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WAR DEPARTMENT TECHNICAL MANUAL

CONNECTING AND SWITCHING KIT MX-155/GT

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CONNECTING AND SWITCHING KIT MX-155/GT

WAR DEPARTMENT *8 SEPTEMBER 1944*

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WAR DEPARTMENT,
WASHINGTON 25, D. C., 8 SEPTEMBER 1944.

TM 11-2546, Connecting and Switching Kit MX-155/GT, is published for the information and guidance of all concerned.

[A. G. 300.7 (8 Aug 44).]

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:
J. A. ULIO,
Major General,
The Adjutant General.

DISTRIBUTION:

IBn 6(2); IC 6,11(5).

(For explanation of symbols see FM 21-6.)

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DESTRUCTION NOTICE

WHY —To prevent the enemy from using or salvaging this equipment for his benefit.

WHEN —When ordered by your commander.

HOW —1. Smash—Use sledges, axes, handaxes, pickaxes, hammers, crowbars, heavy tools.

2. Cut—Use axes, handaxes, machetes.

3. Burn—Use gasoline, kerosene, oil, flame throwers, incendiary grenades.

4. Explosives—Use firearms, grenades, TNT.

5. Disposal—Bury in slit trenches, fox holes, other holes. Throw in streams. Scatter.

USE ANYTHING IMMEDIATELY AVAILABLE FOR DESTRUCTION OF THIS EQUIPMENT.

WHAT —1. Smash—Jacks, jack panel, reel brackets, and reels.

2. Cut—Wires and cords.

3. Burn—Cords, jack panel, and technical manual.

4. Bend—Reel brackets and reels.

5. Bury or scatter—All debris in ground or streams, or other bodies of water.

DESTROY EVERYTHING

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SECTION I

DESCRIPTION

1. GENERAL (fig. 1).

Connecting and Switching Kit MX-155/GT provides a quick and convenient means for establishing individual or conference telephone circuits among the battery executive officer, the battery assistant executive officer, and the six gun sections of an armored field artillery

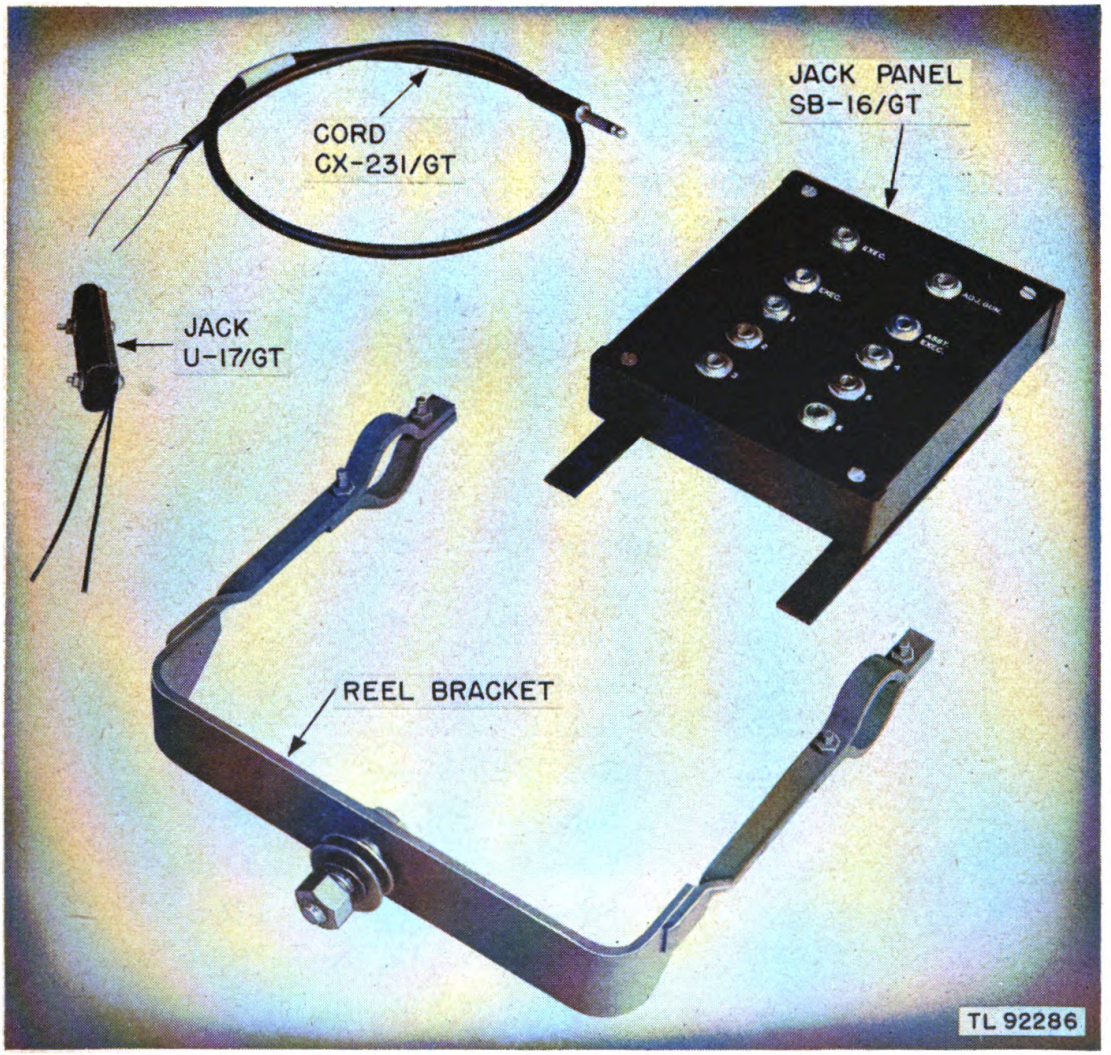


Figure 1. Components of Connecting and Switching Kit MX-155/GT.

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battery, when used with telephone, reel, and line wire equipment already issued to such batteries. It also provides means for communication between the battery executive officer and the executive officer of an adjacent gun battery. The kit is intended to equip a battery of 6 Carriages, motor, 105-mm howitzer, M7 (one for each gun section), and 2 Carriers, personnel, half-tracks M3A1 (one for the assistant executive officer and the other for the executive officer). It is convenient to assemble and consists of a sufficient quantity of cordage, plugs, jacks, a jack panel, and metal reel brackets for modifying and supporting reel equipment already issued. Connecting and Switching Kit MX-155/GT is used in conjunction with the following equipment already issued to the battery:

a. Telephones EE-8-( ).

b. Head and Chest Sets HS-19 or equal.

c. Reels RL-39-( ).

d. ¼-mile lengths of Wire W-130.

2. LIST OF COMPONENTS OF CONNECTING AND SWITCHING KIT MX-155/GT.

Quantity	*Name of part*
15	Cords CX–231/GT.
7	Jacks U–17/GT.
1	Jack Panel SB–16/GT.
7	Reel brackets.
1 set	Spare parts as follows:
3	Bolts, ½".
3	Cords CX–231/GT.
3	Jacks JK–34–A.
2	Jacks U–17/GT.
3	Nuts, hex., std, for ½-inch bolt.
12	Nuts, hex., std, for No. 10 screw.
12	Screws, machine, roundhead, 10-32 x ¾".
12	Screws, machine, flathead, 8-32 x ¼".
3	Lockwashers SAE, reg, for ½" bolt.
12	Lockwashers SAE, reg, for No. 10 screw.
3	Bushings, for ½" bolt.
9	Washers, std, for ½" bolt.

