		1	1						2
RADIOS									
VHF, Manpack, Low-Power								4	4
VHF, Vehicle Mount, Medium-Power		8	3	4	3		5		23
HF, Manpack, Low-Power	1	3	1	1	3		1		10
HF, Vehicle Mount, Medium-Power		1							1
HF/VHF, Vehicle Mount, Medium-Power	1					1			2
HF/VHF, Vehicle Mount, High-Power	1					1			2
Warning Receiver						1			1

Transport Platoon, Engr Bn, MIBR (Sep) or Transport Co

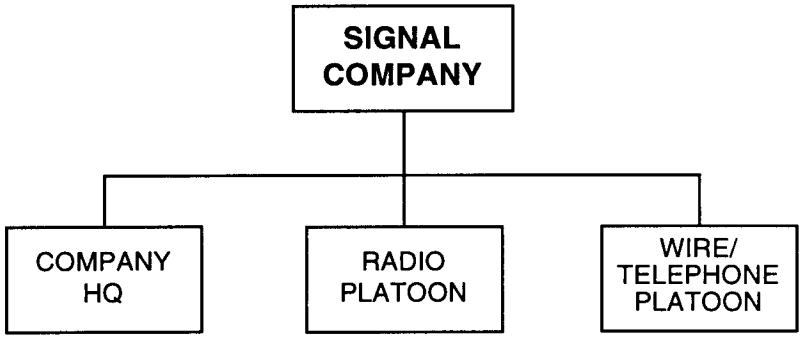


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATRL, RPG-22/26	1
Truck, Utility	1
Truck, Heavy, with Crane	3-5
Mine Roller-Plow	3-5
Radios:	
VHF, Vehicle Mount, Medium-Power	3-5
HF Manpack, Low-Power	1

* The number of transport sections per platoon corresponds to the number of tank companies in each of the brigade's tank battalions. Equipment totals vary, depending on the number of sections in the platoon.

Signal Company, MIBR and TBR



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ACV, BMP-1KSh	5/0
ACV, BTR (R-145BM)	3/8
Truck, Utility	5
Truck, Light	3
Van, Signal	5
Motorcycle**	3
Trailer, Generator	1

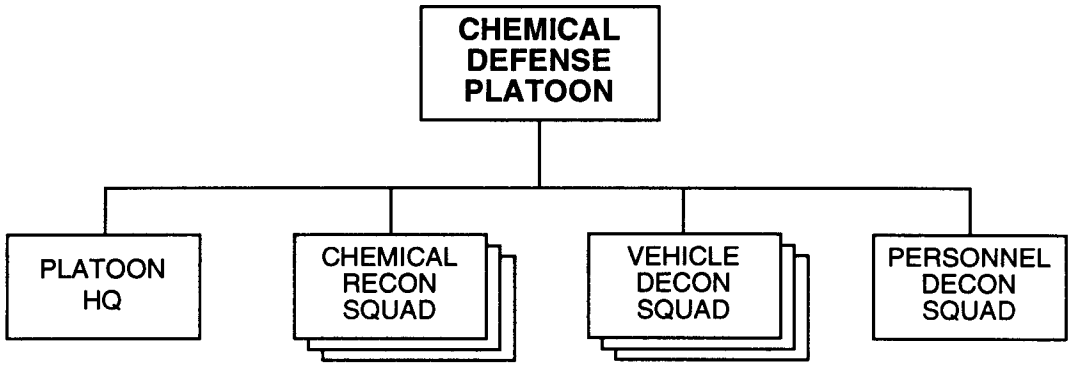
Equipment	Total
Radios:***	
VHF, Manpack, Low-Power	7
VHF, Vehicle Mount, Medium-Power	8
HF, Manpack, Low-Power	2
HF, Vehicle Mount, Medium-Power	8
HF, Vehicle Mount, High-Power	1
HF/VHF, Vehicle Mount, Medium-Power	2
HF/VHF, Vehicle Mount, High-Power	2
Radio Relay, VHF/UHF	2
Warning Receiver	3

* Totals listed with multiple numbers (such as 3/8) reflect the numbers of that particular piece of equipment in the signal company of a mechanized infantry brigade (IFV) and tank brigade or the signal company of a mechanized infantry brigade (APC), respectively.

** Motorcycles provide the brigade commander with messenger/courier service.

*** The radios listed normally support the brigade headquarters, but some may be attached to subordinate headquarters.

Chemical Defense Platoon, MIBR (Div) and TBR (Div) or SP Arty Regt or SAM Regt or Engr Bde

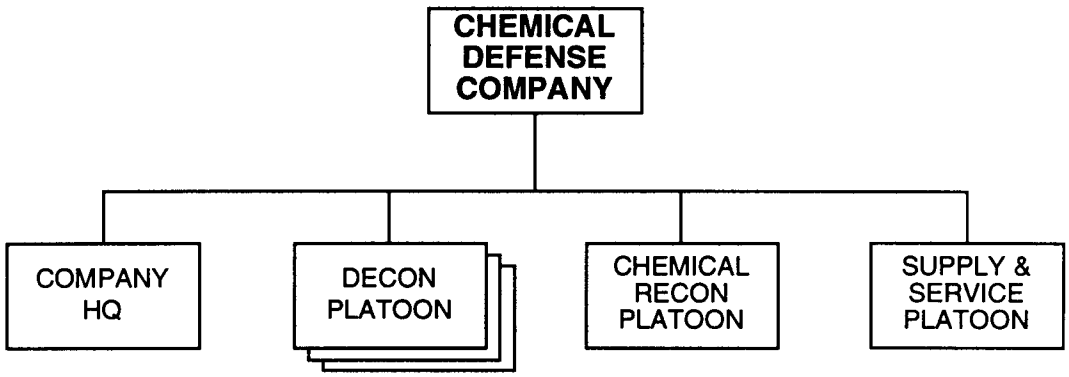


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Chemical Recon Vehicle, BRDM-2RKh or RKhM*	3
Truck, Decon, ARS-12U/14	3
Truck, Decon, DDA-53/66	1
Truck, Water (2,000-Liter)	2
Trailer, Water (1,200-Liter)	2
Radios:	
VHF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	1

* The tracked RKhM is more common in mechanized infantry (IFV-equipped), tank, and SP artillery units. In other units, the wheeled BRDM-2RKh is more common, and even the truck-mounted UAZ-69RKh may appear.

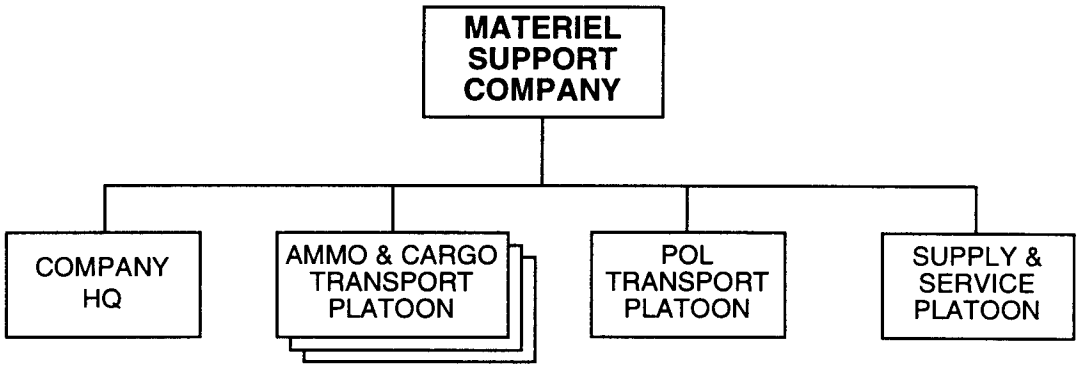
Chemical Defense Company, MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Chemical Recon Vehicle, BRDM-2RKh/RKhM	4
Truck, Decon, ARS-12U/14	8
Truck, Decon, DDA-53/66	4
Truck, Decon, TMS-65	2
Truck, Utility	2
Truck, Light	3
Truck, Medium	6
Truck, POL (4,000-Liter)	2
Truck, Water (2,000-Liter)	2
Trailer, Water (1,200-Liter)	2
Trailer, Water (900-Liter)	2
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	4
HF, Manpack, Low-Power	2

Materiel Support Company, MIBR (Div) and TBR (Div)

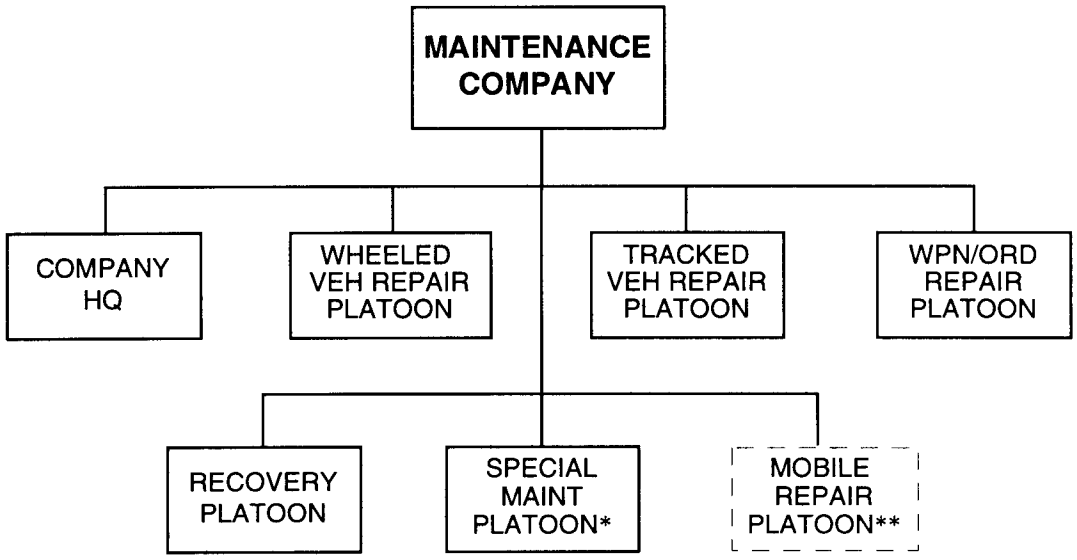


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	2
Truck, Light	4
Truck, Medium	45
Truck, POL (5,000-Liter)	15
Truck, Water (2,000-Liter)	4
Van, Maintenance	1

Equipment	Total
Trailer, Cargo, 2-Axle	30
Trailer, Generator	1
Trailer, Kitchen	2
Trailer, POL (4,200-Liter)	15
Trailer, Water (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

Maintenance Company, MIBR and TBR



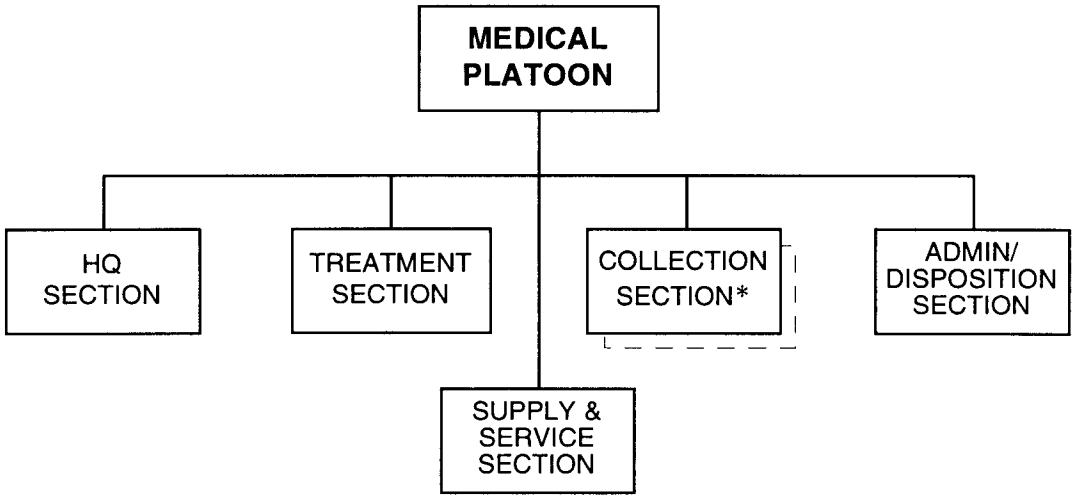
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	MIBR	TBR
ATRL, RPG-22/26	4	4
Truck, Utility	1	1
Truck, Medium	2	2
Van, Maintenance	12	12
Armored Maintenance Vehicle, MTP	3	0
Armored Recovery Vehicle	3	5
Trailer, Cargo, 2-Axle	6	6
Trailer, Generator	3	3
Radios:		
VHF, Manpack, Low-Power	1	1
VHF, Vehicle Mount, Medium-Power	6	5

* The special maintenance platoon consists of an arc and gas welding section, a battery repair and recharging section, and an electrical repair section.

** The mobile repair platoon normally is only present in IFV-equipped mechanized infantry brigades. The platoon consists of three sections, each equipped with an MTP armored maintenance vehicle. During field operations, one MTP supports each mechanized infantry battalion.

Medical Platoon, MIBR (Div) and TBR (Div) or SP Arty Regt or 152-mm Arty Bde or MRL Bde or Engr Bde

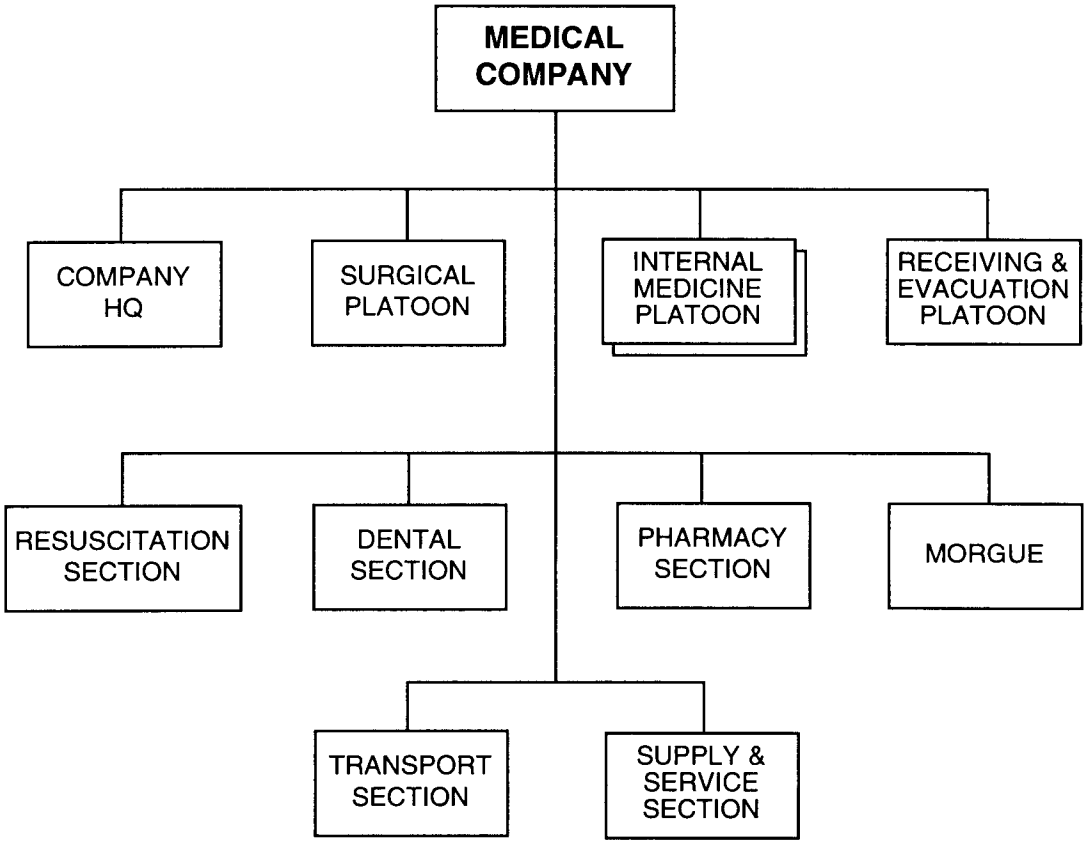


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total	Equipment	Total
Truck, Light	1	Ambulance	4
Truck, Medium	2	Trailer, Kitchen	1
Truck, Decon, DDA-53/66	1	Trailer, Water (1,200-Liter)	1
Van, Hospital	1	Radio, VHF, Manpack, Low-Power	1

* Some medical platoons, particularly those in mechanized infantry and tanks units, have two collection sections. In that case, there are four additional ambulances. Other general purpose trucks may serve as ambulances.

Medical Company, MIBR (Sep) and TBR (Sep)



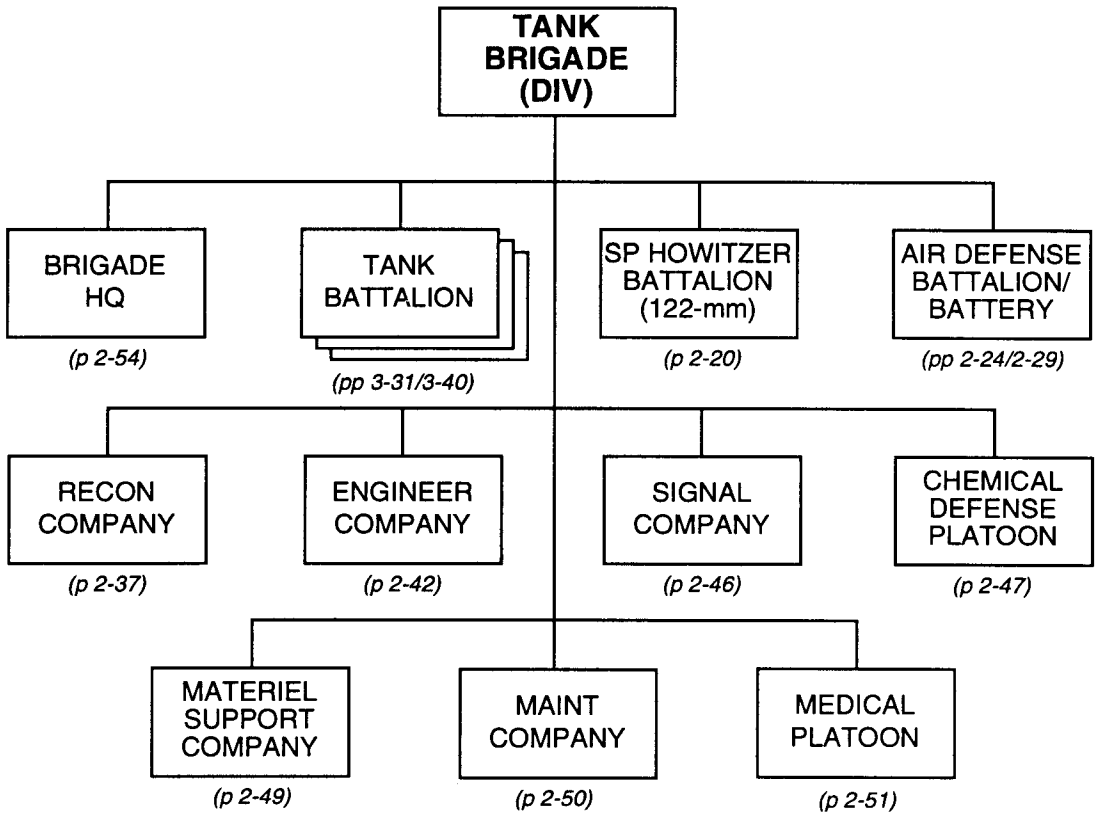
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Medium*	7
Truck, Water (2,000-Liter)	2
Van, Hospital	9
Ambulance	4

Equipment	Total
Trailer, Cargo, 2-Axle	7
Trailer, Generator	2
Trailer, Kitchen	2
Trailer, Water (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

* In better-equipped units, additional hospital vans may replace these general-purpose cargo trucks. Cargo trucks may also serve as ambulances.

Tank Brigade (Div), MID



(continued)

Tank Brigade (Div), MID (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x3)*	*122-mm SP How Bn*	*Air Defense Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES												
Medium Tank, T-64K/72K/80K	1	3										4
Medium Tank, T-64/72/80		90										90
ACV, BMP-1K/2K/3K		3			3							6
IFV, BMP-1/2/3				6	4							10
ACV, BMP-1KSh							5					5
ACV, BRM-1K/3K*					3							3
APC, BTR-60/70/80	1											1
ACV, BTR (R-145BM)		3				1	3					7
APC, BTR-60PA (FAC)	1											1
ASC, BRDM-2					4							4
Chem Recon Vehicle, BRDM-2RKh/RKhM								3				3
Mobile Recon Post, PRP-3/4**			1									1
ACRV, 1V13/1V13M/1V22			3									3
ACRV, 1V14/1V14M/1V23			3									3
ACRV, 1V15/1V15M/1V24			1									1
ACRV, 1V16/1V16M/1V25			1									1
ACV, PPRU***				2								2
ACV, BTR-60 (PU-12)				2								2
Armored Recovery Vehicle										5		5
WEAPONS												
122-mm SP Howitzer, 2S1			18									18
122-mm Laser-Guided Projectile Set			4									4
30-mm SP AA System, 2S6****				6								6
SAM, SA-13/GOPHER TELAR*****				6								6
SAM, Shoulder-Fired	3		18	18								39
ENGINEER EQUIPMENT												
Bridge, Tank-Launched						3						3
Bridge, Truck-Launched						4						4
Minelayer, GMZ						3						3
Mineclearing Plow		27										27
Mine Roller-Plow						9						9
Mine Detector, DIM						1						1
Armored Engineer Tractor, IMR						1						1
Ditching Machine, BTM/MDK						1						1
Ditching Machine, PZM/TMK						3						3
Route-Clearing Vehicle, BAT						1						1
Truck, Water Purification						1						1

* This system includes the TALL MIKE battlefield surveillance radar.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** This system includes the DOG EAR target acquisition radar.

**** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

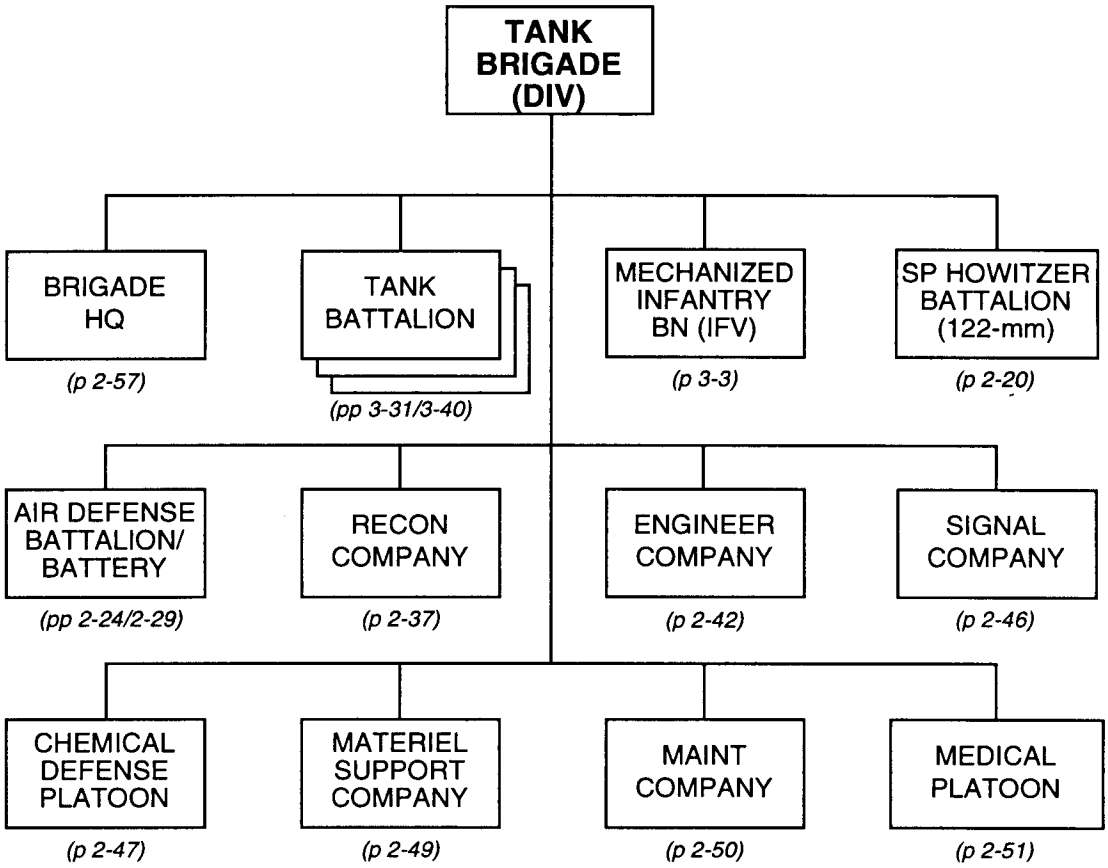
***** This system includes a ranging radar.

(continued)

Tank Brigade (Div), MID (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x3)*	*122-mm SP How Bn*	*Air Defense Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRUCKS												
Truck, Utility	3					6	5		2	1		17
Truck, Light			4	3			3		4		1	15
Truck, Medium	1	21	14	4		9			45	2	2	98
Truck, Heavy, with Crane						9						9
Truck, Crane						1						1
Truck, Crane Shovel						1						1
Truck, Decon, ARS-12U/14								3				3
Truck, Decon, DDA-53/66								1			1	2
Truck, Dump						2						2
Truck, POL (5,000-L)		15	2	2					15			34
Truck, Water (2,000-L)								2	4			6
Van, Command	3											3
Van, Hospital											1	1
Van, Kitchen		3										3
Van, Maintenance		3	2			1			1	12		19
Van, Signal			4				5					9
Ambulance		3	1								4	8
TRAILERS												
Trailer, Cargo, 1-Axle		3				6						9
Trailer, Cargo, 2-Axle		18	16			3			30	6		73
Trailer, Generator		3	2	2			1		1	3		12
Trailer, Kitchen			3						2		1	6
Trailer, POL (4,200-L)		12	2						15			29
Trailer, Water (900/1,200-L)		3	1					2	1		1	8
RADAR												
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE					1							1
RADIOS												
VHF, Manpack, Low-Power	3	3	10		7		7		1	1	1	33
VHF, Portable, Low-Power				4	4							8
VHF, Portable, Very-Low-Power				8								8
VHF, Vehicle Mount, Medium-Power	3	99	27	22	11	21	8	3		5		199
HF, Manpack, Low-Power		6				6	2	1				15
HF, Vehicle Mount, Medium-Power	1	18		1	1	1	8					30
HF/VHF, Vehicle Mount, Medium-Power			4				2					6
HF/VHF, Vehicle Mount, High-Power							2					2
HF, Vehicle Mount, High-Power							1					1
Radio Relay, VHF/UHF							2					2
Warning Receiver		3	2	4	1		3					13
MISCELLANEOUS												
Rangefinder, Laser			7									7
Rangefinder, Laser, Binocular			30									30
GPS Receiver			32									32
Motorcycle							3					3

Tank Brigade (Div), TD



(continued)

Tank Brigade (Div), TD (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x3)*	*Mech Inf Bn (IFV)*	*122-mm SP How Bn*	*Air Defense Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES													
Medium Tank, T-64K/72K/80K*	1	3											4
Medium Tank, T-64/72/80		90											90
ACV, BMP-1K/2K/3K**		3	2			3							8
IFV, BMP-1/2/3			41		6	4							51
ACV, BMP-1KSh								5					5
ACV, BRM-1K/3K***			1			3							4
APC, BTR-60/70/80	1												1
ACV, BTR (R-145BM)****		3	2				1	3					9
APC, BTR-60PA (FAC)	1												1
ASC, BRDM-2						4							4
Chem Recon Vehicle, BRDM-2RKh/RKhM									3				3
Mobile Recon Post, PRP-3/4*****				1									1
ACRV, 1V13/1V13M/1V22				3									3
ACRV, 1V14/1V14M/1V23				3									3
ACRV, 1V15/1V15M/1V24				1									1
ACRV, 1V16/1V16M/1V25				1									1
ACV, PPRU******					2								2
ACV, BTR-60 (PU-12)					2								2
Armored Recovery Vehicle											5		5
WEAPONS													
30-mm Auto Grenade Launcher, AGS-17			6										6
120-mm or 82-mm Mortar			6										6
122-mm SP Howitzer, 2S1				18									18
122-mm Laser-Guided Projectile Set				4									4
ATGM Manpack, AT-7/SAXHORN			9										9
30-mm SP AA System, 2S6*******					6								6
SAM, SA-13/GOPHER TELAR********					6								6
SAM, Shoulder-Fired	3		9	18	18								48
ENGINEER EQUIPMENT													
Bridge, Tank-Launched							3						3
Bridge, Truck-Launched							4						4
Minelayer, GMZ							3						3
Mineclearing Plow		27											27
Mine Roller-Plow							9						9
Mine Detector, DIM							1						1
Armored Engineer Tractor, IMR							1						1
Ditching Machine, BTM/MDK							1						1
Ditching Machine, PZM/TMK							3						3
Route-Clearing Vehicle, BAT							1						1
Truck, Water Purification							1						1

* One of the three tank brigades in a tank division has a second command tank, probably for the tank division commander.

** In lieu of these BMP command variants, some mechanized infantry battalions may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

*** This system includes the TALL MIKE battlefield surveillance radar.

**** Some IFV-equipped mechanized infantry battalions may have the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

***** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

****** This system includes the DOG EAR target acquisition radar.

******* This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

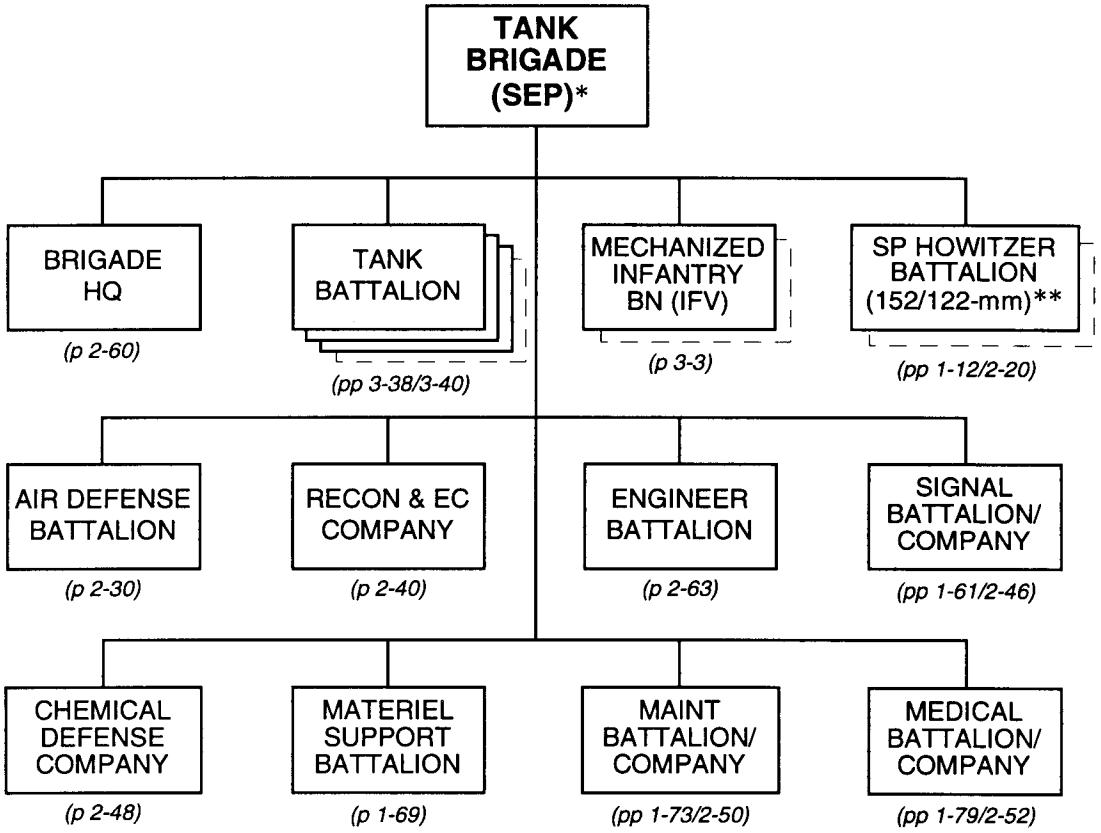
******** This system includes a ranging radar.

(continued)

Tank Brigade (Div), TD (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x3)*	*Mech Inf Bn (IFV)*	*122-mm SP How Bn*	*Air Defense Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRUCKS													
Truck, Utility	3		4				6	5		2	1		21
Truck, Light			13	4	3			3		4		1	28
Truck, Medium	1	21	4	14	4		9			45	2	2	102
Truck, Heavy, with Crane							9						9
Truck, Crane							1						1
Truck, Crane Shovel							1						1
Truck, Decon, ARS-12U/14									3				3
Truck, Decon, DDA-53/66									1			1	2
Truck, Dump							2						2
Truck, POL (5,000-L)		15	3	2	2					15			37
Truck, Water (2,000-L)									2	4			6
Van, Command	3												3
Van, Hospital												1	1
Van, Kitchen		3	1										4
Van, Maintenance		3	1	2			1			1	12		20
Van, Signal				4				5					9
Ambulance		3	1	1								4	9
TRAILERS													
Trailer, Cargo, 1-Axle		3	2				6						11
Trailer, Cargo, 2-Axle		18		16			3			30	6		73
Trailer, Generator		3	1	2	2			1		1	3		13
Trailer, Kitchen			3	3						2		1	9
Trailer, POL (4,200-L)		12	3	2						15			32
Trailer, POL (1,200-L)			1										1
Trailer, Water (900/1,200-L)		3	1	1					2	1		1	9
RADAR													
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE						1							1
RADIOS													
VHF, Manpack, Low-Power	3	3	19	10		7		7		1	1	1	52
VHF, Portable, Low-Power			21		4	4							29
VHF, Portable, Very-Low-Power			4		8								12
VHF, Vehicle Mount, Medium-Power	3	99	47	27	22	11	21	8	3		5		246
HF, Manpack, Low-Power		6					6	2	1				15
HF, Vehicle Mount, Medium-Power	1	18	4		1	1	1	8					34
HF/VHF, Vehicle Mount, Medium-Power				4				2					6
HF/VHF, Vehicle Mount, High-Power								2					2
HF, Vehicle Mount, High-Power								1					1
Radio Relay, VHF/UHF								2					2
Warning Receiver		3	1	2	4	1		3					14
MISCELLANEOUS													
Rangefinder, Laser			1	7									8
Rangefinder, Laser, Binocular				30									30
GPS Receiver			1	32									33
Periscopic Aiming Circle			1										1
Collimator			6										6
Motorcycle								3					3

Tank Brigade (Sep)



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* A separate tank brigade most likely has four tank battalions of 31 to 51 tanks each and one mechanized infantry battalion. However, the mix might be three tank battalions and two mechanized infantry battalions. The mechanized infantry battalions are most likely IFV-equipped (see p 3-3), although there may be some APC-equipped battalions (see p 3-19).

** When there is a single SP howitzer battalion, it may be either 122-mm or 152-mm, with 152-mm most likely. When there are two battalions, there may be one 122-mm and one 152-mm or, more likely, both 152-mm.

(continued)

Tank Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x4)*	*Mech Inf Bn (IFV)*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ARMORED VEHICLES													
Medium Tank, T-64K/72K/80K	1	4											5
Medium Tank, T-64/72/80		200											200
ACV, BMP-1K/2K/3K*		4	2										6
IFV, BMP-1/2/3			41		6	4							51
ACV, BRM-1K/3K**			1			3							4
APC, BTR-60/70/80	1						3						4
ACV, BTR (R-145BM)***		4	2				1	8					15
ACV, BRDM-2U							1						1
ASC, BRDM-2						4							4
APC, BTR-60PA (FAC)	1												1
Chem Recon Vehicle, BRDM-2RKh/RKhM									4				4
Mobile Recon Post, PRP-3/4****				2									2
ACRV, 1V13/1V13M/1V22				6									6
ACRV, 1V14/1V14M/1V23				6									6
ACRV, 1V15/1V15M/1V24				2									2
ACRV, 1V16/1V16M/1V25				2									2
ACV, PPRU*****					2								2
ACV, BTR-60 (PU-12)					4								4
Armored Recovery Vehicle											5		5
Tractor, Artillery, AT-S											1		1
WEAPONS													
30-mm Auto Grenade Launcher, AGS-17			6										6
120-mm or 82-mm Mortar			6										6
152-mm SP Howitzer, 2S3/2S19				36									36
152-mm Laser-Guided Projectile Set				8									8
ATGM Manpack, AT-7/SAXHORN			9										9
30-mm SP AA System, 2S6******					6								6
SAM, SA-13/GOPHER TELAR*******					6								6
SAM, SA-15/GAUNTLET TELAR********					8								8
SAM, Shoulder-Fired	3		9	36	24		3			3			78

* In lieu of one of these BMP command variants, some battalion headquarters may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

** This system includes the TALL MIKE battlefield surveillance radar.

*** Some IFV-equipped mechanized infantry battalions may have the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

**** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

***** This system includes the DOG EAR target acquisition radar.

****** This system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

******* This system includes a ranging radar.

******** This system includes the SCRUM HALF fire control/target acquisition radar.

(continued)

Tank Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x4)*	*Mech Inf Bn (IFV)*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ENGINEER EQUIPMENT													
Bridge, Tank-Launched							3						3
Bridge, Truck-Launched							4						4
Tracked Amphibian, K-61/PTS							12				1		13
Trailer, Amphibious, PKP							6						6
Tracked Ferry, GSP/PMM-2*							6						6
Assault Boat							10						10
Minelayer, GMZ							3						3
Mineclearing Plow		60											60
Mine Roller-Plow							20						20
Mineclearer, MTK/MTK-2							2						2
Mine Detector, DIM							3						3
Engineer Recon Vehicle, IRM							2						2
Armored Engineer Tractor, IMR							2						2
Ditching Machine, BTM/MDK							2						2
Route-Clearing Vehicle, BAT/PKT							2						2
Tractor							1						1
Truck, Water Purification							1						1
TRUCKS													
Truck, Utility	3		4				12	12	2	7	6	6	52
Truck, Light			13		7			7	3	33	4	4	71
Truck, Medium	1	44	4	40	6		18	9	6	158	27	21	334
Truck, Heavy											1		1
Truck, Heavy, with Crane							20						20
Truck, Crane					1		1			4	4		10
Truck, Crane Shovel							2						2
Truck, Decon, ARS-12U/14									8			3	11
Truck, Decon, DDA-53/66									4			1	5
Truck, Decon, TMS-65									2				2
Truck, Dump							1						1
Truck, POL (5,000-L)		32	3	8			6	3		160	4	2	218
Truck, POL (4,000-L)									2				2
Truck, Recovery											2		2
Truck, Water (2,000-L)									2	6	1	3	12
Tractor-Trailer, Lowboy											2		2
Van, Command	3												3
Van, Hospital												9	9
Van, Kitchen		4	1							2			7
Van, Light											4		4
Van, Maintenance		4	1	4			4	4		11	56	2	86
Van, Mobile Field Bakery										4			4
Van, Signal				8			2	33		1	1	1	46
Ambulance		4	1	2				1		1	1	12	22

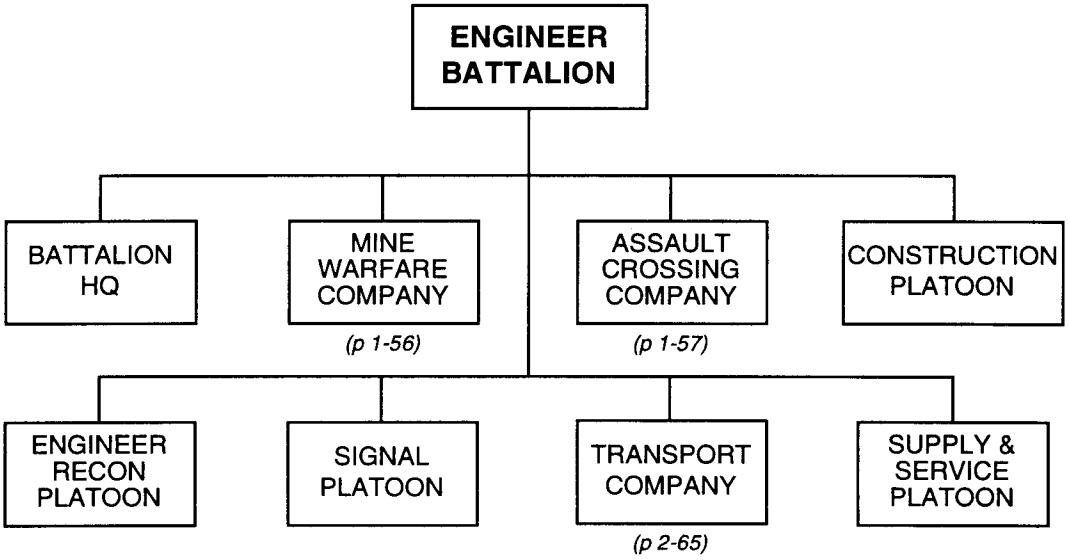
* With the PMM-2, there are a total of 8 ferries rather than 6.

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Tank Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Tank Bn (x4)*	*Mech Inf Bn (IFV)*	*152-mm SP How Bn (x2)*	*Air Defense Bn*	*Recon & EC Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
TRAILERS													
Trailer, Cargo, 1-Axle		4	2				3	10		2			21
Trailer, Cargo, 2-Axle		40		34	5		3			124	18	10	234
Trailer, Compressor							1						1
Trailer, Decon, DDP												1	1
Trailer, Generator		4	1	4	2		3	10		6	9	3	42
Trailer, Kitchen			3	6	3		2	2			3	4	23
Trailer, POL (4,200-L)		32	3	8			6	3		160	4	2	218
Trailer, POL (1,200-L)			1										1
Trailer, Water (900-/1,200-L)		4	1	2			2	1	4	7	1	1	23
ELECTRONIC COMBAT SYSTEMS													
Radio Intercept/DF						3							3
Communications Jammer, VHF, R-330P						3							3
Communications Jammer, HF						1							1
Proximity Fuze Jammer, SPR-1/2						3							3
RADARS													
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE						1							1
RADIOS													
VHF, Manpack, Low-Power	3	4	19	20	2	7	4	20	4	5	6	4	98
VHF, Portable, Low-Power			21		4	4							29
VHF, Portable, Very-Low-Power			4		8								12
VHF, Vehicle Mount, Medium-Power	3	212	47	54	32	21	38	6	4		5		422
HF, Manpack, Low-Power		8					14	6	2	1		1	32
HF, Vehicle Mount, Medium-Power	1	32	4		1	1	1	8			1		49
HF/VHF, Vehicle Mount, Medium-Power				8			2	7		1	1	1	20
HF/VHF, Vehicle Mount, High-Power							2	8					10
Radio Relay, VHF/UHF								6					6
Communications Center								2					2
Warning Receiver	1	4	1	4	6	1	1	3		1	1	1	24
MISCELLANEOUS													
SA-15 Missile Transloader (TELAR Chassis)					4								4
Rangefinder, Laser			1	14									15
Rangefinder, Laser, Binocular				60									60
GPS Receiver			1	64									65
Periscopic Aiming Circle			1	12									13
Collimator			6										6
Motorcycle								13			3		16

Engineer Battalion, TBR (Sep)



Principal Items of Equipment	*Battalion HQ*	*Mine Warfare Co*	*Assault Crossing Co*	*Construction Plt*	*Engineer Recon Plt*	*Signal Plt*	*Transport Co*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80					3				3
ACV, BTR (R-145BM)		1							1
ACV, BRDM-2U			1						1
WEAPONS									
ATRL, RPG-22/26		3					5		8
SAM, Shoulder-Fired			3						3
ENGINEER EQUIPMENT									
Bridge, Tank-Launched				3					3
Bridge, Truck-Launched				4					4
Tracked Amphibian, K-61/PTS			12						12
Trailer, Amphibious, PKP			6						6
Tracked Ferry, GSP/PMM-2*			6						6
Assault Boat			10						10
Minelayer, GMZ		3							3
Mine Roller-Plow							20		20
Mineclearer, MTK/MTK-2		2							2
Mine Detector, DIM		2			1				3
Engineer Recon Vehicle, IRM					2				2
Armored Engineer Tractor, IMR		2							2
Ditching Machine, BTM/MDK				2					2
Route-Clearing Vehicle, BAT/PKT				2					2
Tractor				1					1
Truck, Water Purification				1					1

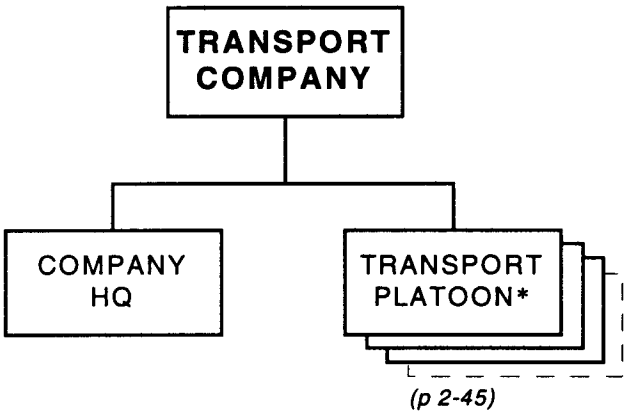
* Wiith the PMM-2, there are a total of 8 ferries rather than 6.

(continued)

Engineer Battalion, TBR (Sep) (continued)

Principal Items of Equipment	*Battalion HQ*	*Mine Warfare Co*	*Assault Crossing Co*	*Construction Plt*	*Engineer Recon Plt*	*Signal Plt*	*Transport Co*	*Supply & Service Plt*	*TOTAL*
TRUCKS									
Truck, Utility	2			1	2	1	5	1	12
Truck, Medium	1	5	2	6	1	1		2	18
Truck, Heavy, with Crane							20		20
Truck, Crane			1						1
Truck, Crane Shovel				2					2
Truck, Dump				1					1
Truck, POL (5,000-Liter)								6	6
Van, Maintenance								4	4
Van, Signal	1					1			2
TRAILERS									
Trailer, Cargo, 1-Axle	1	2							3
Trailer, Cargo, 2-Axle			1	1				1	3
Trailer, Compressor			1						1
Trailer, Generator				1		1		1	3
Trailer, Kitchen		1	1						2
Trailer, POL (4,200-Liter)								6	6
Trailer, Water (900-Liter)		1	1						2
RADIOS									
VHF, Manpack, Low-Power								4	4
VHF, Vehicle Mount, Medium-Power		8	3	4	3		20		38
HF, Manpack, Low-Power	1	3	1	1	3		5		14
HF, Vehicle Mount, Medium-Power		1							1
HF/VHF, Vehicle Mount, Medium-Power	1					1			2
HF/VHF, Vehicle Mount, High-Power	1					1			2
Warning Receiver						1			1

Transport Company, Engr Bn, TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ATRL, RPG-22/26	4-5
Truck, Utility	4-5
Truck, Heavy, with Crane	9-20
Mine Roller-Plow	9-20

Equipment	Total *
Radios:	
VHF, Vehicle Mount, Low-Power	9-20
HF Manpack, Low-Power	4-5

* The number of transport platoons corresponds to the number of tank battalions in the brigade. Equipment totals vary, depending on the number of transport platoons and the number of sections per platoon.

Chapter 3
Maneuver Battalions

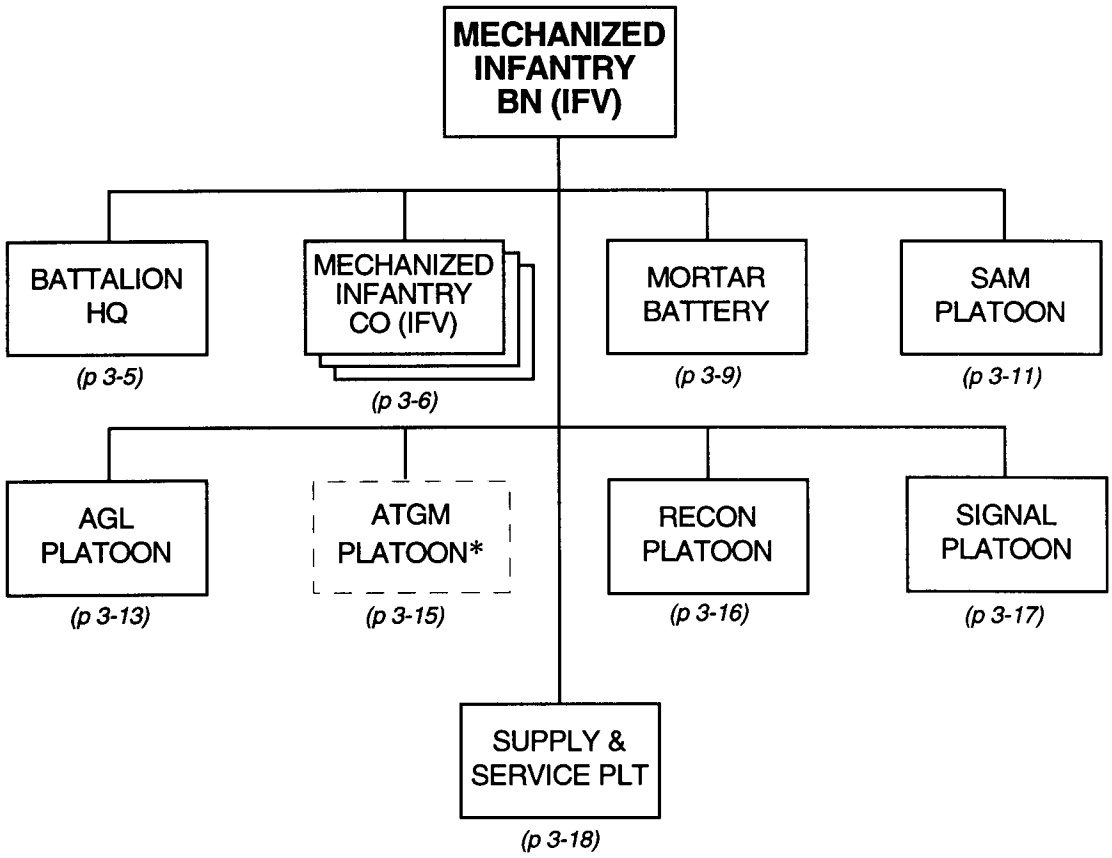
There are two basic types of mechanized infantry battalion: those equipped with tracked infantry fighting vehicles (IFVs) and those equipped with wheeled armored personnel carriers (APCs). Tank battalions of divisional tank brigades have a standard 31-tank structure. In a divisional mechanized infantry brigade, the tank battalion may have the 3l-tank structure or a variant with 40 tanks. Tank battalions in separate mechanized infantry and tank brigades typically have a 5l-tank structure, but 3l- and 41-tank variants are possible.There is also a 44-tank variant that may occur in either divisional or separate mechanized infantry and tank brigades or as a separate tank battalion in a motorized infantry division.

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Mechanized Infantry Battalion (IFV)



* Many IFV-equipped mechanized infantry battalions do not have an ATGM platoon. Therefore, the battalion's equipment totals shown here do not include that platoon. The ATGM platoon is more likely to appear when the battalion is part of a separate brigade.

(continued)

Mechanized Infantry Battalion (IFV) (continued)

Principal Items of Equipment	*Battalion HQ*	*Mech Inf Co (IFV) (x3)*	*Mortar Btry*	*SAM Plt*	*AGL Plt*	*Recon Plt*	*Signal Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES									
IFV, BMP-1/2/3		33		3	3	2			41
ACV, BMP-1K/2K/3K*	2								2
ACV, BRM-1K/3K**						1			1
ACV, BTR (R-145BM)***							2		2
WEAPONS									
9-mm Pistol, PM	6	111	14	16	13	10	1	1	172
5.45-mm Assault Rifle, AK-74	8	156	47	9	18	15	13	30	296
5.45-mm LMG, RPK-74		27				3			30
7.62-mm GP MG, PKM			2						2
7.62-mm Sniper Rifle, SVD		9				1			10
40-mm Under-Barrel Grenade Lchr	1	66	6			3			76
30-mm Auto Grenade Launcher, AGS-17					6				6
120-mm or 82-mm Mortar			6						6
ATGM, Manpack, AT-7/SAXHORN		9							9
ATGL, RPG-7V	1	27	6			3			37
ATRL, RPG-22/26	2	33		3	3	3			44
SAM, Shoulder-Fired				9					9
Flamethrower, RPO	2	33				3			38
TRUCKS									
Truck, Utility	1		1				1	1	4
Truck, Light	1		7				1	4	13
Truck, Medium								4	4
Truck, POL (5,000-L)								3	3
Van, Kitchen								1	1
Van, Maintenance								1	1
Ambulance								1	1
TRAILERS									
Trailer, Cargo, 1-Axle								2	2
Trailer, Generator								1	1
Trailer, Kitchen								3	3
Trailer, POL (4,200-L)								3	3
Trailer, POL (1,200-L)								1	1
Trailer, Water (900-L)								1	1
RADIOS									
VHF, Manpack, Low-Power	2	3	5			3	3	3	19
VHF, Portable, Low-Power	1	15			4			1	21
VHF, Portable, Very-Low-Power				4					4
VHF, Vehicle Mount, Medium-Power	2	33	1	3	3	3	2		47
HF, Vehicle Mount, Medium-Power	2						2		4
Warning Receiver	1								1
MISCELLANEOUS									
Rangefinder/Target Designator, Laser			1						1
Periscopic Aiming Circle			1						1
Collimator			6						6
Night-Vision Goggles	2	42		4	4	4			56
Night-Vision Goggles (Driver)			6				2	3	11
Night-Vision Sight (Small Arms)	1	30	6	3	6	6	2	6	60
Night-Vision Sight (AGL)					6				6
Night-Vision Sight (MG)			2						2
Night-Vision Sight (Aiming Circle)			1						1
GPS Receiver			1						1

* In lieu of one of these BMP command variants, some battalion headquarters may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

** This system includes the TALL MIKE battlefield surveillance radar.

*** Some IFV-equipped mechanized infantry battalions may have the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

Battalion Headquarters,
MIBN (IFV) _____

BATTALION HEADQUARTERS

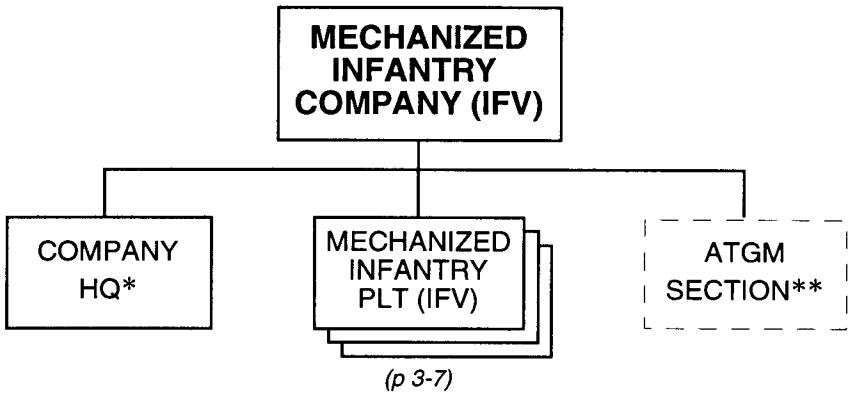
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BMP-1K/2K/3K	2 *
9-mm Pistol, PM	6
5.45-mm Assault Rifle, AK-74	8
40-mm Under-Barrel Grenade Launcher, GP-25/30	1
ATGL, RPG-7V	1
ATRL, RPG-22/26	2
Flamethrower, RPO	2
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	1

Equipment	Total
Truck, Utility	1
Truck, Light	1
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	2
HF, Vehicle Mount, Medium-Power	2
Warning Receiver	1

* In lieu of one of these BMP command variants, some battalion headquarters may have an ACV, BTR (R-145BM), or an ACV, BMP-1KSh.

Mechanized Infantry Company (IFV), MIBN (IFV)



PRINCIPAL ITEMS OF EQUIPMENT

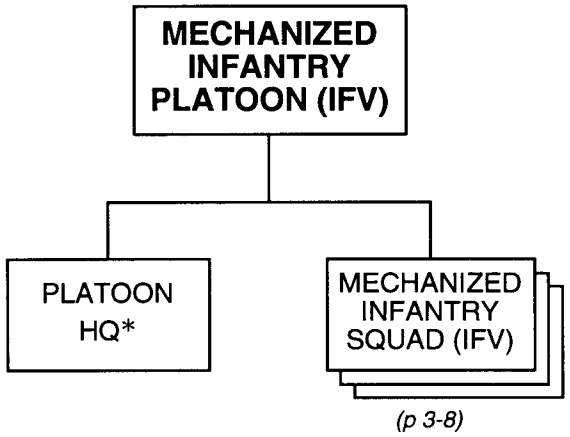
Equipment	Total
IFV, BMP-1/2/3	11
9-mm Pistol, PM	37
5.45-mm Assault Rifle, AK-74	52
5.45-mm LMG, RPK-74	9
7.62-mm Sniper Rifle, SVD	3
40-mm Under-Barrel Grenade Launcher, GP-25/30	22
ATGM, Manpack, AT-7/SAXHORN	3
ATGL, RPG-7V	9

Equipment	Total
ATRL, RPG-22/26	11
Flamethrower, RPO	11
Night-Vision Goggles	14
Night-Vision Sight (Small Arms)	10
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	5
VHF, Vehicle Mount, Medium-Power	11

* The company headquarters has one IFV.

** Many IFV-equipped mechanized infantry companies have an ATGM section. Therefore, the company's equipment totals shown here include that platoon and its IFV.

Mechanized Infantry Platoon (IFV), MIC (IFV)



Platoon Leader ..... PM
Asst Plt Leader AK-74
Sniper AK-74/SVD
Rifleman/Medic AK-74

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
IFV, BMP-1/2/3	3
9-mm Pistol, PM	10
5.45-mm Assault Rifle, AK-74	15
5.45-mm LMG, RPK-74	3
7.62-mm Sniper Rifle, SVD	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
ATGL, RPG-7V	3

Equipment	Total
ATRL, RPG-22/26	3
Flamethrower, RPO	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	3

* With a standard eight-man squad, each IFV has two or three empty seats. The platoon leader and sniper normally ride in the first squad vehicle, the assistant platoon leader in the second, and the rifleman/medic in the third. The sniper has an assault rifle for normal combat. However, he also has a sniper rifle in the IFV for those instances when he acts as a sniper.

Mechanized Infantry Squad (IFV), MIP (IFV)

MECHANIZED INFANTRY SQUAD (IFV)*

Squad Leader/IFV Commander	AK-74
Asst Squad Leader/IFV Gunner	PM
IFV Driver/Mechanic	PM
Machinegunner**	RPK-74
Grenadier	RPG-7V, PM
Senior Rifleman	AK-74
Rifleman/Asst Grenadier	AK-74
Rifleman**	AK-74

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
IFV, BMP-1/2/3	1
9-mm Pistol, PM	3
5.45-mm Assault Rifle, AK-74	4
5.45-mm LMG, RPK-74	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	2
ATGL, RPG-7V	1

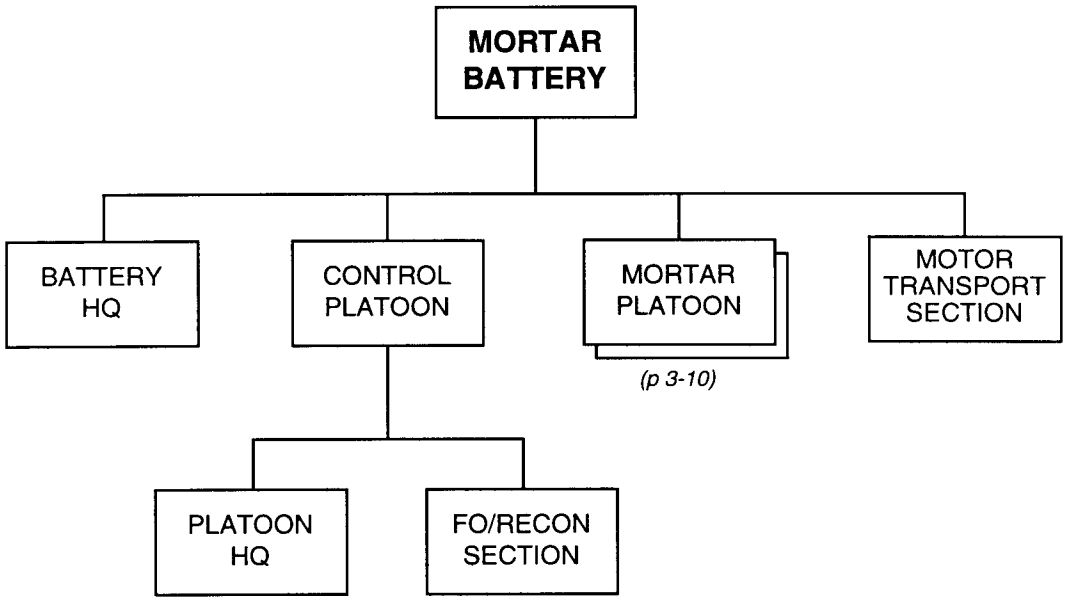
Equipment	Total
ATRL, RPG-22/26***	1
Flamethrower, RPO	1
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	1
Radio, VHF, Vehicle Mount, Medium-Power	1

* The dismounted squad assault element consists of six men. The IFV driver/mechanic and assistant squad leader/IFV gunner remain with the IFV to provide fire support. The dismounted squad does not have a portable radio.

** Some squads may have a second machinegunner in lieu of the rifleman. This would change the equipment totals to three rifles and two machineguns.

*** The RPG-7V has a dedicated operator (grenadier), but the RPG-22/26 does not.

Mortar Battery, MIBN (IFV or APC)

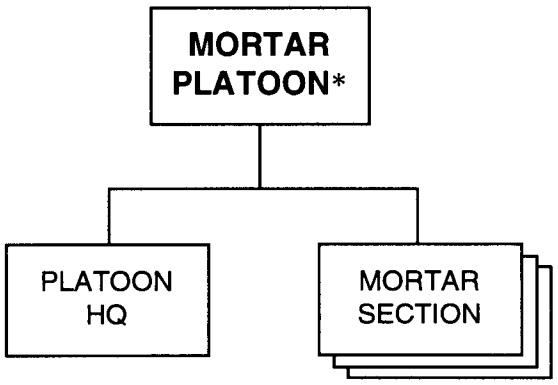


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
120-mm Mortar, M1943/2B11/2S12, or 82-mm Mortar, 2B9/2B14	6
9-mm Pistol, PM	14
5.45-mm Assault Rifle, AK-74	47
7.62-mm GP MG, PKM	2
ATGL, RPG-7V	6
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
Truck, Utility	1
Truck, Light	7
Rangefinder/Target Designator, Laser	1

Equipment	Total
Periscopic Aiming Circle, PAB2A	1
Collimator	6
Night-Vision Goggles (Driver)	6
Night-Vision Sight (Small Arms)	6
Night-Vision Sight (MG)	2
Night-Vision sight (Aiming Circle)	1
GPS Receiver	1
Radio:	
VHF, Manpack, Low-Power	5
VHF, Vehicle Mount, Medium-Power	1

Mortar Platoon, Mortar Btry

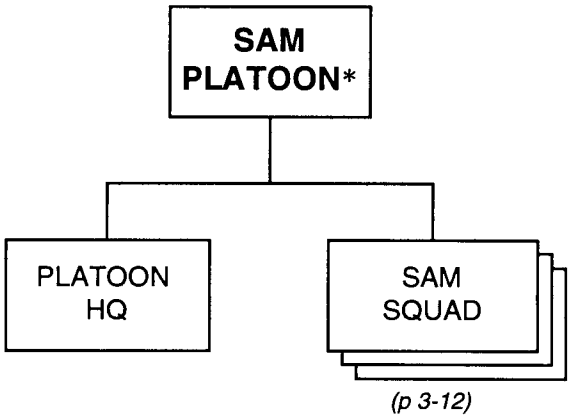


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
120-mm Mortar, M1943/2B11/2S12, or 82-mm Mortar, 2B9/2B14	3
9-mm Pistol, PM	4
5.45-mm Assault Rifle, AK-74	18
ATGL, RPG-7V	3
Night-Vision Sight (Small Arms)	3
Collimator	3
Radio, VHF, Manpack, Low-Power	1

* Three light trucks from the mortar battery's motor transport section normally carry the three mortar sections and the platoon headquarters. However, the mortar crew can move the mortar over short distances when necessary.

SAM Platoon, MIBN (IFV) or SAM Bn (SA-11) or Early Warning Bn



(p 3-12)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	9
IFV, BMP-1/2/3	3
9-mm Pistol, PM	16
5.45-mm Assault Rifle, AK-74	9
ATRL, RPG-22/26	3
Night-Vision Goggles	4

Equipment	Total
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Portable, Very-Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

* Depending on the situation, the battalion commander may retain the entire SAM platoon under his own control, or he may allocate its squads to individual mechanized infantry companies (or SA-11 batteries).

SAM Squad, SAM Plt, MIBN (IFV) or SAM Bn (SA-11) or Early Warning Bn

SAM SQUAD

SAM Operator (x3)* ..... SAM Launcher, PM
Rifleman/Asst Operator (x3) AK-74
IFV Driver/Mechanic AK-74
IFV Gunner ..... PM

PRINCIPAL ITEMS OF EQUIPMENT

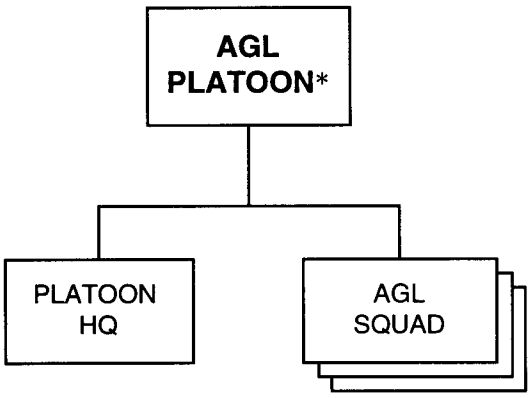
Equipment	Total
SAM, Shoulder-Fired**	3
IFV, BMP-1/2/3	1
9-mm Pistol, PM	5
5.45-mm Assault Rifle, AK-74	3
ATRL, RPG-22/26	1
Night-Vision Goggles	1

Equipment	Total
Night-Vision Sight (Small Arms)	1
Radios:	
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	1

* One of the SAM operators is also the squad leader.

** The squad's IFV carries up to five missiles for each SAM launcher. When dismounted, each SAM operator carries a gripstock launcher and one missile; a rifleman/assistant operator carries one additional missile and can bring more from the IFV, as required.

Automatic Grenade Launcher Platoon, MIBN (IFV)



(p 3-14)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm Automatic Grenade Launcher, AGS-17	6
IFV, BMP-1/2/3	3
9-mm Pistol, PM	13
5.45-mm Assault Rifle, AK-74	18
ATRL, RPG-22/26	3
Night-Vision Goggles	4

Equipment	Total
Night-Vision Sight (AGL)	6
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium Power	3

* Depending on the situation, the mechanized infantry battalion commander may retain the entire AGL platoon under his own control, or he may allocate its squads to individual mechanized infantry companies.

Automatic Grenade Launcher Squad, AGL Plt, MIBN (IFV)

AGL SQUAD

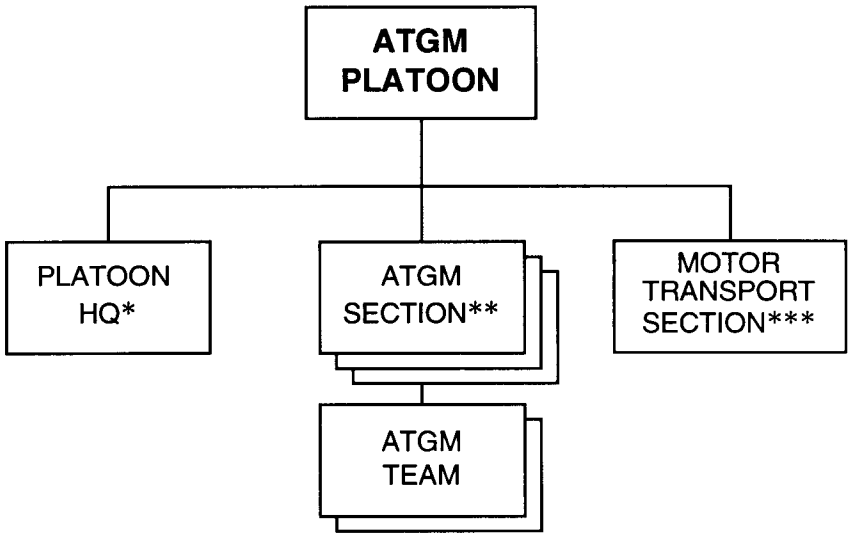
Squad Leader.....AK-74
Senior Rifleman.....AK-74, RPG-22/26
Grenadier (x2).....AGS-17, PM
Rifleman/Asst Grenadier (x4).....AK-74
IFV Driver/Mechanic.....PM
IFV Gunner.....PM

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm Automatic Grenade Launcher, AGS-17	2
IFV, BMP-1/2/3	1
9-mm Pistol, PM	4
5.45-mm Assault Rifle, AK-74	6
ATRL, RPG-22/26	1
Night-Vision Goggles	1

Equipment	Total
Night-Vision Sight (AGL)	2
Night-Vision Sight (Small Arms)	2
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium Power	1

ATGM Platoon, MIBN (IFV)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM, Manpack, AT-4/SPIGOT	6
IFV, BMP-1/2/3	3
9-mm Pistol, PM	7
5.45-mm Assault Rifle, AK-74	19
ATRL, RPG-22/26	3

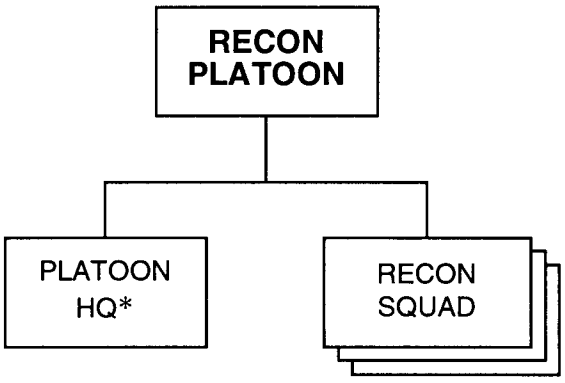
Equipment	Total
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

* The platoon leader and assistant platoon leader ride in extra seats in the ATGM section vehicles.

** ATGMs deploy by sections. Each section consists of two teams, each containing one AT-4/SPIGOT launcher.

*** Each of the three IFVs in the motor transport section can carry an ATGM section.

Reconnaissance Platoon, MIBN (IFV)



Platoon Leader ..... PM
Asst Plt Leader AK-74
Sniper AK-74/SVD
Rifleman/Medic AK-74

PRINCIPAL ITEMS OF EQUIPMENT

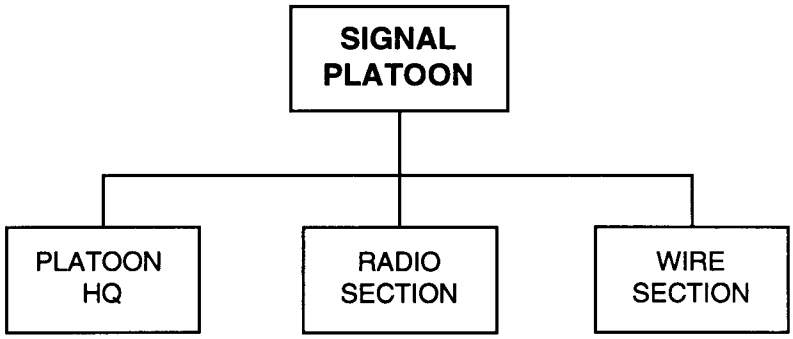
Equipment	Total
ACV, BRM-1/3K**	1
IFV, BMP-1/2/3	2
9-mm Pistol, PM	10
5.45-mm Assault Rifle, AK-74	15
5.45-mm LMG, RPK-74	3
7.62-mm Sniper Rifle, SVD	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	3
ATGL, RPG-7V	3

Equipment	Total
ATRL, RPG-22/26	3
Flamethrower, RPO	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	3

* The platoon leader, assistant platoon leader, sniper, and rifleman/medic ride in extra seats in the reconnaissance squad vehicles. The platoon leader normally rides in the BRM-1K.

** This system includes the TALL MIKE battlefield surveillance radar.

Signal Platoon, MIBN (IFV or APC)



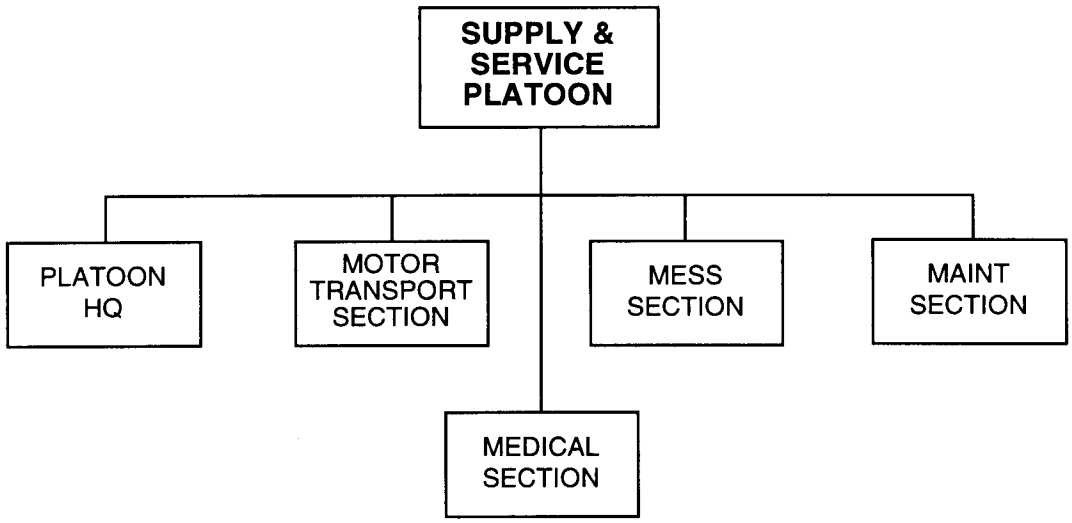
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)*	2
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	13
Truck, Utility	1
Truck, Light	1
Night-Vision Goggles (Driver)	2
Night-Vision Sight (Small Arms)	2

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	2
HF, Vehicle Mount, Medium-Power	2

* Some IFV-equipped mechanized infantry battalions may have the ACV, BMP-1KSh, instead of the ACV, BTR (R-145BM).

Supply and Service Platoon, MIBN (IFV or APC)



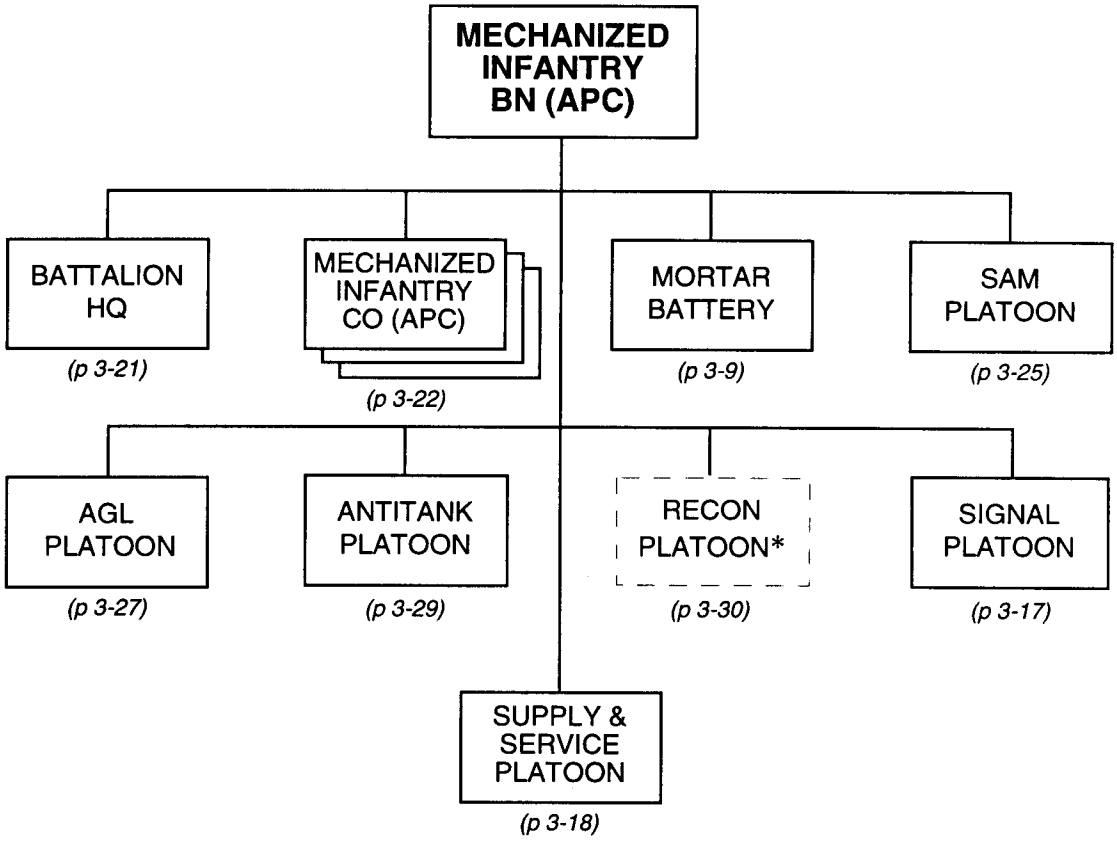
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	30
Truck, Utility	1
Truck, Light	4
Truck, Medium	4
Truck, POL (5,000-Liter)	3
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	2

Equipment	Total
Trailer, Generator	1
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	3
Trailer, POL (1,200-Liter)	1/0 *
Trailer, Water (900-Liter)	1
Night-Vision Goggles (Driver)	3
Night-Vision Sight (Small Arms)	6
Radio:	
VHF, Manpack, Low-Power	3
VHF, Portable, Low-Power	1

* Since an IFV-equipped mechanized infantry battalion has greater POL requirements, its supply and service platoon has one additional 1,200-liter POL trailer that is not present in an APC-equipped battalion.

Mechanized Infantry Battalion (APC)



* Some APC-equipped mechanized infantry battalions do not have a reconnaissance platoon. However, the battalion's equipment totals shown here include that platoon.

(continued)

Mechanized Infantry Battalion (APC) (continued)

Principal Items of Equipment	*Battalion HQ*	*Mech Inf Co (APC) (x3)*	*Mortar Btry*	*SAM Plt*	*AGL Plt*	*Antitank Plt*	*Recon Plt*	*Signal Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80		33		3	3	5	3			47
ACV, BTR-60PBK/70K/80K	1									1
ACV, BTR (R-145BM)	1							2		3
WEAPONS										
9-mm Pistol, PM	6	111	14	16	13	11	10	1	1	183
5.45-mm Assault Rifle, AK-74	8	156	47	9	18	28	15	13	30	324
5.45-mm LMG, RPK-74		27					3			30
7.62-mm GP MG, PKM			2							2
7.62-mm Sniper Rifle, SVD		9					1			10
40-mm Under-Barrel Grenade Lchr	1	66	6				3			76
30-mm Auto Grenade Launcher, AGS-17					6					6
120-mm or 82-mm Mortar			6							6
73-mm Recoilless Gun, SPG-9						3				3
ATGM Manpack, AT-4/SPIGOT						6				6
ATGM Manpack, AT-7/SAXHORN		9								9
ATGL, RPG-7V	1	27	6				3			37
ATRL, RPG-22/26	2	33		3	3	5	3			49
SAM, Shoulder-Fired				9						9
Flamethrower, RPO	2	33					3			38
TRUCKS										
Truck, Utility	1		1					1	1	4
Truck, Light	1		7					1	4	13
Truck, Medium									4	4
Truck, POL (5,000-L)									3	3
Van, Kitchen									1	1
Van, Maintenance									1	1
Ambulance									1	1
TRAILERS										
Trailer, Cargo, 1-Axle									2	2
Trailer, Generator									1	1
Trailer, Kitchen									3	3
Trailer, POL (4,200-L)									3	3
Trailer, Water (900-L)									1	1
RADARS										
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE							1			1
RADIOS										
VHF, Manpack, Low-Power	2	3	5					3	3	16
VHF, Portable, Low-Power	1	15			4	7	1		1	29
VHF, Portable, Very-Low-Power				4						4
VHF, Vehicle Mount, Medium-Power	2	33	1	3	3	5	3	2		52
HF, Vehicle Mount, Medium-Power	2							2		4
Warning Receiver	1									1
MISCELLANEOUS										
Rangefinder/Target Designator, Laser			1							1
Periscopic Aiming Circle			1							1
Collimator			6							6
Night-Vision Goggles	2	42		4	4		4			56
Night-Vision Goggles (Driver)			6					2	3	11
Night-Vision Sight (Small Arms)	1	30	6	3	6	5	6	2	6	65
Night-Vision Sight (MG)			2							2
Night-Vision Sight (AGL)					6					6
Night-Vision Sight (Aiming Circle)			1							1
GPS Receiver			1							1

Battalion Headquarters,
MIBN (APC)

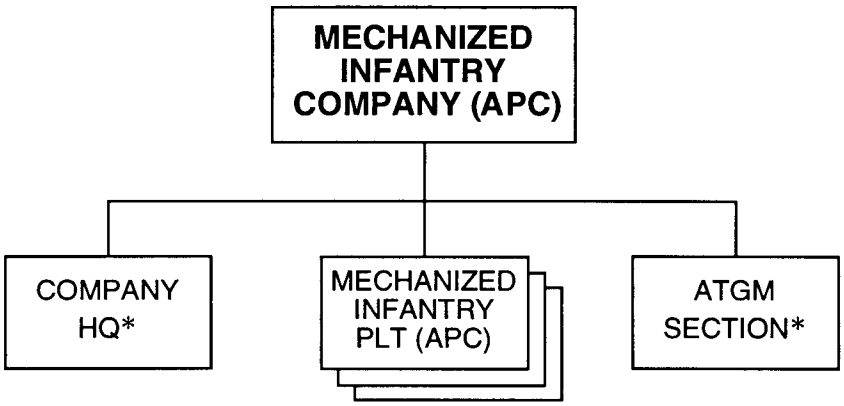
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR-60PBK/70K/80K	1
ACV, BTR (R-145BM)	1
9-mm Pistol, PM	6
5.45-mm Assault Rifle, AK-74	8
40-mm Under-Barrel Grenade Launcher, GP-25/30	1
ATGL, RPG-7V	1
ATRL, RPG-22/26	2
Flamethrower, RPO	2
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	1

Equipment	Total
Truck, Utility	1
Truck, Light	1
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	2
HF, Vehicle Mount, Medium-Power	2
Warning Receiver	1

Mechanized Infantry Company (APC), MIBN (APC)



Company Commander..... PM
Deputy Commander..... PM
Logistics Officer..... PM
First Sergeant..... AK-74
APC Machinegunner..... PM
APC Driver/Mechanic ..... PM

ATGM Operator (x3)..... AT-7/AK-74
Asst Operator (x3)..... AK-74
APC Driver/Mechanic..... PM
APC Machinegunner..... PM

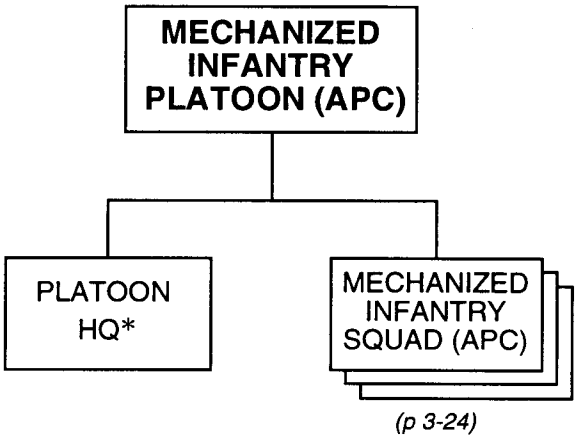
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	11
9-mm Pistol, PM	37
5.45-mm Assault Rifle, AK-74	52
5.45-mm LMG, RPK-74	9
7.62-mm Sniper Rifle, SVD	3
40-mm Under-Barrel Grenade Launcher, GP-25/30	22
ATGM Manpack, AT-7/SAXHORN	3
ATGL, RPG-7V	9

Equipment	Total
ATRL, RPG-22/26	11
Flamethrower, RPO	11
Night-Vision Goggles	14
Night-Vision Sight (Small Arms)	10
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	5
VHF, Vehicle Mount, Medium-Power	11

* The company headquarters and the ATGM section each have one APC.

Mechanized Infantry Platoon (APC), MIC (APC)



Platoon Leader ..... PM
Asst Platoon Leader AK-74
Sniper AK-74/SVD
Riflemen/Medic AK-74

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	3
9-mm Pistol, PM	10
5.45-mm Assault Rifle, AK-74	15
5.45-mm LMG, RPK-74	3
7.62-mm Sniper Rifle, SVD	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
ATGL, RPG-7V	3

Equipment	Total
ATRL, RPG-22/26	3
Flamethrower, RPO	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	3

* With a standard eight-man squad, each APC has three empty seats. The platoon leader and the sniper normally ride in the first squad vehicle, the assistant platoon leader in the second, and the rifleman/medic in the third. The sniper has an assault rifle for normal combat. However, he also has a sniper rifle in the APC for those instances when he acts as a sniper.

