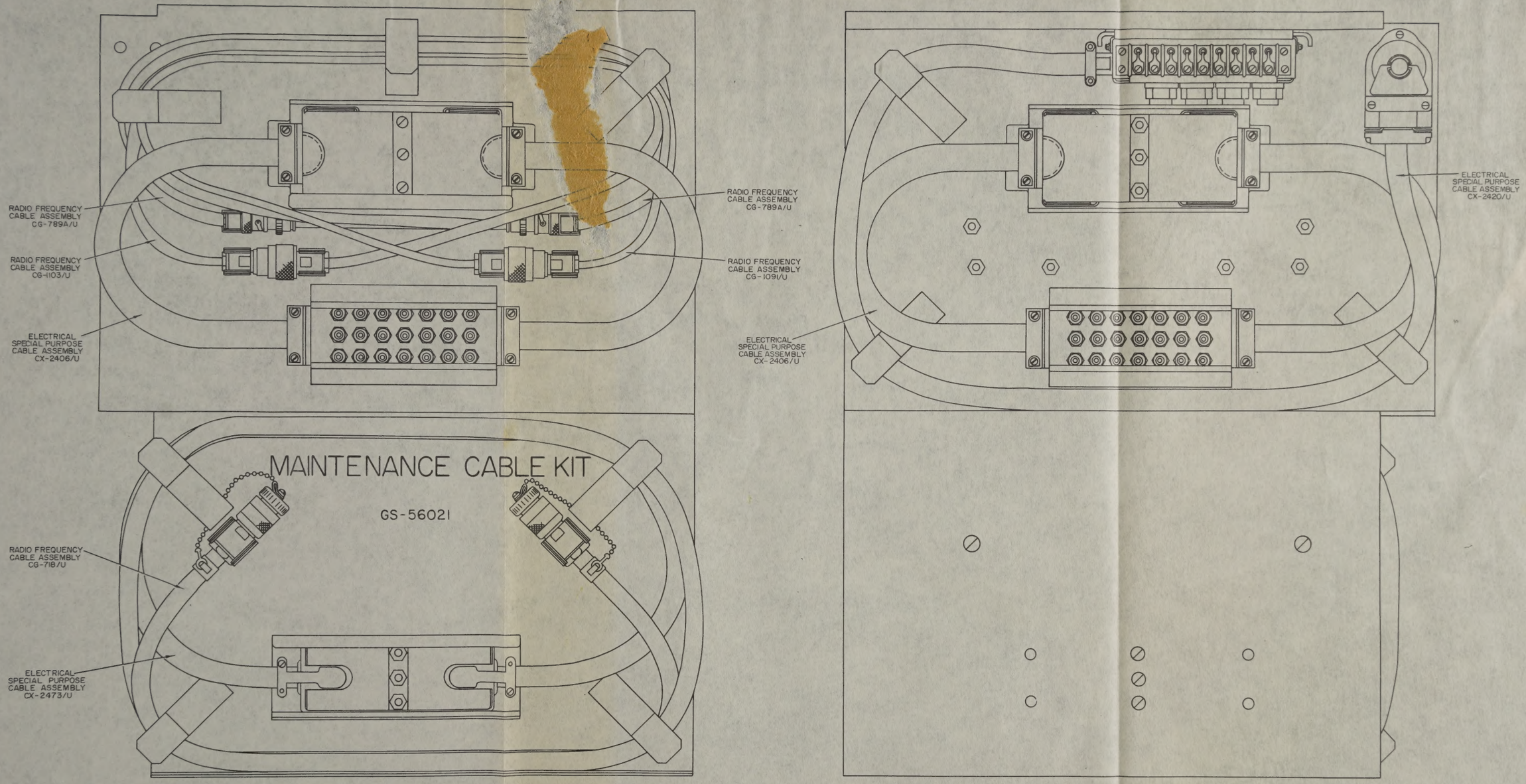


Figure 30. Maintenance cable holding frame for Accessories Case CY-1343/TRC, left and right side views.

381345 O - 56 (In pocket)

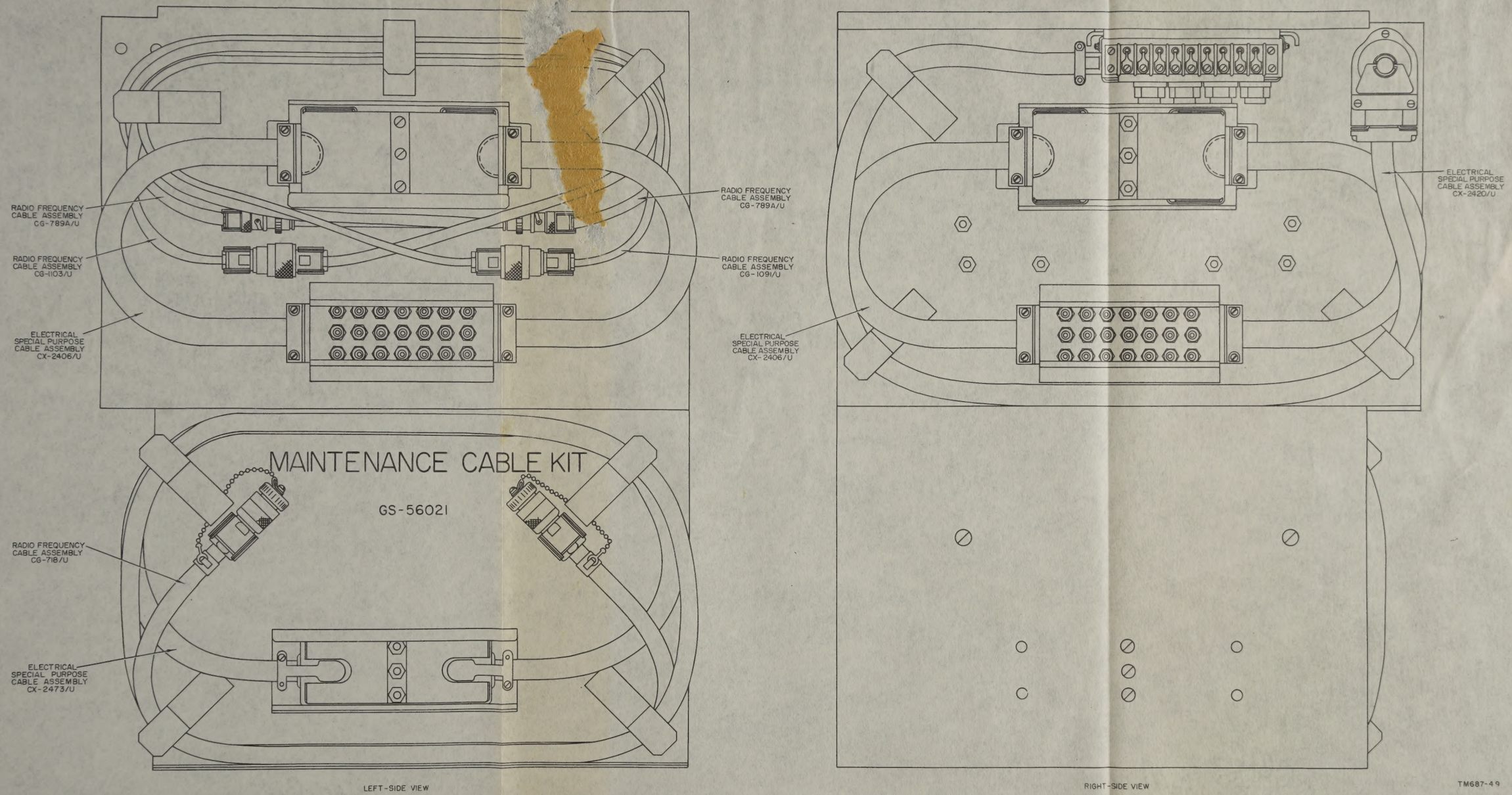


Figure 30. Maintenance cable holding frame for Accessories Case CY–1343/TRC, left and right side views.

381345 O - 56 (In pocket)

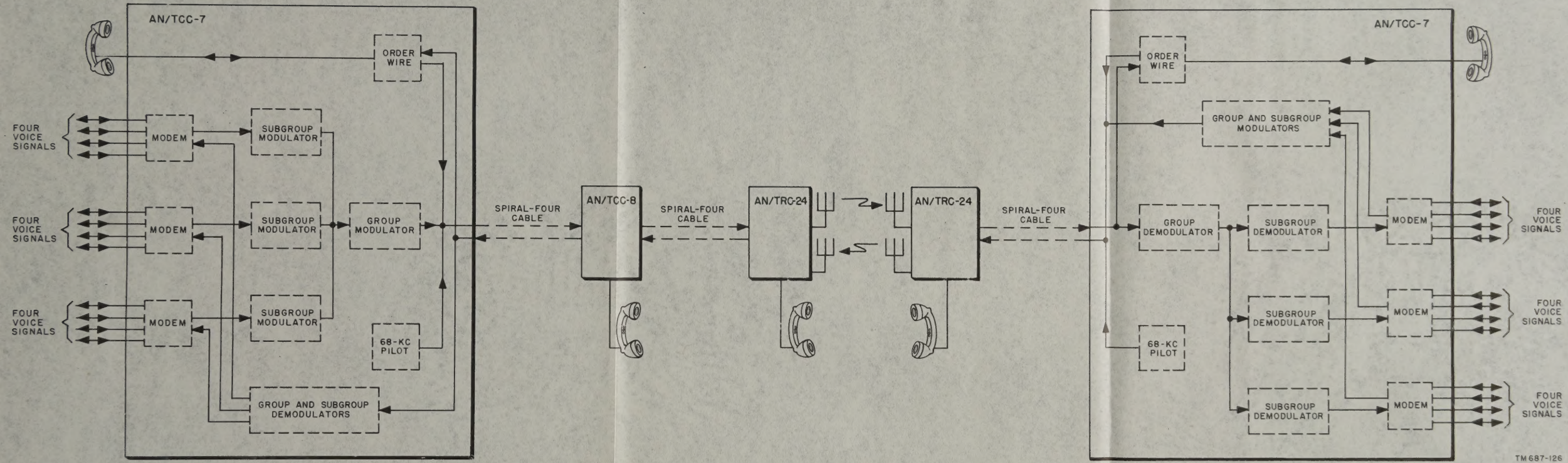


Figure 134. Telephone carrier system, AN/TCC–7, combined with Radio Set AN/TRC–24, block diagram.