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3. CORD CX-231/GT.

Cord CX-231/GT consists of 36 inches of 2-conductor Cordage CO-144 terminating at one end in Plug PL-55 for connection to Jack U-17/GT or Jack Panel SB-16/GT, and bared 3 inches at the other end for connection to field wire.

4. JACK U-17/GT.

Jack U-17/GT is a double jack used to engage two Plugs PL-55. The jack mounts on Spool DR-8-( ) of Reel RL-39-( ) and, through the hook-up wire soldered to it, connects the jack with the binding posts on Spool DR-8-( ).

5. JACK PANEL SB-16/GT (fig. 2).

Jack Panel SB-16/GT is a metal panel with two brackets welded to the panel box for convenient attachment to a side wall or rear door of the executive officer's half-track without the use of tools. Ten Jacks JK-34-A are mounted in two rows of five each on the front of the panel. They are arranged and marked as shown in figure 2.

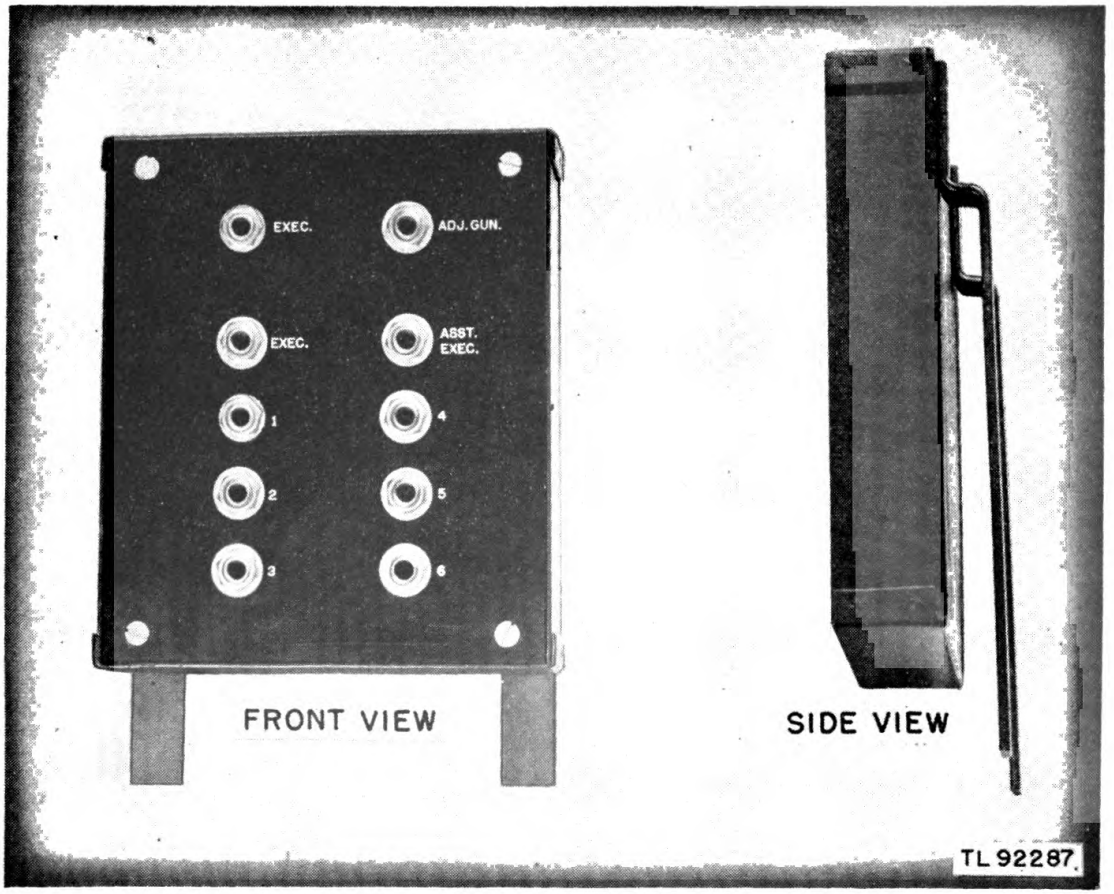


Figure 2. Jack Panel SB–16/GT.

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6. REEL BRACKET.

The reel bracket provides a means of mounting Reel RL-39-( ) to either the howitzer motor carriage or the assistant executive officer's half-track. It consists of a steel frame, clamps, and bolt. The reel bearing assemblies fit into the holes formed by the clamps and the frame. The bolt mounts the reel bracket to the carrier. The reel bracket provides a swivel mounting for the reel spool, permitting field wire to be drawn out freely in any direction.

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SECTION II

INSTALLATION AND OPERATION

7. GENERAL.

The purpose of Connecting and Switching Kit MX-155/GT is described in paragraph 1. To use Connecting and Switching Kit MX-155/GT, Reel RL-39-( ) must be modified to accept Jack U-17/GT and to be mounted on the reel bracket. The reel bracket with the modified reel attached must be mounted to the howitzer motor carriage or the assistant executive officer's half-track. Provision then must be made for connecting the gun section commander, the assistant executive officer, and the adjacent battery executive officer with the battery executive officer.

8. PARTS OF REEL RL-39-( ) REQUIRED (fig. 3).

a. Spool DR-8-( ).

b. Cotter pin.

c. Axle and handle.

d. Bearing assemblies (consisting of bearings and bearing bushings).

e. Connector M-221.

9. DISASSEMBLY OF REEL RL-39-( ) FOR MODIFICATION.

a. Remove cotter pin.

b. Remove axle from drum of Spool DR-8-( ).

c. Bearing assemblies and handle assembly will drop off.

d. Remove retaining disk on bearing assembly by removing four flathead machine screws from inner side of bearing bushing.

e. Remove handle assembly.

f. Replace retaining disk on bearing bushing and reassemble the bearing assemblies.