Mechanized Infantry Squad (APC), MIP (APC)

MECHANIZED INFANTRY SQUAD (APC)*

Squad Leader/APC Commander AK-74
APC Driver/Mechanic ..... PM
APC Machinegunner ..... PM
Machinegunner** RPK-74
Grenadier ..... RPG-7V, PM
Rifleman/Asst Grenadier AK-74
Senior Rifleman/Asst Squad Leader AK-74
Rifleman** AK-74

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	1
9-mm Pistol, PM	3
5.45-mm Assault Rifle, AK-74	4
5.45-mm LMG, RPK-74	1
40-mm Under-Barrel Grenade Launcher, Launcher,GP-25/30	2
ATGL, RPG-7V	1

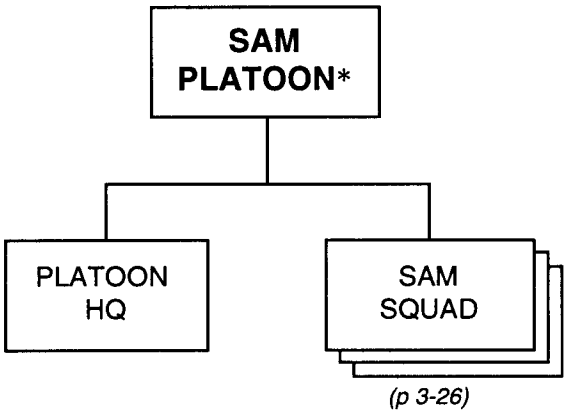
Equipment	Total
ATRL, RPG-22/26***	1
Flamethrower, RPO	1
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	1
Radio, VHF, Vehicle Mount, Medium-Power	1

* The dismounted squad element consists of six men. The APC driver/mechanic and APC machinegunner remain with the APC to provide fire support. The dismounted squad does not have a portable radio.

** Some squads may have a second machinegunner in lieu of the rifleman. This would change the equipment totals to three rifles and two machineguns.

*** The RPG-7V has a dedicated operator (grenadier), but the RPG-22/26 does not.

SAM Platoon, MIBN (APC)



(p 3-26)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	9
APC, BTR-60/70/80	3
9-mm Pistol, PM	16
5.45-mm Assault Rifle, AK-74	9
ATRL, RPG-22/26	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Portable, Very-Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

* Depending on the situation, the battalion commander may retain the entire SAM platoon under his own control, or he may allocate its squads to individual mechanized infantry companies.

SAM Squad, SAM Plt, MIBN (APC)

SAM SQUAD

SAM Operator (x3)* ..... SAM Launcher, PM
Rifleman/Asst Operator (x3)..... AK-74
APC Driver/Mechanic..... AK-74
APC Machinegunner..... PM

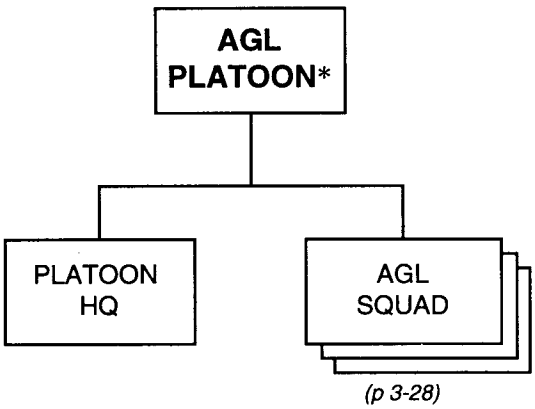
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired**	3
APC, BTR-60/70/80	1
9-mm Pistol, PM	5
5.45-mm Assault Rifle, AK-74	3
ATRL, RPG-22/26	1
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	1
Radios:	
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	1

* One of the SAM operators is also the squad leader.

** The squad's APC carries up to five missiles for each SAM launcher. When dismounted, each SAM operator carries a gripstock launcher and one missile; a rifleman/assistant operator carries one additional missile and can bring more from the APC, as required.

Automatic Grenade Launcher Platoon, MIBN (APC)



(p 3-28)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm Automatic Grenade Launcher, AGS-17	6
APC, BTR-60/70/80	3
9-mm Pistol, PM	13
5.45-mm Assault Rifle, AK-74	18
ATRL, RPG-22/26	3
Night-Vision Goggles	4

Equipment	Total
Night-Vision Sight (AGL)	6
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

* Depending on the situation, the mechanized infantry battalion commander may retain the entire AGL platoon under his own control, or he may allocate its squads to individual mechanized infantry companies.

Automatic Grenade Launcher Squad, AGL Plt, MIBN (APC)

AGL SQUAD

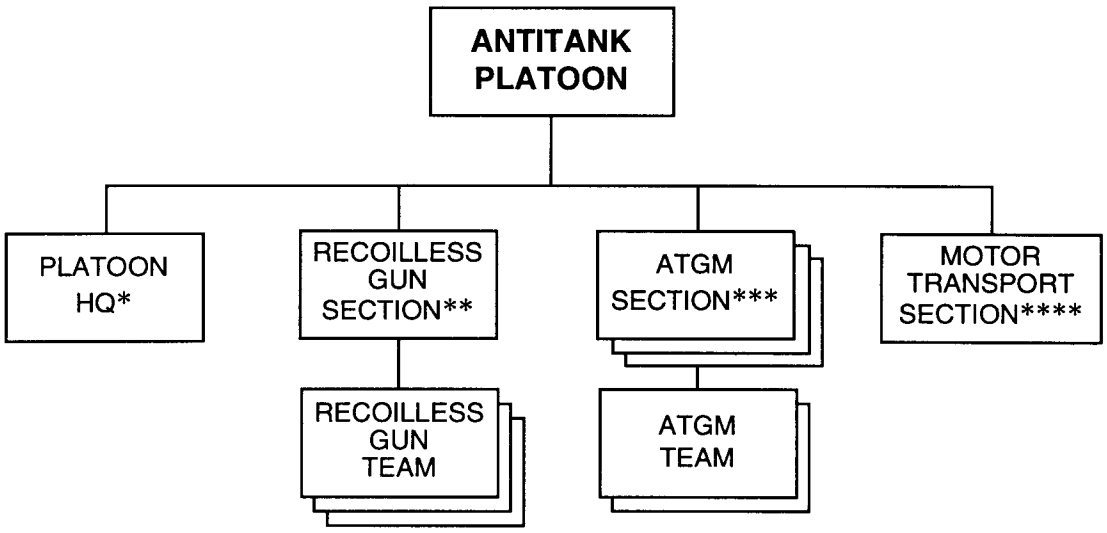
Squad Leader AK-74
Senior Rifleman AK-74, RPG-22/26
Grenadier (x2) ..... AGS-17, PM
Rifleman/Asst Grenadier (x4) AK-74
APC Driver/Mechanic..... PM
APC Machinegunner..... PM

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm Automatic Grenade Launcher, AGS-17	2
9-mm Pistol, PM	4
5.45-mm Assault Rifle, AK-74	6
ATRL, RPG-22/26	1
APC, BTR-60/70/80	1
Night-Vision Goggles	1

Equipment	Total
Night-Vision Sight (AGL)	2
Night-Vision Sight (Small Arms)	2
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	1

Antitank Platoon, MIBN (APC)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	5
ATGM Manpack, AT-4/SPIGOT	6
73-mm Recoilless Gun, SPG-9	3
9-mm Pistol, PM	11
5.45-mm Assault Rifle, AK-74	28
ATRL, RPG-22/26	5

Equipment	Total
Night-Vision Sight (Small Arms)	5
Radios:	
VHF, Portable, Low-Power	7
VHF, Vehicle Mount, Medium-Power	5

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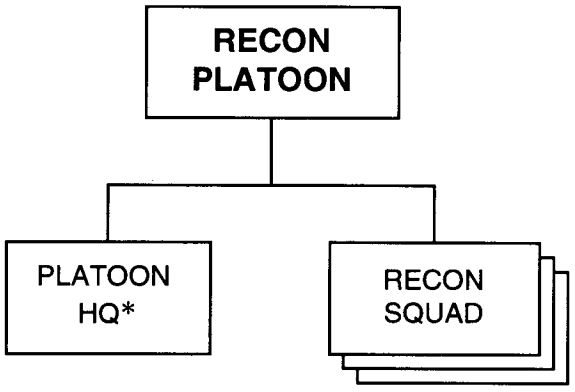
* The platoon leader and assistant platoon leader ride in extra seats in the recoilless gun and ATGM vehicles.

** Recoilless guns deploy by teams. Each team contains one SPG-9.

*** ATGMs deploy by sections. Each section consists of two teams, each containing one AT-4/SPIGOT launcher.

**** Each of the five APCs in the motor transport section can carry one or two recoilless gun teams or one ATGM section.

Reconnaissance Platoon, MIBN (APC)



Platoon Leader..... PM
Asst Platoon Leader..... AK-74
Sniper..... AK-74/SVD
Rifleman/Medic..... AK-74

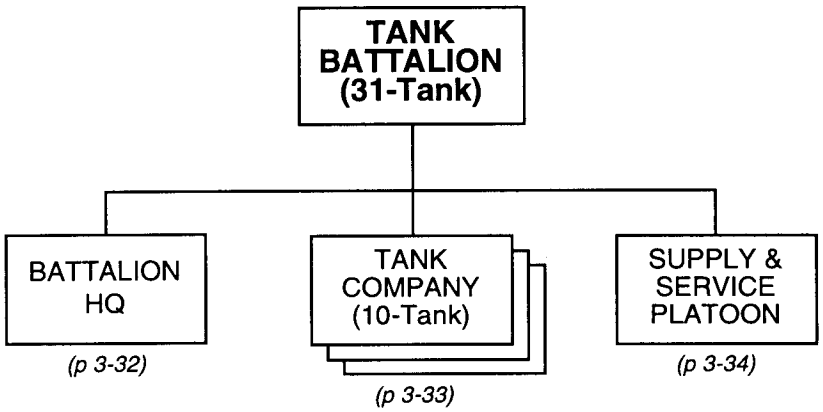
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	3
9-mm Pistol, PM	10
5.45-mm Assault Rifle, AK-74	15
5.45-mm LMG, RPK-74	3
7.62-mm Sniper Rifle, SVD	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	3
ATGL, RPG-7V	3
ATRL, RPG-22/26	3

Equipment	Total
Flamethrower, RPO	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	6
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	3

* The platoon leader, assistant platoon leader, sniper, and rifleman/medic ride in extra seats in the reconnaissance squad vehicles.

Tank Battalion (31-Tank Standard), MIBR and TBR



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64K/72K/80K (Command Vehicle)	1
Medium Tank, T-64/72/80	30
ACV, BMP-1K/2K/3K	1
ACV, BTR (R-145BM)	1
9-mm Pistol, PM	79
5.45-mm Assault Rifle, AKS-74	50
ATGL, RPG-7V	2
Mineclearing Plow, KMT-6/8	9
Truck, Medium	7
Truck, POL (5,000-Liter)	5 *
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1

Equipment	Total
Trailer, Cargo, 2-Axle	6
Trailer, Generator	1
Trailer, POL (4,200-Liter)	4 *
Trailer, Water (900-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	33
HF, Manpack, Low-Power	2
HF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

* A battalion equipped with gas-turbine-powered T-80 tanks requires seven POL trucks and seven POL trailers.

Battalion Headquarters, TBN (Except 44-Tank Variant)

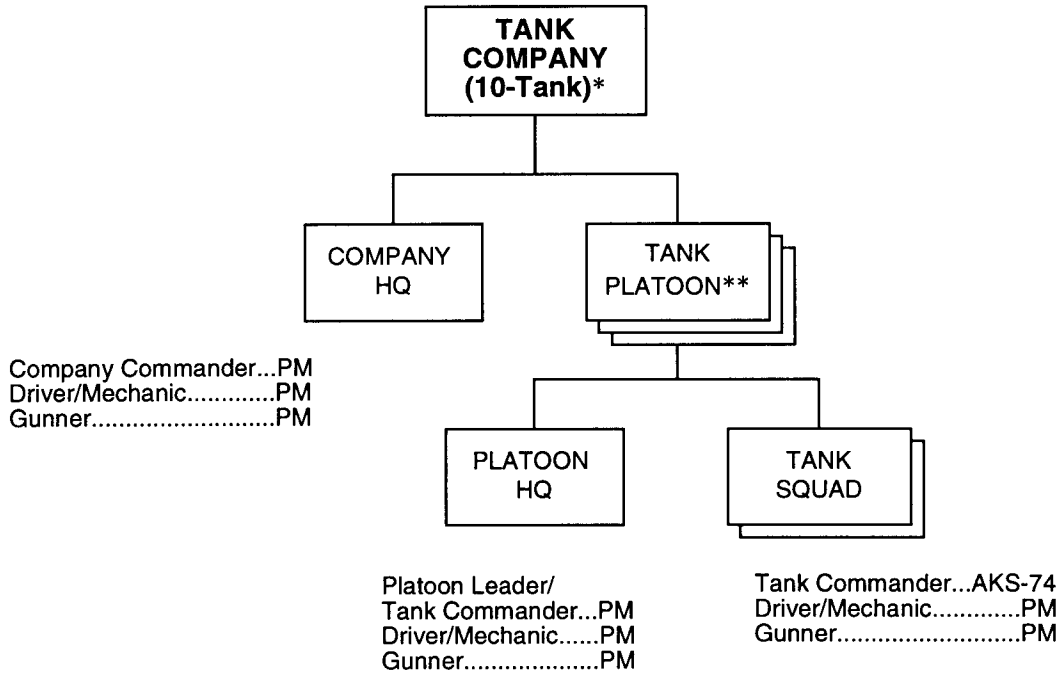
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64K/72K/80K (Command Vehicle)	1
ACV, BTR (R-145BM)	1
ACV, BMP-1K/2K/3K	1
9-mm Pistol, PM	6
5.45-mm Assault Rifle, AKS-74	8
ATGL, RPG-7V	2
Night-Vision Sight (Small Arms)	2

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	3
HF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	1
Warning Receiver	1

Tank Company (10-Tank Standard), TBN, MIBR (IFV or APC) and TBR



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64/72/80	10
9-mm Pistol, PM	24 *
5.45-mm Assault Rifle, AKS-74	6
Mineclearing Plow, KMT-6/8	3

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	10
HF, Vehicle Mount, Medium-Power	1

* In companies equipped with tanks (such as T-55/62) without automatic loaders, each tank has one additional crew member, a loader. The loader carries a PM pistol.

** One tank in each platoon mounts a mineclearing plow.

Supply and Service Platoon, TBN (31-Tank Standard)

SUPPLY & SERVICE PLATOON

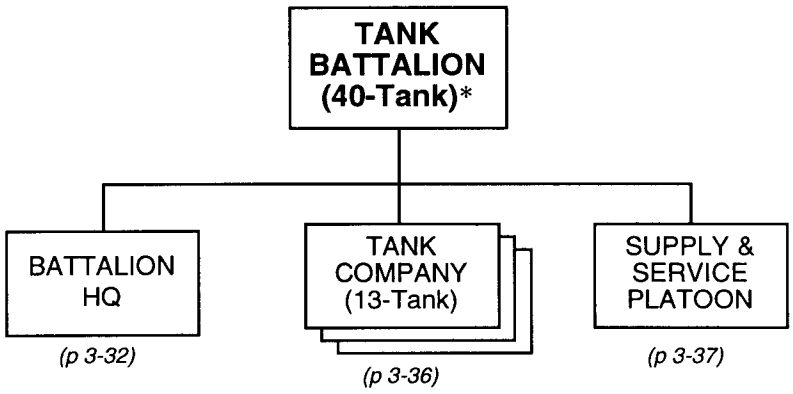
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	24
Truck, Medium	7
Truck, POL (5,000-Liter)	5 *
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6

Equipment	Total
Trailer, Generator	1
Trailer, POL (4,200-Liter)	4 *
Trailer, Water (900-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	4
Radios:	
VHF, Manpack, Low-Power	1
HF, Manpack, Low-Power	1

* A battalion equipped with gas-turbine-powered T-80 tanks requires seven POL trucks and seven POL trailers.

Tank Battalion (40-Tank Variant), MIBR (Div)



PRINCIPAL ITEMS OF EQUIPMENT

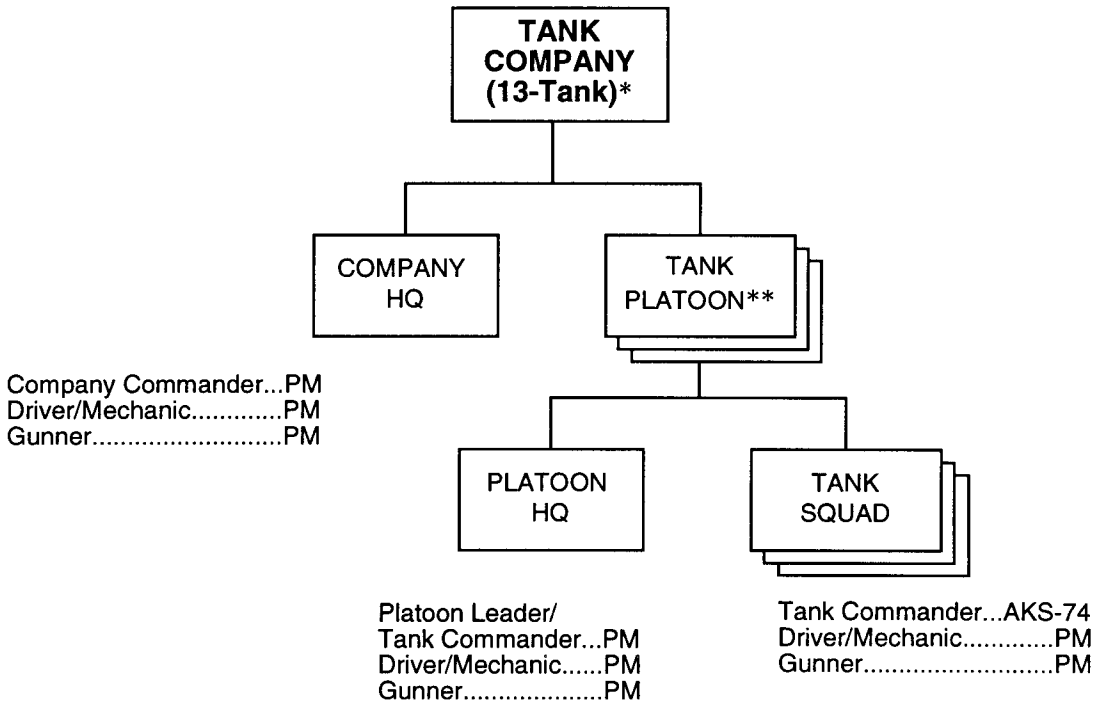
Equipment	Total	
Medium Tank, T-64K/72K/80K (Command Vehicle)	1	
Medium Tank, T-64/72/80	39	
ACV, BMP-1K/2K/3K	1	
ACV, BTR (R-145BM)	1	
9-mm Pistol, PM	97	
5.45-mm Assault Rifle, AKS-74	61	
ATGL, RPG-7V	2	
Mineclearing Plow, KMT-6/8	9	
Truck, Medium	7	
Truck, POL (5,000-Liter)	7	*
Van, Kitchen	1	
Van, Maintenance	1	
Ambulance	1	
Trailer, Cargo, 1-Axle	1	

Equipment	Total	
Trailer, Cargo, 2-Axle	6	
Trailer, Generator	1	
Trailer, POL (4,200-Liter)	5	**
Trailer, Water (900-Liter)	1	
Night-Vision Goggles	2	
Night-Vision Sight (Small Arms)	6	
Radios:		
VHF, Manpack, Low-Power	1	
VHF, Vehicle Mount, Medium-Power	42	
HF, Manpack, Low-Power	2	
HF, Vehicle Mount, Medium-Power	6	
Warning Receiver	1	

* This variant differs from the standard 31-tank battalion by having 13 tanks per company rather than the normal 10.

** A battalion equipped with gas-turbine-powered T-80 tanks requires 9 POL trucks and 8 POL trailers.

Tank Company (13-Tank Variant), TBN (40-Tank Variant)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64/72/80	13
9-mm Pistol, PM	30
5.45-mm Assault Rifle, AKS-74	9
Mineclearing Plow, KMT-6/8	3

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	13
HF, Vehicle Mount, Medium-Power	1

* In companies equipped with tanks (such as T-55/62) without automatic loaders, each tank would have one additional crew member, a loader. The loader carries a PM pistol. This variant differs from the standard 10-tank company by having 4 tanks per platoon rather than the normal 3.

** One tank in each platoon mounts a mineclearing plow.

Supply and Service Platoon, TBN (40-Tank Variant)

SUPPLY & SERVICE PLATOON

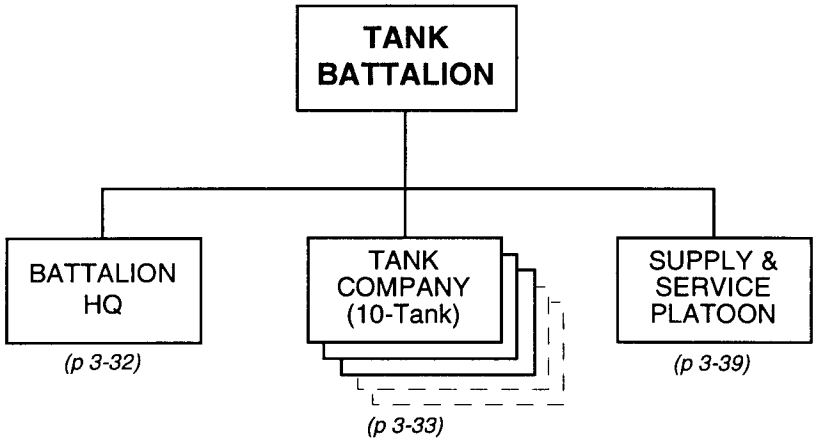
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	26
Truck, Medium	7
Truck, POL (5,000-Liter)	7 *
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6

Equipment	Total
Trailer, Generator	1
Truck, POL (4,200-Liter)	5 *
Trailer, Water (900-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	4
Radios:	
VHF, Manpack, Low-Power	1
HF, Manpack, Low-Power	2

* A battalion with gas-turbine-powered T-80 tanks requires nine POL trucks and eight POL trailers.

Tank Battalion, MIBR (Sep) and TBR (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
Medium Tank, T-64K/72K/80K (Command Vehicle)	1
Medium Tank, T-64/72/80	30/40/50
ACV, BMP-1K/2K/3K	1
ACV, BTR (R-145BM)	1
9-mm Pistol, PM	79/103/127
5.45-mm Assault Rifle, AKS-74	50/58/65
ATGL, RPG-7V	2
Mineclearing Plow, KMT-6/8	9/12/15
Truck, Medium	7/9/11
Truck, POL (5,000-Liter)	5/7/8 **
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1

Equipment	Total *
Trailer, Cargo, 2-Axle	6/8/10
Trailer, Generator	1
Trailer, POL (4,200-Liter)	4/6/8 **
Trailer, Water (1,200-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	33/43/53
HF, Manpack, Low-Power	2
HF, Vehicle Mount, Medium-Power	6/7/8
Warning Receiver	1

* Totals listed with multiple numbers (such as 30/40/50) reflect the numbers of that particular piece of equipment in a battalion equipped with 31, 41, or 51 tanks, respectively.

** When equipped with gas-turbine-powered T-80 tanks, a 31-tank battalion requires 7 POL trucks and 7 POL trailers; a 41-tank battalion requires 9 POL trucks and 9 POL trailers; a 51-tank battalion requires 11 POL trucks and 10 POL trailers.

Supply and Service Platoon, TBN, MIBR (Sep) and TBR (Sep)

SUPPLY & SERVICE PLATOON

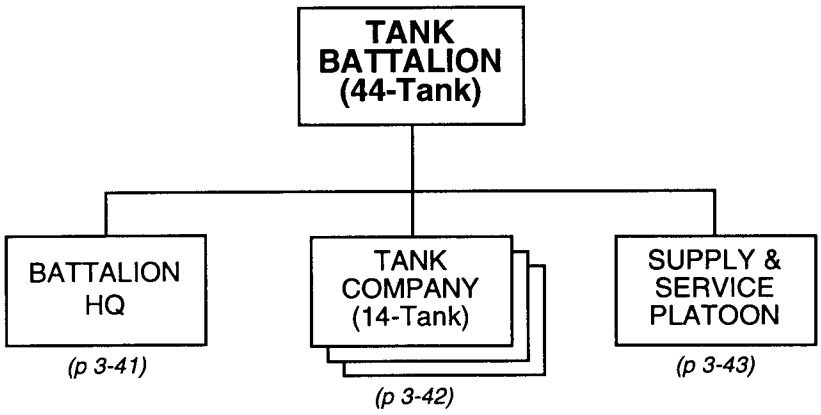
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
9-mm Pistol, PM	1
5.45 Assault Rifle, AK-74	24/28/31
Truck, Medium	7/9/11
Truck, POL (5,000-Liter)	5/7/8 **
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6
Trailer, Generator	1
Trailer, POL (4,200-Liter)	4/6/8 **
Trailer, Water (1,200-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	4
Radios:	
VHF, Manpack, Low-Power	1
HF, Manpack, Low-Power	1

* Totals listed with multiple numbers (such as 24/28/31) reflect the numbers of that particular piece of equipment in a battalion equipped with 31, 41, or 51 tanks, respectively.

** When equipped with gas-turbine-powered T-80 tanks, a 31-tank battalion requires 7 POL trucks and 7 POL trailers; a 41-tank battalion requires 9 POL trucks and 9 POL trailers; a 51-tank battalion requires 11 POL trucks and 10 POL trailers.

Tank Battalion (44-Tank Variant), MIBR and TBR or Motorized Inf Div



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64K/72K/80K (Command Vehicle)	2
Medium Tank, T-64/72/80	42
ACV, BMP-1K/2K/3K	1
ACV, BTR (R-145BM)	1
9-mm Pistol, PM	112
5.45-mm Assault Rifle, AKS-74	85
ATGL, RPG-7V	2
Mineclearing Plow, KMT-6/8	12
Truck, Medium	10
Truck, POL (5,000-Liter)	7 *
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1

Equipment	Total
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1
Trailer, POL (4,200-Liter)	7 *
Trailer, Water (900-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	46
HF, Manpack, Low-Power	2
HF, Vehicle Mount, Medium-Power	10
Warning Receiver	1

* A battalion equipped with gas-turbine-powered T-80 tanks requires 10 POL trucks and 10 POL trailers.

Battalion Headquarters,
TBN (44-Tank Variant)

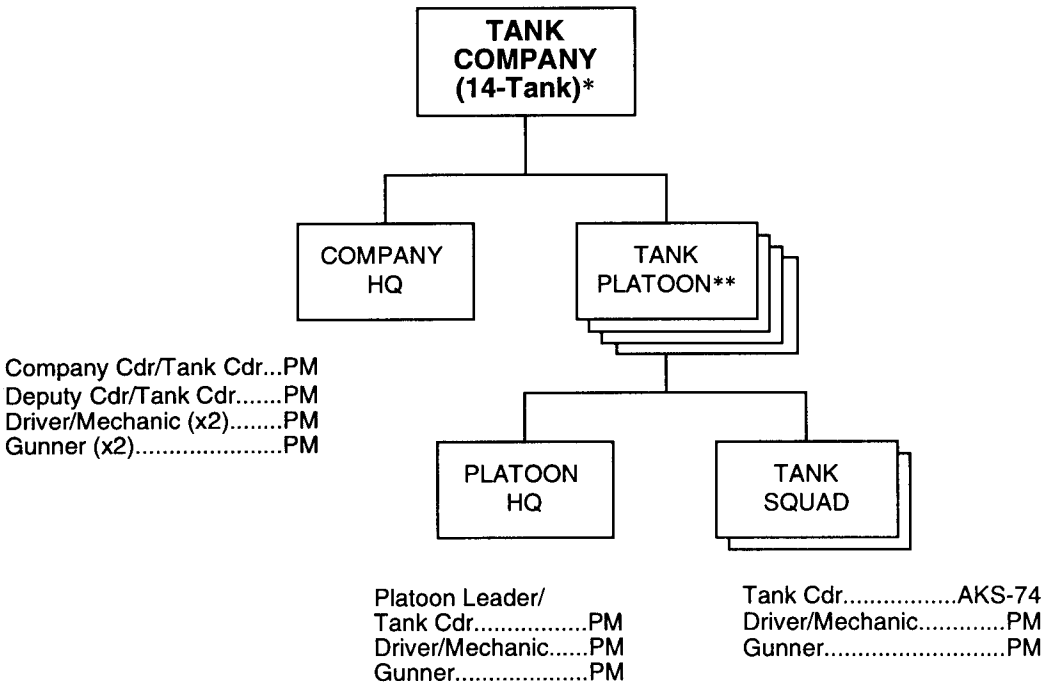
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64K/72K/80K (Command Vehicle)	2
ACV, BTR (R-145BM)	1
ACV, BMP-1K/2K/3K	1
9-mm Pistol, PM	9
5.45-mm Assault Rifle, AKS-74	8
ATGL, RPG-7V	2
Night-Vision Sight (Small Arms)	2

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	4
HF, Vehicle Mount, Medium-Power	4
HF, Manpack, Low-Power	1
Warning Receiver	1

Tank Company (14-Tank Variant), TBN (44-Tank Variant)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Tank, T-64/72/80	14
9-mm Pistol, PM	34
5.45-mm Assault Rifle, AKS-74	16
Mineclearing Plow, KMT-6/8	4

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	14
HF, Vehicle Mount, Medium-Power	2

* In companies equipped with tanks (such as T-55/62) without automatic loaders, each tank would have one additional crew member, a loader. The loader carries a PM pistol. This variant differs from the standard 10-tank company by having 4 platoons rather than the normal 3 and by having a second tank in the company headquarters.

** One tank in each platoon mounts a mineclearing plow.

Supply and Service Platoon, TBN (44-Tank Variant)

SUPPLY & SERVICE PLATOON

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AK-74	29
Truck, Medium	10
Truck, POL (5,000-Liter)	7 *
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1
Truck, POL (4,200-Liter)	7 *
Trailer, Water (900-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	4
Radios:	
VHF, Manpack, Low-Power	1
HF, Manpack, Low-Power	1

* A battalion with gas-turbine-powered T-80 tanks requires 10 POL trucks and 10 POL trailers.

Chapter 4
Armies and Corps

The army is the largest standing combined arms formation. Armies are capable of independent operations, but normally fight as part of an army group. In the latter case, an army typically receives combat support and combat service support assets from the parent army group. Allocation of such assets depends on the role of a particular army in the army group plan. There are two basic types of ground maneuver armies: the mechanized army and the tank army. Neither type has a fixed structure; the exact size and composition depend on the army's mission, the situation, and the area of operations.

The corps is the smallest formation fully organized and equipped to conduct operational maneuver. It is smaller and more maneuverable than an army. As with the army, the corps normally fights as part of an army group and may receive assets allocated from that level. A corps can also conduct independent operations that require less combat power than that of an army. The main maneuver elements of a corps are more likely to be separate brigades, rather than divisions. There are two basic types of corps: the mechanized corps and the tank corps. Again, there is no fixed structure.

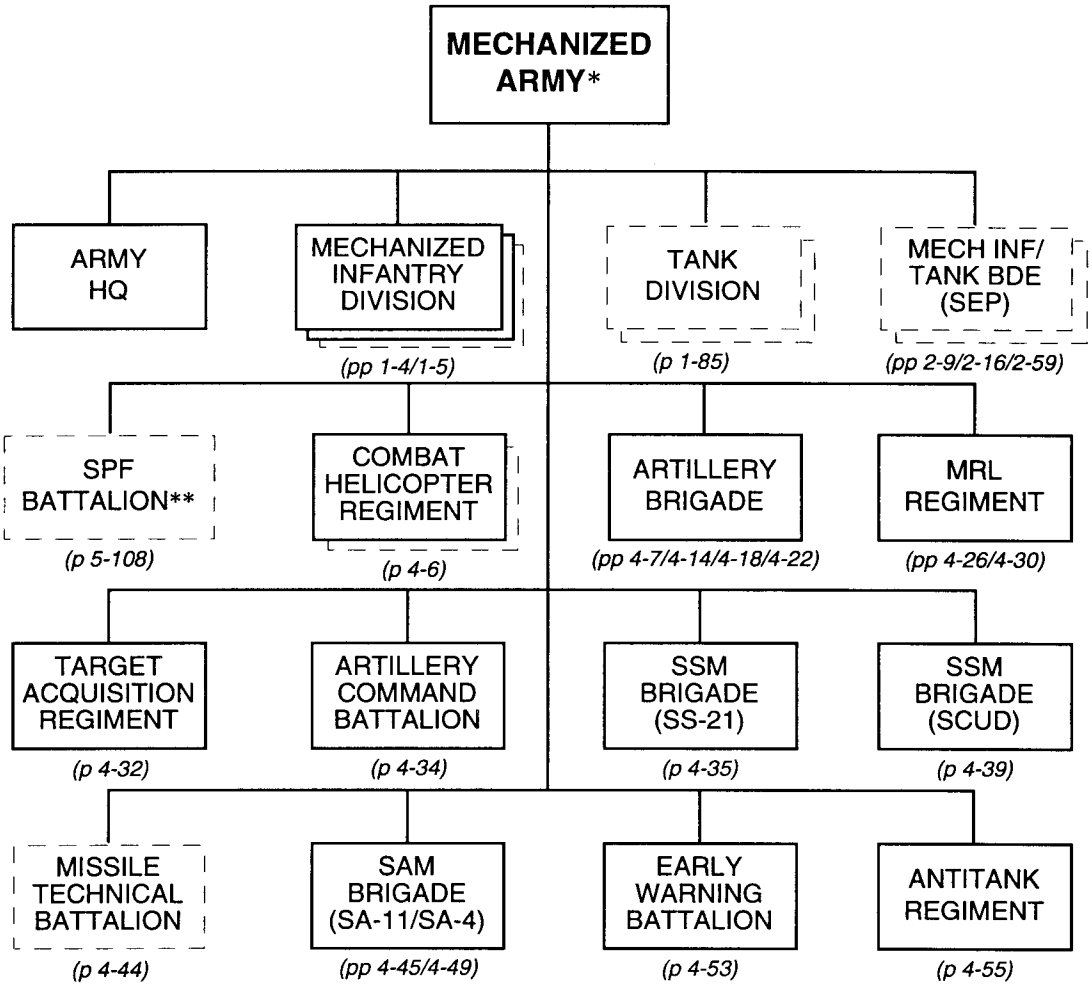
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Mechanized Army



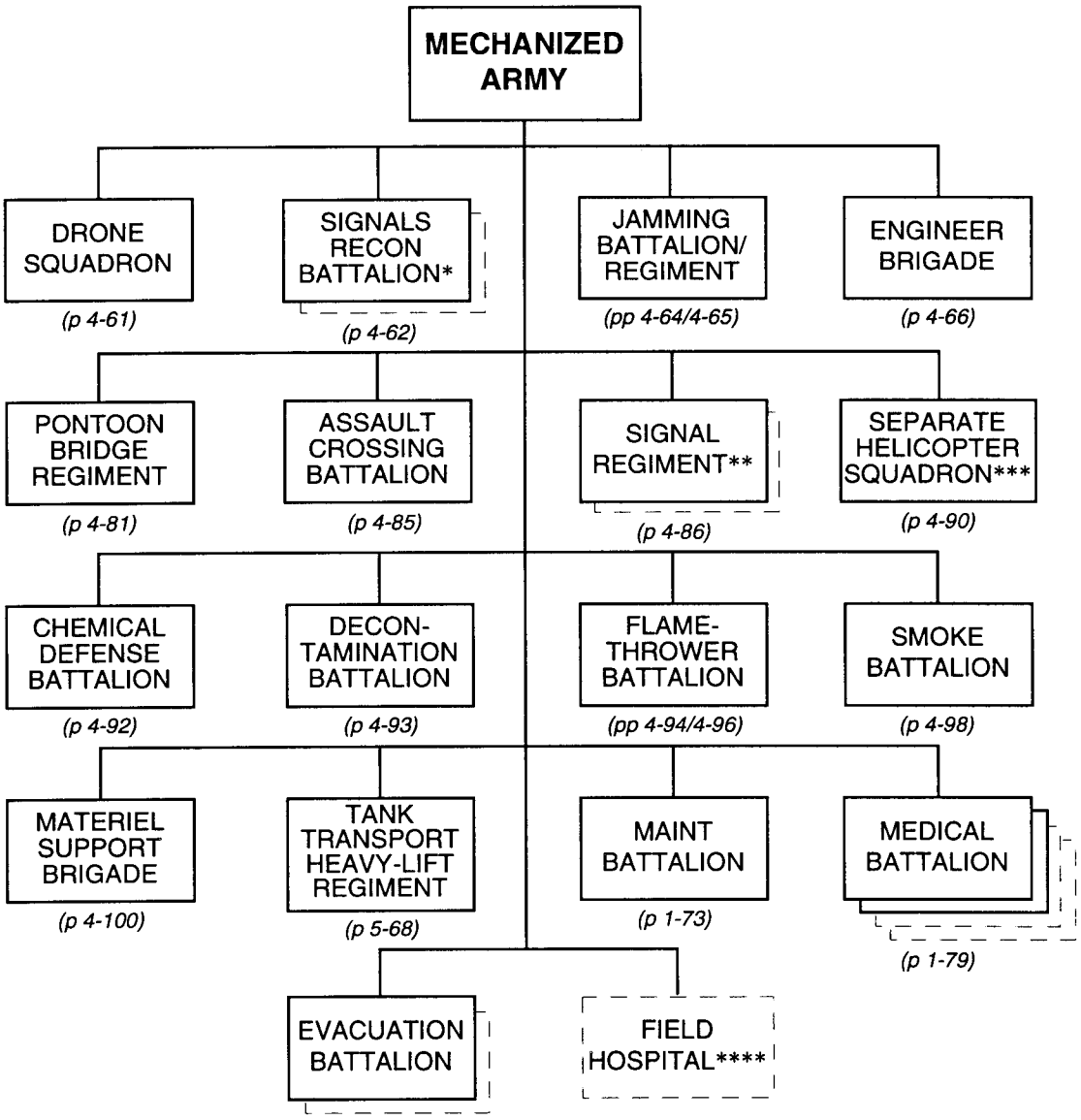
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* A typical mechanized army has two to five divisions, with four being the most common. These generally include at least two mechanized infantry divisions and one tank division. In lieu of one or two of these divisions, the army may have one or two separate mechanized infantry or tank brigades.

** The Main Intelligence Directorate of the General Staff controls all special-purpose forces (SPF). It may allocate up to a battalion of SPF to support the operations of an army.

Mechanized Army (continued)



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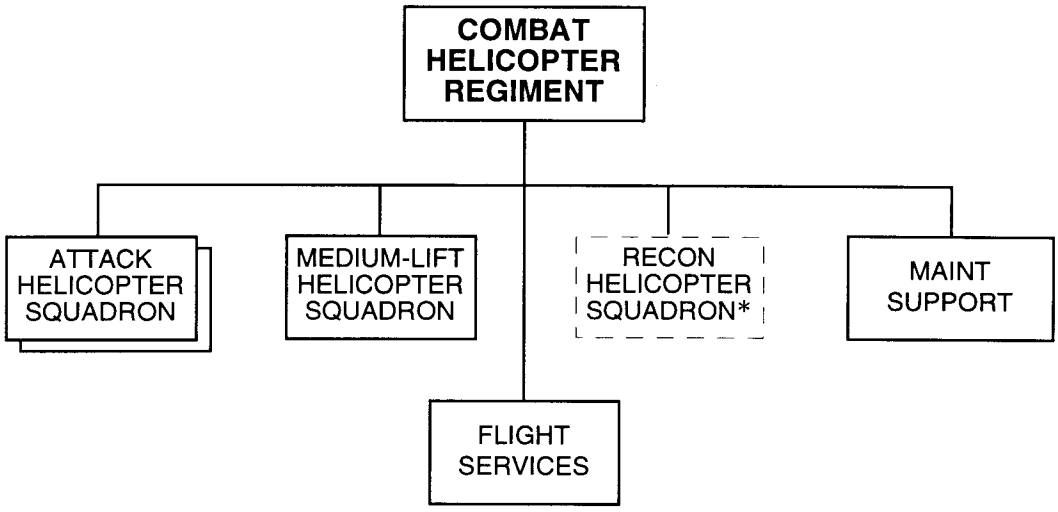
* Instead of one or two signals reconnaissance battalions, an army may have a signals reconnaissance regiment (p 4-63).

** In lieu of a signal regiment, an army may get its communications support from separate battalions. These may include a signal battalion (p 4-87) and/or a radio relay battalion (p 4-88).

*** Some armies may have a mixed aviation squadron (p 4-91) instead of a separate helicopter squadron.

**** The field hospital is an army group asset allocated to some armies.

Combat Helicopter Regiment, Army or Corps

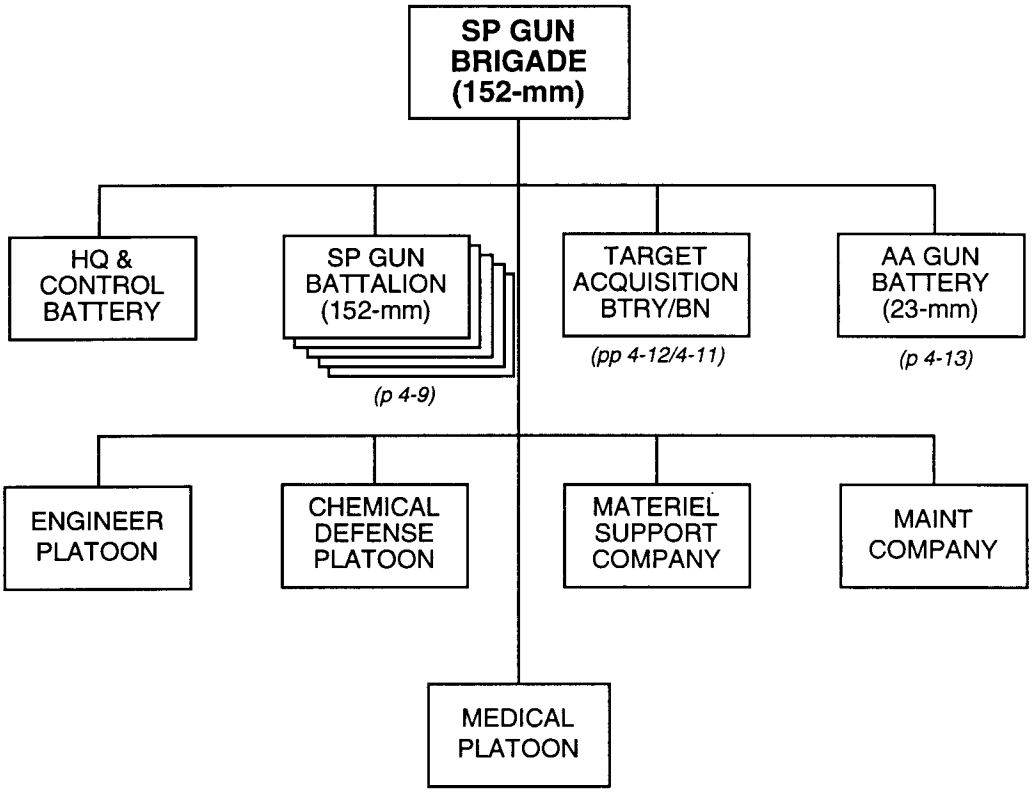


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Attack Helicopter, Mi-24(Mi-35)/HIND E/F or Ka-50/HOKUM	40
Medium Helicopter, Mi-8T/HIP C/E or Mi-8MT(Mi-17)/HIP H	20

* Some combat helicopter regiments may also include six Mi-24R/HIND G1 NBC-sampling helicopters and six Mi-24K/HIND G2 photoreconnaissance helicopters.

152-mm Self-Propelled Gun Brigade (5 x 18-Tube Battalion), Army or Army Group



Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x5)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chem Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	5	1							7
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V13/1V13M/1V22 (Btry FDC)		15								15
ACRV, 1V14/1V14M/1V23 (Btry COP)		15								15
ACRV, 1V15/1V15M/1V24 (Bn COP)		5								5
ACRV, 1V16/1V16M/1V25 (Bn FDC)		5								5
Armored Recovery Vehicle								1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.

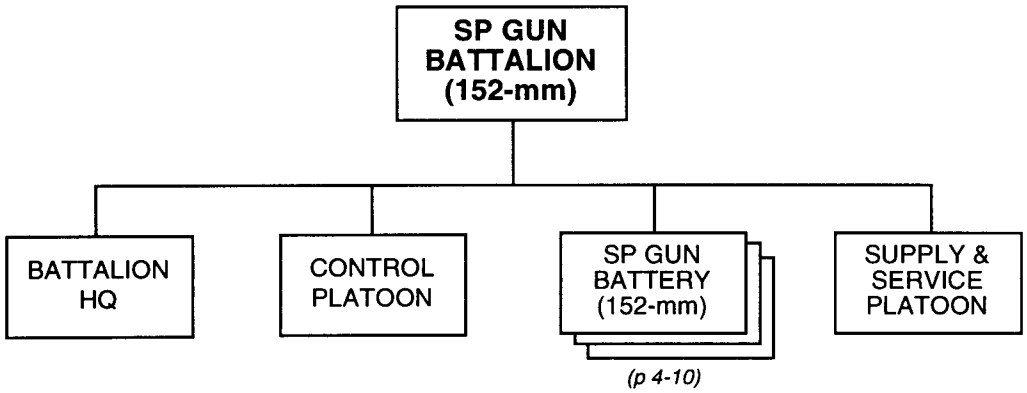
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152-mm Self-Propelled Gun Brigade
(5 x 18-Tube Battalion), Army or Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x5)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS										
152-mm SP Gun, 2S5		90								90
ATGL, RPG-7V	4	30						4		38
SAM, Shoulder-Fired	3	90								93
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
Truck, Utility	6			1	1		1	1		10
Truck, Light	2		2	8	6		1		1	20
Truck, Medium	1	100	4				60	3	2	170
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		20					16			36
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	10	4				2	6		23
Van, Signal	2	20								22
Van, Survey			1							1
Ambulance		5							4	9
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	85					40	3		129
Trailer, Generator	2	10	2		1			2		17
Trailer, Kitchen	1	15	1						1	18
Trailer, Meteorological*			1							1
Trailer, POL (4,200-L)		20					6			26
Trailer, Water (900/1,200-L)	1	5	1			2	2		1	12
RADIOS										
VHF, Manpack, Low-Power	6	50	13	3			1	1	1	75
VHF, Portable, Low-Power	1									1
VHF, Vehicle Mount, Medium-Power	5	135	4		4	3				151
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	20								23
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	10	1	1						13
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	35	2							38
Rangefinder, Laser, Binocular		45								45
Periscopic Aiming Circle	1	30	2							33
Night-Vision Sight (Aiming Circle)	1	30	2							33
GPS Receiver	1	160	4							165

* This trailer carries the END TRAY meteorological radar.

152-mm Self-Propelled Gun Battalion (18-Tube), 152-mm SP Gun Bde or 152-mm Arty Bde



PRINCIPAL ITEMS OF EQUIPMENT

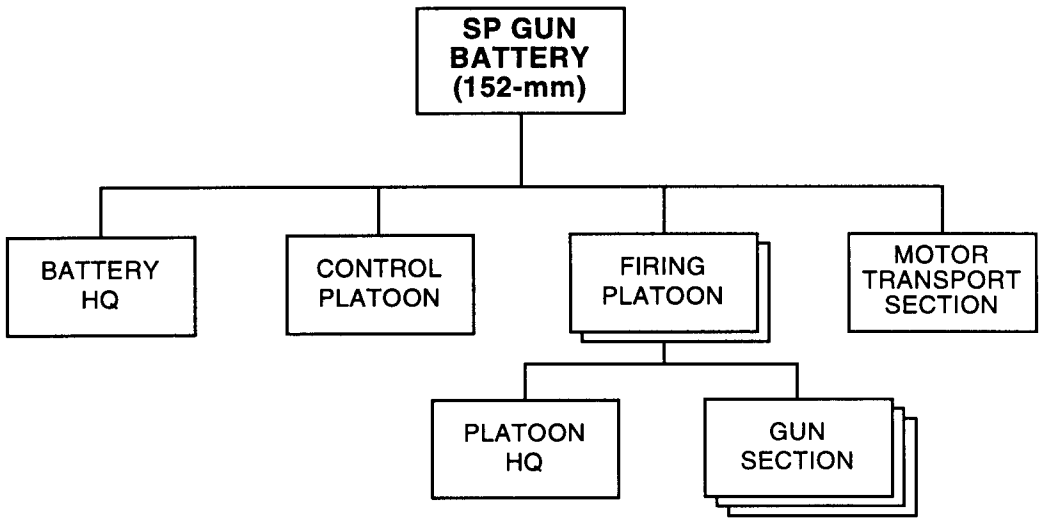
Equipment	Total
152-mm SP Gun, 2S5	18
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V13/1V13M/1V22 (Btry FDC)	3
ACRV, 1V14/1V14M/1V23 (Btry COP)	3
ACRV, 1V15/1V15M/1V24 (Bn COP)	1
ACRV, 1V16/1V16M/1V25 (Bn FDC)	1
Mobile Recon Post, PRP-3/4**	1
5.45-mm LMG, RPK-74	18
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Medium	20
Truck, POL (5,000-Liter)	4
Van, Maintenance	2
Van, Signal	4
Ambulance	1

Equipment	Total
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	4
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	27
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all SP gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2S5), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

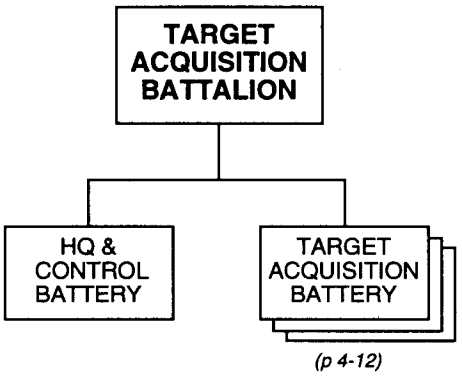
152-mm Self-Propelled Gun Battery (6-Tube), 152-mm SP Gun Bn (18-Tube)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm SP Gun, 2S5	6
ACRV, 1V13/1V13M/1V22 (Btry FDC)	1
ACRV, 1V14/1V14M/1V23 (Btry COP)	1
5.45-mm LMG, RPK-74	6
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	3
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	8
HF/VHF, Vehicle Mount, Medium-Power	1

Target Acquisition Battalion, 152-mm SP Gun Bde or 152-mm Gun Bde or 152-mm Gun-How Bde or 152-mm Arty Bde or 122-mm How Bde or Heavy Arty Bde or MRL Bde or Corps or Tgt Acq Regt



(p 4-12)

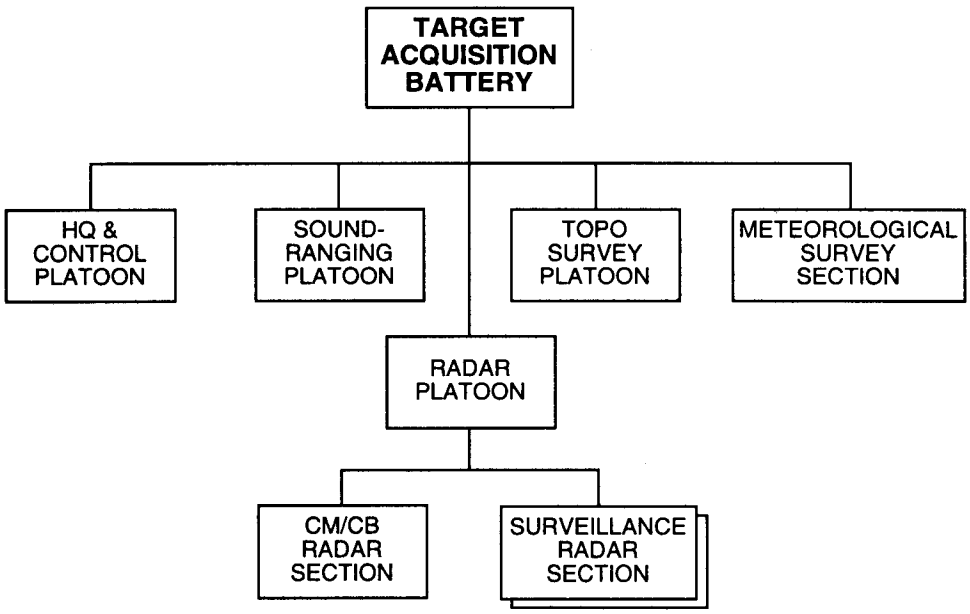
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	1
ACV, BTR (R-145-BM)	5
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1
Mobile Recon Post, PRP-3/4*	4
APC, Radar, MT-LB (SNAR-10)**	3
APC, Radar, MT-LB (ARK-1)***	3
ATGL, RPG-7V	4
SAM, Shoulder-Fired	3
Truck, Utility	6
Truck, Light	8
Truck, Medium	13
Van, Maintenance	13
Van, Signal	2
Van, Survey	3
Trailer, Cargo, 1-Axle	3
Trailer, Cargo, 2-Axle	1
Trailer, Generator	8
Trailer, Kitchen	4
Trailer, Meteorological****	3

Equipment	Total
Trailer, Water (900-Liter)	4
Sound-Ranging Set	3
Rangefinder, Laser, 1D8/1D12	7
Periscopic Aiming Circle, PAB2A	7
Night-Vision Sight (Aiming Circle)	7
GPS Receiver	13
Radios:	
VHF, Manpack, Low-Power	45
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	17
HF, Manpack, Low-Power	1
HF, Vehicle Mount, Medium-Power	5
HF/VHF, Vehicle Mount, Medium-Power	3
HF/VHF, Vehicle Mount, High-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	4

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** This trailer carries the END TRAY meteorological radar.

Target Acquisition Battery, 152-mm SP Gun Bde or 152-mm Gun Bde or 152-mm Gun-How Bde or 152-mm Arty Bde or 122-mm How Bde or Heavy Arty Bde or MRL Regt or MRL Bde or Tgt Acq Bn



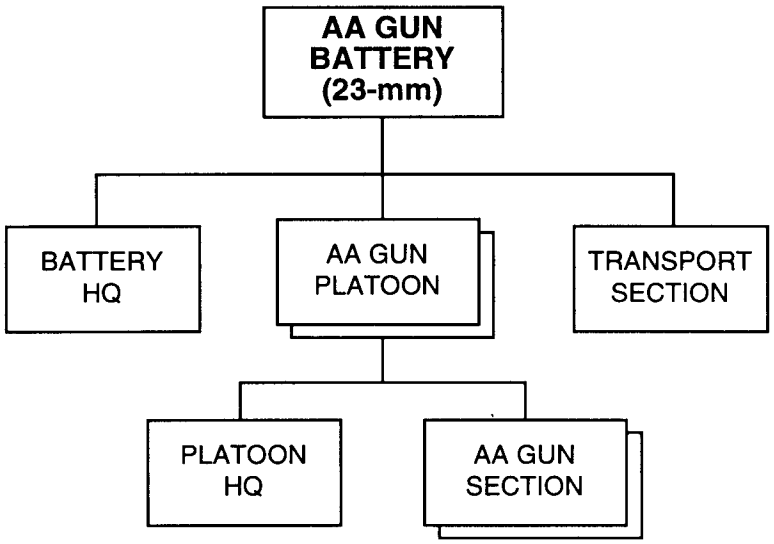
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	1
Mobile Recon Post, PRP-3/4*	1
APC, Radar, MT-LB (SNAR-10)**	1
APC, Radar, MT-LB (ARK-1)***	1
Sound-Ranging Set	1
Truck, Light	2
Truck, Medium	4
Van, Maintenance	4
Van, Survey	1
Trailer, Cargo, 1-Axle	1
Trailer, Generator	2
Trailer, Kitchen	1

Equipment	Total
Trailer, Meteorological****	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	2
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	4
Radios:	
VHF, Manpack, Low-Power	13
VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** This trailer carries the END TRAY meteorological radar.

23-mm Antiaircraft Gun Battery, 152-mm SP Gun Bde or 152-mm Gun Bde or 152-mm Gun-How Bde or 152-mm Arty Bde or 122-mm How Bde or Heavy Arty Bde or MRL Bde or SAM Bn (SA-4 or SA-11 or SA-12) or Early Warning Bn

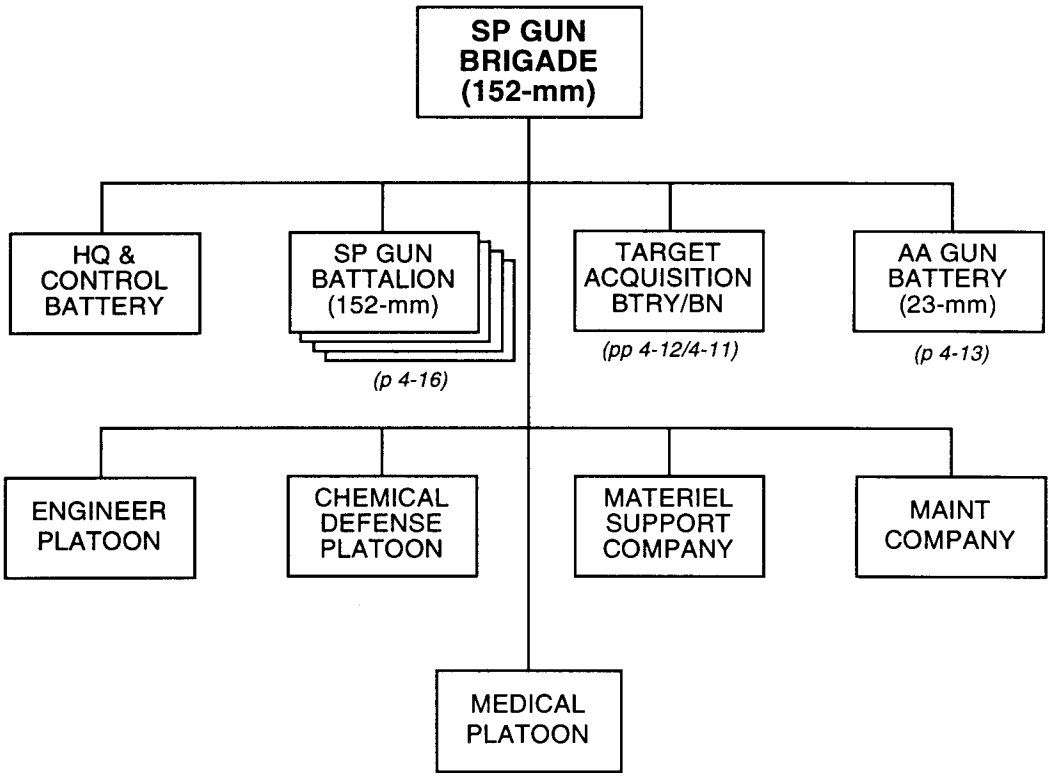


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
23-mm AA Gun, ZU-23	8
Truck, Utility	1
Truck, Light	8

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	3
Warning Receiver	1

152-mm Self-Propelled Gun Brigade (4 x 24-Tube Battalion), Army or Army Group



Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chem Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V13/1V13M/1V22 (Btry FDC)		24								24
ACRV, 1V14/1V14M/1V23 (Btry COP)		12								12
ACRV, 1V15/1V15M/1V24 (Bn COP)		4								4
ACRV, 1V16/1V16M/1V25 (Bn FDC)		4								4
Armored Recovery Vehicle								1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.

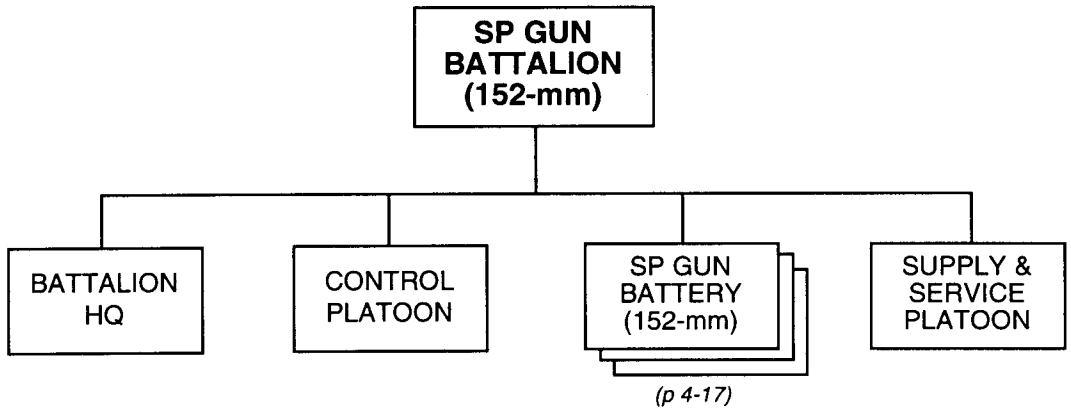
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152-mm Self-Propelled Gun Brigade (4 x 24-Tube Battalion), Army or Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS										
152-mm SP Gun, 2S5		96								96
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	96								99
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
Truck, Utility	6			1	1		1	1		10
Truck, Light	2		2	8	6		1		1	20
Truck, Medium	1	92	4				45	3	2	147
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		16					8			24
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	8	4				2	6		21
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	84					30	3		118
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	12	1						1	15
Trailer, Meteorological*			1							1
Trailer, POL (4,200-L)		16					8			24
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11
RADIOS										
VHF, Manpack, Low-Power	6	40	13	3			1	1	1	65
VHF, Portable, Low-Power	1									1
VHF, Vehicle Mount, Medium-Power	5	132	4		4	3				148
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	152	4							157

* This trailer carries the END TRAY meteorological radar.

152-mm Self-Propelled Gun Battalion (24-Tube), 152-mm SP Gun Bde or 152-mm Arty Bde



(p 4-17)

PRINCIPAL ITEMS OF EQUIPMENT

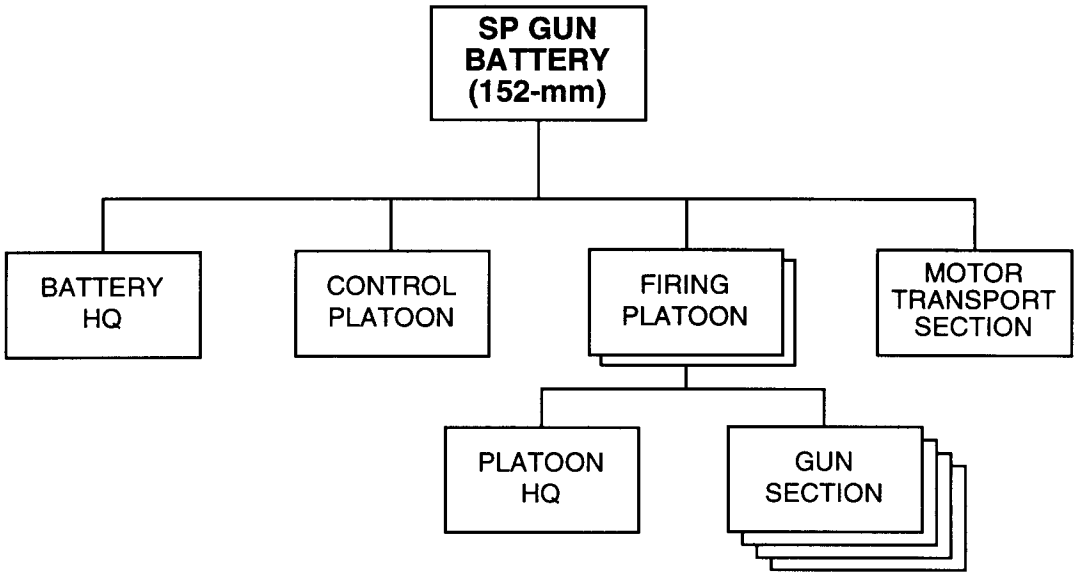
Equipment	Total
152-mm SP Gun, 2S5	24
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V13/1V13M/1V22 (Btry FDC)	6
ACRV, 1V14/1V14M/1V23 (Btry COP)	3
ACRV, 1V15/1V15M/1V24 (Bn COP)	1
ACRV, 1V16/1V16M/1V25 (Bn FDC)	1
Mobile Recon Post, PRP-3/4**	1
5.45-mm LMG, RPK-74	24
SAM, Shoulder-Fired	24
ATGL, RPG-7V	6
Truck, Medium	23
Truck, POL (5,000-Liter)	4
Van, Maintenance	2
Van, Signal	4
Ambulance	1

Equipment	Total
Trailer, Cargo, 2-Axle	21
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	4
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	38
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	33
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all SP gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2S5), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

152-mm Self-Propelled Gun Battery (8-Tube), 152-mm SP Gun Bn (24-Tube)

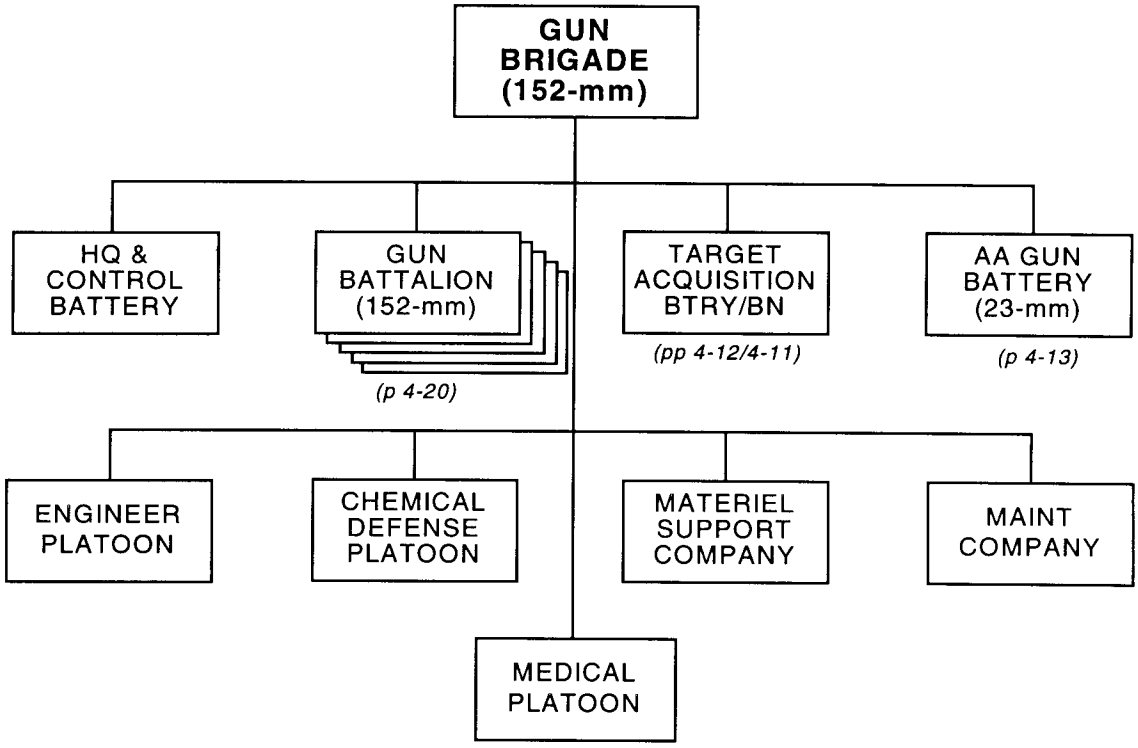


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm SP Gun, 2S5	8
ACRV, 1V13/1V13M/1V22 (Btry FDC)	2
ACRV, 1V14/1V14M/1V23 (Btry COP)	1
5.45-mm LMG, RPK-74	8
SAM, Shoulder-Fired	8
ATGL, RPG-7V	2
Truck, Medium	4
Van, Signal	1
Trailer, Cargo, 2-Axle	4
Rangefinder, Laser, 1D8/1D12	2

Equipment	Total
Rangefinder, Laser, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	12
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	10
HF/VHF, Vehicle Mount, Medium-Power	1

152-mm Gun Brigade (5 x 18-Tube Battalion), Army or Arty Div



Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun Bn (x5)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	5	1							7
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		15								15
ACRV, 1V19/1V152 (Bn COP)****		5								5
Armored Recovery Vehicle								1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 ACRV is part of the Kapustnik-B automated fire control system.

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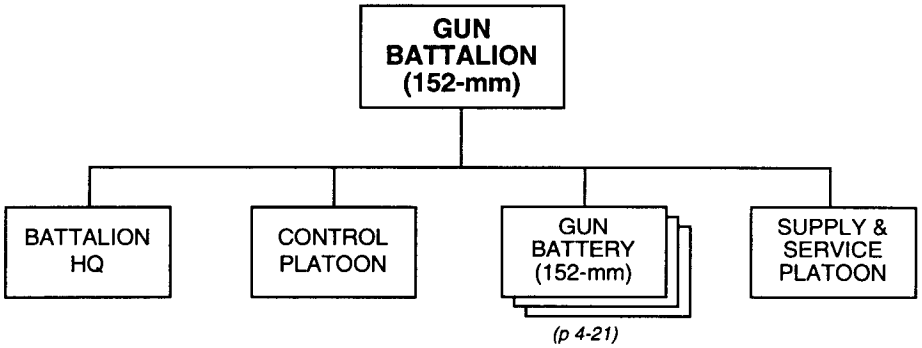
152-mm Gun Brigade (5 x 18-Tube Battalion), Army or Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun Bn (x5)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS										
152-mm Field Gun, 2A36		90								90
ATGL, RPG-7V	4	30						4		38
SAM, Shoulder-Fired	3	90								93
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)*		15								15
ACRV, 1V111/1V153 (Bn FDC)*		5								5
Truck, Utility	6	5		1	1		1	1		15
Truck, Light	2	45	2	8	6		1		1	65
Truck, Medium	1	185	4				60	3	2	255
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		10					16			26
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	5	4				2	6		18
Van, Signal	2	20								22
Van, Survey			1							1
Ambulance		5							4	9
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	85					40	3		129
Trailer, Generator	2	10	2		1			2		17
Trailer, Kitchen	1	20	1						1	23
Trailer, Meteorological**			1							1
Trailer, POL (4,200-L)		10					16			26
Trailer, Water (900/1,200-L)	1	5	1			2	2		1	12
RADIOS										
VHF, Manpack, Low-Power	6	70	13	3			1	1	1	95
VHF, Portable, Low-Power	1	115								116
VHF, Vehicle Mount, Medium-Power	5	45	4		4	3				61
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	20								23
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	10	1	1						13
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	35	2							38
Rangefinder, Laser, Binocular		45								45
Periscopic Aiming Circle	1	30	2							33
Night-Vision Sight (Aiming Circle)	1	30	2							33
GPS Receiver	1	160	4							165

* The 1V153 ACRV is part of the Kapustnik-B automated fire control system.

** This trailer carries the END TRAY meteorological radar.

152-mm Gun Battalion (18-Tube), 152-mm Gun Bde or 152-mm Arty Bde



(p 4-21)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Field Gun, 2A36	18
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V18/1V152 (Btry COP)**	3
ACRV, 1V19/1V152 (Bn COP)**	1
ACRV, 1V110/1V153 (Btry FDC)**	3
ACRV, 1V111/1V153 (Bn FDC)**	1
Mobile Recon Post, PRP-3/4***	1
7.62-mm GP MG, PKM	18
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Light	9
Truck, Medium	37
Truck, POL (5,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1

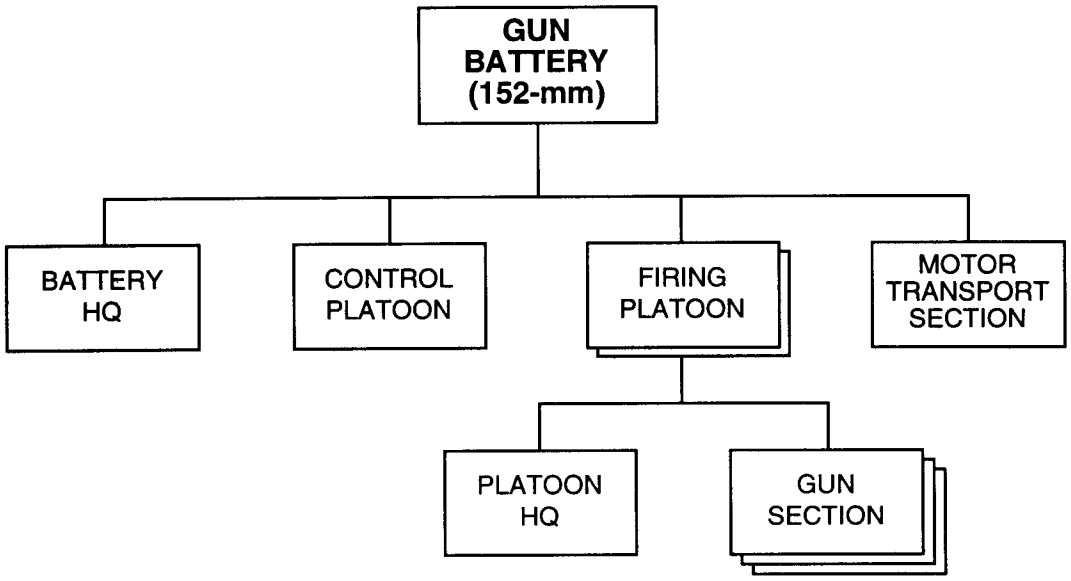
Equipment	Total
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very Low-Power	23
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2A36), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V52 and 1V53 ACRVs are part of the Kapustnik-B automated fire control system.

*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

152-mm Gun Battery (6-Tube), 152-mm Gun Bn (18-Tube)



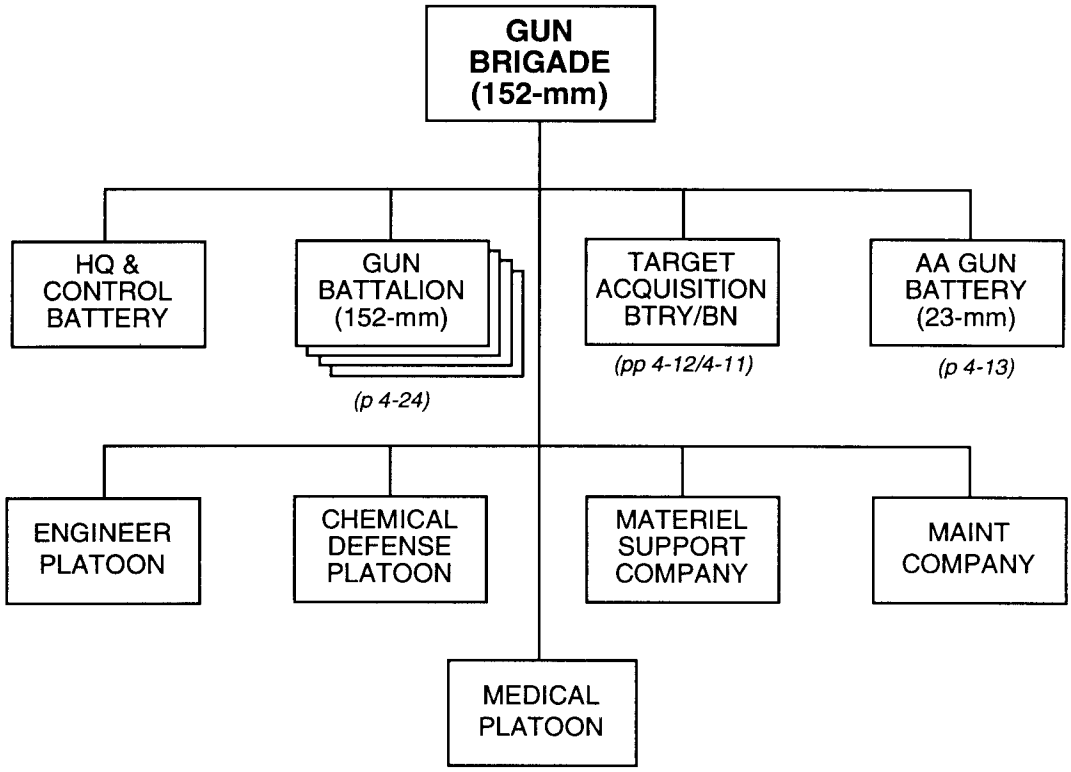
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Field Gun, 2A36	6
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	1
7.62-mm GP MG, PKM	6
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	9
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	7
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

152-mm Gun Brigade, (4 x 24-Tube Battalion), Army or Arty Div



Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		12								12
ACRV, 1V19/1V152 (Bn COP)****		4								4
Armored Recovery Vehicle								1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 ACRV is part of the Kapustnik-B automated fire control system.

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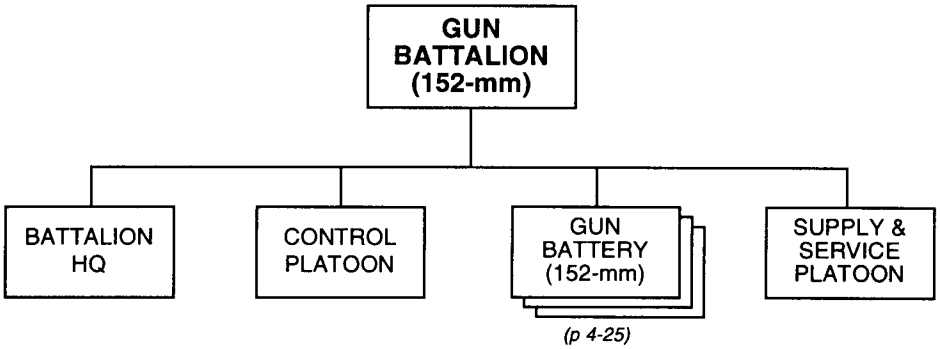
152-mm Gun Brigade (4 x 24-Tube Battalion), Army or Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS										
152-mm Field Gun, 2A36		96								96
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	96								99
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)*		24								24
ACRV, 1V111/1V153 (Bn FDC)*		4								4
Truck, Utility	6	4		1	1		1	1		14
Truck, Light	2	36	2	8	6		1		1	56
Truck, Medium	1	172	4				45	3	2	227
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		8					8			16
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	4	4				2	6		17
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	68					30	3		102
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	16	1						1	19
Trailer, Meteorological**			1							1
Trailer, POL (4,200-L)		8					8			16
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11
RADIOS										
VHF, Manpack, Low-Power	6	56	13	3			1	1	1	81
VHF, Portable, Low-Power	1	116								117
VHF, Vehicle Mount, Medium-Power	5	36	4		4	3				52
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	152	4							157

* The 1V153 ACRV is part of the Kapustnik-B automated fire control system.

** This trailer carries the END TRAY meteorological radar.

152-mm Gun Battalion (24-Tube), 152-mm Gun Bde or 152-mm Arty Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Field Gun, 2A36	24
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V18/1V152 (Btry COP)**	3
ACRV, 1V19/1V152 (Bn COP)**	1
ACRV, 1V110/1V153 (Btry FDC)**	6
ACRV, 1V111/1V153 (Bn FDC)**	1
Mobile Recon Post, PRP-3/4***	1
7.62-mm GP MG, PKM	24
SAM, Shoulder-Fired	24
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Light	9
Truck, Medium	43
Truck, POL (5,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1

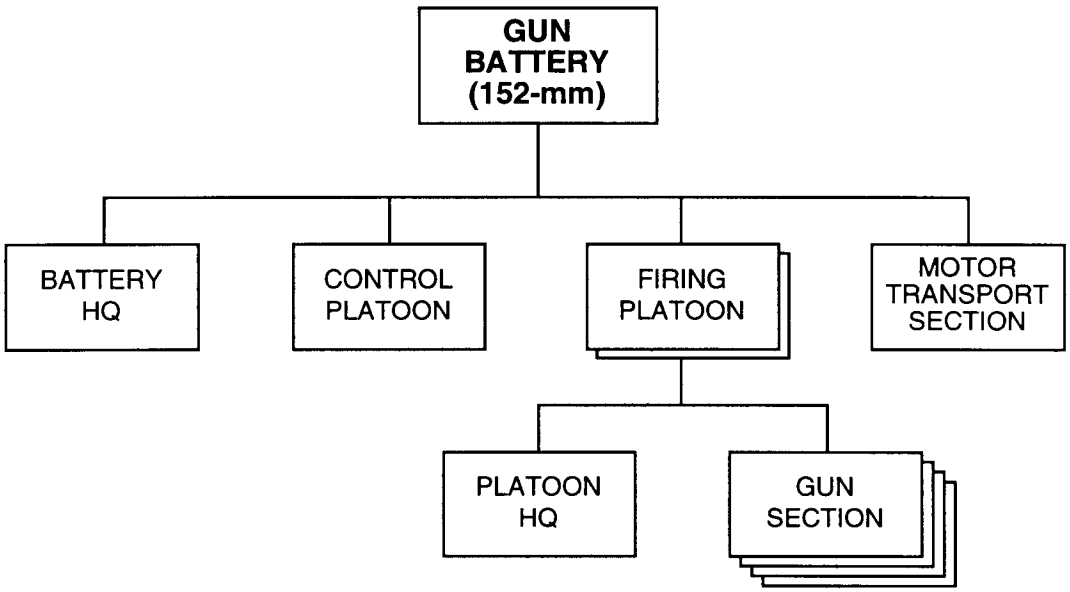
Equipment	Total
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	38
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very Low-Power	29
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2A36), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V52 and 1V53 ACRVs are part of the Kapustnik-B automated fire control system.

*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

152-mm Gun Battery (8-Tube), 152-mm Gun Bn (24-Tube)



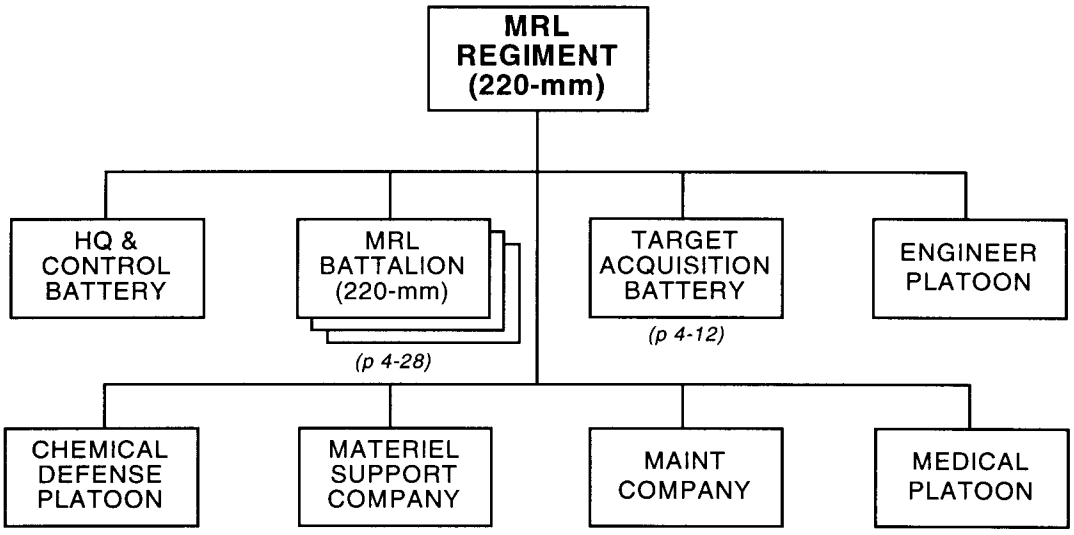
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Field Gun, 2A36	8
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	2
7.62-mm GP MG, PKM	8
SAM, Shoulder-Fired	8
ATGL, RPG-7V	2
Truck, Medium	11
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	12
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	9
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

220-mm Multiple Rocket Launcher Regiment, Army or Corps or Army Group



Principal Items of Equipment	*HQ & Control Btry*	*220-mm MRL Bn (x3)*	*Target Acquisition Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80	1								1
ACV, BTR (R-145BM)	2	3	1						6
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1				3				4
Mobile Recon Post, PRP-3/4*	1	3	1						5
APC, Radar, MT-LB (SNAR-10)**			1						1
APC, Radar, MT-LB (ARK-1)***			1						1
ACRV, 1V18/1V152 (Btry COP)****		9							9
ACRV, 1V19/1V152 (Bn COP)****		3							3
Armored Recovery Vehicle							1		1
WEAPONS									
220-mm MRL, 9P140 (Uragan)		54							54
ATGL, RPG-7V	4	18					4		26
SAM, Shoulder-Fired	3	54							57

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

** This system includes the BIG FRED battlefield surveillance radar.

*** This system includes the RICE BAG countermortar/counterbattery radar.

**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, the 220-mm MRL battalion may use the command and staff vans of the 1K123 automated fire control system.