381345 O - 58 (In pocket)

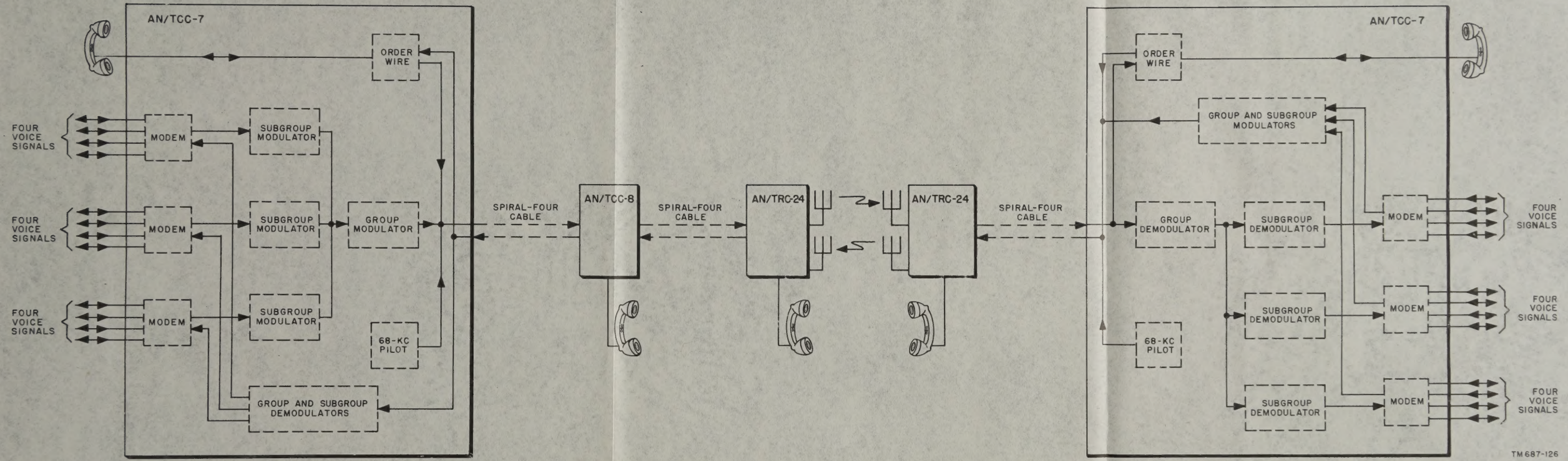
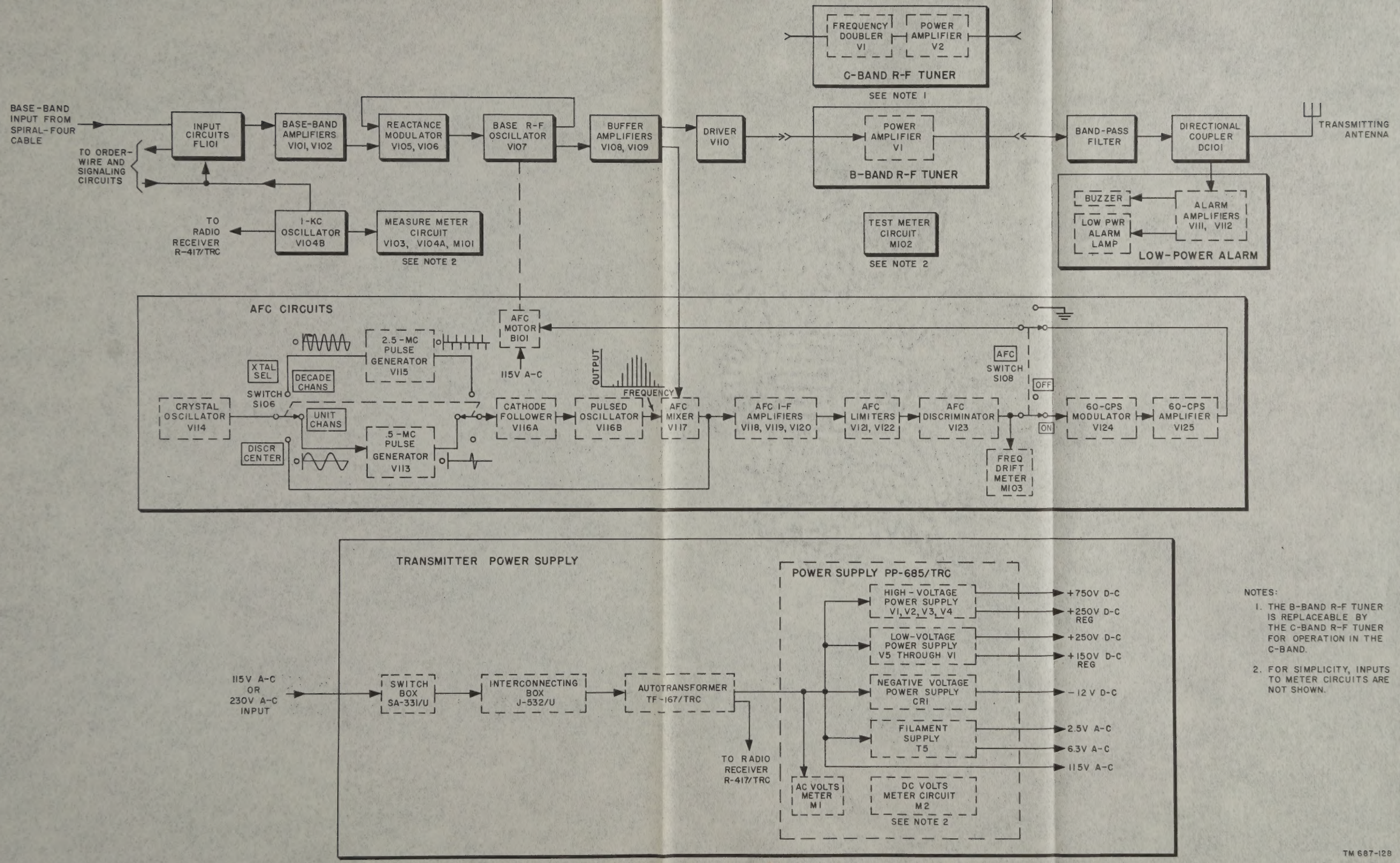


Figure 134. Telephone carrier system, AN/TCC–7, combined with Radio Set AN/TRC–24, block diagram.

381345 O - 56 (In pocket)



NOTES:

1. THE B-BAND R-F TUNER IS REPLACEABLE BY THE C-BAND R-F TUNER FOR OPERATION IN THE C-BAND.
2. FOR SIMPLICITY, INPUTS TO METER CIRCUITS ARE NOT SHOWN.

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Figure 136. Transmitter circuits, block diagram.