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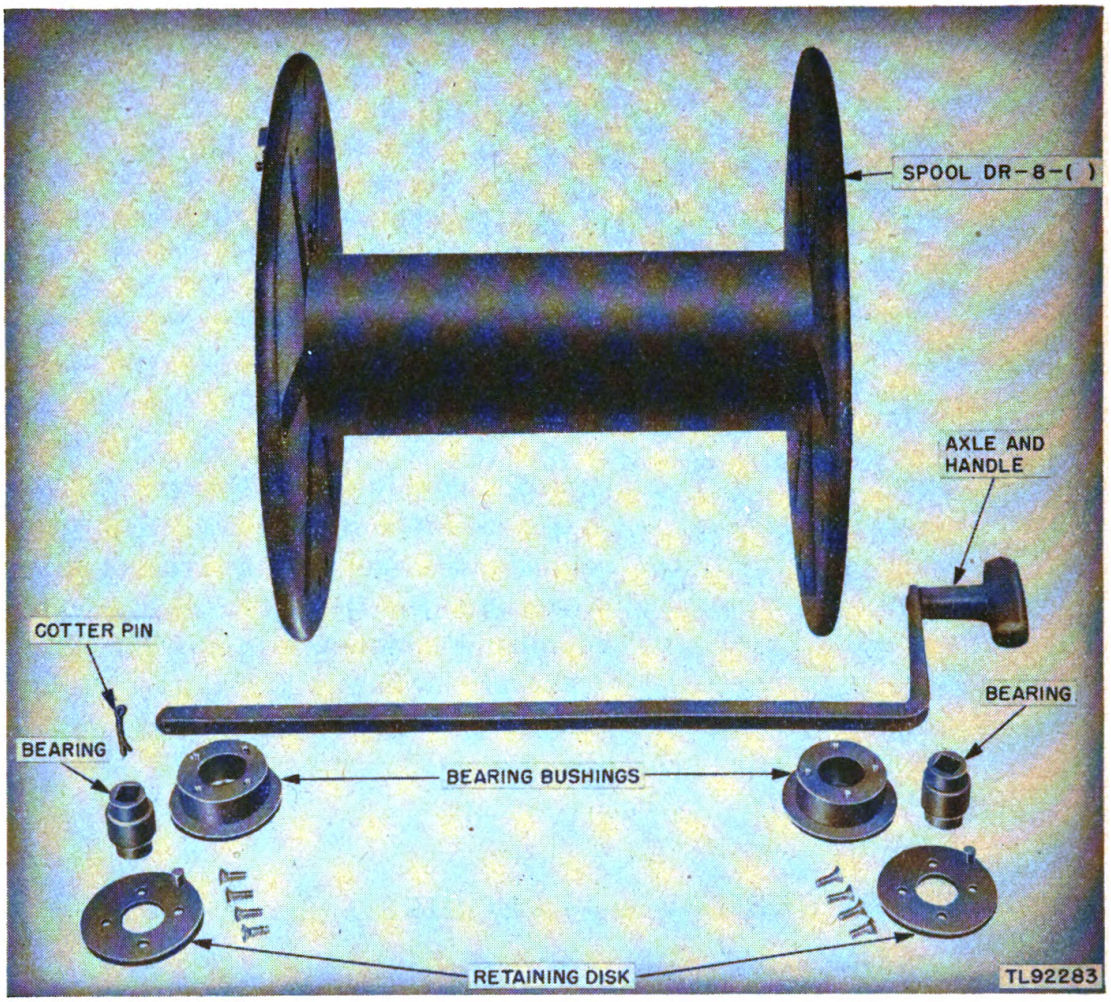


Figure 3. Parts of Reel RL-39-( ) required.

10. MOUNTING JACK U-17/GT ON SPOOL DR-8-( ).

a. Using a No. 24 drill, drill two holes on Spool DR-8-( ) in positions shown in figure 4.

b. Cut off portion of spool flange as indicated in figure 4.

c. Place two screws furnished with Jack U-17/GT into holes drilled in side of spool. The screw heads must be on the inner side of the spool.

d. Mount Jack U-17/GT on the two screws keeping the jack holes on the top.

e. Place lockwashers and nuts on end of screws and tighten.

f. Connect leads from Jack U-17/GT to binding posts on Connector M-221.

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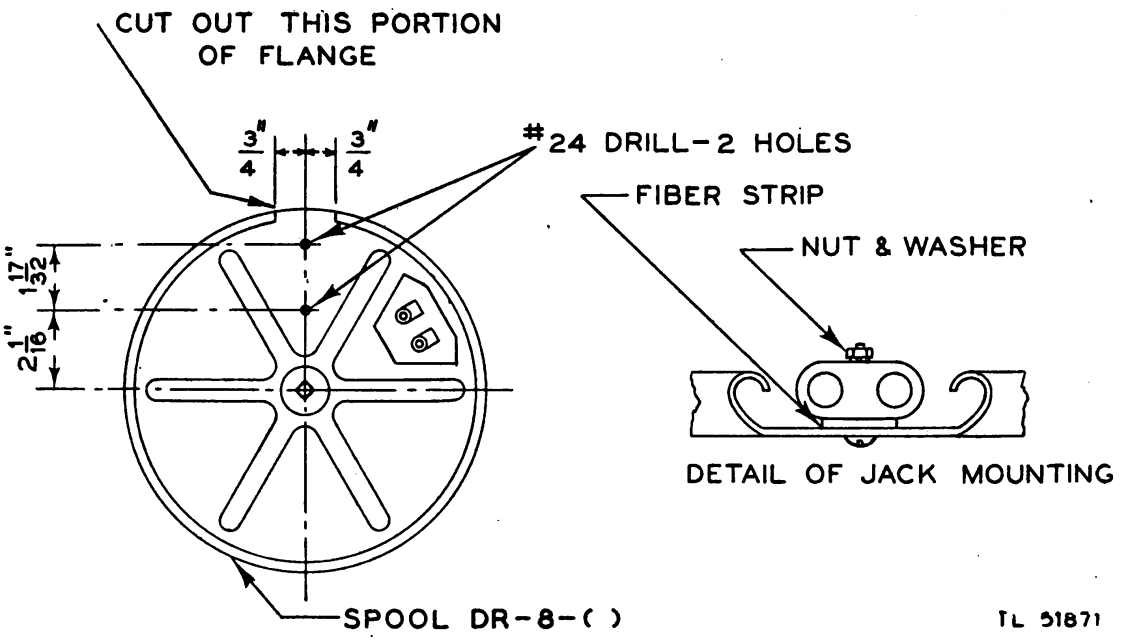


Figure 4. Details of mounting Jack U-17/GT on Spool DR-8-( ).

11. MOUNTING MODIFIED REEL RL-39-( ) ON REEL BRACKET (figs. 5 and 6).

a. Clamp the bearing assemblies of Reel RL-39-( ) in the clamp arms of the reel bracket.

b. Line up the holes in the reel drum with the holes in the bearing assemblies and push the axle through the drum.

c. Secure the axle by putting cotter pin through the hole in the axle end.

12. MOUNTING REEL BRACKET TO HOWITZER MOTOR CARRIAGE OR HALF-TRACK.

a. Using a 17/32-inch drill, drill a hole in the vehicle in the position indicated in figures 7 and 8.

b. Place the hole in the base of the reel bracket over the hole drilled in the vehicle.

c. Bolt the reel bracket to the vehicle as shown in detail in figures 7 and 8.