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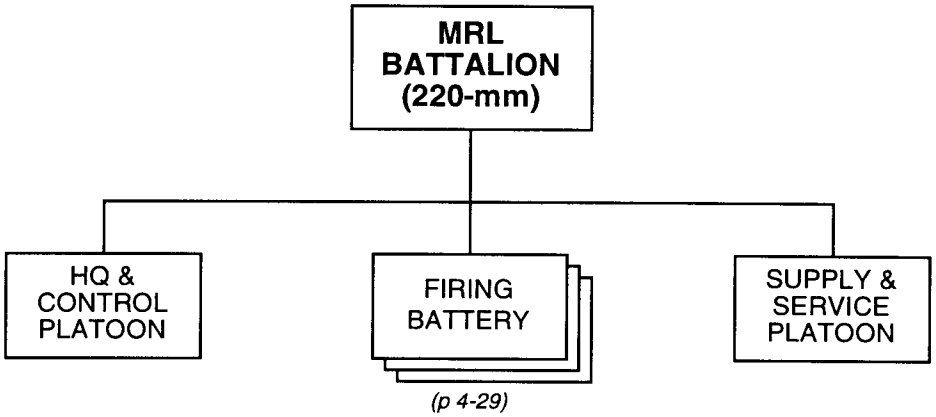
220-mm Multiple Rocket Launcher Regiment, Army or Corps or Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*220-mm MRL Bn (x3)*	*Target Acquisition Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ENGINEER EQUIPMENT									
Route-Clearing Vehicle, BAT/PKT				2					2
Ditching Machine, BTM/MDK				2					2
TRUCKS									
ACRV, 1V110/1V153 (Btry FDC)*		9							9
ACRV, 1V111/1V153 (Bn FDC)*		3							3
Truck, Utility	6	9		1		1	1		18
Truck, Light	2		2	6		1		1	12
Truck, Medium	1	30	4			32	3	2	72
Truck, Crane				1					1
Truck, Crane Shovel				1					1
Truck, Decon, ARS-12U/14					3				3
Truck, Decon, DDA-53/66					1			1	2
Truck, Dump				1					1
Truck, POL (5,000-L)		18				6			24
Truck, Water (2,000-L)					2				2
Van, Hospital								1	1
Van, Maintenance	1	9	4			2	6		22
Van, Signal	2	12							14
Van, Survey			1						1
Ambulance		3						4	7
TRAILERS									
Trailer, Cargo, 1-Axle			1	1					2
Trailer, Cargo, 2-Axle	1	24				20	3		48
Trailer, Generator	2	6	2	1			2		13
Trailer, Kitchen	1	9	1					1	12
Trailer, Meteorological**			1						1
Trailer, POL (4,200-L)		18				6			24
Trailer, Water (900/1,200-L)	1	3	1		2	2		1	10
RADIOS									
VHF, Manpack, Low-Power	6	54	13			1	1	1	76
VHF, Portable, Low-Power	1								1
VHF, Vehicle Mount, Medium-Power	5	18	4	4	3				34
HF, Manpack, Low-Power	1			1	1				3
HF, Vehicle Mount, Medium-Power	5								5
HF/VHF, Vehicle Mount, Medium-Power	3	18							21
HF/VHF, Vehicle Mount, High-Power	1								1
Radio Relay, VHF/UHF	1								1
Warning Receiver	1	3	1						5
MISCELLANEOUS									
Reload Vehicle for 9P140		108							108
Sound-Ranging Set			1						1
Rangefinder, Laser	1	21	2						24
Rangefinder, Laser, Binocular		27							27
Periscopic Aiming Circle	1	18	2						21
Night-Vision Sight (Aiming Circle)	1	18	2						21
GPS Receiver	1	96	4						101

* The 1V153 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, the 220-mm MRL battalion may use the command and staff vans of the 1K123 automated fire control system.

** This trailer carries the END TRAY meteorological radar.

220-mm Multiple Rocket Launcher Battalion, 220-mm MRL Regt or 220-mm MRL Bde or Corps



(p 4-29)

PRINCIPAL ITEMS OF EQUIPMENT

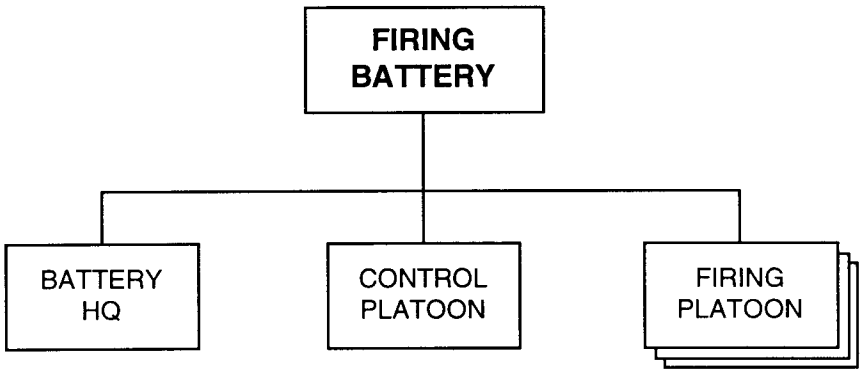
Equipment	Total
220-mm MRL, 9P140 (Uragan)	18
ACV, BTR (R-145BM)	1
ACRV, 1V18/1V152 (Btry COP)*	3
ACRV, 1V19/1V152 (Bn COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	3
ACRV, 1V111/1V153 (Bn FDC)*	1
Mobile Recon Post, PRP-3/4**	1
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Reload Vehicle for 9P140***	36
Truck, Utility	3
Truck, Medium	10
Truck, POL (5,000-Liter)	6
Van, Maintenance	3
Van, Signal	4
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	6
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	18
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, a 220-mm MRL battery may use the command and staff vans of the 1K123 automated fire control system.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** Besides the 6 reload vehicles in each firing battery, there are 18 in the supply and service platoon.

Firing Battery, 220-mm MRL Bn



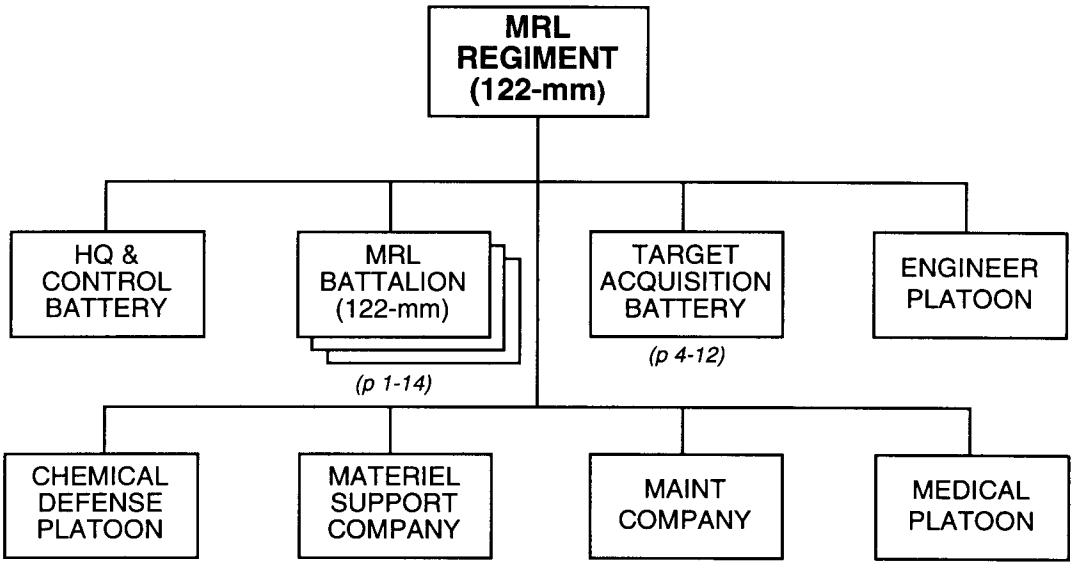
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
220-mm MRL, 9P140 (Uragan)	6
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	1
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Reload Vehicle for 9P140	6
Van, Signal	1
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	2
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, a 220-mm MRL battery may use the command and staff vans of the 1K123 automated fire control system.

122-mm Multiple Rocket Launcher Regiment, Army or Corps



Principal Items of Equipment	*HQ & Control Btry*	*122-mm MRL Bn (x3)*	*Target Acquisition Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80	1								1
ACV, BTR (R-145BM)	2		1						3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1				3				4
Mobile Recon Post, PRP-3/4*	1		1						2
APC, Radar, MT-LB (SNAR-10)**			1						1
APC, Radar, MT-LB (ARK-1)***			1						1
ACRV, 1V18/1V152 (Btry COP)****		9							9
ACRV, 1V19/1V152 (Bn COP)****		3							3
Armored Recovery Vehicle							1		1
WEAPONS									
122-mm MRL, BM-21		54							54
ATGL, RPG-7V	4	18					4		26
SAM, Shoulder-Fired	3	54							57

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

** This system includes the BIG FRED battlefield surveillance radar.

*** This system includes the RICE BAG countermortar/counterbattery radar.

**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, the 220-mm MRL battalion may use the command and staff vans of the 1K123 automated fire control system.

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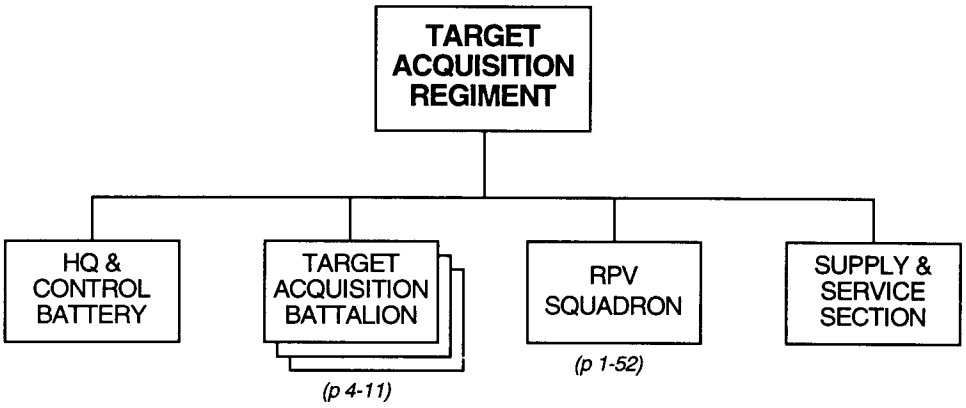
122-mm Multiple Rocket Launcher Regiment, Army or Corps (continued)

Principal Items of Equipment	*HQ & Control Btry*	*122-mm MRL Bn (x3)*	*Target Acquisition Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ENGINEER EQUIPMENT									
Route-Clearing Vehicle, BAT/PKT				2					2
Ditching Machine, BTM/MDK				2					2
TRUCKS									
ACRV, 1V110/1V153 (Btry FDC)*		9							9
ACRV, 1V111/1V153 (Bn FDC)*		3							3
Truck, Utility	6	3		1		1	1		12
Truck, Light	2		2	6		1		1	12
Truck, Medium	1	111	4			32	3	2	153
Truck, Crane				1					1
Truck, Crane Shovel				1					1
Truck, Decon, ARS-12U/14					3				3
Truck, Decon, DDA-53/66					1			1	2
Truck, Dump				1					1
Truck, POL (5,000-L)		9				6			15
Truck, Water (2,000-L)					2				2
Van, Hospital								1	1
Van, Maintenance	1	9	4			2	6		22
Van, Signal	2	12							14
Van, Survey			1						1
Ambulance		3						4	7
TRAILERS									
Trailer, Cargo, 1-Axle			1	1					2
Trailer, Cargo, 2-Axle	1	81				20	3		105
Trailer, Generator	2	6	2	1			2		13
Trailer, Kitchen	1	9	1					1	12
Trailer, Meteorological**			1						1
Trailer, POL (4,200-L)		9				6			15
Trailer, Water (900/1,200-L)	1	3	1		2	2		1	10
RADIOS									
VHF, Manpack, Low-Power	6	54	13			1	1	1	76
VHF, Portable, Low-Power	1								1
VHF, Vehicle Mount, Medium-Power	5	18	4	4	3				34
HF, Manpack, Low-Power	1			1	1				3
HF, Vehicle Mount, Medium-Power	5								5
HF/VHF, Vehicle Mount, Medium-Power	3	6							9
HF/VHF, Vehicle Mount, High-Power	1								1
Radio Relay, VHF/UHF	1								1
Warning Receiver	1	3	1						5
MISCELLANEOUS									
Sound-Ranging Set			1						1
Rangefinder, Laser	1	21	2						24
Rangefinder, Laser, Binocular		27							27
Periscopic Aiming Circle	1	18	2						21
Night-Vision Sight (Aiming Circle)	1	18	2						21
GPS Receiver	1	96	4						101

* The 1V153 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, the 220-mm MRL battalion may use the command and staff vans of the 1K123 automated fire control system.

** This trailer carries the END TRAY meteorological radar.

Target Acquisition Regiment, Army or Army Group



Principal Items of Equipment	*HQ & Control Btry*	*Tgt Acq Bn (x3)*	*RPV Squadron*	*Supply & Svc Section*	*TOTAL*
ARMORED VEHICLES					
APC, BTR-60/70/80	1	3			4
ACV, BTR (R-145BM)	2	15			17
Chem Recon Vehicle, BRDM-2RKh/RKhM	1	3			4
Mobile Recon Post, PRP-3/4*	1	12			13
APC, Radar, MT-LB (SNAR-10)**		9			9
APC, Radar, MT-LB (ARK-1)***		9			9
WEAPONS					
ATGL, RPG-7V	4	12			16
SAM, Shoulder-Fired	3	9	6		18
RPV EQUIPMENT					
RPV Launch Vehicle			4		4
RPV, Shmel-1			8		8
RPV Recovery Vehicle			2		2
Launcher Support Vehicle			4		4
Van, RPV Mission Control			1		1
MISCELLANEOUS EQUIPMENT					
Sound-Ranging Set		9			9
Night-Vision Sight (Aiming Circle)	1	21			22
Periscopic Aiming Circle	1	21			22
GPS Receiver	1	39			40
Rangefinder, Laser	1	21			22

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.

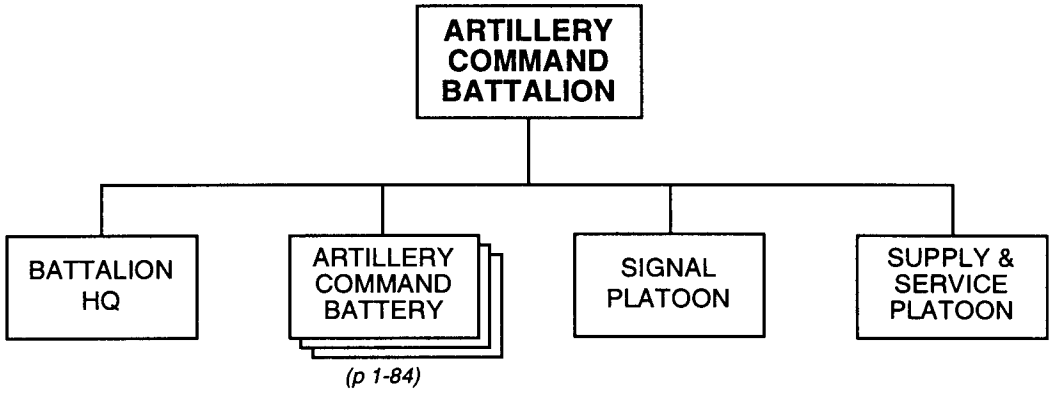
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Target Acquisition Regiment, Army (continued)

Principal Items of Equipment	*HQ & Control Btry*	*Tgt Acq Bn (x3)*	*RPV Squadron*	*Supply & Svc Section*	*TOTAL*
TRUCKS					
Truck, Utility	6	18	4		28
Truck, Light	2	24	2		28
Truck, Medium	1	39	1	1	42
Truck, POL (5,000-L)			1	3	4
Truck, POL (4,000-L)			1		1
Van, Maintenance	1	39	1	3	44
Van, Signal	2	6			8
Van, Survey		9			9
TRAILERS					
Trailer, Cargo, 1-Axle		9			9
Trailer, Cargo, 2-Axle	1	3		1	5
Trailer, Generator	2	24	5	1	32
Trailer, Meteorological Radar, END TRAY*		9			9
Trailer, Kitchen	1	12	1	3	17
Trailer, POL (4,200-L)				3	3
Trailer, Water (900-/1,200-L)	1	12	1	1	15
RADIOS					
HF, Manpack, Low-Power	1	3			4
VHF, Manpack, Low-Power	6	135	13	1	155
VHF, Portable, Low-Power/Very-Low-Power	1	3			4
VHF, Vehicle Mount, Medium-Power	5	51	4		60
HF, Vehicle Mount, Medium-Power	5	15	1		21
HF/VHF, Vehicle Mount, Medium-Power	3	9			12
HF/VHF, Vehicle Mount, High-Power	1	3			4
VHF/UHF, Radio Relay	1	3			4
Warning Receiver	1	12	1		14

* This trailer carries the END TRAY meteorological radar.

Artillery Command Battalion, Army or Corps



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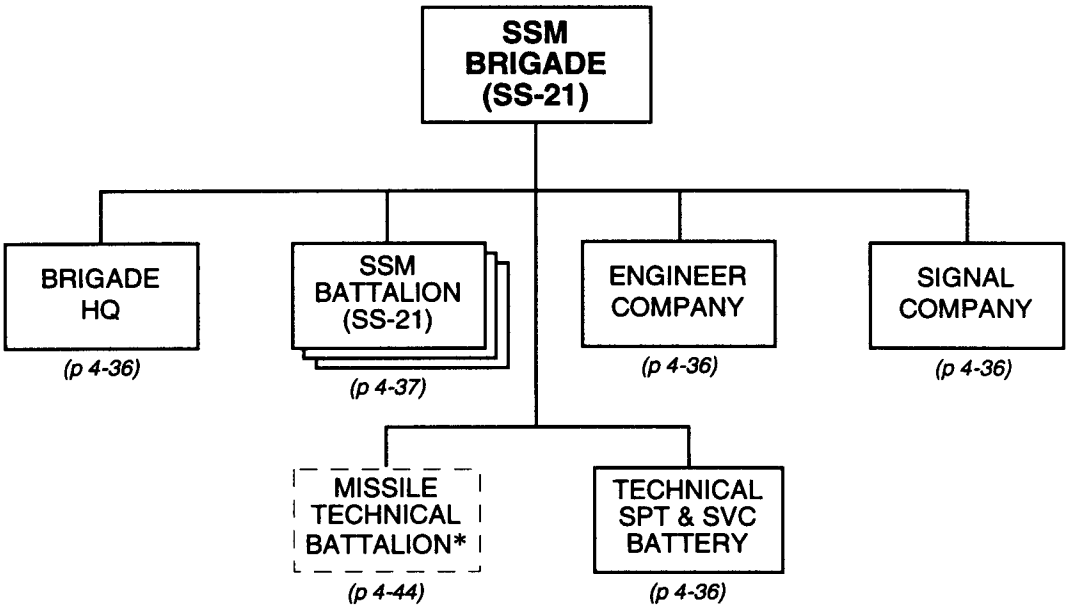
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	1
ACV, BTR (R-145-BM)	8
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1
Mobile Recon Post, PRP-3/4*	4
APC, Radar, MT-LB (SNAR-10)**	3
APC, Radar, MT-LB (ARK-1)***	3
ATRL, RPG-22/26	16
SAM, Shoulder-Fired	3
Truck, Utility	6
Truck, Light	17
Truck, Medium	10
Truck, POL (5,000-Liter)	3
Van, Maintenance	13
Van, Signal	5
Van, Survey	3
Ambulance	1
Trailer, Cargo, 2-Axle	7
Trailer, Generator	9
Trailer, Kitchen	4

Equipment	Total
Trailer, Meteorological****	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	4
Sound-Ranging Set	3
Rangefinder, Laser, 1D8/1D12	7
Periscopic Aiming Circle, PAB2A	7
Night-Vision Sight (Aiming Circle)	7
GPS Receiver	13
Radios:	
VHF, Manpack, Low-Power	24
VHF, Portable, Very-Low-Power	1
VHF, Vehicle Mount, Medium-Power	23
HF, Manpack, Low-Power	7
HF/VHF, Vehicle Mount, Medium-Power	16
HF/VHF, Vehicle Mount, High-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	4

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** This trailer carries the END TRAY meteorological radar.

SSM Brigade (SS-21), Army or Corps



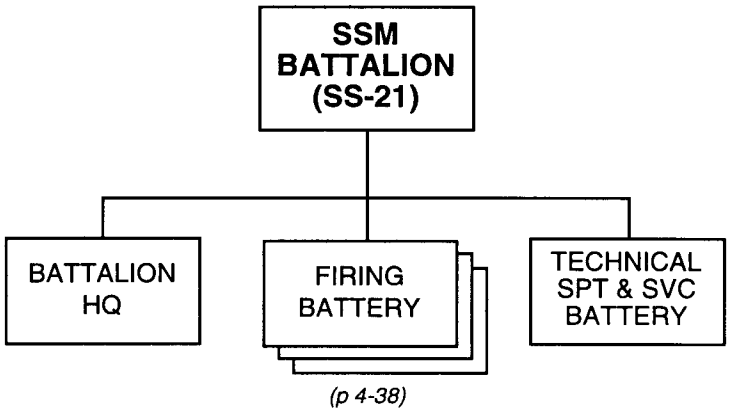
* The missile technical battalion normally is directly subordinate to the army or corps. In some cases, however, it is part of the SSM brigade it supports.

(continued)

SSM Brigade (SS-21), Army or Corps (continued)

Principal Items of Equipment	*Brigade HQ*	*SSM Bn (SS-21) (x3)*	*Signal Co*	*Engineer Co*	*Tech Spt & Svc Btry*	*TOTAL*
ARMORED VEHICLES						
ACV, BTR (R-145BM)	1	12				13
WEAPONS						
SSM, SS-21/SCARAB TEL		18				18
SAM, Shoulder-Fired	3	18			3	24
ENGINEER EQUIPMENT						
Route-Clearing Vehicle, BAT/PKT				6		6
Ditching Machine, PZM/MDK				4		4
TRUCKS						
Truck, Utility	3	3	5	2		13
Truck, Light	1		3			4
Truck, Medium	1	18	1	6	30	56
Truck, Heavy				4		4
Truck, Crane		3			3	6
Truck, Crane Shovel				2		2
Truck, Decon, ARS-12U/14		3			1	4
Truck, POL (5,000-L)		6		3	1	10
Truck, Water (2,000-L)		3			2	5
Van, Command	1					1
Van, Maintenance		6			2	8
Van, Missile Testing		9			3	12
Van, Signal		9	10			19
Van, Survey		3				3
Ambulance		3		1	1	5
TRAILERS						
Trailer, Cargo, 1-Axle	1	3	1		1	6
Trailer, Cargo, 2-Axle		6		2	2	10
Trailer, Generator		18		1	6	25
Trailer, Kitchen		3	1	1	1	6
Trailer, POL (4,200-L)		6		3	1	10
Trailer, Water (1,200-L)		3	1	1	2	7
Trailer, Welding				1		1
RADIOS						
VHF, Manpack, Low-Power	1	33	7	6	18	65
VHF, Portable, Low-Power	1	3			1	5
VHF, Vehicle Mount, Medium-Power	1	36	1	3		41
HF, Manpack, Low-Power	1	9	2	1		13
HF, Vehicle Mount, Medium-Power			2			2
HF, Vehicle Mount, High-Power	1		1			2
HF/VHF, Vehicle Mount, Medium-Power	1	9	8			18
HF/VHF, Vehicle Mount, High-Power	1		2			3
Radio Relay, VHF/UHF		3	2			5
Warning Receiver	1	3	1		1	6
MISCELLANEOUS						
Missile Transloader (TEL Chassis)		18				18
Missile Transporter (Tractor-Trailer)		18			9	27
Motorcycle			3			3

SSM Battalion (SS-21), SSM Bde (SS-21)



(p 4-38)

PRINCIPAL ITEMS OF EQUIPMENT

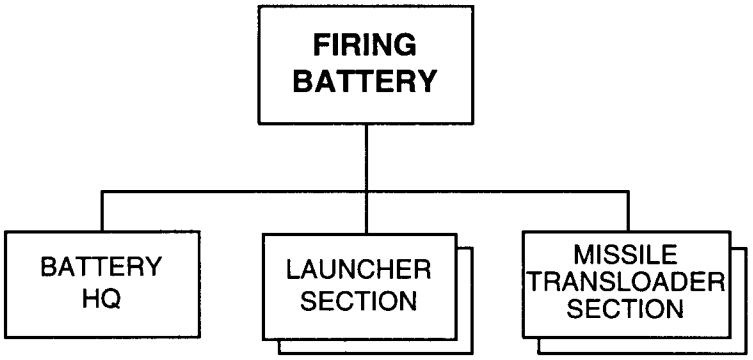
Equipment	Total
ACV, BTR (R-145BM)	4
SSM, SS-21/SCARAB TEL	6
SAM, Shoulder-Fired	6
Missile Transloader (TEL Chassis)*	6
Missile Transporter (Tractor-Trailer)**	6
Truck, Utility	1
Truck, Medium	6
Truck, Crane	1
Truck, Decon, ARS-12U/14	1
Truck, POL (5,000-Liter)	2
Truck, Water (2,000-Liter)	1
Van, Maintenance	2
Van, Missile Testing	3
Van, Signal	3
Van, Survey	1
Ambulance	1

Equipment	Total
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	2
Trailer, Generator	6
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	2
Trailer, Water (1,200-Liter)	1
Radios:	
VHF, Manpack, Low-Power	11
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	12
HF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* Each transloader carries two ready missiles with attached warheads. It includes a crane for transferring missiles to TELs.

** Each transporter semitrailer carries two missiles and four warheads. The SSM brigade has more missile transporters of the same type.

Firing Battery, SSM Bn (SS-21)



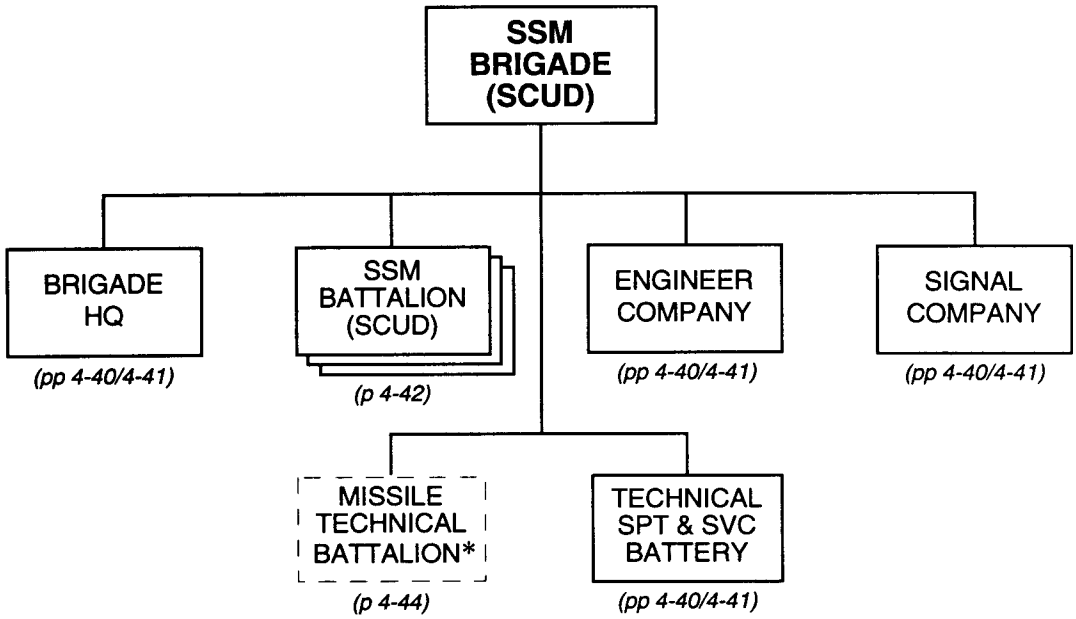
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	1
SSM, SS-21/SCARAB TEL	2
SAM, Shoulder-Fired	2
Missile Transloader (TEL Chassis)*	2
Truck, Medium	2
Van, Missile Testing	1
Van, Signal	1
Trailer, Generator	1

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* Each transloader carries two ready missiles with attached warheads. It includes a crane for transferring missiles to TELs.

SSM Brigade (SCUD), Army or Corps or Army Group



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* The missile technical battalion normally is directly to the army, corps, or army group. In some cases, however, it is part of the SSM brigade it supports.

(continued)

SSM Brigade (SCUD), Army or Corps (3 x 4-TEL Battalion) (continued)

Principal Items of Equipment	*Brigade HQ*	*SSM Bn (SCUD) (x3)*	*Signal Co*	*Engineer Co*	*Tech Spt & Svc Btry*	*TOTAL*
ARMORED VEHICLES						
ACV, BTR (R-145BM)	1	9				10
WEAPONS						
SSM, SS-1/SCUD TEL		12				12
SAM, Shoulder-Fired	3	12			3	18
ENGINEER EQUIPMENT						
Route-Clearing Vehicle, BAT/PKT				6		6
Ditching Machine, PZM/MDK				4		4
TRUCKS						
Truck, Utility	3	3	5	2		13
Truck, Light	1		3			4
Truck, Medium	1	24	1	6	30	62
Truck, Heavy				4		4
Truck, Propellant		6				6
Truck, Oxidizer		3				3
Truck, Decon, ARS-12U/14		3			1	4
Truck, Crane		6			3	9
Truck, Crane Shovel				2		2
Truck, POL (5,000-L)		6		3	1	10
Truck, Water (2,000-L)		3			2	5
Van, Command	1					1
Van, Maintenance		6			2	8
Van, Missile Testing		6			3	9
Van, Signal		6	10			16
Van, Survey		3				3
Ambulance		3		1	1	5
TRAILERS						
Trailer, Cargo, 1-Axle	1	3	1		1	6
Trailer, Cargo, 2-Axle		6		2	2	10
Trailer, Generator		15		1	3	19
Trailer, Kitchen		3	1	1	1	6
Trailer, Meteorological*		3				3
Trailer, POL (4,200-L)		6		3	1	10
Trailer, Water (900-/1,200-L)		3	1	1	2	7
Trailer, Missile Transporter		6			9	15
Trailer, Welding				1		1
RADIOS						
VHF, Manpack, Low-Power	1	33	7	6	18	65
VHF, Portable, Low-Power	1	3			1	5
VHF, Vehicle Mount, Medium-Power	1	36	1	3		41
HF, Manpack, Low-Power	1	9	2	1		13
HF, Vehicle Mount, Medium-Power			2			2
HF, Vehicle Mount, High-Power	1		1			2
HF/VHF, Vehicle Mount, Medium-Power	1	9	8			18
HF/VHF, Vehicle Mount, High-Power	1		2			3
Radio Relay, VHF/UHF		3	2			5
Warning Receiver	1	3	1		1	6
MISCELLANEOUS						
Motorcycle			3			3

* This trailer carries the END TRAY meteorological radar.

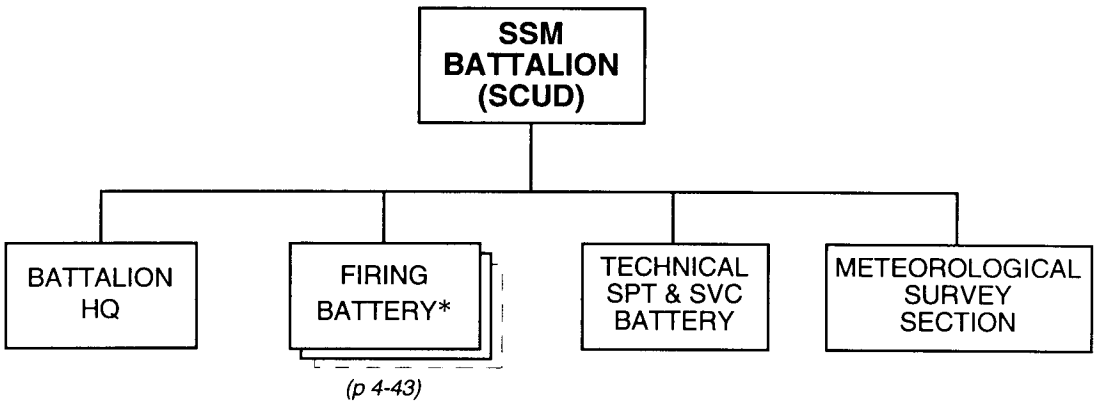
(continued)

SSM Brigade (SCUD), Army or Army Group (3 x 6-TEL Battalion) (continued)

Principal Items of Equipment	*Brigade HQ*	*SSM Bn (SCUD) (x3)*	*Signal Co*	*Engineer Co*	*Tech Spt & Svc Btry*	*TOTAL*
ARMORED VEHICLES						
ACV, BTR (R-145BM)	1	12				13
WEAPONS						
SSM, SS-1/SCUD TEL		18				18
SAM, Shoulder-Fired	3	18			3	24
ENGINEER EQUIPMENT						
Route-Clearing Vehicle, BAT/PKT				6		6
Ditching Machine, PZM/MDK				4		4
TRUCKS						
Truck, Utility	3	3	5	2		13
Truck, Light	1		3			4
Truck, Medium	1	36	1	6	30	74
Truck, Heavy				4		4
Truck, Propellant		9				9
Truck, Oxidizer		3				3
Truck, Decon, ARS-12U/14		3			1	4
Truck, Crane		9			3	12
Truck, Crane Shovel				2		2
Truck, POL (5,000-L)		9		3	1	13
Truck, Water (2,000-L)		3			2	5
Van, Command	1					1
Van, Maintenance		6			2	8
Van, Missile Testing		9			3	12
Van, Signal		9	10			19
Van, Survey		3				3
Ambulance		3		1	1	5
TRAILERS						
Trailer, Cargo, 1-Axle	1	3	1		1	6
Trailer, Cargo, 2-Axle		6		2	2	10
Trailer, Generator		18		1	3	22
Trailer, Kitchen		3	1	1	1	6
Trailer, Meteorological*		3				3
Trailer, POL (4,200-L)		6		3	1	10
Trailer, Water (900-/1,200-L)		3	1	1	2	7
Trailer, Missile Transporter		9			9	18
Trailer, Welding				1		1
RADIOS						
VHF, Manpack, Low-Power	1	33	7	6	18	65
VHF, Portable, Low-Power	1	3			1	5
VHF, Vehicle Mount, Medium-Power	1	36	1	3		41
HF, Manpack, Low-Power	1	9	2	1		13
HF, Vehicle Mount, Medium-Power			2			2
HF, Vehicle Mount, High-Power	1		1			2
HF/VHF, Vehicle Mount, Medium-Power	1	9	8			18
HF/VHF, Vehicle Mount, High-Power	1		2			3
Radio Relay, VHF/UHF		3	2			5
Warning Receiver	1	3	1		1	6
MISCELLANEOUS						
Motorcycle			3			3

* This trailer carries the END TRAY meteorological radar.

SSM Battalion (SCUD), SSM Bde (SCUD)



(p 4-43)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ACV, BTR (R-145BM)	3/4
SSM, SS-1/SCUD TEL	4/6
SAM, Shoulder-Fired	4/6
Trailer, Meteorological**	1
Trailer, Missile Transporter***	2/3
Truck, Utility	1
Truck, Medium	8/12
Truck, Crane	2/3
Truck, Decon, ARS-12U/14	1
Truck, Oxidizer	1
Truck, POL (5,000-Liter)	2/3
Truck, Propellant	2/3
Truck, Water (2,000-Liter)	1
Van, Maintenance	2
Van, Missile Testing	2/3
Van, Signal	2/3
Van, Survey	1

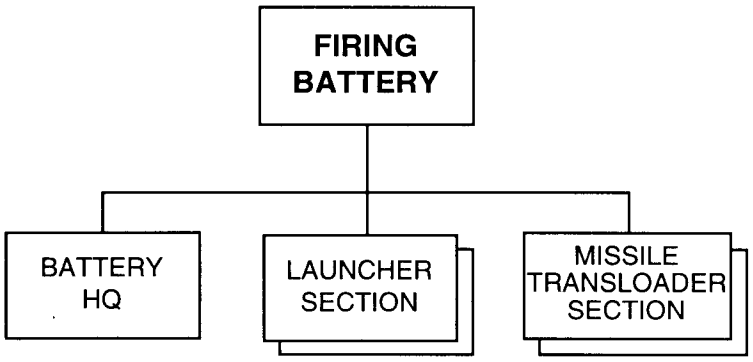
Equipment	Total *
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	2
Trailer, Generator	5/6
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	2/3
Trailer, Water (1,200-Liter)	1
Radios:	
VHF, Manpack, Low-Power	11
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	12
HF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* A SCUD-equipped SSM battalion may have two firing batteries (at army or corps level) or three firing batteries (at army or army group level). Totals listed with multiple numbers (such as 3/4) reflect the numbers of that particular item of equipment in the battalion with two or three batteries, respectively.

** This trailer carries the END TRAY meteorological radar.

*** Each missile transporter carries one reload missile. The SSM brigade has more missile transporters of the same type.

Firing Battery, SSM Bn (SCUD)

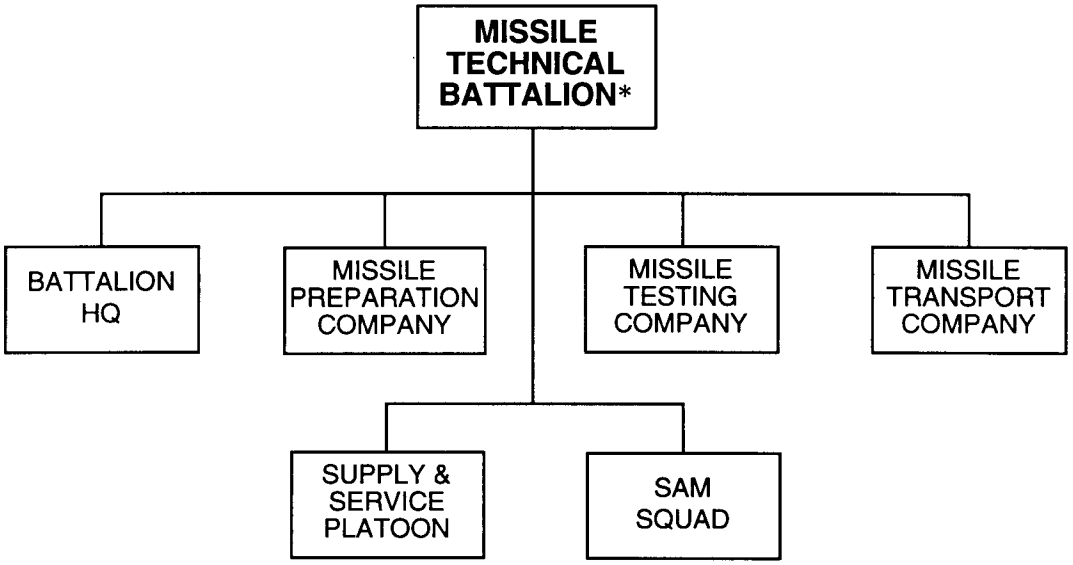


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	1
SSM, SS-1/SCUD TEL	2
SAM, Shoulder-Fired	2
Truck, Medium	4
Van, Missile Testing	1
Van, Signal	1
Trailer, Generator	1

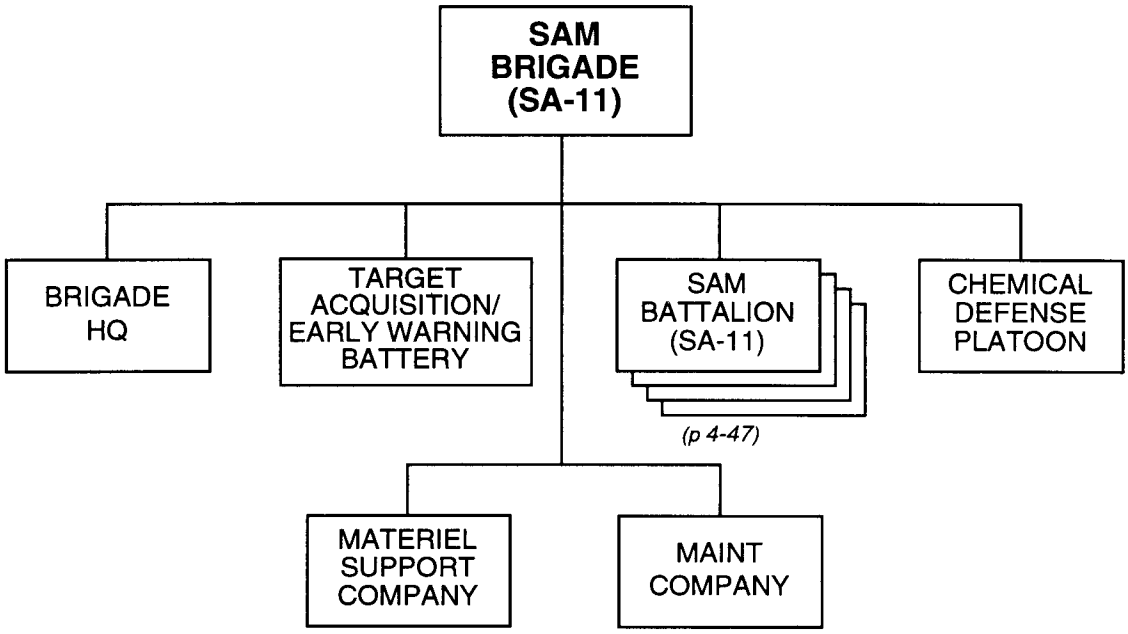
Equipment	Total
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

Missile Technical Battalion, Army or Corps or Army Group or SSM Bde



* The missile preparation company assembles SSM subsystems such as airframe, guidance, propulsion, and possibly warhead. Then the missile testing company checks out electronic and mechanical functions of the assembled components. After testing, the missile transport company loads the missiles and/or warheads onto resupply vehicles for movement to SSM firing units.

SAM Brigade (SA-11), Army or Corps



Principal Items of Equipment	*Brigade HQ*	*Tgt Acq/Early Warning Btry*	*SAM Bn (SA-11) (x4)*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
ARMORED VEHICLES							
IFV, BMP-1/2/3			12				12
Chem Recon Vehicle, BRDM-2RKh/RKhM				3			3
WEAPONS							
SAM, SA-11/GADFLY TELAR*			24				24
SAM, Shoulder-Fired**	3		36				39

* This system includes the FIRE DOME fire control radar.

** The brigade headquarters may have an AA gun section with two 23-mm AA guns, ZU-23, instead of the SAM squad with three shoulder-fired SAMs. Likewise, each of the SAM battalions may have eight ZU-23 instead of nine shoulder-fired SAMs.

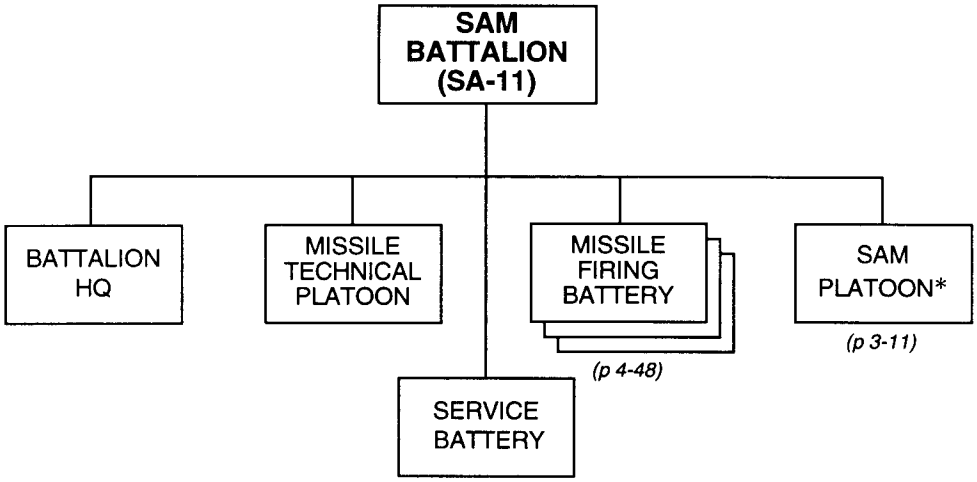
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SAM Brigade (SA-11), Army or Corps (continued)

Principal Items of Equipment	*Brigade HQ*	*Tgt Acq/Early Warning Btry*	*SAM Bn (SA-11) (x4)*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
TRUCKS							
Truck, Utility	1	2	8		3	1	15
Truck, Light	3	1			2	1	7
Truck, Medium			16		25	3	44
Truck, Crane			4			1	5
Truck, Decon, ARS-12U/14				3			3
Truck, Decon, DDA-53/66				1			1
Truck, POL (5,000-L)			8		3		11
Truck, Water (2,000-L)				2	2		4
Van, Computer		1					1
Van, Maintenance		1			2	8	11
Van, Medium	2						2
Van, Missile Testing			12				12
Van, Radar		1					1
Van, Signal	3		4				7
Ambulance	2						2
TRAILERS							
Trailer, Cargo, 1-Axle		1	4				5
Trailer, Cargo, 2-Axle		1	8		5	3	17
Trailer, Generator	2	3	8		2	2	17
Trailer, Kitchen	1	1	4		3	1	10
Trailer, POL (4,200-L)					3		3
Trailer, POL (1,200-L)			4				4
Trailer, Van	4	1	4				9
Trailer, Water (900-/1,200-L)			4	2	1	1	8
RADARS							
Radar, Tgt Acq, SNOW DRIFT or TUBE ARM			4				4
Radar, Tgt Acq, LONG TRACK		2					2
Radar, Height Finding, THIN SKIN		1					1
RADIOS							
VHF, Manpack, Low-Power	1	2	12		1	1	17
VHF, Portable, Low-Power			12				12
VHF, Portable, Very-Low-Power	1		16				17
VHF, Vehicle Mount, Medium-Power	1	3	48	3			55
HF, Manpack, Low-Power		2		1			3
HF, Vehicle Mount, Medium-Power	1						1
HF/VHF, Vehicle Mount, Medium-Power	3						3
HF/VHF, Vehicle Mount, High-Power	1						1
Radio Relay, VHF/UHF	1	1	8				10
Warning Receiver	2		12				14
MISCELLANEOUS							
Command Vehicle (TELAR Chassis)			4				4
Tgt Acq Radar Vehicle (TELAR Chassis)			4				4
SA-11 MissileTransloader (TELAR Chassis)*			12				12
SA-11 MissileTransporter (Heavy Truck)			12				12

* This system is a combination loader and launcher.

SAM Battalion (SA-11), SAM Bde (SA-11)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Command Vehicle (TELAR Chassis)	1
SA-11/GADFLY TELAR**	6
Target Acquisition Radar Vehicle (TELAR Chassis)	1
SA-11 Missile Transloader (TELAR Chassis)***	3
SA-11 Missile Transporter (Heavy Truck)	3
SAM, Shoulder-Fired	9
IFV, BMP-1/2/3	3
Truck, Utility	2
Truck, Medium	4
Truck, Crane	1
Truck, POL (5,000-Liter)	2
Van, Maintenance	2
Van, Missile Testing	3
Van, Signal	1

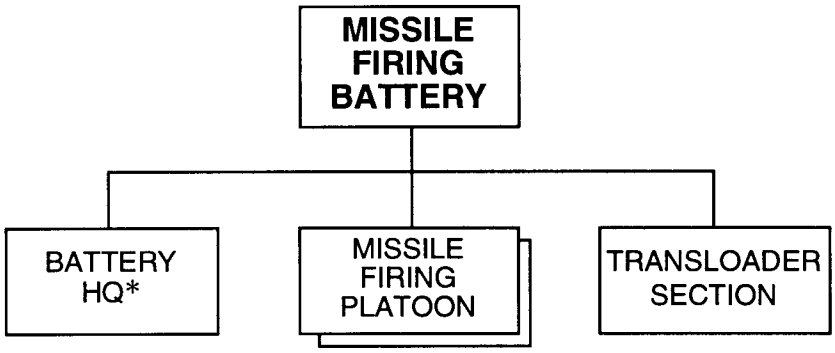
Equipment	Total
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	2
Trailer, Generator	2
Trailer, Kitchen	1
Trailer, POL (1,200-Liter)	1
Trailer, Van	1
Trailer, Water (1,200-Liter)	1
Radar, Target Acquisition, SNOW DRIFT or TUBE ARM	1
Radios:	
VHF, Manpack, Low-Power	3
VHF, Portable, Low-Power	3
VHF, Portable, Very-Low-Power	4
VHF, Vehicle Mount, Medium Power	12
Radio Relay, VHF/UHF	2
Warning Receiver	3

* Instead of the platoon of shoulder-fired SAMs, some battalions may have a 23-mm AA gun battery (p 4-13). The battalion commander may retain the entire SAM platoon/AA gun battery under his own control, or he may allocate its SAM squads/AA gun sections to individual SA-11 missile firing batteries.

** This system includes the FIRE DOME fire control radar.

*** This system is a combination loader and launcher. It has the same four-rail launcher as the TELAR, but has no onboard fire control radar.

Missile Firing Battery, SAM Bn (SA-11)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, SA-11/GADFLY TELAR**	2
SA-11 Missile Transloader (TELAR Chassis)***	1

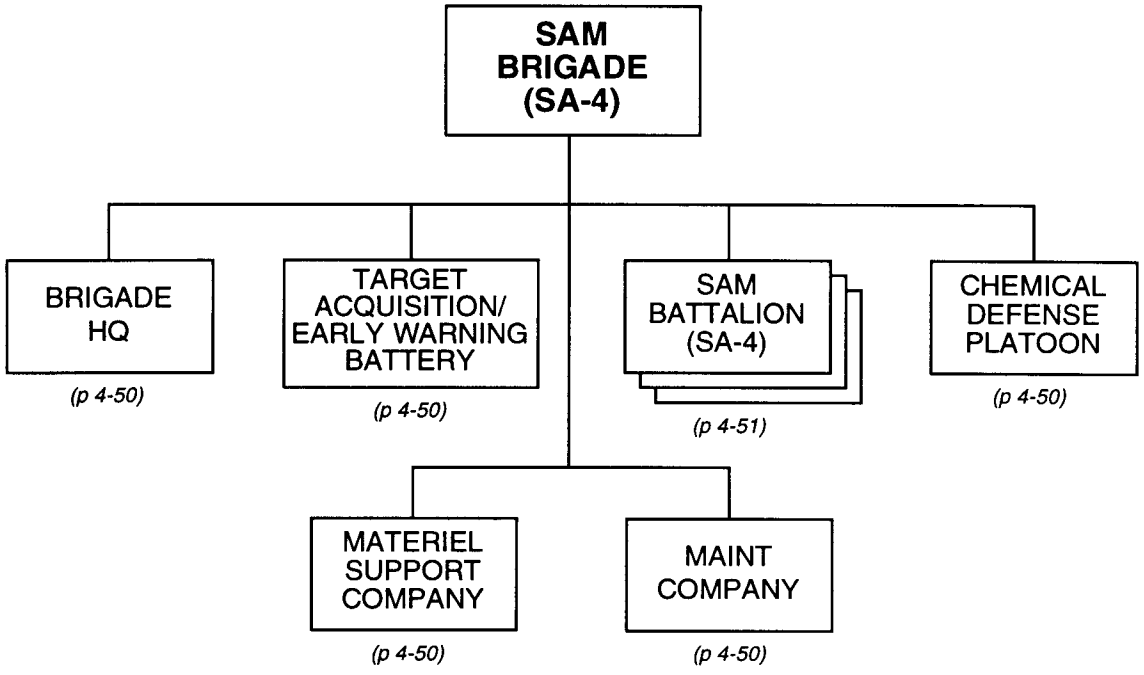
Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	3
Warning Receiver	1

* The battery commander controls the battery from one of the TELARs.

** This system includes the FIRE DOME fire control radar.

*** This system is a combination loader and launcher. This vehicle has the same four-rail launcher as the TELAR, but has no onboard fire control radar. It carries four missiles on launch rails, ready to fire, and it has four additional missiles for reloading its own launcher or for reloading a TELAR.

SAM Brigade (SA-4),
Army or Corps or Army Group or Air Defense Div _____



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* The SA-11 is replacing the SA-4 in army-level SAM brigades, but under a different organization (see p 4-45). The SA-12a/GLADIATOR and the SA-12b/GIANT are replacing the SA-4 in army group-level SAM units, but under an organization different from that of the SA-4 or the SA-11 (see p 5-47).

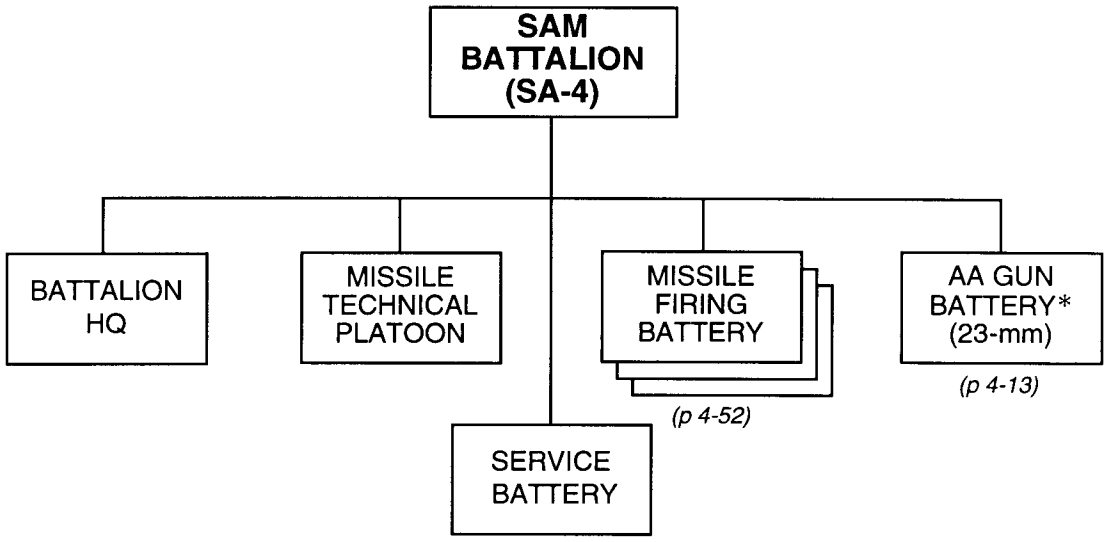
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SAM Brigade (SA-4), Army or Corps or Army Group (continued)

Principal Items of Equipment	*Brigade HQ*	*Tgt Acq/Early Warning Btry*	*SAM Bn (SA-4) (x3)*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
ARMORED VEHICLES							
ACV, BTR-60 (PU-12)	1		12				13
Fire Control Radar Vehicle (TEL Chassis)			9				9
Tgt Acq Radar Vehicle		2	3				5
Chem Recon Vehicle, BRDM-2RKh/RKhM				3			3
WEAPONS							
SAM, SA-4/GANEF TEL			27				27
SAM, Shoulder-Fired*	3						3
23-mm AA Gun, ZU-23			24				24
TRUCKS							
Truck, Utility	1	2	9		3	1	16
Truck, Light	3	1	24		2	1	31
Truck, Medium			12		25	3	40
Truck, Crane			3			1	4
Truck, Decon, ARS-12U/14				3			3
Truck, Decon, DDA-53/66				1			1
Truck, POL (5,000-L)			9		3		12
Truck, Water (2,000-L)				2	2		4
Van, Command			9				9
Van, Computer		1					1
Van, Maintenance		1	6		2	8	17
Van, Medium	2						2
Van, Radar		1					1
Van, Signal	3		3				6
Ambulance	2						2
TRAILERS							
Trailer, Cargo, 1-Axle		1	3				4
Trailer, Cargo, 2-Axle		1	6		5	3	15
Trailer, Generator	2	3	6		2	2	15
Trailer, Kitchen	1	1	3		3	1	9
Trailer, POL (4,200-L)			9		3		12
Trailer, Van	4	1	12				17
Trailer, Water (900-/1,200-L)			3	2	1	1	7
RADARS							
Radar, Tgt Acq, LONG TRACK		2	3				5
Radar, Fire Control, PAT HAND			9				9
Radar, Height Finding, THIN SKIN		1					1
RADIOS							
VHF, Manpack, Low-Power	1	2	27		1	1	32
VHF, Portable, Low-Power			9				9
VHF, Portable, Very-Low-Power	1						1
VHF, Vehicle Mount, Medium-Power	1	3		3			7
HF, Manpack, Low-Power		2		1			3
HF, Vehicle Mount, Medium-Power	1						1
HF/VHF, Vehicle Mount, Medium-Power	3						3
HF/VHF, Vehicle Mount, High-Power	1						1
Radio Relay, VHF/UHF	1	1	3				5
Warning Receiver	2		12				14
MISCELLANEOUS							
SA-4 MissileTransloader (Medium Truck)			27				27
SA-4 MissileTransporter (Tractor-Trailer)			9				9

* The brigade headquarters may have an AA gun section with two 23-mm AA guns, ZU-23, instead of the SAM squad with three shoulder-fired SAMs.

SAM Battalion (SA-4), SAM Bde (SA-4)



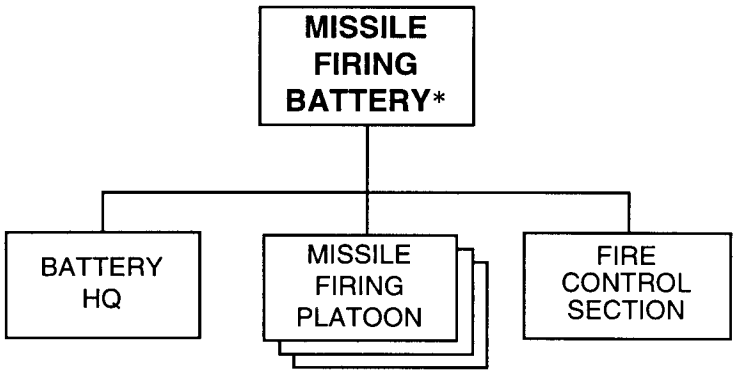
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR-60 (PU-12)	4
SAM, SA-4/GANEF TEL	9
Fire Control Radar Vehicle (TEL Chassis)	3
Target Acquisition Radar Vehicle	1
SA-4 Missile Transporter (Tractor-Trailer)	3
SA-4 Missile Transloader (Medium Truck)	9
23-mm AA Gun, ZU-23	8
Truck, Utility	3
Truck, Light	8
Truck, Medium	4
Truck, Crane	1
Truck, POL (5,000-Liter)	3
Van, Command	3
Van, Maintenance	2

Equipment	Total
Van, Signal	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	2
Trailer, Generator	2
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	3
Trailer, Van	4
Trailer, Water(1,200-Liter)	1
Radars:	
Target Acquisition, LONG TRACK	1
Fire Control, PAT HAND	3
Radios:	
VHF, Manpack, Low-Power	9
VHF, Portable, Low-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	4

* If individual missile firing batteries have an AA gun section of two 23-mm AA guns, ZU-23, the battalion may also have one AA gun section, instead of an entire AA gun battery.

Missile Firing Battery, SAM Bn (SA-4)

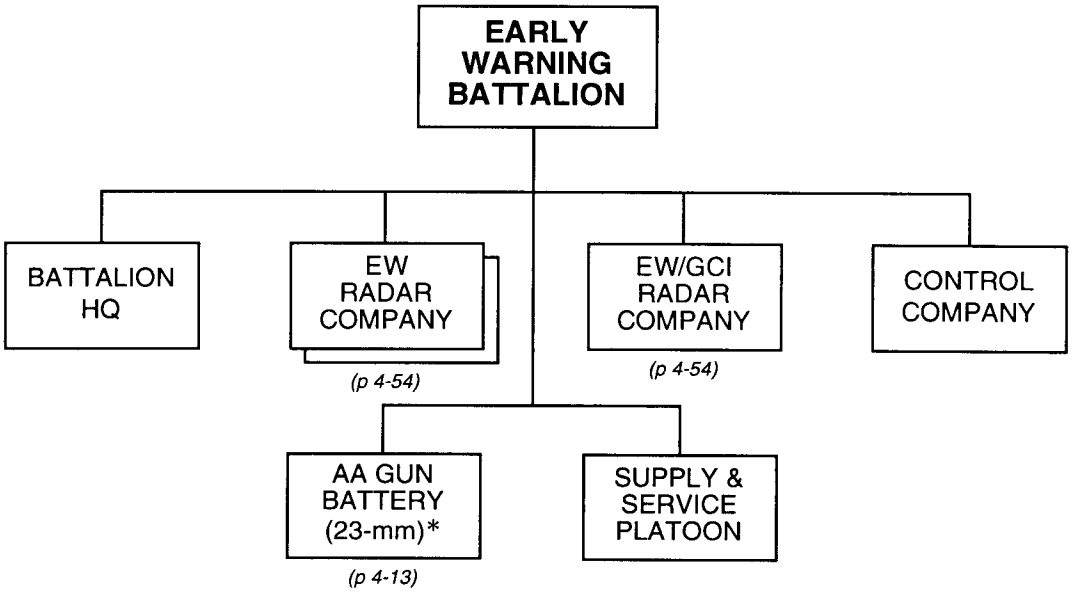


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR-60 (PU-12)	1
SAM, SA-4/GANEF TEL	3
SA-4 Missile Transloader (Medium Truck)	3
Fire Control Radar Vehicle (TEL Chassis)	1
Van, Command	1
Trailer, Van	1
Radar, Fire Control, PAT HAND	1
Radios:	
VHF, Manpack, Low-Power	1
Warning Receiver	1

* Some batteries may have an AA gun section with two 23-mm AA guns, ZU-23. In that case, there would be no more than one AA gun section (rather than an entire AA gun battery) at battalion level.

Early Warning Battalion, Army or Early Warning Regt/Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radars:	
Aerial Surveillance/Target Acquisition, LONG TRACK	4
EW/GCI, BAR LOCK or TIN SHIELD	2
Height-Finding, SIDE NET or ODD PAIR	2 **
Height-Finding, THIN SKIN	4
Target Acquisition, FLAT FACE	4
Target Acquisition, SPOON REST	4
Target Acquisition, SQUAT EYE	4
Van, Automated Radar Control System	4
23-mm AA Gun, ZU-23*	8

* Instead of an AA gun battery, some early warning battalions may have a platoon of shoulder-fired SAMs (see p 3-11).

** Units equipped with 3D radars, such as TIN SHIELD or modernized BAR LOCK, do not require an accompanying height-finding radar.

Early Warning Radar Company, Early Warning Bn

EARLY WARNING RADAR COMPANY

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radars:	
Aerial Surveillance/Target Acquisition, LONG TRACK	2
Target Acquisition, FLAT FACE	2
Target Acquisition, SPOON REST	2
Target Acquisition, SQUAT EYE	2
Height-Finding, THIN SKIN	2

Early Warning/Ground-Controlled Intercept Company, Early Warning Bn

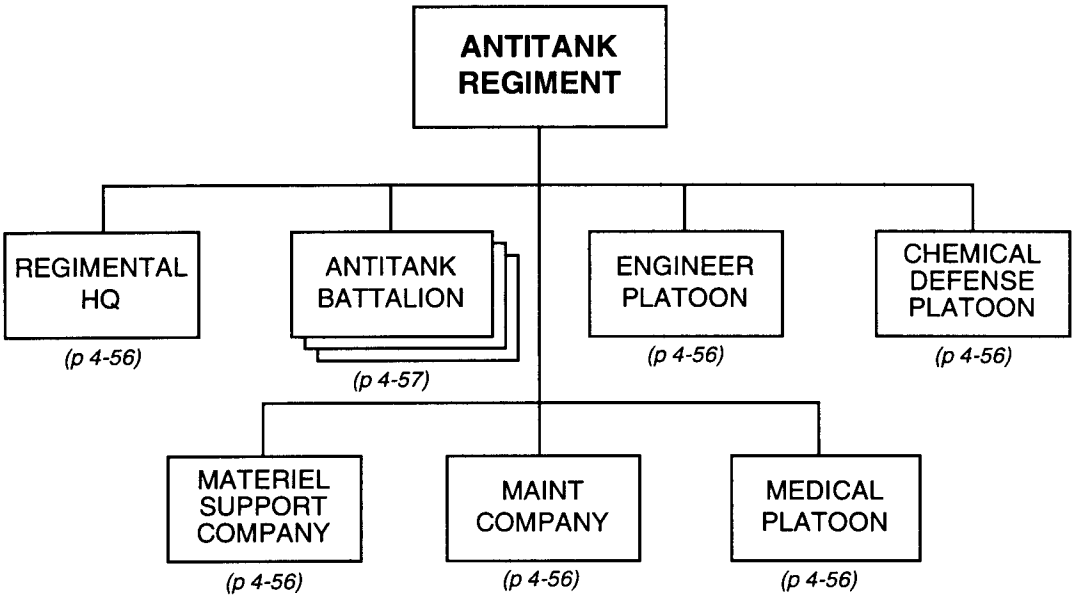
EW/GCI RADAR COMPANY

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radars:	
EW/GCI, BAR LOCK or TIN SHIELD	2
Height-Finding, SIDE NET or ODD PAIR	2 *

* Companies equipped with 3D radars, such as TIN SHIELD or modernized BAR LOCK, do not require an accompanying height-finding radar.

Antitank Regiment, Mechanized Army



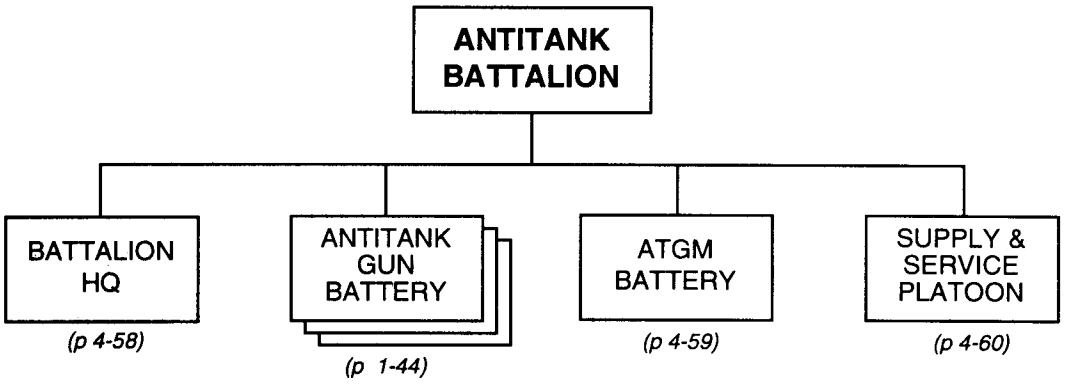
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Antitank Regiment, Mechanized Army (continued)

Principal Items of Equipment	*Regimental HQ*	*Antitank Bn (x3)*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES								
ACV, MT-LBu	1	15						16
Prime Mover, MT-LBT		63						63
Chemical Recon Vehicle, BRDM-2RKh/RKhM				3				3
Mobile Recon Post, PRP-3/4*	1	3						4
Armored Recovery Vehicle						1		1
WEAPONS								
125/100-mm AT Gun, 2A45/MT-12		54						54
ATGM Vehicle, 9P149 w/ AT-6/SPIRAL		27						27
ATGL, RPG-7V		27				4		31
ENGINEER EQUIPMENT								
Route-Clearing Vehicle, BAT/PKT			2					2
Ditching Machine, BTM/MDK			2					2
TRUCKS								
Truck, Utility	2	9	1		1	1		14
Truck, Light		12	6		1		1	20
Truck, Medium		39			30	3	2	74
Truck, Crane Shovel			2					2
Truck, Decon, ARS-12U/14				3				3
Truck, Decon, DDA-53/66				1			1	2
Truck, Dump			1					1
Truck, POL (5,000-L)		9			6			15
Truck, Water (2,000-L)				2				2
Van, Hospital							1	1
Van, Maintenance		6			2	6		14
Van, Signal		6						6
Ambulance		3					4	7
TRAILERS								
Trailer, Cargo, 1-Axle			1					1
Trailer, Cargo, 2-Axle		33			20	3		56
Trailer, Generator		3	1			2		6
Trailer, Kitchen		3					1	4
Trailer, POL (4,200-L)		9			6			15
Trailer, POL (1,200-L)		6						6
Trailer, Water (900/1,200-L)		3		2	2		1	8
RADARS								
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		12						12
RADIOS								
VHF, Manpack, Low-Power	1	33			1	1	1	37
VHF, Vehicle Mount, Medium-Power	2	108	4	3				117
HF, Manpack, Low-Power			1	1				2
HF, Vehicle Mount, Medium-Power	1	3						4
HF/VHF, Vehicle Mount, Medium-Power	2	9						11
Radio Relay, VHF/UHF	1	3						4
Warning Receiver	1	3						4
MISCELLANEOUS								
Rangefinder, Laser		12						12

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

Antitank Battalion,
AT Regt, Mechanized Army, or AT Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM Vehicle, 9P149 w/ AT-6/SPIRAL	9
125/100-mm Antitank Gun, 2A45M/MT-12	18
ATGL, RPG-7V	9
ACV, MT-LBu	5
Prime Mover, MT-LBT	21
Mobile Recon Post, PRP-3/4*	1
Truck, Utility	3
Truck, Light	4
Truck, Medium	13
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	11
Trailer, Generator	1
Trailer, Kitchen	1

Equipment	Total
Trailer, POL (4,200-Liter)	3
Trailer, POL (1,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	4
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	4
Radios:	
VHF, Manpack, Low-Power	11
VHF, Vehicle Mount, Medium-Power	36
HF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

Battalion Headquarters,
AT Bn, AT Regt or AT Bde

BATTALION HEADQUARTERS

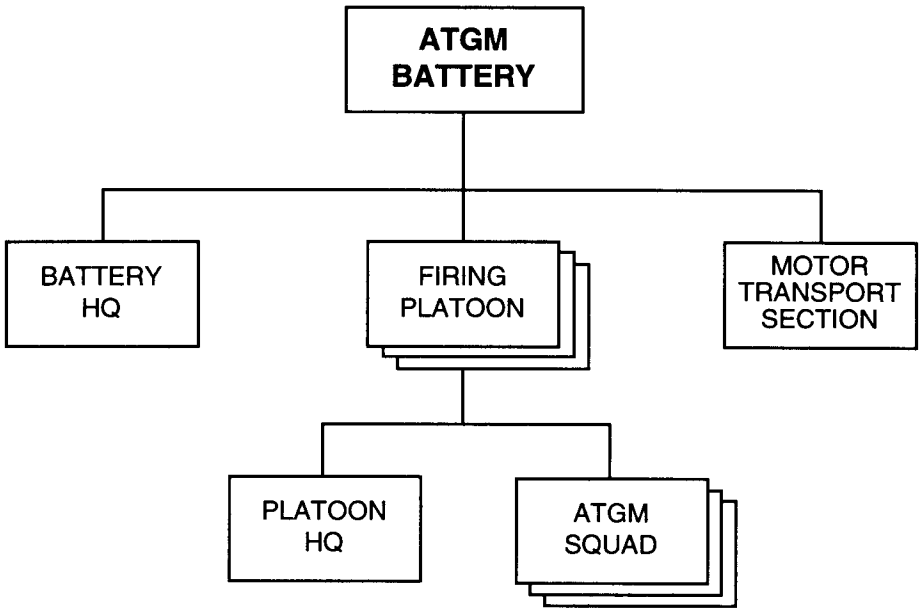
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, MT-LBu	1
Mobile Recon Post, PRP-3/4*	1
Truck, Utility	2

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	2
HF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	2
Radio Relay, VHF/UHF	1
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

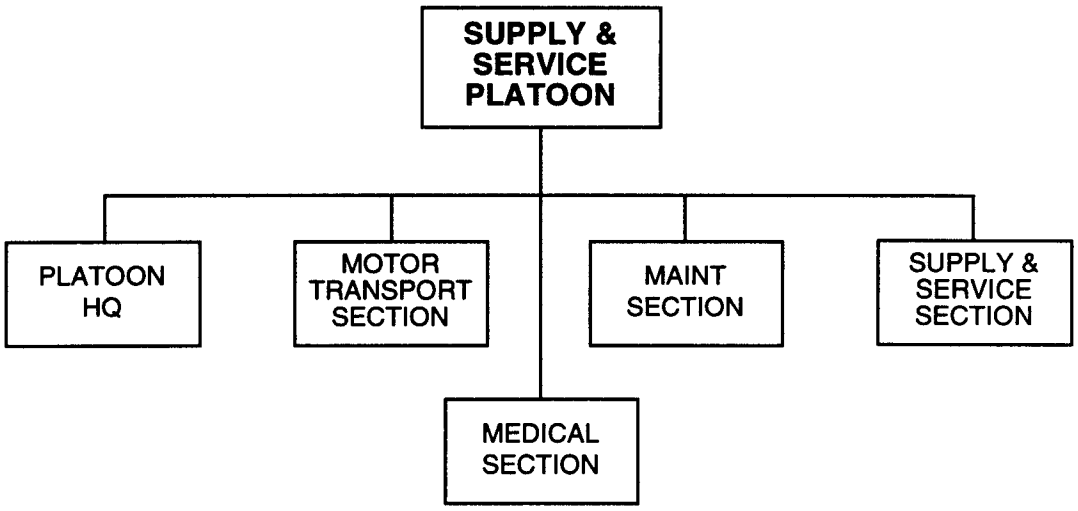
ATGM Battery, AT Bn, AT Regt or AT Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM Vehicle, 9P149 w/ AT-6/SPIRAL	9
ATGL, RPG-7V	9
ACV, MT-LBu	4
Truck, Medium	3
Rangefinder, Laser, 1D8/1D12	1
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	13

Supply and Service Platoon, AT Bn, AT Regt or AT Bde



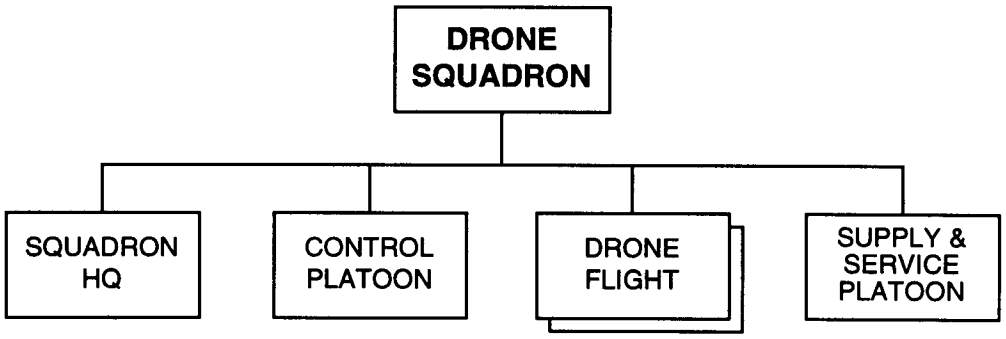
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Utility	1
Truck, Light	4
Truck, Medium	7
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1

Equipment	Total
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	3/2 *
Trailer, POL (1,200-Liter)	2/1 *
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	1

* Totals listed with multiple numbers (such as 3/2) reflect the numbers of that particular piece of equipment in the antitank battalion at army and army group levels or at corps level, respectively.

Drone Squadron, Army or Corps

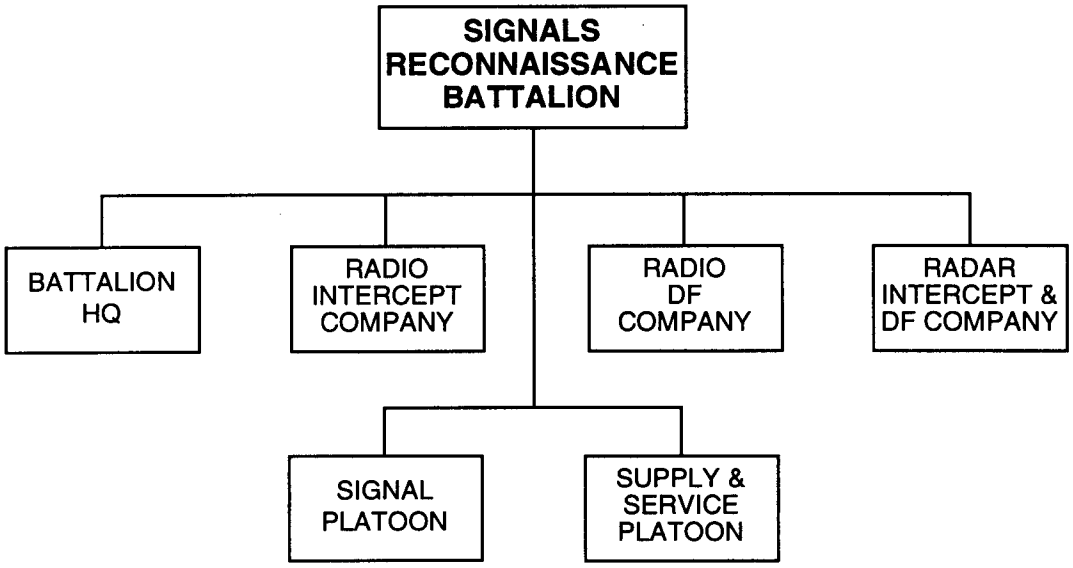


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Drone Launch Vehicle	4
Drone, DR-3	12
Drone Recovery Vehicle	2
Drone Transloader Vehicle	4
Mission Control and Support Vehicle	6
SAM, Shoulder-Fired	6
Truck, Utility	4
Truck, Medium	1
Truck, Light	3
Truck, POL (5,000-Liter)	1
Truck, POL (4,000-Liter)	1
Van, Maintenance	1

Equipment	Total
Trailer, Generator	6
Trailer, Kitchen	1
Trailer, POL (1,200-Liter)	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	13
VHF, Vehicle Mount, Medium-Power	5
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

Signals Reconnaissance Battalion, Army or Corps or Army Group or Signals Recon Regt



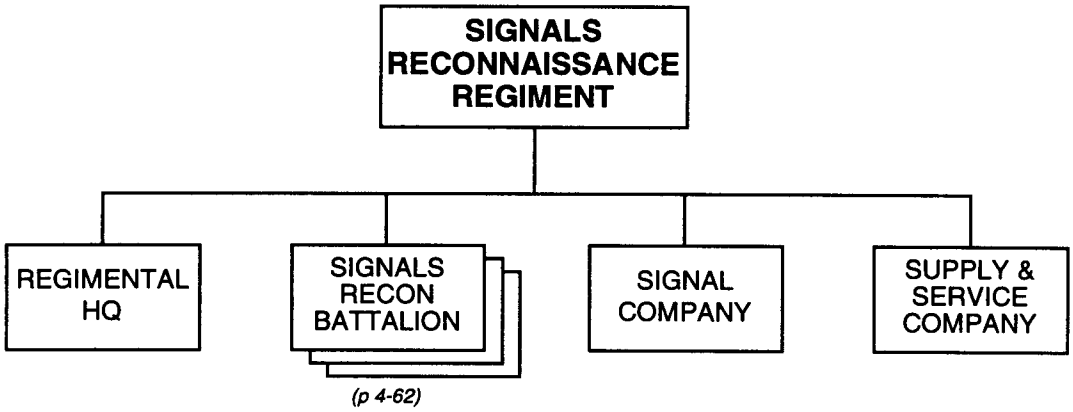
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	1
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1
SAM, Shoulder-Fired	3
Radio Intercept System*	12
Radio Direction Finder*	9
Radar Intercept/Direction Finder	9
Truck, Utility	5
Truck, Light	7
Truck, Medium	1
Truck, POL (5,000-Liter)	2
Van, Command	3
Van, Maintenance	4
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	1

Equipment	Total
Trailer, Generator	6
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	4
Radios:	
VHF, Manpack, Low-Power	6
VHF, Vehicle Mount, Medium-Power	32
HF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
HF/VHF, Vehicle Mount, High-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* Signals reconnaissance battalions at army or corps levels normally have a higher proportion of VHF intercept and DF systems in relation to HF systems. The proportion of HF systems is higher at the army group level.

Signals Reconnaissance Regiment, Army or Army Group



(p 4-62)

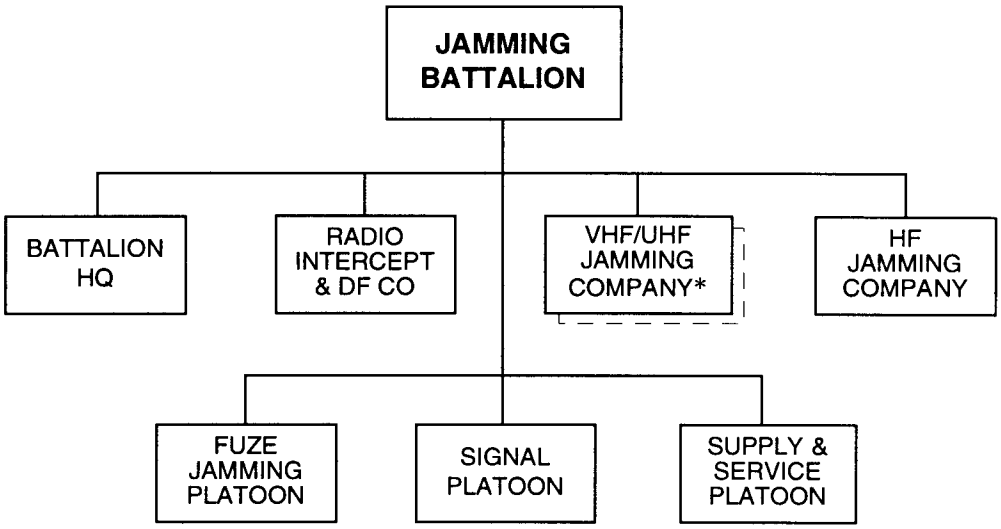
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	13
Chemical Recon Vehicle, BRDM-2RKh/RKhM	4
SAM, Shoulder-Fired	12
Radio Intercept System*	36
Radio Direction Finder*	27
Radar Intercept/Direction Finder	27
Truck, Utility	28
Truck, Light	26
Truck, Medium	14
Truck, POL (5,000-Liter)	8
Truck, Water (2,000-Liter)	1
Van, Command	9
Van, Maintenance	17
Van, Signal	13
Ambulance	4
Trailer, Cargo, 2-Axle	9

Equipment	Total
Trailer, Generator	23
Trailer, Kitchen	16
Trailer, POL (4,200-Liter)	8
Trailer, Water (900-Liter)	16
Radios:	
VHF, Manpack, Low-Power	33
VHF, Vehicle Mount, Medium-Power	82
HF, Manpack, Low-Power	7
HF, Vehicle Mount, Medium-Power	13
HF/VHF, Vehicle Mount, Medium-Power	12
HF/VHF, Vehicle Mount, High-Power	7
Radio Relay, VHF/UHF	6
Warning Receiver	7

* Signals reconnaissance battalions at the army level normally have a higher proportion of VHF intercept and DF systems in relation to HF systems. The proportion of HF systems is higher at the army group level.

Jamming Battalion, Army or Corps or Army Group or Jamming Regt

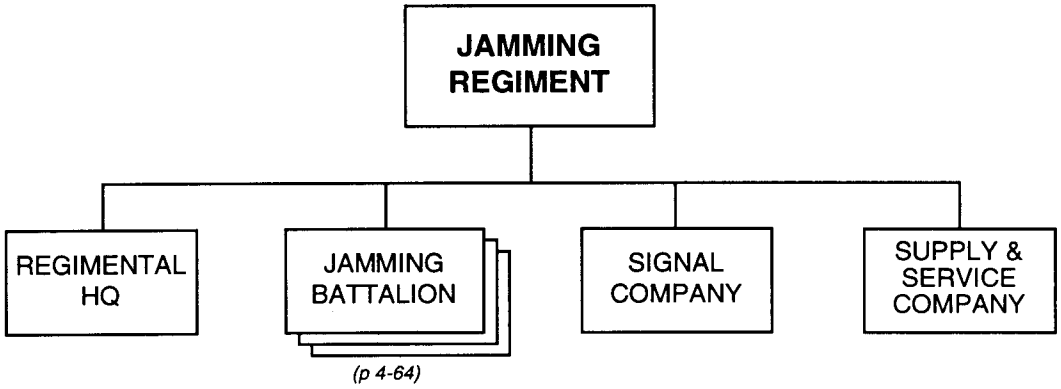


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
ACV, BTR (R-145BM)	1
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1
SAM, Shoulder-Fired	3
Radio Intercept/Direction Finder, VHF	3
Radio Intercept/Direction Finder, HF	3
Communications Jammer, VHF	9/18
Communications Jammer, UHF	3/6
Communications Jammer, HF	9
Proximity Fuze Jammer, SPR-1/2	9
Truck, Utility	5
Truck, Light	7/9
Truck, Medium	1
Truck, POL (5,000-Liter)	2
Van, Command	4/5
Van, Maintenance	4/5
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	1
Trailer, Generator	6/7
Trailer, Kitchen	4/5
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	4/5
Radios:	
VHF, Manpack, Low-Power	6
VHF, Vehicle Mount, Medium-Power	38/50
HF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
HF/VHF, Vehicle Mount, High-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	1

* At corps level, the jamming battalion may have only one VHF/UHF jamming company. At army or army group levels, it is more likely to have two such companies. Totals listed with multiple numbers (such as 9/18) reflect the numbers of that particular piece of equipment in a battalion with one or two VHF/UHF jamming companies, respectively.