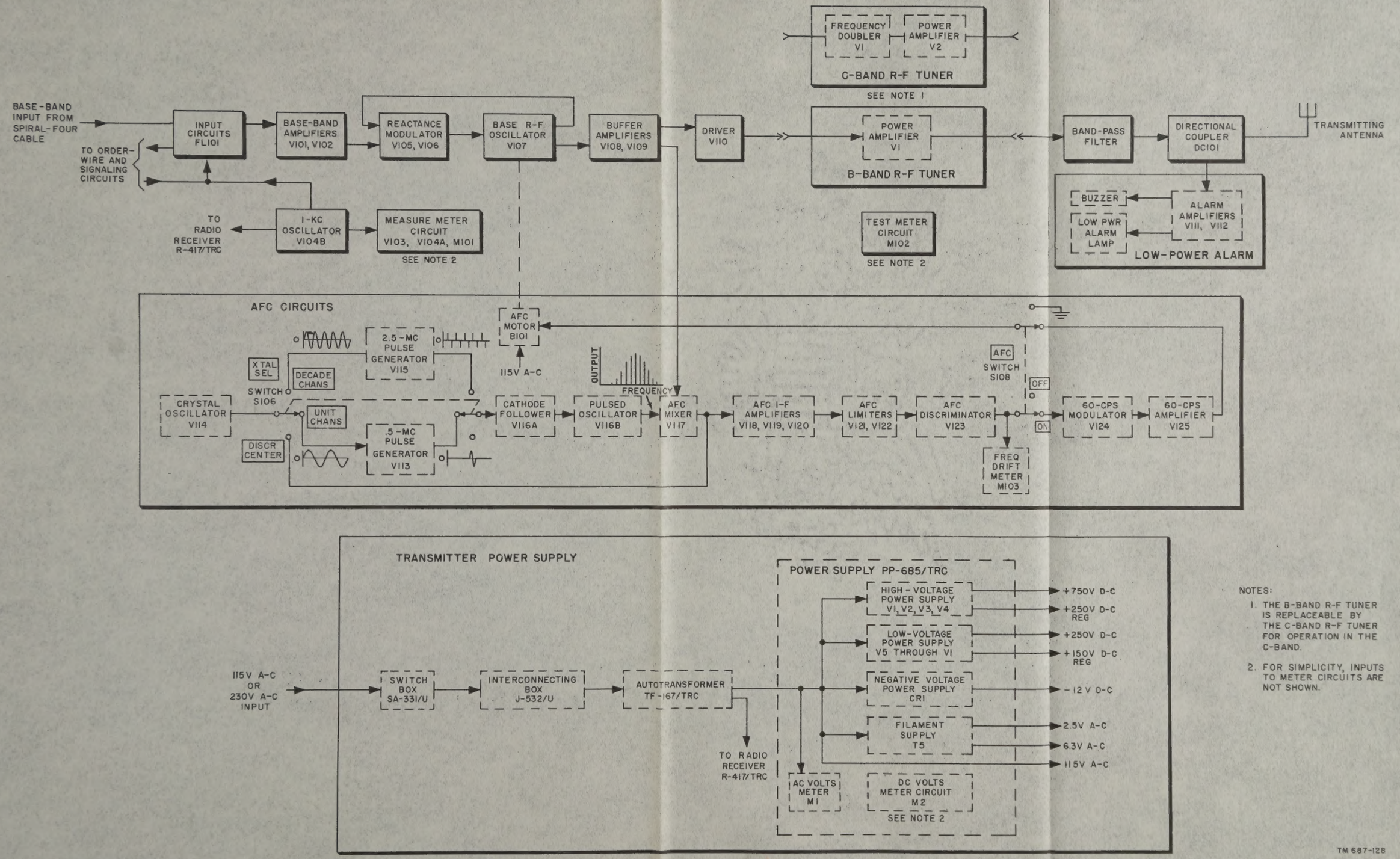
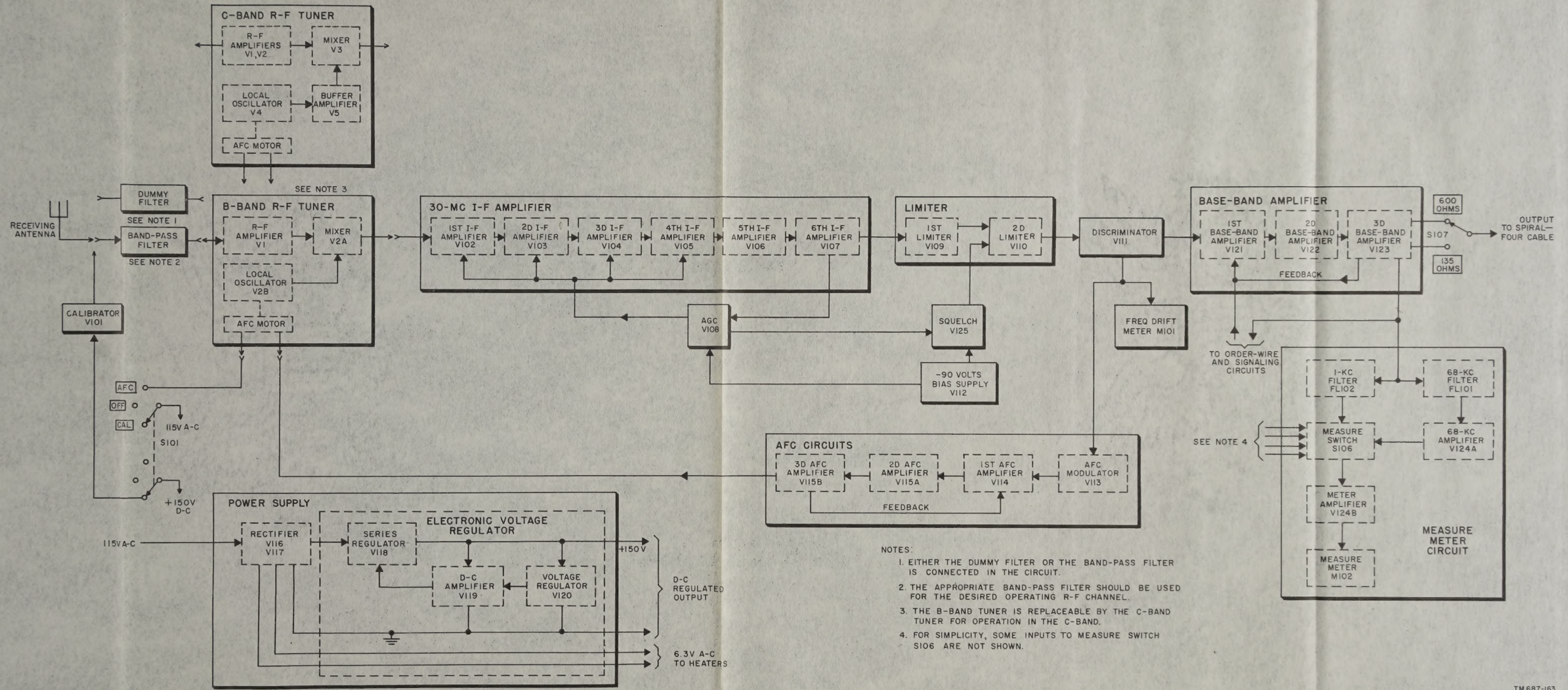


Figure 136. Transmitter circuits, block diagram.



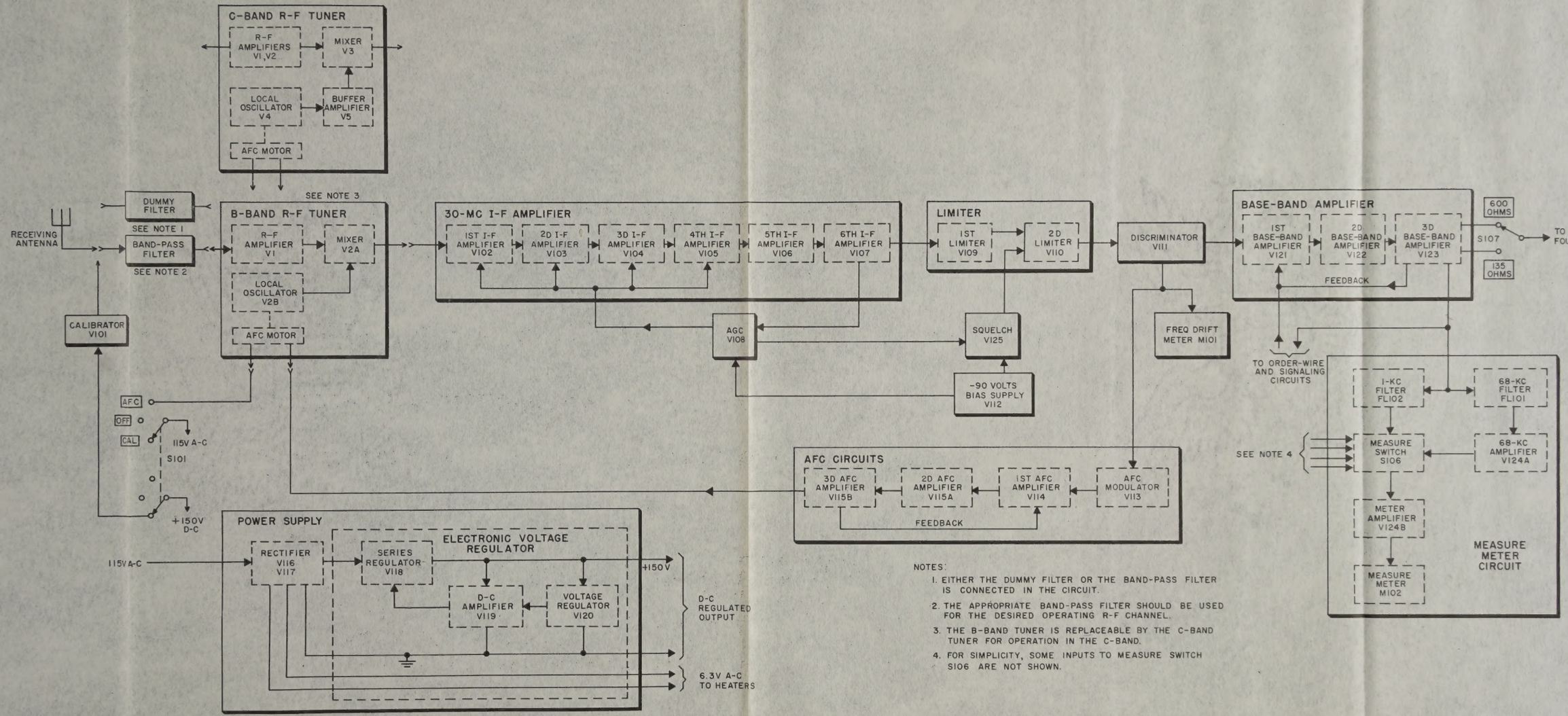
NOTES:

1. EITHER THE DUMMY FILTER OR THE BAND-PASS FILTER IS CONNECTED IN THE CIRCUIT.
2. THE APPROPRIATE BAND-PASS FILTER SHOULD BE USED FOR THE DESIRED OPERATING R-F CHANNEL.
3. THE B-BAND TUNER IS REPLACEABLE BY THE C-BAND TUNER FOR OPERATION IN THE C-BAND.
4. FOR SIMPLICITY, SOME INPUTS TO MEASURE SWITCH S106 ARE NOT SHOWN.

Figure 174. Receiver circuits, block diagram.

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381345 O - 56 (In pocket)



NOTES:

1. EITHER THE DUMMY FILTER OR THE BAND-PASS FILTER IS CONNECTED IN THE CIRCUIT.
2. THE APPROPRIATE BAND-PASS FILTER SHOULD BE USED FOR THE DESIRED OPERATING R-F CHANNEL.
3. THE B-BAND TUNER IS REPLACEABLE BY THE C-BAND TUNER FOR OPERATION IN THE C-BAND.
4. FOR SIMPLICITY, SOME INPUTS TO MEASURE SWITCH S106 ARE NOT SHOWN.

TM687-163

Figure 174. Receiver circuits, block diagram.