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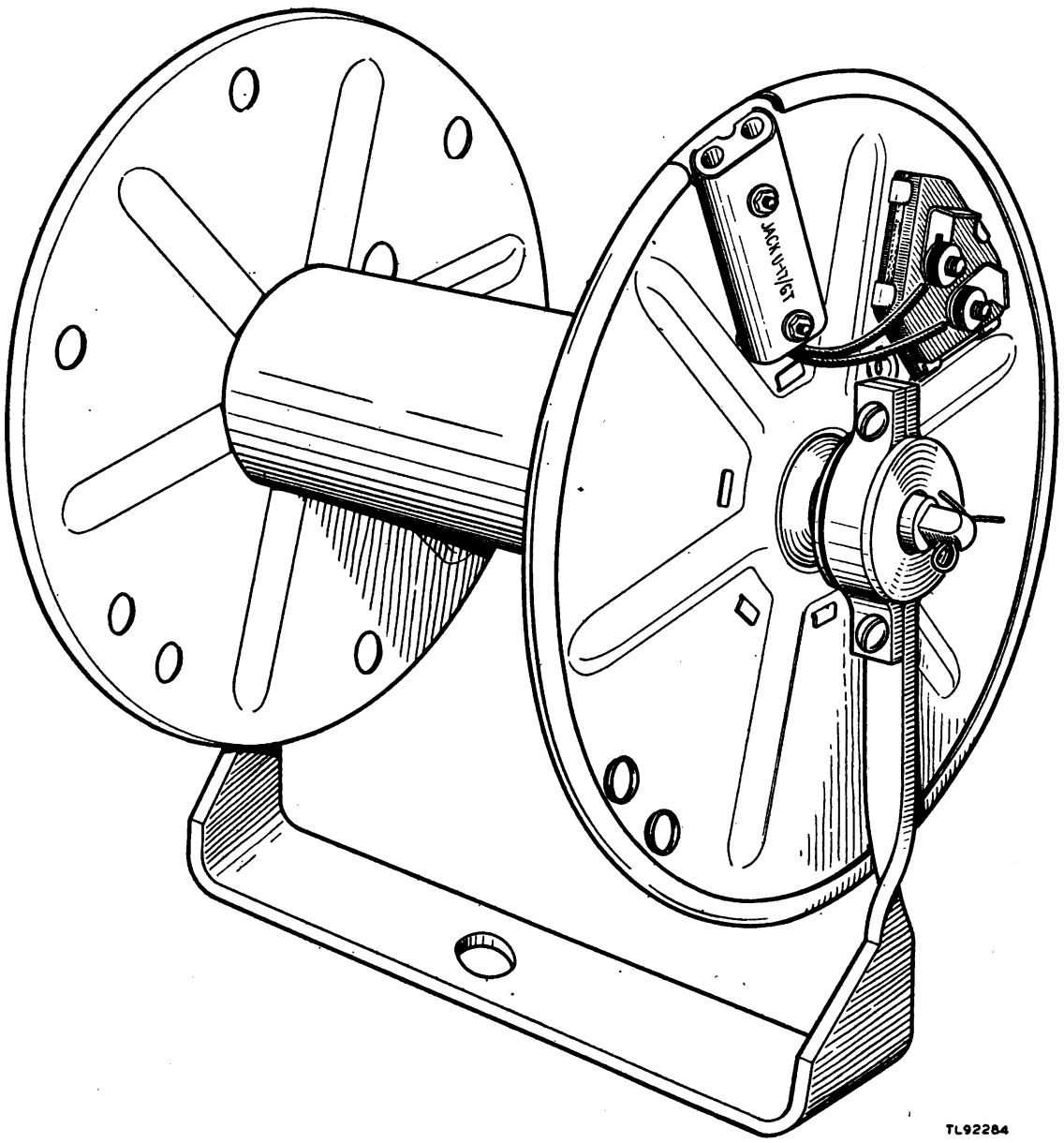


Figure 5. Details of mounting reel on reel bracket.

13. MOUNTING JACK PANEL SB-16/GT IN EXECUTIVE OFFICER'S HALF-TRACK.

Hang Jack Panel SB-16/GT on any suitable place in the executive officer's half-track by means of the clips provided on the rear of the panel box.

14. PLACING WIRE W-130 ON SPOOL DR-8-( ) OF REEL RL-39-( ).

Connect the spool end of the wire to the binding posts on Connector M-221 of Spool DR-8-( ). To do this, insert the end of the

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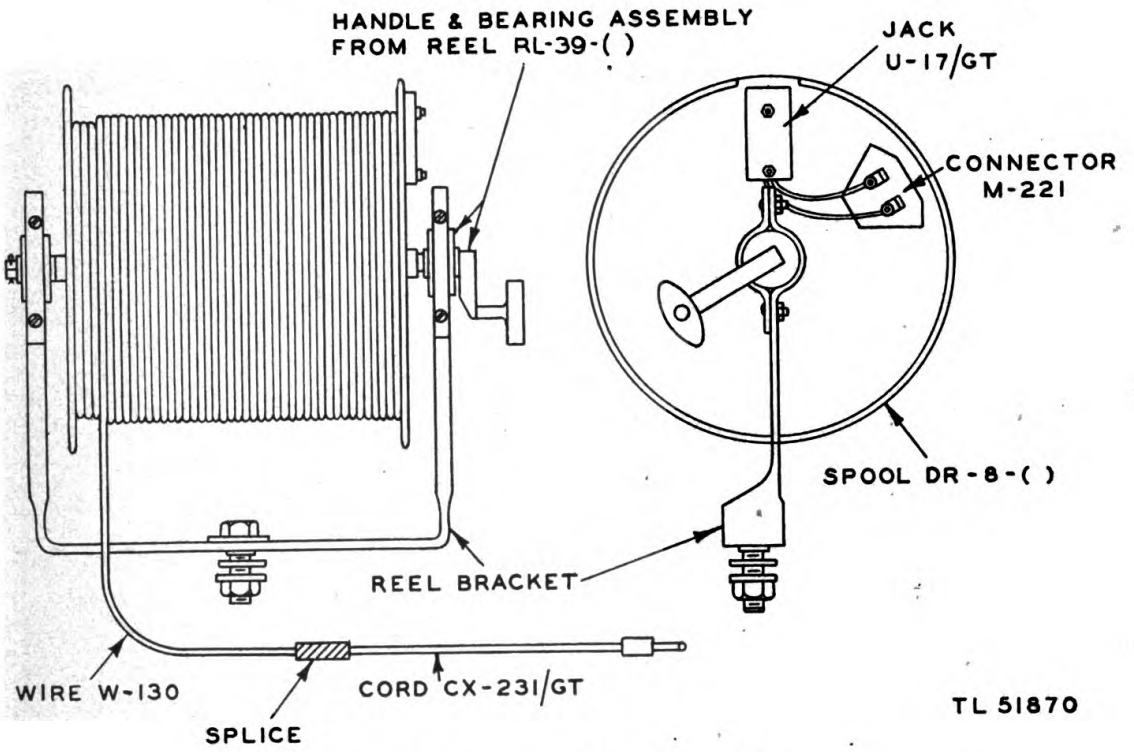


Figure 6. General assembly of modified reel.

wire through the rubber bushing directly below the binding posts on the spool flange and remove about ¾-inch of the insulation. Connect the bare wire ends to the terminals by means of the thumbnuts and slowly wind a few turns of wire onto the spool. Be careful not to pull the wire out of the binding posts. Continue to turn the handle until the desired amount of wire has been wound onto the spool. Splice Cord CX-231/GT to the running end of the wire as described in paragraph 15 below.

15. PROCEDURE FOR SPLICING CORD CX-231/GT TO WIRE W-130 (fig. 9).

a. Strip end of Wire W-130 to expose 3 inches of conductor.

b. Tie conductors of Cord CX-231/GT to bared conductors on Wire W-130 with square knots.

c. Draw knots tight.

d. Secure the splice by passing the tinned copper end around the knot to the opposite side. Wrap the end tightly around the bare Wire W-130, continuing on the insulation for at least two turns.

e. Cut off excess wire and pinch ends into insulation.

f. Tape each splice.

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16. CONNECTING TELEPHONE EE-8-( ) TO MODIFIED REEL (fig. 10).

a. Secure a sufficient amount of Wire W-130 to reach from the position of Telephone EE-8-( ) within the howitzer motor carriage or half-track to the modified reel mounted on the vehicle.