Jamming Regiment, Army or Army Group

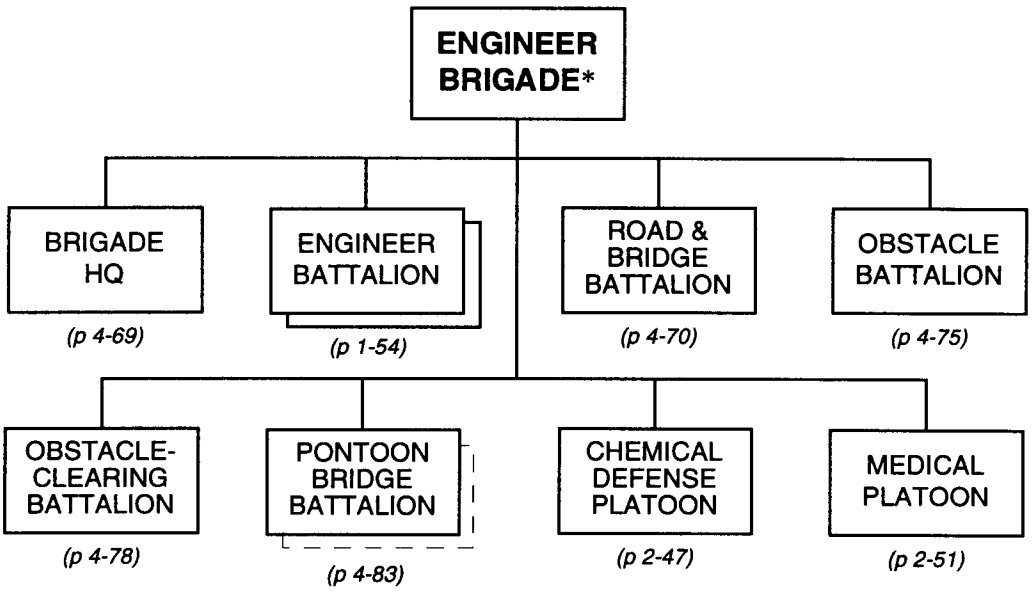


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BTR (R-145BM)	13
Chemical Recon Vehicle, BRDM-2RKh/RKhM	4
SAM, Shoulder-Fired	12
Radio Intercept/Direction Finder, VHF	9
Radio Intercept/Direction Finder, HF	9
Communications Jammer, VHF	54
Communications Jammer, UHF	18
Communications Jammer, HF	27
Proximity Fuze Jammer, SPR-1/2	27
Truck, Utility	28
Truck, Light	23
Truck, Medium	14
Truck, POL (5,000-Liter)	8
Truck, Water (2,000-Liter)	1
Van, Command	15
Van, Maintenance	20
Van, Signal	13

Equipment	Total
Ambulance	4
Trailer, Cargo, 2-Axle	9
Trailer, Generator	26
Trailer, Kitchen	19
Trailer, POL (4,200-Liter)	8
Trailer, Water (900-Liter)	19
Radios:	
VHF, Manpack, Low-Power	33
VHF, Vehicle Mount, Medium-Power	150
HF, Manpack, Low-Power	7
HF, Vehicle Mount, Medium-Power	13
HF/VHF, Vehicle Mount, Medium-Power	12
HF/VHF, Vehicle Mount, High-Power	7
Radio Relay, VHF/UHF	6
Warning Receiver	7

Engineer Brigade, Army or Corps or Army Group



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* Some engineer brigades may have a second pontoon bridge battalion. However, the equipment totals here include only one such battalion. In addition to the standard types of battalion shown here, some engineer brigades at army or army group levels could include one or more of the following types: an engineer construction battalion, a fabrication battalion, a water supply battalion, and possibly a camouflage, concealment, and deception battalion.

(continued)

Engineer Brigade, Army or Corps or Army Group (continued)

Principal Items of Equipment	*Brigade HQ*	*Engineer Bn (x2)*	*Road & Bridge Bn*	*Obstacle Bn*	*Obstacle-Clearing Bn*	*Pontoon Bridge Bn*	*Chemical Defense Plt*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES									
APC, BTR-60/70/80		6		3	3				12
ACV, BRDM-2U		2				3			5
ACV, BTR (R-145BM)		2							2
Chem Recon Veh, BRDM-2RKh/RKhM							3		3
Armored Recovery Vehicle			3	3	3	3			12
WEAPONS									
ATRL, RPG-22/26*		16/18		12	12				40/42
SAM, Shoulder-Fired	3	18	9			6			36
ENGINEER EQUIPMENT									
Mineclearer, MTK/MTK-2		4			9				13
Mine Detector, DIM		6			9				15
Minelayer, PMR/GMZ		6		27					33
Minelayer, UMZ*		0/6							0/6
Armored Engineer Tractor, IMR		4			3				7
Engineer Recon Vehicle, IRM		4		9		2			15
Bridge, PMP Center**		32				32			64
Bridge, PMP Ramp**		4				4			8
Powerboat**		12				12			24
Bridge, Truck-Launched		16	16						32
Bridge, Tank-Launched		8	12						20
Tracked Amphibian, K-61/PTS		24							24
Tracked Ferry, GSP/PMM-2 ***		12							12
Assault Boat		20							20
Trailer, Amphibious, PKP		12							12
Route-Clearing Vehicle, BAT/PKT		16	6		3				25
Truck, Sawmill		2	2						4
Trailer, Saw		2	2						4
Truck, Water Purification		2	2						4
Concrete Mixer		2	2						4
Tractor		4	3						7
Piledriver Set, KMS		2	2						4
Ditching Machine, BTM/MDK		8	4	9					21
Grader		4	5						9

* Totals listed with multiple numbers (such as 16/18) reflect the numbers of that particular piece of equipment when engineer battalions do or do not have the UMZ minelayer, respectively.

** The PMM-2 amphibious bridge/ferry system may replace the PMP pontoon bridge. With the PMM-2, there is no need for powerboats.

*** With the PMM-2, there are a total of 16 ferries rather than 12.

(continued)

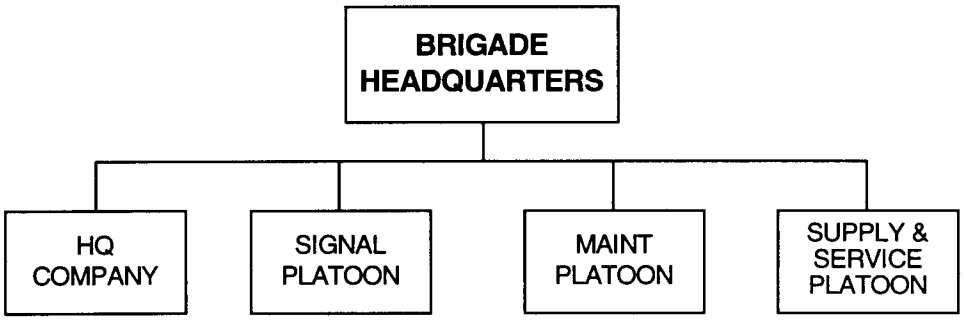
Engineer Brigade, Army or Corps or Army Group (continued)

Principal Items of Equipment	*Brigade HQ*	*Engineer Bn (x2)*	*Road & Bridge Bn*	*Obstacle Bn*	*Obstacle-Clearing Bn*	*Pontoon Bridge Bn*	*Chemical Defense Plt*	*Medical Plt*	*TOTAL*
TRUCKS									
Truck, Utility	3	20	9	7	7	6			52
Truck, Light	4							1	5
Truck, Medium*	4	54/60	18	40	16	4		2	138/144
Truck, Heavy**		12	6	6	6	12			42
Truck, Crane		2	2						4
Truck, Crane Shovel		6	2						8
Truck, Decon, ARS-12U/14							3		3
Truck, Decon, DDA-53/66							1	1	2
Truck, Dump		6	4						10
Truck, POL (5,000-L)	1	16	7	7	3	4			38
Truck, Recovery	1								1
Truck, Water (2,000-L)			1	1	1	1	2		6
Van, Command	3								3
Van, Hospital								1	1
Van, Kitchen	1		1	1	1	1			5
Van, Maintenance	4	8	4	4	4	4			28
Van, Medium	1	2	1	1	1	1			7
Van, Signal	1	4	1	1	1	1			9
Ambulance			1	1	1	1		4	8
TRAILERS									
Trailer, Cargo, 1-Axle	1	8	4	1	1	1			16
Trailer, Cargo, 2-Axle	1	6	7	1	1	1			17
Trailer, Compressor		2							2
Trailer, Generator	1	8	3	3	3	3			21
Trailer, Kitchen		10	5	4	4	3		1	27
Trailer, POL (4,200-L)	1	20	7	7	3	4			42
Trailer, Water (900-/1,200-L)	1	10	5	4	4	3	2	1	30
RADIOS									
VHF, Manpack, Low-Power	6	8	22	16	28	4		1	85
VHF, Vehicle Mount, Medium-Power*		84/90	27	15	15	11	3		155/161
HF, Manpack, Low-Power*		22/24	1	1	1	3	1		29/31
HF, Vehicle Mount, Medium-Power		2							2
HF/VHF, Vehicle Mount, Medium-Power	4	4	2	2	2	2			16
HF/VHF, Vehicle Mount, High-Power	1	4	1	1	1	1			9
Warning Receiver	1	2	1	1	1	1			7

* Totals listed with multiple numbers (such as 54/60) reflect the numbers of that particular piece of equipment when engineer battalions do or do not have the UMZ minelayer, respectively. Also, when the towed minelayer PMR replaces the armored tracked GMZ, the number of medium trucks goes up by 6, and the number of vehicle-mounted radios goes down by 16.

** When the PMM-2 replaces the PMP pontoon bridge, there is no need for the heavy trucks that carry or tow powerboats in the pontoon bridge battalion.

Brigade Headquarters, Engr Bde

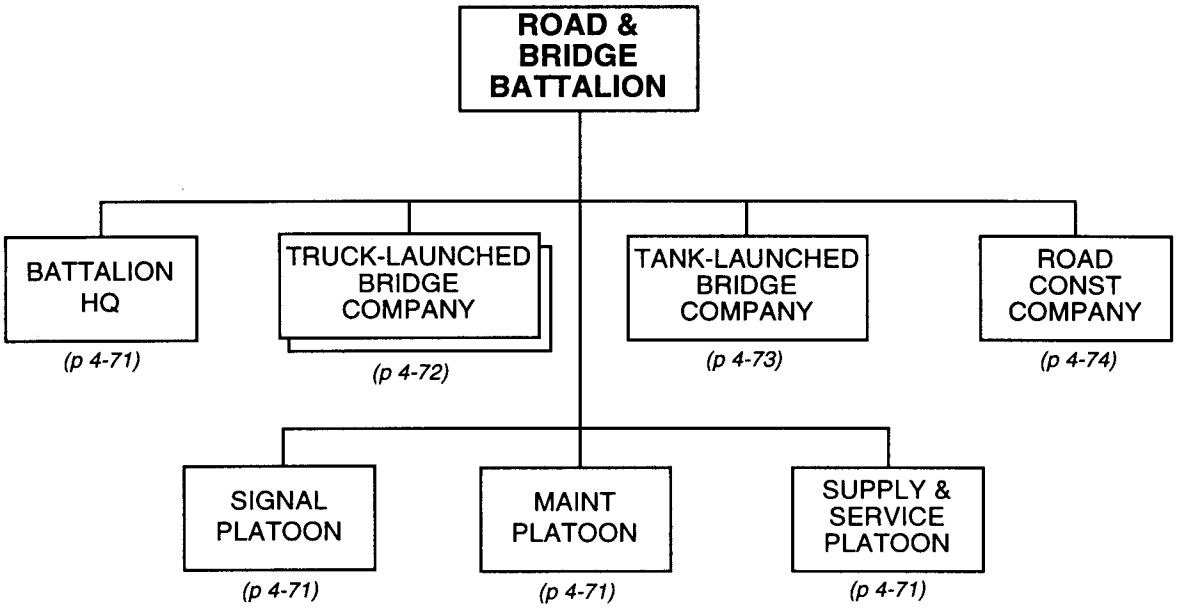


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired	3
Truck, Utility	3
Truck, Light	4
Truck, Medium	4
Truck, POL (5,000-Liter)	1
Truck, Recovery	1
Van, Command	3
Van, Kitchen	1
Van, Maintenance	4
Van, Medium	1
Van, Signal	1
Trailer, Cargo 1-Axle	1

Equipment	Total
Trailer, Cargo 2-Axle	1
Trailer, Generator	1
Trailer, POL (4,200-Liter)	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	6
HF/VHF, Vehicle Mount, Medium-Power	4
HF/VHF, Vehicle Mount, High-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	1

Road and Bridge Battalion, Engr Bde

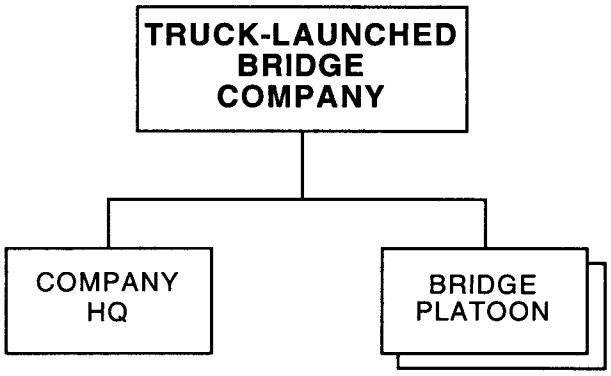


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Road and Bridge Battalion, Engr Bde (continued)

Principal Items of Equipment	*Battalion HQ*	*Truck-Launched Bridge Co (x2)*	*Tank-Launched Bridge Co*	*Road Const Co*	*Signal Plt*	*Maintenance Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES								
Armored Recovery Vehicle						3		3
WEAPONS								
SAM, Shoulder-Fired		6	3					9
ENGINEER EQUIPMENT								
Bridge, Truck-Launched		16						16
Bridge, Tank-Launched			12					12
Route-Clearing Vehicle, BAT/PKT				6				6
Truck, Crane				2				2
Truck, Crane Shovel				2				2
Truck, Dump				4				4
Truck, Sawmill				2				2
Trailer, Saw				2				2
Truck, Water Purification				2				2
Concrete Mixer				2				2
Tractor				3				3
Piledriver Set, KMS				2				2
Ditching Machine, BTM/MDK				4				4
Grader				5				5
TRUCKS								
Truck, Utility	2	2	1	2	1		1	9
Truck, Medium	1	6	2	6	1	1	1	18
Truck, Heavy		2		4				6
Truck, POL (5,000-Liter)							7	7
Truck, Water (2,000-Liter)							1	1
Van, Kitchen							1	1
Van, Maintenance						4		4
Van, Medium							1	1
Van, Signal					1			1
Ambulance							1	1
TRAILERS								
Trailer, Cargo, 1-Axle	1			3				4
Trailer, Cargo, 2-Axle				6		1		7
Trailer, Generator					1	1	1	3
Trailer, Kitchen		2	1	1			1	5
Trailer, POL (4,200-L)							7	7
Trailer, Water (900-/1,200-L)		2	1	1			1	5
RADIOS								
VHF, Manpack, Low-Power		8	4	6		3	1	22
VHF, Vehicle Mount, Medium-Power		8	12	4		3		27
HF, Manpack, Low-Power	1							1
HF/VHF, Vehicle Mount, Medium-Power	1				1			2
HF/VHF, Vehicle Mount, High-Power					1			1
Warning Receiver	1							1

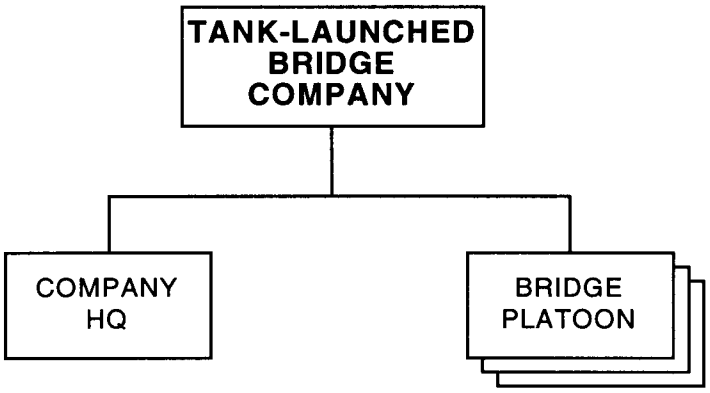
Truck-Launched Bridge Company, Road and Bridge Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Bridge, Truck-Launched	8
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Medium	3
Truck, Heavy	1
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	4

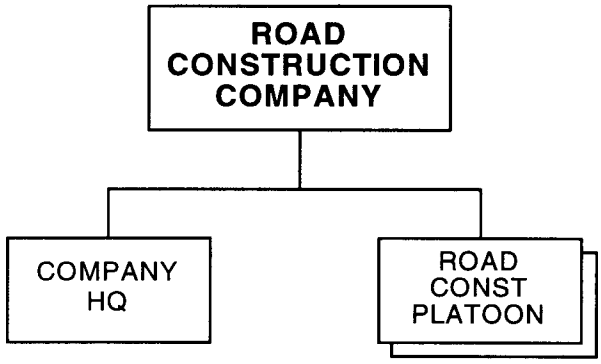
Tank-Launched Bridge Company, Road and Bridge Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Bridge, Tank-Launched	12
SAM, Shoulder-Fired	3
Truck, Utility	1
Truck, Medium	2
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power	12

Road Construction Company, Road and Bridge Bn

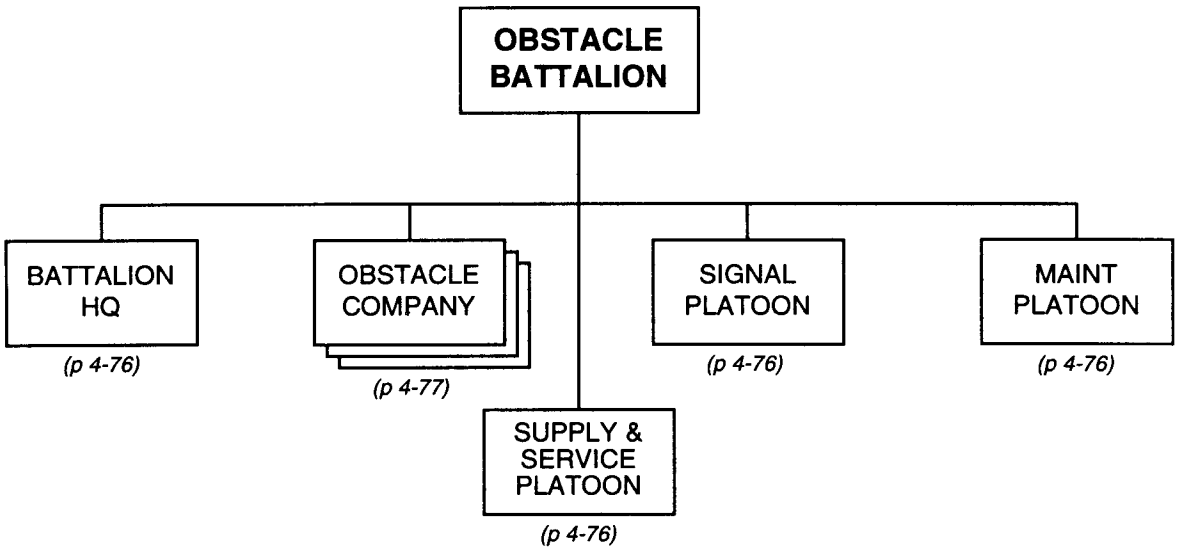


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Route-Clearing Vehicle, BAT/PKT	6
Grader	5
Truck, Crane	2
Truck, Crane Shovel	2
Truck, Dump	4
Truck, Sawmill	2
Truck, Water Purification	2
Ditching Machine, BTM/MDK	4
Concrete Mixer	2
Piledriver Set, KMS	2
Tractor	3
Truck, Utility	2

Equipment	Total
Truck, Medium	6
Truck, Heavy	4
Trailer, Cargo, 1-Axle	3
Trailer, Cargo, 2-Axle	6
Trailer, Kitchen	1
Trailer, Saw	2
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	6
VHF, Vehicle Mount, Medium-Power	4

Obstacle Battalion, Engr Bde



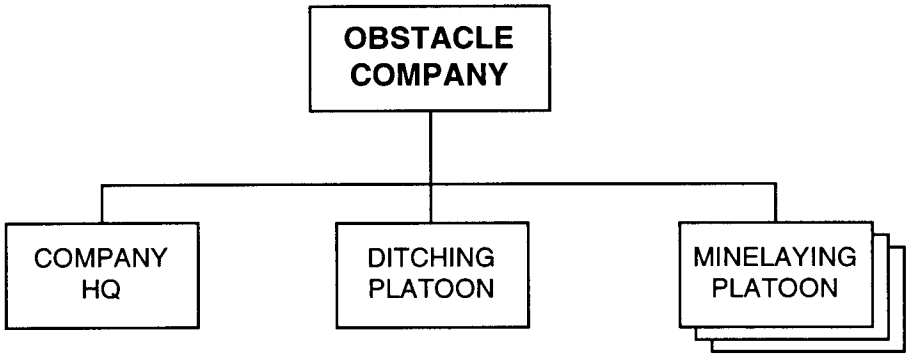
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Obstacle Battalion, Engr Bde (continued)

Principal Items of Equipment	*Battalion HQ*	*Obstacle Co (x3)*	*Signal Plt*	*Maintenance Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES						
APC, BTR-60/70/80		3				3
Armored Recovery Vehicle				3		3
WEAPONS						
ATRL, RPG-22/26		12				12
ENGINEER EQUIPMENT						
Engineer Recon Vehicle, IRM		9				9
Minelayer, PMR/GMZ*		27				27
Ditching Machine, BTM/MDK		9				9
TRUCKS						
Truck, Utility	2	3	1		1	7
Truck, Medium*	1	36	1	1	1	40
Truck, Heavy		6				6
Truck, POL (5,000-L)					7	7
Truck, Water (2,000-L)					1	1
Van, Kitchen					1	1
Van, Maintenance				4		4
Van, Medium					1	1
Van, Signal			1			1
Ambulance					1	1
TRAILERS						
Trailer, Cargo, 1-Axle	1					1
Trailer, Cargo, 2-Axle				1		1
Trailer, Generator			1	1	1	3
Trailer, Kitchen		3			1	4
Trailer, POL (4,200-L)					7	7
Trailer, Water (900-/1,200-L)		3			1	4
RADIOS						
VHF, Manpack, Low-Power		12		3	1	16
VHF, Vehicle Mount, Medium-Power*		12		3		15
HF, Manpack, Low-Power	1					1
HF/VHF, Vehicle Mount, Medium-Power	1		1			2
HF/VHF, Vehicle Mount, High-Power			1			1
Warning Receiver	1					1

* When the armored tracked minelayer GMZ replaces the towed PMR, the obstacle battalion needs only 31 medium trucks but has a total of 24 VHF, vehicle mount, medium-power radios.

Obstacle Company, Obstacle Bn



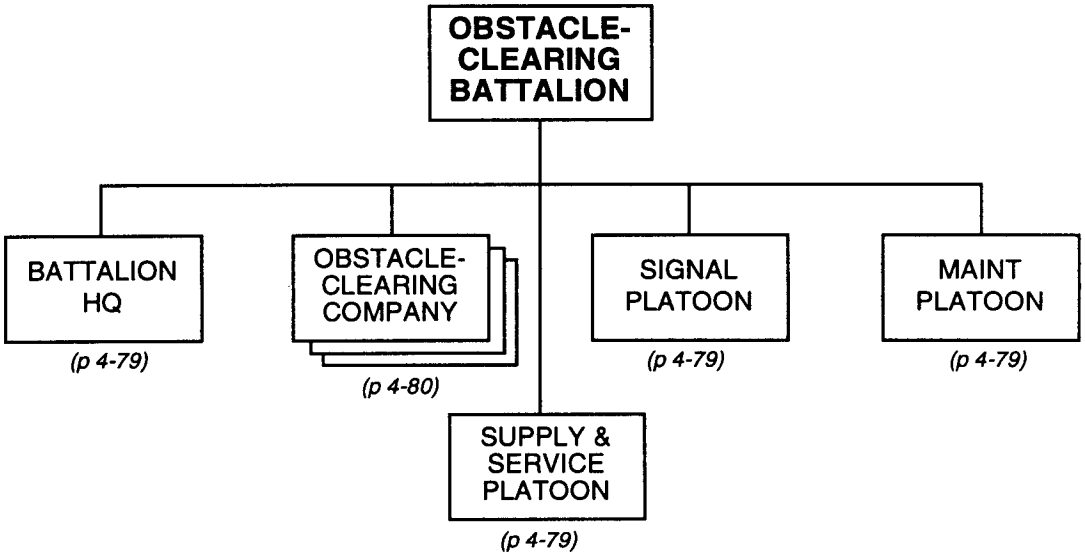
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	1
ATRL, RPG-22/26	4
Engineer Recon Vehicle, IRM	3
Minelayer, PMR/GMZ*	9
Ditching Machine, PZM/MDK	3
Truck, Utility	1
Truck, Medium*	12

Equipment	Total
Truck, Heavy	2
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Vehicle Mount, Medium-Power*	4

* When the armored tracked minelayer, GMZ, replaces the towed PMR, the obstacle company needs only nine medium trucks but has a total of seven VHF, vehicle mount, medium-power radios.

Obstacle-Clearing Battalion, Engr Bde

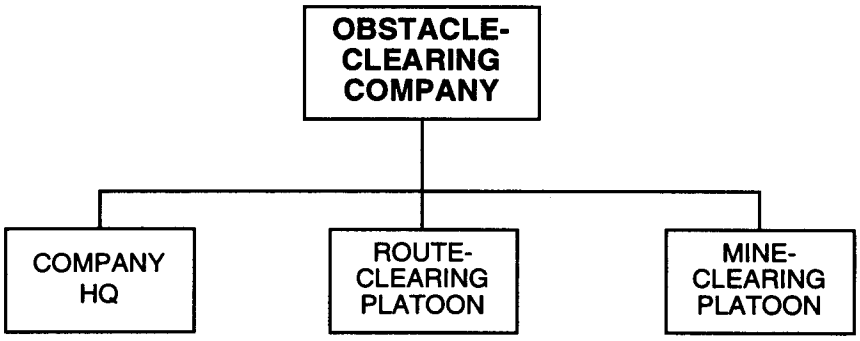


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Obstacle-Clearing Battalion, Engr Bde (continued)

Principal Items of Equipment	*Battalion HQ*	*Obstacle-Clearing Co (x3)*	*Signal Plt*	*Maintenance Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES						
APC, BTR-60/70/80		3				3
Armored Recovery Vehicle				3		3
WEAPONS						
ATRL, RPG-22/26		12				12
ENGINEER EQUIPMENT						
Armored Engineer Tractor, IMR		3				3
Mine Detector, DIM		9				9
Mineclearer, MTK/MTK-2		9				9
Route-Clearing Vehicle, BAT/PKT		3				3
TRUCKS						
Truck, Utility	2	3	1		1	7
Truck, Medium	1	12	1	1	1	16
Truck, Heavy		6				6
Truck, POL (5,000-Liter)					3	3
Truck, Water (2,000-Liter)					1	1
Van, Kitchen					1	1
Van, Maintenance				4		4
Van, Medium					1	1
Van, Signal			1			1
Ambulance					1	1
TRAILERS						
Trailer, Cargo, 1-Axle	1					1
Trailer, Cargo, 2-Axle				1		1
Trailer, Generator			1	1	1	3
Trailer, Kitchen		3			1	4
Trailer, POL (4,200-L)					3	3
Trailer, Water (900-/1,200-L)		3			1	4
RADIOS						
VHF, Manpack, Low-Power		24		3	1	28
VHF, Vehicle Mount, Medium-Power		12		3		15
HF, Manpack, Low-Power	1					1
HF/VHF, Vehicle Mount, Medium-Power	1		1			2
HF/VHF, Vehicle Mount, High-Power			1			1
Warning Receiver	1					1

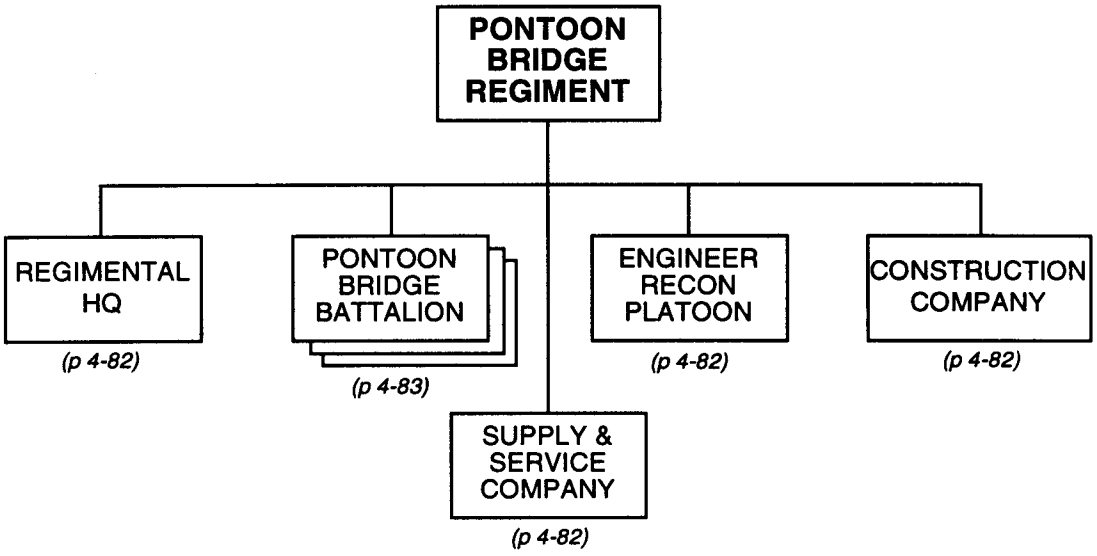
Obstacle-Clearing Company, Obstacle-Clearing Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
APC, BTR-60/70/80	1
ATRL, RPG-22/26	4
Armored Engineer Tractor, IMR	1
Mine Detector, DIM	3
Mineclearer, MTK/MTK-2	3
Route-Clearing Vehicle, BAT/PKT	1
Truck, Utility	1
Truck, Medium	4
Truck, Heavy	2
Trailer, Kitchen	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	8
VHF, Vehicle Mount, Medium-Power	4

Pontoon Bridge Regiment,
Army or Army Group _____



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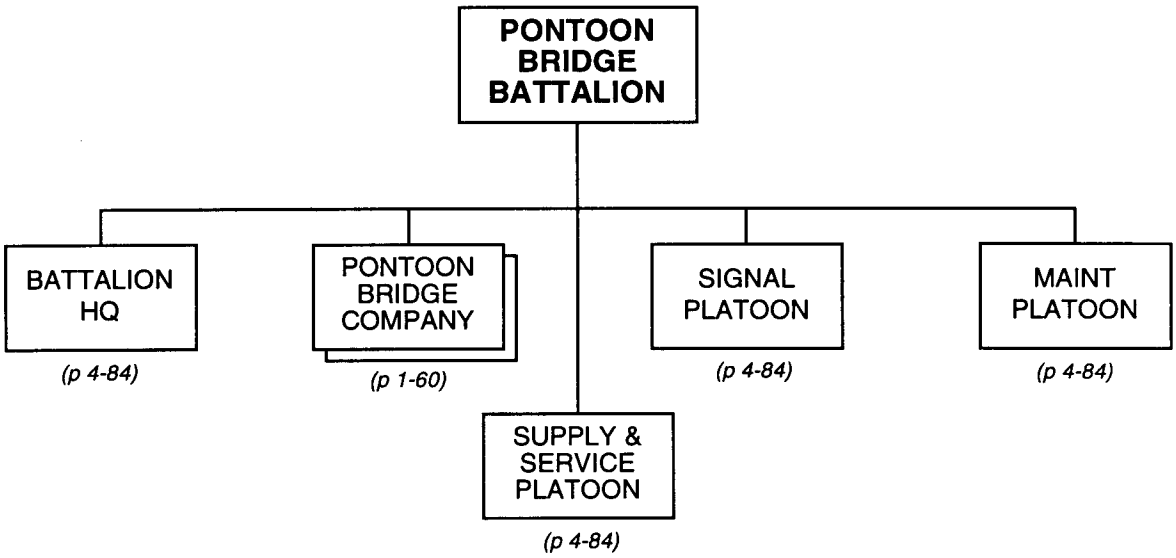
Pontoon Bridge Regiment, Army or Army Group (continued)

Principal Items of Equipment	*Reginemtal HQ*	*Pontoon Bridge Bn (x3)*	*Engineer Recon Plt*	*Constuction Co*	*Supply & Service Co*	*TOTAL*
ARMORED VEHICLES						
ACV, BRDM-2U	1	9				10
APC, BTR-60/70/80			3			3
Armored Recovery Vehicle		9				9
WEAPONS						
SAM, Shoulder-Fired	3	18				21
ENGINEER EQUIPMENT						
Engineer Recon Vehicle, IRM		6	2			8
Ditching Machine, BTM/MDK				4		4
Route-Clearing Vehicle, BAT				4		4
Mine Detector, DIM			1			1
Bridge, Truck-Launched				4		4
Bridge, PMP Center**		96				96
Bridge, PMP Ramp**		12				12
Powerboat**		36				36
TRUCKS						
Truck, Utility	2	18	2	1	1	24
Truck, Light	1				3	4
Truck, Medium		12	1	13	4	30
Truck, Heavy**		36		5		41
Truck, Crane					1	1
Truck, Crane Shovel				2		2
Truck, Dump				1		1
Truck, POL (5,000-L)		12			1	13
Truck, Recovery					1	1
Truck, Water (2,000-L)		3				3
Van, Command	3					3
Van, Kitchen		3			1	4
Van, Maintenance	1	12			3	16
Van, Medium	1	3				4
Van, Signal	1	3				4
Ambulance		3			1	4
TRAILERS						
Trailer, Cargo, 1-Axle	1	3				4
Trailer, Cargo, 2-Axle		3		2	1	6
Trailer, Generator	1	9		1		11
Trailer, Kitchen		9		1		10
Trailer, POL (1,200-L)			2			2
Trailer, POL (4,200-L)		12			1	13
Trailer, Water (900-L)		9		1	1	11
RADIOS						
VHF, Manpack, Low-Power	5	12			1	18
VHF, Vehicle Mount, Medium-Power		33	5	8		46
HF, Manpack, Low-Power		9	3	1		13
HF/VHF, Vehicle Mount, Medium-Power	4	6				10
HF/VHF, Vehicle Mount, High-Power	1	3				4
Radio Relay, VHF/UHF	1					1
Warning Receiver	1	3				4

* With the GSP, 108 half-ferry vehicles form 54 ferries; with the PMM-2, there is only one vehicle per ferry.

** The PMM-2 amphibious bridge/ferry system may replace the PMP pontoon bridge. With the PMM-2, there is no need for powerboats or the heavy trucks that carry or tow them.

Pontoon Bridge Battalion, Pontoon Bridge Regt or Water Crossing Regt or Engr Bde



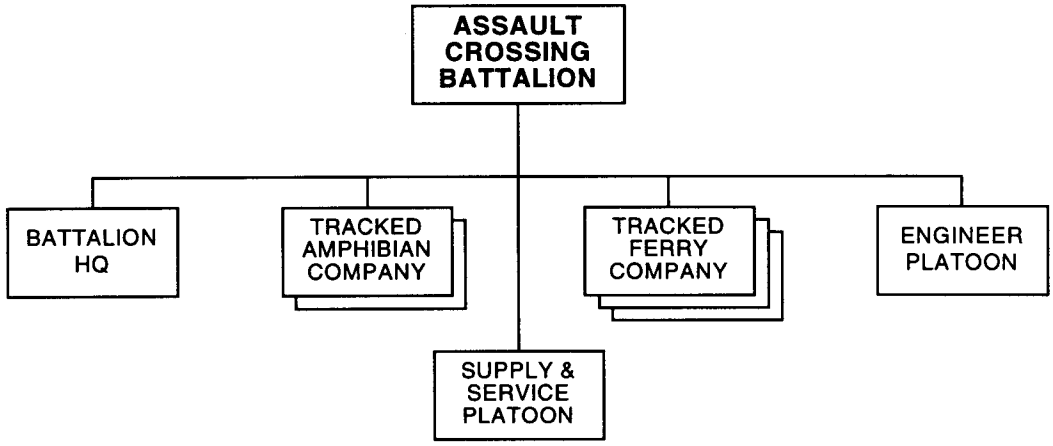
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Pontoon Bridge Battalion, Pontoon Bridge Regt or Water Crossing Regt or Engr Bde (continued)

Principal Items of Equipment	*Battalion HQ*	*Pontoon Bridge Co (x2)*	*Signal Plt*	*Maintenance Plt*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES						
ACV, BRDM-2U	1	2				3
Armored Recovery Vehicle				3		3
WEAPONS						
SAM, Shoulder-Fired		6				6
ENGINEER EQUIPMENT						
Engineer Recon Vehicle, IRM		2				2
Bridge, PMP Center*		32				32
Bridge, PMP Ramp*		4				4
Powerboat*		12				12
TRUCKS						
Truck, Utility	2	2	1		1	6
Truck, Medium	1		1	1	1	4
Truck, Heavy*		12				12
Truck, POL (5,000-Liter)					4	4
Truck, Water (2,000-Liter)					1	1
Van, Kitchen					1	1
Van, Maintenance				4		4
Van, Medium					1	1
Van, Signal			1			1
Ambulance					1	1
TRAILERS						
Trailer, Cargo, 1-Axle	1					1
Trailer, Cargo, 2-Axle				1		1
Trailer, Generator			1	1	1	3
Trailer, Kitchen		2			1	3
Trailer, POL (4,200-L)					4	4
Trailer, Water (900-/1,200-L)		2			1	3
RADIOS						
VHF, Manpack, Low-Power				3	1	4
VHF, Vehicle Mount, Medium-Power		8		3		11
HF, Manpack, Low-Power	1	2				3
HF/VHF, Vehicle Mount, Medium-Power	1		1			2
HF/VHF, Vehicle Mount, High-Power			1			1
Warning Receiver	1					1

* The PMM-2 amphibious bridge/ferry system may replace the PMP pontoon bridge. With the PMM-2, there is no need for powerboats or the heavy trucks that carry or tow them.

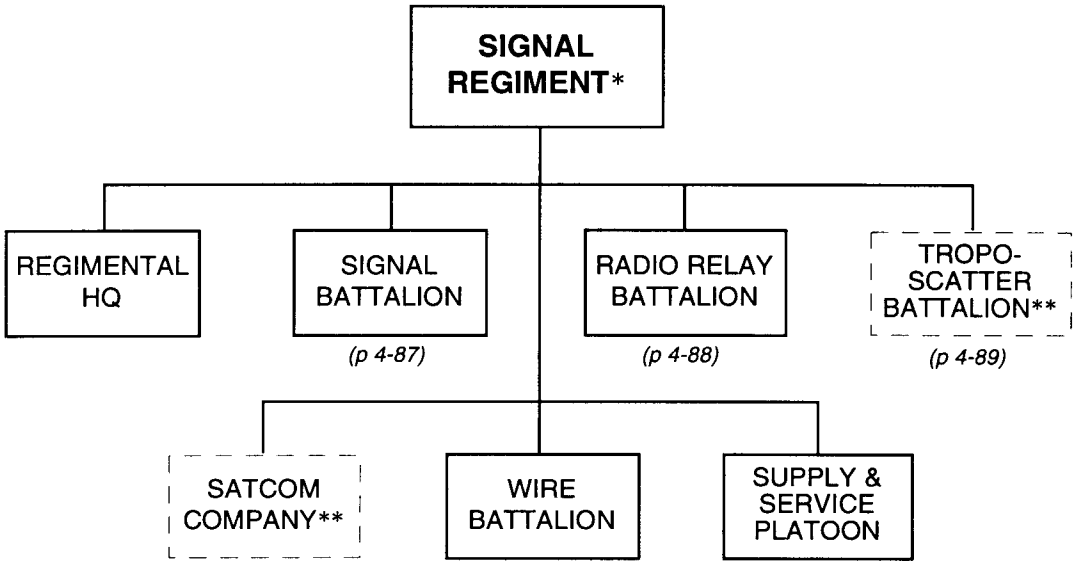
Assault Crossing Battalion, Army or Army Group or Water Crossing Regt



Principal Items of Equipment	*Battalion HQ*	*Tracked Amphib Co (x2)*	*Tracked Ferry Co (x3)*	*Engineer Platoon*	*Supply & Service Plt*	*TOTAL*
ARMORED VEHICLES						
ACV, BRDM-2U	1	2	3	1		7
Armored Recovery Vehicle					3	3
WEAPONS						
SAM, Shoulder-Fired	3					3
ENGINEER EQUIPMENT						
Engineer Recon Vehicle, IRM				3		3
Armored Engineer Tractor, IMR				3		3
Ditching Machine, BTM/MDK				3		3
Route-Clearing Vehicle, BAT				3		3
Tracked Amphibian, K-61/PTS		36				36
Trailer, Amphibious, PKP		18				18
Tracked Ferry, PMM-2*			72			72
TRUCKS						
Truck, Utility	1				1	2
Truck, Medium					10	10
Truck, Crane					3	3
Truck, POL (5,000-L)					18	18
TRAILERS						
Trailer, Cargo, 2-Axle					5	5
Trailer, Kitchen					1	1
Trailer, POL (4,200-L)					18	18
Trailer, Water (900-L)					1	1
RADIOS						
VHF, Manpack, Low-Power	1				3	4
VHF, Vehicle Mount, Medium-Power	1	6	9	13	3	32
HF, Manpack, Low-Power	1					1
Warning Receiver	1					1

* With the PMM-2, there is only one vehicle per ferry. Some assault crossing battalions may have the older GSP ferry. Two GSP heavy amphibious ferry vehicles make up one ferry. Thus, a GSP-equipped battalion capable of forming 54 ferries actually has 108 half-ferries.

Signal Regiment, Army or Corps or Army Group



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radio Stations***:	
HF, Vehicle Mount, High-Power	3
HF/VHF, Vehicle Mount, High-Power	3

Equipment	Total
Radio Relay Stations****:	
VHF/UHF	12-15
UHF	9-12
Troposcatter, SHF	9-15 **
SATCOM, UHF/SHF	3 **

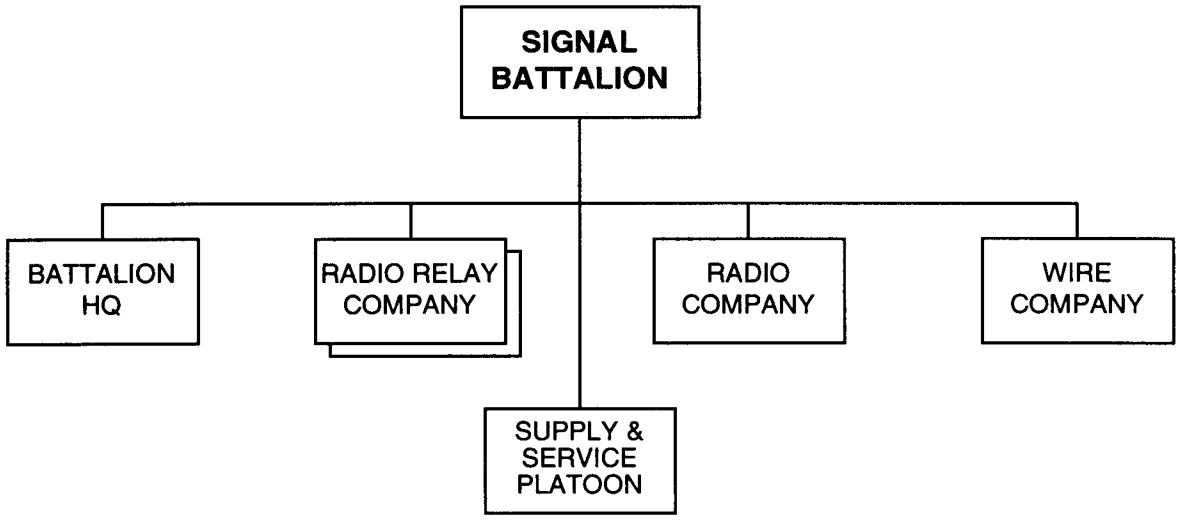
* An army, corps, or army group headquarters normally task-organizes the assets of the signal regiment's subordinate units to support its formation of forward, main, alternate, and rear command and control posts (CPs).

** The troposcatter battalion and satellite communications (SATCOM) company are organic only in a signal regiment at army group level. At army or corps level, these units or stations from them are present only if allocated from the parent army group.

*** Each HF or HF/VHF radio station normally occupies a single box-body truck. However, some variants of the HF/VHF station may use an armored vehicle instead of a truck.

**** Depending on the specific radio station model, each VHF/UHF radio relay station comprises one to two box-body trucks. Each UHF radio relay station comprises one to three box-body trucks. Each SHF troposcatter radio relay station comprises one or two box-body trucks. SATCOM stations also comprise one or several box-body trucks.

Signal Battalion, Army or Corps or Army Group or Signal Regt or Signal Bde



PRINCIPAL ITEMS OF EQUIPMENT

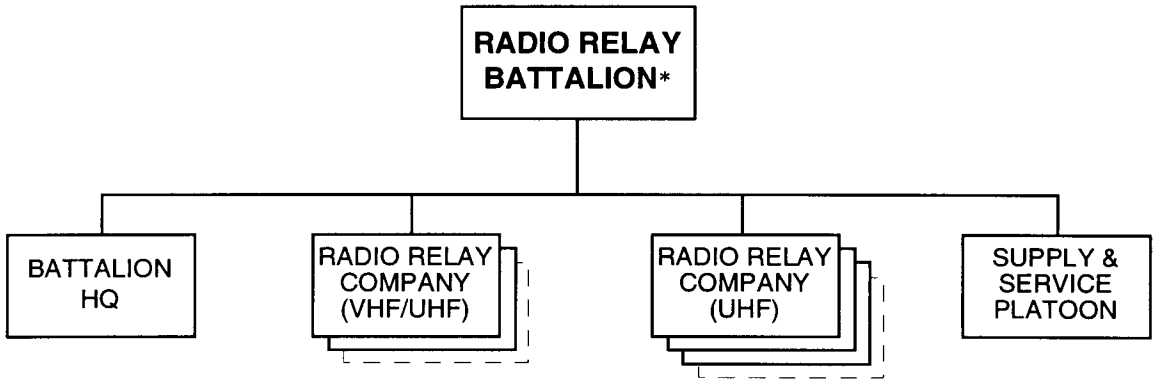
Equipment	Total
Radio Stations:	
HF Vehicle Mount	
High-Power*	3
HF/VHF Vehicle Mount	
High-Power**	3
Radio Relay Station, VHF/UHF***	6

* Each HF radio station occupies a single box-body truck.

** Each HF/VHF radio station normally comprises a single box-body truck. However, some variants may use an armored vehicle instead of a truck.

*** Each VHF/UHF radio relay station comprises one to two box-body trucks, depending on the specific station model used.

Radio Relay Battalion, Army or Army Group or Signal Regt or Signal Bde



PRINCIPAL ITEMS OF EQUIPMENT

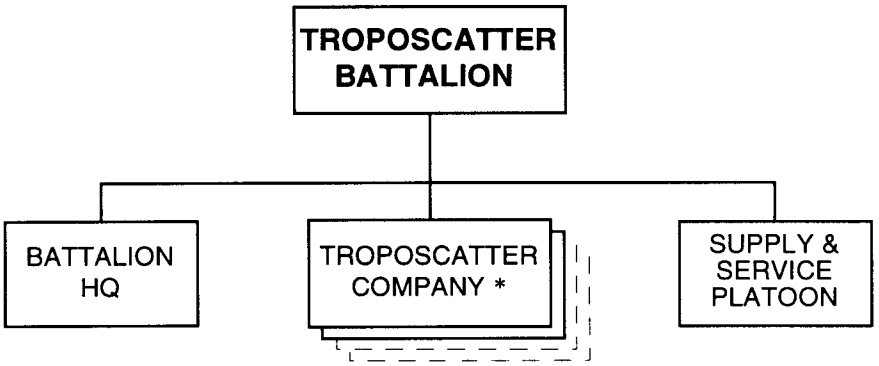
Equipment	Total	Equipment	Total
Radio Relay Station, VHF/UHF**	6-9	Radio Relay Station, UHF***	9-12

* The number of companies can vary, depending on the number of subordinate organizations requiring communications links. This relates particularly to the number of divisions or separate brigades in an army or the number of armies, corps, divisions, or separate brigades directly subordinate to an army group.

** Each VHF/UHF radio relay station comprises one to two box-body trucks, depending on the specific radio station model.

*** Each UHF radio relay station comprises one to three box-body trucks, depending on the specific radio station model.

Troposcatter Battalion, Signal Regt or Signal Bde or Army or Army Group



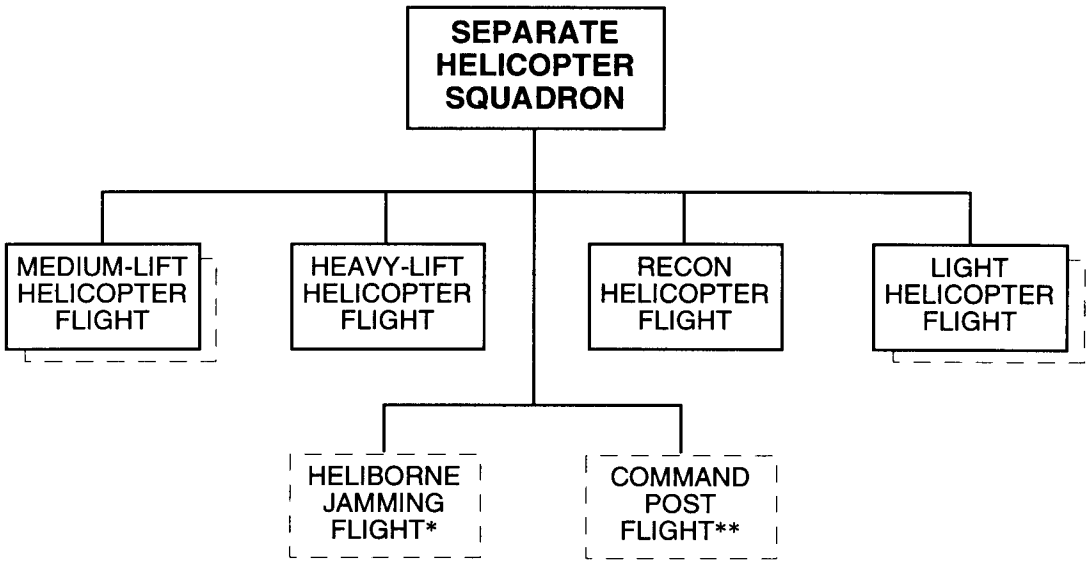
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radio Relay Station, Troposcatter, SHF**	6-12

* The number of companies can vary, depending on the number of subordinate organizations requiring communications links. This relates particularly to the number of armies, corps, divisions, or separate brigades directly subordinate to an army group.

** Each SHF troposcatter radio relay station comprises one or two box-body trucks, depending on the specific radio station model.

Separate Helicopter Squadron, Army or Corps



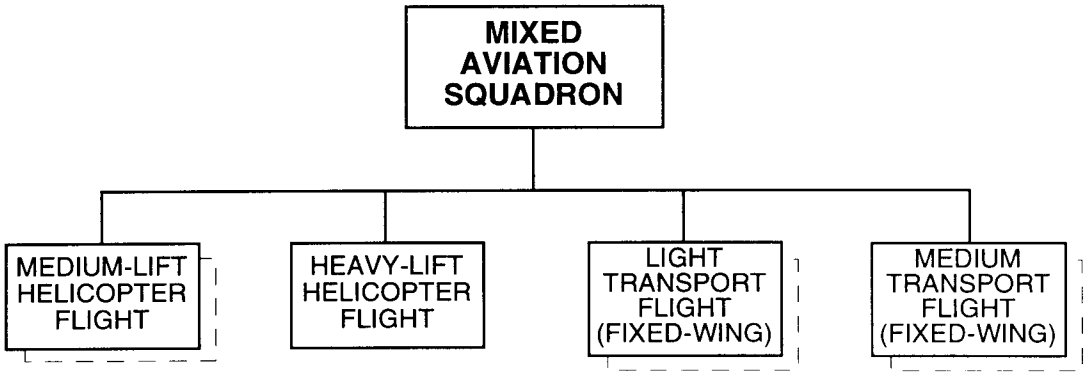
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Helicopter, Mi-8T/HIP C/E or Mi-8MT(Mi-17)/HIP H	3-6
Heavy-Lift Helicopter, Mi-6A/HOOK or Mi-26/HALO A	1-2
NBC-Sampling Helicopter, Mi-24R/HIND G1	2
Photorecon Helicopter, Mi-24K/HIND G2	2
Light Helicopter, Mi-2/HOPLITE	6-12

* Some separate helicopter squadrons may also have two or three Mi-8SMV/HIP J and two or three Mi-8PPA/HIP K or Mi-8MT(Mi-17P)/HIP H jamming helicopters.

** Some squadrons may also have one or two Mi-8VKP airborne command post helicopters.

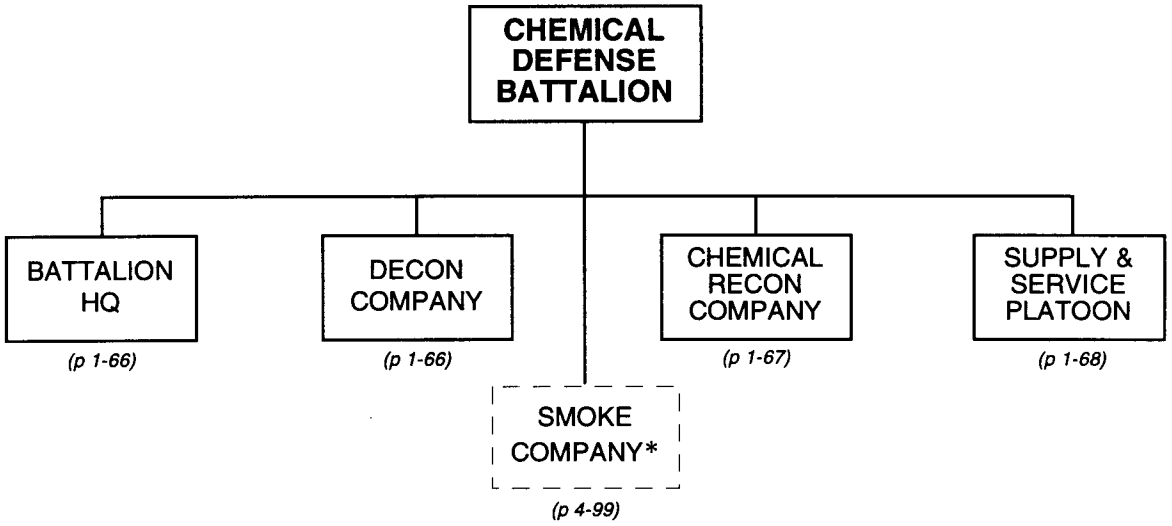
Mixed Aviation Squadron,
Army or Corps or Air Army or Mixed Avn Regt



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Helicopter, Mi-8T/HIP C/E or Mi-8MT(Mi-17)/HIP H	4-8
Heavy-Lift Helicopter, Mi-6A/HOOK or Mi-26/HALO A	1-2
Light Transport Aircraft, An-26/CURL or Il-18/COOT	6-12
Medium Transport Aircraft, An-12/CUB	6-12

Chemical Defense Battalion, Army or Corps or Army Group or Chem Def Bde _____



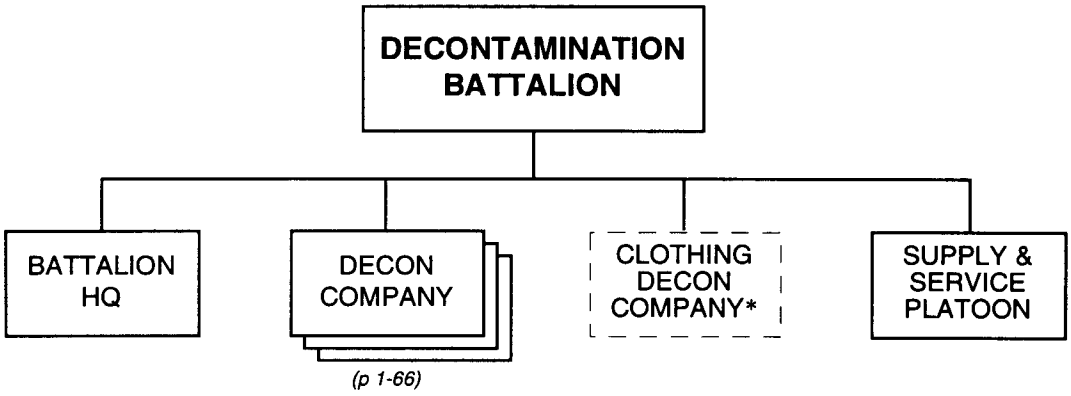
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Chemical Recon Vehicle, BRDM-2RKh/RKhM	9
Truck, Decon, ARS-12U/14	18
Truck, Decon, DDA-53/66	6
Truck, Decon, TMS-65	4
Trailer, Decon, DDP	4
ATGL, RPG-22/26	5
Truck, Utility	4
Truck, Light	4
Truck, Medium	23
Truck, POL (5,000-Liter)	4
Truck, Water (2,000-Liter)	7
Van, Light	1
Van, Maintenance	2
Van, Signal	1

Equipment	Total
Ambulance	1
Trailer, Cargo, 1-Axle	2
Trailer, Cargo, 2-Axle	6
Trailer, Generator	3
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	4
Trailer, Water (900-Liter)	7
Radios:	
VHF, Manpack, Low-Power	5
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount Medium-Power	1
HF, Manpack, Low-Power	2
Warning Receiver	1

* The chemical defense battalion at army level may have a smoke company. However, the equipment totals here do not include that company.

Decontamination Battalion,
Army or Army Group or Chem Def Bde _____



PRINCIPAL ITEMS OF EQUIPMENT

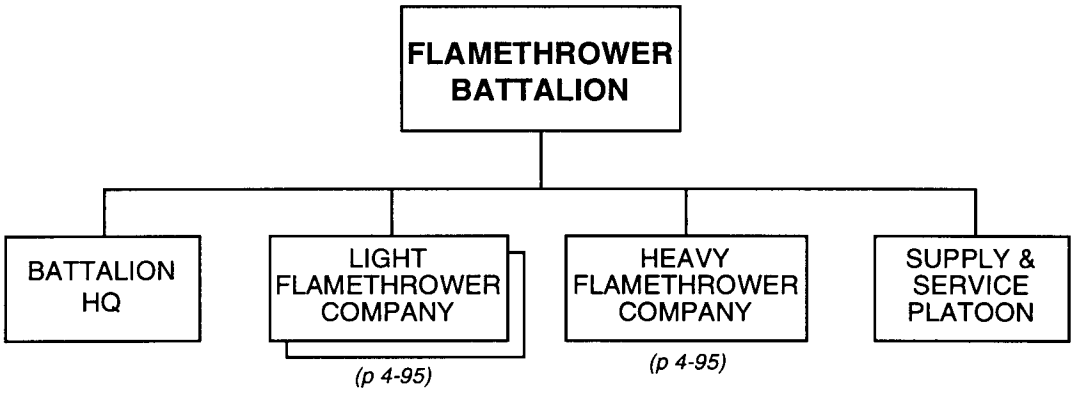
Equipment	Total
ATRL, RPG-22/26	12
Truck, Decon, ARS-12U/14	50
Truck, Decon, DDA-53/66	14
Truck, Decon, TMS-65	12
Trailer, Decon, DDP	12
Truck, Utility	5
Truck, Light	12
Truck, Medium	47
Truck, POL (5,000-Liter)	4
Truck, Water (2,000-Liter)	19
Van, Light	1
Van, Maintenance	2
Van, Signal	1

Equipment	Total
Ambulance	1
Trailer, Cargo, 1-Axle	6
Trailer, Cargo, 2-Axle	10
Trailer, Generator	3
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	19
Radios:	
VHF, Manpack, Low-Power	8
HF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

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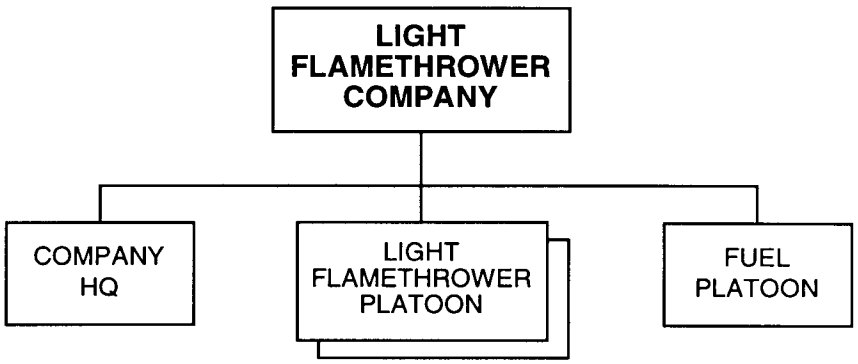
* The equipment totals for the battalion do not include this company. If present, it includes three to six AGV-3M/3U decontamination stations (each comprising four trucks) and three to six trucks mounting BU-4M uniform decontamination systems.

Flamethrower Battalion, Army or Corps



Principal Items of Equipment	*Battalion HQ*	*Light Flamethrower Co (x2)*	*Heavy Flamethrower Co*	*Supply & Svc Plt*	*TOTAL*
WEAPONS					
Flamethrower, Light, LPO-50		144			144
Flamethrower, Heavy, TPO-50			16		16
TRUCKS					
Truck, Utility	1	2	1	1	5
Truck, Light		6	3		9
Truck, Medium		12	6	11	29
Truck, Fuel Mixing		2	1		3
Truck, POL (5,000-Liter)				2	2
Truck, Water (2,000-Liter)				1	1
Van, Light	1				1
Van, Maintenance				2	2
Van, Signal	1				1
Ambulance				1	1
TRAILERS					
Trailer, Cargo, 1-Axle		2	1		3
Trailer, Cargo, 2-Axle		12	6	4	22
Trailer, Fuel (1,200-Liter)		2	1		3
Trailer, Generator				3	3
Trailer, Kitchen				3	3
Trailer, POL (4,200-Liter)				2	2
Trailer, Water (900-Liter)				1	1
RADIOS					
VHF, Manpack, Low-Power	1	2	1	1	5
HF, Manpack, Low-Power	1				1
HF/VHF, Vehicle Mount, Medium-Power	1				1
Warning Receiver	1				1

Light Flamethrower Company, Flamethrower Bn

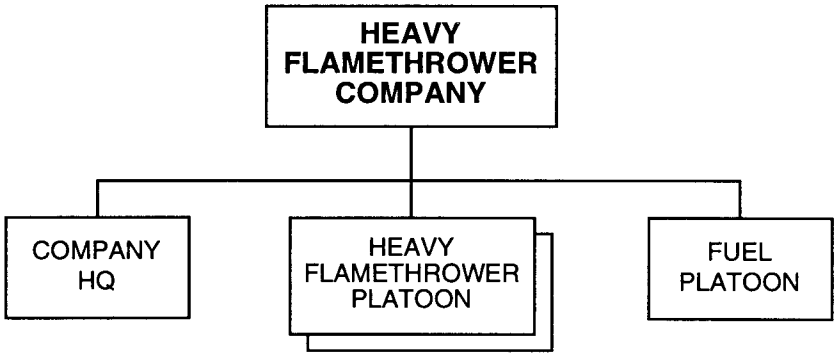


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Flamethrower, Light, LPO-50	72
Truck, Utility	1
Truck, Light	3
Truck, Medium	6
Truck, Fuel Mixing	1

Equipment	Total
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6
Trailer, Fuel (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

Heavy Flamethrower Company, Flamethrower Bn

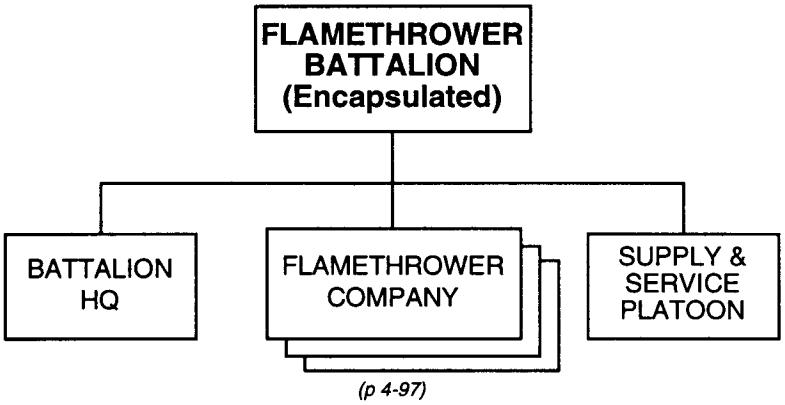


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Flamethrower, Heavy, TPO-50	16
Truck, Utility	1
Truck, Light	3
Truck, Medium	6
Truck, Fuel Mixing	1

Equipment	Total
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6
Trailer, Fuel (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

Flamethrower Battalion (Encapsulated), Army or Corps

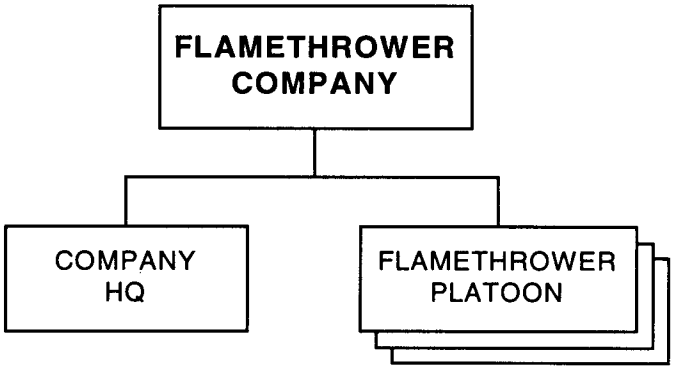


(p 4-97)

Principal Items of Equipment	*Battalion HQ*	*Flamethrower Co (x3)*	*Supply & Svc Plt*	*TOTAL*
WEAPONS				
Flamethrower, RPO/RPO-A/Z/D		243		243
TRUCKS				
Truck, Utility	1	3	1	5
Truck, Light		9		9
Truck, Medium*		27	11	38
Truck, POL (5,000-Liter)			2	2
Truck, Water (2,000-Liter)			1	1
Van, Light	1			1
Van, Maintenance			2	2
Van, Signal	1			1
Ambulance			1	1
TRAILERS				
Trailer, Cargo, 1-Axle		3		3
Trailer, Cargo, 2-Axle		27	4	31
Trailer, Generator			3	3
Trailer, Kitchen			3	3
Trailer, POL (4,200-Liter)			2	2
Trailer, Water (900-Liter)			1	1
RADIOS				
VHF, Manpack, Low-Power	1	3	1	5
HF, Manpack, Low-Power	1			1
HF/VHF, Vehicle Mount, Medium-Power	1			1
Warning Receiver	1			1

* RPO-equipped units may use IFVs or APCs, rather than trucks, for transportation.

Flamethrower Company, Flamethrower Bn (Encapsulated)

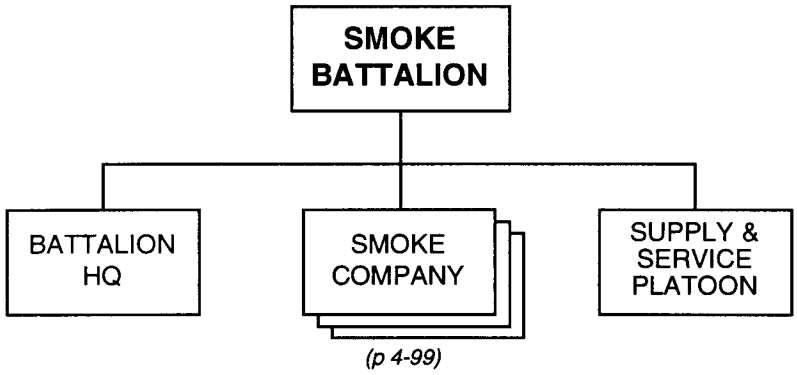


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Flamethrower, RPO/RPO-A/Z/D	81
Truck, Utility	1
Truck, Light	3
Truck, Medium	9 *
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6
Trailer, Fuel (1,200-Liter)	1
Radio, VHF, Manpack, Low-Power	1

* RPO-equipped units may use IFVs or APCs, rather than trucks, for transportation.

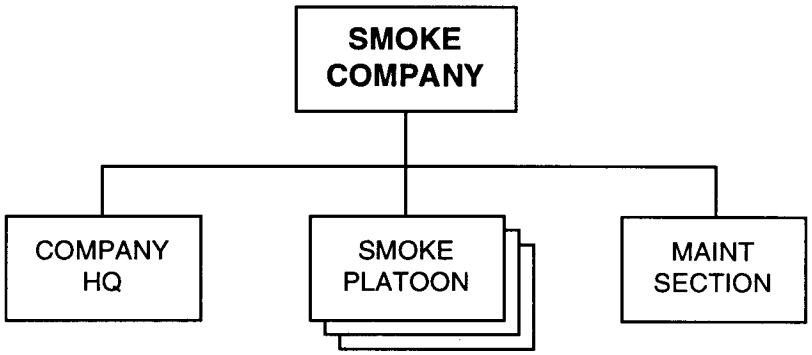
Smoke Battalion,
Army or Army Group or Chem Def Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Smoke Generator, TDA-M	27
Truck, Light	5
Truck, Medium	24
Truck, POL (5,000-Liter)	2
Van, Maintenance	5
Trailer, Cargo, 2-Axle	10
Trailer, Generator	3
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	2
Trailer, Water (1,200-Liter)	4
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	29
HF/VHF, Vehicle Mount, Medium-Power	1

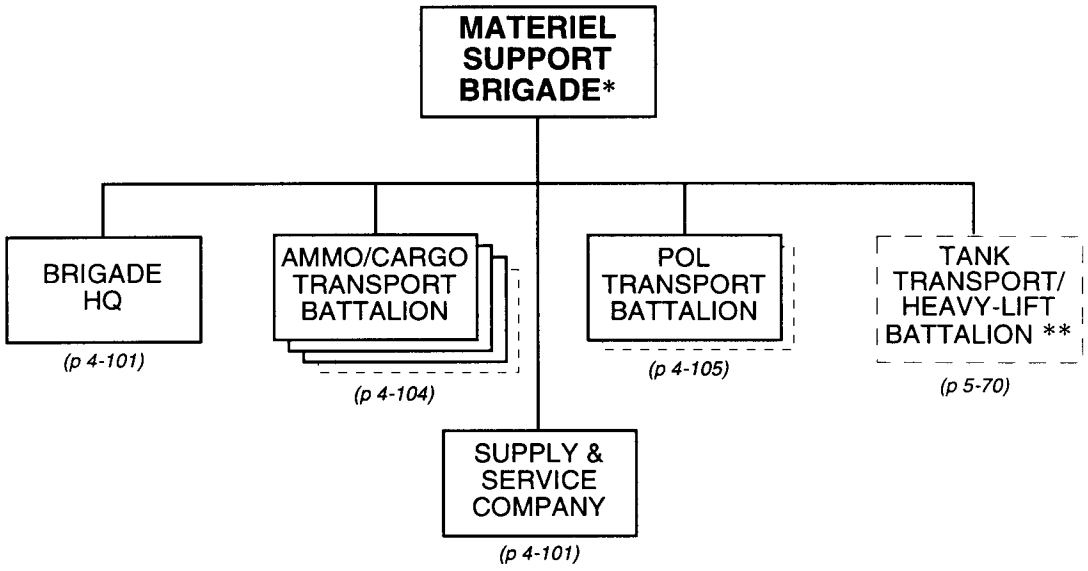
Smoke Company,
Smoke Bn or Chem Def Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Truck, Smoke Generator, TDA-M	9
Truck, Medium	4
Van, Maintenance	1
Trailer, Cargo, 2-Axle	2
Trailer, Water (1,200-Liter)	1
Trailer, Kitchen	1
Radio, VHF, Vehicle Mount, Medium-Power	9

Materiel Support Brigade, Army or Corps or Army Group



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* The numbers of ammunition/cargo transport and POL transport battalions can vary depending on the number of subordinate armies, corps, divisions, and/or separate brigades supported. The equipment totals here reflect three possible variants of the brigade structure. Variant 1 shows the smallest possible organization, with three ammunition/cargo transport battalions and one POL transport battalion. Variant 2 shows a medium-strength brigade with three ammunition/cargo transport battalions and two POL transport battalions. Variant 3 shows the largest possible brigade structure, with four ammunition/cargo transport battalions and two POL transport battalions.

** The General Staff may allocate an entire tank transport/heavy-lift regiment (p 5-68) to an army group. Such a regiment has three or four battalions equipped with heavy equipment transporters (HETs). The army group, in turn, may allocate the entire regiment to a subordinate army when the mission dictates. Alternatively, the army group may allocate a tank transport/heavy-lift battalion to a subordinate army or corps. In the latter case, the army or corps normally attaches the battalion to its organic materiel support brigade.

(continued)

Materiel Support Brigade, Army or Corps or Army Group (Variant 1) (continued)

Principal Items of Equipment	*Brigade HQ*	*Ammo/Cargo Transport Bn (x3)*	*POL Transport Bn*	*Supply & Service Co*	*TOTAL*
WEAPONS					
ATRL, RPG-22/26		33	14	2	49
SAM, Shoulder-Fired	3	9	3		15
TRUCKS					
Truck, Utility	2	15	5		22
Truck, Light		9	3	3	15
Truck, Medium		180		8	188
Truck, Heavy		360			360
Truck, Crane		12	1	1	14
Truck, POL (5,000-L)		12	80		92
Truck, POL (7,000-L)		24	160		184
Truck, Water (2,000-L)		18	6	6	30
Van, Kitchen		6	2	2	10
Van, Maintenance	1	33	11	10	55
Van, Mobile Field Bakery				4	4
Van, Signal	3	3	1		7
Ambulance		3	1	1	5
TRAILERS					
Trailer, Cargo, 1-Axle	2	12	4	2	20
Trailer, Cargo, 2-Axle		546	2	2	550
Trailer, Generator	1	18	6	6	31
Trailer, POL (4,200-L)		12	80		92
Trailer, POL (5,800-L)		24	160		184
Trailer, Water (900-/1,200-L)		9	3	6	18
RADIOS					
VHF, Manpack, Low-Power		9	3		12
HF, Manpack, Low-Power	1	3	1		5
HF/VHF, Vehicle Mount, Medium-Power	1	3	1		5
HF/VHF, Vehicle Mount, High-Power	1				1
Radio Relay, VHF/UHF	1				1
Warning Receiver	1	3	1		5

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Materiel Support Brigade, Army or Corps or Army Group (Variant 2) (continued)

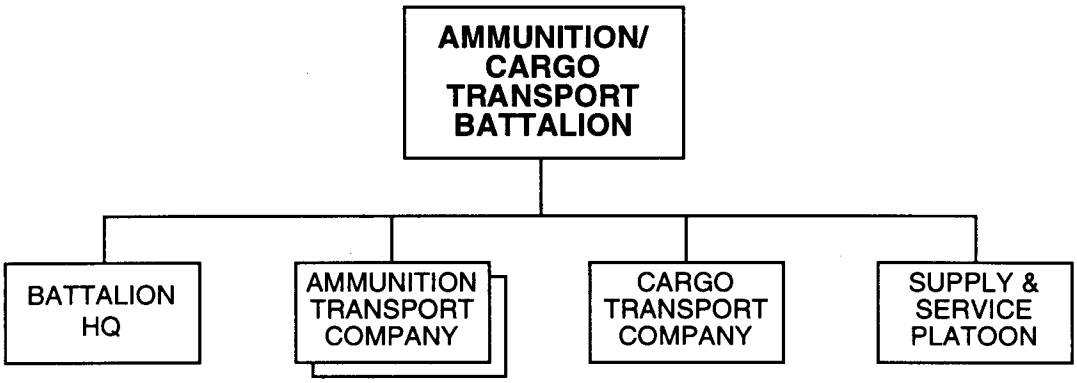
Principal Items of Equipment	*Brigade HQ*	*Ammo/Cargo Transport Bn (x3)*	*POL Transport Bn (x2)*	*Supply & Service Co*	*TOTAL*
WEAPONS					
ATRL, RPG-22/26		33	28	2	63
SAM, Shoulder-Fired	3	9	6		18
TRUCKS					
Truck, Utility	2	15	10		27
Truck, Light		9	6	3	18
Truck, Medium		180		8	188
Truck, Heavy		360			360
Truck, Crane		12	2	1	15
Truck, POL (5,000-L)		12	160		172
Truck, POL (7,000-L)		24	320		344
Truck, Water (2,000-L)		18	12	6	36
Van, Kitchen		6	4	2	12
Van, Maintenance	1	33	22	10	66
Van, Mobile Field Bakery				4	4
Van, Signal	3	3	2		8
Ambulance		3	2	1	6
TRAILERS					
Trailer, Cargo, 1-Axle	2	12	8	2	24
Trailer, Cargo, 2-Axle		546	4	2	552
Trailer, Generator	1	18	12	6	37
Trailer, POL (4,200-L)		12	160		172
Trailer, POL (5,800-L)		24	320		344
Trailer, Water (900-/1,200-L)		9	6	7	22
RADIOS					
VHF, Manpack, Low-Power		9	6		15
HF, Manpack, Low-Power	1	3	2		6
HF/VHF, Vehicle Mount, Medium-Power	1	3	2		6
HF/VHF, Vehicle Mount, High-Power	1				1
Radio Relay, VHF/UHF	1				1
Warning Receiver	1	3	2		6

(continued)

Materiel Support Brigade, Army or Corps or Army Group (Variant 3) (continued)

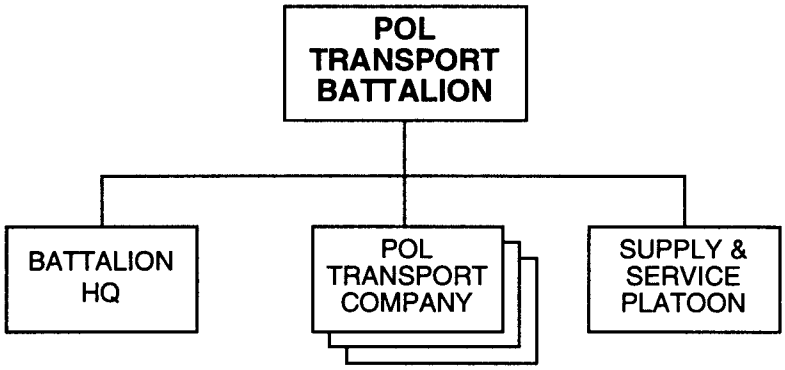
Principal Items of Equipment	*Brigade HQ*	*Ammo/Cargo Transport Bn (x4)*	*POL Transport Bn (x2)*	*Supply & Service Co*	*TOTAL*
WEAPONS					
ATRL, RPG-22/26		44	28	2	74
SAM, Shoulder-Fired	3	12	6		21
TRUCKS					
Truck, Utility	2	20	10		32
Truck, Light		12	6	3	21
Truck, Medium		240		8	248
Truck, Heavy		480			480
Truck, Crane		16	2	1	19
Truck, POL (5,000-L)		16	160		176
Truck, POL (7,000-L)		32	320		352
Truck, Water (2,000-L)		24	12	6	42
Van, Kitchen		8	4	2	14
Van, Maintenance	1	44	22	10	77
Van, Mobile Field Bakery				4	4
Van, Signal	3	4	2		9
Ambulance		4	2	1	7
TRAILERS					
Trailer, Cargo, 1-Axle	2	16	8	2	28
Trailer, Cargo, 2-Axle		728	4	2	734
Trailer, Generator	1	24	12	6	43
Trailer, POL (4,200-L)		16	160		176
Trailer, POL (5,800-L)		32	320		352
Trailer, Water (900-/1,200-L)		12	6	7	25
RADIOS					
VHF, Manpack, Low-Power		12	6		18
HF, Manpack, Low-Power	1	4	2		7
HF/VHF, Vehicle Mount, Medium-Power	1	4	2		7
HF/VHF, Vehicle Mount, High-Power	1				1
Radio Relay, VHF/UHF	1				1
Warning Receiver	1	4	2		7

Ammunition/Cargo Transport Battalion, Mat Spt Bde



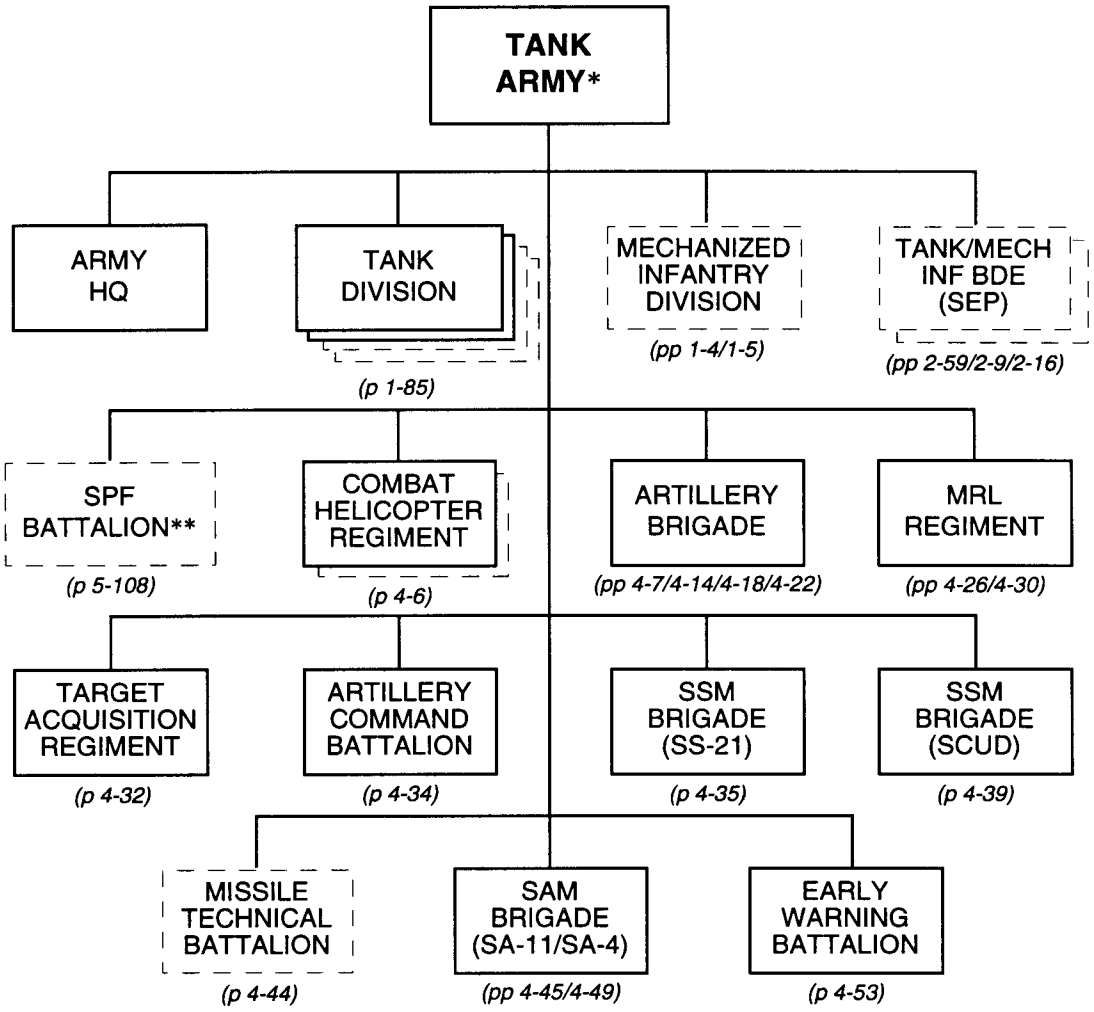
Principal Items of Equipment	*Battalion HQ*	*Ammo Transport Co (2x)*	*Cargo Transport Co*	*Supply & Service Plt*	*TOTAL*
WEAPONS					
ATRL, RPG-22/26		6	3	2	11
SAM, Shoulder-Fired	3				3
TRUCKS					
Truck, Utility	2	2	1		5
Truck, Light				3	3
Truck, Medium		40	20		60
Truck, Heavy		80	40		120
Truck, Crane		2	1	1	4
Truck, POL (5,000-L)				4	4
Truck, POL (7,000-L)				8	8
Truck, Water (2,000-L)				6	6
Van, Kitchen				2	2
Van, Maintenance	1			10	11
Van, Signal	1				1
Ambulance				1	1
TRAILERS					
Trailer, Cargo, 1-Axle	2			2	4
Trailer, Cargo, 2-Axle		120	60	2	182
Trailer, Generator				6	6
Trailer, POL (4,200-L)				4	4
Trailer, POL (5,800-L)				8	8
Trailer, Water (900-/1,200-L)				3	3
RADIOS					
VHF, Manpack, Low-Power		2	1		3
HF, Manpack, Low-Power	1				1
HF/VHF, Vehicle Mount, Medium-Power	1				1
Warning Receiver	1				1

POL Transport Battalion, Mat Spt Bde



Principal Items of Equipment	*Battalion HQ*	*POL Transport Co (x3)*	*Supply & Service Plt*	*TOTAL*
WEAPONS				
ATRL, RPG-22/26		12	2	14
SAM, Shoulder-Fired	3			3
TRUCKS				
Truck, Utility	2	3		5
Truck, Light			3	3
Truck, Crane			1	1
Truck, POL (5,000-L)		80		80
Truck, POL (7,000-L)		160		160
Truck, Water (2,000-L)			6	6
Van, Kitchen			2	2
Van, Maintenance	1		10	11
Van, Signal	1			1
Ambulance			1	1
TRAILERS				
Trailer, Cargo, 1-Axle	2		2	4
Trailer, Cargo, 2-Axle			2	2
Trailer, Generator			6	6
Trailer, POL (4,200-L)		80		80
Trailer, POL (5,800-L)		160		160
Trailer, Water (900-/1,200-L)			3	3
RADIOS				
VHF, Manpack, Low-Power		3		3
HF, Manpack, Low-Power	1			1
HF/VHF, Vehicle Mount, Medium-Power	1			1
Warning Receiver	1			1

Tank Army



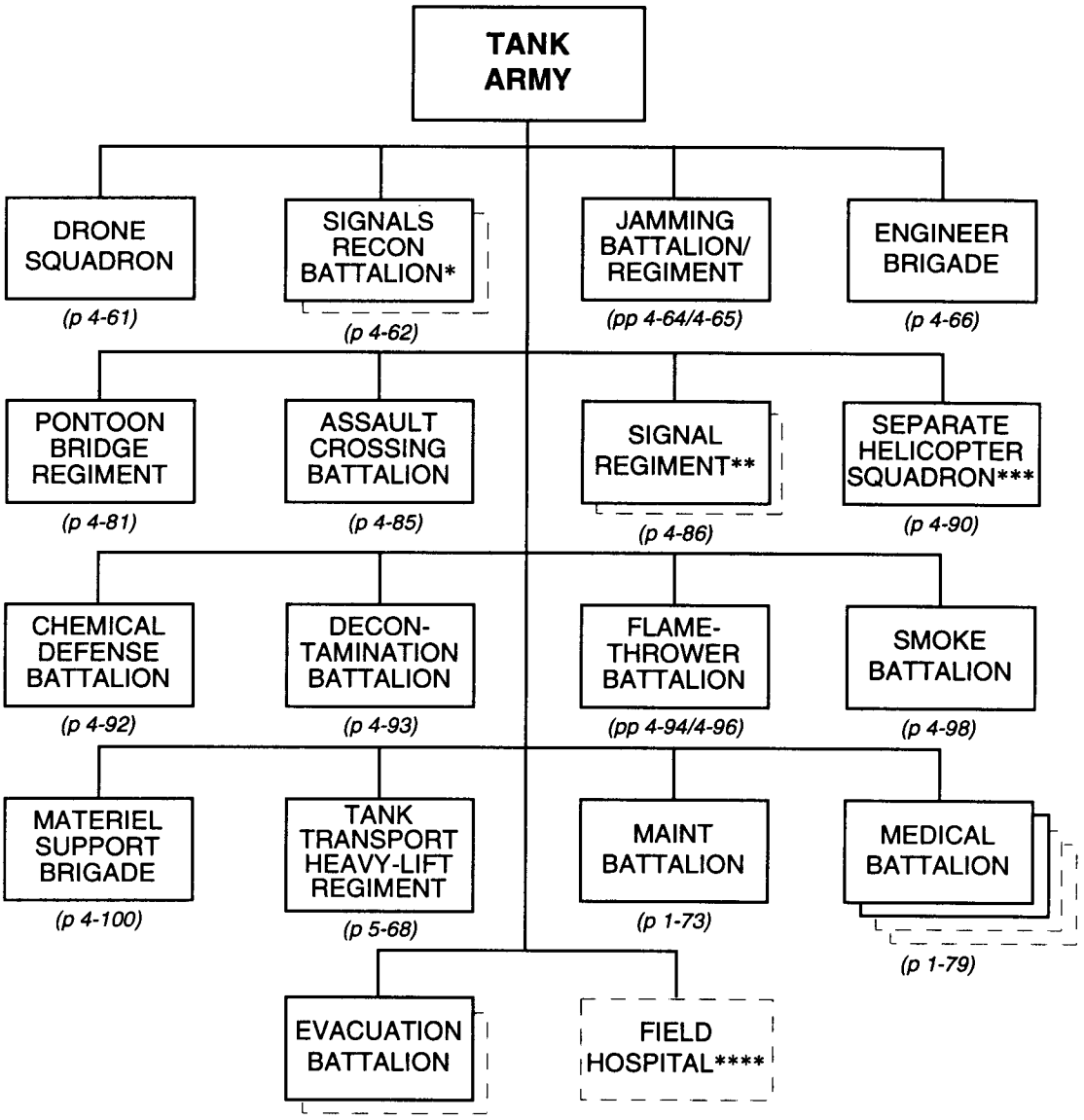
(continued)

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* A typical tank army has two to five divisions, with four being the most common. These generally include at least two tank divisions and no more than one mechanized infantry division. In lieu of one or two of these divisions, the army may have one or two separate tank or mechanized infantry brigades.