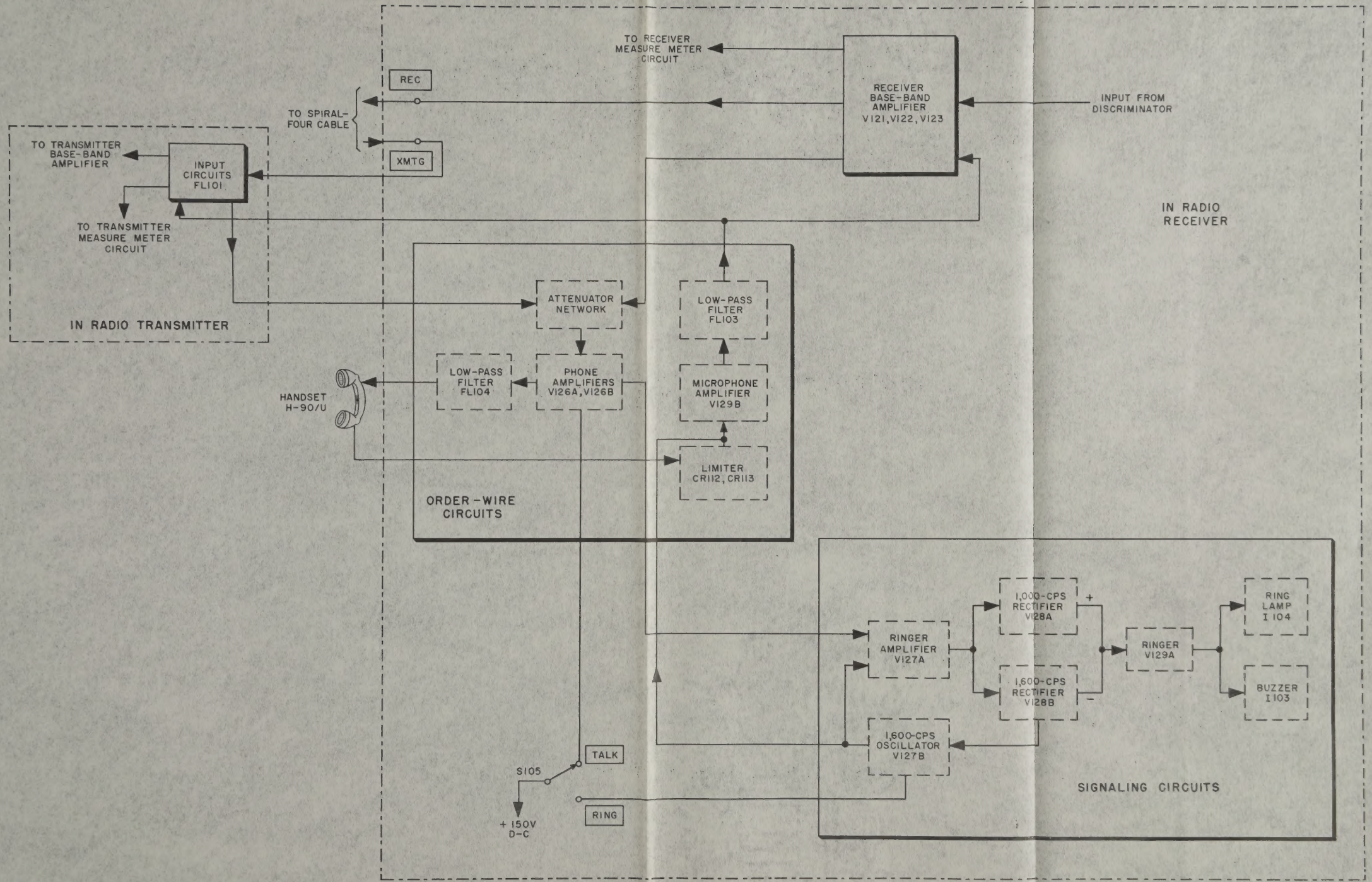


Figure 186. Order-wire and signaling circuits, block diagram.

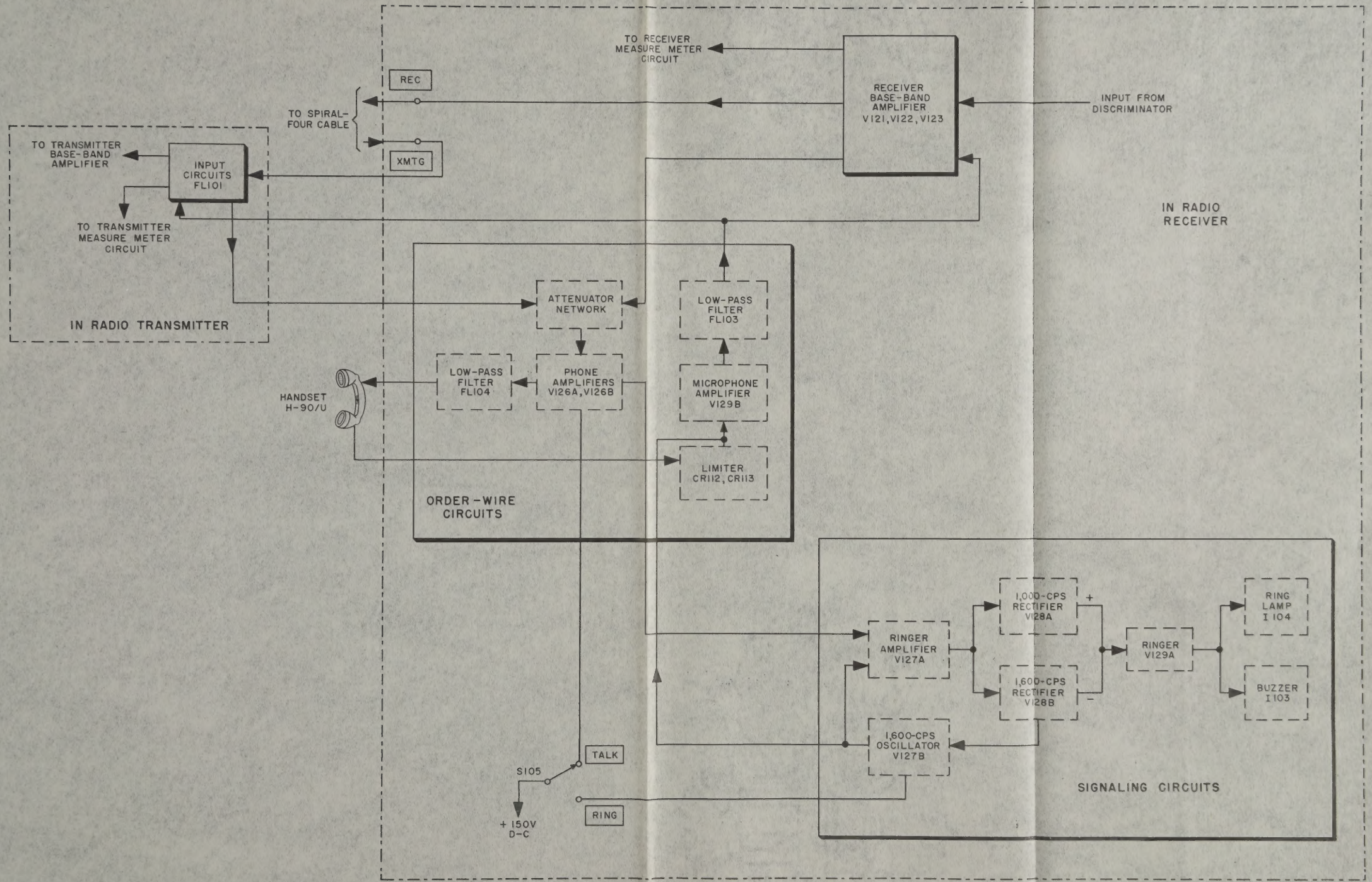


Figure 186. Order-wire and signaling circuits, block diagram.