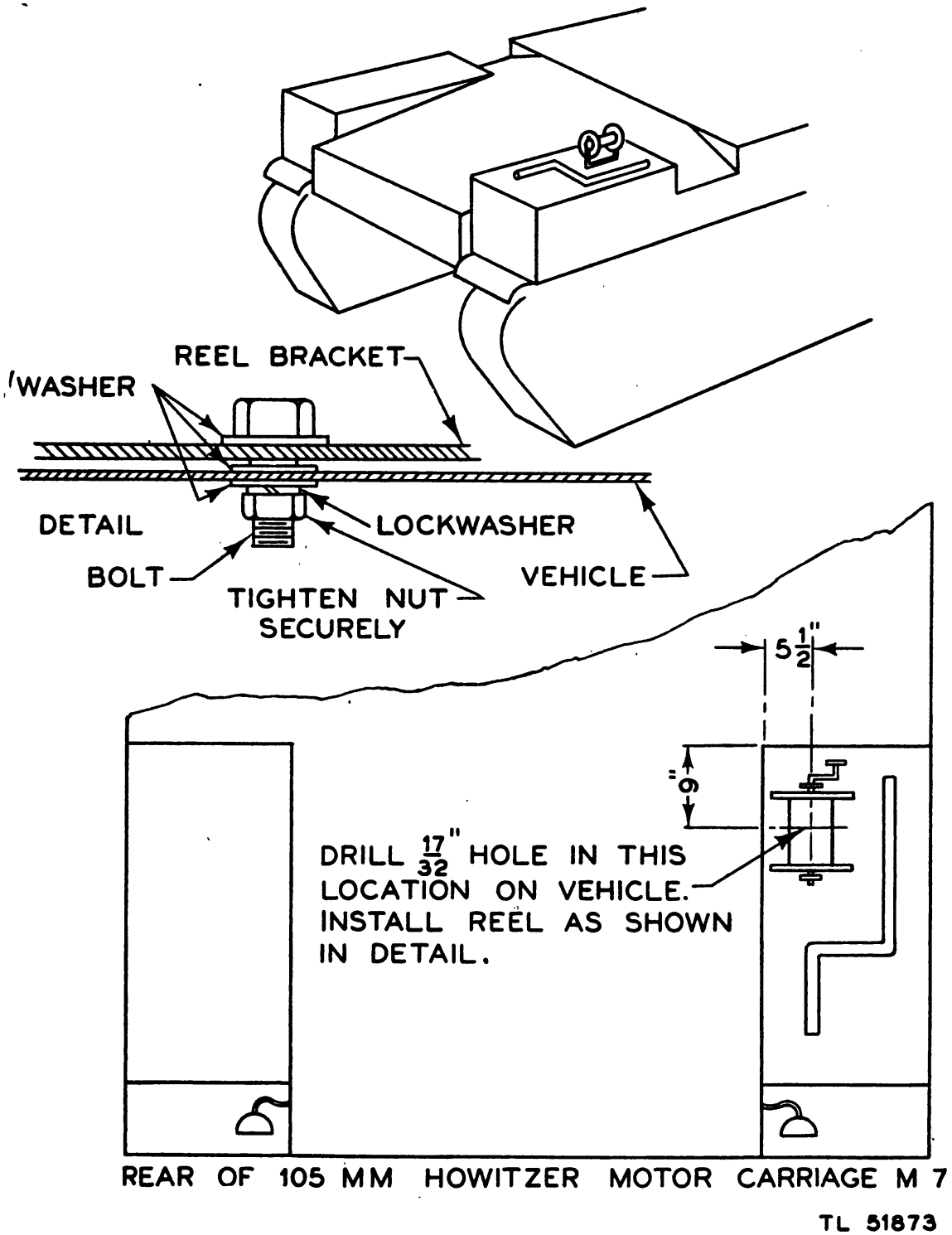


Figure 7. Mounting reel bracket on gun motor carriage.

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b. Bare 3 inches of each conductor at each end of Wire W-130.

c. Connect the bare conductors of one end of Wire W-130 to the L1 and L2 terminals on Telephone EE-8-( ).