** The Main Intelligence Directorate of the General Staff controls all special-purpose forces (SPF). It may allocate up to a battalion of SPF to support the operations of an army.

Tank Army (continued)



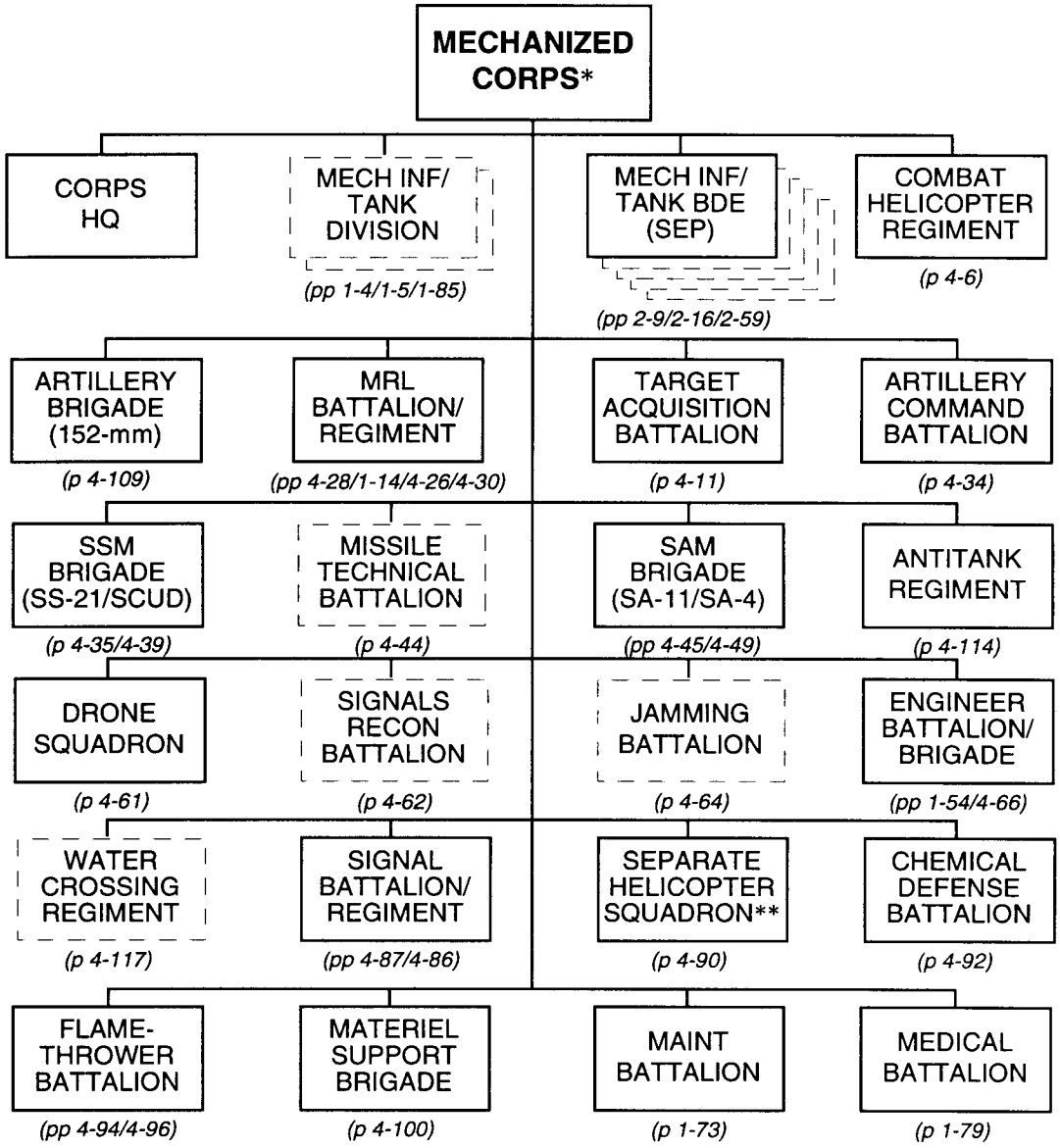
* Instead of one or two signals reconnaissance battalions, an army may have a signals reconnaissance regiment (p 4-63).

** In lieu of a signal regiment, an army may get its communications support from separate battalions. These may include a signal battalion (p 4-87), a radio relay battalion (p 4-88), and/or a troposcatter battalion (p 4-89).

*** Some armies may have a mixed aviation squadron (p 4-91) instead of a separate helicopter squadron.

**** The field hospital is an army group asset allocated to some armies.

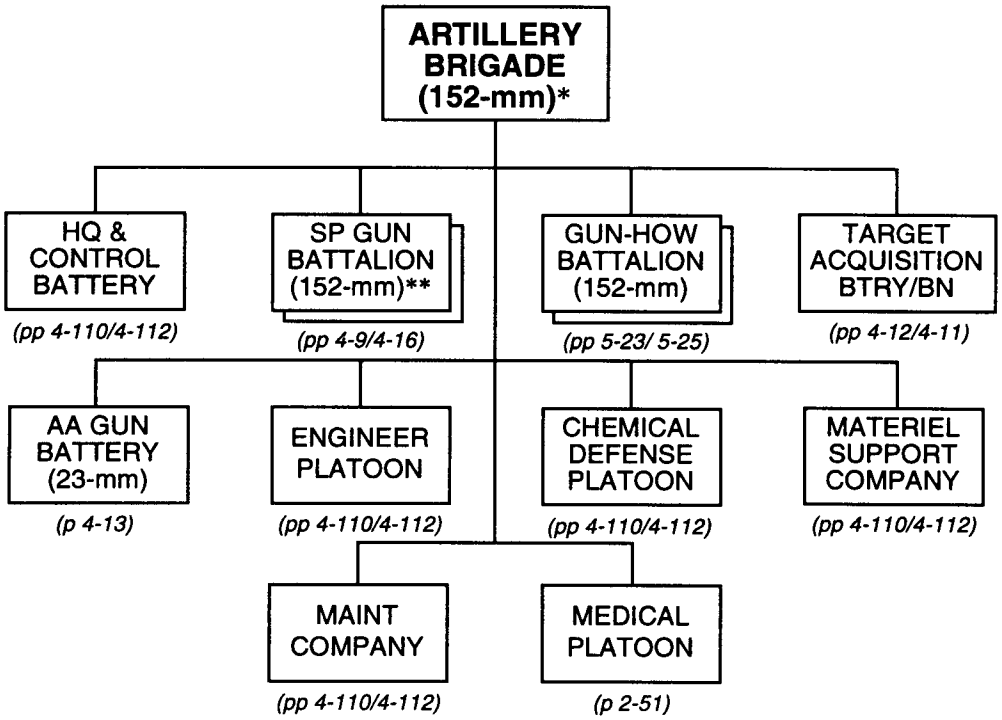
Mechanized Corps



* A typical mechanized corps has one or two divisions and perhaps one or two separate mechanized infantry or tank brigades. The divisions are most likely to be mechanized infantry divisions. It is also possible that some corps could consist entirely of separate brigades rather than divisions. In this case, there could be three to five separate brigades. These are most likely to be separate mechanized infantry brigades.

** Some corps may have a mixed aviation squadron (p 4-91) instead of a separate helicopter squadron.

152-mm Artillery Brigade, Corps



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* An artillery brigade has either four 18-tube battalions (p 4-110) or four 24-tube battalions (p 4-112). Other combinations of SP gun and gun-howitzer battalions are possible. Some brigades may consist entirely of the SP gun battalions. In any case, the four-battalion structure could bear the designation artillery regiment (rather than brigade).

** Instead of SP gun battalions, some brigades may have gun battalions equipped with the towed 152-mm field gun, 2A36 (pp 4-20 or 4-24).

(continued)

152-mm Artillery Brigade, Corps (4 x 18-Tube Battalion) (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x2)*	*152-mm Gun-How Bn (x2)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Platoon*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES											
APC, BTR-60/70/80	1										1
ACV, BTR (R-145BM)	2			1							3
Chemical Recon Vehicle, BRDM-2RKh	1						3				4
APC, Radar, MT-LB (SNAR-10)*				1							1
APC, Radar, MT-LB (ARK-1)**				1							1
Mobile Recon Post, PRP-3/4***	1	2	2	1							6
ACRV, 1V13/1V13M/1V22 (Btry FDC)		6									6
ACRV, 1V14/1V14M/1V23 (Btry COP)		6									6
ACRV, 1V15/1V15M/1V24 (Bn COP)		2									2
ACRV, 1V16/1V16M/1V25 (Bn FDC)		2									2
ACRV, 1V18/1V152, (Battery COP)****			6								6
ACRV, 1V19/1V152, (Battalion COP)****			2								2
Armored Recovery Vehicle									1		1
WEAPONS											
152-mm SP Gun, 2S5		36									36
152-mm Gun-Howitzer, D-20 or 2A65			36								36
23-mm AA Gun, ZU-23					8						8
ATGL, RPG-7V	4	12	12						4		32
SAM, Shoulder-Fired	3	36	36								75
ENGINEER EQUIPMENT											
Route-Clearing Vehicle, BAT/PKT						2					2
Ditching Machine, BTM/MDK						2					2
TRUCKS											
ACRV, 1V110/1V153 (Battery FDC)****			6								6
ACRV, 1V111/1V153 (Battalion FDC)****			2								2
Truck, Utility	6		2		1	1		1	1		12
Truck, Light	2		18	2	8	6		1		1	38
Truck, Medium	1	40	74	4				45	3	2	169
Truck, Crane						1					1
Truck, Crane Shovel						1					1
Truck, Decon, ARS-12U/14							3				3
Truck, Decon, DDA-53/66							1			1	2
Truck, Dump						1					1
Truck, POL (5,000-L)		8	4					8			20
Truck, Water (2,000-L)							2				2
Van, Hospital										1	1
Van, Maintenance	1	4	2	4				2	6		19
Van, Signal	2	8	8								18
Van, Survey				1							1
Ambulance		2	2							4	8

* This system includes the BIG FRED battlefield surveillance radar.
** This system includes the RICE BAG countermortar/counterbattery radar.
*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
**** The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

(continued)

152-mm Artillery Brigade, Corps (4 x 18-Tube Battalion) (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x2)*	*152-mm Gun-How Bn (x2)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRAILERS											
Trailer, Cargo, 1-Axle				1		1					2
Trailer, Cargo, 2-Axle	1	34	34					30	3		102
Trailer, Generator	2	4	4	2		1			2		15
Trailer, Kitchen	1	6	8	1						1	17
Trailer, Meteorological*				1							1
Trailer, POL (4,200-L)		8	4					8			20
Trailer, Water (900-/1,200-L)	1	2	2	1			2	2		1	11
RADIOS											
VHF, Manpack, Low-Power	6	20	28	13	3			1	1	1	73
VHF, Portable, Low-Power	1		46								47
VHF, Vehicle Mount, Medium-Power	5	54	18	4		4	3				88
HF, Manpack, Low-Power	1					1	1				3
HF, Vehicle Mount, Medium-Power	5										5
HF/VHF, Vehicle Mount, Medium-Power	3	8	8								19
HF/VHF, Vehicle Mount, High-Power	1										1
Radio Relay, VHF/UHF	1										1
Warning Receiver	1	4	4	1	1						11
MISCELLANEOUS											
Sound-Ranging Set				1							1
Rangefinder, Laser	1	14	14	2							31
Rangefinder, Laser, Binocular		18	18								36
Periscopic Aiming Circle	1	12	12	2							27
Night-Vision Sight (Aiming Circle)	1	12	12	2							27
GPS Receiver	1	64	64	4							133

* This trailer carries the END TRAY meteorological radar.

(continued)

152-mm Artillery Brigade, Corps (4 x 24-Tube Battalion) (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x2)*	*152-mm Gun-How Bn (x2)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Platoon*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES											
APC, BTR-60/70/80	1										1
ACV, BTR (R-145BM)	2			1							3
Chemical Recon Vehicle, BRDM-2RKh	1						3				4
APC, Radar, MT-LB (SNAR-10)*				1							1
APC, Radar, MT-LB (ARK-1)**				1							1
Mobile Recon Post, PRP-3/4***	1	2	2	1							6
ACRV, 1V13/1V13M/1V22 (Btry FDC)		12									12
ACRV, 1V14/1V14M/1V23 (Btry COP)		6									6
ACRV, 1V15/1V15M/1V24 (Bn COP)		2									2
ACRV, 1V16/1V16M/1V25 (Bn FDC)		2									2
ACRV, 1V18/1V152, (Battery COP)****			6								6
ACRV, 1V19/1V152, (Battalion COP)****			2								2
Armored Recovery Vehicle									1		1
WEAPONS											
152-mm SP Gun, 2S5		48									48
152-mm Gun-Howitzer, D-20 or 2A65			48								48
23-mm AA Gun, ZU-23					8						8
ATGL, RPG-7V	4	12	12						4		32
SAM, Shoulder-Fired	3	48	48								99
ENGINEER EQUIPMENT											
Route-Clearing Vehicle, BAT/PKT						2					2
Ditching Machine, BTM/MDK						2					2
TRUCKS											
ACRV, 1V110/1V153 (Battery FDC)****			12								12
ACRV, 1V111/1V153 (Battalion FDC)****			2								2
Truck, Utility	6		2		1	1		1	1		12
Truck, Light	2		18	2	8	6		1		1	38
Truck, Medium	1	46	86	4				45	3	2	187
Truck, Crane						1					1
Truck, Crane Shovel						1					1
Truck, Decon, ARS-12U/14							3				3
Truck, Decon, DDA-53/66							1			1	2
Truck, Dump						1					1
Truck, POL (5,000-L)		8	4					8			20
Truck, Water (2,000-L)							2				2
Van, Hospital										1	1
Van, Maintenance	1	4	2	4				2	6		19
Van, Signal	2	8	8								18
Van, Survey				1							1
Ambulance		2	2							4	8

* This system includes the BIG FRED battlefield surveillance radar.
** This system includes the RICE BAG countermortar/counterbattery radar.
*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
**** The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

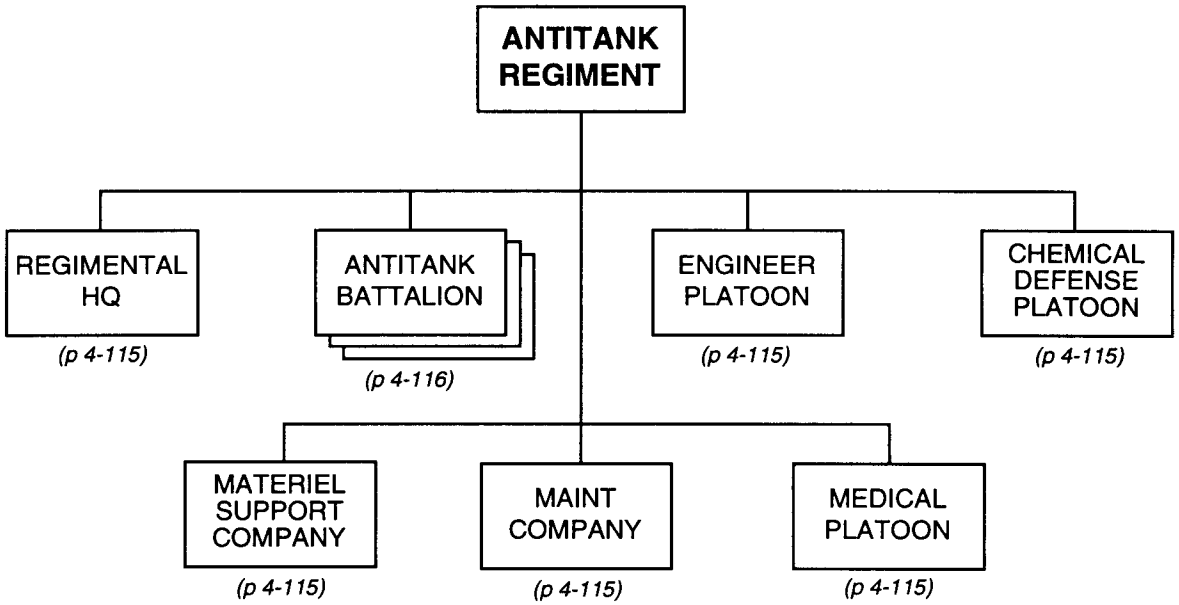
(continued)

152-mm Artillery Brigade, Corps (4 x 24-Tube Battalion) (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm SP Gun Bn (x2)*	*152-mm Gun-How Bn (x2)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRAILERS											
Trailer, Cargo, 1-Axle				1		1					2
Trailer, Cargo, 2-Axle	1	42	34					30	3		110
Trailer, Generator	2	4	4	2		1			2		15
Trailer, Kitchen	1	6	8	1						1	17
Trailer, Meteorological*				1							1
Trailer, POL (4,200-L)		8	4					8			20
Trailer, Water (900-/1,200-L)	1	2	2	1			2	2		1	11
RADIOS											
VHF, Manpack, Low-Power	6	20	28	13	3			1	1	1	73
VHF, Portable, Low-Power	1		58								59
VHF, Vehicle Mount, Medium-Power	5	66	18	4		4	3				100
HF, Manpack, Low-Power	1					1	1				3
HF, Vehicle Mount, Medium-Power	5										5
HF/VHF, Vehicle Mount, Medium-Power	3	8	8								19
HF/VHF, Vehicle Mount, High-Power	1										1
Radio Relay, VHF/UHF	1										1
Warning Receiver	1	4	4	1	1						11
MISCELLANEOUS											
Sound-Ranging Set				1							1
Rangefinder, Laser	1	14	14	2							31
Rangefinder, Laser, Binocular		18	18								36
Periscopic Aiming Circle	1	12	12	2							27
Night-Vision Sight (Aiming Circle)	1	12	12	2							27
GPS Receiver	1	76	76	4							157

* This trailer carries the END TRAY meteorological radar.

Antitank Regiment, Mechanized Corps



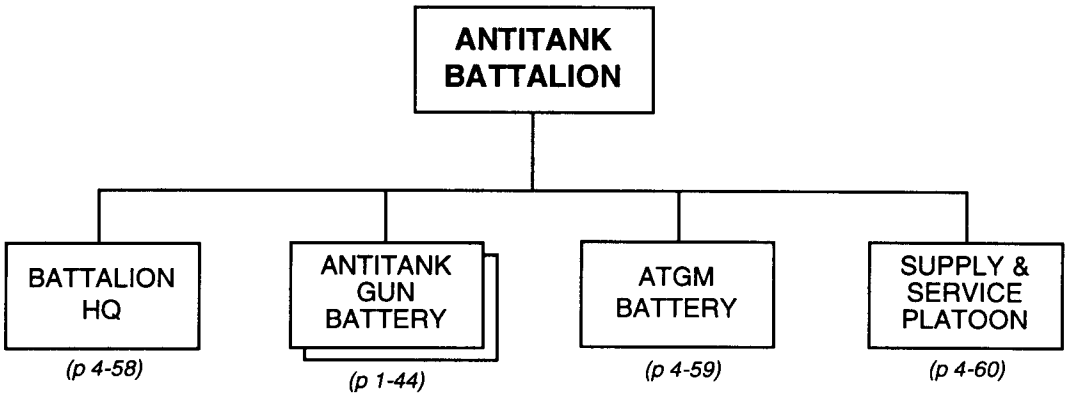
(continued)

Antitank Regiment, Mechanized Corps (continued)

Principal Items of Equipment	*Regimental HQ*	*Antitank Bn (x3)*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES								
ACV, MT-LBu	1	15						16
Prime Mover, MT-LBT		42						42
Chemical Recon Vehicle, BRDM-2RKh/RKhM				3				3
Mobile Recon Post, PRP-3/4*	1	3						4
Armored Recovery Vehicle						1		1
WEAPONS								
125/100-mm AT Gun, 2A45/MT-12		36						36
ATGM Vehicle, 9P149 w/ AT-6/SPIRAL		27						27
ATGL, RPG-7V		27				4		31
ENGINEER EQUIPMENT								
Route-Clearing Vehicle, BAT/PKT			2					2
Ditching Machine, BTM/MDK			2					2
TRUCKS								
Truck, Utility	2	9	1		1	1		14
Truck, Light		12	6		1		1	20
Truck, Medium		36			30	3	2	71
Truck, Crane Shovel			2					2
Truck, Decon, ARS-12U/14				3				3
Truck, Decon, DDA-53/66				1			1	2
Truck, Dump			1					1
Truck, POL (5,000-L)		9			6			15
Truck, Water (2,000-L)				2				2
Van, Hospital							1	1
Van, Maintenance		6			2	6		14
Van, Signal		6						6
Ambulance		3					4	7
TRAILERS								
Trailer, Cargo, 1-Axle			1					1
Trailer, Cargo, 2-Axle		30			20	3		53
Trailer, Generator		3	1			2		6
Trailer, Kitchen		3					1	4
Trailer, POL (4,200-L)		6			6			12
Trailer, POL (1,200-L)		3						3
Trailer, Water (900/1,200-L)		3		2	2		1	8
RADARS								
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		9						9
RADIOS								
VHF, Manpack, Low-Power	1	30			1	1	1	34
VHF, Vehicle Mount, Medium-Power	2	87	4	3				96
HF, Manpack, Low-Power			1	1				2
HF, Vehicle Mount, Medium-Power	1	3						4
HF/VHF, Vehicle Mount, Medium-Power	2	9						11
Radio Relay, VHF/UHF	1	3						4
Warning Receiver	1	3						4
MISCELLANEOUS								
Rangefinder, Laser		9						9

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

Antitank Battalion, AT Regt, Mechanized Corps



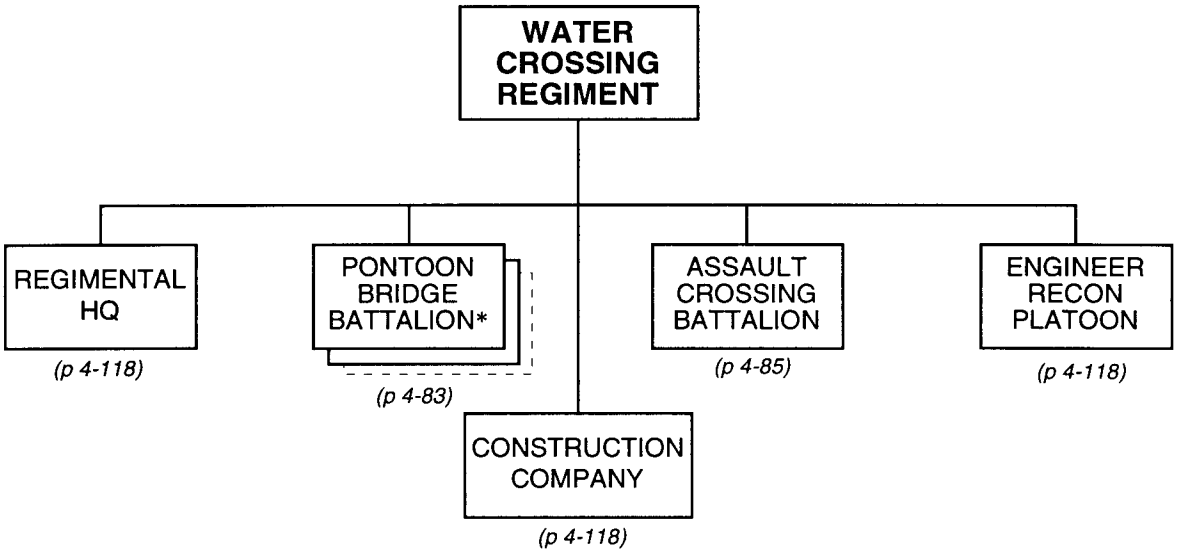
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM Vehicle, 9P149 w/ AT-6/SPIRAL	9
125/100-mm Antitank Gun, 2A45M/MT-12	12
ATGL, RPG-7V	9
ACV, MT-LBu	5
Prime Mover, MT-LBT	14
Mobile Recon Post, PRP-3/4*	1
Truck, Utility	3
Truck, Light	4
Truck, Medium	12
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	10
Trailer, Generator	1

Equipment	Total
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	2
Trailer, POL (1,200-Liter)	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	3
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	3
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	29
HF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	3
Radio Relay, VHF/UHF	1
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

Water Crossing Regiment, Corps



* Equipment totals are for a regiment with two pontoon bridge battalions. If the regiment has a third pontoon bridge battalion, it may not have the assault crossing battalion shown here.

(continued)

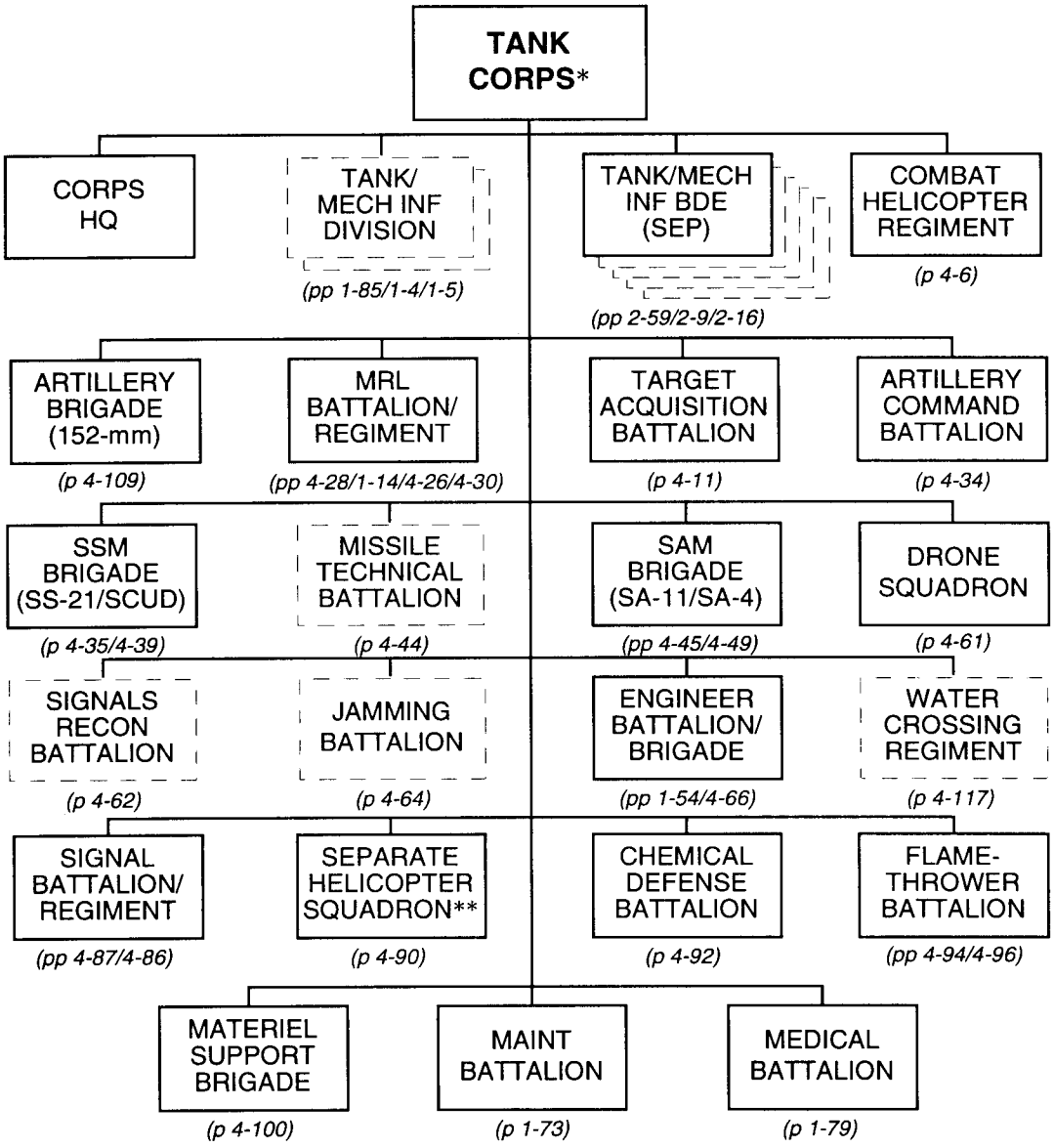
Water Crossing Regiment, Corps (continued)

Principal Items of Equipment	*Regimental HQ*	*Pontoon Bridge Bn (x2)*	*Assault Crossing Bn*	*Engineer Recon Plt*	*Constuction Co*	*Supply & Service Co*	*TOTAL*
ARMORED VEHICLES							
ACV, BRDM-2U	1	6	7				14
APC, BTR-60/70/80				3			3
Armored Recovery Vehicle		6	3				9
WEAPONS							
SAM, Shoulder-Fired	3	18	3				24
ENGINEER EQUIPMENT							
Engineer Recon Vehicle, IRM		4	3	2			9
Armored Engineer Tractor, IMR			3				3
Ditching Machine, BTM/MDK			3		4		7
Route-Clearing Vehicle, BAT			3		4		7
Mine Detector, DIM				1			1
Bridge, Truck-Launched					4		4
Tracked Amphibian, K-61/PTS			36				36
Trailer, Amphibious, PKP			18				18
Tracked Ferry, PMM-2*			72				72
Bridge, PMP Center**		64					64
Bridge, PMP Ramp**		8					8
Powerboat**		24					24
TRUCKS							
Truck, Utility	2	12	2	2	1	1	20
Truck, Light	1					3	4
Truck, Medium		8	10	1	13	4	36
Truck, Heavy**		24			5		29
Truck, Crane			3			1	4
Truck, Crane Shovel					2		2
Truck, Dump					1		1
Truck, POL (5,000-L)		8	18			1	27
Truck, Recovery						1	1
Truck, Water (2,000-L)		2					2
Van, Command	3						3
Van, Kitchen		2				1	3
Van, Maintenance	1	8				3	12
Van, Medium	1	2					3
Van, Signal	1	2					3
Ambulance		2				1	3
TRAILERS							
Trailer, Cargo, 1-Axle	1	2					3
Trailer, Cargo, 2-Axle		2	5		2	1	10
Trailer, Generator	1	6			1		8
Trailer, Kitchen		6	1		1		8
Trailer, POL (1,200-L)				2			2
Trailer, POL (4,200-L)		8	18			1	27
Trailer, Water (900-L)		6	1		1	1	9
RADIOS							
VHF, Manpack, Low-Power	5	8	4			1	18
VHF, Vehicle Mount, Medium-Power		22	32	5	8		67
HF, Manpack, Low-Power		6	1	3	1		11
HF/VHF, Vehicle Mount, Medium-Power	4	4					8
HF/VHF, Vehicle Mount, High-Power	1	2					3
Radio Relay, VHF/UHF	1						1
Warning Receiver	1	2	1				4

* With the GSP, 108 half-ferry vehicles form 54 ferries; with the PMM-2, there is only one vehicle per ferry.

** The PMM-2 amphibious bridge/ferry system may replace the PMP pontoon bridge. With the PMM-2, there is no need for powerboats or the heavy trucks that carry or tow them.

Tank Corps



---

* A typical tank corps has one or two divisions and perhaps one or two separate tank or mechanized infantry brigades. The divisions are most likely to be tank divisions. It is also possible that some corps could consist entirely of separate brigades rather than divisions. In this case, there could be three to five separate brigades. These are the most likely to be separate tank brigades.

** Some corps may have a mixed aviation squadron (p 4-91) instead of a separate helicopter squadron.

Chapter 5
Army Groups and National Asset Pool

The army group is the largest operational-level force grouping. The OPFOR General Staff activates and organizes such forces to conduct the major ground maneuver component of a specific strategic operation within a theater. An army group has no fixed organization. Its composition depends on its mission within the context of the overall strategic operation. Most of the ground maneuver divisions assigned to an army group are subordinate to armies or corps. However, some divisions and separate brigades may remain independent of an army or corps and directly subordinate to the army group. The numbers of armies, corps, divisions, and separate brigades can vary widely from one army group to another. In addition to these ground maneuver forces, an army group normally has an air army.

Many of the army group's combat support elements are not organic assets. The General Staff allocates them to the army group from a national asset pool (also known as the Reserve of the Supreme High Command). The combat service support and rear services structure of the army group must meet all logistics support requirements, including the augmentation of subordinate maneuver forces.

An army group typically includes a special-purpose forces (SPF) brigade allocated from the Directorate of Military Intelligence of the General Staff. If required, the army group may also include airborne forces and naval infantry forces. Other forces from the Reserve of the Supreme High Command may provide support to the army group; these could include strategic missile forces, strategic air armies, and naval forces.

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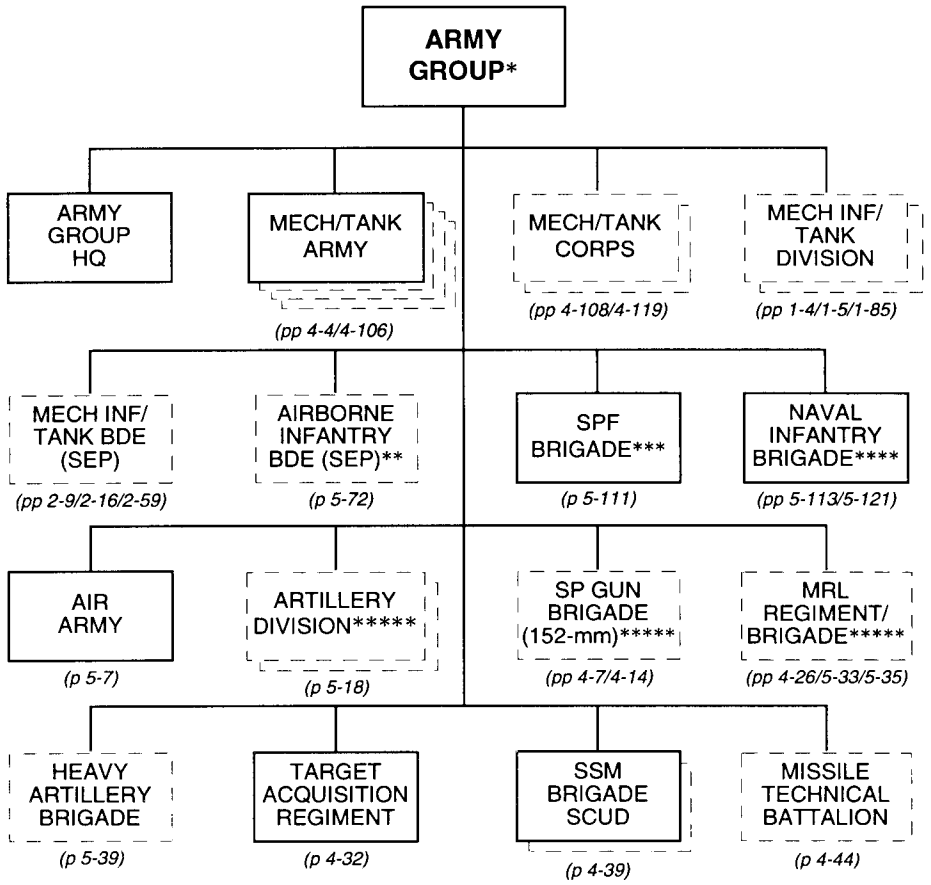
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Army Group



(continued)

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* There is no fixed organization for an army group. A typical army group may contain one to four mechanized or tank armies. In lieu of some of these armies, it may have one or two mechanized or tank corps. However, some army groups may only have the smaller corps organizations. Some may also include separate mechanized infantry or tank brigades or mechanized infantry or tank divisions that are not part of a corps or an army. An army group may also have some divisions or separate brigades of motorized infantry. (See p 1-86 and FM 100-63.) It may even have enough motorized infantry units to constitute an infantry army or corps.

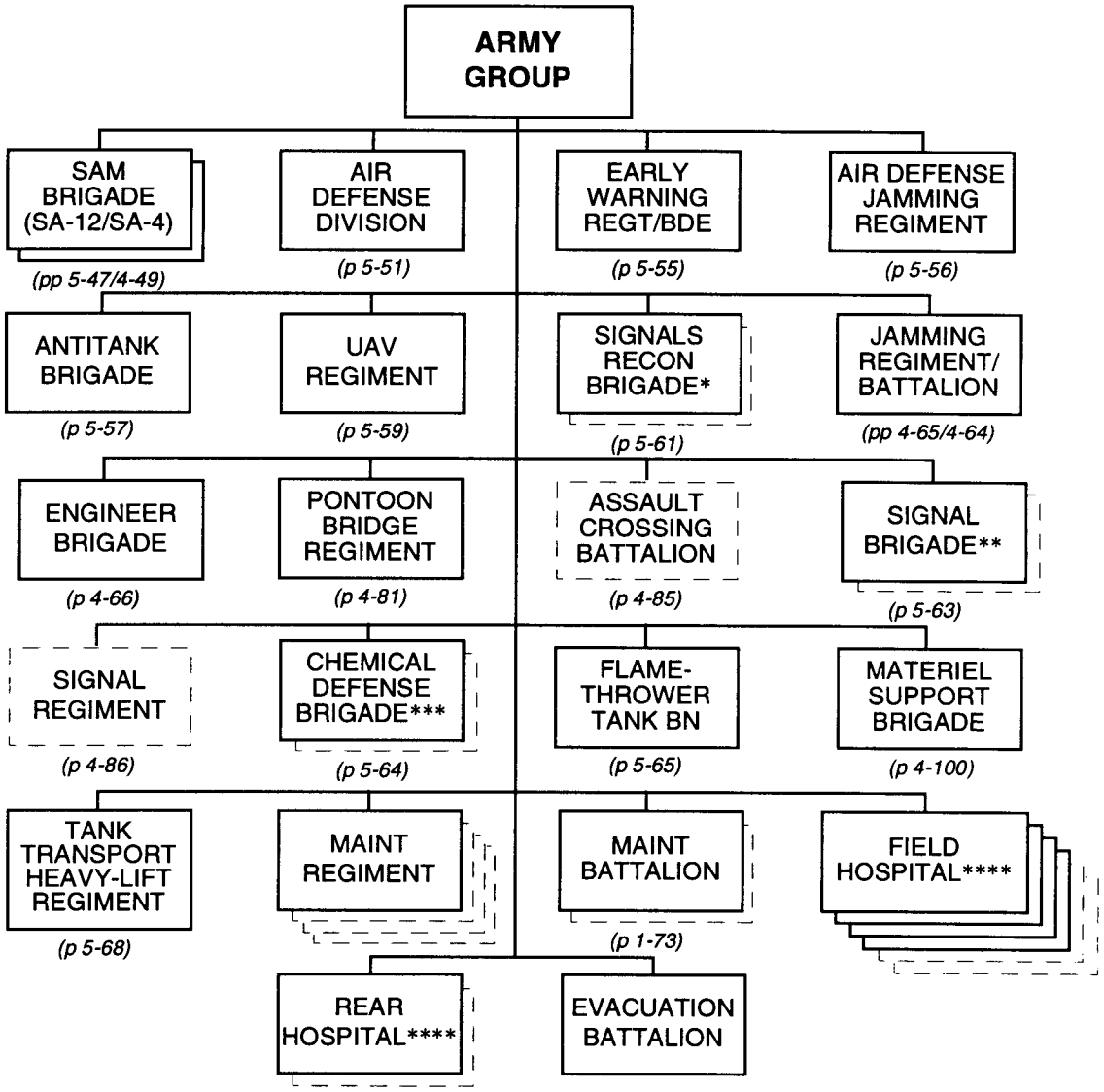
** Airborne forces are not organic to an army group. However, a separate airborne infantry brigade may be under operational control of an army group. Higher command may allocate additional forces from an airborne division (p 5-87) to support an army group in a given operation; these are normally brigade-size elements (p 5-89).

*** The Main Intelligence Directorate of the General Staff controls all special-purpose forces (SPF). It normally allocates an SPF brigade to support the operations of an army group.

**** Higher command may allocate a naval infantry brigade to support an army group in a given operation.

***** Some army groups could have an artillery division or perhaps even two of them. If an army group has no more than one artillery division, it may also have a separate SP gun brigade and/or a separate MRL regiment or brigade.

Army Group (continued)



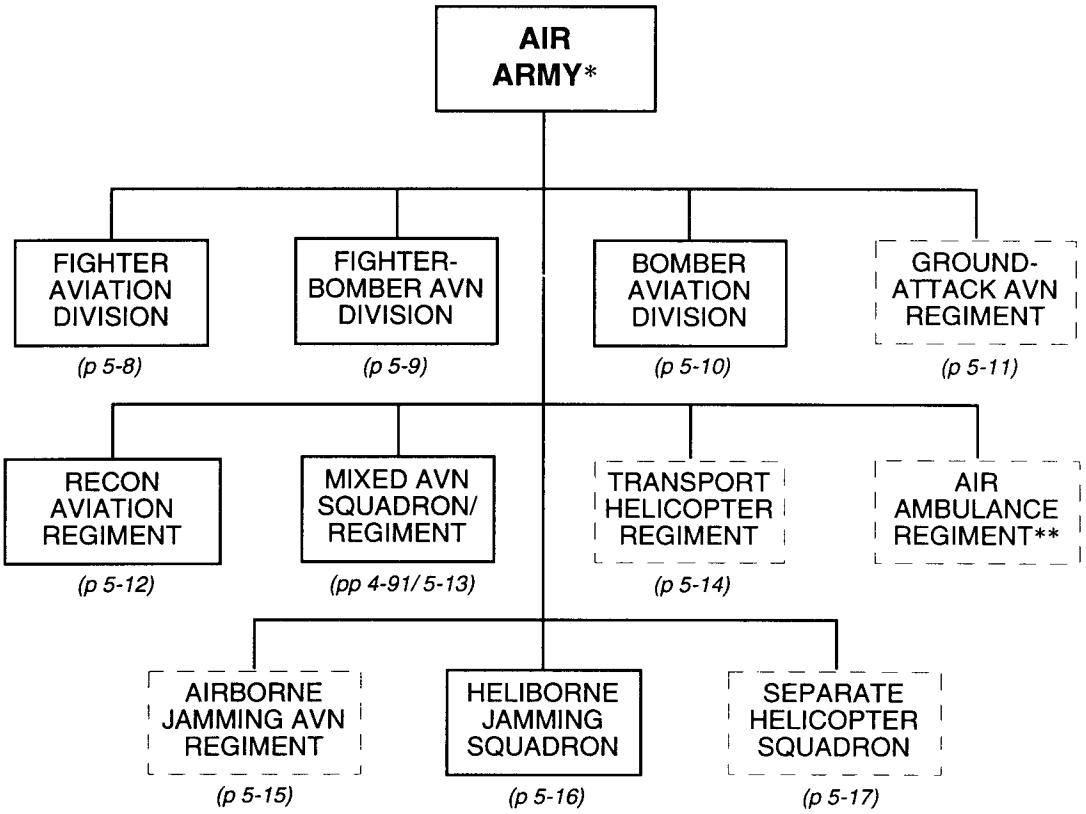
* An army group may have one or even two signals reconnaissance brigades. In lieu of a second brigade, it may have a signals reconnaissance regiment (p 4-63) or a separate signals reconnaissance battalion (p 4-62).

** In lieu of or in addition to a signal brigade or regiment, an army group may receive communications support from separate battalions. These may include one or two signal battalions (p 4-87), a radio relay battalion (p 4-88), and/or a troposcatter battalion (p 4-89).

*** In lieu of a chemical defense brigade, an army group may have separate battalions of the same types that normally comprise such a brigade.

**** Field hospitals are army group assets that support the operations of first-echelon armies or corps. Rear hospitals operate in the army group rear area.

Air Army, Army Group

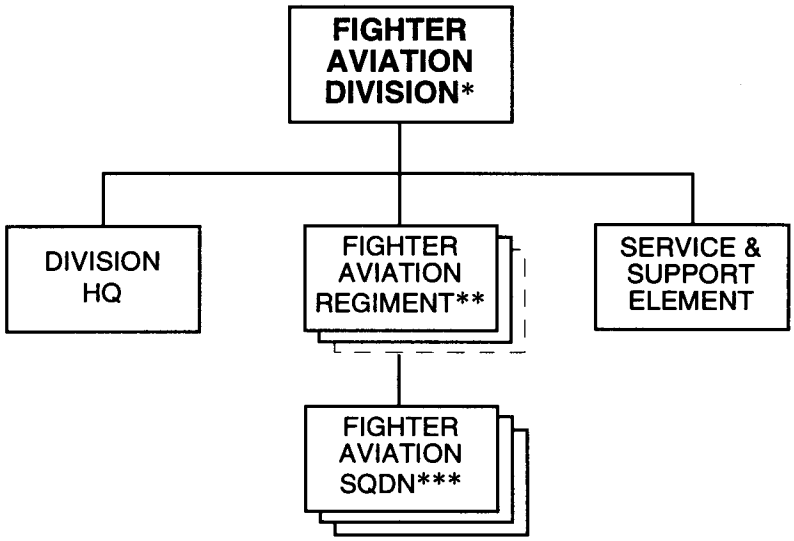


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* An air army has no fixed organization and may tailor its structure to meet specific needs of the ground forces within the supported army group. The numbers of aircraft can vary greatly, even down to the squadron level. Units with ***aviation*** (AVN) in their name generally consist of fixed-wing aircraft.

** This regiment normally has about 15 Mi-8T/HIP C or Mi-8MT(Mi-17)/HIP H medium helicopters equipped as air ambulances.

Fighter Aviation Division, Air Army

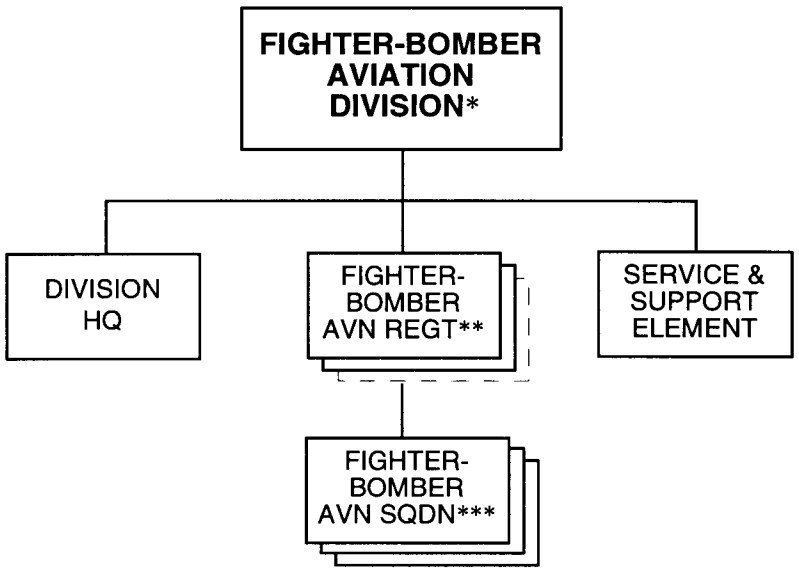


* In lieu of one of the fighter aviation regiments, some fighter aviation divisions may have a fighter-bomber aviation regiment equipped with the Su-17/FITTER D/H.

** The fighter aviation regiments of this division normally have the MiG-23/FLOGGER B/G or MiG-29/FULCRUM A, plus a number of MiG-23UB trainers that can also serve as combat aircraft. Alternatively, some of these regiments may have the Su-27/FLANKER B, plus Su-27UB trainers.

*** Each squadron normally has 12 aircraft. This total includes up to two training aircraft per squadron that can also serve as combat aircraft.

Fighter-Bomber Aviation Division, Air Army



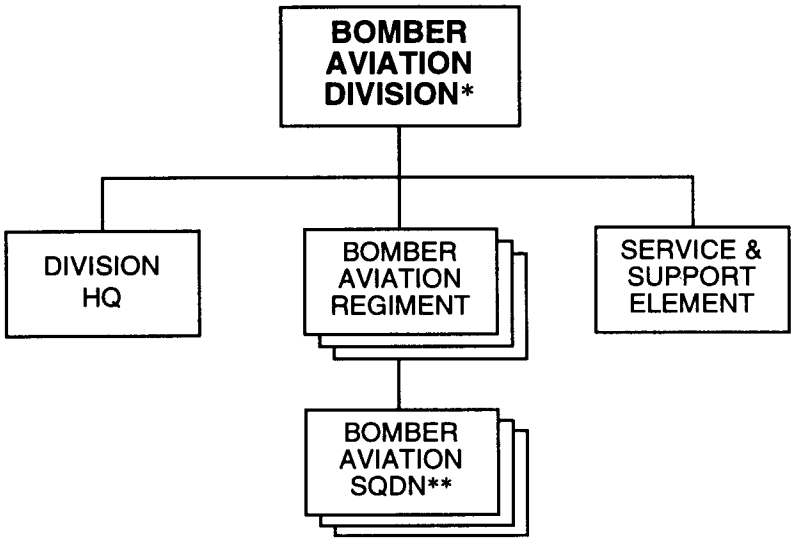
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* In lieu of one of the fighter-bomber aviation regiments, some fighter-bomber divisions may have a fighter aviation regiment equipped with the Su-27/FLANKER B, plus Su-27UB trainers.

** The fighter-bomber aviation regiments of this division normally have the MiG-27/ FLOGGER D/J, plus a number of MiG-23UB trainers that can also serve as combat aircraft. Alternatively, some of these regiments may have the Su-17/FITTER D/H, plus a number of Su-17UB trainers.

*** Each squadron normally has 12 aircraft. This total includes up to two training aircraft that can also serve as combat aircraft.

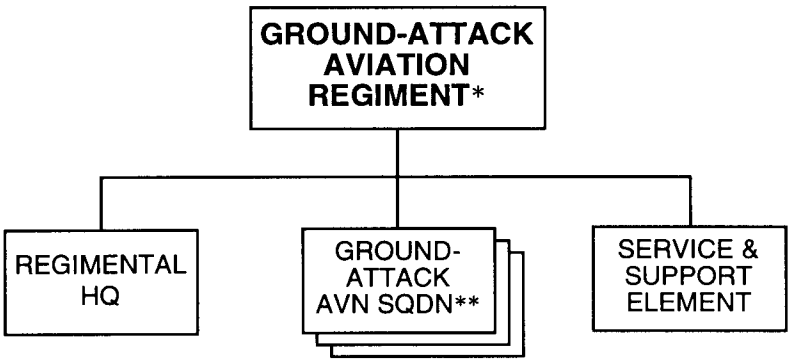
Bomber Aviation Division, Air Army



* The bomber aviation regiments of this division normally have the Su-24/FENCER. Alternatively, one of the regiments may have the Su-27/FLANKER B.

** Each squadron normally has 12 aircraft. This total can include up to two training aircraft that can also serve as combat aircraft.

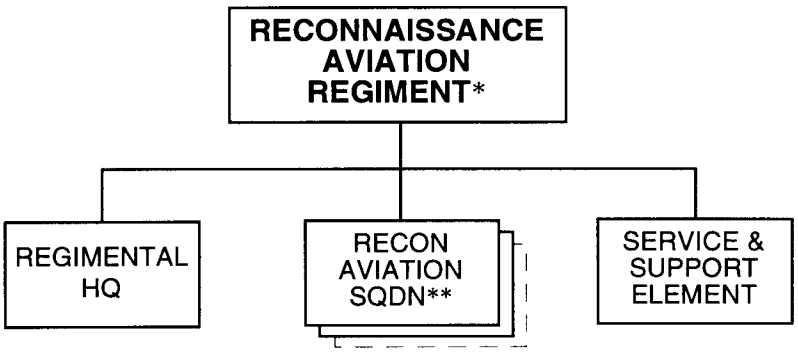
Ground-Attack Aviation Regiment, Air Army



* This regiment has Su-25/FROGFOOT ground-attack aircraft, plus a number of Su-25UB trainers that may also serve as combat aircraft.

** Each squadron normally has 12 aircraft. This total includes up to two training aircraft per squadron that can also serve as combat aircraft.

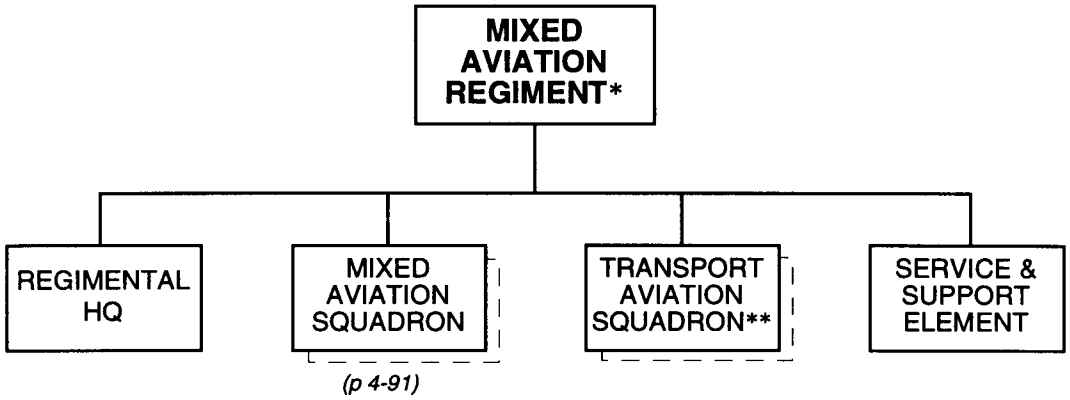
Reconnaissance Aviation Regiment, Air Army



* The reconnaissance aviation squadrons of this regiment may have reconnaissance variants of the following aircraft: Su-24/FENCER, Su-17/FITTER, or MiG-25/FOXBAT B/D.

** Each squadron normally has 12 to 16 aircraft. This total includes up to four training aircraft per squadron that can also perform reconnaissance.

Mixed Aviation Regiment, Air Army



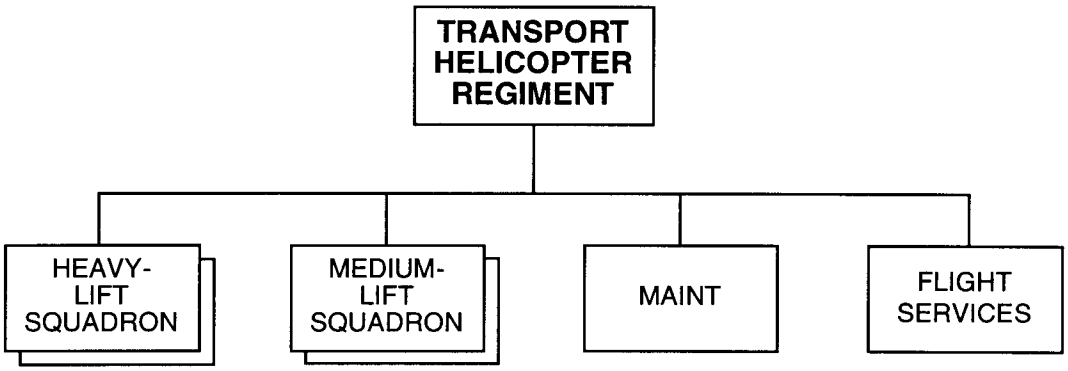
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Helicopter, Mi-8T/HIP C or Mi-8MT(Mi-17)/HIP H	4-16
Heavy-Lift Helicopter, Mi-6A/HOOK or Mi-26/HALO A	1-4
Light Transport Aircraft, An-26/CURL or Il-18/COOT, or Medium Transport Aircraft, An-12/CUB	28-64

* A mixed aviation regiment normally has three squadrons, at least one of them a mixed aviation squadron of helicopters and fixed-wing aircraft. Other squadrons are pure fixed-wing transport aviation squadrons.

** A transport aviation squadron has either 16 or 20 aircraft.

Transport Helicopter Regiment, Air Army



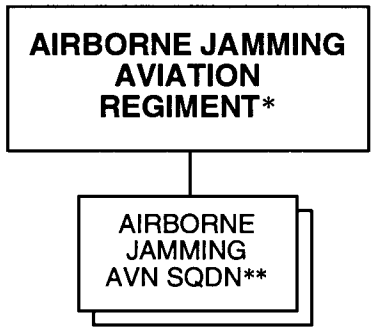
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Heavy-Lift Helicopter, Mi-6A/HOOK or Mi-26/HALO A	24

Equipment	Total
Medium Helicopter, Mi-8T/HIP C or Mi-8MT(Mi-17)/HIP H*	24

* Some of the medium helicopters may be Mi-8S VIP variants or Mi-8VKP/HIP D airborne command post variants.

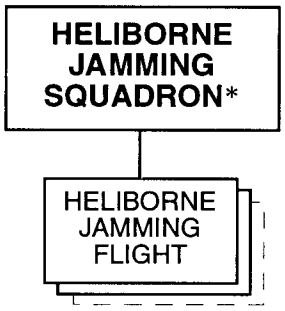
Airborne Jamming Aviation Regiment, Air Army



* This regiment may have a squadron of Su-24/FENCER jamming variants and a squadron of Yak-28/BREWER E jamming variants.

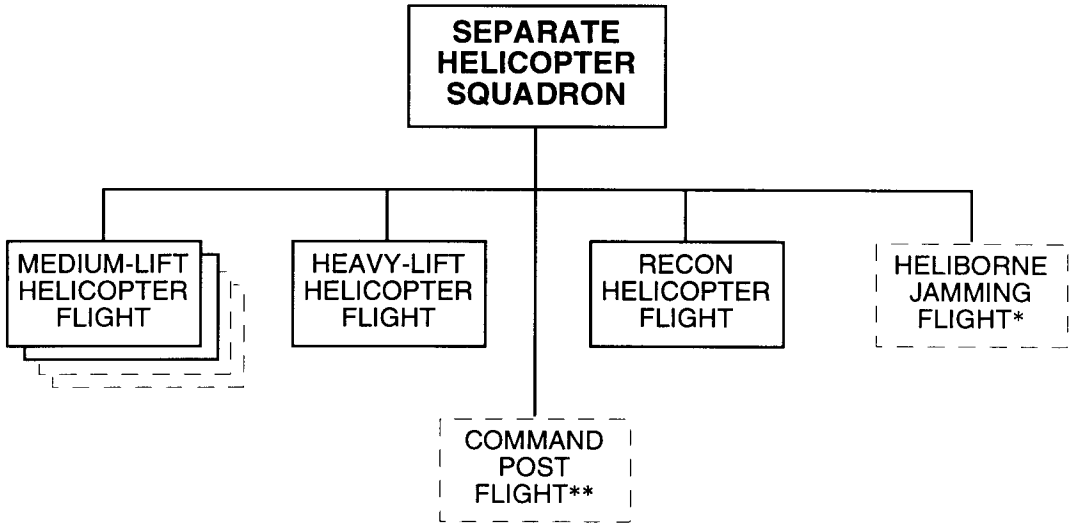
** Each squadron normally has 12 aircraft.

Heliborne Jamming Squadron, Air Army



* This squadron may have one or two Mi-8T/HIP C/E or Mi-8MT(Mi-17)/HIP H medium helicopters and 14 to 21 jamming variants of the types Mi-8SMV/HIP J, or Mi-8PPA/HIP K, or Mi-8MT(Mi-17P)/HIP H.

Separate Helicopter Squadron, Air Army



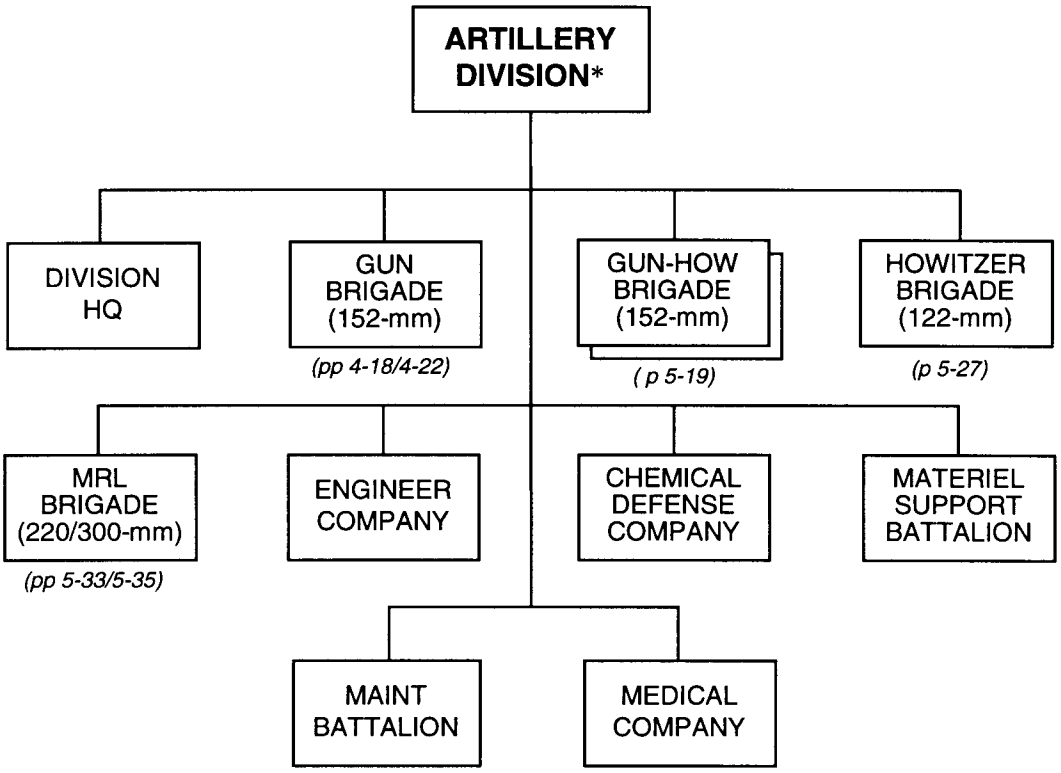
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Medium Helicopter, Mi-8T/HIP C/E or Mi-8MT(Mi-17)/HIP H	6-12
Heavy-Lift Helicopter, Mi-6A/HOOK or Mi-26/HALO A	1-2
NBC-Sampling Helicopter, Mi-24R/HIND G1	2
Photorecon Helicopter, Mi-24K/HIND G2	2

* Some separate helicopter squadrons may also have two or three Mi-8SMV/HIP J and two or three Mi-8PPA/HIP K or Mi-8MT(Mi-17P)/HIP H jamming helicopters.

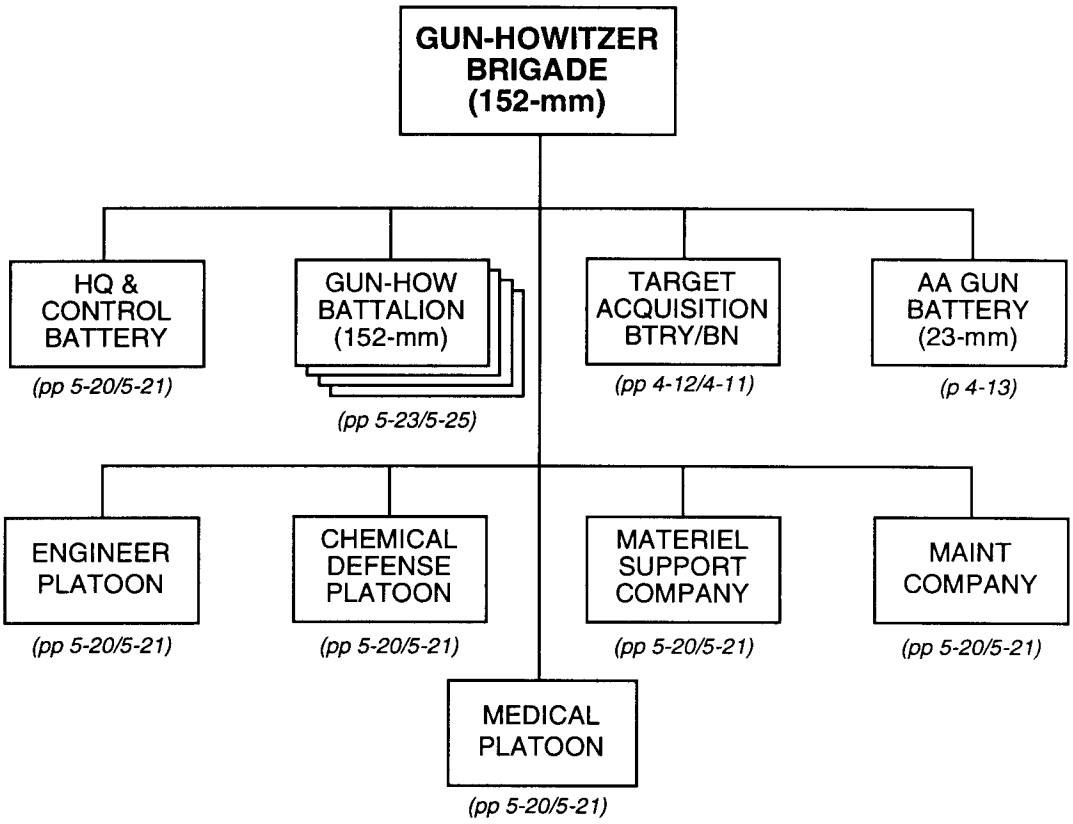
** Some squadrons may also have one or two Mi-8VKP airborne command post helicopters.

Artillery Division, Army Group



* In ***most*** artillery divisions, howitzer, gun-howitzer, and gun brigades consist of four 18-tube battalions and a target acquisition battery. The equipment totals above reflect this standard brigade structure. In other artillery divisions, these brigades could have four 24-tube battalions.

152-mm Gun-Howitzer Brigade, Arty Div



(continued)

152-mm Gun-Howitzer Brigade (4 x 18-Tube Battalion), Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun-How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		12								12
ACRV, 1V19/1V152 (Bn COP)****		4								4
Armored Recovery Vehicle								1		1
WEAPONS										
152-mm Gun-How, D-20 or 2A65		72								72
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	72								75
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)****		12								12
ACRV, 1V111/1V153 (Bn FDC)****		4								4
Truck, Utility	6	4		1	1		1	1		14
Truck, Light	2	36	2	8	6		1		1	56
Truck, Medium	1	148	4				32	3	2	190
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		8					6			14
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	4	4				2	6		17
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	68					20	3		92
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	16	1						1	19
Trailer, Meteorological*****			1							1
Trailer, POL (4,200-L)		8					6			14
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.
***** This trailer carries the END TRAY meteorological radar.

(continued)

152-mm Gun-Howitzer Brigade (4 x 18-Tube Battalion), Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun-How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
RADIOS										
VHF, Manpack, Low-Power	6	56	13	3			1	1	1	81
VHF, Portable, Low-Power	1	92								93
VHF, Vehicle Mount, Medium-Power	5	36	4		4	3				52
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	128	4							133

152-mm Gun-Howitzer Brigade (4 x 24-Tube Battalion), Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun-How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		12								12
ACRV, 1V19/1V152 (Bn COP)****		4								4
Armored Recovery Vehicle								1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system.

(continued)

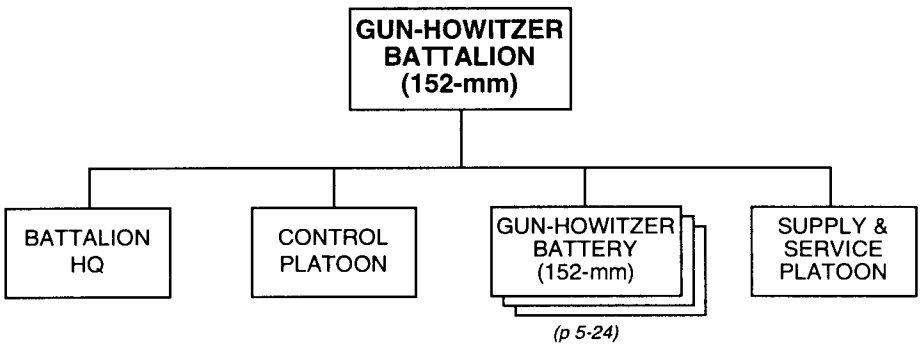
152-mm Gun-Howitzer Brigade (4 x 24-Tube Battalion), Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*152-mm Gun-How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS										
152-mm Gun-How, D-20 or 2A65		96								96
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	96								99
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)*		24								24
ACRV, 1V111/1V153 (Bn FDC)*		4								4
Truck, Utility	6	4		1	1		1	1		14
Truck, Light	2	36	2	8	6		1		1	56
Truck, Medium	1	172	4				32	3	2	214
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		8					6			14
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	4	4				2	6		17
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	68					20	3		92
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	16	1						1	19
Trailer, Meteorological**			1							1
Trailer, POL (4,200-L)		8					6			14
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11
RADIOS										
VHF, Manpack, Low-Power	6	56	13	3			1	1	1	81
VHF, Portable, Low-Power	1	116								117
VHF, Vehicle Mount, Medium-Power	5	36	4		4	3				52
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	152	4							157

* The 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

** This trailer carries the END TRAY meteorological radar.

152-mm Gun-Howitzer Battalion (18-Tube), 152-mm Arty Bde or 152-mm Gun-How Bde



(p 5-24)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Gun-Howitzer, D-20 or 2A65	18
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V18/1V152 (Btry COP)**	3
ACRV, 1V19/1V152 (Bn COP)**	1
ACRV, 1V110/1V153 (Btry FDC)**	3
ACRV, 1V111/1V153 (Bn FDC)**	1
Mobile Recon Post, PRP-3/4***	1
7.62-mm GP MG, PKM	18
SAM, Shoulder-Fired	18
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Light	9
Truck, Medium	37
Truck, POL (5,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1

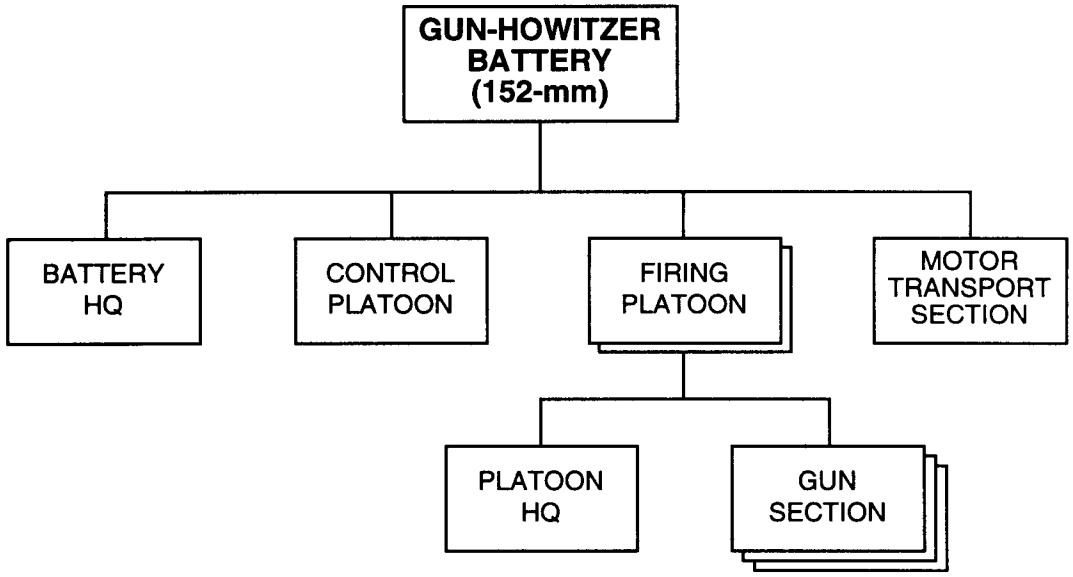
Equipment	Total
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very Low-Power	23
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (D-20 or 2A65), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V52 and 1V53 ACRVs are part of the Kapustnik-B automated fire control system.

*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

152-mm Gun-Howitzer Battery (6-Tube), 152-mm Gun-How Bn (18-Tube)



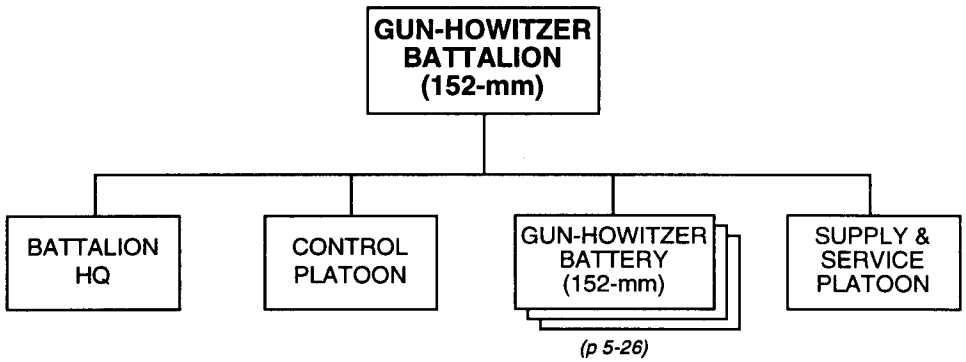
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Gun-Howitzer, D-20 or 2A65	6
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	1
7.62-mm GP MG, PKM	6
SAM, Shoulder-Fired	6
ATGL, RPG-7V	2
Truck, Medium	9
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	7
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

152-mm Gun-Howitzer Battalion (24-Tube), 152-mm Arty Bde or 152-mm Gun-How Bde



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PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Gun-Howitzer, D-20 or 2A65	24
152-mm Laser-Guided Projectile Set, Krasnopol-M*	4
ACRV, 1V18/1V152 (Btry COP)*	3
ACRV, 1V19/1V152 (Bn COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	6
ACRV, 1V111/1V153 (Bn FDC)*	1
Mobile Recon Post, PRP-3/4**	1
7.62-mm GP MG, PKM	24
SAM, Shoulder-Fired	24
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Light	9
Truck, Medium	43
Truck, POL (5,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1

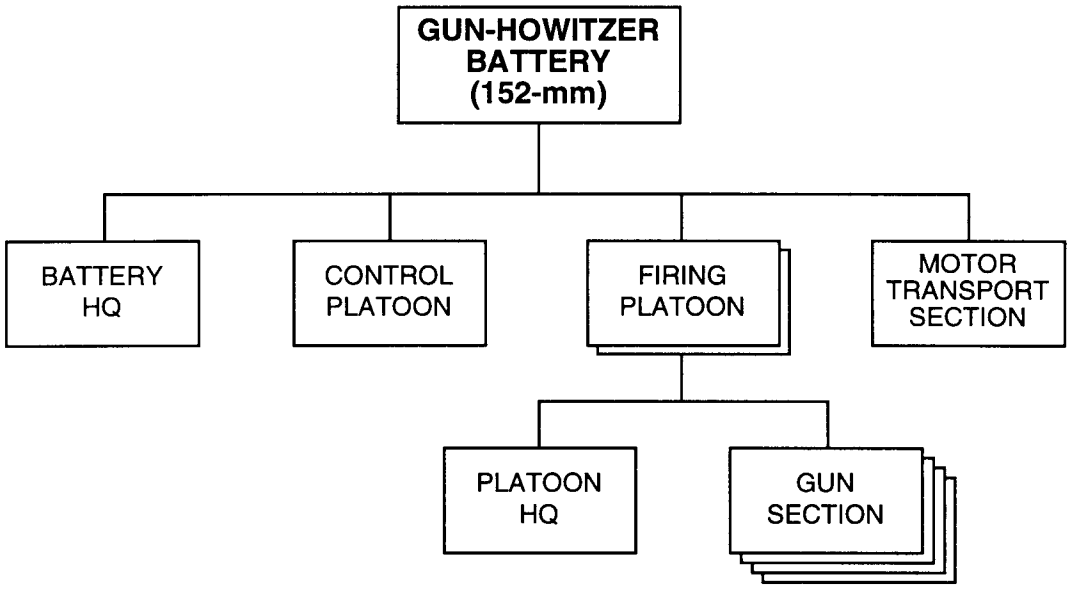
Equipment	Total
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	38
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very-Low-Power	29
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (D-20 or 2A65), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V52 and 1V53 ACRVs are part of the Kapustnik-B automated fire control system.

*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

152-mm Gun-Howitzer Battery (8-Tube), 152-mm Gun-How Bn (24-Tube)



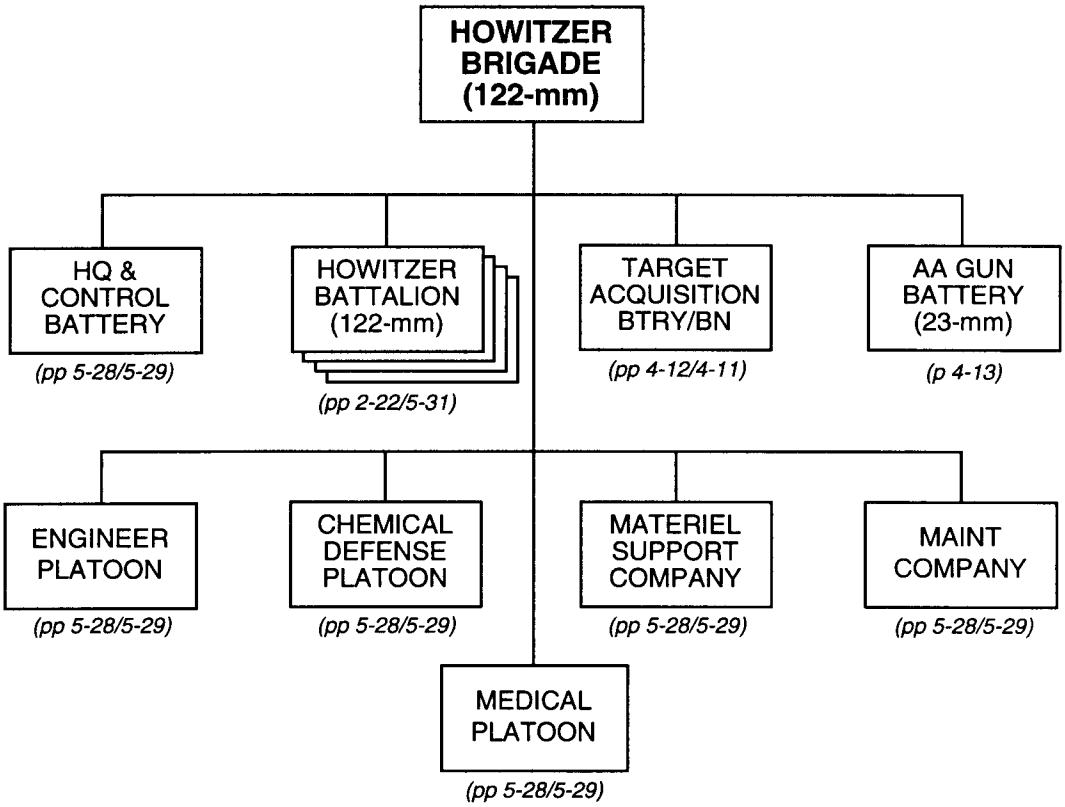
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
152-mm Gun-Howitzer, D-20 or 2A65	8
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	2
7.62-mm GP MG, PKM	8
SAM, Shoulder-Fired	8
ATGL, RPG-7V	2
Truck, Medium	11
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	12
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	9
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

122-mm Howitzer Brigade, Arty Div



(continued)

122-mm Howitzer Brigade (4 x 18-Tube Battalion), Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*122-mm How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		12								12
ACRV, 1V19/1V152 (Bn COP)****		4								4
Armored Recovery Vehicle								1		1
WEAPONS										
122-mm Howitzer, D-30		72								72
122-mm Laser-Guided Projectile Set		16								16
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	72								75
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)****		12								12
ACRV, 1V111/1V153 (Bn FDC)****		4								4
Truck, Utility	6	4		1	1		1	1		14
Truck, Light	2	36	2	8	6		1		1	56
Truck, Medium	1	136	4				32	3	2	178
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		8					6			14
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	4	4				2	6		17
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	56					20	3		80
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	16	1						1	19
Trailer, Meteorological*****			1							1
Trailer, POL (4,200-L)		8					6			14
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

** This system includes the BIG FRED battlefield surveillance radar.

*** This system includes the RICE BAG countermortar/counterbattery radar.

**** The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

***** This trailer carries the END TRAY meteorological radar.

(continued)

122-mm Howitzer Brigade (4 x 18-Tube Battalion), Arty Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*122-mm How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
RADIOS										
VHF, Manpack, Low-Power	6	56	13	3			1	1	1	81
VHF, Portable, Low-Power	1	92								93
VHF, Vehicle Mount, Medium-Power	5	36	4		4	3				52
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	128	4							133

122-mm Howitzer Brigade (4 x 24-Tube Battalion), Arty Div

Principal Items of Equipment	*HQ & Control Btry*	*122-mm How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		12								12
ACRV, 1V19/1V152 (Bn COP)****		4								4
Armored Recovery Vehicle								1		1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
** This system includes the BIG FRED battlefield surveillance radar.
*** This system includes the RICE BAG countermortar/counterbattery radar.
**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system.