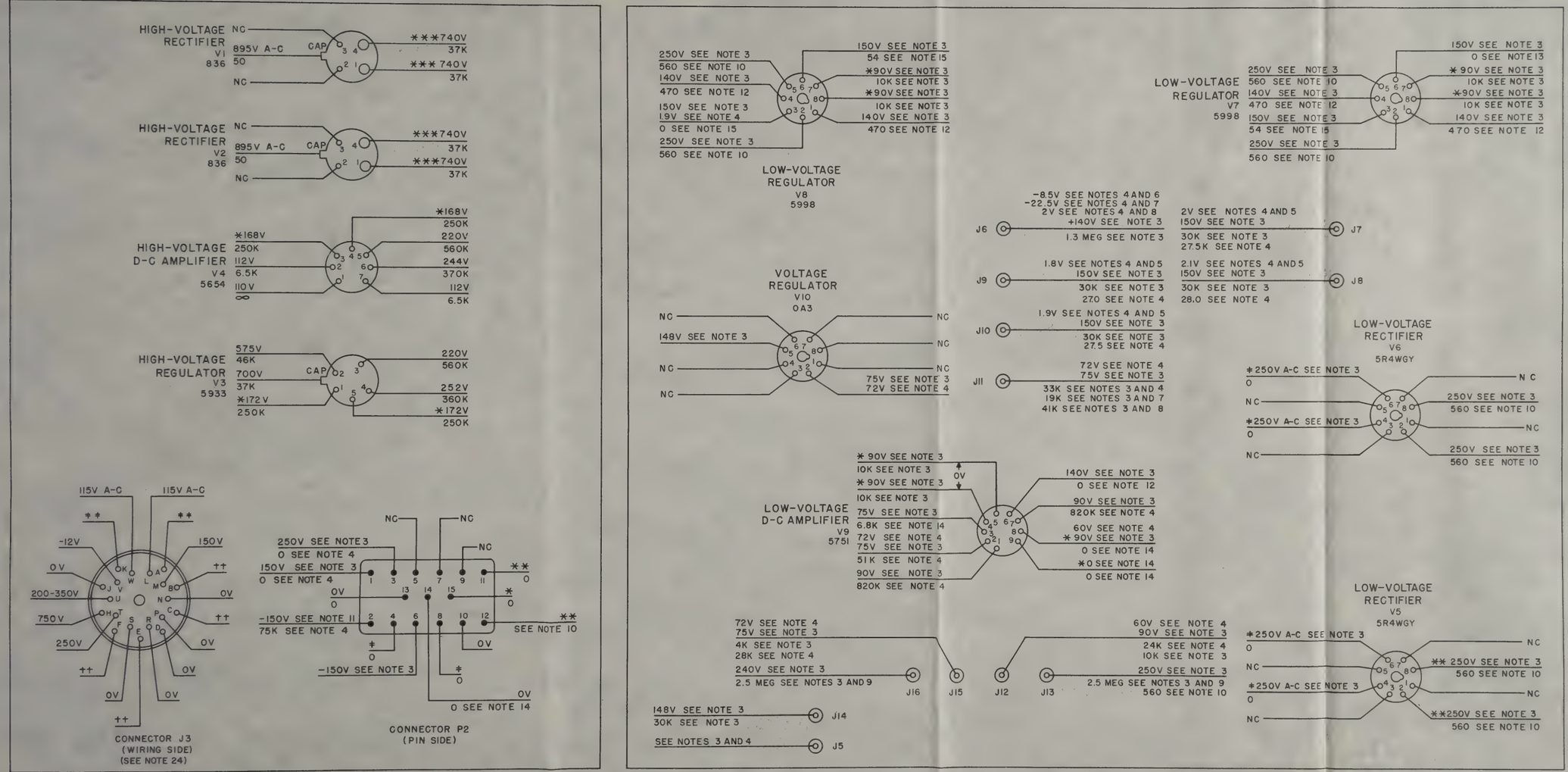


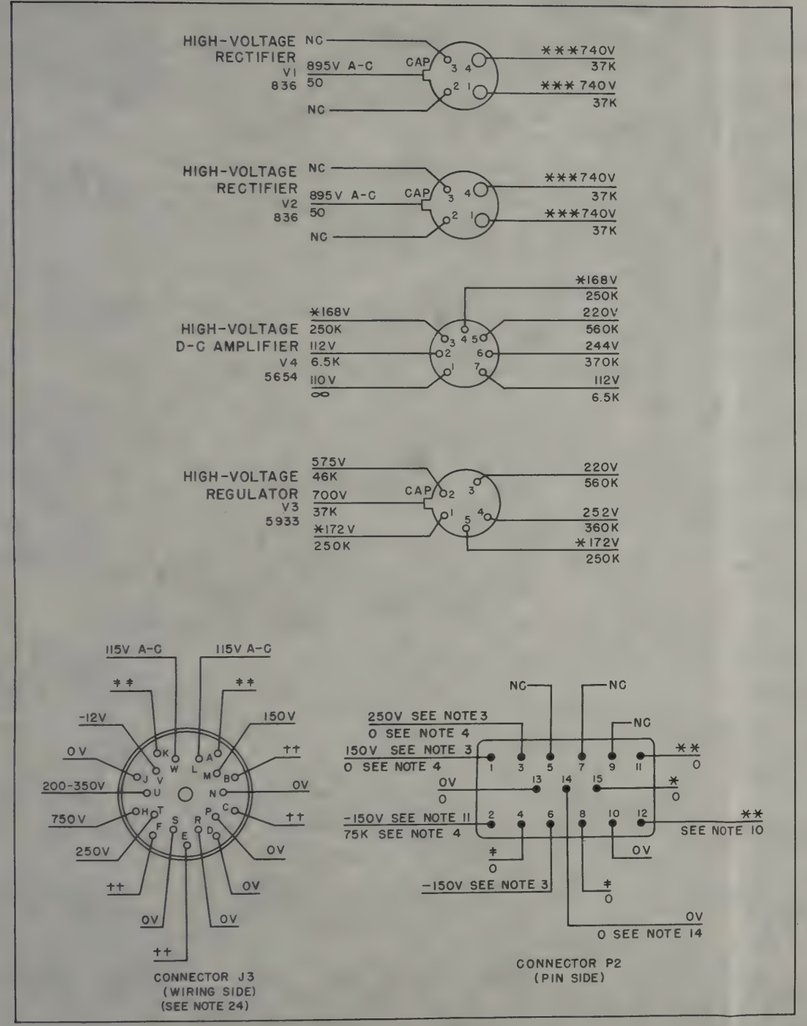
Figure 199. Power Supply PP-685/TRC, voltage and resistance diagram.

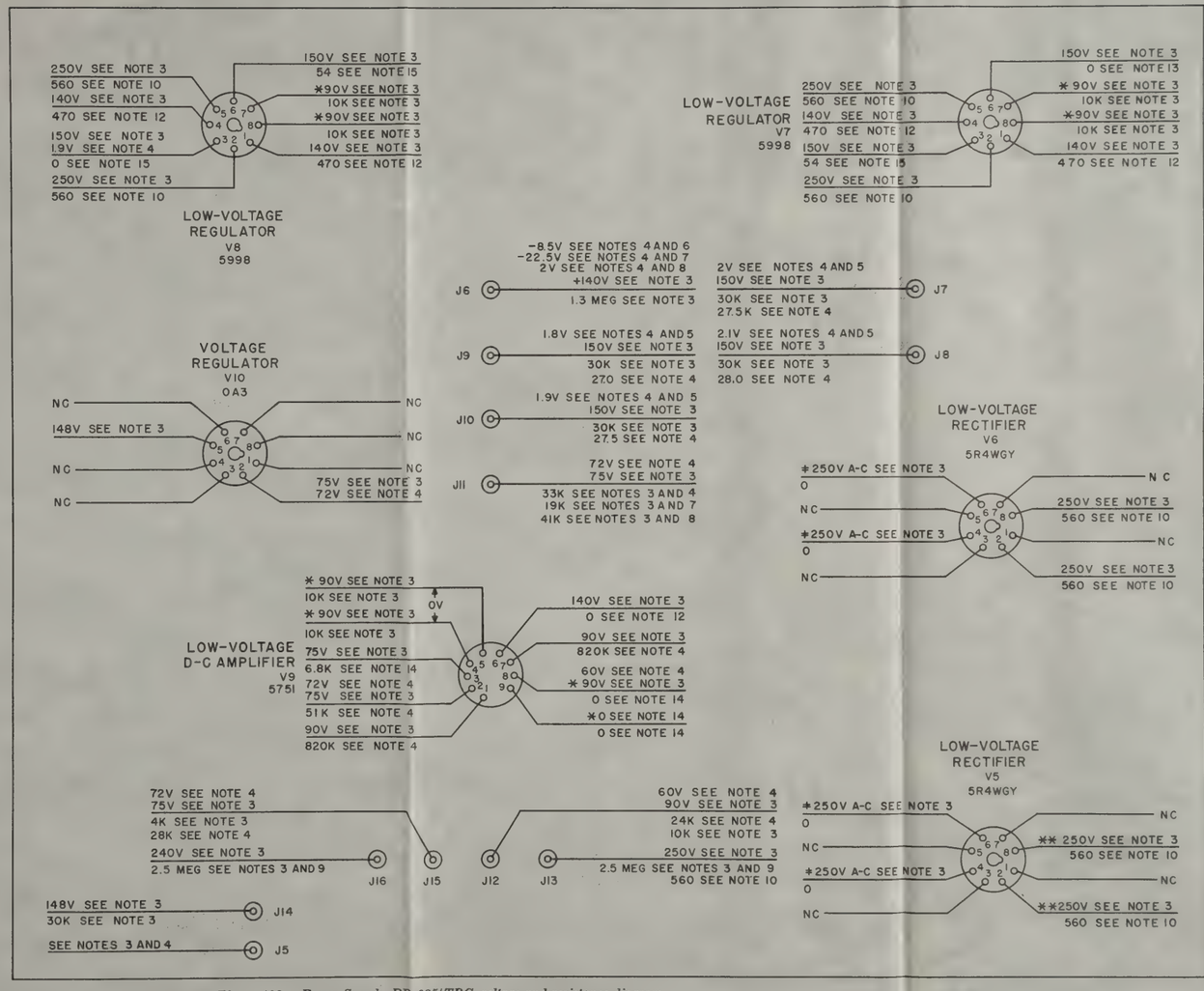
NOTES:

1. APPLY 115V A-C INPUT WHEN MEASURING VOLTAGES; DISCONNECT 115V A-C MEASURING RESISTANCES.
2. NC INDICATES NO CONNECTION.
3. ALWAYS CONNECT NEGATIVE TERMINAL OF VOLTMETER TO TEST JACK J5 WHEN MEASURING VOLTAGE.
4. ON SOME PLUG-IN ASSEMBLIES ON ORDER NO. 16881I-PHILA-51 TEST JACK J5 IS NOT CONNECTED TO CHASSIS. RESISTANCE MEASUREMENTS DEPEND ON THE ABOVE AND WILL ALSO VARY WITH LEAKAGE RESISTANCE.
5. VOLTAGES MEASURED FROM JACKS J7, J8, J9 AND J10 TO JACK J14 VARY WITH THE D-C LOAD BUT SHOULD BE APPROXIMATELY EQUAL TO EACH OTHER.
6. ADJUST 150V ADJ CONTROL TO NORMAL POSITION.
7. ADJUST 150V ADJ CONTROL TO EXTREME COUNTER-CLOCKWISE POSITION.
8. ADJUST 150V ADJ COUNTROL TO EXTREME CLOCKWISE POSITION.
9. ALLOW 10 MINUTES FOR OHMMETER TO CHARGE CAPACITORS BEFORE READING.
10. MEASURE TO JACK J16.
11. VOLTAGE VARIES WITH 150V ADJ CONTROL.
12. MEASURE TO JACK J6.
13. MEASURE TO JACK J7.
14. MEASURE TO JACK J12.
15. MEASURE TO JACK J10.
16. * INDICATES 64V A-C BETWEEN PINS.
17. ** INDICATES 5.1V A-C BETWEEN PINS.
18. *** INDICATES 2.7V A-C BETWEEN PINS.
19. + INDICATES 5.1V D-C BETWEEN PINS.
20. ++ INDICATES 6.3V A-C BETWEEN PINS.
21. ± INDICATES 500V A-C BETWEEN PINS.
22. ** INDICATES 2.5V A-C BETWEEN PINS.
23. ALL VOLTAGES ARE POSITIVE UNLESS OTHERWISE SPECIFIED.
24. STRAP PINS N AND S TOGETHER FOR VOLTAGE MEASUREMENTS. UNLESS OTHERWISE SPECIFIED, MEASURE TO PIN S. REMOVE STRAP UPON COMPLETION.