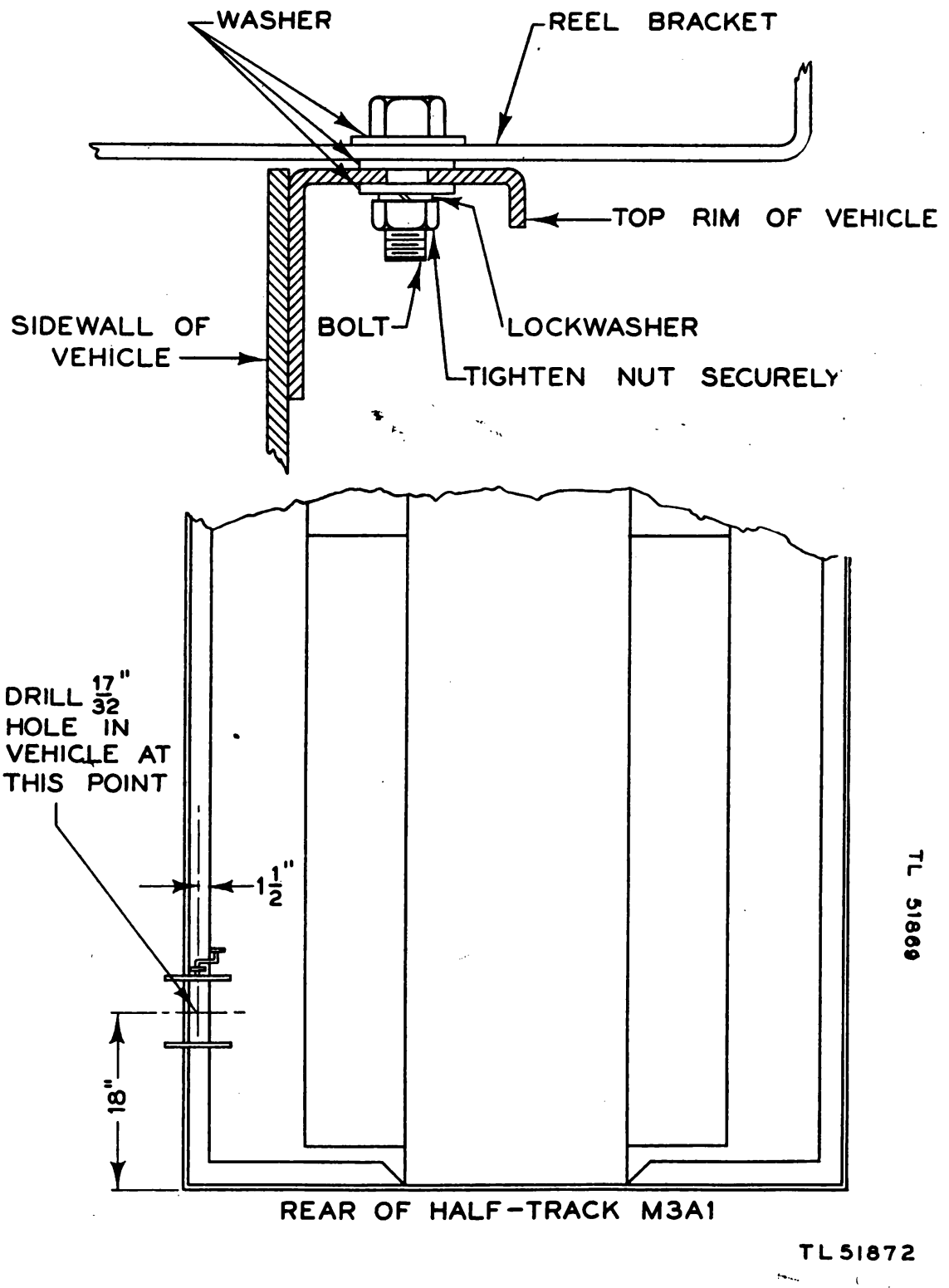
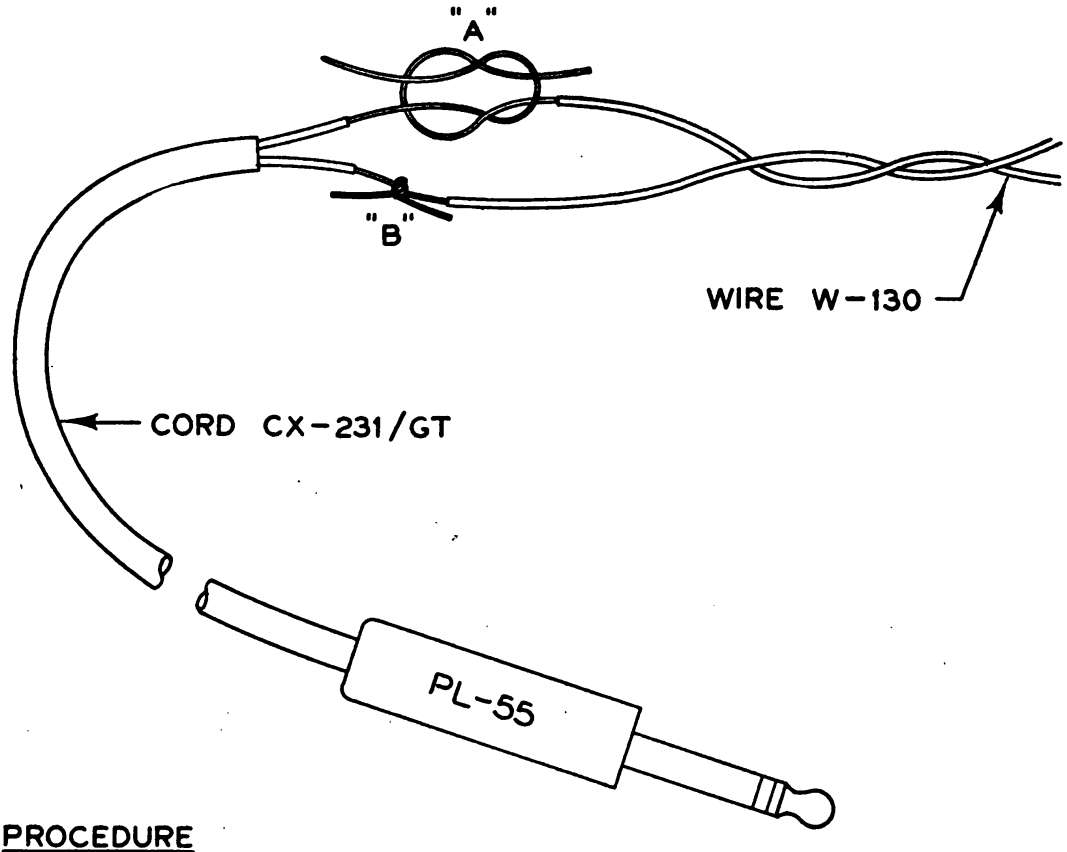


Figure 8. Mounting reel bracket on half-track.

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PROCEDURE

1. STRIP WIRE W-130 TO EXPOSE 3 INCHES OF CONDUCTOR
2. TIE CONDUCTOR OF WIRE TO CONDUCTOR OF CORD CX-231/GT AS SHOWN AT "A".
3. DRAW KNOT TIGHT AS SHOWN AT "B".
4. TAPE EACH SPLICE.

Figure 9. Splicing Cord CX-231/GT to Wire W-130.

d. Splice Cord CX-231/GT to the other end of Wire W-130 as described in paragraph 15. Insert the plug of Cord CX-231/GT into Jack U-17/GT mounted on modified Reel RL-39-( ).

17. CONNECTING MODIFIED REEL TO JACK PANEL SB-16/GT.

Insert Plug PL-55 of Cord CX-231/GT, which is spliced to the running end of the wire mounted on modified Reel RL-39-( ), into the proper jack hole on Jack Panel SB-16/GT.

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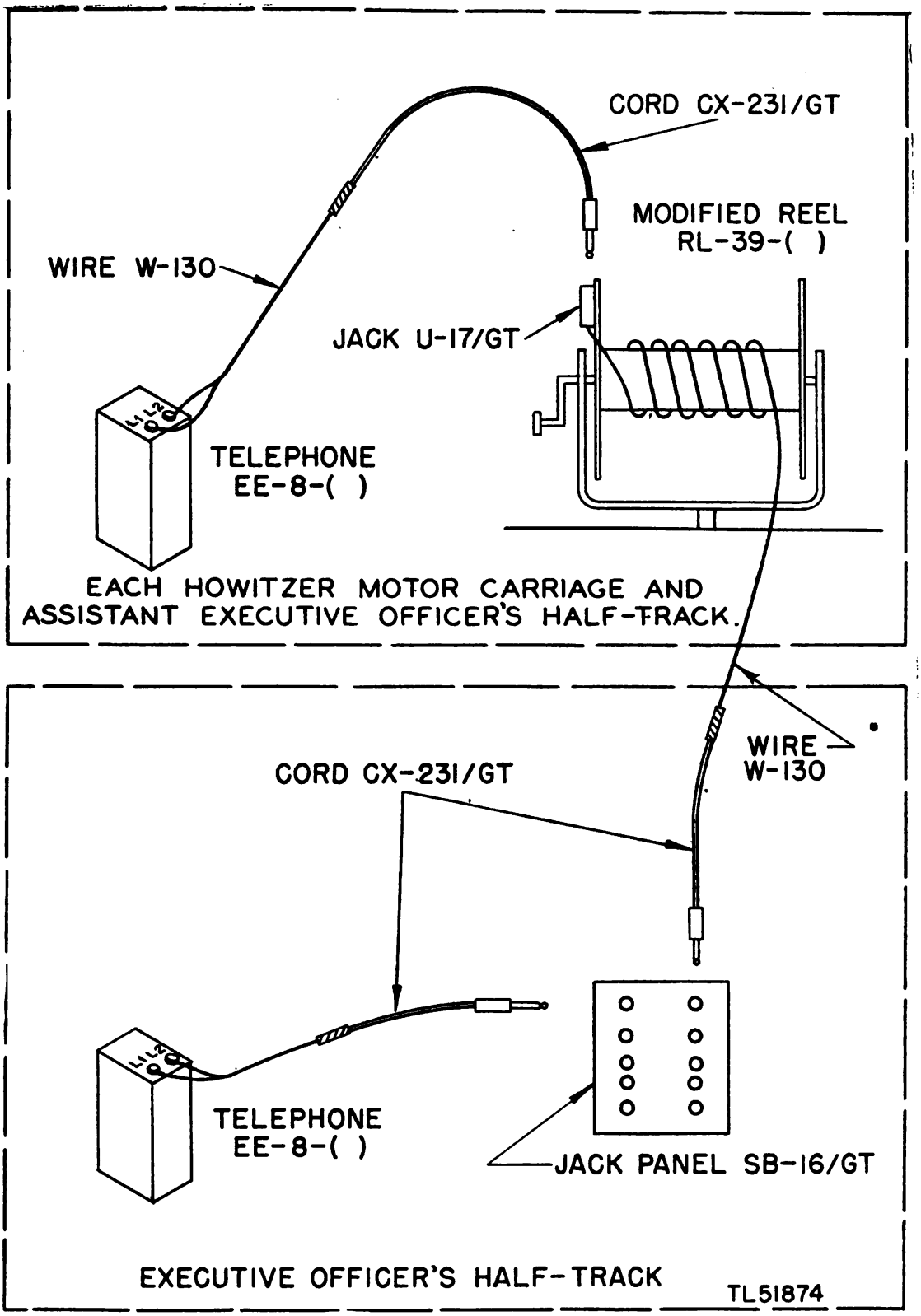


Figure 10. Operational diagram.