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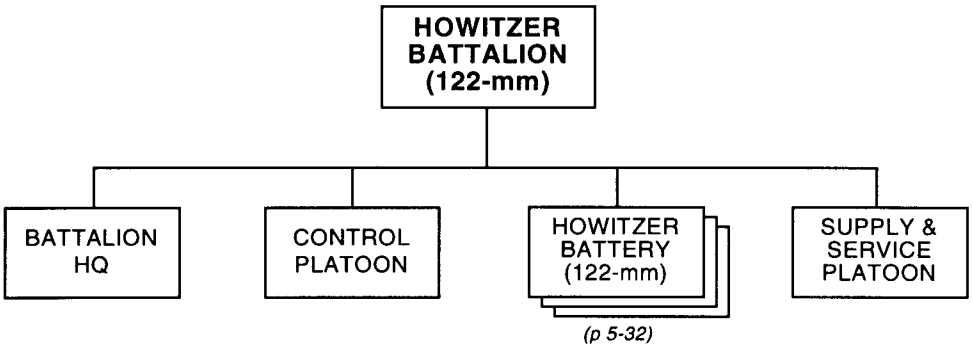
122-mm Howitzer Brigade (4 x 24-Tube Battalion), Arty Div (continued) _____

Principal Items of Equipment	*HQ & Control Btry*	*122-mm How Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS										
122-mm Howitzer, D-30		96								96
122-mm Laser-Guided Projectile Set		16								16
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	96								99
23-mm AA Gun, ZU-23				8						8
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)*		24								24
ACRV, 1V111/1V153 (Bn FDC)*		4								4
Truck, Utility	6	4		1	1		1	1		14
Truck, Light	2	36	2	8	6		1		1	56
Truck, Medium	1	160	4				32	3	2	202
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		8					6			14
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	4	4				2	6		17
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	56					20	3		80
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	16	1						1	19
Trailer, Meteorological**			1							1
Trailer, POL (4,200-L)		8					6			14
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11
RADIOS										
VHF, Manpack, Low-Power	6	56	13	3			1	1	1	81
VHF, Portable, Low-Power	1	116								117
VHF, Vehicle Mount, Medium-Power	5	36	4		4	3				52
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	152	4							157

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

** This trailer carries the END TRAY meteorological radar.

122-mm Howitzer Battalion (24-Tube), 122-mm How Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm Howitzer, D-30	24
122-mm Laser-Guided Projectile Set, Kitolov-2M*	4
ACRV, 1V18/1V152 (Btry COP)**	3
ACRV, 1V19/1V152 (Bn COP)**	1
ACRV, 1V110/1V153 (Btry FDC)**	6
ACRV, 1V111/1V153 (Bn FDC)**	1
Mobile Recon Post, PRP-3/4***	1
7.62-mm GP MG, PKM	24
SAM, Shoulder-Fired	24
ATGL, RPG-7V	6
Truck, Utility	1
Truck, Light	9
Truck, Medium	40
Truck, POL (5,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1

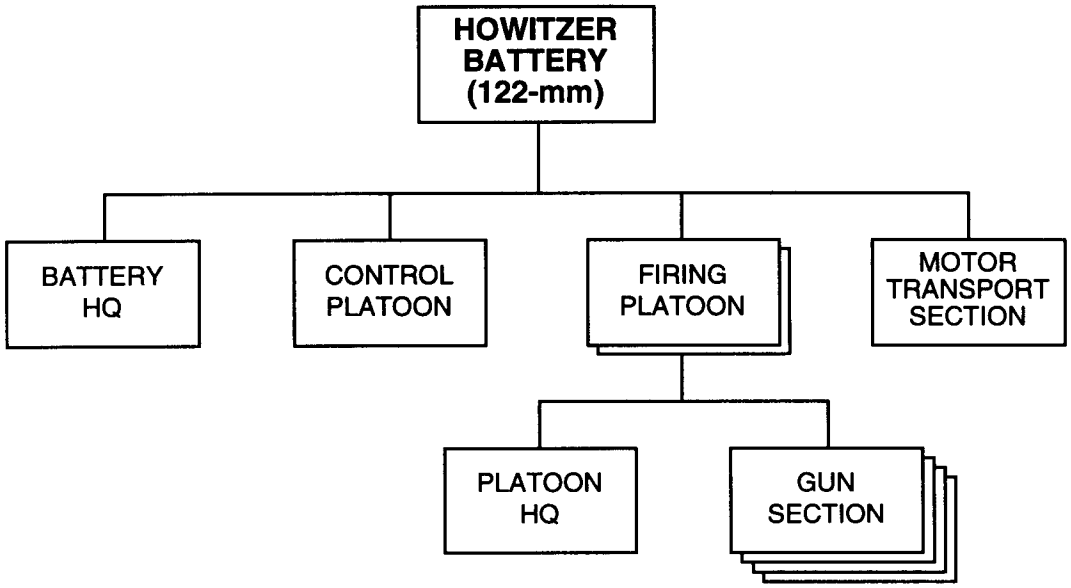
Equipment	Total
Trailer, Cargo, 2-Axle	14
Trailer, Generator	2
Trailer, Kitchen	4
Trailer, POL (4,200-Liter)	2
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	38
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very-Low-Power	29
VHF, Vehicle Mount, Medium-Power	9
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all howitzer battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (D-30), each LGP set typically includes a dismountable laser target designator (1D15M/1D20/1D22), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V52 and 1V53 ACRVs are part of the Kapustnik-B automated fire control system.

*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

122-mm Howitzer Battery (8-Tube), 122-mm How Bn (24-Tube)



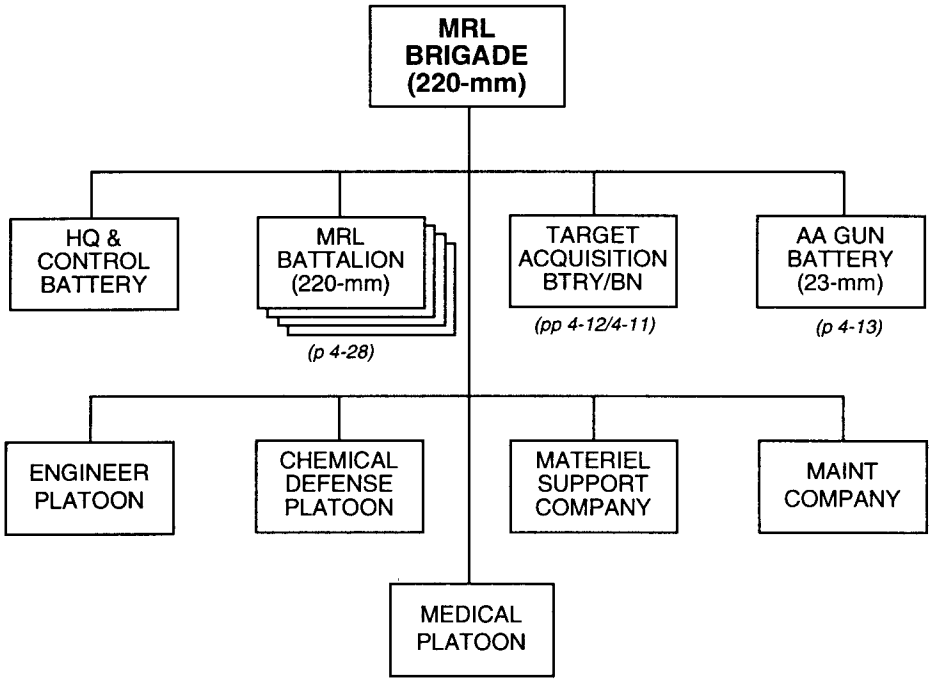
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
122-mm Howitzer, D-30	8
ACRV, 1V18/1V152 (Btry COP)*	1
ACRV, 1V110/1V153 (Btry FDC)*	2
7.62-mm GP MG, PKM	8
SAM, Shoulder-Fired	8
ATGL, RPG-7V	2
Truck, Medium	10
Van, Signal	1
Trailer, Cargo, 2-Axle	2
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	12
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Very-Low-Power	9
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* The 1V152 and 1V153 ACRVs are part of the Kapustnik-B automated fire control system.

220-mm Multiple Rocket Launcher Brigade, Arty Div or Army Group



Principal Items of Equipment	*HQ & Control Btry*	*220-mm MRL Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2	4	1							7
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post , PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
ACRV, 1V18/1V152 (Btry COP)****		12								12
ACRV, 1V19/1V152 (Bn COP)****		4								4
Armored Recovery Vehicle								1		1
WEAPONS										
220-mm MRL, 9P140 (Uragan)		72								72
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	72								75
23-mm AA Gun, ZU-23				6						6

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

** This system includes the BIG FRED battlefield surveillance radar.

*** This system includes the RICE BAG countermortar/counterbattery radar.

**** The 1V152 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, the 220-mm MRL battalion may use the command and staff vans of the 1K23 automated fire control system.

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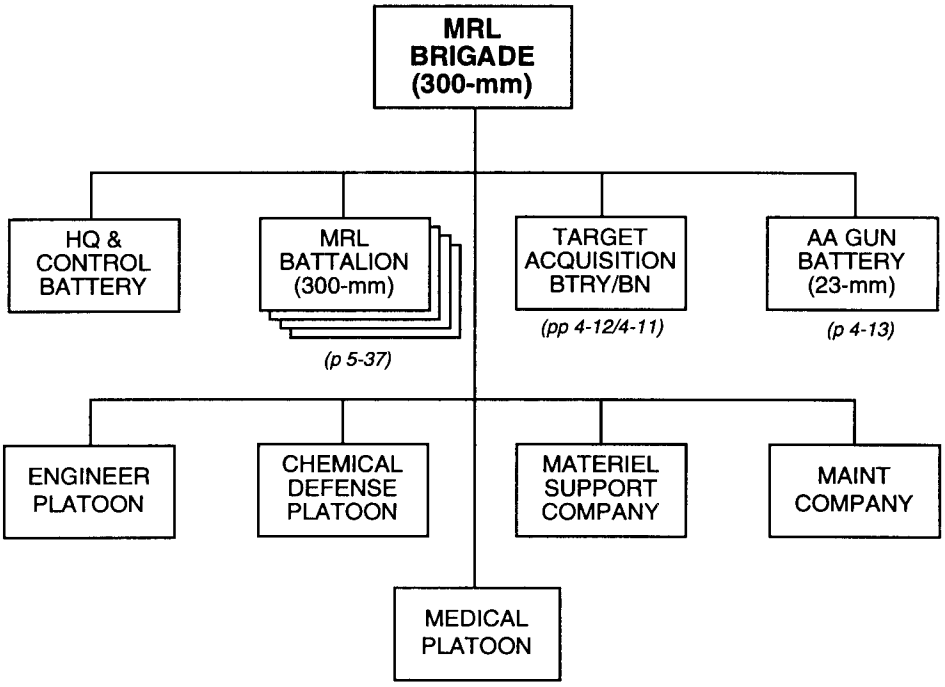
220-mm Multiple Rocket Launcher Brigade, Arty Div or Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*220-mm MRL Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
ACRV, 1V110/1V153 (Btry FDC)*		12								12
ACRV, 1V111/1V153 (Bn FDC)*		4								4
Truck, Utility	6	12		1	1		1	1		22
Truck, Light	2		2	6	6		1		1	18
Truck, Medium	1	40	4				32	3	2	82
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		24					6			30
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance	1	12	4				2	6		25
Van, Signal	2	16								18
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	32					20	3		56
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	12	1						1	15
Trailer, Meteorological**			1							1
Trailer, POL (4,200-L)		24					6			30
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11
RADIOS										
VHF, Manpack, Low-Power	6	72	13	3			1	1	1	97
VHF, Portable, Low-Power	1									1
VHF, Vehicle Mount, Medium-Power	5	24	4		4	3				40
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	24								27
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	4	1	1						7
MISCELLANEOUS										
Reload Vehicle for 9P140		144								144
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	128	4							133

* The 1V152 ACRVs are part of the Kapustnik-B automated fire control system. In lieu of these, the 220-mm MRL battalion may use the command and staff vans of the 1K23 automated fire control system.

** This trailer carries the END TRAY meteorological radar.

300-mm Multiple Rocket Launcher Brigade, Arty Div or Army Group



Principal Items of Equipment	*HQ & Control Btry*	*300-mm MRL Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
APC, BTR-60/70/80	1									1
ACV, BTR (R-145BM)	2	4	1							7
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1					3				4
Mobile Recon Post, PRP-3/4*	1	4	1							6
APC, Radar, MT-LB (SNAR-10)**			1							1
APC, Radar, MT-LB (ARK-1)***			1							1
Armored Recovery Vehicle								1		1
WEAPONS										
300-mm MRL, 9A52-2 (Smerch)		48								48
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	48								51
23-mm AA Gun, ZU-23				6						6
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

** This system includes the BIG FRED battlefield surveillance radar.

*** This system includes the RICE BAG countermortar/counterbattery radar.

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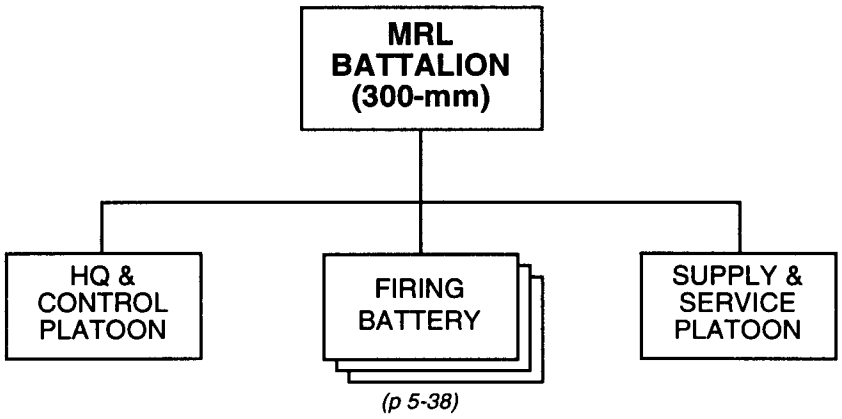
300-mm Multiple Rocket Launcher Brigade, Arty Div or Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*300-mm MRL Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
TRUCKS										
Truck, Utility	6	12		1	1		1	1		22
Truck, Light	2		2	6	6		1		1	18
Truck, Medium	1	40	4				32	3	2	82
Truck, Crane					1					1
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		20					6			26
Truck, Water (2,000-L)						2				2
Van, Command and Staff*	2	28								30
Van, Hospital									1	1
Van, Maintenance	1	12	4				2	6		25
Van, Meteorological		4								4
Van, Signal	2	16								18
Van, Topographical		4								4
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle	1	32					20	3		56
Trailer, Generator	4	36	2		1			2		45
Trailer, Kitchen	1	12	1						1	15
Trailer, Meteorological**			1							1
Trailer, POL (4,200-L)		12					6			18
Trailer, POL (1,200-L)		8								8
Trailer, Water (900/1,200-L)	1	4	1			2	2		1	11
RADIOS										
VHF, Manpack, Low-Power	6	60	13	3			1	1	1	85
VHF, Portable, Low-Power	1									1
VHF, Vehicle Mount, Medium-Power	5	44	4		4	3				60
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	24								27
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	4	1	1						7
MISCELLANEOUS										
Reload Vehicle for 9A52-2		96								96
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		24								24
Periscopic Aiming Circle	1	24	2							27
Night-Vision Sight (Aiming Circle)	1	24	2							27
GPS Receiver	1	104	4							109

* This van is part of the 1K123 automated fire control system.

** This trailer carries the END TRAY meteorological radar.

300-mm Multiple Rocket Launcher Battalion, 300-mm MRL Bde



(p 5-38)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
300-mm MRL, 9A52-2 (Smerch)	12
ACV, BTR (R-145BM)	1
Mobile Recon Post, PRP-3/4*	1
SAM, Shoulder-Fired	12
ATGL, RPG-7V	6
Reload Vehicle for 9A52**	24
Truck, Utility	3
Truck, Medium	10
Truck, POL (5,000-Liter)	5
Van, Command and Staff***	7
Van, Maintenance	3
Van, Meteorological	1
Van, Signal	4
Van, Topographical	1
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	9

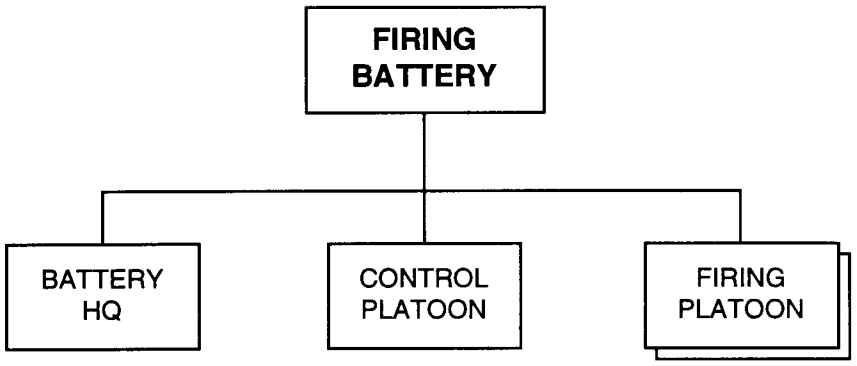
Equipment	Total
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	3
Trailer, POL (1,200-Liter)	2
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	6
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	26
Radios:	
VHF, Manpack, Low-Power	15
VHF, Vehicle Mount, Medium-Power	11
HF/VHF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

** Besides the 4 reload vehicles in each firing battery, there are 12 in the supply and service platoon.

*** This van is part of the 1K123 automated fire control system.

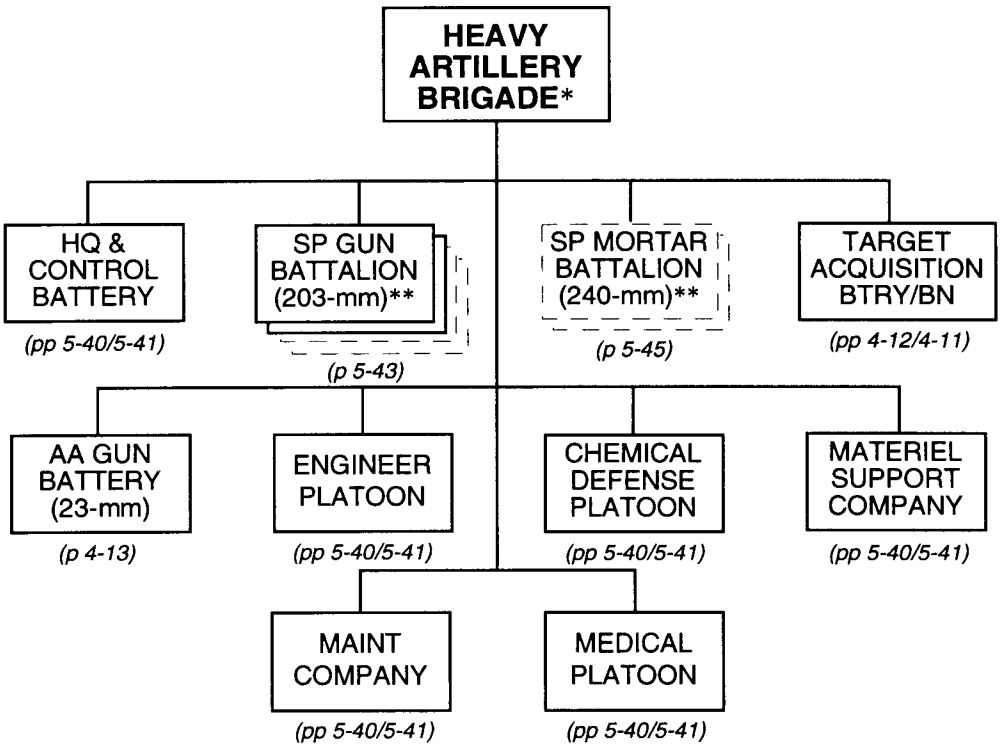
Firing Battery, 300-mm MRL Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
300-mm MRL, 9A52-2 (Smerch)	4
SAM, Shoulder-Fired	4
ATGL, RPG-7V	2
Reload Vehicle for 9A52-2	4
Van, Command and Staff, 1K123	2
Van, Signal	1
Rangefinder, Laser, 1D8/1D12	2
Rangefinder, Laser, Binocular, LPR-1	2
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	8
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	2
HF/VHF, Vehicle Mount, Medium-Power	1

Heavy Artillery Brigade, Army Group



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* This brigade is not part of the army group's artillery division. It is not actually organic to the army group. However, higher command may allocate a heavy artillery brigade to an army group.

** The heavy artillery brigade always has four battalions of heavy artillery. It may have all four of its battalions equipped with 203-mm SP guns. Alternatively, it may have two battalions of SP guns and two battalions of 240-mm SP mortars.

(continued)

Heavy Artillery Brigade (4 x SP Gun Battalion), Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*203-mm SP Gun Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES										
ACV, BTR (R-145BM)	2		1							3
Chemical Recon Vehicle, BRDM-2RKh	1					3				4
APC, Radar, MT-LB (SNAR-10)*			1							1
APC, Radar, MT-LB (ARK-1)**			1							1
Mobile Recon Post, PRP-3/4***		4	1							5
ACRV, 1V13/1V13M/1V22 (Btry FDC)		12								12
ACRV, 1V14/1V14M/1V23 (Btry COP)		12								12
ACRV, 1V15/1V15M/1V24 (Bn COP)		4								4
ACRV, 1V16/1V16M/1V25 (Bn FDC)		4								4
WEAPONS										
203-mm SP Gun, 2S7		48								48
23-mm AA Gun, ZU-23				8						8
ATGL, RPG-7V	4	24						4		32
SAM, Shoulder-Fired	3	48								51
ENGINEER EQUIPMENT										
Route-Clearing Vehicle, BAT/PKT					2					2
Ditching Machine, BTM/MDK					2					2
TRUCKS										
Truck, Utility	7			1	1		1	1		11
Truck, Light	2		2	8	6		1		1	20
Truck, Medium	1	80	4				45	3	2	135
Truck, Crane					1			1		2
Truck, Crane Shovel					1					1
Truck, Decon, ARS-12U/14						3				3
Truck, Decon, DDA-53/66						1			1	2
Truck, Dump					1					1
Truck, POL (5,000-L)		16					8			24
Truck, Water (2,000-L)						2				2
Van, Hospital									1	1
Van, Maintenance		8	4				2	6		20
Van, Signal	3	16								19
Van, Survey			1							1
Ambulance		4							4	8
TRAILERS										
Trailer, Cargo, 1-Axle			1		1					2
Trailer, Cargo, 2-Axle		68					20	3		91
Trailer, Generator	2	8	2		1			2		15
Trailer, Kitchen	1	12	1						1	15
Trailer, Meteorological****			1							1
Trailer, POL (4,200-L)		16					3			19
Trailer, Water (900-/1,200-L)		4	1			2	2		1	10

* This system includes the BIG FRED battlefield surveillance radar.
** This system includes the RICE BAG countermortar/counterbattery radar.
*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
**** This trailer carries the END TRAY meteorological radar.

(continued)

Heavy Artillery Brigade (4 x SP Gun Battalion), Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*203-mm SP Gun Bn (x4)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
RADIOS										
VHF, Manpack, Low-Power	6	40	13	3			1	1	1	65
VHF, Portable, Low-Power	1									1
VHF, Vehicle Mount, Medium-Power	4	84	4		4	3				99
HF, Manpack, Low-Power	1				1	1				3
HF, Vehicle Mount, Medium-Power	5									5
HF/VHF, Vehicle Mount, Medium-Power	3	16								19
HF/VHF, Vehicle Mount, High-Power	1									1
Radio Relay, VHF/UHF	1									1
Warning Receiver	1	8	1	1						11
MISCELLANEOUS										
Sound-Ranging Set			1							1
Rangefinder, Laser	1	28	2							31
Rangefinder, Laser, Binocular		36								36
Periscopic Aiming Circle		24	2							26
Night-Vision Sight (Aiming Circle)		24	2							26
GPS Receiver		104	4							108

Heavy Artillery Brigade (2 x SP Gun Battalion and 2 x SP Mortar Battalion), Army Group

Principal Items of Equipment	*HQ & Control Btry*	*203-mm SP Gun Bn (x2)*	*240-mm SP Mortar Bn (x2)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES											
ACV, BTR (R-145BM)	2			1							3
Chemical Recon Vehicle, BRDM-2RKh	1						3				4
APC, Radar, MT-LB (SNAR-10)*				1							1
APC, Radar, MT-LB (ARK-1)**				1							1
Mobile Recon Post, PRP-3/4***		2	2	1							5
ACRV, 1V13/1V13M/1V22 (Btry FDC)		6	6								12
ACRV, 1V14/1V14M/1V23 (Btry COP)		6	6								12
ACRV, 1V15/1V15M/1V24 (Bn COP)		2	2								4
ACRV, 1V16/1V16M/1V25 (Bn FDC)		2	2								4

* This system includes the BIG FRED battlefield surveillance radar.
** This system includes the RICE BAG countermortar/counterbattery radar.
*** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

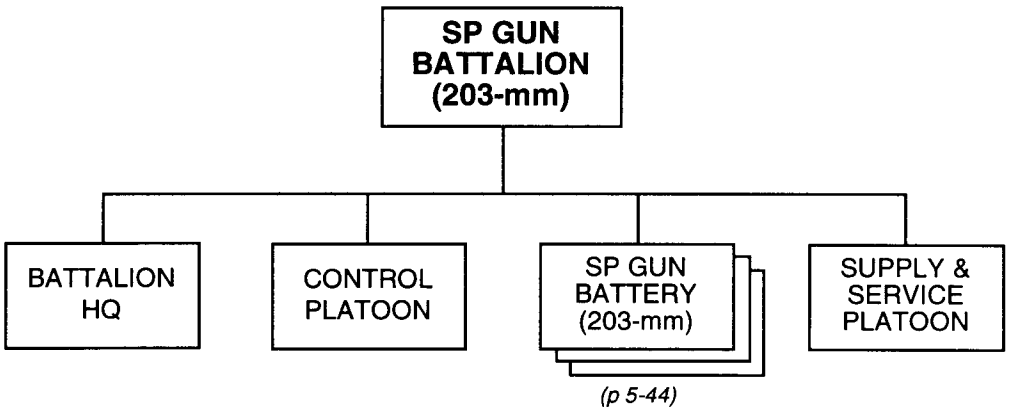
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Heavy Artillery Brigade (2 x SP Gun Battalion and 2 x SP Mortar Battalion), Army Group (continued)

Principal Items of Equipment	*HQ & Control Btry*	*203-mm SP Gun Bn (x2)*	*240-mm SP Mortar Bn (x2)*	*Target Acquisition Btry*	*23-mm AA Gun Btry*	*Engineer Plt*	*Chemical Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS											
203-mm SP Gun, 2S7		24									24
240-mm SP Mortar, 2S4			24								24
23-mm AA Gun, ZU-23					8						8
ATGL, RPG-7V	4	12	12						4		32
SAM, Shoulder-Fired	3	24	24								51
ENGINEER EQUIPMENT											
Route-Clearing Vehicle, BAT/PKT						2					2
Ditching Machine, BTM/MDK						2					2
TRUCKS											
Truck, Utility	7				1	1		1	1		11
Truck, Light	2			2	8	6		1		1	20
Truck, Medium	1	40	40	4				45	3	2	135
Truck, Crane						1			1		2
Truck, Crane Shovel						1					1
Truck, Decon, ARS-12U/14							3				3
Truck, Decon, DDA-53/66							1			1	2
Truck, Dump						1					1
Truck, POL (5,000-L)		8	8					8			24
Truck, Water (2,000-L)							2				2
Van, Hospital										1	1
Van, Maintenance		4	4	4				2	6		20
Van, Signal	3	8	8								19
Van, Survey				1							1
Ambulance		2	2							4	8
TRAILERS											
Trailer, Cargo, 1-Axle				1		1					2
Trailer, Cargo, 2-Axle		34	34					20	3		91
Trailer, Generator	2	4	4	2		1			2		15
Trailer, Kitchen	1	6	6	1						1	15
Trailer, Meteorological*				1							1
Trailer, POL (4,200-L)		8	8					3			19
Trailer, Water (900-/1,200-L)		2	2	1			2	2		1	10
RADIOS											
VHF, Manpack, Low-Power	6	20	20	13	3			1	1	1	65
VHF, Portable, Low-Power	1										1
VHF, Vehicle Mount, Medium-Power	4	42	42	4		4	3				99
HF, Manpack, Low-Power	1					1	1				3
HF, Vehicle Mount, Medium-Power	5										5
HF/VHF, Vehicle Mount, Medium-Power	3	8	8								19
HF/VHF, Vehicle Mount, High-Power	1										1
Radio Relay, VHF/UHF	1										1
Warning Receiver	1	4	4	1	1						11
MISCELLANEOUS											
Sound-Ranging Set				1							1
Rangefinder, Laser	1	14		2							17
Rangefinder, Laser, Binocular		18	18								36
Periscopic Aiming Circle		12	12	2							26
Night-Vision Sight (Aiming Circle)		12	12	2							26
GPS Receiver		52	52	4							108

* This trailer carries the END TRAY meteorological radar.

203-mm Self-Propelled Gun Battalion, Heavy Arty Bde



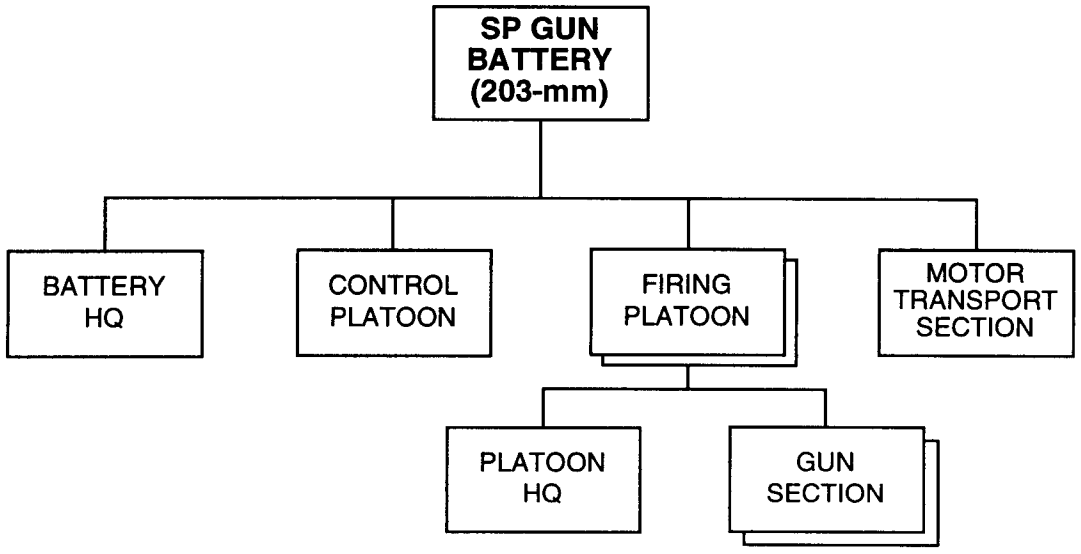
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
203-mm SP Gun, 2S7	12
ACRV, 1V13/1V13M/1V22 (Btry FDC)	3
ACRV, 1V14/1V14M/1V23 (Btry COP)	3
ACRV, 1V15/1V15M/1V24 (Bn COP)	1
ACRV, 1V16/1V16M/1V25 (Bn FDC)	1
Mobile Recon Post, PRP-3/4*	1
5.45-mm LMG, RPK-74	12
SAM, Shoulder-Fired	12
ATGL, RPG-7V	6
Truck, Medium	20
Truck, POL (5,000-Liter)	4
Van, Maintenance	2
Van, Signal	4
Ambulance	1
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2

Equipment	Total
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	4
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	26
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	21
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

203-mm Self-Propelled Gun Battery, 203-mm SP Gun Bn

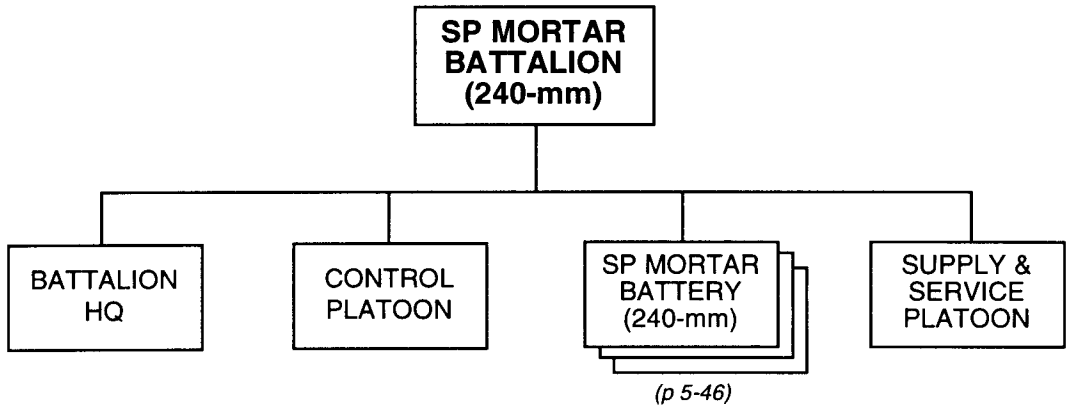


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
203-mm SP Howitzer, 2S7	4
ACRV, 1V13/1V13M/1V22 (Btry FDC)	1
ACRV, 1V14/1V14M/1V23 (Btry COP)	1
5.45-mm LMG, RPK-74	4
SAM, Shoulder-Fired	4
ATGL, RPG-7V	2
Truck, Medium	3
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2

Equipment	Total
Rangefinder, Laser, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	8
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, Medium-Power	1

240-mm Self-Propelled Mortar Battalion, Heavy Arty Bde



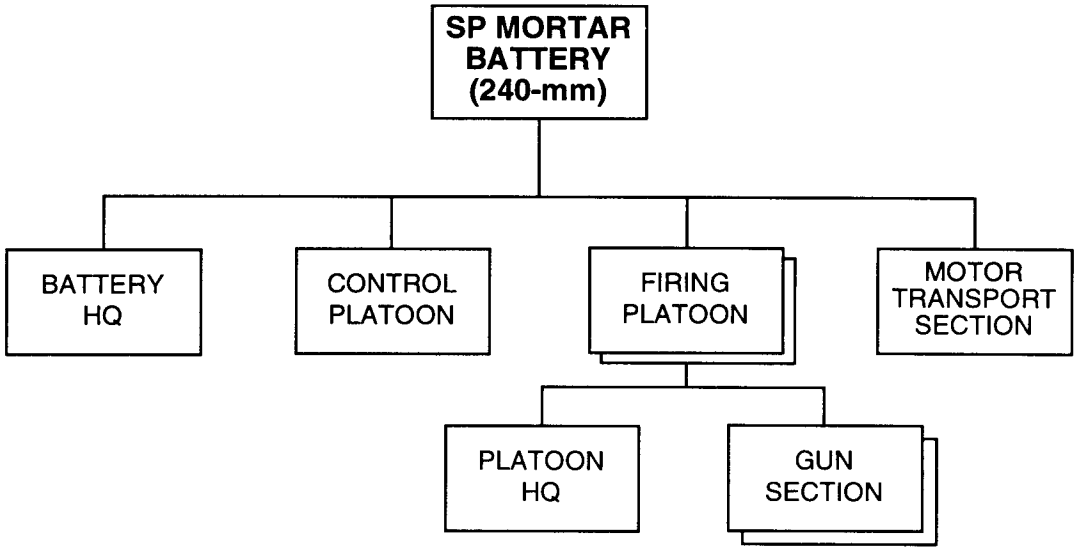
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
240-mm SP Mortar, 2S4	12
ACRV, 1V13/1V13M/1V22 (Btry FDC)	3
ACRV, 1V14/1V14M/1V23 (Btry COP)	3
ACRV, 1V15/1V15M/1V24 (Bn COP)	1
ACRV, 1V16/1V16M/1V25 (Bn FDC)	1
Mobile Recon Post, PRP-3/4*	1
5.45-mm LGM, RPK-74	12
SAM, Shoulder-Fired	12
ATGL, RPG-7V	6
Truck, Medium	20
Truck, POL (5,000-Liter)	4
Van, Maintenance	2
Van, Signal	4
Ambulance	1
Trailer, Cargo, 2-Axle	17
Trailer, Generator	2

Equipment	Total
Trailer, Kitchen	3
Trailer, POL (4,200-Liter)	4
Trailer, Water (1,200-Liter)	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	26
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	21
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

240-mm Self-Propelled Mortar Battery, 240-mm SP Mortar Bn

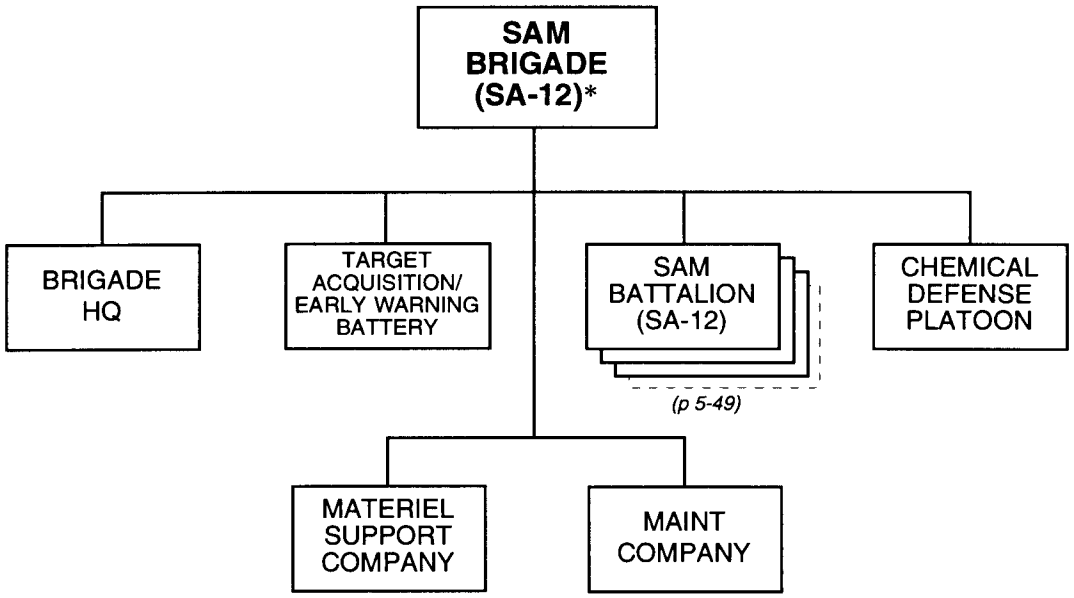


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
240-mm SP Howitzer, 2S4	4
ACRV, 1V13/1V13M/1V22 (Btry FDC)	2
ACRV, 1V14/1V14M/1V23 (Btry COP)	1
5.45-mm LGM, RPK-74	4
SAM, Shoulder-Fired	4
ATGL, RPG-7V	2
Truck, Medium	3
Van, Signal	1
Trailer, Cargo, 2-Axle	3
Rangefinder, Laser, 1D8/1D12	2

Equipment	Total
Rangefinder, Laser, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	8
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	6
HF/VHF, Vehicle Mount, Medium-Power	1

SAM Brigade (SA-12), Army Group



Principal Items of Equipment	*Brigade HQ*	*Tgt Acq/Early Warning Btry*	*SAM Bn (SA-12) (x3)**	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL**
ARMORED VEHICLES							
Chem Recon Vehicle, BRDM-2RKh/RKhM				3			3
WEAPONS							
SAM, SA-12a/GLADIATOR TELAR**			18/36				18/36
SAM, SA-12b/GIANT TELAR**			18				18
SAM, Shoulder-Fired***	3						3
23-mm AA Gun, ZU-23			24				24

* The standard SA-12 brigade has three battalions. However, the brigade headquarters is capable of controlling up to four battalions. The equipment totals here are for the standard three-battalion structure. Totals listed as multiple numbers (such as 18/36) reflect the numbers of that particular piece of equipment when missile firing batteries have one or two SA-12a missile firing platoons, respectively.

** This system includes the (unidentified) missile-tracking and guidance radar, which appears separately in this list.

*** The brigade headquarters may have an AA gun section with two 23-mm AA guns, ZU-23, instead of the SAM squad with three shoulder-fired SAMs.

(continued)

SAM Brigade (SA-12), Army Group (continued)

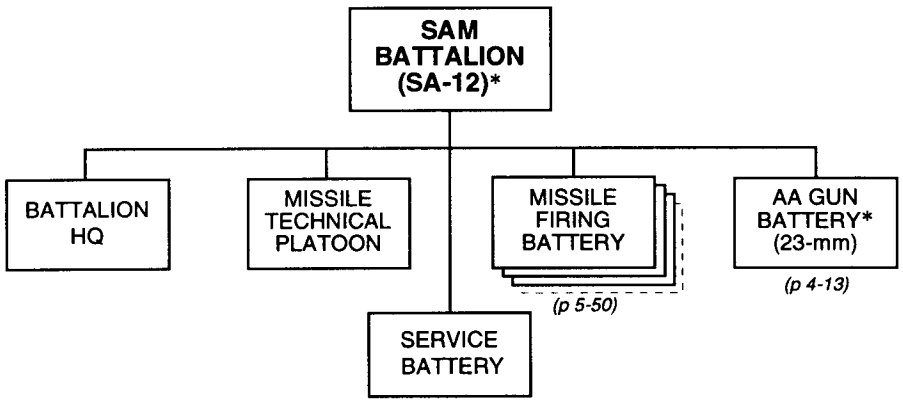
Principal Items of Equipment	*Brigade HQ*	*Tgt Acq/Early Warning Btry*	*SAM Bn (SA-12) (x3)**	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*TOTAL**
TRUCKS							
Truck, Utility	1	2	9		3	1	16
Truck, Light	3	1	24		2	1	31
Truck, Medium			12		25	3	40
Truck, Decon, ARS-12U/14				3			3
Truck, Decon, DDA-53/66				1			1
Truck, Crane			3			1	4
Truck, POL (5,000-L)			9		3		12
Truck, Water (2,000-L)				2	2		4
Van, Computer		1					1
Van, Maintenance		1	6		2	8	17
Van, Medium	2						2
Van, Radar		1					1
Van, Signal	3		3				6
Ambulance	2						2
TRAILERS							
Trailer, Cargo, 1-Axle		1	3				4
Trailer, Cargo, 2-Axle		1	6		5	3	15
Trailer, Generator	2	3	6		2	2	15
Trailer, Kitchen	1	1	3		3	1	9
Trailer, POL (4,200-L)			9		3		12
Trailer, Van	4	1					5
Trailer, Water (900-/1,200-L)			3	2	1	1	7
RADARS							
Radar, Early Warning, BOX SPRING		1					1
Radar, Tgt Acq, BILL BOARD		1	3				4
Radar, Tgt Acq, HIGH SCREEN		1	3				4
Radar, Height Finding, THIN SKIN		1					1
Radar, Tgt Eng, GRILL PAN			9				9
Radar, Missile-Tracking & Guidance			1				36/54
RADIOS							
VHF, Manpack, Low-Power	1	2	18		1	1	23
VHF, Portable, Very-Low-Power	1						1
VHF, Vehicle Mount, Medium-Power	1	3	45/63	3			52/70
HF, Manpack, Low-Power		2		1			3
HF, Vehicle Mount, Medium-Power	1						1
HF/VHF, Vehicle Mount, Medium-Power	3						3
HF/VHF, Vehicle Mount, High-Power	1						1
Radio Relay, VHF/UHF	1	1	3				5
Warning Receiver	2		12				14
MISCELLANEOUS							
Btry CP/Missile Guidance Vehicle (TELAR Chassis)**			9				9
Bn CP Vehicle (TELAR Chassis)			3				3
Bde CP Vehicle (TELAR Chassis)	1						1
Tgt Acq Radar Vehicle (TELAR Chassis)		2	6				8
SA-12a Missile Transloader (TELAR Chassis)***			9/18				9/18
SA-12b Missile Transloader (TELAR Chassis)***			9				9
SA-12a/b Missile Transporter (Tractor-Trailer)			27				27

* The standard SA-12 brigade has three battalions. However, the brigade headquarters is capable of controlling up to four battalions. The equipment totals here are for the standard three-battalion structure. Totals listed as multiple numbers (such as 9/18) reflect the numbers of that particular piece of equipment when missile firing batteries have one or two SA-12a missile firing platoons, respectively.

** This vehicle carries the GRILL PAN radar, which appears separately in this list.

*** This system is a combination loader and launcher.

SAM Battalion (SA-12), SAM Bde (SA-12)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
SAM, SA-12a/GLADIATOR TELAR**	6/12
SAM, SA-12b/GIANT TELAR**	6
SA-12a Missile Transloader (TELAR Chassis)***	3/6
SA-12b Missile Transloader (TELAR Chassis)***	3
Battery CP/Missile Guidance Vehicle (TELAR Chassis)****	3
Battalion CP Vehicle (TELAR Chassis)	1
Target Acquisition Radar Vehicle	2
SA-12a/b Missile Transporter (Tractor-Trailer)	3
23-mm AA Gun, ZU-23	8
Truck, Utility	3
Truck, Light	8
Truck, Medium	4
Truck, Crane	1
Truck, POL (5,000-Liter)	3

Equipment	Total *
Van, Maintenance	2
Van, Signal	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	2
Trailer, Generator	2
Trailer, Kitchen	1
Trailer, POL (4,200-Liter)	3
Trailer, Water (1,200-Liter)	1
Radars:	
Target Acquisition, BILL BOARD	1
Target Acquisition, HIGH SCREEN	1
Target Engagement, GRILL PAN	3
Missile-Tracking and Guidance	12/18
Radios:	
VHF, Manpack, Low-Power	6
VHF, Vehicle Mount, Medium-Power	18/24
Radio Relay, VHF/UHF	1
Warning Receiver	4

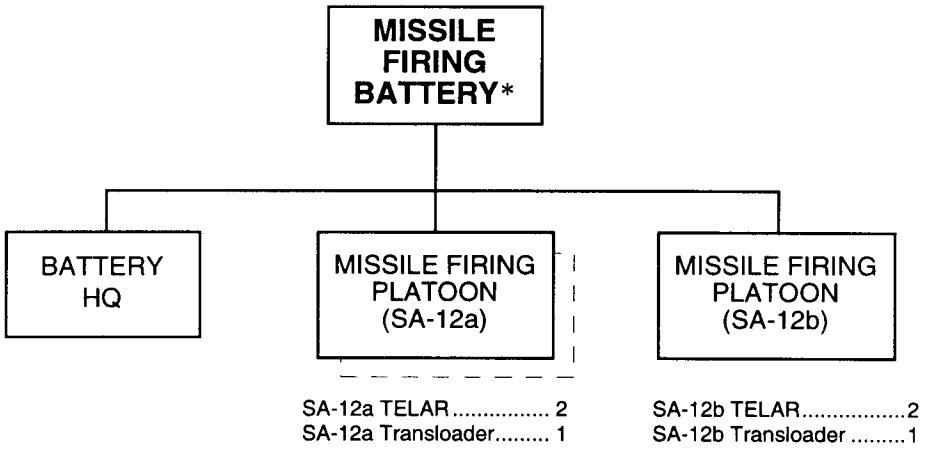
* The standard battalion has three missile firing batteries. Although a fourth battery is possible, the totals here are for the three-battery standard. Totals listed with multiple numbers (such as 6/12) reflect the numbers of that particular piece of equipment in the battalion when each battery has one or two SA-12a platoons, respectively. If individual missile firing batteries have an AA gun section of two 23-mm AA guns, ZU-23, the battalion may also have one AA gun section instead of an entire AA gun battery.

** Each TELAR includes a missile-tracking and guidance radar, which appears separately in this list.

*** This system is a combination loader and launcher with no onboard radar.

**** This vehicle carries the GRILL PAN radar, which appears separately in this list.

Missile Firing Battery, SAM Bn (SA-12)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total *
SAM, SA-12a/GLADIATOR TELAR**	2/4
SAM, SA-12b/GIANT TELAR**	2
SA-12a Missile Transloader (TELAR Chassis)***	1/2
SA-12b Missile Transloader (TELAR Chassis)***	1
Battery CP/Missile Guidance Vehicle (TELAR Chassis)****	1

Equipment	Total *
Radars:	
Target Engagement, GRILL PAN	1
Missile-Tracking and Guidance	4/6
Radios:	
VHF, Vehicle Mount, Medium-Power	5/7
Warning Receiver	1

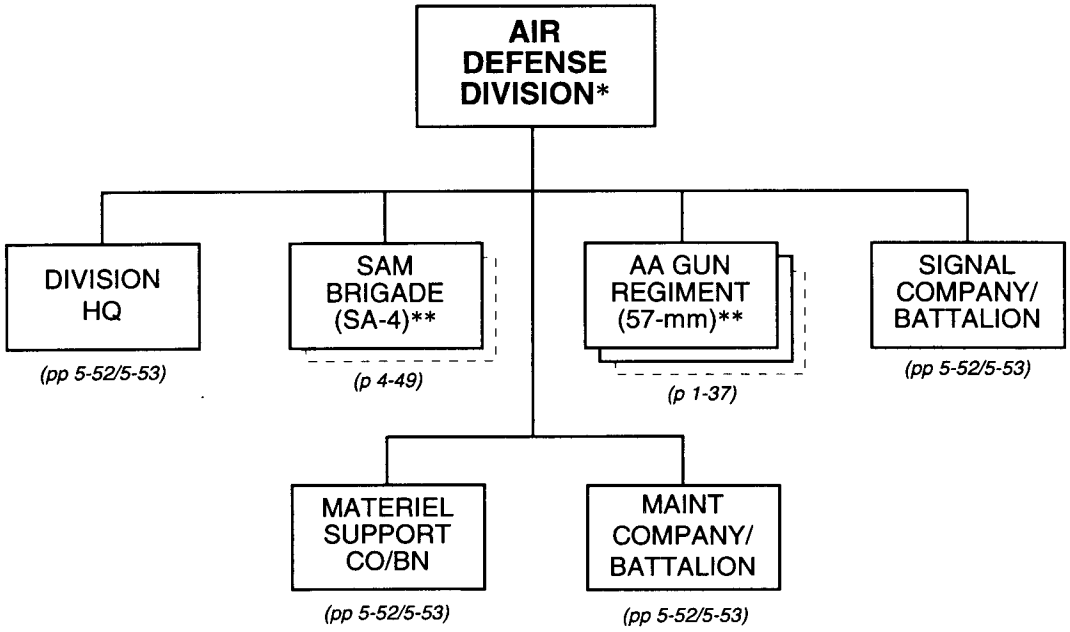
* The standard battery has two missile firing platoons, one SA-12a platoon and one SA-12b platoon. However, the GRILL PAN is capable of controlling a third platoon that, if present, would have the SA-12a. Totals listed with multiple numbers (such as 2/4) reflect the numbers of that particular piece of equipment in a battery with one or two SA-12a platoons, respectively. Some batteries may have an AA gun section with two 23-mm AA guns, ZU-23. In that case, there would be no more than one AA gun section (rather than an entire AA gun battery) at battalion level.

** Each TELAR includes an (unidentified) missile-tracking and guidance radar, which appears separately in this list.

*** This system is a combination loader and launcher with no onboard radar. It carries four GLADIATOR or two GIANT missiles in launch tubes ready to fire from the transloader (when slaved to a TELAR) or to reload a TELAR.

**** This vehicle serves as the battery command post (CP) and also carries the GRILL PAN missile-tracking and guidance radar, which appears separately in this list.

Air Defense Division, Army Group



* The purpose of the air defense division is to provide air defense of critical rear area assets in the army group. While its SAM and AA gun systems may be mobile, they operate from fixed sites around the protected rear area assets. The army group normally does not allocate these air defense assets to support subordinate armies or corps. However, the number of SAM brigades and AA gun regiments in the air defense division corresponds to the size of the army group. The equipment list on p 5-52 reflects the holdings of the smallest possible division, with one SAM brigade and two AA gun regiments. The list on p 5-53 reflects the maximum equipment holdings, with a division of two SAM brigades and three AA gun regiments. Whether the signal, materiel support, and maintenance elements are company- or battalion-size depends on the number of brigades and regiments in the division.

** For high-altitude air defense, some air defense divisions might use SA-2 SAM regiments rather than SA-4 brigades. For details on SA-2 regiment structure, see FM 100-63.

*** Some AA gun regiments at army group level may have the 100-mm AA gun, KS-19.

(continued)

Air Defense Division (Minimum), Army Group (continued)

Principal Items of Equipment	*Division HQ*	*SAM Bde (SA-4)*	*57-mm AA Gun Regt (x2)*	*Signal Co*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
ARMORED VEHICLES							
APC, BTR-60/70/80	3						3
APC, BTR-60 (PU-12)	2	13	4				19
AVC, BTR (R-145BM)				8			8
Fire Control Radar Vehicle (TEL Chassis)*		9					9
Tgt Acq Radar Vehicle**	2	5					7
Chem Recon Vehicle, BRDM-2RKh		3	2				5
WEAPONS							
57-mm AA Gun, S-60			48				48
23-mm AA Gun, ZU-23		24					24
SAM, SA-4/GANEF TEL		27					27
SAM, Shoulder-Fired*	6	3	30				39
TRUCKS							
Truck, Utility	12	16	14	5	3	1	51
Truck, Light	9	31	16	3	2	1	62
Truck, Medium	4	40	138		25	3	210
Truck, Decon, ARS-12U/14		3					3
Truck, Decon, DDA-53/66		1	2				3
Truck, Crane		4	2			1	7
Truck, POL (5,000-L)	1	12	12		3		28
Truck, Water (2,000-L)		4	2		2		8
Van, Command	12	9					21
Van, Computer		1					1
Van, Maintenance	1	17	8		2	8	36
Van, Medium	4	2	4				10
Van, Radar***		1	12				13
Van, Signal	2	6	10	5			23
Ambulance	2	2	6				10
TRAILERS							
Trailer, Cargo, 1-Axle	4	4					8
Trailer, Cargo, 2-Axle		15	10		5	3	33
Trailer, Generator	3	15	18	1	2	2	41
Trailer, Kitchen	3	9	16		3	1	32
Trailer, POL (4,200-L)		12	4		3		19
Trailer, POL (1,200-L)	1		8				9
Trailer, Van	8	17	8				33
Trailer, Water (900-/1,200-L)	1	7	14		1	1	24
RADARS							
Radar, Tgt Acq, LONG TRACK	2	5					7
Radar, Aerial Surv/Tgt Acq, FLAT FACE	2		4				6
Radar, Fire Control, FLAP WHEEL			8				8
Radar, Fire Control, PAT HAND		9					9
Radar, Height-Finding, THIN SKIN		1					1

* This vehicle carries the PAT HAND fire control radar, which appears separately in this list.

** This vehicle carries the LONG TRACK target acquisition radar, which appears separately in this list.

*** This vehicle carries the THIN SKIN height-finding radar in a SAM brigade and the FLAT FACE aerial surveillance/target acquisition radar or FLAP WHEEL fire control radar in an AA gun regiment.

(continued)

Air Defense Division (Minimum), Army Group (continued)

Principal Items of Equipment	*Division HQ*	*SAM Bde (SA-4)*	*57-mm AA Gun Regt (x2)*	*Signal Co*	*Materiel Support Co*	*Maintenance Co*	*TOTAL*
RADIOS							
VHF, Manpack, Low-Power	2	32	56	7	1	1	99
VHF, Portable, Low-Power		9					9
VHF, Portable, Very-Low-Power	2	1	26				29
VHF, Vehicle Mount, Medium-Power	5	7	4				16
HF, Manpack, Low-Power		3	2	2			7
HF, Vehicle Mount, Medium-Power	1		2	8			11
HF/VHF, Vehicle Mount, Medium-Power	7	3	14	5			29
HF/VHF, Vehicle Mount, High-Power	3	1	6	3			13
Radio Relay, VHF/UHF	2	5	2	2			11
Warning Receiver	4	14	14	3			35
MISCELLANEOUS							
SA-4 Missile Transloader (Medium Truck)		27					27
SA-4 Missile Transporter (Tractor-Trailer)		9					9
Motorcycle				3			3

Air Defense Division (Maximum), Army Group (continued)

Principal Items of Equipment	*Division HQ*	*SAM Bde (SA-4) (x2)*	*57-mm AA Gun Regt (x3)*	*Signal Bn*	*Materiel Support Bn*	*Maintenance Bn*	*TOTAL*
ARMORED VEHICLES							
APC, BTR-60/70/80	3						3
APC, BTR-60 (PU-12)	2	26	6				34
ACV, BTR (R-145BM)				8			8
Fire Control Radar Vehicle (TEL Chassis)*		18					18
Tgt Acq Radar Vehicle**	2	10					12
Armored Recovery Vehicle						5	5
Chem Recon Vehicle, BRDM-2RKh		6	3				9
WEAPONS							
57-mm AA Gun, S-60			72				72
23-mm AA Gun, ZU-23		48					48
SAM, SA-4/GANEF TEL		54					54
SAM, Shoulder-Fired*	6	6	45		3	3	63

* This vehicle carries the PAT HAND fire control radar, which appears separately in this list.

** This vehicle carries the LONG TRACK target acquisition radar, which appears separately in this list.

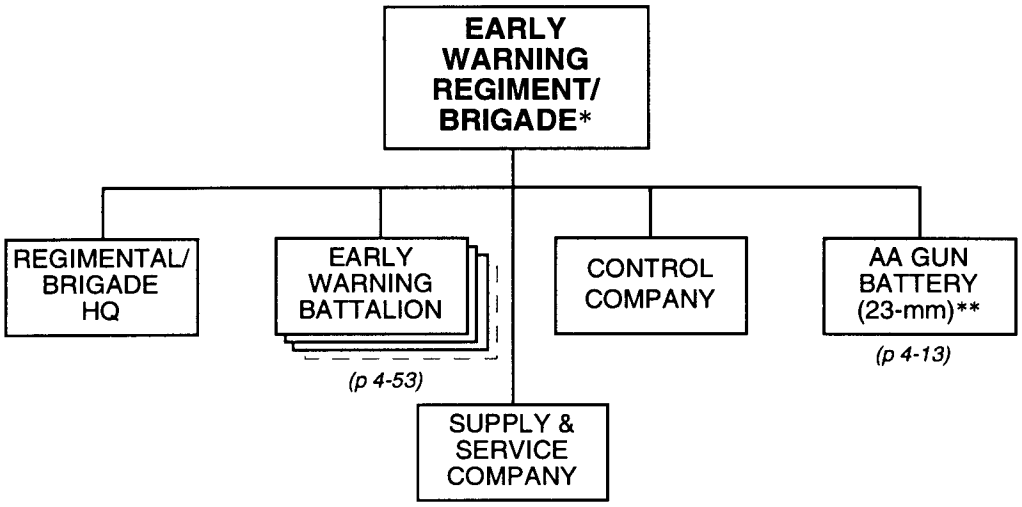
(continued)

Air Defense Division (Maximum), Army Group (continued)

Principal Items of Equipment	*Division HQ*	*SAM Bde (SA-4) (x2)*	*57-mm AA Gun Regt (x3)*	*Signal Bn*	*Materiel Support Bn*	*Maintenance Bn*	*TOTAL*
TRUCKS							
Truck, Utility	12	32	21	12	7	6	90
Truck, Light	9	62	24	7	6	4	112
Truck, Medium	4	80	207	9	75	9	384
Truck, Decon, ARS-12U/14		6					6
Truck, Decon, DDA-53/66		2	3				5
Truck, Crane		8	3	3	6	3	23
Truck, POL (5,000-L)	1	24	18		9	2	54
Truck, Recovery						2	2
Truck, Water (2,000-L)		8	3		6		17
Van, Command	12	18					30
Van, Computer		2					2
Van, Maintenance	1	34	12	4	6	24	81
Van, Medium		4	6				10
Van, Radar*		2	18				20
Van, Signal	2	12	15	33	1		63
Ambulance	2	4	9	1			16
TRAILERS							
Trailer, Cargo, 1-Axle	4	8		10			22
Trailer, Cargo, 2-Axle		30	15		75	9	129
Trailer, Generator	3	30	27	10	6	6	82
Trailer, Kitchen	3	18	24	2	6	3	56
Trailer, POL (4,200-L)		24	6	3	9	2	44
Trailer, POL (1,200-L)	1		12				13
Trailer, Van	8	34	12				54
Trailer, Water (900-/1,200-L)	1	14	21	1	3	3	43
RADARS							
Radar, Tgt Acq, LONG TRACK	2	10					12
Radar, Aerial Surv/Tgt Acq, FLAT FACE	2		6				8
Radar, Fire Control, FLAP WHEEL			12				12
Radar, Fire Control, PAT HAND		18					18
Radar, Height-Finding, THIN SKIN		2					2
RADIOS							
VHF, Manpack, Low-Power	2	64	84	20	4	4	178
VHF, Portable, Low-Power		18					18
VHF, Portable, Very-Low-Power	2	2	39				43
VHF, Vehicle Mount, Medium-Power	5	14	6	6		6	37
HF, Manpack, Low-Power		6	3	5	1		15
HF, Vehicle Mount, Medium-Power	1		3	8		1	13
HF/VHF, Vehicle Mount, Medium-Power	7	6	21	7	1	1	43
HF/VHF, Vehicle Mount, High-Power	3	2	9	8			22
Radio Relay, VHF/UHF	2	10	3	6			21
Communications Center				2			2
Warning Receiver	4	28	21	3	1	1	58
MISCELLANEOUS							
SA-4 Missile Transloader (Medium Truck)		54					54
SA-4 Missile Transporter (Tractor-Trailer)		18					18
Tracked Amphibian, K-61/PTS						1	1
Tractor, Artillery, AT-S						1	1
Motorcycle				13		3	16

* This vehicle carries the THIN SKIN height-finding radar in a SAM brigade and the FLAT FACE aerial surveillance/target acquisition radar or FLAP WHEEL fire control radar in an AA gun regiment.

Early Warning Regiment/Brigade, Army Group



PRINCIPAL ITEMS OF EQUIPMENT

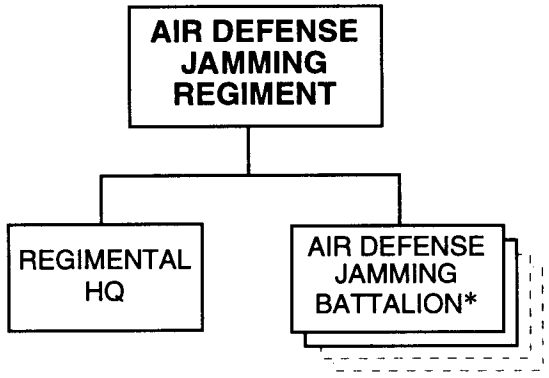
Equipment	Total *
Radars:	
Aerial Surveillance/Target Acquisition, LONG TRACK	12/16
EW/GCI, BAR LOCK or TIN SHIELD	6/8
Height-Finding, SIDE NET or ODD PAIR	6/8 ***
Height Finding, THIN SKIN	12/16
Target Acquisition, FLAT FACE	12/16
Target Acquisition, SPOON REST	12/16
Target Acquisition, SQUAT EYE	12/16
Van, Automated Radar Control System	16/20
23-mm AA Gun, ZU-23**	24/30

* An early warning regiment normally has three early warning battalions; a brigade has four. Totals listed here with multiple numbers (such as 12/16) reflect the numbers of that particular piece of equipment in a regiment or brigade, respectively.

** Instead of an AA gun battery, some early warning regiments/brigades may have a platoon of shoulder-fired SAMs (see p 3-11).

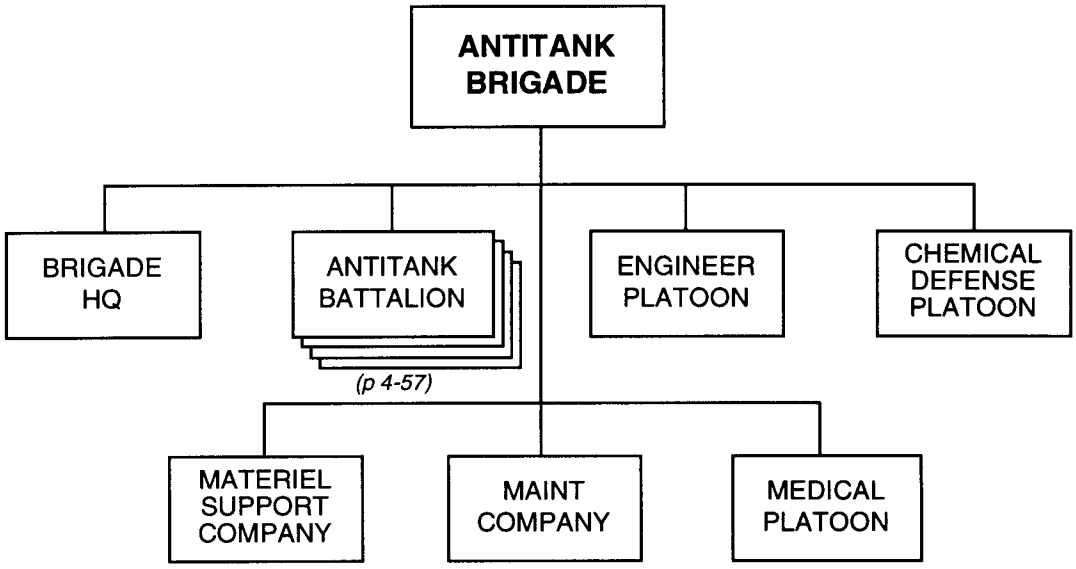
*** Units equipped with 3D radars, such as TIN SHIELD or modernized BAR LOCK, do not require an accompanying height-finding radar.

Air Defense Jamming Regiment, Army Group



* Common practice is to allocate an air defense jamming battalion to each army or corps in the army group's main effort. Remaining battalions may protect other high-priority army group assets. Each battalion can have up to 54 air defense jammers, along with supporting target acquisition systems.

Antitank Brigade, Army Group



Principal Items of Equipment	*Brigade HQ*	*Antitank Bn (x4)*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Spt Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES								
APC, BTR-60/70/80	1							1
ACV, BTR (R-145BM)	2							2
ACV, MT-LBu	1	20						21
Prime Mover, MT-LBT		84						84
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1			3				4
Mobile Recon Post, PRP-3/4*	1	4						5
Armored Recovery Vehicle						1		1
WEAPONS								
125/100-mm AT Gun, 2A45/MT-12		72						72
ATGM Vehicle, 9P149 w/ AT-6/SPIRAL		36						36
ATGL, RPG-7V	4	36				4		44
SAM, Shoulder-Fired	3							3

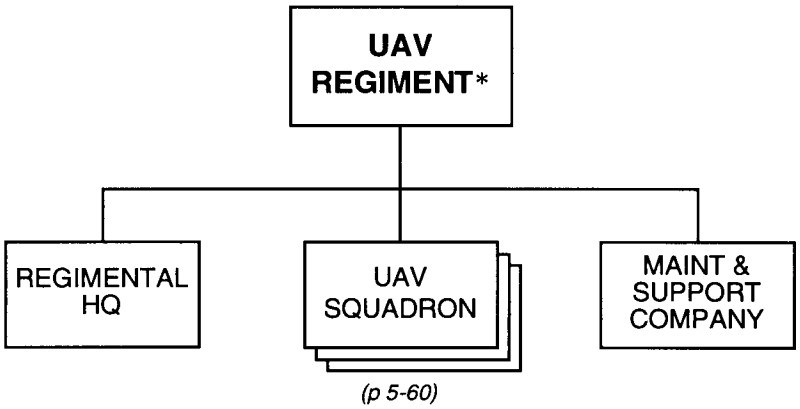
* This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

(continued)

Antitank Brigade, Army Group (continued)

Principal Items of Equipment	*Brigade HQ*	*Antitank Bn (x4)*	*Engineer Plt*	*Chem Defense Plt*	*Materiel Spt Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ENGINEER EQUIPMENT								
Route-Clearing Vehicle, BAT/PKT			2					2
Ditching Machine, BTM/MDK			2					2
TRUCKS								
Truck, Utility	6	12	1		1	1		21
Truck, Light	2	16	6		1		1	26
Truck, Medium	1	52			30	3	2	88
Truck, Crane Shovel			2					2
Truck, Decon, ARS-12U/14				3				3
Truck, Decon, DDA-53/66				1			1	2
Truck, Dump			1					1
Truck, POL (5,000-L)		12			6			18
Truck, Water (2,000-L)				2				2
Van, Hospital							1	1
Van, Maintenance		8			2	6		16
Van, Signal	2	8						10
Ambulance		4					4	8
TRAILERS								
Trailer, Cargo, 1-Axle			1					1
Trailer, Cargo, 2-Axle	1	44			20	3		68
Trailer, Generator	2	4	1			2		9
Trailer, Kitchen	1	4					1	6
Trailer, POL (4,200-L)		12			6			18
Trailer, POL (1,200-L)		8						8
Trailer, Water (900/1,200-L)	1	4		2	2		1	10
RADARS								
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		16						16
RADIOS								
VHF, Manpack, Low-Power	6	44			1	1	1	53
VHF, Portable, Very- Low-Power	1							1
VHF, Vehicle Mount, Medium-Power	6	144	4	3				157
HF, Manpack, Low-Power	1		1	1				3
HF, Vehicle Mount, Medium-Power	5	4						9
HF/VHF, Vehicle Mount, Medium-Power	3	12						15
HF/VHF, Vehicle Mount, High-Power	1							1
Radio Relay, VHF/UHF	1	4						5
Warning Receiver	1	4						5
MISCELLANEOUS								
Rangefinder, Laser	1	16						17

UAV Regiment, Army Group



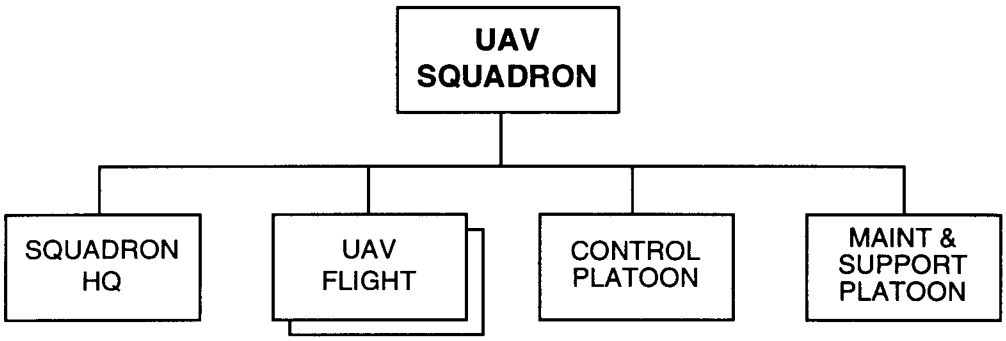
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
UAV Launch Vehicle	12
UAV (RPV/Drone), Multimission	24
RPV Recovery Vehicle	6
Launcher Support Vehicle	6
Van, Mission Control	4
Ground Control Station	6
Support Vehicles	9
SAM, Shoulder-Fired	24
Truck, Utility	14
Truck, Medium	4
Truck, Light	11
Truck, POL (4,000-Liter)	7

Equipment	Total
Van, Maintenance	4
Trailer, Generator	17
Trailer, Kitchen	4
Trailer, POL (1,200-Liter)	3
Trailer, Water (900-Liter)	4
Radios:	
VHF, Manpack, Low-Power	45
VHF, Vehicle Mount, Medium-Power	17
HF, Vehicle Mount, Medium-Power	4
Warning Receiver	4

* The General Staff may allocate part or all of the UAV regiment to support military operations of an army, corps, or army group.

UAV Squadron, UAV Regt

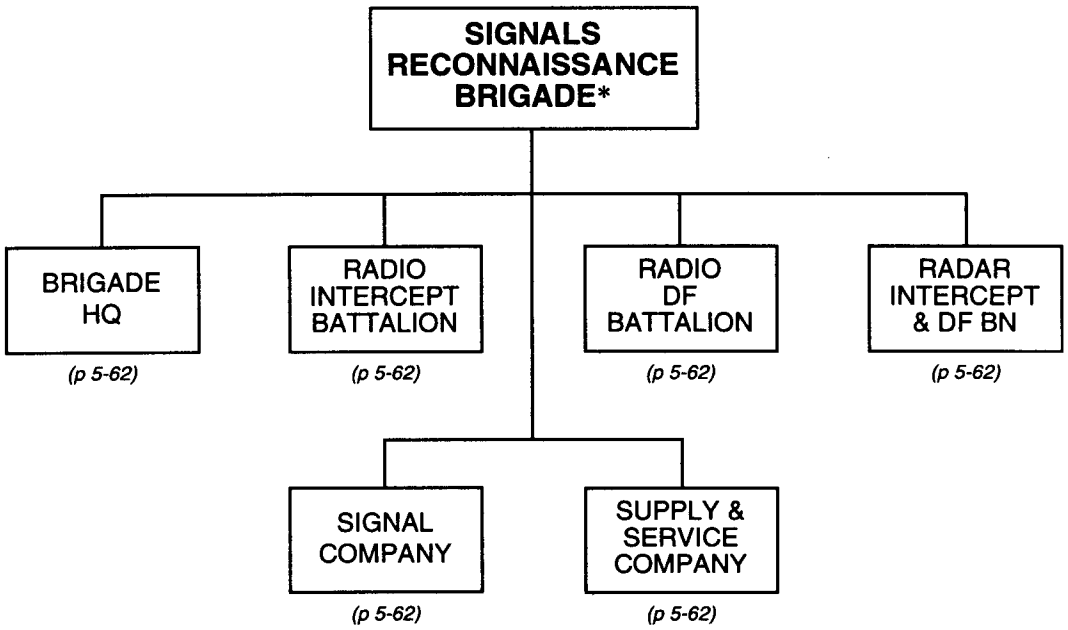


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
UAV Launch Vehicle	4
UAV (RPV/Drone), Multimission	8
RPV Recovery Vehicle	2
Launcher Support Vehicle	2
Van, Mission Control	1
Ground Control Station	2
Support Vehicles	3
SAM, Shoulder-Fired	6
Truck, Utility	4
Truck, Medium	1
Truck, Light	3
Truck, POL (4,000-Liter)	2

Equipment	Total
Van, Maintenance	1
Trailer, Generator	5
Trailer, Kitchen	1
Trailer, POL (1,200-Liter)	1
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	13
VHF, Vehicle Mount, Medium-Power	5
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

Signals Reconnaissance Brigade, Army Group



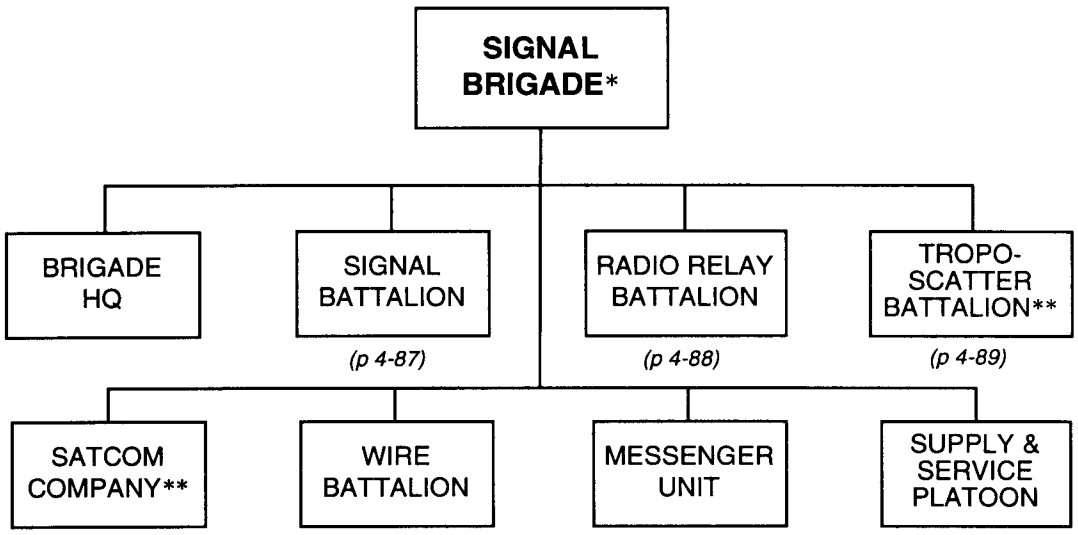
* This brigade differs from a signals reconnaissance regiment (p 4-63) primarily by having three battalions with separate functions. The regiment has essentially the same assets but deploys them in mixed battalions.

(continued)

Signals Reconnaissance Brigade, Army Group (continued)

Principal Items of Equipment	*Brigade HQ*	*Radio Intercept Bn*	*Radio DF Bn*	*Radar Intercept/DF Bn*	*Signal Co*	*Supply & Service Co*	*TOTAL*
ARMORED VEHICLES							
ACV, BTR (R-145BM)	2	1	1	1	8		13
Chemical Recon Vehicle, BRDM-2RKh/RKhM	1	1	1	1			4
WEAPONS							
SAM, Shoulder-Fired	3	3	3	3			12
ELECTRONIC COMBAT SYSTEMS							
Radio Intercept System		36					36
Radio DF			27				27
Radar Intercept/DF				27			27
TRUCKS							
Truck, Utility	6	5	5	5	5	2	28
Truck, Light	2	7	7	7	3		26
Truck, Medium	1	1	1	1		10	14
Truck, POL (5,000-L)		2	2	2		2	8
Truck, Water (2,000-L)						1	1
Van, Command		3	3	3			9
Van, Maintenance	1	4	4	4		4	17
Van, Signal	2	2	2	2	5		13
Ambulance		1	1	1		1	4
TRAILERS							
Trailer, Cargo, 2-Axle	1	1	1	1		5	9
Trailer, Generator	2	6	6	6	1	2	23
Trailer, Kitchen	1	4	4	4		3	16
Trailer, POL (4,200-L)		2	2	2		2	8
Trailer, Water (900-L)	1	4	4	4		3	16
RADIOS							
VHF, Manpack, Low-Power	6	6	6	6	7	2	33
VHF, Vehicle Mount, Medium-Power	5	38	29	29	8		109
HF, Manpack, Low-Power	1	1	1	1	2	1	7
HF, Vehicle Mount, Medium-Power	5				8		13
HF/VHF, Vehicle Mount, Medium-Power	3	3	3	3			12
HF/VHF, Vehicle Mount, High-Power	1	1	1	1	3		7
Radio Relay, VHF/UHF	1	1	1	1	2		6
Warning Receiver	1	1	1	1	3		7

Signal Brigade, Army Group



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Radio Stations***:	
HF, Vehicle Mount, High-Power	3
HF/VHF, Vehicle Mount, High-Power	3

Equipment	Total	
Radio Relay Stations****:		
VHF/UHF	12-15	
UHF	9-12	
Troposcatter, SHF	9-15	**
SATCOM, UHF/SHF	3	**

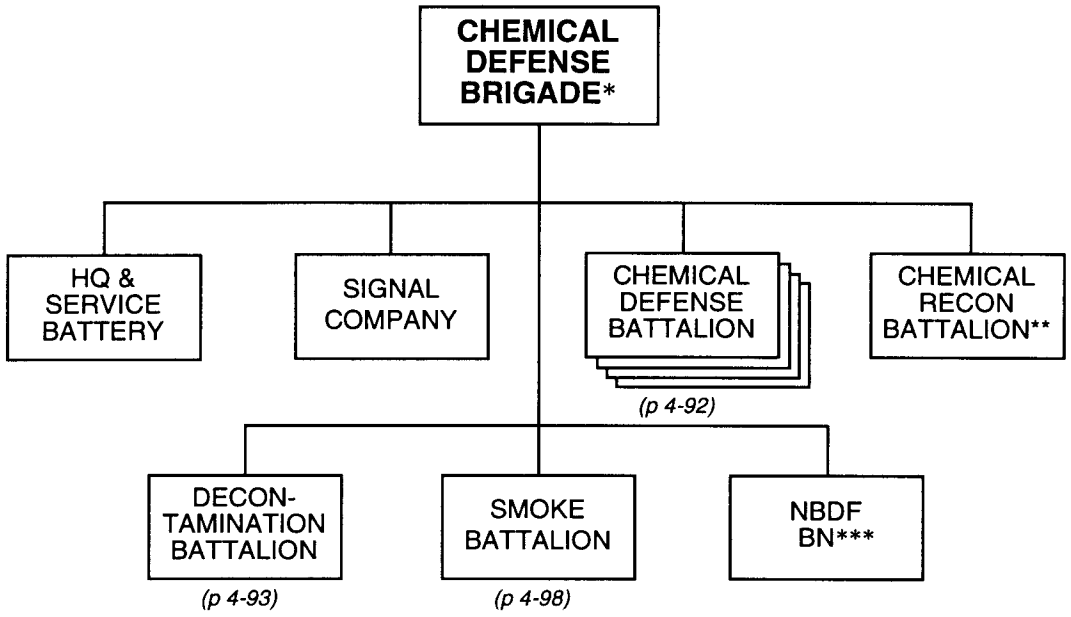
* An army group headquarters normally task-organizes the assets of the signal regiment's subordinate units to support its formation of forward, main, alternate, and rear CPs.

** The army group can allocate assets from the troposcatter battalion and/or satellite communications (SATCOM) company to a subordinate army, corps, division, or separate brigade if required.

*** Each HF or HF/VHF radio station normally occupies a single box-body truck. However, some variants of the HF/VHF station may use an armored vehicle instead of a truck.

**** Depending on the specific radio station model, each VHF/UHF radio relay station comprises one to two box-body trucks. Each UHF radio relay station comprises one to three box-body trucks. Each SHF troposcatter radio relay station comprises one or two box-body trucks. SATCOM stations also comprise one or several box-body trucks.

Chemical Defense Brigade, Army Group

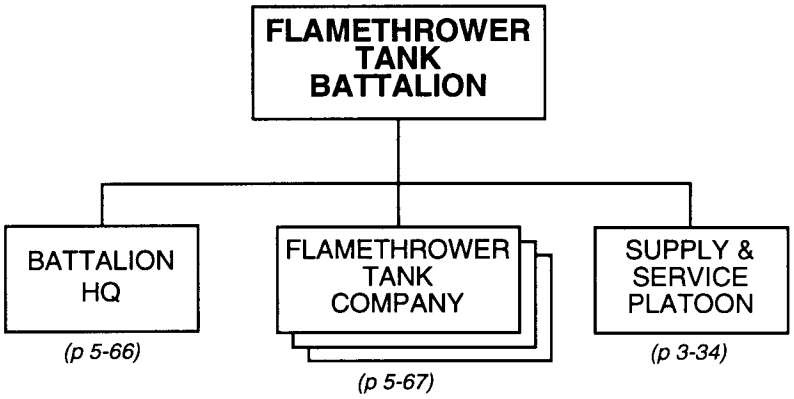


* In lieu of a chemical defense brigade, an army group may have separate battalions of the same types that normally comprise such a brigade.

** This battalion also performs radiological (nuclear) and biological reconnaissance, as required.

*** Nuclear burst direction-finding (NBDF) battalion.

Flamethrower Tank Battalion, Army Group



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Flamethrower Tank, TO-55	31
ACV, BMP-1K/2K/3K	1
ACV, BTR (R-145BM)	1
9-mm Pistol, PM	110
5.45-mm Assault Rifle, AKS-74	50
ATGL, RPG-7V	2
Truck, Medium	7
Truck, POL (5,000-Liter)	5
Van, Kitchen	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Cargo, 2-Axle	6

Equipment	Total
Trailer, Generator	1
Trailer, POL (4,200-Liter)	4
Trailer, Water (900-Liter)	1
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	33
HF, Manpack, Low-Power	2
HF, Vehicle Mount, Medium-Power	6
Warning Receiver	1

Battalion Headquarters,
Flamethrower Tank Bn _____

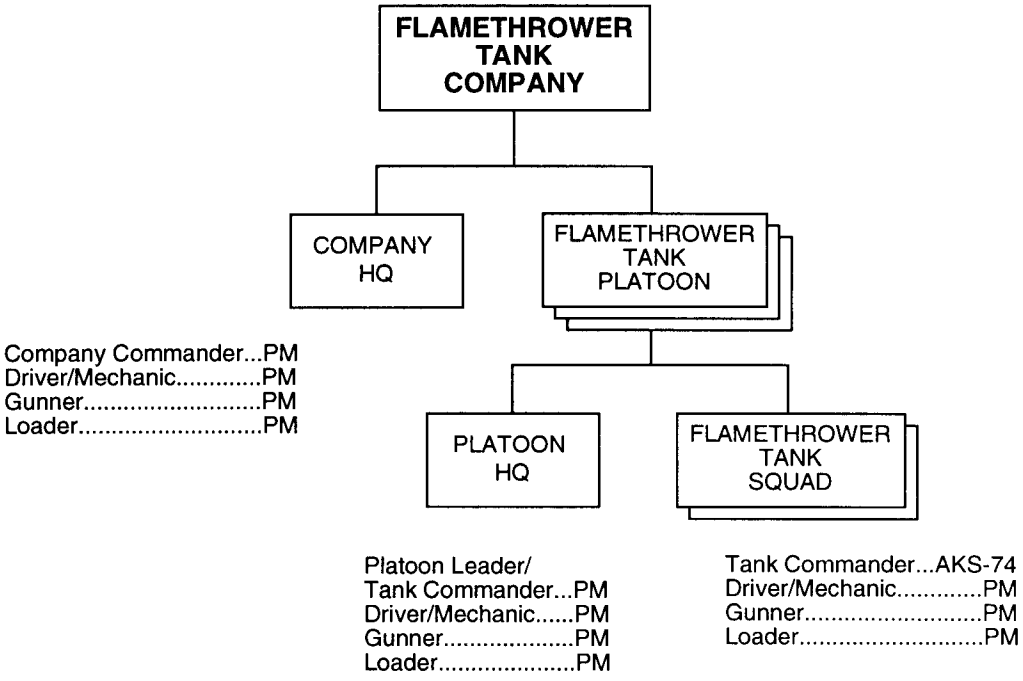
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Flamethrower Tank, TO-55	1
ACV, BTR (R-145BM)	1
ACV, BMP-1K/2K/3K	1
9-mm Pistol, PM	7
5.45-mm Assault Rifle, AKS-74	8
ATGL, RPG-7V	2
Night-Vision Sight (Small Arms)	2

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	3
HF, Vehicle Mount, Medium-Power	3
HF, Manpack, Low-Power	1
Warning Receiver	1

Flamethrower Tank Company, Flamethrower Tank Bn

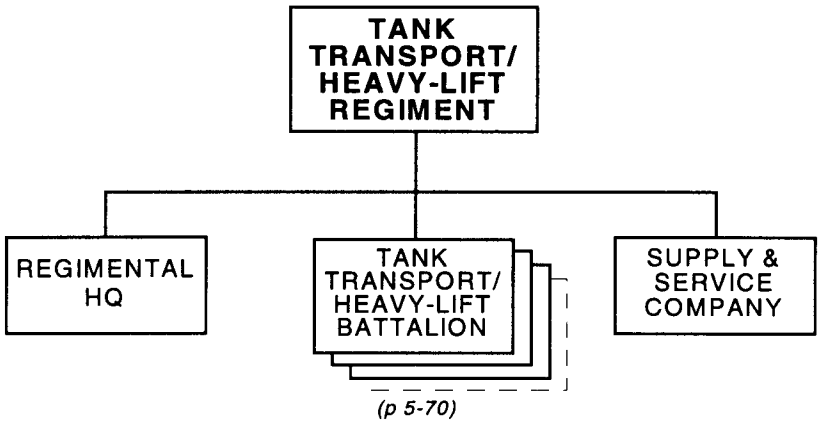


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Flamethrower Tank, TO-55	10
9-mm Pistol, PM	34
5.45-mm Assault Rifle, AKS-74	6

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	10
HF, Vehicle Mount, Medium-Power	1

Tank Transport/Heavy-Lift Regiment, Army or Army Group



(p 5-70)

Tank Transport/Heavy-Lift Regiment, (3-Battalion Structure)

Principal Items of Equipment	*Regimental HQ*	*Tank Transport/ Heavy-Lift Bn (x3)*	*Supply & Svc Co*	*TOTAL*
WEAPONS				
ATRL, RPG-22/26*		33/42/51	2	35/44/53
SAM, Shoulder-Fired	3	9		12
TRUCKS				
Truck, Utility	2	15		17
Truck, Light		9	3	12
HET (Tractor-Trailer)*		297/396/495		297/396/495
Truck, Crane		12	1	13
Truck, POL (7,000-L)*		21/27/33		21/27/33
Truck, Water (2,000-L)		18	6	24
Van, Kitchen		6	2	8
Van, Maintenance	1	33	10	44
Van, Mobile Field Bakery			4	4
Van, Signal	3	3		6
Ambulance		3	1	4
TRAILERS				
Trailer, Cargo, 1-Axle	2	12	2	16
Trailer, Cargo, 2-Axle		6	2	8
Trailer, Generator	1	18	6	25
Trailer, POL (5,800-L)*		21/27/33		21/27/33
Trailer, Water (900-/1,200-L)		9	7	16
RADIOS				
VHF, Manpack, Low-Power		9		9
HF, Manpack, Low-Power	1	3		4
HF/VHF, Vehicle Mount, Medium-Power	1	3		4
HF/VHF, Vehicle Mount, High-Power	1			1
Radio Relay, VHF/UHF	1			1
Warning Receiver	1	3		4

* Totals reflect tank transport/heavy-lift battalions with companies of three, four, and five platoons, respectively.