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381345 O - 56 (In pocket)





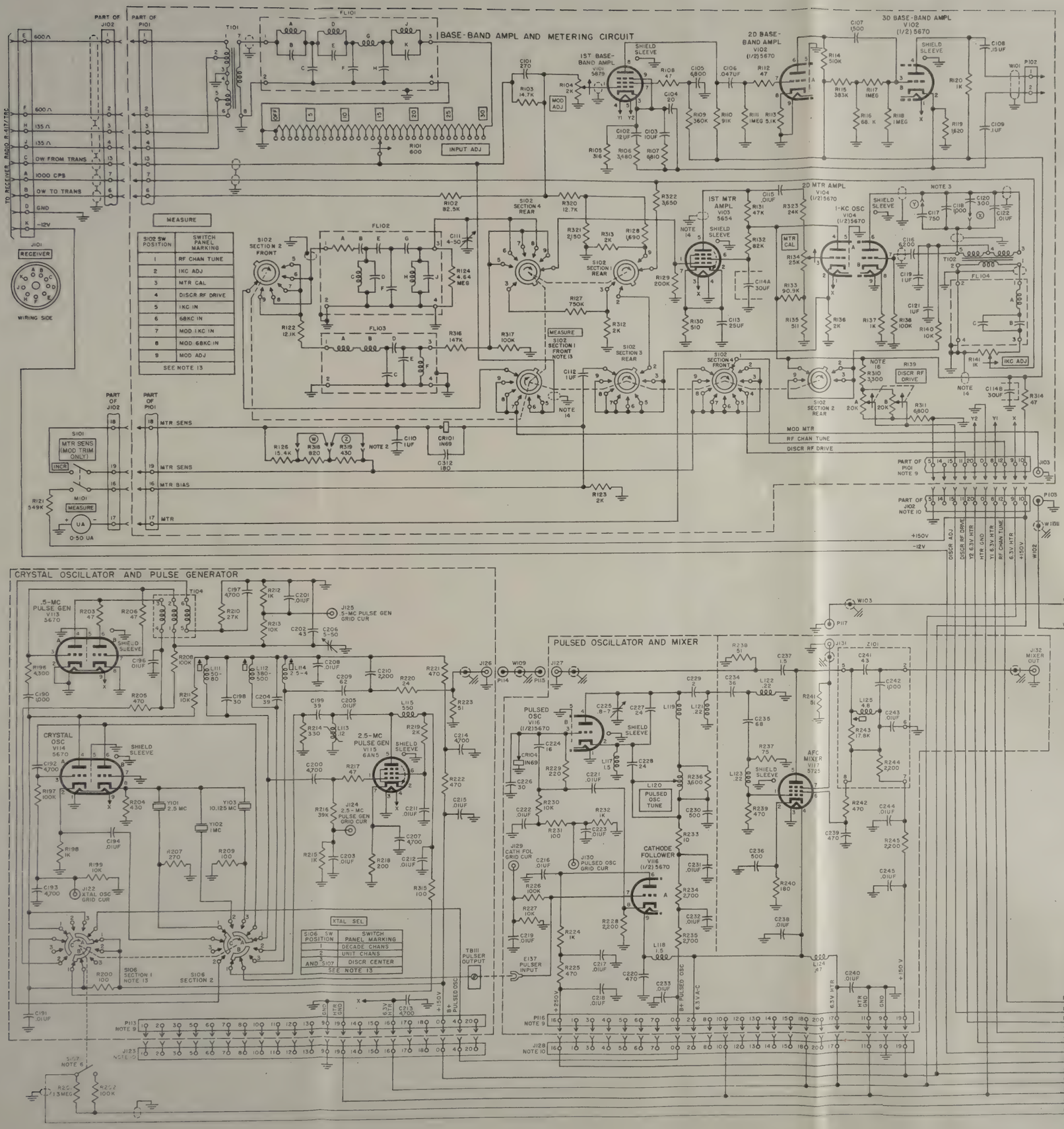
NOTES:

1. APPLY 115V A-C INPUT WHEN MEASURING VOLTAGES; DISCONNECT 115V A-C MEASURING RESISTANCES.
2. NC INDICATES NO CONNECTION.
3. ALWAYS CONNECT NEGATIVE TERMINAL OF VOLTMETER TO TEST JACK J5 WHEN MEASURING VOLTAGE.
4. ON SOME PLUG-IN ASSEMBLIES ON ORDER NO. 16881I-PHILA-51 TEST JACK J5 IS NOT CONNECTED TO CHASSIS. RESISTANCE MEASUREMENTS DEPEND ON THE ABOVE AND WILL ALSO VARY WITH LEAKAGE RESISTANCE.
5. VOLTAGES MEASURED FROM JACKS J7, J8, J9 AND J10 TO JACK J14 VARY WITH THE D-C LOAD BUT SHOULD BE APPROXIMATELY EQUAL TO EACH OTHER.
6. ADJUST 150V ADJ CONTROL TO NORMAL POSITION.
7. ADJUST 150V ADJ CONTROL TO EXTREME COUNTER-CLOCKWISE POSITION.
8. ADJUST 150V ADJ COUNTROL TO EXTREME CLOCKWISE POSITION.
9. ALLOW 10 MINUTES FOR OHMMETER TO CHARGE CAPACITORS BEFORE READING.
10. MEASURE TO JACK J16.
11. VOLTAGE VARIES WITH 150V ADJ CONTROL.
12. MEASURE TO JACK J6.
13. MEASURE TO JACK J7.
14. MEASURE TO JACK J12.
15. MEASURE TO JACK J10.
16. * INDICATES 64V A-C BETWEEN PINS.
17. ** INDICATES 5.1V A-C BETWEEN PINS.
18. *** INDICATES 2.7V A-C BETWEEN PINS.
19. + INDICATES 5.1V D-C BETWEEN PINS.
20. ++ INDICATES 6.3V A-C BETWEEN PINS.
21. * INDICATES 500V A-C BETWEEN PINS.
22. * * INDICATES 2.5V A-C BETWEEN PINS.
23. ALL VOLTAGES ARE POSITIVE UNLESS OTHERWISE SPECIFIED.
24. STRAP PINS N AND S TOGETHER FOR VOLTAGE MEASUREMENTS. UNLESS OTHERWISE SPECIFIED, MEASURE TO PIN S. REMOVE STRAP UPON COMPLETION.

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Figure 199. Power Supply PP-685/TRC, voltage and resistance diagram.