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18. CONNECTING EXECUTIVE OFFICER'S TELEPHONE EE-8-( ) TO JACK PANEL SB-16/GT.

a. Secure sufficient Wire W-130 to reach from the executive officer's Telephone EE-8-( ) within the half-track to Jack Panel SB-16/GT.

b. Proceed as described in paragraph 16**b** and **c.**

c. Splice Cord CX-231/GT to the other end of Wire W-130 as described in paragraph 15. Insert the plug of Cord CX-231/GT into the EXEC. jack of Jack Panel SB-16/GT.

NOTE: The procedure outlined in paragraphs 9, 10, 11, 12, 14, 15, 16 and 17 should be followed by each gun section and by the assistant executive officer so that all gun crews involved can be brought into telephone communication with the battery executive officer.

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SECTION III

FUNCTIONING OF PARTS

19. JACK PANEL SB-16/GT (figs. 2 and 11).

a. Jack Panel SB-16/GT consists of 10 Jacks JK-34-A arranged in two separate circuits. The two Jacks JK-34-A on the panel labeled ADJ. GUN. and EXEC. are wired in parallel and have no electrical connection to the other eight Jacks JK-34-A. The other eight jacks labeled ASST. EXEC., EXEC., and numbered 1 to 6 make up the gun battery circuit and are wired in parallel also.

b. When Cords CX-231/GT are plugged into the two jacks in the smaller circuit (ADJ. GUN. and EXEC.), signals can be carried between the adjacent gun battery and the battery executive officer.

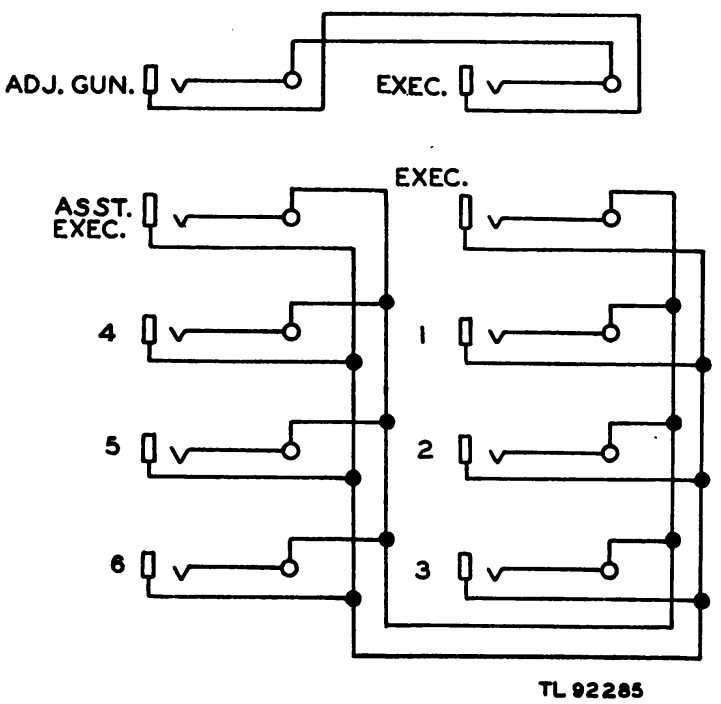


Figure 11. Jack Panel SB-16/GT, schematic diagram.

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c. In the gun battery circuit, with Cords CX-231/GT plugged into the EXEC. jack and any or all of the other seven jacks, the signals from the battery executive officer can be simultaneously carried to all others plugged in.

d. Power for these circuits is furnished by the Batteries BA-30 in Telephones EE-8-( ) used by operating personnel.

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SECTION IV

MAINTENANCE

Note: Failure or unsatisfactory performance of equipment will be reported on W.D., A.G.O. Form 468. If this form is not available, see TM 38-250.

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20. GENERAL.

Prior to each time that the equipment is to be used take care to insure that parts are mounted securely.

a. Tighten nuts on the bolts mounting Jack U-17/GT to Spool DR-8-( ).

b. Tighten reel bracket clamps around the bearing assemblies on modified Reel RL-39-( ).

c. Tighten nut on the bolt mounting reel bracket to vehicle.

21. LUBRICATION OF MODIFIED REEL RL-39-( ).

a. Recommended Lubricants.

Approved symbol	*Standard nomenclature*	*Specification No.*
SD	Solvent, Dry Cleaning.	Federal P-S-661a.
OE	Oil, Engine, SAE No. 30.	U. S. Army 2-104B.

NOTE: Army Regulation 850-20 prohibits the use of leaded gasoline as a cleaning fluid under any condition.

b. General. A few drops of engine oil SAE No. 30 (OE) should be placed monthly in the small oil fittings in each bearing assembly and in the oil hole of the crank handle.

c. Cleaning Bearing Assemblies. To clean the bearing bushing and bearing remove the axle from the spool and unscrew the four flathead machine screws on the inner side of each bearing bushing.

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The retaining disk can then be removed and the bearing bushing and bearing made accessible for cleaning with dry cleaning solvent (SD) and a piece of cotton waste. When reassembling the bearing and bearing bushing make sure that the sides containing the machine screws are facing each other, with the oil cups on the outside. Put a few drops of engine oil SAE No. 30 (OE) in each oil cup after the unit has been completely reassembled.

22. MOISTUREPROOFING AND FUNGIPROOFING (fig. 12).

a. General. The operation of Signal Corps equipment in tropical areas where temperature and relative humidity are extremely high requires special attention. The following items represent problems which may be encountered in operation.

(1) Hook-up wire and cable insulation break down. Fungus growth accelerates deterioration.

(2) Moisture forms electrical leakage paths on terminal boards and insulating strips, causing flash-overs and crosstalks.

b. Treatment. A moistureproofing and fungiproofing treatment has been devised which, if properly applied, provides a reasonable degree of protection against fungus growth, insects, corrosion, salt spray, and moisture. The treatment involves the use of a moisture- and fungi-resistant varnish applied with a spray gun or brush. Refer to TB SIG 13, Moistureproofing and Fungiproofing Signal Corps Equipment, for a detailed description of the varnish-spray method of moistureproofing and fungiproofing.

CAUTION: Varnish spray may have toxic effects if inhaled. To avoid inhaling spray, use respirator if available; otherwise fasten cheesecloth or other cloth material over nose and mouth.

c. Step-by-step Instructions for Treating Connecting and Switching Kit MX-155/GT.