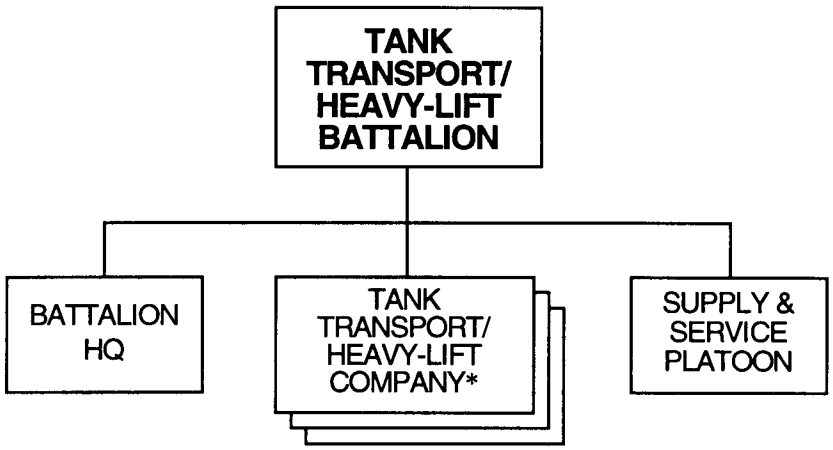
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Tank Transport/Heavy-Lift Regiment, Army or Army Group (4-Battalion Structure)

Principal Items of Equipment	*Regimental HQ*	*Tank Transport/ Heavy-Lift Bn (x4)*	*Supply & Svc Co*	*TOTAL*
WEAPONS				
ATRL, RPG-22/26*		44/56/68	2	46/58/70
SAM, Shoulder-Fired	3	12		15
TRUCKS				
Truck, Utility	2	20		22
Truck, Light		12	3	15
HET (Tractor-Trailer)*		396/528/660		396/528/660
Truck, Crane		16	1	17
Truck, POL (7,000-L)*		28/36/44		28/36/44
Truck, Water (2,000-L)		24	6	30
Van, Kitchen		8	2	10
Van, Maintenance	1	44	10	55
Van, Mobile Field Bakery			4	4
Van, Signal	3	4		7
Ambulance		4	1	5
TRAILERS				
Trailer, Cargo, 1-Axle	2	16	2	20
Trailer, Cargo, 2-Axle		8	2	10
Trailer, Generator	1	24	6	31
Trailer, POL (5,800-L)*		28/36/44		28/36/44
Trailer, Water (900-/1,200-L)		12	7	19
RADIOS				
VHF, Manpack, Low-Power		12		12
HF, Manpack, Low-Power	1	4		5
HF/VHF, Vehicle Mount, Medium-Power	1	4		5
HF/VHF, Vehicle Mount, High-Power	1			1
Radio Relay, VHF/UHF	1			1
Warning Receiver	1	4		5

* Totals reflect tank transport/heavy-lift battalions with companies of three, four, and five platoons, respectively.

Tank Transport/Heavy-Lift Battalion,
Tank Transport/Heavy-Lift Regt or Mat Spt Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total **
ATRL, RPG-22/26	11/14/17
SAM, Shoulder-Fired	3
HET (Tractor-Trailer)	99/132/165
Truck, Utility	5
Truck, Light	3
Truck, Crane	4
Truck, POL (7,000-Liter)	7/9/11
Truck, Water (2,000-Liter)	6
Van, Kitchen	2
Van, Maintenance	11
Van, Signal	1
Ambulance	1

Equipment	Total **
Trailer, Cargo, 1-Axle	4
Trailer, Cargo, 2-Axle	2
Trailer, Generator	6
Trailer, POL (5,800-Liter)	7/9/11
Trailer, Water (1,200-Liter)	3
Radios:	
VHF, Manpack, Low-Power	3
HF, Manpack, Low-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

* A tank transport/heavy-lift company may have three, four, or five platoons of 11 heavy equipment transporters (HETs) each. Thus, company strength can vary from 33 to 55 HETs.

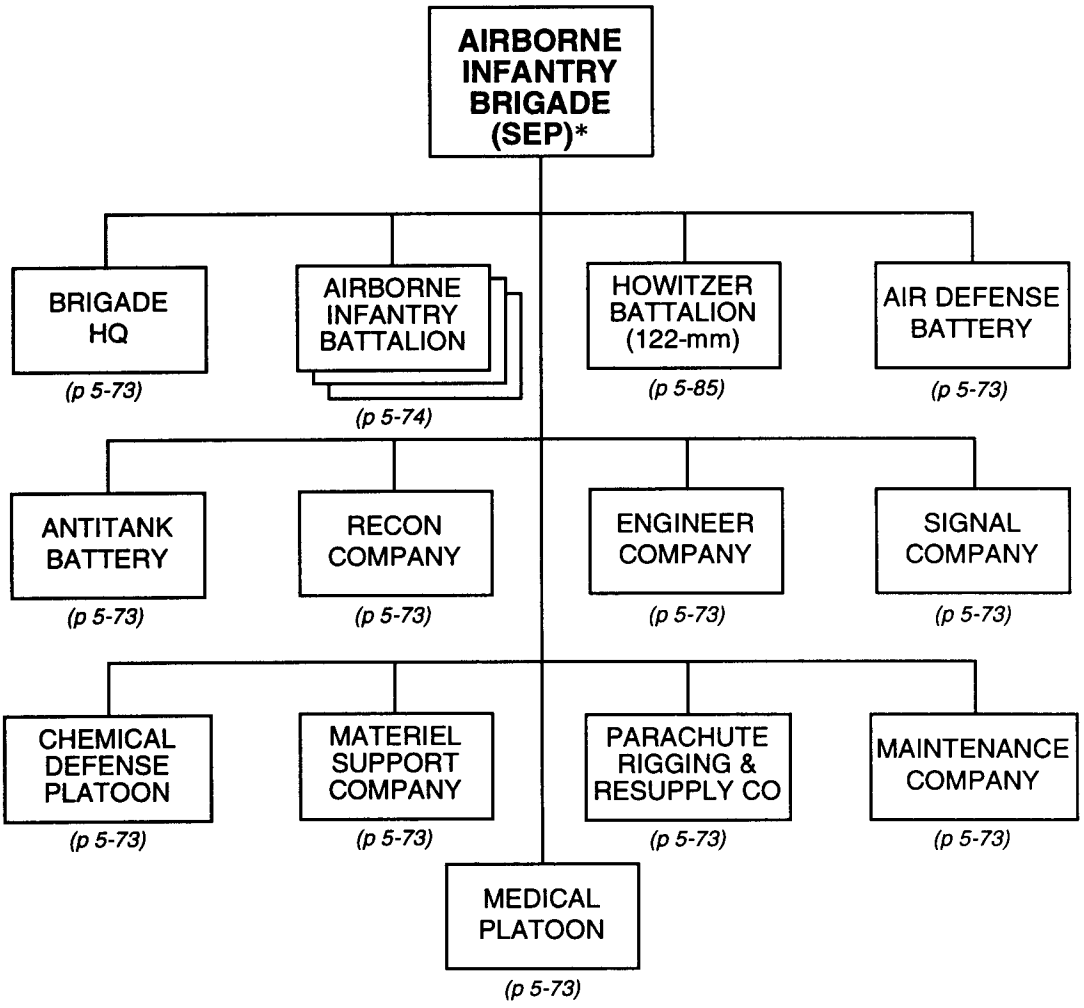
** Totals listed with multiple numbers (such as 99/132/165) reflect the numbers of that particular piece of equipment in a battalion with companies of three, four, or five platoons, respectively.

Airborne Forces

Airborne forces are directly subordinate to the Supreme High Command, with operational control exercised by the General Staff. The General Staff may allocate airborne units to theater commands and possibly, in turn, to army groups or armies for specific missions. Other airborne units would remain under Supreme High Command control.

A separate airborne infantry brigade (p 5-72) may be under operational control of an army group, although not organic to it. Higher command may allocate additional forces from an airborne division (p 5-87) to support an army group in a given operation; these are normally brigade-size elements equipped with IFVs (p 5-89). The army group commander may further allocate an airborne brigade to support a subordinate army or corps in operational missions. With the approval of the army group commander, an army may further allocate battalion-size elements to support a ground maneuver division in tactical missions.

Airborne Infantry Brigade (Sep)



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* Air transport support units required for deployment may be allocated to the brigade from military transport aviation assets. Either transport aircraft or heavy-lift helicopters could air-land the brigade or insert the airborne infantry battalions by parachute.

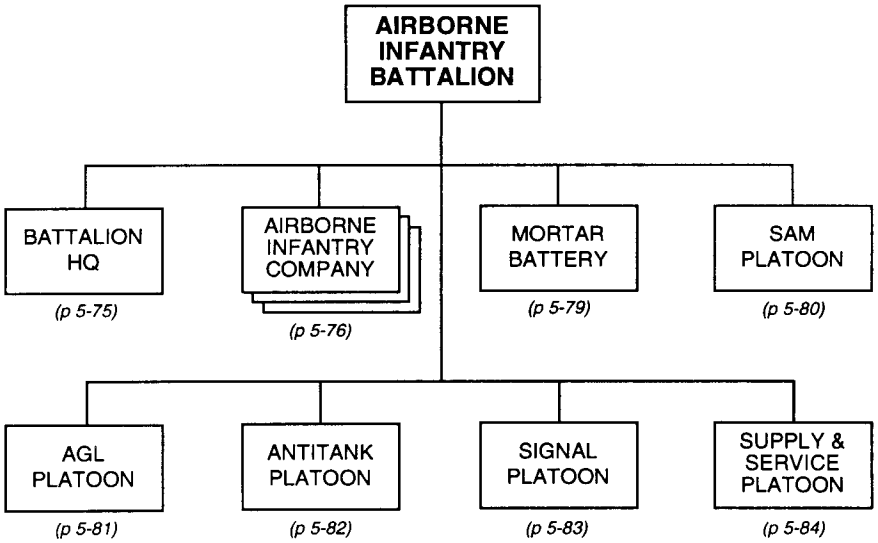
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Airborne Infantry Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Abn Inf Bn (x3)*	*122-mm Howitzer Bn*	*Air Defense Btry*	*Antitank Battery*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Parachute Rigging & Resupply Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		18												18
82-mm Mortar, 2B14		24												24
122-mm Howitzer, D-30			18											18
122-mm Laser-Guided Projectile Set			4											4
73-mm Recoilless Gun, SPG-9		9			9									18
ATGM Manpack, AT-4/SPIGOT		18			12									30
ATGM Manpack, AT-7/SAXHORN		27												27
23-mm AA Gun, ZU-23				6										6
SAM, Shoulder-Fired	3	33	18	12										66
Flamethrower, RPO/LPO		81					4							85
ENGINEER EQUIPMENT														
Mine Detector, DIM							2							2
Demolition Set							6							6
Airdroppable Bridge, PVD-20/DPP-40							10							10
TRUCKS														
ACRV, 1V110/1V153 (Battery FDC)*			3											3
ACRV, 1V111/1V153 (Battalion FDC)*			1											1
Truck, Utility	8	30	5	1	1	10	1	8		1	1			66
Truck, Light		75	34	10	12		18			38	30	2	2	221
Truck, Medium			9							8	31			48
Truck, Chem Recon, UAZ-69RKh									4					4
Truck, POL (4,000-L)		3	2								12			17
Van, Maintenance		3	1									9		13
Van, Signal		3	4					3						10
Ambulance		3	1										4	8
TRAILERS														
Trailer, Cargo, 1-Axle	2	6								16	10	4		38
Trailer, Cargo, 2-Axle			9								10	2		21
Trailer, Generator		3	2					1				1		7
Trailer, Kitchen		9	3				1	1		4	2		1	21
Trailer, POL (1,200-L)		9	2								12			23
Trailer, Water (900-L)		6	1				1			1	1	1	1	12
RADARS														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE			1		1	3								5
RADIOS														
VHF, Manpack, Low-Power	2	78	14	1	4	1	6		4	1	1	1	2	115
VHF, Portable, Low-Power		72	23		19	3	4							121
VHF, Portable, Very-Low-Power		99		8		12								119
HF, Manpack, Low-Power						1		6	1					8
HF/VHF, Vehicle Mount, Medium-Power	8	3	4					3						18
HF/VHF, Vehicle Mount, High-Power								1						1
Ground-to-Air Set	2	6		1				1						10
Burst-Transmission		15												15
Warning Receiver	1	3	1	1		1		1						8
MISCELLANEOUS														
Rangefinder, Laser		3	7		1									11
Rangefinder, Laser, Binocular			9											9
GPS Receiver		3	32											35
Periscopic Aiming Circle		3	6											9
Collimator		24												24
Motorcycle						3								3

* The 1V153 ACRVs may be part of the Kapustnik-B automated fire control system.

Airborne Infantry Battalion, Abn Inf Bde (Sep)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	99
5.45-mm Assault Rifle, AKS-74	388
5.45-mm LMG, RPKS-74	27
7.62-mm Sniper Rifle, SVD	27
7.62-mm GP MG, PKM	27
40-mm Under-Barrel Grenade Launcher, GP-25/30	79
30-mm Automatic Grenade Launcher, AGS-17	6
73-mm Recoilless Gun, SPG-9	3
82-mm Mortar, 2B14	8
SAM, Shoulder-Fired	11
ATGM Manpack, AT-4/SPIGOT	6
ATGM Manpack, AT-7/SAXHORN	9
ATGL, RPG-16D	21
ATRL, RPG-22/26	37
Flamethrower, RPO	27
Truck, Utility	10
Truck, Light	25
Truck, POL (4,000-Liter)	1
Van, Maintenance	1
Van, Signal	1
Ambulance	1
Trailer, Cargo, 1-Axle	2

Equipment	Total
Trailer, Generator	1
Trailer, Kitchen	3
Trailer, POL (1,200-Liter)	3
Trailer, Water (900-Liter)	2
Rangefinder/Target Designator, Laser	1
Periscopic Aiming Circle, PAB2A	1
Collimator	8
Night-Vision Goggles	55
Night-Vision Goggles (Driver)	26
Night-Vision Sight (Small Arms)	93
Night-Vision Sight (AGL)	6
Night-Vision Sight (MG)	27
Night-Vision Sight (Aiming Circle)	1
GPS Receiver	1
Radios:	
VHF, Manpack, Low-Power	26
VHF, Portable, Low-Power	24
VHF, Portable, Very-Low-Power	33
HF/VHF, Vehicle Mount, Medium-Power	1
Ground-to-Air Set	2
Burst-Transmission	5
Warning Receiver	1

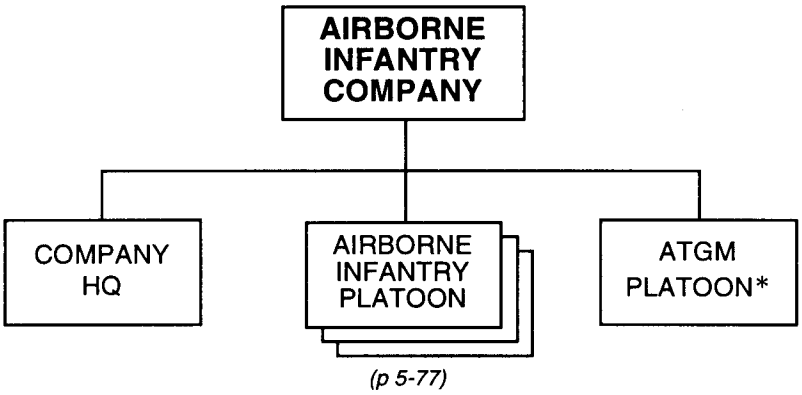
Battalion Headquarters,
Abn Inf Bn

BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	4
5.45-mm Assault Rifle, AKS-74	4
40-mm Under-Barrel Grenade Launcher, GP-25/30	1
ATRL, RPG-22/26	1
SAM, Shoulder-Fired	2
Night-Vision Goggles	2
Night-Vision Sight (Small Arms)	2
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Very-Low-Power	2
Burst-Transmission	1

Airborne Infantry Company, Abn Inf Bn



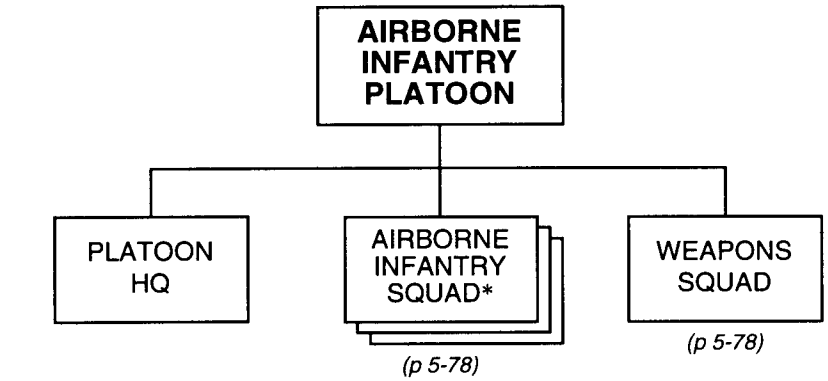
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	20
5.45-mm Assault Rifle, AKS-74	73
5.45-mm LMG, RPKS-74	9
7.62-mm Sniper Rifle, SVD	9
7.62-mm GP MG, PKM	9
40-mm Under-Barrel Grenade Launcher, GP-25/30	22
ATGM Manpack, AT-7/SAXHORN	3
ATGL, RPG-16D	6
ATRL, RPG-22/26	9

Equipment	Total
Flamethrower, RPO	9
Night-Vision Goggles	15
Night-Vision Sight (Small Arms)	21
Night-Vision Sight (MG)	9
Truck, Light	1
Radios:	
VHF, Manpack, Low-Power	4
VHF, Portable, Low-Power	4
VHF, Portable, Very-Low-Power	9
Burst-Transmission	1

* The ATGM platoon includes one light truck.

Airborne Infantry Platoon, Abn Inf Co



Platoon Leader.....PM

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	6
5.45-mm Assault Rifle, AKS-74	22
5.45-mm LMG, RPKS-74	3
7.62-mm Sniper Rifle, SVD	3
7.62-mm GP MG, PKM	3
40-mm Under-Barrel Grenade Launcher, GP-25/30	7
ATGL, RPG-16D	2
ATRL, RPG-22/26	3

Equipment	Total
Flamethrower, RPO	3
Night-Vision Goggles	5
Night-Vision Sight (Small Arms)	7
Night-Vision Sight (MG)	3
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	1
VHF, Portable, Very-Low-Power	3

* One squad leader is also the assistant platoon leader.

Airborne Infantry Squad, Abn Inf Plt

AIRBORNE INFANTRY SQUAD

Squad Leader AKS-74
Machinegunner RPKS-74
Asst Squad Leader/Senior Rifleman AKS-74
Rifleman (x4) AKS-74
Sniper ..... SVD

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
5.45-mm Assault Rifle, AKS-74	6
5.45-mm LMG, RPKS-74	1
7.62-mm Sniper Rifle, SVD	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	2
ATRL, RPG-22/26	1

Equipment	Total
Flamethrower, RPO	1
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	2
Radio, VHF, Portable, Very-Low-Power	1

Weapons Squad, Abn Inf Plt

WEAPONS SQUAD

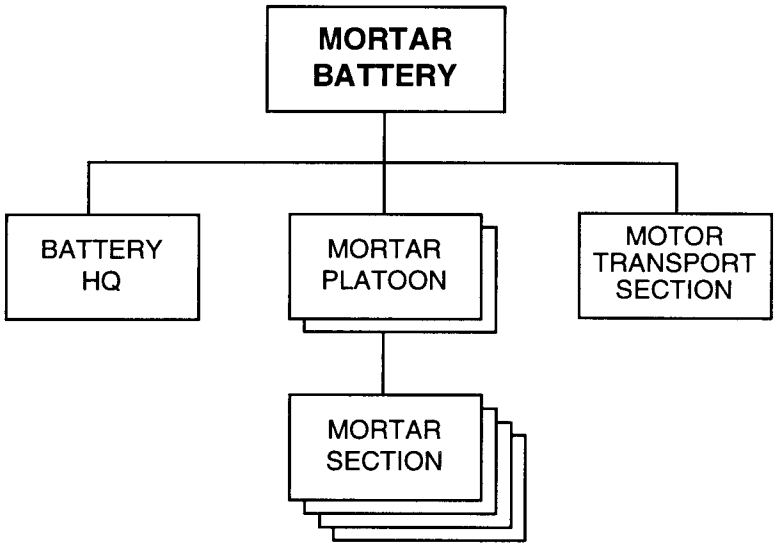
Squad Leader AK-74
Machinegunner (x3) ..... PKM/PM
Asst Machinegunner (x3) AK-74
Grenadier (x2) RPG-16D/PM

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	5
5.45-mm Assault Rifle, AK-74	4
7.62-mm GP MG, PKM	3
40-mm Under-Barrel Grenade Launcher, GP-25/30	1

Equipment	Total
ATGL, RPG-16D	2
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	1
Night-Vision Sight (MG)	3
Radio, VHF, Manpack, Low-Power	1

Mortar Battery, Abn Inf Bn

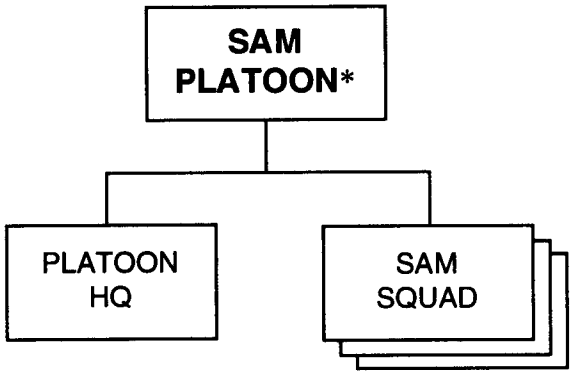


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
82-mm Mortar, 2B14	8
9-mm Pistol, PM	15
5.45-mm Assault Rifle, AKS-74	54
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
ATGL, RPG-16D	3
Truck, Utility	9
Rangefinder/Target Designator, Laser	1

Equipment	Total
Periscopic Aiming Circle, PAB2A	1
Collimator	8
Night-Vision Goggles	2
Night-Vision Goggles (Driver)	8
Night-Vision Sight (Small Arms)	8
Night-Vision Sight (Aiming Circle)	1
GPS Receiver	1
Radio, VHF, Manpack, Low-Power	5

SAM Platoon, Abn Inf Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
SAM, Shoulder-Fired***	9
9-mm Pistol, PM	10
5.45-mm Assault Rifle, AKS-74	12
Truck, Light	3

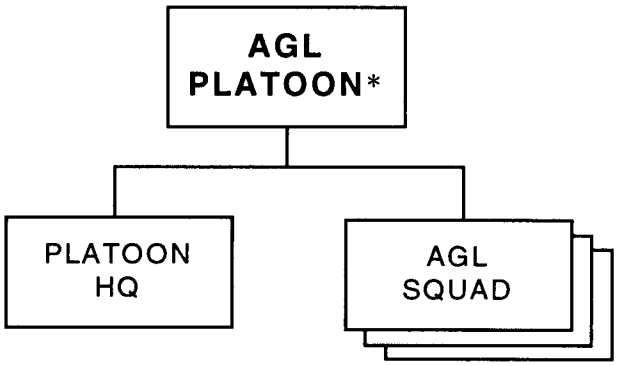
Equipment	Total
Night-Vision Goggles	4
Night-Vision Goggles (Driver)	3
Radio, VHF, Portable, Very-Low-Power	4

* Depending on the situation, the battalion commander may retain the entire SAM platoon under his own control, or he may allocate its squads to individual airborne infantry companies.

** One of the SAM operators is also the squad leader.

*** Each light truck carries a SAM launcher and up to five missiles. When dismounted, each SAM operator carries a gripstock launcher and one missile; a rifleman/assistant operator carries one additional missile and can bring more from the truck, as required.

Automatic Grenade Launcher Platoon, Abn Inf Bn



Squad Leader.....AKS-74
Senior Rifleman....AKS-74, RPG-22/26
Grenadier (x2).....AGS-17, PM
Rifleman/Asst Grenadier (x4)...AKS-74
Truck Driver.....AKS-74

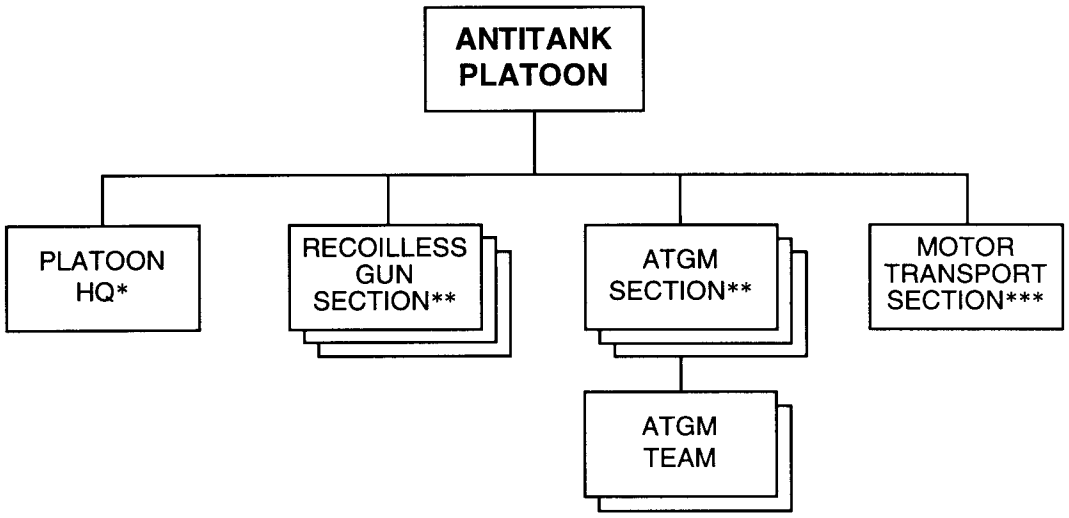
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm Automatic Grenade Launcher, AGS-17	6
9-mm Pistol, PM	7
5.45-mm Assault Rifle, AKS-74	21
ATRL, RPG-22/26	3

Equipment	Total
Truck, Light	3
Night-Vision Goggles (Driver)	3
Night-Vision Sights (AGL)	6
Night-Vision Sights (Small Arms)	6
Radio, VHF, Portable, Low-Power	4

* Depending on the situation, the battalion commander may retain the entire AGL platoon under his own control, or he may allocate its squads to individual airborne infantry companies.

Antitank Platoon, Abn Inf Bn



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM Manpack, AT-4/SPIGOT	6
73-mm Recoilless Gun, SPG-9	3
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AKS-74	33
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
ATRL, RPG-22/26	5

Equipment	Total
Truck, Light	5
Night-Vision Goggles	1
Night-Vision Goggles (Driver)	5
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	7

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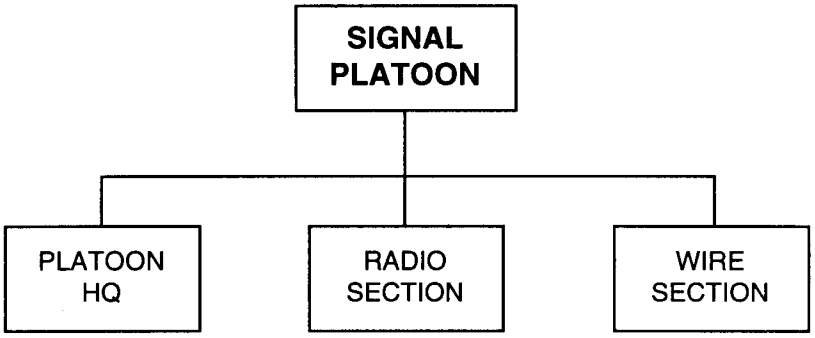
* The platoon leader and assistant platoon leader ride in extra seats in the recoilless gun and ATGM vehicles.

** Recoilless guns deploy by teams. Each team contains one SPG-9.

*** ATGMs deploy by sections. Each section consists of two teams, each containing one AT-4/SPIGOT launcher.

**** Each of the five trucks in the motor transport section can carry one or two recoilless gun teams or one ATGM section.

Signal Platoon, Abn Inf Bn

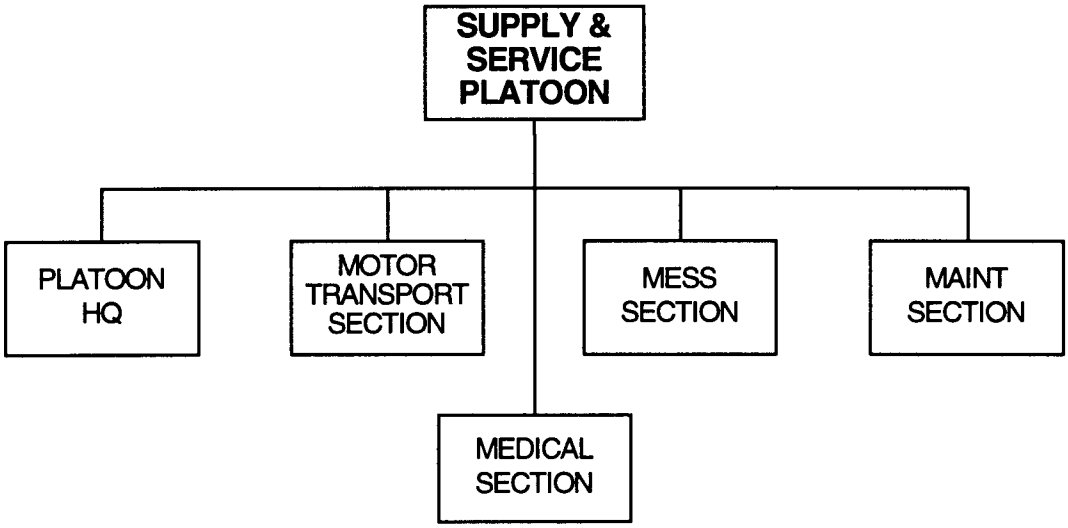


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AKS-74	13
Truck, Utility	1
Truck, Light	1
Van, Signal	1
Night-Vision Goggles	1
Night-Vision Goggles (Driver)	3
Night-Vision Sight (Small Arms)	2

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	3
HF/VHF, Vehicle Mount, Medium-Power	1
Ground-to-Air Set	2
Burst-Transmission	1
Warning Receiver	1

Supply and Service Platoon, Abn Inf Bn

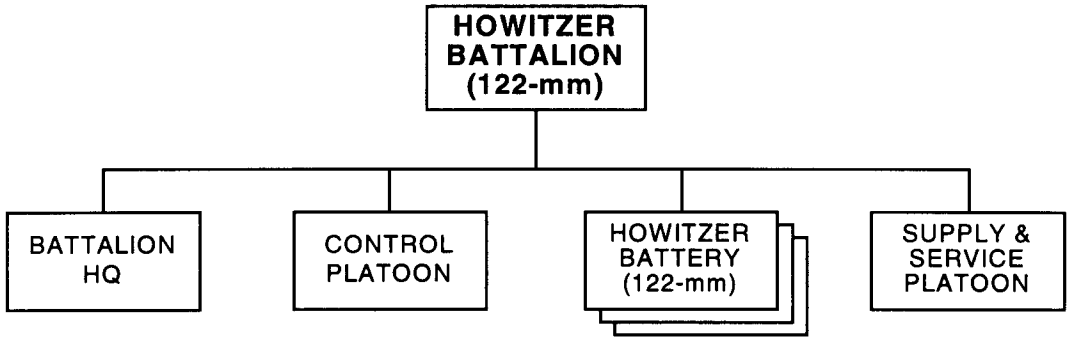


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AKS-74	32
Truck, Light	10
Truck, POL (4,000-Liter)	1
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	2
Trailer, Generator	1

Equipment	Total
Trailer, Kitchen	3
Trailer, POL (1,200-Liter)	3
Trailer, Water (900-Liter)	2
Night-Vision Goggles (Driver)	4
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Manpack, Low-Power	4
VHF, Portable, Low-Power	1

122-mm Howitzer Battalion, Abn Inf Bde (Sep)



(p 5-86)

PRINCIPAL ITEMS OF EQUIPMENT

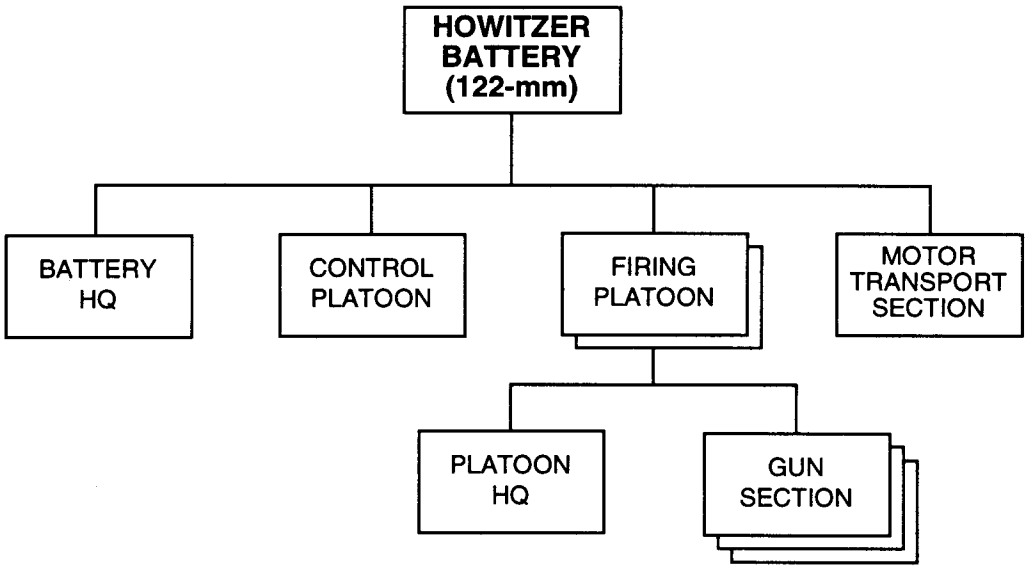
Equipment	Total
122-mm Howitzer, D-30	18
122-mm Laser-Guided Projectile Set, Kitolov-2M*	4
ACRV, 1V110/1V153 (Btry FDC)**	3
ACRV, 1V111/1V153 (Bn FDC)**	1
Truck, Utility (Bn/Btry COP)	4
5.45-mm LMG, RPK-74	18
SAM, Shoulder-Fired	18
ATGL, RPG-16D	6
Truck, Light	34
Truck, Medium	9
Truck, POL (4,000-Liter)	2
Van, Maintenance	1
Van, Signal	4
Ambulance	1
Trailer, Cargo, 2-Axle	9
Trailer, Generator	2

Equipment	Total
Trailer, Kitchen	3
Trailer, POL (1,200-Liter)	2
Trailer, Water (900-Liter)	1
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Rangefinder, Laser, 1D8/1D12	7
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	14
VHF, Portable, Low-Power or Very-Low-Power	23
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	1

* Not all howitzer battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (D-30), each LGP set typically includes a dismountable laser target designator (1D26), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's mobile reconnaissance post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

** The 1V53 ACRVs may be part of the Kapustnik-B automated fire control system.

122-mm Howitzer Battery, 122-mm How Bn, Abn Inf Bde (Sep) or Arty Regt, Abn Div



PRINCIPAL ITEMS OF EQUIPMENT

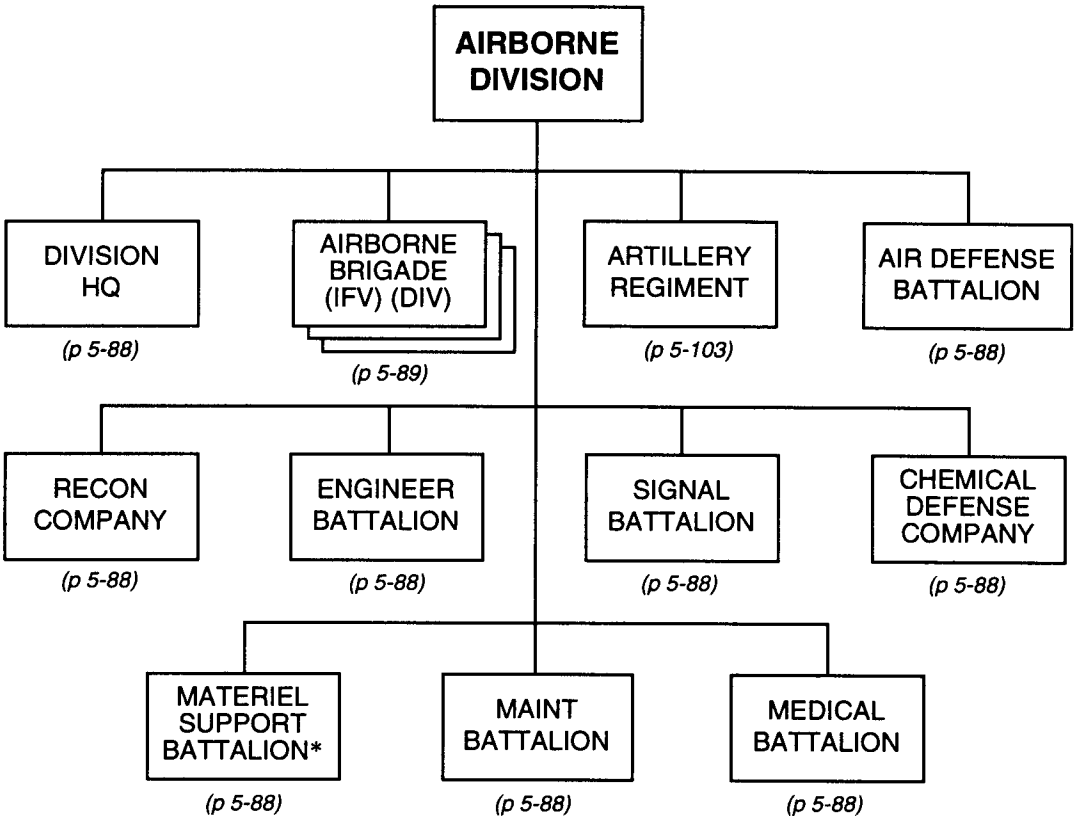
Equipment	Total
122-mm Howitzer, D-30	6
122-mm Laser-Guided Projectile Set, Kitolov-2M*	1
ACRV, 1V110/1V153 (Btry FDC)**	1
Truck, Utility (Btry COP)	1
SAM, Shoulder-Fired	6
5.45-mm LMG, RPK-74	6
ATGL, RPG-16D	2
Truck, Light	7
Van, Signal	1
Trailer, Cargo, 2-Axle	1
Rangefinder, Laser, 1D8/1D12	1

Equipment	Total
Rangefinder, Binocular, LPR-1	3
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Portable, Low-Power or Very-Low-Power	7
VHF, Vehicle Mount, Medium-Power	1
HF/VHF, Vehicle Mount, Medium-Power	1

* Not all howitzer batteries have laser-guided projectiles (LGPs) allocated to them. A battery receiving LGPs normally designates one firing platoon as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (D-30), each LGP set typically includes a dismountable laser target designator (1D26), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battery would have some. The battery COP gets a laser target designator. The battery FDC gets a synchronizer, and there may be a second one is in the special weapons platoon.

** The 1V53 ACRV may be part of the Kapustnik-B automated fire control system.

Airborne Division



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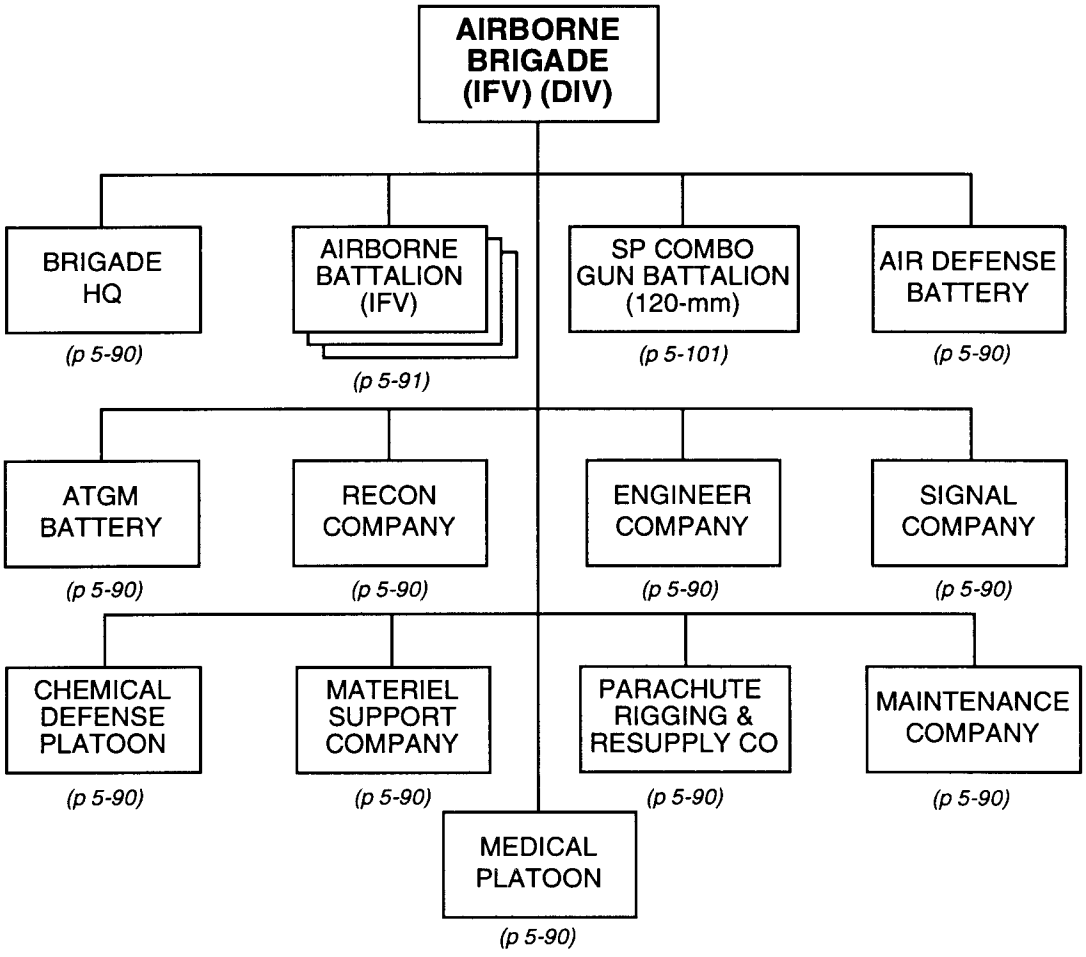
* This battalion also performs the parachute rigging function for division elements other than the airborne brigades. The brigades each have their own parachute rigging and resupply company.

(continued)

Airborne Division (continued)

Principal Items of Equipment	*Division HQ*	*Abn Bde (IFV) (x3)*	*Artillery Regt*	*Air Defense Bn*	*Recon Co*	*Engineer Bn*	*Signal Bn*	*Chem Defense Co*	*Materiel Support Bn*	*Maintenance Bn*	*Medical Bn*	*TOTAL*
ARMORED VEHICLES												
IFV, BMD-1/2/3	9	303			6							318
APC, BTR-D	12	69	5		6	11	3			1		107
APC, BTR-RD		18	18									36
APC, BTR-ZD	1	39	3	4								47
ACV, BMD-1KSh	2	24	2	1	1	1	12					43
ASC, BRDM-2		12			6							18
ACRV, 1V119	1	30	10									41
Armored Recovery Vehicle						3				1		4
WEAPONS												
30-mm Auto Grenade Launcher, AGS-17		54										54
120-mm SP Combination Gun, 2S9		54	18									72
120-mm Laser-Guided Projectile Set		12	4									16
122-mm Howitzer, D-30			6									6
122-mm Laser-Guided Projectile Set			1									1
ATGM Manpack, AT-4/SPIGOT		36	36									72
23-mm AA Gun, ZU-23		18		18								36
SAM, Shoulder-Fired	3	171	15	12								201
TRUCKS												
ACRV, 1V110 (Btry FDC)			1									1
Truck, Utility	16	42	10	1		10	7	6	10	6	4	112
Truck, Light	6	285	73	25		20	2		60		1	472
Truck, Medium		219	17				3		50	50	10	349
Truck, Decon, DDA-53/66								3				3
Truck, Decon, DDP/DDA								1			1	2
Truck, Chem Recon, UAZ-69RKh		12	1					7				20
Truck, POL (4,000-L)		69	12	1		1	1	1	15	4	1	105
Van	8										1	9
Van, Hospital											5	5
Van, Maintenance		42	7							18		67
Van, Signal		30	9				9					48
Ambulance	1	18	2	1		1			1		10	34
TRAILERS												
Trailer, Cargo, 1-Axle	4	57	35						20		3	119
Trailer, Cargo, 2-Axle			6							20		26
Trailer, Generator	2	15	5				3				2	27
Trailer, Kitchen	2	66	10			3	1		1	1	2	86
Trailer, POL (1,200-L)		33	11									44
Trailer, Water (900/1,200-L)	1	30	9	2		2	1	2	1	1	3	52
RADARS												
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		12			4							16
RADIOS												
VHF, Manpack, Low-Power	3	204	23	10	5	8	1	10	3	2	2	271
VHF, Portable, Low-Power		180	35									215
VHF, Portable, Very-Low-Power		48	4									52
VHF, Vehicle Mount, Medium-Power	25	549	53	5	19	12	15					678
HF, Manpack, Low-Power		6			1							7
HF, Vehicle Mount, Medium-Power	10	39	5	1	1		4					60
HF/VHF, Vehicle Mount, Medium-Power		15	10				1				1	27
HF/VHF, Vehicle Mount, High-Power		3	1				1					5
Ground-to-Air Set	2	33	2	1	1		4	1				44
Burst-Transmission		51										51
Warning Receiver	1	36	4	1	1	1	1	1		1		47
Radio Relay, VHF/UHF			1				1					2
MISCELLANEOUS												
Rangefinder, Laser		15	9									24
Rangefinder, Laser, Binocular		27	12									39
GPS Receiver		96	42									138
Periscopic Aiming Circle		18	8									26

Airborne Brigade (IFV) (Div), Abn Div

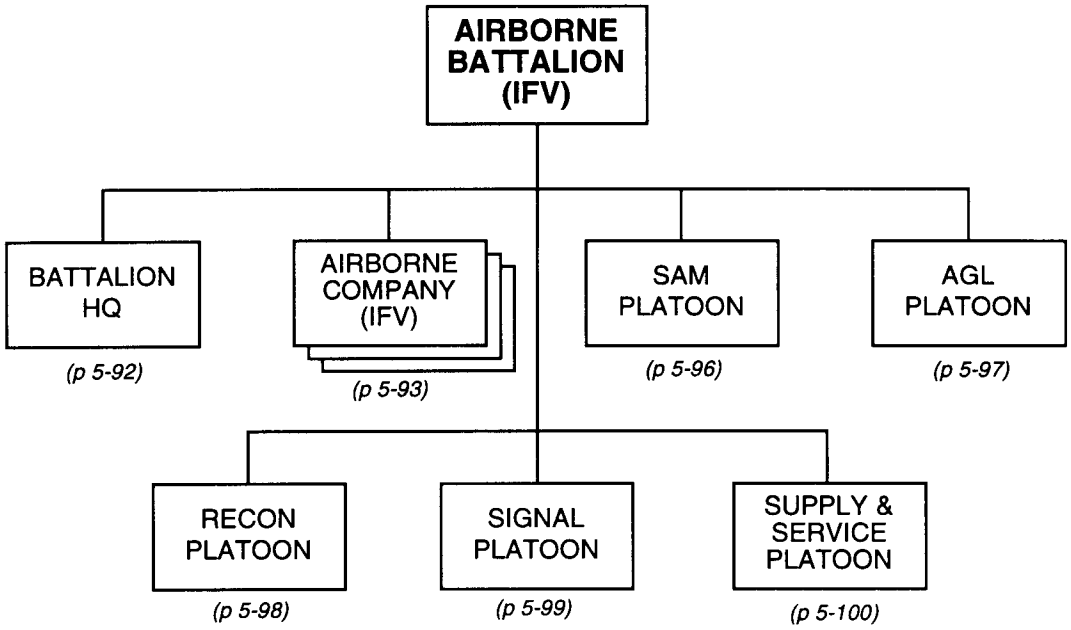


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Airborne Brigade (IFV) (Div), Abn Div (continued)

Principal Items of Equipment	*Brigade HQ*	*Airborne Bn (IFV) (x3)*	*120-mm SP Combo Gun Bn*	*Air Defense Btry*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Parachute Rigging & Resupply Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES														
IFV, BMD-1/2/3		99				2								101
APC, BTR-D	3	9			1	5	3	2						23
APC, BTR-RD					6									6
APC, BTR-ZD		9		4										13
ACV, BMD-1KSh	1	6						1						8
ASC, BRDM-2						4								4
ACRV, 1V119	1		8		1									10
WEAPONS														
30-mm Auto Grenade Launcher, AGS-17		18												18
120-mm SP Combination Gun, 2S9			18											18
120-mm Laser-Guided Projectile Set			4											4
ATGM Manpack, AT-4/SPIGOT					12									12
23-mm AA Gun, ZU-23				6										6
SAM, Shoulder-Fired		27	18	12										57
TRUCKS														
Truck, Utility		6	1	1			1	4		1				14
Truck, Light		24	21	6			4			8	30		2	95
Truck, Medium			4							38	31			73
Truck, Chem Recon, UAZ-69RKh									4					4
Truck, POL (4,000-L)		9	2								12			23
Van, Maintenance		3	2									9		14
Van, Signal		3	4					3						10
Ambulance		3	1										2	6
TRAILERS														
Trailer, Cargo, 1-Axle		3	10							6				19
Trailer, Generator		3	2											5
Trailer, Kitchen		9	3				1	1		4	2	1	1	22
Trailer, POL (1,200-L)		9	2											11
Trailer, Water (900/1,200-L)		3	1				1	1		1	1	1	1	10
RADARS														
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE			1			3								4
RADIOS														
VHF, Manpack, Low-Power		30	10		9	4	1	6	4		1	1	2	68
VHF, Portable, Low-Power		60												60
VHF, Portable, Very-Low-Power		12		4										16
VHF, Vehicle Mount, Medium-Power	5	123	26	4	8	11	3	3						183
HF, Manpack, Low-Power						1			1					2
HF, Vehicle Mount, Medium-Power	1	6		1		1		4						13
HF/VHF, Vehicle Mount, Medium-Power			4					1						5
HF/VHF, Vehicle Mount, High-Power								1						1
Ground-to-Air Set	2	6		1		1		1						11
Burst-Transmission	1	15						1						17
Warning Receiver	1	6	2	1		1		1						12
MISCELLANEOUS														
Rangefinder, Laser			4		1									5
Rangefinder, Laser, Binocular			9											9
GPS Receiver			32											32
Periscopic Aiming Circle			6											6

Airborne Battalion (IFV), Abn Bde (IFV) (Div)



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
IFV, BMD-1/2/3	33
APC, BTR-D	3
APC, BTR-ZD	3
ACV, BMD-1KSh	2
9-mm Pistol, PM	54
5.45-mm Assault Rifle, AKS-74	139
5.45-mm Submachinegun, AKSU-74	90
5.45-mm LMG, RPKS-74	30
7.62-mm Sniper Rifle, SVD	10
30-mm Automatic Grenade Launcher, AGS-17	6
40-mm Under-Barrel Grenade Launcher, GP-25/30	64
SAM, Shoulder-Fired	9
ATGL, RPG-16D	30
ATRL, RPG-22/26	37
Flamethrower, RPO	31
Truck, Utility	2
Truck, Light	8
Truck, POL (4,000-Liter)	3

Equipment	Total
Van, Maintenance	1
Van, Signal	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, Generator	1
Trailer, Kitchen	3
Trailer, POL (1,200-Liter)	3
Trailer, Water (900-Liter)	1
Radios:	
VHF, Manpack, Low-Power	10
VHF, Portable, Low-Power	20
VHF, Portable, Very-Low-Power	4
VHF, Vehicle Mount, Medium-Power	41
HF, Vehicle Mount, Medium-Power	2
Ground-to-Air Set	2
Burst-Transmission	5
Warning Receiver	2

Battalion Headquarters, Abn Bn (IFV)

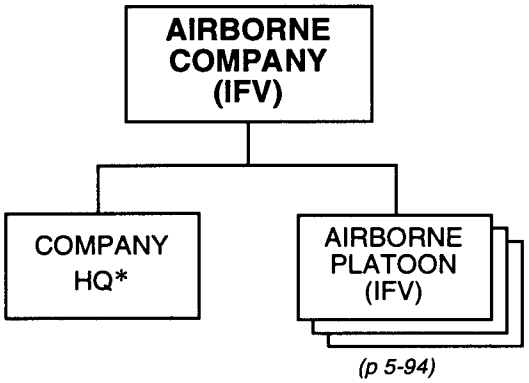
BATTALION HEADQUARTERS

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BMD-1KSh	1
9-mm Pistol, PM	3
5.45-mm Assault Rifle, AKS-74	2
5.45-mm Submachinegun, AKSU-74	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	1
ATRL, RPG-22/26	1
Flamethrower, RPO	1

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	1
VHF, Vehicle Mount, Medium-Power	1
HF, Vehicle Mount, Medium-Power	1
Ground-to-Air Set	1
Warning Receiver	1

Airborne Company (IFV), Abn Bn (IFV)



Company Commander ..... PM
Deputy Cdr ..... PM
Logistics Officer ..... PM
First Sergeant AKS-74
Driver/Mechanic ..... PM
Gunner AKSU-74

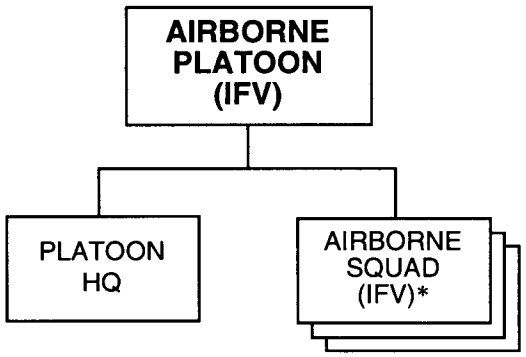
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
IFV, BMD-1/2/3	10
9-mm Pistol, PM	13
5.45-mm Assault Rifle, AKS-74	28
5.45-mm Submachinegun, AKSU-74	19
5.45-mm LMG, RPKS-74	9
7.62-mm Sniper Rifle, SVD	3
40-mm Under-Barrel Grenade Launcher, GP-25/30	19
ATGL, RPG-16D	9
ATRL, RPG-22/26	9

Equipment	Total
Flamethrower, RPO	9
Night-Vision Goggles	10
Night-Vision Sight (Small Arms)	10
Radios:	
VHF, Manpack, Low-Power	1
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	10
Burst-Transmission	1

* The company headquarters has its own IFV.

Airborne Platoon (IFV), Abn Co (IFV)



(p 5-95)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
IFV, BMD-1/2/3	3
9-mm Pistol, PM	3
5.45-mm Assault Rifle, AKS-74	9
5.45-mm Submachinegun, AKSU-74	6
5.45-mm LMG, RPKS-74	3
7.62-mm Sniper Rifle, SVD	1 **
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
ATGL, RPG-16D	3

Equipment	Total
ATRL, RPG-22/26	3
Flamethrower, RPO	3
Night-Vision Goggles	3
Night-Vision Sight (Small Arms)	3
Radios:	
VHF, Portable, Low-Power	1
VHF, Vehicle Mount, Medium-Power	3

* In one squad vehicle, the platoon leader takes the place of the squad leader. One of the other squad leaders is also the assistant platoon leader.

** One squad per platoon carries a sniper rifle for use by one of its riflemen.

Airborne Squad (IFV), Abn Plt (IFV)

AIRBORNE SQUAD (IFV)*

Squad Leader	AKS-74
IFV Driver/Mechanic	PM
IFV Gunner	AKSU-74
Machinegunner	RPKS-74
Grenadier	RPG-16D, AKSU-74
Rifleman/Asst Grenadier	AKS-74
Asst Squad Leader/Senior Rifleman	AKS-74

PRINCIPAL ITEMS OF EQUIPMENT

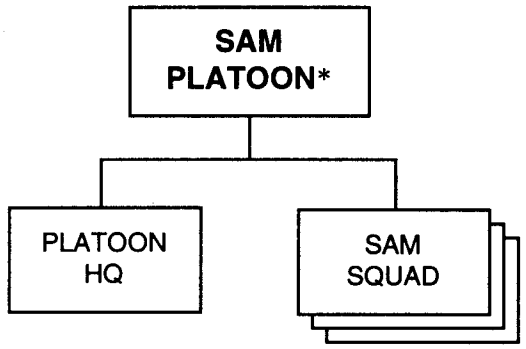
Equipment	Total
IFV, BMD-1/2/3	1
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AKS-74	3
5.45-mm Submachinegun, AKSU-74	2
5.45-mm LMG, RPKS-74	1
40-mm Under-Barrel Grenade Launcher, BG-25/30	2

Equipment	Total
ATGL, RPG-16D	1
ATRL, RPG-22/26	1 **
Flamethrower, RPO	1 **
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	1
Radio, VHF, Vehicle Mount, Medium-Power	1

* The dismounted squad element consists of five personnel. The IFV driver/mechanic and IFV gunner remain with the IFV to provide fire support. The dismounted squad does not have a portable radio.

** Unlike the RPG-16D, the RPG-22/26 has no dedicated operator (grenadier). The RPO flamethrower has no dedicated operator.

SAM Platoon, Abn Inf Bn (IFV) or Arty Regt, Abn Div



SAM Operator (x3)** .... SAM Launcher, AKSU-74
Rifleman/Asst Operator (x3) AKSU-74
APC Driver/Mechanic ..... PM

PRINCIPAL ITEMS OF EQUIPMENT

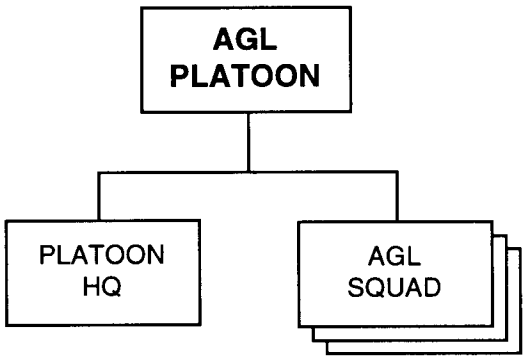
Equipment	Total
SAM, Shoulder-Fired***	9
APC, BTR-ZD	3
9-mm Pistol, PM	4
5.45-mm Submachinegun, AKSU-74	18
ATRL, RPG-22/26	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	2
Radios:	
VHF, Portable, Very-Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

* Depending on the situation, the battalion commander may retain the entire SAM platoon under his own control, or he may allocate its squads to individual airborne companies.

** One of the SAM operators is also the squad leader.

*** Each APC carries a SAM launcher and up to five missiles for it. When dismounted, each SAM operator carries a gripstock launcher and one missile; a rifleman/assistant operator carries one additional missile and can bring more from the APC, as required.

Automatic Grenade Launcher Platoon, Abn Bn (IFV)



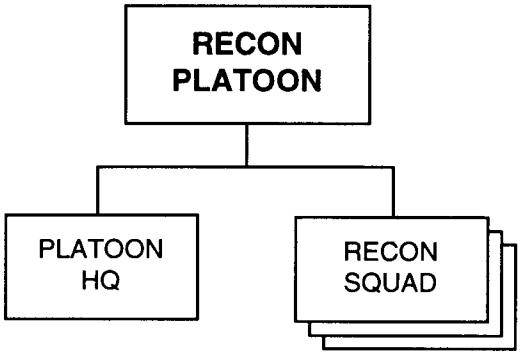
Squad Leader.....AKS-74
Senior Rifleman.....AKS-74, RPG-22/26
Grenadier (x2).....AGS-17, AKSU-74
Rifleman/Asst Grenadier (x4).....AKS-74
APC Driver.....PM

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
30-mm Automatic Grenade Launcher, AGS-17	6
APC, BTR-D	3
9-mm Pistol, PM	3
5.45-mm Assault Rifle, AKS-74	9
5.45-mm Submachinegun, AKSU-74	6
ATRL, RPG-22/26	3

Equipment	Total
Night-Vision Goggles	3
Night-Vision Sight (AGL)	6
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

Reconnaissance Platoon, Abn Bn (IFV)

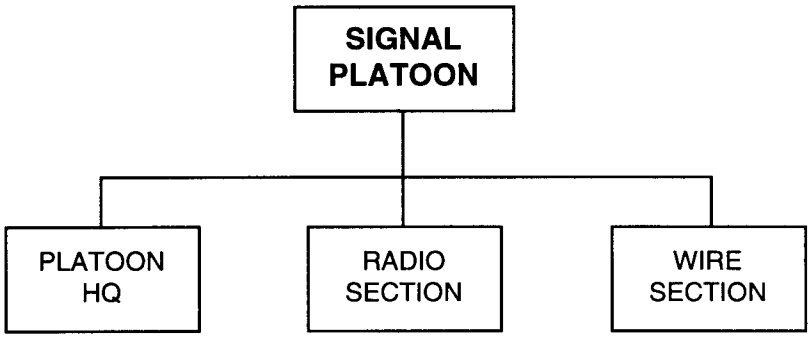


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
IFV, BMD-1/2/3	3
9-mm Pistol, PM	3
5.45-mm Assault Rifle, AKS-74	8
5.45-mm Submachinegun, AKSU-74	6
5.45-mm LMG, RPKS-74	3
7.62-mm Sniper Rifle, SVD	1
40-mm Under-Barrel Grenade Launcher, GP-25/30	6
ATGL, RPG-16D	3

Equipment	Total
ATRL, RPG-22/26	3
Flamethrower, RPO	3
Night-Vision Goggles	4
Night-Vision Sight (Small Arms)	6
Radios:	
VHF, Portable, Low-Power	3
VHF, Vehicle Mount, Medium-Power	3

Signal Platoon, Abn Bn (IFV)

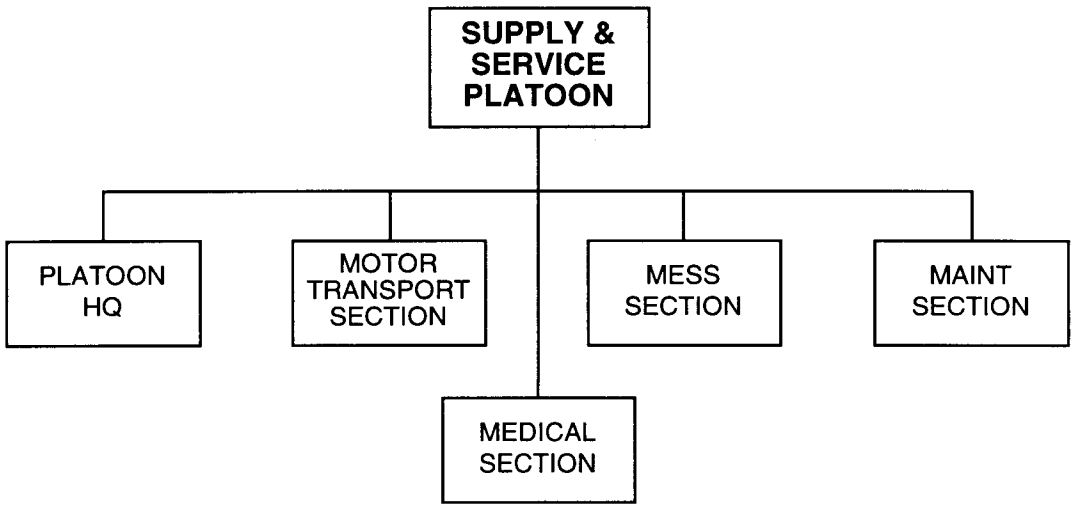


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BMD-1KSh	1
Van, Signal	1
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AKS-74	11
5.45-mm Submachinegun, AKSU-74	2
Truck, Utility	1
Night-Vision Goggles (Driver)	2
Night-Vision Sight (Small Arms)	2

Equipment	Total
Radios:	
VHF, Manpack, Low-Power	3
VHF, Vehicle Mount, Medium-Power	1
HF, Vehicle Mount, Medium-Power	1
Ground-to-Air Set	1
Burst-Transmission	1
Warning Receiver	1

Supply and Service Platoon, Abn Bn (IFV)

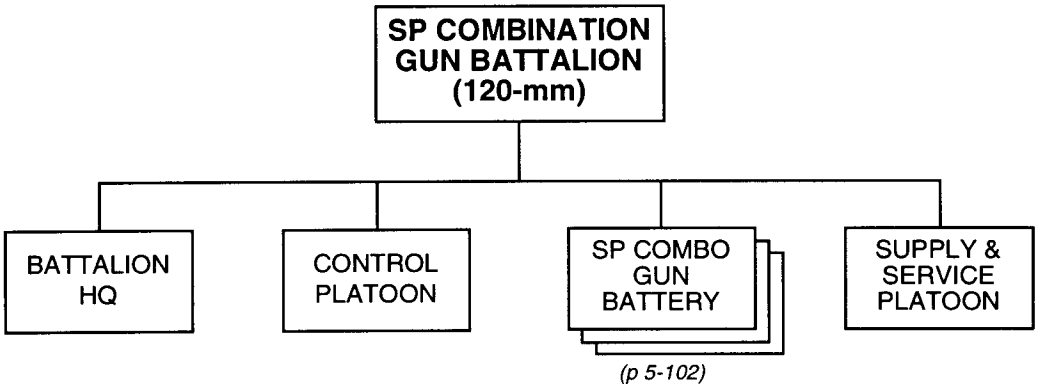


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	1
5.45-mm Assault Rifle, AKS-74	25
Truck, Utility	1
Truck, Light	8
Truck, POL (4,000-Liter)	3
Van, Maintenance	1
Ambulance	1
Trailer, Cargo, 1-Axle	1
Trailer, POL (1,200-Liter)	3

Equipment	Total
Trailer, Generator	1
Trailer, Kitchen	3
Trailer, Water (900-Liter)	1
Night-Vision Goggles	3
Night-Vision Sight (Small Arms)	5
Radios:	
VHF, Manpack, Low-Power	3
VHF, Portable, Low-Power	1

120-mm Self-Propelled Combination Gun Battalion, Abn Bde (IFV) (Div) and Arty Regt, Abn Div

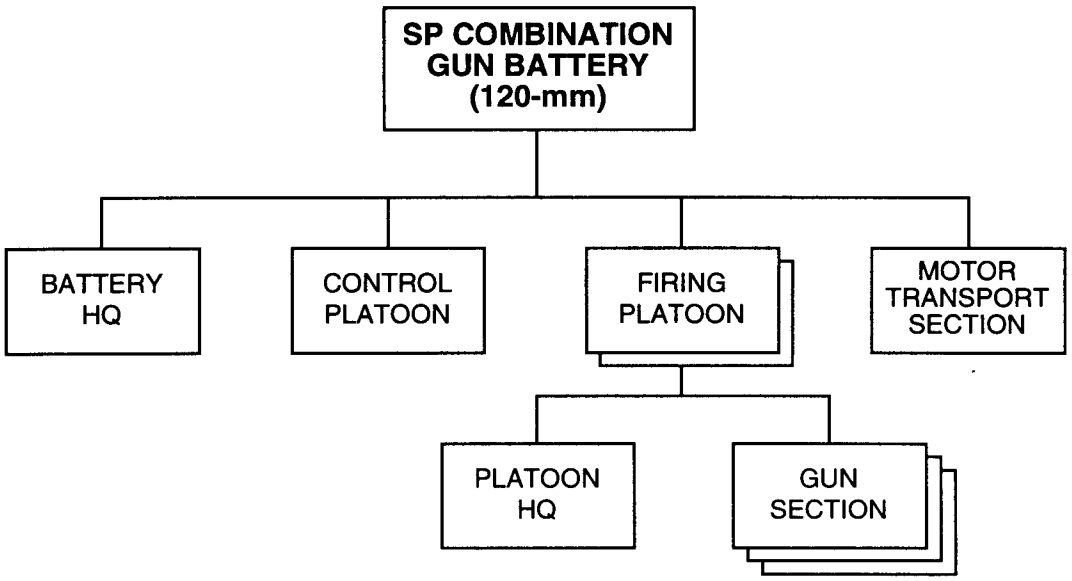


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
120-mm Combination Gun, 2S9	18
120-mm Laser-Guided Projectile Set, Kitolov-2*	4
ACRV, 1V119 (Btry/Bn COP/FDC)	8
7.62-mm GP MG, PKM	18
SAM, Shoulder-Fired	18
ATGL, RPG-16D	6
Truck, Utility	1
Truck, Light	21
Truck, Medium	4
Truck, POL (4,000-Liter)	2
Van, Maintenance	2
Van, Signal	4
Ambulance	1
Trailer, Cargo, 1-Axle	10
Trailer, Generator	2
Trailer, Kitchen	3
Trailer, POL (1,200-Liter)	2
Trailer, Water (1,200-Liter)	1
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	1
Rangefinder, Laser, 1D8/1D12	4
Rangefinder, Laser, Binocular, LPR-1	9
Night-Vision Sight (Aiming Circle)	6
Periscopic Aiming Circle, PAB2A	6
GPS Receiver	32
Radios:	
VHF, Manpack, Low-Power	10
VHF, Vehicle Mount, Medium-Power	26
HF/VHF, Vehicle Mount, Medium-Power	4
Warning Receiver	2

* Not all SP combination gun battalions have laser-guided projectiles (LGPs) allocated to them. A battalion receiving LGPs normally designates one firing platoon in one of its batteries as a special weapons platoon to fire these, as well as smoke and illuminating rounds. In addition to the firing weapon (2S9), each LGP set typically includes a dismountable laser target designator (1D26), a 1A35 synchronizer, and 50 LGPs. Although most of the 200 LGPs are in the special weapons platoon, each firing platoon in the battalion would have some. Each battery COP and the battalion's forward observation post get a laser target designator. Each battery FDC gets a synchronizer, and the fourth is in the special weapons platoon.

120-mm Self-Propelled Combination Gun Battery, 120-mm SP Combo Gun Bn

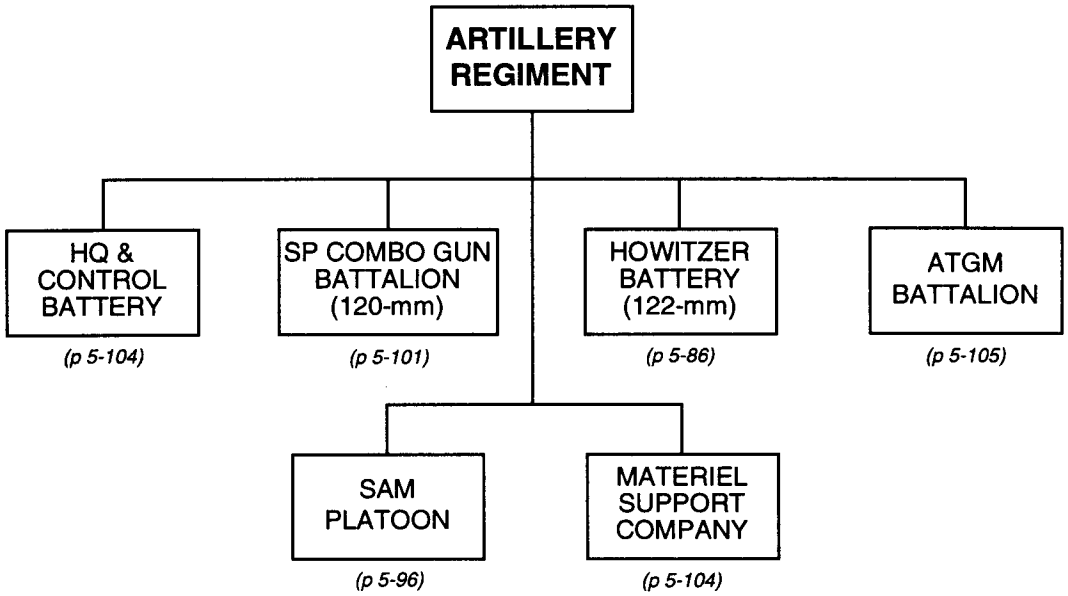


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
120-mm Combination Gun, 2S9	6
ACRV, 1V119 (Btry FDC/COP)	2
7.62-mm GP MG, PKM	6
SAM, Shoulder-Fired	6
ATGL, RPG-16D	2
Van, Signal	1
Truck, Light	7
Trailer, Cargo, 1-Axle	3
Rangefinder, Laser, 1D8/1D12	1
Rangefinder, Laser, Binocular, LPR-1	3

Equipment	Total
Night-Vision Sight (Aiming Circle)	2
Periscopic Aiming Circle, PAB2A	2
GPS Receiver	10
Radios:	
VHF, Manpack, Low-Power	2
VHF, Vehicle Mount, Medium-Power	8
HF/VHF, Vehicle Mount, Medium-Power	1

Artillery Regiment,
Abn Div



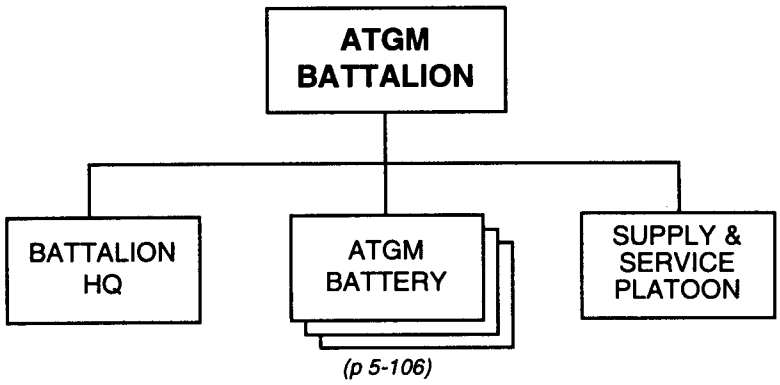
(continued)

Artillery Regiment, Abn Div (continued)

Principal Items of Equipment	*HQ & Control Btry*	*120-mm SP Combo Gun Bn*	*122-mm How Btry*	*ATGM Bn*	*SAM Plt*	*Materiel Support Co*	*TOTAL*
ARMORED VEHICLES							
APC, BTR-D	1			4			5
APC, BTR-RD				18			18
APC, BTR-ZD					3		3
ACV, BMD-1KSh	2						2
ACRV, 1V119	1	8		1			10
WEAPONS							
120-mm SP Combination Gun, 2S9		18					18
120-mm Laser-Guided Projectile Set		4					4
122-mm Howitzer, D-30			6				6
122-mm Laser-Guided Projectile Set			1				1
ATGM Manpack, AT-4/SPIGOT				36			36
SAM, Shoulder-Fired			6		9		15
TRUCKS							
ACRV, 1V110/1V153 (Btry FDC)			1				1
Truck, Utility	6	1	1	1		1	10
Truck, Light	2	21	7	7		36	73
Truck, Medium	1	4		4		8	17
Truck, Chem Recon, UAZ-69RKh	1						1
Truck, POL (4,000-L)		2		2		8	12
Van, Maintenance	1	2		2		2	7
Van, Signal	2	4	1	2			9
Ambulance		1		1			2
TRAILERS							
Trailer, Cargo, 1-Axle		10				25	35
Trailer, Cargo, 2-Axle	1		1	4			6
Trailer, Generator	2	2		1			5
Trailer, Kitchen	1	3		2		4	10
Trailer, POL (1,200-L)		2		1		8	11
Trailer, Water (900/1,200-L)	1	1		1		6	9
RADARS							
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		1					1
RADIOS							
VHF, Manpack, Low-Power	6	10	2	4		1	23
VHF, Portable, Low-Power	1		7	27			35
VHF, Portable, Very-Low-Power					4		4
VHF, Vehicle Mount, Medium-Power		26	1	23	3		53
HF, Vehicle Mount, Medium-Power	3			2			5
HF/VHF, Vehicle Mount, Medium-Power	5	4	1				10
HF/VHF, Vehicle Mount, High-Power	1						1
Ground-to-Air Set	2						2
Warning Receiver	1	2		1			4
Radio Relay, VHF/UHF	1						1
MISCELLANEOUS							
Rangefinder, Laser	1	4	1	3			9
Rangefinder, Laser, Binocular		9	3				12
Periscopic Aiming Circle		6	2				8
GPS Receiver		32	10				42

* The 1V153 ACRV may be part of the Kapustnik-B automated fire control system.

ATGM Battalion, Arty Regt, Abn Div



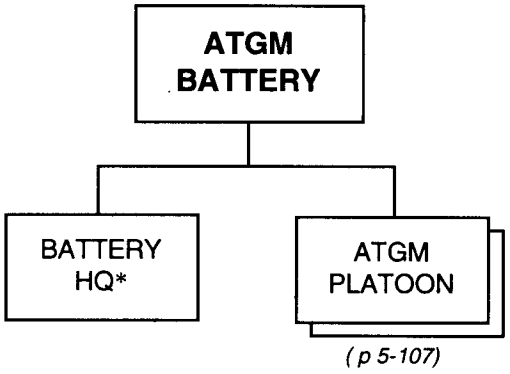
(p 5-106)

PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM, Manpack, AT-4/SPIGOT	36
APC, BTR-RD	18
APC, BTR-D	4
ACRV, 1V119	1
Truck, Utility	1
Truck, Light	7
Truck, Medium	4
Truck, POL (4,000-Liter)	2
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	4
Trailer, Generator	1

Equipment	Total
Trailer, Kitchen	2
Trailer, POL (1,200-Liter)	1
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	3
Radios:	
VHF, Manpack, Low-Power	4
VHF, Portable, Low-Power	27
VHF, Vehicle Mount, Medium-Power	23
HF, Vehicle Mount, Medium-Power	2
Warning Receiver	1

ATGM Battery, Airborne Bde (IFV) (Div) or ATGM Bn, Arty Regt, Abn Div



(p 5-107)

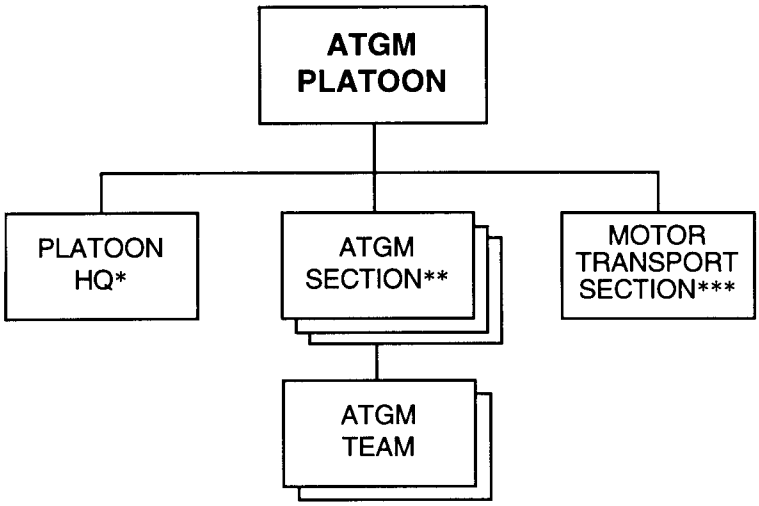
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM, Manpack, AT-4/SPIGOT	12
APC, BTR-RD	6
APC, BTR-D	1
Rangefinder, Laser, 1D8/1D12	1

Equipment	Total
Radios:	
VHF, Portable, Low-Power	9
VHF, Vehicle Mount, Medium-Power	7

* In the airborne brigade (IFV), the battery headquarters may also have a 1V119 command vehicle.

ATGM Platoon, ATGM Btry, Abn Bde (IFV) (Div) or ATGM Bn, Arty Regt, Abn Div



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM, Manpack, AT-4/SPIGOT	6
APC, BTR-RD	3

Equipment	Total
Radios:	
VHF, Portable, Low-Power	4
VHF, Vehicle Mount, Medium-Power	3

* The platoon leader and assistant platoon leader ride in extra seats in the ATGM section vehicles.

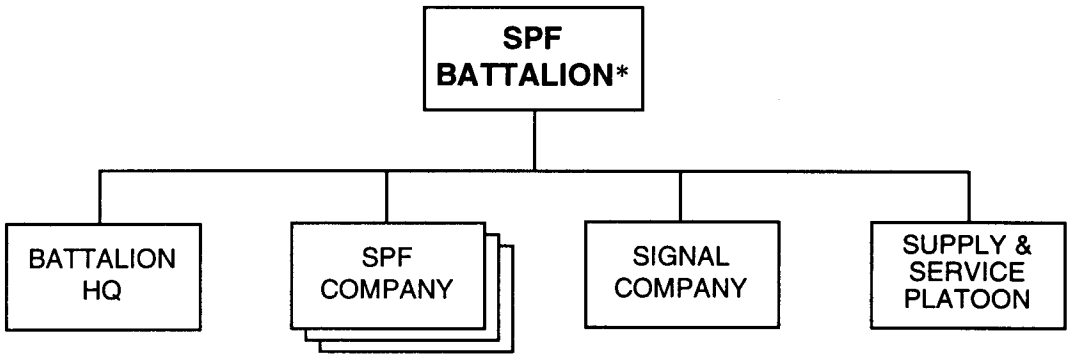
** ATGMs deploy by sections. Each section consists of two teams, each containing one AT-4/SPIGOT launcher.

*** Each of the three APCs in the motor transport section can carry one ATGM section.

Special-Purpose Forces

The Main Intelligence Directorate of the General Staff controls all special-purpose forces (SPF). The General Staff would normally reserve some SPF brigades under its own control to engage strategic-level targets. If the General Staff creates a theater headquarters, it may place an SPF brigade under the operational control of the intelligence directorate at that level. An army group typically includes an SPF brigade allocated from the Main Intelligence Directorate of the General Staff. That directorate also may allocate up to a battalion of SPF to support the operations of an army. Although organized into brigades and battalions, SPF normally infiltrate and fight as small teams composed of 5 to 12 men. These teams may support strategic, operational, or tactical offensive and defensive actions. All SPF troops are airborne qualified.

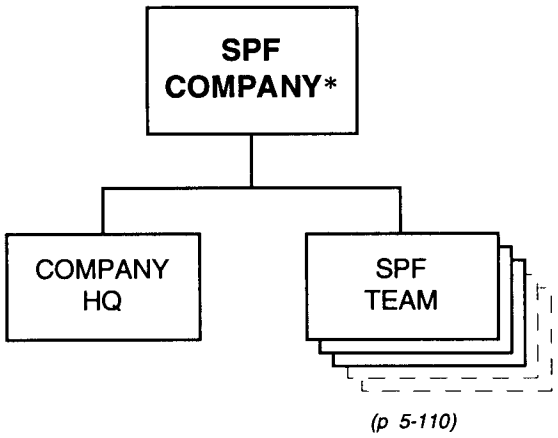
Special-Purpose Forces Battalion, Army or SPF Bde



(p 5-109)

* The battalion does not have a fixed structure. The size of an SPF company in an army-level battalion differs greatly from the company size in a battalion of an SPF brigade. The total number of teams an army-level SPF battalion can deploy varies from 9 to 15. However, an SPF battalion in an SPF brigade can deploy from 27 to 30 teams. The number of teams deployed generally depends on the team size required for specific missions.

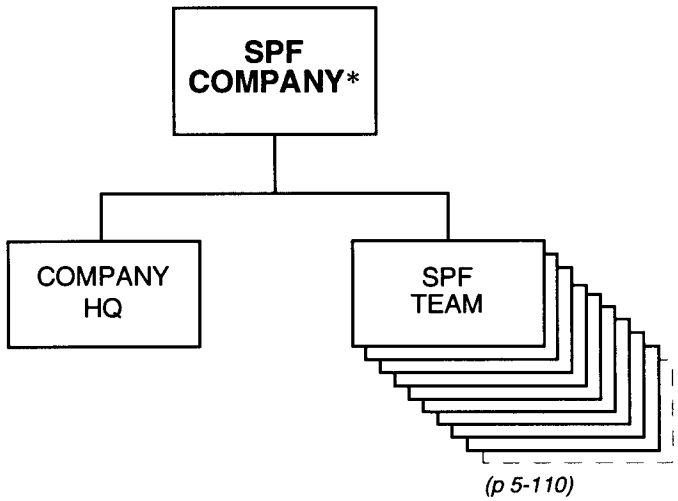
Special-Purpose Forces Company, SPF Bn, Army



(p 5-110)

* The SPF company does not have a fixed structure. In an army-level SPF battalion, it may have from three to five SPF teams. The number of teams deployed generally depends on the team size required for specific missions.