381345 O - 56 (In pocket)



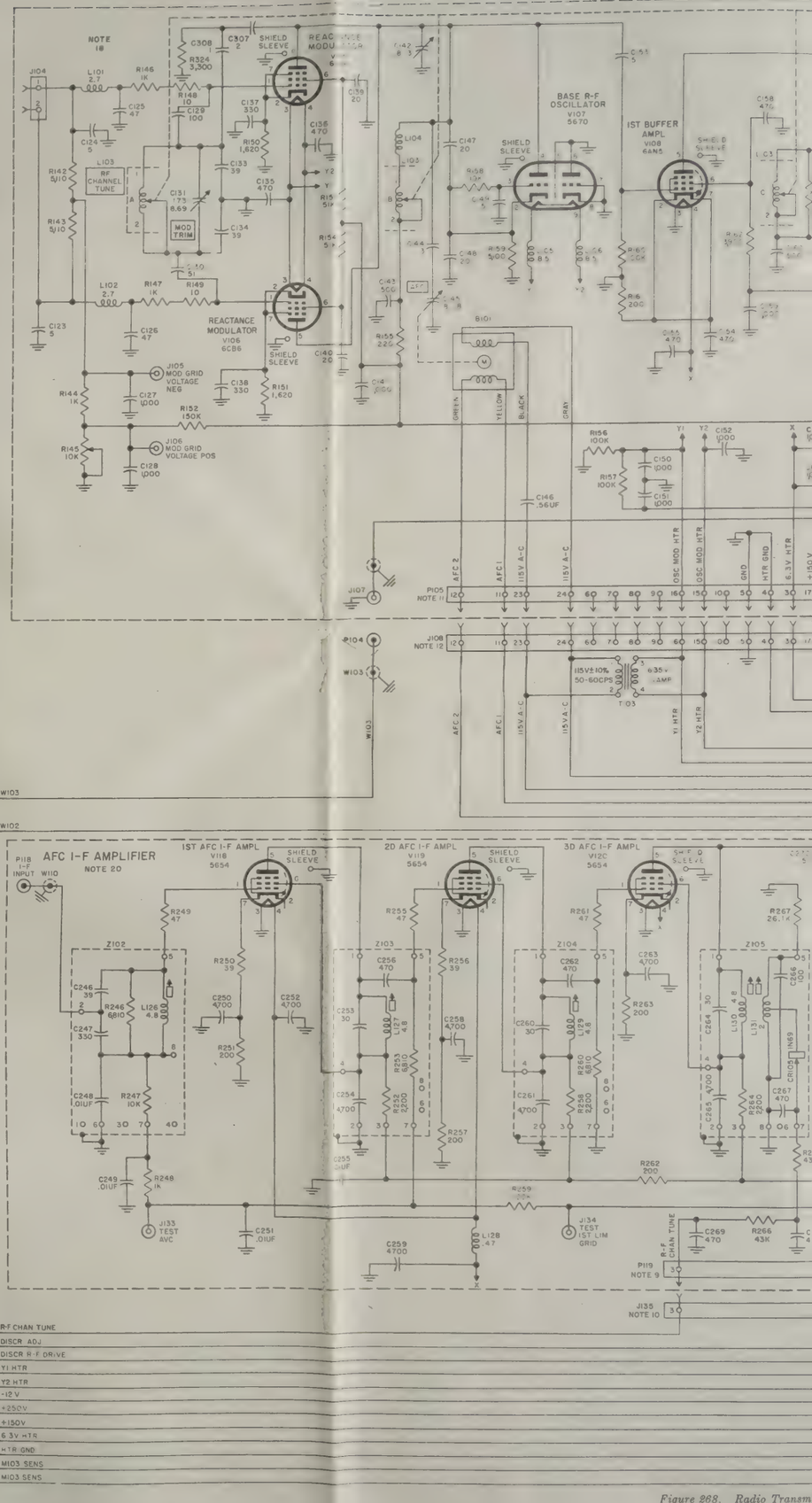


Figure 268. Radio Transm

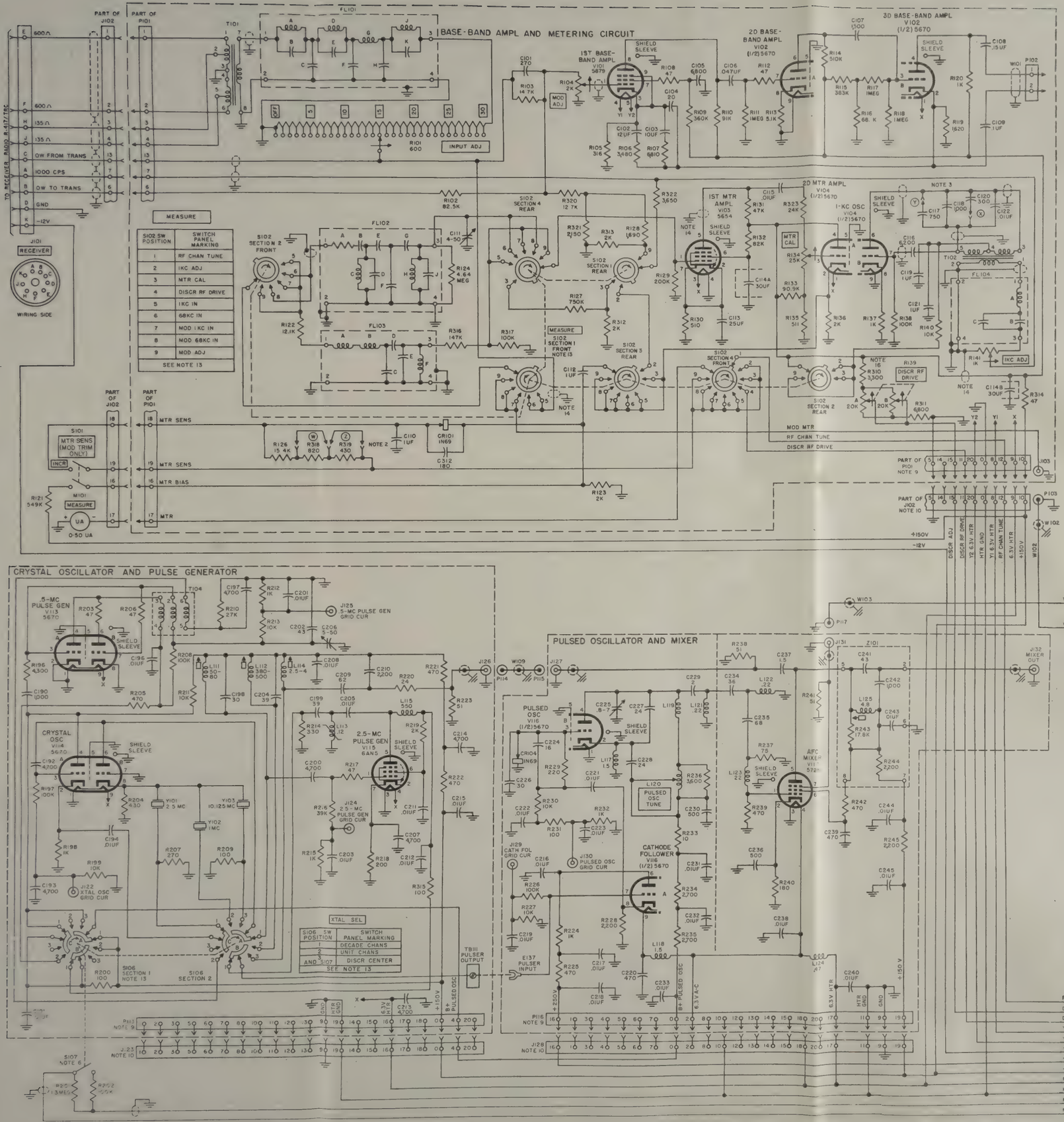


Figure 268. Radio Transm

R-F EXCITER

2D BUFFER AMPL V109 6AN5

DRIVER V110 4X150A

DRIVER OUTPUT COUPLING

DRIVER TUNE

BASE KEY

AMPLIFIER RADIO FREQUENCY AM-912/TRC 100-225MC OR AMPLIFIER-MULTIPLIER RADIO FREQUENCY AM-915/TRC 225-400MC

R-F OUTPUT P5

R-F INPUT P1

P2 NOTE 11

DUMMY FILTER P101 W101 P102

NOTE 7

FILTER, BAND-PASS F-192/U TO F-197/U F-198/U TO F-204/U P2 P1

DC101 DIRECTIONAL COUPLER

ANTENNA J121

SEE NOTE 4

CR102 1N21B CR103 1N21B

J118 J119 J120

ALARM CIRCUIT

1ST ALARM AMPL V111 5654

2D ALARM AMPL V112 5670

SHIELD SLEEVE

R191 500 THRESHOLD ADJ

I101 LOW PWR ALARM

I102 AC

S105 ALARM NOR OFF REV

P111 P112 C186 C187 R194 470 R195 470

P107 NOTE 9

J115 NOTE 10

FWD PWR THRESH ADJ +150V REFL PWR REFL PWR MTR GND HTR GND 6.3V HTR ALM NOR ALM REV +250V

TEST

S104 SW POSITION	SW PANEL MARKING
1	OSC MOD PLATE
2	DRIVER GRID
3	DRIVER CATH
4	MULT GRID
5	MULT CATH
6	PWR AMPL GRID
7	PWR AMPL CATH
8	FWD PWR
9	REFL PWR
SEE NOTE 13	

J112 J113 NOTE 12

SCR ADJ HTR GND INTERLOCK RET INTERLOCK 6.3V HTR +750V 2.5V HTR 200V-350V PWR AMPL GRID MULT GRID PWR AMPL CATH MULT CATH

S103 SEE NOTE 5

M102 TEST 0-50UA

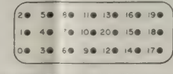
S104 SECTION 2 S104 SECTION 1 SEE NOTE 13

W104 DRIVER OUT

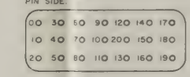
750 V
+150 V
6.3V HTR
HTR GND
Y2 HTR
Y1 HTR
115V A-C
115V A-C
AFC-1
AFC-2

NOTES

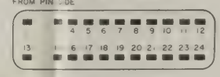
1. UNLESS OTHERWISE SHOWN: RESISTORS ARE IN OHMS, RELAY WINDINGS ARE IN OHMS, INDUCTORS ARE IN UH, CAPACITORS ARE IN UUF
2. RESISTORS R316 AND R319 ARE STRAPPED WITH W AND/OR Z WIRING TO OBTAIN PROPER METER CALIBRATION.
3. CAPACITORS C117 AND C120 ARE WIRED IN WITH Y AND/OR X WIRING FOR PROPER TUNING OF I-KC OSCILLATOR
4. CAPACITORS C181, C182, C184 AND A AND G OF DC101 ARE CONSTRUCTED PARTS.
5. SWITCH S103 IS OPERATED AUTOMATICALLY BY THE INSERTION OF THE R-F TUNER THE SWITCH IS OPEN FOR AMPLIFIER RADIO FREQ AM-912/TRC IT IS CLOSED FOR AMPLIFIER-MULTIPLIER RADIO FREQ AM-915/TRC
6. SWITCH S102 IS GANGED TO XTAL SEL SWITCH AND IS CLOSED WHEN XTAL SEL SWITCH IS IN DISCR CENTER POSITION. IT IS OPEN WHEN XTAL SEL SWITCH IS IN DECADE CHANS OR UNIT CHANS POSITIONS
7. EITHER THE DUMMY FILTER OR THE BAND-PASS FILTER IS CONNECTED IN THE CIRCUIT. THE FILTER CLOSES S111
8. SWITCH S112 IS A CENTRIFUGAL SWITCH LOCATED WITHIN THE HOUSING OF THE BLOWER MOTOR.
9. CONNECTORS P101, P107, P113, P116, P119, P120, AND J140 VIEWED FROM PIN SIDE.



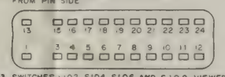
10. CONNECTORS J102, J115, J123, J128, J135, J137, AND P121 VIEWED FROM PIN SIDE.