(1) PREPARATION.

(a) Make all repairs and adjustments necessary for proper operation to the parts of the kit.

(b) Clean all dirt, dust, rust, fungus, oil, grease, etc., from all parts of the kit.

(2)DISASSEMBLY.

(a) Unscrew the four flathead screws and remove the phenolic panel from the steel box of Jack Panel SB-16/GT.

(b) Unscrew the shell of Plug PL-55 and slip it back over the cordage part of Cord CX-231/GT.

(c) Remove two mounting nuts and bolts from Jack U-17/GT.

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Unscrew the four cover-plate screws and slide the cover off the jack. Remove the fiber strip.

(3) MASKING.

(a) Mask the contact springs of Jacks JK-34-A on the Jack Panel SB-16/GT. On the back of the panel mask the hole in the sleeve of each Jack JK-34-A.

(b) Mask the contact points on the two contact springs of Jack U-17/GT. Mask the two sleeve holes in the body of Jack U-17/GT.

(c) No masking of Cord CX-231/GT is necessary.

(4) DRYING. Place the panel of Jack Panel SB-16/GT, Plug PL-55, and Jack U-17/GT in an oven or under heat lamps and dry for 2 to 3 hours at 160°F.

(5) VARNISHING.

(a) Apply three coats of Lacquer, Fungus-resistant, Spec. No. 71-2202 (Stock No. 6G1005.3) or equal.

(b) With a spray gun, spray all surfaces exposed on the back of the phenolic panel of Jack Panel SB-16/GT.

(c) Use a brush to apply varnish to the edges of the phenolic panel.

(d) With a small brush apply varnish to terminals and wires inside Plug PL-55.

(e) With a small brush apply varnish to all exposed surfaces inside Jack U-17/GT.

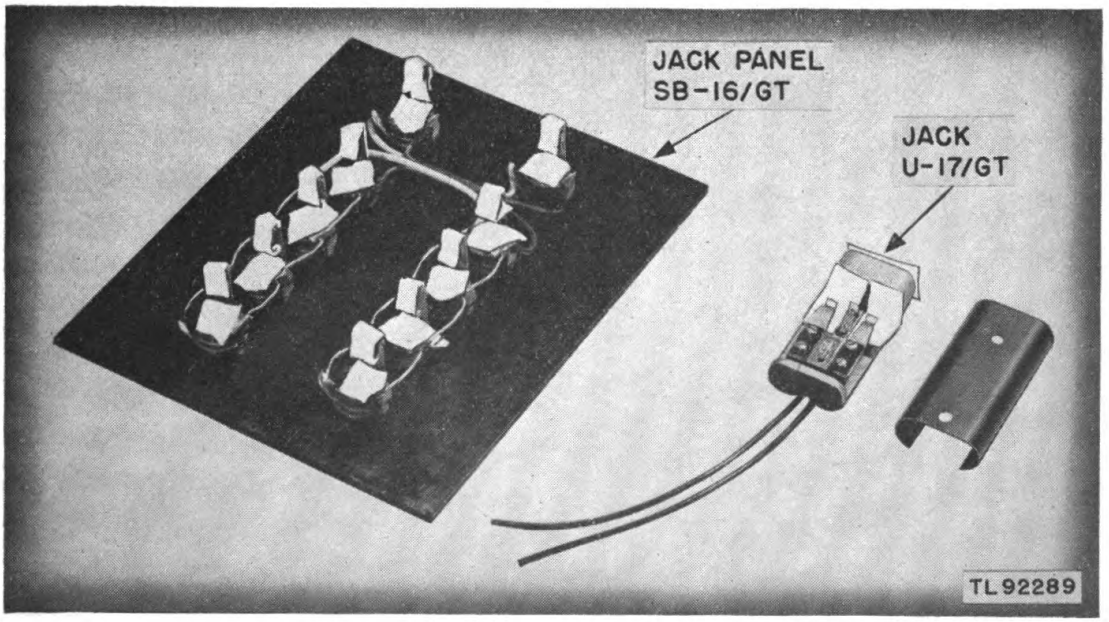


Figure 12. Jack U-17/GT and Jack Panel SB-16/GT, prepared for moisture-proofing and fungiproofing.

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(f) Do not treat steel box of Jack Panel SB-16/GT, cover plate of Jack U-17/GT, or shell of Plug PL-55.

(6) REASSEMBLY.

(a) Remove all masking tape.

(b) Clean all contacts with varnish remover, and burnish the contacts.

(c) Reassemble the parts of the kit and test its operation.

(7) MARKING. Mark the equipment with MFP and the date of treatment.

EXAMPLE: MFP—11 August 1944.

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SECTION V
SUPPLEMENTARY DATA

23. MAINTENANCE PARTS LIST FOR CONNECTING AND SWITCHING KIT MX-155/GT.

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per unit	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
	4C5325-155/B2	BUSHING: bearing; steel; 1/2" ID, 5/8" OD x 7/32" long; parkerized; (used with bracket mtg bolt); G. S. Alverson Co.	7	3		*	*	*	*
(Fig. 1)	4C5325-155/C1	CLAMP: steel; 7/16" x 3-3/4" x 3/16" overall; two 0.204" diam holes in 2-3/8" centers; (holds reel in bracket).	14					*	*
(Fig. 1)	3E6000-231	CORD CX-231/GT: 2-conductor; 32" long; Cordage CO-144; complete with Plug PL-55 on one end, other end stripped 3"; (connects circuit).	15	3	*	*		*	*
	3E2144	CORDAGE CO-144.				*	*	*	*
(Fig. 1)	4C5325-155/F1	FRAME: reel bracket; steel; 9-15/32" x 8-7/8"; four 0.204" holes on 2-3/8" centers; one 21/32" mtg hole in center; cross member 3/16" x 1-1/2", legs 3/16" x 7/16"; bonderized; (mounts reel).	7			*		*	*
(Fig. 2)	2Z5534A	JACK JK-34-A.	10	3		*	*	*	*
(Fig. 1)	2Z5565-17	JACK U-17/GT.	7	2	*	*	*	*	*
(Fig. 1)	6L3508-13Z	NUT: hex; steel; 1/2"; (mounts bracket).	7	3		*	*	*	*
	2Z7155	PLUG PL-55.				*	*	*	*

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23. MAINTENANCE PARTS LIST FOR CONNECTING AND SWITCHING KIT MX-155/GT. (Contd.)

Ref symbol	Signal Corps stock No.	Name of part and description	Quan per unit	Running spares	Orgn stock	3d ech	4th ech	5th ech	Depot stock
(Fig. 1)	6L6832-4P	SCREW: machine; steel; FH; parkerized; No. 8-32 x 1/4"; (mounts jack panel).	4	12		*	*	*	*
(Fig. 6)	6L608-1.8PH	SCREW: cap; hex. head; cold-steel; 1/2"-13 x 1-3/4"; parkerized; (mounts reel bracket).	7	3		*	*	*	*
	6L58018P	WASHER: flat; steel; 9/16" ID x 1-3/8" OD x 7/64" thick; parkerized; (for 1/2" bolt).	21	9		*	*	*	*
	6L71109P	WASHER: lock; steel; 9/16"; parkerized; (for 1/2" bolt).	7	3		*	*	*	*

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