Special-Purpose Forces Company, SPF Bn, SPF Bde



(p 5-110)

* The SPF company does not have a fixed structure. In an SPF battalion of an SPF brigade, it may have from 9 to 10 SPF teams. The number of teams deployed generally depends on the team size required for specific missions.

Special-Purpose Forces Team, SPF Co _____

SPECIAL-PURPOSE FORCES TEAM

Team Leader (Officer)..... AKS-74 or AKSU, PM
Asst Team Leader (WO or Senior NCO) ..... AKS-74 or AKSU, PM
1-2x Communications Specialist..... Radio, AKS-74 or AKSU-74, PM
1-2x Weapons Specialist..... RPG-16D, PM
1-2x Demolitions Specialist..... AKS-74 or AKSU-74, PM
0-4x Reconnaissance Specialist..... AKS-74 or AKSU-74, PM

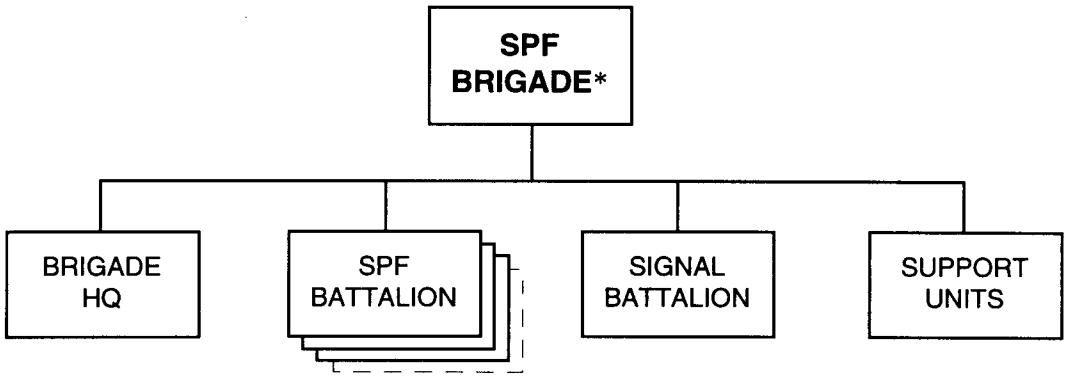
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
9-mm Pistol, PM	5-12
5.45-mm Assault Rifle, AKS-74 or 5.45-mm Submachinegun, AKSU-74	4-10
7.62-mm Sniper Rifle, SVD	1

Equipment	Total
40-mm Under-Barrel Grenade Launcher, GP-25/30	2-5
ATGL, RPG-16D	1-2
Night-Vision Goggles	1
Night-Vision Sight (Small Arms)	2-5
Radio, Burst-Transmission	1-2

* Team composition is not fixed. The organization above shows the variations that might exist within a typical SPF team. In keeping with its behind-the-lines missions, the team is lightly equipped. Each soldier normally has an assault rifle, a silenced pistol, a knife, and up to eight hand grenades of various types. In addition, the team's equipment normally includes an SVD sniper rifle, directional mines, explosives, and night-vision devices. The team can also receive a laser target designator, automatic grenade launchers, shoulder-fired SAMs, manpack ATGMs, or RPO flamethrowers. Equipment may vary with the mission. At least one team member is trained as a medic.

Special-Purpose Forces Brigade, Army Group



(p 5-108)

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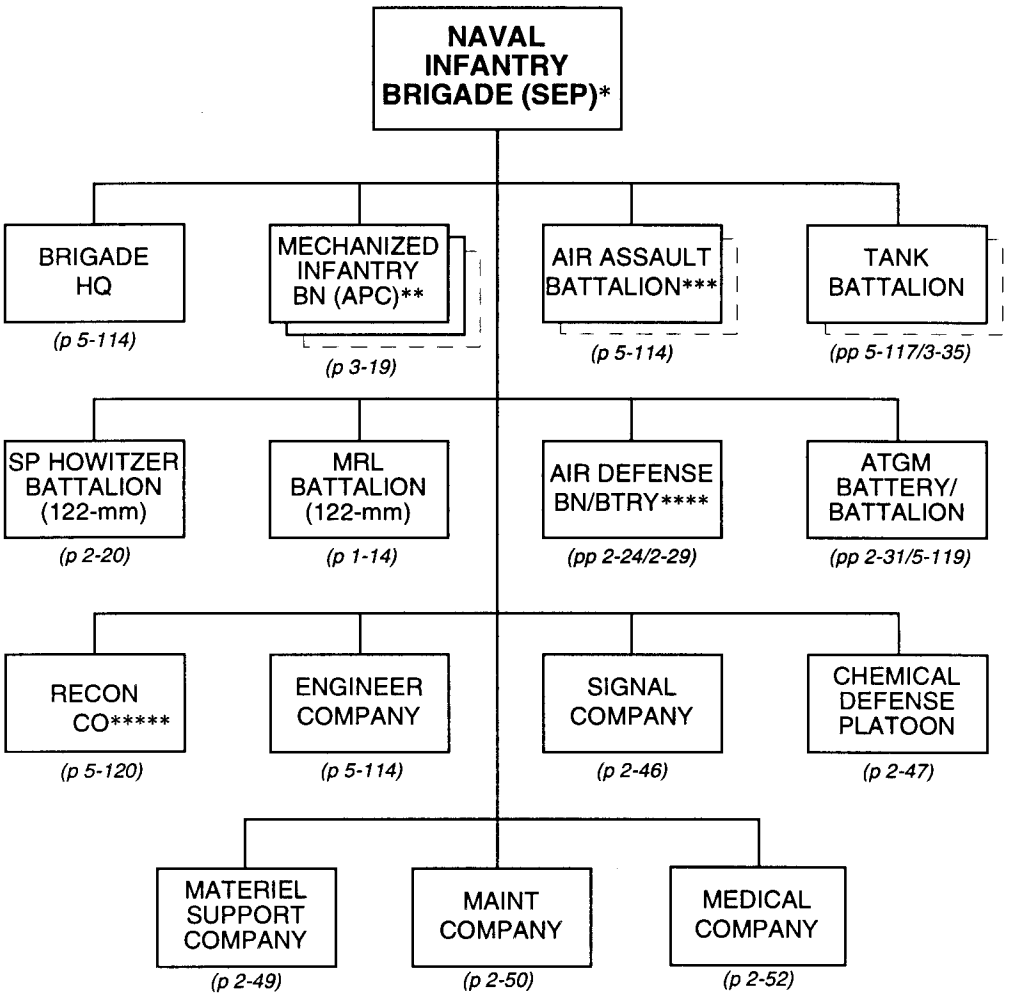
* The SPF brigade structure is not fixed. This chart represents the organization of a typical brigade, which may deploy about 80 to 100 SPF teams. The number of teams deployed generally depends on the team size required for specific missions.

Naval Infantry Forces

Naval infantry is a branch of the OPFOR Navy. Naval infantry units are operationally subordinate to fleet commanders. However, they may conduct amphibious landings in support of an army group or a theater command as part of combined arms operations. The organization of a naval infantry battalion is similar to that of a mechanized infantry battalion in the ground forces. These battalions, together with specially organized tank battalions and combat support and combat service support assets, form brigades.

There are two types of naval infantry brigade. A fleet may have a naval infantry division composed of ***divisional*** naval infantry brigades. However, most fleets have only a ***separate*** naval infantry brigade that is not part of a division. Besides having more maneuver battalions, a separate brigade has some of the combat support and combat service support assets normally found at division level. It needs these in order to fight more independently, without relying on support from a parent division. Higher command may allocate a naval infantry brigade of either type to support an army group in a given operation.

Naval Infantry Brigade (Sep)



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* The separate naval infantry brigade can have a total of four mechanized infantry or air assault battalions, plus one or two tank battalions.

** Most mechanized infantry battalions are APC-equipped. These may have BTR-60/70/80 wheeled APCs, as shown on p 3-19, or MT-LB tracked APCs in a similar organization. However, some mechanized infantry battalions may be IFV-equipped (p 3-3).

*** The air assault battalion may be equipped with airborne IFVs, as in the airborne battalion (p 5-91). However, it could have the same basic structure and equipment as an APC-equipped mechanized infantry battalion (p 3-19), but with airborne-qualified troops.

**** The brigade may have an air defense battalion of the type shown on p 2-24 or an air defense battery, as shown on p 2-29.

***** Instead of the structure on p 5-120, the reconnaissance company may have the structure shown on p 2-37. Alternatively, the brigade may have a long-range reconnaissance company of the type shown on p 1-49.

(continued)

Naval Infantry Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x3)*	*Air Assault Bn*	*Tank Bn*	*122-mm SP How Bn*	*122-mm MRL Bn*	*Air Defense Bn*	*ATGM Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Co*	*TOTAL*
ARMORED VEHICLES																
Medium Tank, T-64K/72K/80K				1												1
Medium Tank, T-64/72/80				20												20
Light Amphibious Tank, PT-76				20					3							23
IFV, BMD-1/2/3			33													33
APC, BTR-D			3													3
APC, BTR-ZD			3													3
ACV, BMD-1KSh			2								5					7
APC, BTR-60/70/80	1	141					6									148
APC, BTR-60PBK/70K/80K		3														3
APC, BTR-60PA (FAC)	1															1
ACV, BTR (R-145BM)		9		2						1	3					15
APC, BTR (R-145BM)/BRDM-2U								1								1
ASC, BRDM-2									8							8
ACV, BRDM-2U								12	1							13
Chem Recon Vehicle, BRDM-2RKh/RKhM												3				3
Mobile Recon Post, PRP-3/4**					1											1
ACRV, 1V13/1V13M/1V22					3											3
ACRV, 1V14/1V14M/1V23					3											3
ACRV, 1V15/1V15M/1V24					1											1
ACRV, 1V16/1V16M/1V25					1											1
ACRV, 1V18/1V152***						3										3
ACRV, 1V19/1V152***						1										1
ACV, PPRU****							2									2
ACV, BTR-60 (PU-12)							2									2
Armored Recovery Vehicle														3		3
Armored Maintenance Vehicle, MTP														3		3
WEAPONS																
30-mm Auto Grenade Launcher, AGS-17		18	6													24
120-mm or 82-mm Mortar		18														18
122-mm SP Howitzer, 2S1*****					18											18
122-mm Laser-Guided Projectile Set					4											4
122-mm MRL, BM-21						18										18
73-mm Recoilless Gun, SPG-9		9														9
ATGM Manpack, AT-4/SPIGOT		18														18
ATGM Manpack, AT-7/SAXHORN		27														27
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL								27								27
30-mm SP AA System, 2S6******							6									6
SAM, SA-13/GOPHER TELAR*******							6									6
SAM, Shoulder-Fired	3	27	9		18	18	18									93

* This system includes the TALL MIKE battlefield surveillance radar.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** The 1V152 ACRVs may be part of the Kapustnik-B automated fire control system.

**** The PPRU system includes the DOG EAR target acquisition radar.

***** In the naval infantry brigade, the 120-mm combination gun 2S9 may replace the 2S1.

****** The ZSU-23-4 system includes the GUN DISH fire control radar. The 2S6 system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

******* This system includes a ranging radar.

(continued)

Naval Infantry Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x3)*	*Air Assault Bn*	*Tank Bn*	*122-mm SP How Bn*	*122-mm MRL Bn*	*Air Defense Bn*	*ATGM Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Co*	*TOTAL*
ENGINEER EQUIPMENT																
Tracked Amphibian, PTS-M										3						3
Trailer, Amphibious, PKP										1						1
Bridge, Tank-Launched										1						1
Bridge, Truck-Launched										4						4
Minelayer, PMR/GMZ										3						3
Mineclearing Plow				6												6
Mine Roller-Plow										2						2
Mine Detector, DIM										1						1
Armored Engineer Tractor, IMR										1						1
Ditching Machine, BTM/MDK										1						1
Ditching Machine, PZM/TMK										3						3
Route-Clearing Vehicle, BAT										1						1
Truck, Water Purification										1						1
TRUCKS																
ACRV, 1V110/1V153*						3										3
ACRV, 1V111/1V153*						1										1
Truck, Utility	3	12	1			1		3		4	5		2	1	1	33
Truck, Light		39	4		4		3	4			3		4			61
Truck, Medium	1	12	4	9	14	37	4	16		8			45	2	7	159
Truck, Crane										1						1
Truck, Crane Shovel										1						1
Truck, Decon, ARS-12U/14												3				3
Truck, Decon, DDA-53/66												1			1	2
Truck, Dump										2						2
Truck, POL (5,000-L)		9		7	2	3	2	3					15			41
Truck, POL (4,000-L)			2													2
Truck, Water (2,000-L)												2	4		2	8
Van, Command	3															3
Van, Hospital															9	9
Van, Kitchen		3		1												4
Van, Maintenance		3	1	1	2	3		2		1			1	12		26
Van, Signal			1		4	4		2			5					16
Ambulance		3	1	1	1	1		1							4	12
TRAILERS																
Trailer, Cargo, 1-Axle		6	2	1						6						15
Trailer, Cargo, 2-Axle				6	16	27		8		2			30	6	7	102
Trailer, Compressor										1						1
Trailer, Generator		3	1	1	2	2	2	1			1		1	3	2	19
Trailer, Kitchen		9	3		3	3		1					2		2	23
Trailer, POL (4,200-L)		9		6	2	3		3					15			38
Trailer, POL (1,200-L)			2													2
Trailer, Water (900/1,200-L)		3	1	1	1	1		1				2	1		1	12

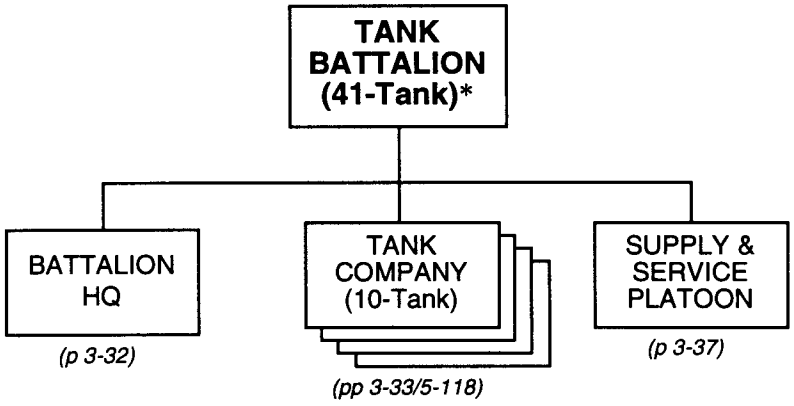
* The 1V153 ACRVs may be part of the Kapustnik-B automated fire control system.

(continued)

Naval Infantry Brigade (Sep) (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x3)*	*Air Assault Bn*	*Tank Bn*	*122-mm SP How Bn*	*122-mm MRL Bn*	*Air Defense Bn*	*ATGM Bn*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Co*	*TOTAL*
RADAR																
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		3						4	3							10
RADIOS																
VHF, Manpack, Low-Power	3	48	9	1	10	18		16			7		1	1	1	115
VHF, Portable, Low-Power		87	17				4		9							117
VHF, Portable, Very-Low-Power		12	4				8									24
VHF, Vehicle Mount, Medium-Power	2	156	41	43	27	6	22	40	12	7	8	3		6		373
HF, Manpack, Low-Power				2						4	2	1				9
HF, Vehicle Mount, Medium-Power		12	1	7			1	1	1	1	8					32
HF/VHF, Vehicle Mount, Medium-Power					4	4		3			1					12
HF/VHF, Vehicle Mount, High-Power											2					2
HF, Vehicle Mount, High-Power											2					2
Radio Relay, VHF/UHF								1			2					3
Ground-to-Air Set			2													2
Burst-Transmission			5													5
Warning Receiver		3	2	1	2		4	1	1		3					17
MISCELLANEOUS																
Rangefinder, Laser		3			7	7		3								20
Rangefinder, Laser, Binocular					9	9										18
GPS Receiver					32	32										64
Periscopic Aiming Circle		3			6	6										15
Collimator		18														18
Motorcycle											3					3

Tank Battalion (41-Tank), Naval Inf Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total	
Medium Tank, T-64K/72K/80K (Command Vehicle)	1	
Medium Tank, T-64/72/80	20	
Light Amphibious Tank, PT-76	20	
ACV, BTR (R-145BM)	1	
ACV, BMP-1K/2K/3K	1	**
9-mm Pistol, PM	67	
5.45-mm Assault Rifle, AKS-74	96	
ATGL, RPG-7V	2	
Mineclearing Plow, KMT-6/8	6	
Truck, Medium	9	
Truck, POL (5,000-Liter)	7	***
Van, Kitchen	1	
Van, Maintenance	1	
Ambulance	1	

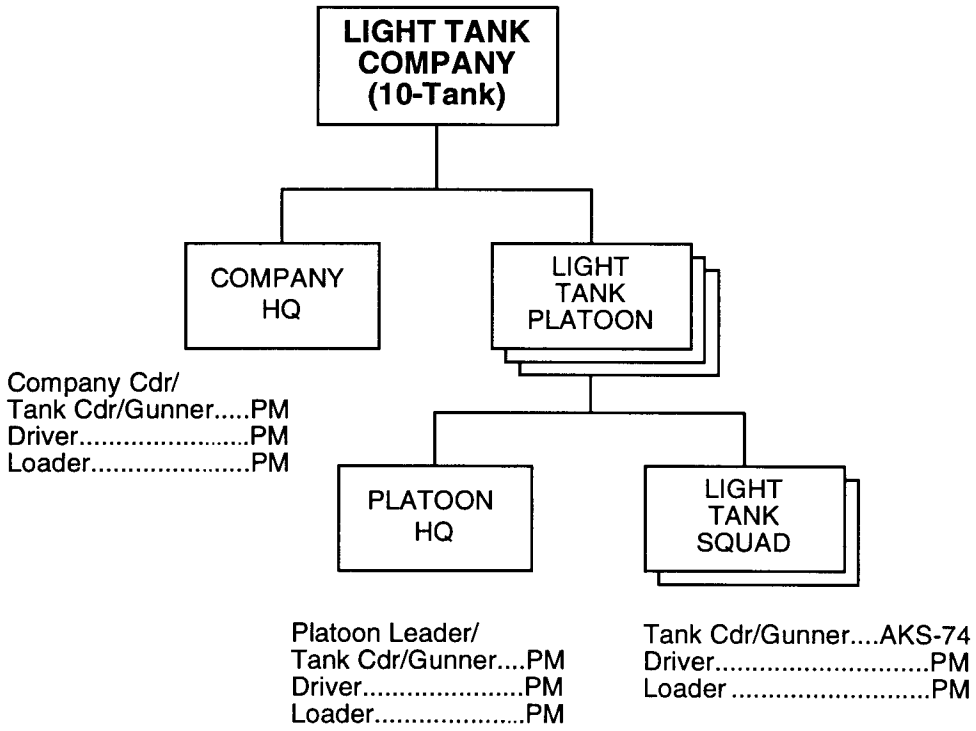
Equipment	Total	
Trailer, Cargo, 1-Axle	1	
Trailer, Cargo, 2-Axle	6	
Trailer, Generator	1	
Trailer, POL (4,200-Liter)	6	***
Trailer, Water (900-Liter)	1	
Night-Vision Goggles	2	
Night-Vision Sight (Small Arms)	6	
Radios:		
VHF, Manpack, Low-Power	1	
VHF, Vehicle Mount, Medium-Power	43	
HF, Manpack, Low-Power	2	
HF, Vehicle Mount, Medium-Power	7	
Warning Receiver	1	

* This battalion may have a mix of medium and light tank companies. The equipment list here assumes two companies of each type, but the mix can vary.

** In an APC-equipped naval infantry brigade, the battalion may use a second ACV, BTR (R-145BM), instead of the BMP-1K/2K/3K.

*** With a third medium tank company, the battalion requires 8 POL trucks, and with four such companies, it needs 9 POL trucks. If two or three companies have gas-turbine-powered T-80 tanks, there would be a seventh POL trailer. A battalion fully equipped with T-80s requires 9 POL trucks and 9 POL trailers.

Light Tank Company (10-Tank), TBN, Naval Inf Bde

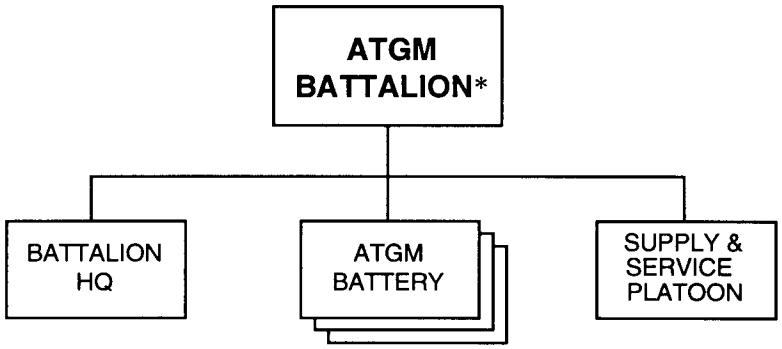


PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
Light Amphibious Tank, PT-76	10
9-mm Pistol, PM	24
5.45-mm Assault Rifle, AKS-74	6

Equipment	Total
Radios:	
VHF, Vehicle Mount, Medium-Power	10
HF, Vehicle Mount, Medium-Power	1

ATGM Battalion, Naval Inf Bde (Sep) or Naval Inf Div



(p 2-31)

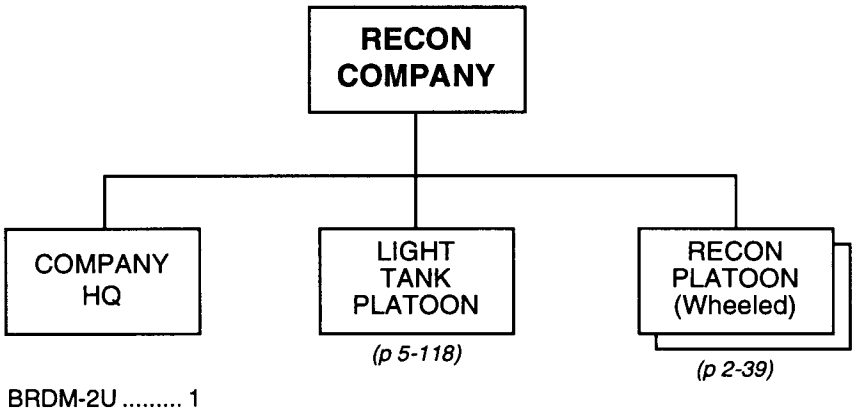
PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ATGM Vehicle, 9P148, w/AT-5/SPANDREL	27
ATGL, RPG-7V	27
ACV, BTR (R-145BM)/BRDM-2U	1
ACV, BRDM-2U	12
Truck, Utility	3
Truck, Light	4
Truck, Medium	16
Truck, POL (5,000-Liter)	3
Van, Maintenance	2
Van, Signal	2
Ambulance	1
Trailer, Cargo, 2-Axle	8
Trailer, Generator	1
Trailer, Kitchen	1

Equipment	Total
Trailer, POL (4,200-Liter)	3
Trailer, Water (900-Liter)	1
Rangefinder, Laser, 1D8/1D12	3
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	4
Radios:	
VHF, Manpack, Low-Power	16
VHF, Vehicle Mount, Medium-Power	40
HF/VHF, Vehicle Mount, Medium-Power	3
HF, Vehicle Mount, Medium-Power	1
Radio Relay, VHF/UHF	1
Warning Receiver	1

* The ATGM battalion has subordinate elements similar to those for an antitank battalion (p 1-42 or p 2-32), except that it has three ATGM batteries and no antitank gun batteries.

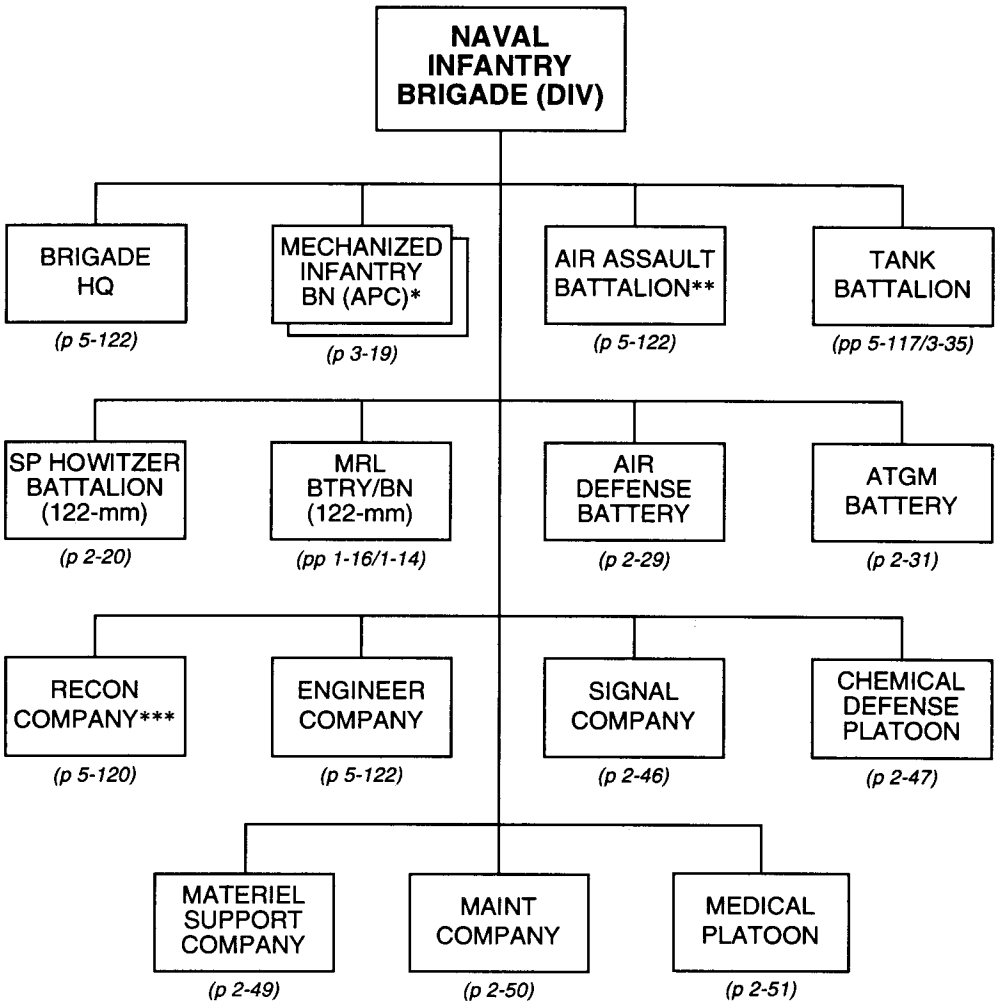
Reconnaissance Company, Naval Inf Bde



PRINCIPAL ITEMS OF EQUIPMENT

Equipment	Total
ACV, BRDM-2U	1
ASC, BRDM-2	8
Light Tank, PT-76	3
9-mm Pistol, PM	17
5.45-mm Assault Rifle, AK-74/AKS-74	37
40-mm Under-Barrel Grenade Launcher, GP-25/30	9
ATRL, RPG-22/26	9
Night-Vision Goggles	9
Night-Vision Sight (Small Arms)	9
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE	3
Radios:	
VHF, Portable, Low-Power	9
VHF, Vehicle Mount, Medium-Power	12
HF, Vehicle Mount, Medium-Power	1
Warning Receiver	1

Naval Infantry Brigade (Div), Naval Inf Div



* Most mechanized infantry battalions are APC-equipped. These may have BTR-60/70/80 wheeled APCs, as shown on p 3-19, or MT-LB tracked APCs in a similar organization. However, some mechanized infantry battalions may be IFV-equipped (p 3-3). It is even possible for a naval infantry division to have one brigade that consists entirely of IFV-equipped battalions.

** The air assault battalion may be equipped with airborne IFVs, as in the airborne battalion (p 5-91). However, it could have the same basic structure and equipment as an APC-equipped mechanized infantry battalion (p 3-19), but with airborne-qualified troops.

*** Instead of the structure on p 5-120, the reconnaissance company may have the structure shown on p 2-37. Alternatively, the brigade may have a long-range reconnaissance company of the type shown on p 1-49.

(continued)

Naval Infantry Brigade (Div), Naval Inf Div (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x2)*	*Air Assault Bn*	*Tank Bn*	*122-mm SP How Bn*	*122-mm MRL Btry*	*Air Defense Btry*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ARMORED VEHICLES																
Medium Tank, T-64K/72K/80K				1												1
Medium Tank, T-64/72/80				20												20
Light Amphibious Tank, PT-76				20					3							23
IFV, BMD-1/2/3			33													33
APC, BTR-D			3													3
APC, BTR-ZD			3													3
ACV, BMD-1KSh			2								5					7
APC, BTR-60/70/80	1	94														95
APC, BTR-60PBK/70K/80K		2														2
ACV, BTR (R-145BM)		6		2						1	3					12
APC, BTR-60PA (FAC)	1															1
ASC, BRDM-2									8							8
ACV, BRDM-2U								4	1							5
Chem Recon Vehicle, BRDM-2RKh/RKhM												3				3
Mobile Recon Post, PRP-3/4**					1											1
ACRV, 1V13/1V13M/1V22					3											3
ACRV, 1V14/1V14M/1V23					3											3
ACRV, 1V15/1V15M/1V24					1											1
ACRV, 1V16/1V16M/1V25					1											1
ACRV, 1V18/1V152***						1										1
ACV, BTR-60 (PU-12) or PPRU****							3									3
Armored Recovery Vehicle														3		3
Armored Maintenance Vehicle, MTP														3		3
WEAPONS																
30-mm Auto Grenade Launcher, AGS-17		12	6													18
120-mm or 82-mm Mortar		12														12
122-mm SP Howitzer, 2S1*****					18											18
122-mm Laser-Guided Projectile Set					4											4
122-mm MRL, BM-21						6										6
73-mm Recoilless Gun, SPG-9		6														6
ATGM Manpack, AT-4/SPIGOT		12														12
ATGM Manpack, AT-7/SAXHORN		18														18
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL								9								9
23-mm SP AA Gun, ZSU-24-4 or 30-mm SP AA System, 2S6******							4									4
SAM, SA-13/GOPHER TELAR*******							4									4
SAM, Shoulder-Fired	3	18	9		18	6										54

* This system includes the TALL MIKE battlefield surveillance radar.
** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.
*** The 1V152 ACRV may be part of the Kapustnik-B automated fire control system.
**** The PPRU system includes the DOG EAR target acquisition radar.
***** In the naval infantry brigade, the 120-mm SP combination gun 2S9 may replace the 2S1.
****** The ZSU-23-4 system includes the GUN DISH fire control radar. The 2S6 system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.
******* This system includes a ranging radar.

(continued)

Naval Infantry Brigade (Div), Naval Inf Div (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x2)*	*Air Assault Bn*	*Tank Bn*	*122-mm SP How Bn*	*122-mm MRL Btry*	*Air Defense Btry*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
ENGINEER EQUIPMENT																
Tracked Amphibian, PTS-M										3						3
Trailer, Amphibious, PKP										1						1
Bridge, Tank-Launched										1						1
Bridge, Truck-Launched										4						4
Minelayer, PMR/GMZ										3						3
Mineclearing Plow				6												6
Mine Roller-Plow										2						2
Mine Detector, DIM										1						1
Armored Engineer Tractor, IMR										1						1
Ditching Machine, BTM/MDK										1						1
Ditching Machine, PZM/TMK										3						3
Route-Clearing Vehicle, BAT										1						1
Truck, Water Purification										1						1
TRUCKS																
ACRV, 1V110/1V153*						1										1
Truck, Utility	3	8	1							4	5		2	1		24
Truck, Light		26	4		4		2				3		4		1	44
Truck, Medium	1	8	4	9	14	6	2	3		8			45	2	2	104
Truck, Crane										1						1
Truck, Crane Shovel										1						1
Truck, Decon, ARS-12U/14												3				3
Truck, Decon, DDA-53/66												1			1	2
Truck, Dump										2						2
Truck, POL (5,000-L)		6		7	2								15			30
Truck, POL (4,000-L)			2													2
Truck, Water (2,000-L)												2	4			6
Van, Command	3															3
Van, Hospital															1	1
Van, Kitchen		2		1												3
Van, Maintenance		2	1	1	2		2			1			1	12		22
Van, Signal			1		4	1					5					11
Ambulance		2	1	1	1										4	9
TRAILERS																
Trailer, Cargo, 1-Axle		4	2	1						6						13
Trailer, Cargo, 2-Axle				6	16	3				2			30	6		63
Trailer, Compressor										1						1
Trailer, Generator		2	1	1	2		2				1		1	3		13
Trailer, Kitchen		6	3		3								2		1	15
Trailer, POL (4,200-L)		6		6	2								15			29
Trailer, POL (1,200-L)			2													2
Trailer, Water (900/1,200-L)		2	1	1	1							2	1		1	9

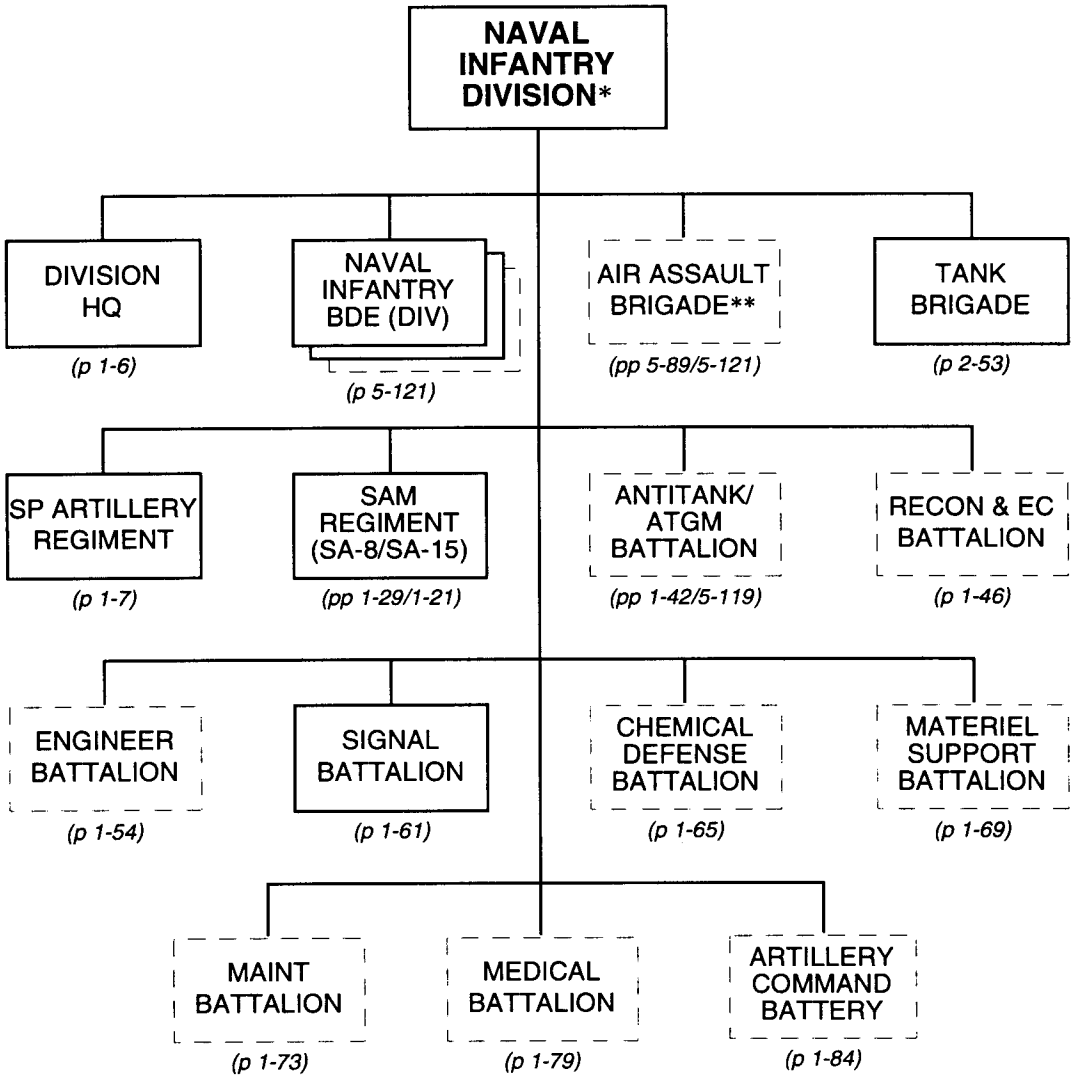
* The 1V153 ACRV may be part of the Kapustnik-B automated fire control system.

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Naval Infantry Brigade (Div), Naval Inf Div (continued)

Principal Items of Equipment	*Brigade HQ*	*Mech Inf Bn (APC) (x2)*	*Air Assault Bn*	*Tank Bn*	*122-mm SP How Bn*	*122-mm MRL Btry*	*Air Defense Btry*	*ATGM Btry*	*Recon Co*	*Engineer Co*	*Signal Co*	*Chem Defense Plt*	*Materiel Support Co*	*Maintenance Co*	*Medical Plt*	*TOTAL*
RADAR																
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		2						1	3							6
RADIOS																
VHF, Manpack, Low-Power	3	32	9	1	10	4	2	4			7		1	1	1	75
VHF, Portable, Low-Power		58	17						9							84
VHF, Portable, Very-Low-Power		8	4													12
VHF, Vehicle Mount, Medium-Power	2	104	41	43	27	2	11	13	12	7	8	3		6		279
HF, Manpack, Low-Power				2						4	2	1				9
HF, Vehicle Mount, Medium-Power		8	1	7					1	1	8					26
HF/VHF, Vehicle Mount, Medium-Power					4	1					1					6
HF/VHF, Vehicle Mount, High-Power											2					2
HF, Vehicle Mount, High-Power											2					2
Radio Relay, VHF/UHF											2					2
Ground-to-Air Set			2													2
Burst-Transmission			5													5
Warning Receiver		2	2	1	2		3		1		3					14
MISCELLANEOUS																
Rangefinder, Laser		2			7	2		1								12
Rangefinder, Laser, Binocular					9	3										12
GPS Receiver					32	10										42
Periscopic Aiming Circle		2			6	2										10
Collimator		12														12
Motorcycle											3					3

Naval Infantry Division



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* A naval infantry division may have three divisional naval infantry brigades. Alternatively, it may have two such brigades, plus one air assault brigade. In either case, it has one tank brigade. Aside from these maneuver elements, the division normally has a self-propelled artillery regiment, a SAM regiment, and a signal battalion. The remaining subordinates shown here may or may not be present.

** The air assault brigade may be equipped with airborne IFVs, as in the divisional airborne brigade (p 5-89). However, it could have the same basic structure and equipment as a divisional naval infantry brigade (p 5-121), but with airborne-qualified troops.

(continued)

Naval Infantry Division (continued)

Principal Items of Equipment	*Division HQ*	*Naval Inf Bde (Div) (x2)*	*Air Assault Bde*	*Tank Bde*	*SP Arty Regt*	*SAM Regt (SA-8)*	*Signal Bn*	*TOTAL*
ARMORED VEHICLES								
Medium Tank, T-64K/72K/80K		2		4				6
Medium Tank, T-64/72/80		40		90				130
Light Amphibious Tank, PT-76		46						46
ACV, BMP-1K/2K/3K				6				6
IFV, BMP-1/2/3				10				10
IFV, BMD-1/2/3		66	101					167
APC, BTR-D		6	23					29
APC, BTR-RD		6	6					12
APC, BTR-ZD		6	13					19
ACV, BMD-1KSh		14	8					22
ACV, BMP-1KSh				5				5
ACV, BRM-1K/3K*				3				3
APC, BTR-60/70/80	3	190		1	1			195
ACV, BTR-60PBK/70K/80K		4						4
ACV, BTR (R-145BM)		24		7	3		8	42
ACV, BRDM-2U		10		4				14
ASC, BRDM-2		16	4	4				24
APC, BTR-60PA (FAC)		2		1				3
Chem Recon Vehicle, BRDM-2RKh/RKhM		6		3	4	3		16
Mobile Recon Post, PRP-3/4**		2		1	5			8
APC, Radar, MT-LB (SNAR-10)***					1			1
APC, Radar, MT-LB (ARK-1)****					1			1
ACRV, 1V13/1V13M/1V22		6		3	9			18
ACRV, 1V14/1V14M/1V23		6		3	9			18
ACRV, 1V15/1V15M/1V24		2		1	3			6
ACRV, 1V16/1V16M/1V25		2		1	3			6
ACRV, 1V18/1V52*****		2			3			5
ACRV, 1V19/1V52*****					1			1
ACRV, 1V119			10					10
ACV, PPRU******				2				2
ACV, BTR-60 (PU-12) or PPRU******		6						6
ACV, BTR-60 (PU-12)				2		6		8
Armored Recovery Vehicle		6		5	1			12
Armored Maintenance Vehicle, MTP		6						6
Tgt Acq Radar Vehicle						2		2

* This system includes the TALL MIKE battlefield surveillance radar.

** This system includes the SMALL FRED or TALL MIKE battlefield surveillance radar.

*** This system includes the BIG FRED battlefield surveillance radar.

**** This system includes the RICE BAG countermortar/counterbattery radar.

***** The 1V152 ACRVs may be part of the Kapustnik-B automated fire control system.

****** The PPRU system includes the DOG EAR target acquisition radar.

(continued)

Naval Infantry Division (continued)

Principal Items of Equipment	*Division HQ*	*Naval Inf Bde (Div) (x2)*	*Air Assault Bde*	*Tank Bde*	*SP Arty Regt*	*SAM Regt (SA-8)*	*Signal Bn*	*TOTAL*
WEAPONS								
30-mm Auto Grenade Launcher, AGS-17		36	18					54
120-mm SP Combination Gun, 2S9			18					18
120-mm Laser-Guided Projectile Set			4					4
120-mm or 82-mm Mortar		24						24
122-mm SP Howitzer, 2S1*		36		18				54
122-mm Laser-Guided Projectile Set		8		4				12
122-mm MRL, BM-21		12			18			30
152-mm SP Howitzer, 2S3 or 2S19					54			54
152-mm Laser-Guided Projectile Set					12			12
73-mm Recoilless Gun, SPG-9		12						12
ATGM Manpack, AT-4/SPIGOT		24	12					36
ATGM Manpack, AT-7/SAXHORN		36						36
ATGM Vehicle, 9P148 w/ AT-5/SPANDREL		18		9				27
23-mm AA Gun, ZU-23			6					6
23-mm SP AA Gun, ZSU-23-4, or 30-mm SP AA System, 2S6**		8		6				14
SAM, SA-13/GOPHER TELAR***		8		6				14
SAM, SA-8/GECKO TELAR****						20		20
SAM, Shoulder-Fired	6	108	57	39	75	21		306
ENGINEER EQUIPMENT								
Bridge, Tank-Launched		2		3				5
Bridge, Truck-Launched		8		4				12
Minelayer, PMR/GMZ		6		3				9
Mineclearing Plow		12		27				39
Mine Roller-Plow		4		9				13
Mine Detector, DIM		2		1				3
Armored Engineer Tractor, IMR		2		1				3
Ditching Machine, BTM/MDK		2		1				3
Ditching Machine, PZM/TMK		6		3				9
Route-Clearing Vehicle, BAT/PKT		2		1				3
Tracked Amphibian, PTS-M		6						6
Trailer, Amphibious, PKP		2						2
Truck, Water Purification		2		1				3
TRUCKS								
ACRV, 1V110/1V53*****		2			3			5
ACRV, 1V111/1V53*****					1			1
Truck, Utility	12	48	14	17	9	7	12	119
Truck, Light	9	88	95	15	6	25	7	245
Truck, Medium	4	208	73	101	151	29	9	575
Truck, Heavy, with Crane				9				9

* In the naval infantry brigade, the 120-mm SP combination gun 2S9 may replace the 2S1.

** The ZSU-23-4 system includes the GUN DISH fire control radar. The 2S6 system includes SA-19/GRISON SAM launchers and HOT SHOT target acquisition and fire control radars.

*** This system includes a ranging radar.

**** This TELAR includes the LAND ROLL fire control/target acquisition radar.

***** The 1V153 ACRVs may be part of the Kapustnik-B automated fire control system.

(continued)

Naval Infantry Division (continued)

Principal Items of Equipment	*Division HQ*	*Naval Inf Bde (Div) (x2)*	*Air Assault Bde*	*Tank Bde*	*SP Arty Regt*	*SAM Regt (SA-8)*	*Signal Bn*	*TOTAL*
TRUCKS (continued)								
Truck, Chem Recon, UAZ-69RKh			4					4
Truck, Crane		2		1		2		5
Truck, Crane Shovel		2		1				3
Truck, Decon, ARS-12U/14		6		3	3	3		15
Truck, Decon, DDA-53/66		4		2	2	1		9
Truck, Dump		4		2				6
Truck, POL (5,000-L)	1	60		34	21	6	3	125
Truck, POL (4,000-L)		4	23					27
Truck, Water (2,000-L)		12		6	2	2		22
Van, Command	12	6		3				21
Van, Computer						1		1
Van, Hospital		2		1	1			4
Van, Kitchen		6		3				9
Van, Maintenance	1	44	14	19	22	12	4	116
Van, Medium						11		11
Van, Missile Testing						5		5
Van, Radar						1		1
Van, Signal	2	22	10	9	18	4	33	98
Van, Survey					1			1
Ambulance	1	19	6	8	8	2	1	45
TRAILERS								
Trailer, Cargo, 1-Axle	4	28	19	9	1		10	71
Trailer, Cargo, 2-Axle		126		73	112	15		326
Trailer, Compressor		2						2
Trailer, Generator	3	26	5	12	14	13	10	83
Trailer, Kitchen	3	30	22	6	15	11	2	89
Trailer, POL (4,200-L)	1	58		29	21	6	3	118
Trailer, POL (1,200-L)		4	11			2		17
Trailer, Van						13		13
Trailer, Water (900-/1,200-L)	1	18	10	8	11	6	1	55
RADARS								
Radar, Aerial Surv/Tgt Acq, LONG TRACK						2		2
Radar, Battlefield Surveillance, Man-Portable, PSNR-1 or TALL MIKE		12	4	2				18
Radar, Height Finding, THIN SKIN						1		1

(continued)

Naval Infantry Division (continued)

Principal Items of Equipment	*Division HQ*	*Naval Inf Bde (Div) (x2)*	*Air Assault Bde*	*Tank Bde*	*SP Arty Regt*	*SAM Regt (SA-8)*	*Signal Bn*	*TOTAL*
RADIOS								
VHF, Manpack, Low-Power	5	150	68	37	70	11	20	361
VHF, Portable, Low-Power		168	60	8	1	3		240
VHF, Portable, Very-Low-Power		24	16	8		7		55
VHF, Vehicle Mount, Medium-Power	3	558	183	212	99	37	6	1098
HF, Manpack, Low-Power		18	2	15	2	3	5	45
HF, Vehicle Mount, Medium-Power		52	13	30	5		8	108
HF/VHF, Vehicle Mount, Medium-Power		12	5	2	19	4	7	49
HF/VHF, Vehicle Mount, High-Power	2	4	1	6	1	2	8	24
HF, Vehicle Mount, High-Power		4		1				5
Radio Relay, VHF/UHF		4		2	1	1	6	14
Communications Center							2	2
Ground-to-Air Set		4	11					15
Burst-Transmission		10	17					27
Warning Receiver	1	28	12	13	9	7	3	73
MISCELLANEOUS								
SA-8 Missile Transloader (TELAR Chassis)						10		10
Sound-Ranging Set					1			1
Rangefinder, Laser		24	5	8	31			68
Rangefinder, Laser, Binocular		24	9	30	36			99
GPS Receiver		84	32	32	133			281
Periscopic Aiming Circle		20	6		27			53
Collimator		24						24
Motorcycle		6		3			13	22

Appendix A
Maneuver and Fire Support Equipment Substitution Matrices

The matrices in this appendix illustrate some of the different equipment options available to scenario and order of battle developers. In most cases, this organization guide provides a baseline of widely used systems produced in the former Soviet Union (FSU) that are available in militarily significant numbers. However, there may be cases in which an FSU-developed system not yet produced in large numbers still can reflect a particular level of capability that it has in common with similar systems available on the world market. The intent of the capabilities-based OPFOR is to allow users to tailor their orders of battle by substituting other worldwide systems. Deviations from the baseline systems should relate to specific training objectives. For example, users may desire to mirror the actual mix of equipment found in a particular region or to introduce a particular weapons capability or vulnerability.

The matrices list most of the major ***baseline*** systems in the organization guide and provide a number of potential substitutes for each. While the lists of ***potential substitutes*** are not all-inclusive, they contain most common systems that have roughly ***comparable*** capabilities. They also contain some ***alternative*** systems that may perform the same missions (with greater or lesser capability) or have different capabilities for special uses. Entries may include system name, caliber of main armament, vehicle mount (for self-propelled systems), and digraph for country of origin. Entries within the alternative category also include one of the following symbols identifying each system's capabilities in relation to the baseline: more capable (+), less capable (-), or different capabilities for special uses (*).

Users substituting systems from the matrices or considering other foreign weapons systems for use in an OPFOR order of battle should evaluate candidate substitutes against the following criteria:

- ***Is the system available to potential adversaries?*** To satisfy this criterion, the system should be in service with the armed forces of countries traditionally hostile to the United States or widely exported on the world market.
- ***Does the system exist in large enough quantities to justify training against it?*** At a minimum, total system production should at least equal the numbers contained in a proposed order of battle. Moreover, U.S. military units using currently available equipment generally should not train against foreign developmental systems that have not reached initial operational capability (IOC).
- ***Does the mix and variety of systems in an order of battle conform to some logical pattern?*** Some users constructing a large order of battle may want to pattern the mix of system types and generations on some actual country. Others may wish to standardize systems throughout the order of battle for simplicity or ease in modeling. In any case, the systems portrayed generally should be in unit sets of brigade, regiment, or battalion size. Because of the logistics and training challenges involved in supporting a weapon system, users should avoid excessive variety.

Users should keep in mind that substitutions for major weapons systems may also affect the types and numbers of supporting systems.

Tank Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
T-80 Medium Tank (125-mm RS)	Challenger 2 (120-mm UK) Leclerc (120-mm FR) Leopard 2A5 (120-mm GM) M1A2 Export (120-mm US) Merkava Mk 3 (120-mm IS) PT-91 (125-mm PL) T-72M2 Moderna (125-mm LO)	T-72B (125-mm RS) (+) T-72S (125-mm RS) (+) T-80U (125-mm RS) (+) T-84 (125-mm UP)(+) T-90 (125-mm RS) (+) Cl Arieta (120-mm IT) (-)
T-72 Medium Tank (125-mm RS)	AMX-30 B2 (105-mm FR) K-l (120-mm KS) Leopard 2 (120-mm GM) Type 90 (120-mm JA)	M1Al (120-mm US) (+) M-84 (125-mm SF) (+) T-80 (125-mm RS) (+)
T-64 Medium Tank (125-mm RS)	Leopard 1 (105-mm GM) M-60A1/3 (105-mm US) Type 80 (105-mm CH)	T-80 (125-mm RS) (+) Type 85-III(125-mm CH) (-) Chieftain (120-mm UK)(-) Centurion (105-mm UK) (-) T-55 (100-mm RS) (-) Type 69-II (100-mm CH) (-)
KEY: (+) More capable. (-) Less capable.		

(continued)

Tank Substitution Matrix (continued)

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
PT-76 Light Amphibious Tank (76-mm RS)	AMX- 13 Light Tank (90-mm FR) PT-85 Light Amphibious Tank (85-mm KN) M41 Light Tank (90-mm US) Type 63 Light Amphibious Tank (85-mm CH) Type 62 Light Tank (85-mm CH)	T-55 Medium Tank (1 00-mm RS) (+) T-72 Medium Tank (125mm RS) (+) Type 59 Medium Tank (l00-mm CH) (+) Type 69 IIM Medium Tank (105-mm CH) (+) Scorpion Reconnaissance Vehicle/ Light Tank (76-mm UK) (*)
KEY: (+) More capable. (*) Different capabilities for special uses.		

Light Armored Vehicle Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
Infantry Fighting Vehicle BMP-1 (73-mm RS) BMP-2 (30-mm RS) BMP-3 (30/100-mm RS)	AMX-10P (20-mm FR) BVP M80A (20-mm YO) Marder 1A3 (20-mm GM) Warrior (30-mm UK)	BMD-1 (73-mm RS) (*)
Armored Scout Car BRDM-2 (14.5mm RS)	BRDM-1 (7.62-mm RS) EE-3 (12.7-mm BR) V-150 Commando (7.62-mm US)	Alvis Fox (20-mm UK) (+) Shorlund S52 (7.62-mm UK) (*)
Armored Command Vehicle (Reconnaissance) BRM-1 K (73-mm RS) BRM-3K (30/100-mm RS)	AMX-10 PAC-90 (90-mm FR) EE-9/Cascavel (90-mm BR) Scorpion (76/90-mm UK)	AMX-10 RAC (105-mm FR) (+) Wiesel-25 (20-mm GM) (+) Mobile Recon Post PRP-3/4 (7.62-mm RS) (*)
Armored Personnel Carrier BTR-60PB (14.5-mm RS) BTR-70 (14.5-mm RS) BTR-80 (14.5-mm RS) BTR-80A (30-mm RS)	OT-64C (14.5-mm CZ) PSZH-1V (14.5-mm HU) V-300 Commando (14.5-mm US) VAB (12.7-mm FR)	FMC AIFV (12.7/25-mm TU/BE) (+) Fuchs (20-mm GM) (+) WZ 551 (25-mm CH) (+) BTR-50 (12.7-mm RS) (-) BTR-152K (12.7-mm RS) (*) MT-LB (7.62-mm RS/BU) (*) M113 (7.62-mm US)(*)
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

Mortar Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
2B 14/Podnos (82-mm RS) M1937 (82-mm RS)	M29A1 (81-mm US)	MO-81-61L 81-mm FR) (+) M125Al/A2 (81-mm/M113 US) (*)
2B9 (82-mm Automatic RS)	None	2B9M (82-mm/MT-LB HU) (*)
Ml943 (120-mm RS) 2S12 (SP 120-mm/GAZ-66 RS)	Al Jaleel(l20-mm IZ)	M-74 (120-mm YO) (+) MO-120-RT-6 1 (120-mm FR) (+) 2B16 (120-mm Combo Gun RS) (*) 2S23 (120-mm SP Combo Gun/ BTR-80 RS) (*) B1.10.74 (SP 120-mm/MT-LB BU) (*)
2S4 (SP 240-mm RS)	None	M-240 (towed 240-mm RS) (-)
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

Towed Artillery Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
D-30 (122-mm RS)	BS-3 (100-mm RS) D-74 (122-mm RS) LG-1 (105-mm FR)	D-48 (85-mm RS) (-) M101 (105-mm US) (-) M1938/M-30 (122-mm RS) (-) M48 Tito Gun (76-mm YO) (-)
D-20 (152-mm RS)	Ml98 (155-mm US)	2A65 (152-mm RS) (+) D-l (152-mm RS) (-) M114 (155-mm US) (-) ML-20 (152-mm RS) (-)
2A36 (152-mm RS)	GH N-45 (155-mm AU/SZ) M46/84 (155-mm YO) Type 83 (152-mm CH)	2A65 (152-mm) (+) A-19 (122-mm RS) (-) M-46 (130-mm RS) (-)
2A65 (152-mm RS)	GH N-45 (155-mm AU/SZ)	2A36 (152-mm RS) (-) G5 (155-mm SF) (+)
KEY: (+) More capable. (-) Less capable.		

Self-Propelled Artillery Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
2S9 (120-mm RS)	None	2S23 (120-mm RS) (-)
2S1 (122-mm RS)	Abbot (105-mm UK) Type 85 (122-mm CH)	M1977 (122-mm KN) (-) Type 54-1 (122-mm CH) (-) 2S23 (120-mm SP Combo Gun/ BTR-80 RS) (*) 2S9 (120-mm SP Combo Gun/ BTR-D RS) (*)
2S3 (152-mm RS)	Dana (152-mm LO) M109A1/3 (155-mm US) Palmaria (155-mm IT)	2S19 (152-mm RS) (+) AS 90 (155-mm UK) (+) AU-F1 (155-mm FR) (+) Ml974 (152-mm KN) (-)
2S19 (152-mm RS)	None	2S3 (152-mm RS) (-) AS 90 (155mm UK) (-) M109A6 (155-mm US) (+)
2S5 (152-mm RS)	None	Catapult (130-mm IN) (-) G6 (155-mm SF) (+)
2S7 (203-mm RS)	None	M 110A2 (203-mm US) (-)
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

Multiple Rocket Launcher Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
BM-21 Grad (122-mm RS)	Astros II (127-mm BR) Firos (122-mm IT) M-77/0ganj (128-mm YO) SAKR RL-21 (122-mm EG)	RM-70 (122-mm CZ) (+) M51 (130-mm CZ) (-) Type 85 (130-mm CH) (-)
9P140/BM-22 Uragan (220-mm RS)	Astros II (180-mm BR) Ml985 (240-mm KN)	Ml991 (240-mm KN) (+) M-87/0rkan (262-mm YO) (+) BM-24 (240-mm RS) (-)
9A52-2 Smerch (300-mm RS)	MLRS M270 (270-mm US)	ASTROS II (300-mm BR) (-) WM-80 (273-mm CH) (-) WS-1 (320-mm CH) (-)
KEY: (+) More capable. (-) Less capable.		

Surface-to-Surface Missile Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
SS-21/SCARAB (RS)	B-610 (CH) Prithvi (IN)	FROG-7 (RS) (-) Nazeat (IR) (-)
SS-lc/SCUD B (RS)	M-l 1 (CH)	M-9 (CH) (+) SCUD C (KN) (+)
KEY: (+) More capable. (-) Less capable.		

Antitank Weapon Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
Disposable ATRL RPG-22 (72-mm RS) RPG-26 (72-mm RS)	AT-4 (84-mm SW) C90-C (90-mm SP) M72 LAW (66-mm US)	Hornet RBR (120-mm YO) (+) RPG-27 (105mm RS) (+) RPG-18 (64-mm RS) (-) RPO-A Flamethrower (100-mm RS) (*)
ATGL RPG-7V (40-mm RS) RPG-16D (58-mm RS)	Carl Gustaf M-2/M-3 (84-mm SW) Panzerfaust-3 (60-mm GM) Type 69 (40-mm CH)	RPG-29 (105mm RS) (+) RPG-2 (40-mm RS) (-) Folgore (80-mm IT) (*) Hornet-S (120-mm YO) (*) RPO Flamethrower (110-mm RS) (*)
Recoilless Gun SPG-9 (73-mm RS)	CAN-90L (90-mm BE) M-60A (82-mm YO) M79 (82-mm YO)	M40Al (106-mm US) (+) B-10(82-mm RS) (-) B-l 1 (107-mm RS) (-)
Antitank Gun MT-12 (100-mm RS)	M87/Topaz (100-mm YO)	2A45M (125-mm RS) (+) BS-3 (l00-mm RS) (-) SD-44 (85-mm RS) (-) ZIS-3 (76-mm RS) (-) ASU-85 (85-mm Assault Gun RS) (*) SU-100 (100-mm Assault Gun RS) (*)
Antitank Gun 2A45M (125-mm RS)	None	MT-12 (100-mm RS) (-) SP AT Gun (120-mm CH) (*)

KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.

(continued)

Antitank Weapon Substitution Matrix (continued)

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
ATGM Manpack AT-7/SAXHORN (RS)	Dragon (US)	AT-4/SPIGOT (RS) (+) AT- 13/Metis-2 (RS) (+) Milan (FR) (+) AT-3/Malyutka-2 (RS) (*) Eryx (FR) (*)
ATGM Manpack AT4/SPIGOT (RS)	HOT (FR) Red Arrow 8 (CH) TOW (US)	AT-14/Kornet(RS) (+) AT-S/SPANDREL (Ground/Vehicle-Launched RS) (*) RBS 56/BILL (SW) (*)
ATGM Vehicle 9P133 (BRDM-2 with AT-3/SAGGER)(RS)	VAB/Milan (FR)	M60PB AT (YO) (-)
ATGM Vehicle 9P148 (BRDM-2 with AT-5/SPANDREL) (RS)	M901/ITOW (US) Striker/Swingfire (UK) VCR/TH with HOT (FR)	Rooikat 35/ZT-3 (SF) (+) 9P137 (BRDM-2 with AT-2c/SWATTER C (RS) (-)
ATGM Vehicle 9P149 (MT-LB with AT-6/SPIRAL) (RS)	Rooikat 35/ZT-3 (SF)	M901/ITOW (US) (-) VCR/TH with HOT (FR) (-)
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

Antiaircraft Gun Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
ZU-23 (23-mm RS)	Type 80 (23-mm CH)	Type 85 (25-mm CH) (+) M1990 (30-mm KN) (+) Oerilkon GDF-005 (35-mm SZ) (+) Ml939 (37-mm RS) (+) Type 55 (37-mm CH) (+) Bofors L-70 (40-mm SW) (+) ZPU-2/ZPU-4 (14.5-mm RS) (-)
ZSU-23-4 (23-mm SP AA Gun RS)	Ml986 (37-mm CH) Ml992 (30-mm KN)	Gepard (35-mm GM) (+) Marksman (35-mm UK) (+)
S-60 (57-mm RS)	Type 59 (57-mm CH)	KS-12(85-mm RS) (+) KS-19 (100-mm RS) (+) Type 80 (57-mm SP AA Gun CH) (*) ZSU-57-2 (57-mm SP AA Gun RS) (*)
Combination SP AA Gun/SAM System 2S6 (30-mm RS) with 4 x SA-19/GRISON SAM	None	Skyshield 35 (35-mm SZ) (*) ' with 8 x ADATS SAM
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

' The Skyshield 35 system is not self-propelled.

Surface-to-Air Missile Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
First-Generation Shoulder-Fired SAM SA-7/GRAIL (RS)	Blowpipe (UK) HN-5 (CH) Redeye (US) SAKR-Eye (EG)	(See Second- and Third-Generation Shoulder-Fired SAM, below) (+)
Second- and Third-Generation Shoulder-Fired SAM SA-14/GREMLIN (RS) SA-16/GIMLET (RS) SA-18/GROUSE (RS)	Mistral (FR) RBS-70 (SW) Stinger RMP (US) Vanguard (CH)	(See First-Generation Shoulder-Fired SAM, above) (-) RBS 90 (SW) (+) Starburst (UK) (+)
SA-13/GOPHER (RS)	Chaparral (US)	ADATS (SZ) (+) Rapier 2000 (UK) (+) SA-9/GASKIN (RS) (-)
SA-15/GAUNTLET (RS)	Crotale (FR)	SA-6/GAINFUL (RS) (-) SA-8/GECKO (RS) (-)
SA-6/GAINFUL (RS)	RF-61A (CH)	Roland III (FR) (+) SA- 15/GAUNTLET (RS) (+) SA-8/GECKO (RS) (+)
SA-8/GECKO (RS)	Roland II (FR)	Roland III (FR) (+) SA-I5/GAUNTLET (RS) (+) SA-6/GAINFUL (RS) (-)
KEY: (+) More capable. (-) Less capable.		

(continued)

Surface-to-Air Missile Substitution Matrix (continued)

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
SA-2/GUIDELINE (RS) SA-3/GOA (RS)	HQ-1 (CH) HQ-2 (CH)	SA-S/GAMMON (RS) (+) SA-lOc/GRUMBLE (RS) (+)
SA-4/GANEF (RS)	None	SA-1 l/GADFLY (RS) (+) SA-12a/GLADIATOR (RS) (+) SA-12b/GIANT (RS) (+)
SA-1l/GADFLY (RS)	None	Crotale NG (FR) (-)
SA-12a/GLADIATOR (RS) SA-12b/GIANT (RS)	None	Patriot PAC 2 (US) (+) SA-4/GANEF (RS) (-)
KEY: (+) More capable. (-) Less capable.		

Attack Helicopter Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
Mi-24 (Mi-35)/HIND E/F (RS)	AH-1 Cobra (US) AH-64 Apache (US)	AH-64A Apache (US)(+)
Ka-50/HOKUM (RS)	AH-64A Apache (US)	None
KEY: (+) More capable.		

Appendix B
Engineer Equipment Substitution Matrices

The matrices in this appendix illustrate some of the different equipment options available to scenario and order of battle developers. In most cases, this organization guide provides a baseline of widely used systems produced in the former Soviet Union (FSU) that are available in militarily significant numbers. However, there may be cases in which an FSU-developed system not yet produced in large numbers still can reflect a particular level of capability that it has in common with similar systems available on the world market. The intent of the capabilities-based OPFOR is to allow users to tailor their orders of battle by substituting other worldwide systems. Deviations from the baseline systems should relate to specific training objectives. For example, users may desire to mirror the actual mix of equipment found in a particular region or to introduce a particular capability or vulnerability.

The matrices list most of the major baseline engineer systems in the organization guide and provide a number of potential substitutes for each. While the lists of ***potential substitutes*** are not all-inclusive, they contain most common systems that have roughly ***comparable*** capabilities. They also contain some ***alternative*** systems that may perform the same missions (with greater or lesser capability) or have different capabilities for special uses. Entries include the system name and the digraph for country of origin. Entries within the alternative category also include one of the following symbols identifying each system's capabilities in relation to the baseline: more capable (+), less capable (-), or different capabilities for special uses (*).

Users substituting systems from the matrices or considering other foreign weapons systems for use in an OPFOR order of battle should evaluate candidate substitutes against the same basic criteria as in Appendix A.

Ferry and Amphibious Transporter Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
GSP Ferry (RS)	None	2TFR (IS) (+) BAC Automone 40/60 (FR) (+) M-2/M-3 (GM) (+) PFM (FR) (+) PMM-2 (RS) (+) Type-70 (JA) (+) Mobile Assault Bridge (US) (-)
PTS Tracked Amphibian (RS)	PTS-M (RS) PTS-2 (RS)	BAV 485 (RS) (-) K-61 (RS) (-) LARC (US) (-)
KEY: (+) More capable. (-) Less capable.'		

' The greatest discriminator in capability is whether the system could be autonomous or requires assembly with other sections.

Bridging Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	**Alternative**
TMM Truck-Launched Bridge (RS)	AM-50 (LO) GQL-1 10/Type-84 (CH) Truck-Mounted Scissors Treadway Bridge (YO)	Bundeswehr (FSB) (+) Type-81 (JA) (+) KMM CRS) (-) SMT-1 (PL) (-) Type 69 (CH) (-)
MTU-20 Tank-Launched Bridge (RS)	BLG-60 (GM) Biber Bridgelayer (GM) M48/AVLB (US) MT-55 (CZ) Type-67 (JA) Type 84 (CH) Yugoslav Tank-Launched Bridge (YO)	AMX-30/13 (FR) (+) BLP-72 (GM) (+) Chieftain AVLB (UK) (+) MTU-72 (RS) (+) Pz-68 (SZ) (+)
KEY: (+) More capable. (-) Less capable. '		

' The main discriminator in capability is the chassis. More modern, faster-moving, more heavily armored chassis improve mobility and survivability factors. However, bridge specifications are all similar.

Bridging Substitution Matrix (continued)

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
PMP Heavy Folding Pontoon Bridge (RS)	DAF YGZ 2300 (NL) Folding Float Bridge (GM) M-71 (YO) PFM (FR) PP-64 (PL) PR-60 (RO) Ribbon Bridge (US) Type 74 (CH) Type 79 (CH)	None (All have fairly similar capabilities.) [1]

[1] The main discriminator in capability is the chassis. More modern, faster-moving, more heavily armored chassis improve mobility and survivability factors. However, bridge specifications are all similar.

Ditching and Trenching Machine Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
MDK/MDK-2M/MDK-3M Ditcher (RS)	M1987 (CH)	None
BMT/BMT-3/BMT-4 Trencher (RS)	M 1984 (CH)	Case & John Deer Backhoe/Loader (US) (-) ' Matenin Trencher (FR) (-) " Model 260 (CH) (-) " PZM (RS) (-) " SEE (US) (-) " TMK (RS) (-) " Type 74 (CH) (-) "
KEY: (+) More cpable. (-) Less capable.		

' Unlike the other systems, the Case and John Deer systems do not have a rotary trencher but can still use a bucket or backhoe to make a trench, achieving the same results.

" For trenchers, the greatest discriminator in capability is chassis mobility. Only the BTM series and the M 1984 are tracked. The rest are all wheeled, which degrades mobility.

Minelaying Equipment Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
PMR-3 Towed Minelaying Trailer (RS)	Barmine Minelayer (UK) FFV-5821 (SW) M-57 ATMDS (US) MLG-69 (GM) PZM4 (RS) ST-AT/V (IT) Type 73/GBL- 120 (CH) Type-83 (JA) Yugoslav Towed Minelayer (YO)	Ml985 (CH) (+) ' PM-16 (FR) (+) ' PMR-2 (RS) (-) '
GMZ Armored Tracked Minelaying Vehicle (RS)	Ml989 (CH) Ml991 (YO) MV-90 (CZ)	PM-l 1 (FR) (-) " VZ-92 (CZ) (*) "
UMZ Mine-Scattering Vehicle (RS)	Istrice (IT) SAKR Mine-Dispensing System (EG) Volcano (US)	Ml993 (CH) (+) Minotaur (FR) (+) Skorpion (GM) (+) Spartan (UK) (+) GEMSS (US) (-) VZ-92 (CZ) (*)
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

' For towed minelayers, the main discriminator in capability is the ability to feed mines automatically, rather than manually.

" For self-propelled systems, the main discriminators are mobility and survivability.

Mineclearing Equipment Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
DIM Vehicle-Mounted Mine Detection System (RS)	ML-1621 (GM) ML-1750 (GM)	MDV (SF) (*) Road Runner Detection System (SF) (*) VMMD (SF) (*)
MTK/MTK-2 Explosive Mineclearing Vehicle (RS)	AVLM (US) MICLIC (US) Type 762/GSL-111 (CH)	Giant Viper (UK) (-) SAKR Mineclearing System (EG) (-) LWD Line Charge Attachment for Vehicles (PL) (*) ' Plofadder Line Charge Attachment for Vehicles (SF) (*) ' M1987 MRL (CH) (*) " SVO (LO) (*) " Type 81 MRL (CH) (*) " Type 84 (CH) (*) '
KEY: (-) Less capable. (*) Different capabilities for special uses.		

(continued)

' The LWD, Plofadder, and Type 84 are not actually mineclearing vehicles. Rather, they are attachments to mount on any designated vehicles, such as tanks.

" Unlike the MTK and MTK-2, the M1987, SVO, and Type 81 do not use line charges. Rather, they dispense multiple explosive rockets into the minefield.

Mineclearing Equipment Substitution Matrix (continued)

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
KMT-4/KMT-6 Tank-Mounted Mineclearing Plow (RS)	EMP (UK) Ml982 (CH) SADF Mine Plow (SF) TWMP Track-Width Mine Plow (IS)	None (All have similar capabilities.)
KMT-5/KMT-7 Track-Width Mine Roller-Plow (RS)	D-5M (RO) Minvalt-1 (SW) PT-54/PT-55 (RS) RKM Mine Rollers (IS) SADF Mine Roller (SF) TWMP & Roller (US)	None (All have similar capabilities.)

Armored Engineer Vehicle Substitution Matrix

Baseline Systems	Potential Substitutes	
	Comparable	Alternative
IMR Armored Engineer Vehicle (RS)	IMR-2 (RS) IWT (PL) Steyr Pionierpanzer (AU)	Grizzly (Developmental US) (+) CET (UK) (-) CEV (US) (-) Type-67 (JA) (-) AMX-30 Combat Engineer Tractor (FR) (*) ' Pionierpanzer-2 Dachs (GM) (*) ' Leopard- 1 Armored Engineer Vehicle (GM) (*) '
BAT/BAT-M Route-Clearing Vehicle (RS)	None	BAT-2 (RS) (+) ' BKT (RS) (-) " D-7/D-9 Dozer (US) (-) " M-9 ACE (US) (-) " PKT (RS) (-) " Type-75 (JA) (-) '
IRM Engineer Reconnaissance Vehicle (RS)	IPR (RS)	SEV/M-113 (CA) (-) TRI/MT-LB (PL) (-)
KEY: (+) More capable. (-) Less capable. (*) Different capabilities for special uses.		

' The armored engineer vehicles for special uses (*) include specialty equipment such as augers and mine dispensers.

" The BAT-2 can also carry a combat engineer squad. The BKT and PKT are wheeled vehicles with little armor. The D-9, D-7, M-9 ACE, and Type-75 have no crane and are slow-moving.

Appendix C
Cargo Truck, Trailer, and Radio Substitution

This manual uses generic descriptors to indicate truck and trailer capacity and radio capabilities. The following list, based on equipment produced in the former Soviet Union, provides a definition of terms and examples of equipment types in each generic category. However, users may substitute any comparable piece of equipment that falls within the range of capabilities for each system.

Trucks

Type	Drive	Load Capacity	Examples
Truck, Utility	4 x 4	500 to 600 kg	GAZ-69 (RS) IMR A-0.75 (YO) Land Rover Defender 130 (UK) UAZ-469 (RS)
Truck, Light	4 x 4	1 to 2.5 mt	GAZ-66 (RS) GAZ-3301 (RS) Renault TRM 2000 (FR) TAM 110 T7 BV (YO)
Truck, Medium	6 x 6	2.5 to 7 mt	Ural-375D (RS) ZIL-131 (RS) ZIL-157K (RS)
Truck, Heavy	6 x 6	7.5 mt or greater	AWD Bedford TM (UK) IVECO Magirus 160-23 ANWM (GM) KrAZ-255B (RS) KrAZ-260 (RS)

Trailers

Type	Load Capacity	Examples	Towed By
Trailer, Cargo, l-Axle	0.5 mt	GAZ-704 (RS)	UAZ-3151 (RS)
		UAZ-8109 (RS)	UAZ-469 (RS)
		GKN Defence 750-kg (UK)	
	1.5 mt	TAPZ-755 (RS)	GAZ-66 (RS)
		M104 Series (US)	
Trailer, Cargo, 2-Axle	2.5 to 4.0 mt	GAZ-710 (RS)	ZIL-131 (RS)
		IAPZ-754V (RS)	Ural-375D (RS)
		782V (RS)	Ural-4320 (RS)
	up to 6.8 mt	MAZ-5243 (RS)	KrAZ-255B (RS) MAZ-500 (RS)
Trailer, Heavy Equipment Transporter	50 to 52 mt	ChMZAP-5247G (RS) ChMZAP-9990 (RS)	MAZ-537 (RS) MAZ-537 (RS)

Radios

Type	Example	Power Output	Frequency	Range
VHF, Manpack Low-Power	R-107 (RS)	1 W	20 to 52 MHz	6 to 25 km**
	R-159M (RS)	4.5 W	30 to 75.999 MHz	10-50 km**
VHF, Portable, Low-Power	R-148 (RS)	1.1 to 2.1 W	37 to 51.95 MHz	5 km**
VHF, Portable, Very-Low-Power	R-126 (RS)	0.5 W	48.5 to 51.5 MHz	1 to 4 km**
VHF, Vehicle Mount, Medium-Power	R-123M (RS)	20 W	20 to 51.5 MHz	20 to 70 km**
	R-173 (RS)	30 W	30 to 75.999 MHz	20 to 70 km**
HF, Manpack , Low-Power	R-104M (RS)	1 to 3.5 W	1.5 to 4.25 MHz	20 to 50 km****
HF, Vehicle Mount, Medium-Power	R- 130 M (RS)	10 to 40 W	1.5 to 10.99 MHz	50 to 75 km*****
HF, Vehicle Mount, High-Power	R- 118 (RS)*	100 to250 W (voice) 400W (teletype)	1.5 to 12 MHz	up to 100 km (voice) up to 600 km (teletype)
HF/VHF Vehicle Mount, High-Power	R-161 (RS)*	1 kW	1.5 to 29.999 MHz, 30 to 59.999 MHz	75 to 300 km (on move), 80 to 2,000 km (stationary)
Warning Receiver, HF	R-311 (RS)	Not Applicable	1 to 15 MHz	Not Applicable

* The R-118 and R-161 radio sets are normally part of a radio station that shares the same alpha-numeric designator, usually with a suffix. The station typically includes other radio sets with different capabilities.

** For the R-107, range is 6 km with 1.5-m whip antenna; 15 km with combined rod or long wire antenna; 25 km with raised long wire antenna. For the R-159M, range with the same antenna types is 10 km, 25 km, and 50 km, respectively.

*** Range is 20 km while on the move; 40 to 70 km while stationary with telescoping antenna.

**** Range is 20 to 30 km with whip antenna; 30 to 50 km with long wire antenna.

***** Range is 50 km with 4-meter whip antenna: 75 km with 10-m whip antenna or sloping wire antenna; up to 350 km with symmetrical dipole antenna.

(continued)

Radios (continued)

Type	Example*	Power Output	Frequency	Range
Radio Relay, VHF	R-401 (RS) R-403 (RS)	2.5 to 25 W	60 to 69.975 MHz	40 to 50 km (per hop LOS)
Radio Relay,VHF/UHF	R-405 (RS)	2.5 TO 15 W	60 TO 69.975 MHZ, 390 to 420MHz	40 TO 50 KM (per hop LOS)
Radio Relay, VHF/UHF	R-415 (RS)	R to 10 W	80 to 120 MHz, 390-430 MHz	30 to 40 km (per hop LOS)
Radio Relay, UHF	R-419	6 to 10 W	160 to 240 MHz, 240 to 320 MHz, 320 to 480 MHz, 480 to 645 MHz	40 km (per hop LOS)
Radio Relay, UHF	R-404 (RS) R-414 (RS)***	10 W	1,550 to 2,000 MHz (1,550 to 2.000 GHz)	40 to 50 km (per hop LOS)
Troposcatter Radio Relay, SHF	R-412AM(RS)	1 kW	4.435 to 4.555 GHz, 4.630 to 4.750 GHz	150 to200 km (per hop)
Troposcatter RadioRelay, SHF	R-423-1(RS)	1.5 kW	4.435 to 4.555 GHz, 4.630 to 4.750 GHz	90 to 230 km (per hop)****
Troposcatter Radio Relay,SHF	R-423-2A (RS)	220 W	4.435 to 4.555 GHz, 4.630 to 4.750 GHz	90 to 230 km (per hop)*****

* Each of the radio relay sets listed is normally part of a radio relay station that shares the same alpha-numeric designator, usually with a suffix. The station typically includes other radio sets with different capabilities for other than radio relay purposes.

** The R-415-3A radio relay station includes two R-415NV VHF/UHF radio relay sets (each covering 80 to 120 MHz and 390 to 430 MHz) and one R-415V UHF radio relay set (390 to 430 MHz). However, the R-415-3A2 radio relay station includes only the two R-415NV sets.

*** The R-414-3 radio relay station includes the R-45N VHF radio relay set (80 to 120 MHz).

**** Maximim 2,000 km with retransmissions.

***** Maximum 450 km with retransmissions.

Radios (continued)

Type	Example*	Power Output	Frequency	Range
Radio Relay, VHF	R-401 (RS) R-403 (RS)	2.5 to 25 W	60 to 69.975 MHz	40 to 50 km (per hop LOS)
Radio Relay,VHF/UHF	R-405 (RS)	2.5 TO 15 W	60 TO 69.975 MHZ, 390 to 420MHz	40 TO 50 KM (per hop LOS)
Radio Relay, VHF/UHF	R-415 (RS)	R to 10 W	80 to 120 MHz, 390-430 MHz	30 to 40 km (per hop LOS)
Radio Relay, UHF	R-419	6 to 10 W	160 to 240 MHz, 240 to 320 MHz, 320 to 480 MHz, 480 to 645 MHz	40 km (per hop LOS)
Radio Relay, UHF	R-404 (RS) R-414 (RS)***	10 W	1,550 to 2,000 MHz (1,550 to 2.000 GHz)	40 to 50 km (per hop LOS)
Troposcatter Radio Relay, SHF	R-412AM(RS)	1 kW	4.435 to 4.555 GHz, 4.630 to 4.750 GHz	150 to200 km (per hop)
Troposcatter RadioRelay, SHF	R-423-1(RS)	1.5 kW	4.435 to 4.555 GHz, 4.630 to 4.750 GHz	90 to 230 km (per hop)****
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* * * The R-414-3 radio relay station includes the R-415N VHF radio relay set (80 to 120 MHz).

** * * Maximim 2,000 km with retransmissions.

* * * * * Maximum 450 km with retransmissions.

Glossary

AA - antiaircraft
abn - airborne
acq - acquisition
ACRV - artillery command and reconnaissance vehicle
ACV - armored command vehicle
admin - administration or administrative
aer surv - aerial surveillance
AGL - automatic grenade launcher
ammo - ammunition
amphib - amphibian or amphibious
APC - armored personnel carrier
ARNG - (U.S.) Army National Guard
arty - artillery
ASC - armored scout car
asst - assistant
AT - antitank
ATGL -antitank grenade launcher
ATGM - antitank guided missile
ATRL - antitank rocket launcher
ATTN - attention
AU - Austria
auto - automatic
avn - aviation

bde - brigade
BE - Belgium
bn - battalion
BR - Brazil
btry - battery
BU - Bulgaria

CA - Canada
cdr - commander
CH - China
chem - chemical
CM/CB - countermortar/counterbattery
co - company
combo - combination
const - construction
COP - command observation post
CP - command post
CS - combat support
CSS - combat service support
CZ - (former) Czechslovakia

DA - Department of the Army
decon - decontamination
def - defense
DF - direction-finding
disinfect - disinfection
div - division or divisional

EC - electronic combat
EG - Egypt
eng - engagement
engr - engineer
EW - early warning

FAC - forward air controller
FDC - fire direction center
FM - frequency modulation or field manual
FO - forward observer
FR - France
FSU - former Soviet Union

GCI - ground-controlled intercept
GHz - gigahertz
GM - Germany
GP - general-purpose
GP MG - general purpose machinegun
GPS - global positioning system
gun-how - gun-howitzer

HET - heavy equipment transporter
HF - high-frequency
how - howitzer
HQ - headquarters
HU - Hungary

IFV - infantry fighting vehicle
IN - India
inf - infantry
IOC - initial operational capability
IR - Iran
IS - Israel
IT - Italy
IZ - Iraq

JA - Japan

kg - kilogram
km - kilometer
KN - North Korea
KS - South Korea or Kansas
kW - kilowatt

1 - **liter**
lchr - launcher
LGP - laser-guided projectile
LMG - light machinegun
LO - Slovakia
LOS - line-of-sight

m - meter
maint - maintenance
mat spt - materiel support
mech - mechanized
med - medical
MG - machinegun
MHz - megahertz
MIBN - mechanized infantry battalion
MIBR - mechanized infantry brigade
MIC - mechanized infantry company
MID - mechanized infantry division
MIP - mechanized infantry platoon
mm - millimeter
MRL - multiple rocket launcher
mt - metric ton
mtzd - motorized

NBC - nuclear, biological, and chemical
NBDF - nuclear burst direction-finding
NCO - noncommissioned officer
NL - Netherlands

OPFOR - Opposing Force
ord - ordnance

P - page
photorecon - photographic-reconnaissance
PL - Poland
plt - platoon
POL - petroleum, oil, and lubricants
PP - pages

recon - reconnaissance
recon & EC - reconnaissance and electronic combat
regt - regiment
RO - Romania
RPV - remotely-piloted vehicle
RS - Russia
RT & T - radio telephone and telegraph

SAM - surface-to-air missile
SATCOM - satellite communications
sep - separate
SF - South Africa
SHF - super-high-frequency
SP - self-propelled or Spain
SP AA - self-propelled antiaircraft [gun]
SPF - special-purpose forces
spt - support
sqdn - squadron
SSM - surface-to-surface missile
STANAG - standardization agreement
surv - surveillance
svc - service
SW - Sweden
SZ - Switzerland

TBN - tank battalion
TBR - tank brigade
TD - tank division
tech - technical
TEL - transporter-erector-launcher
TELAR - transporter-erector-launcher and radar
tgt - target

tgt acq - target acquisition
topo - topographical
TRADOC - (U.S. Army) Training and Doctrine Command
TU - Turkey

UAV - unmanned aerial vehicle
UHF - ultrahigh-frequency
UK - United Kingdom
UP - Ukraine
U.S./US - United States
USAR - United States Army Reserve

veh - vehicle
VHF - very-high-frequency

W - watt
WO - warrant officer
wpn - weapon(s)

YO - (former) Yugoslavia

References

REQUIRED PUBLICATIONS

These required publications are sources that users must read in order to understand this publication fully.

Field Manuals

FM 100-61, ***Armor- and Mechanized-Based Opposing Force: Operational Art.***
(To be published.)

FM 100-62, ***Armor- and Mechanized-Based Opposing Force: Tactics.***
(To be published.)

FM 100-63, ***Infantry-Based Opposing Force: Organization Guide.***
18 April 1996.

FM 100-64, ***Infantry-Based Opposing Force: Operations and Tactics.***
(To be published.)

FM 100-65, ***Capabilities-Based Opposing Force: Worldwide Equipment Guide.***
(To be published.)

FM 100-66, ***Opposing Forces in Stability and Support Operations.***
(To be published.)

Index

Page numbers in ***bold type*** indicate the main entry for a particular unit; this page usually includes an organization chart and list of principal items of equipment for the indexed unit. Other page numbers indicate organizations in which the indexed unit is subordinate or appears in a footnote. For other key terms, the page number referenced in bold type often includes a definition of the indexed term.

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