11. CONNECTORS P105 AND P2 VIEWED FROM PIN SIDE



12. CONNECTORS J108 AND J113 VIEWED FROM PIN SIDE



13. SWITCHES S102, S104, S106 AND S109 VIEWED FROM KNOB ENDS AND SHOWN IN POSITIONS RF CHANNEL, OSC MOD PLATE, DECADE CHANS, ODD CHANNELS RESPECTIVELY. SWITCH POSITION NUMBERS ARE ARBITRARILY ASSIGNED. SEE WIRING ASSEMBLY FOR COORDINATION OF SWITCH POSITION WITH CONTACT NUMBERS
14. SHIELDS USED ON TYPE 3 BASE-BAND AMPLIFIERS ON ORDER NO. 16811-PHILA-51
15. C312 USED ON TYPE 4 METERING CIRCUITS ON ORDER NO. 16811-PHILA-51.
16. R310 IS 3.3K ON TYPE 1 BASE-BAND AMPLIFIERS ON ORDER NO. 16811-PHILA-51
17. C311 USED ON TYPE 4 R-F EXCITERS ON ORDER NO. 16811-PHILA-51. AND ON ORDER NO. 32146-PHILA-5.
18. R148 AND R149 NOT USED ON TYPE 5 R-F EXCITERS ON ORDER NO. 16811-PHILA-51. ALSO JUNCTION OF R142 AND R143 IS GROUNDED, AND C128, C129, J105, J106, R144, R145, AND R142 USED ONLY ON EARLY EQUIPMENT (ORDER NO. 16811-PHILA-51)
19. R295, R299, R300, R301, R302 AND R303 ARE 549K, 12.1K, 82.5K, 5110, 10K AND 5110 OHMS, RESPECTIVELY ON ORDER NO. 16811-PHILA-51 (SERIAL NUMBERS 65 AND ABOVE) AND ON ORDER NO. 32146-PHILA-51
20. ALL AFC UNITS ARE INTERCHANGEABLE

2D AFC LIMITER V122 6AN5

1ST AFC LIMITER V121 5654

AFC DISCR V123 5726

DISCR CENTER

Z106 Z107

J136 2D LIM TEST

W102

AFC UNIT

60-CPS MODULATOR V124 (1/2)5751

1ST 60-CPS AMPL V125 (1/2)5670

2D 60-CPS AMPL V125 (1/2)5670

T105

J138 AFC BALANCE

J139 GND

P120 NOTE 9

J137 NOTE 10

HTR GND 6.3V HTR AFC GND FREQ ERROR INPUT GND +150V AFC MOTOR CONTROL

S108 AFC ON OFF

SW S109 POSITION	SW PANEL MARKING
1	ODD CHANNELS
2	EVEN CHANNELS
SEE NOTE 13	

FREQ DRIFT M103 50-0-50

P121 NOTE 10

J140 NOTE 9

S109 NOTE 13 PULSED OSC SECTION 1 FRONT SECTION 1 REAR

S111 ANT FILTER INTERLOCK

S110 SIDE PANEL INTERLOCK

J141 WIRING SIDE

TB121 TB122 TB123

B102 BLOWER MOTOR

S112 NOTE 8

C309 .0200 C310 .0200

J142 GND

150V NEG RET 750V NEG RET GND +200 TO 350V 2.5V HTR 2.5V HTR 6.3V HTR 6.3V HTR GND +750V SCR ADJ 6.3V HTR 6.3V HTR GND +150V +250V -12V INTERLOCK INTERLOCK RET 115V A-C 115V A-C

J141 POWER SUPPLY

TO POWER SUPPLY PP-685/TRC

Y1 HTR
Y2 HTR
-12V
+250V
+150V
6.3V HTR
HTR GND
M103-SENS
M103-SENS

...er T-302/TRC, schematic diagram.

TM687-391

381345 O - 56 (In pocket)

R-F EXCITER

2D BUFFER AMPL V109 6AN5

DRIVER OUTPUT COUPLING

DRIVER V110 4X150A

AMPLIFIER
RADIO FREQUENCY AM-912/TRC 100-225MC
OR
AMPLIFIER-MULTIPLIER
RADIO FREQUENCY AM-915/TRC 225-400MC

R-F OUTPUT P5

R-F INPUT P1

P2 NOTE 11

DUMMY FILTER P101 W101 P102

NOTE 7

FILTER, BAND-PASS
F-192/U TO F-197/U
F-199/U TO F-204/U
P2 P1

DC101 DIRECTIONAL COUPLER

ANTENNA J121

SEE NOTE 4

CR102 1N21B CR103 1N21B

J118 J119 J120

ALARM CIRCUIT

1ST ALARM AMPL V111 5654

2D ALARM AMPL V112 5670

SHIELD SLEEVE

R191 500 THRESHOLD ADJ

I101 LOW PWR ALARM

I102 AC

S105 ALARM NOR OFF REV

P111 P112

C186 R194 470 C187 R195 470

NOTES

1. UNLESS OTHERWISE SHOWN: RESISTORS ARE IN OHMS, RELAY WINDINGS ARE IN OHMS, INDUCTORS ARE IN UH, CAPACITORS ARE IN UUF.
2. RESISTORS R318 AND R319 ARE STRAPPED WITH W AND/OR Z WIRING TO OBTAIN PROPER METER CALIBRATION.
3. CAPACITORS C117 AND C120 ARE WIRED IN WITH Y AND/OR X WIRING FOR PROPER TUNING OF 1-KC OSCILLATOR
4. CAPACITORS C181, C182, C184 A AND G OF DC101 ARE CONSTRUCTED PARTS.
5. SWITCH S105 IS OPERATED AUTOMATICALLY BY THE INSERTION OF THE R-F TUNER. THE SWITCH IS OPEN FOR AMPLIFIER RADIO FREQ AM-912/TRC. IT IS CLOSED FOR AMPLIFIER-MULTIPLIER RADIO FREQ AM-915/TRC.
6. SWITCH S107 IS GANGED TO XTAL SEL SWITCH AND IS CLOSED WHEN XTAL SEL SWITCH IS IN DISCR CENTER POSITION. IT IS OPEN WHEN XTAL SEL SWITCH IS IN DECADE CHANS OR UNIT CHANS POSITION.
7. EITHER THE DUMMY FILTER OR THE BAND-PASS FILTER IS CONNECTED IN THE CIRCUIT. THE FILTER CLOSES S111.
8. SWITCH S112 IS A CENTRIFUGAL SWITCH LOCATED WITHIN THE HOUSING OF THE BLOWER MOTOR.
9. CONNECTORS P101, P107, P113, P116, P118, P120, AND J140 VIEWED FROM PIN SIDE.

2 5 8 11 13 16 19
1 4 7 10 20 15 18
0 3 6 9 12 14 17

10. CONNECTORS J102, J115, J123, J128, J135, J137, AND P121 VIEWED FROM PIN SIDE.

00 30 50 90 120 140 170
10 40 70 100 200 150 180
20 50 80 110 130 160 190

11. CONNECTORS P105 AND P2 VIEWED FROM PIN SIDE

1 2 3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24

12. CONNECTORS J108 AND J113 VIEWED FROM PIN SIDE

13 14 15 16 17 18 19 20 21 22 23 24
1 2 3 4 5 6 7 8 9 10 11 12

13. SWITCHES S102, S104, S106 AND S109 VIEWED FROM KNOB ENDS AND SHOWN IN POSITIONS RF CHAN TUNE, OSC MOD PLATE, DECADE CHANS, ODD CHANNELS RESPECTIVELY. SWITCH POSITION NUMBERS ARE ARBITRARILY ASSIGNED. SEE WIRING ASSEMBLY FOR COORDINATION OF SWITCH POSITION WITH CONTACT NUMBERS

4. SHIELDS USED ON TYPE 3 BASE-BAND AMPLIFIERS ON ORDER NO. 16811-PHILA-51
15. C312 USED ON TYPE 4 METERING CIRCUITS ON ORDER NO. 16811-PHILA-51.
16. R310 IS 3.3K ON TYPE 1 BASE-BAND AMPLIFIERS ON ORDER NO. 16811-PHILA-51.
17. C311 USED ON TYPE 4 R-F EXCITERS ON ORDER NO. 16811-PHILA-51, AND ON ORDER NO. 32146-PHILA-51
18. R148 AND R149 NOT USED ON TYPE 5 R-F EXCITERS ON ORDER NO. 16811-PHILA-51. ALSO JUNCTION OF R142 AND R143 IS GROUNDED, AND C128, C129, J105, J106, R144, R145, AND R142 USED ONLY ON EARLY EQUIPMENT (ORDER NO. 16811-PHILA-51)
19. R295, R299, R300, R301, R302 AND R303 ARE 549K, (2.1K, 82.5K, 511Ω, 10K AND 511Ω OHMS, RESPECTIVELY ON ORDER NO. 16811-PHILA-51 (SERIAL NUMBERS 65 AND ABOVE) AND ON ORDER NO. 32146-PHILA-51.
20. ALL AFC UNITS ARE INTERCHANGEABLE

S103 SEE NOTE 5

R189 15K R188 3K +150V

M102 TEST 0-50UA

S104 SECTION 2 SEE NOTE 13 S104 SECTION 1

S104 SW POSITION	SW PANEL MARKING
1	OSC MOD PLATE
2	DRIVER GRID
3	DRIVER CATH
4	MULT GRID
5	MULT CATH
6	PWR AMPL GRID
7	PWR AMPL CATH
8	FWD PWR
9	REFL PWR

SEE NOTE 13

W104 DRIVER OUT

750 V
A
+150 V
6.3V HTR
HTR GND
Y2 HTR
Y1 HTR
115V A-C
115V A-C
AFC-1
AFC-2

W102

1ST AFC LIMITER V121 5654

2D AFC LIMITER V122 6AN5

AFC DISCR V123 5726

DISCR CENTER

Z106 Z107

2D LIM TEST

AFC UNIT

60-CPS MODULATOR V124 (1/2)5751

1ST 60-CPS AMPL V125 (1/2)5670

2D 60-CPS AMPL V125 (1/2)5670

R297 1 MEG NOTE 19

J138 AFC BALANCE

J139 GND

S108 AFC ON OFF

P120 NOTE 9 J137 NOTE 10

AFC MOTOR CONTROL

FREQ DRIFT

M103 50-0-50

P121 NOTE 10

J140 NOTE 9

S109 NOTE 13 PULSED OSC

SECTION 1 FRONT

SECTION 1 REAR

SW S109 POSITION	SW PANEL MARKING
1	ODD CHANNELS
2	EVEN CHANNELS
SEE NOTE 13	

S111 ANT FILTER INTERLOCK

S110 SIDE PANEL INTERLOCK

J141 WIRING SIDE

TB121 TB122 TB123

B102 BLOWER MOTOR

S112 NOTE 8

J142 GND

150V NEG RET
750V NEG RET
GND
+200 TO 350V
2.5V HTR
2.5V HTR
6.3V HTR
6.3V HTR GND
+750V
SCR ADJ
6.3V HTR
6.3V HTR GND
+150V
+250V
-12V INTERLOCK
INTERLOCK RET
115V A-C
115V A-C

TO POWER SUPPLY PP-685/TRC

J141 POWER SUPPLY

Y1 HTR
Y2 HTR
-12V
+250V
+150V
6.3V HTR
HTR GND
M103 SENS
M103 SENS

r T-302/TRC, schematic diagram.

TM687-391

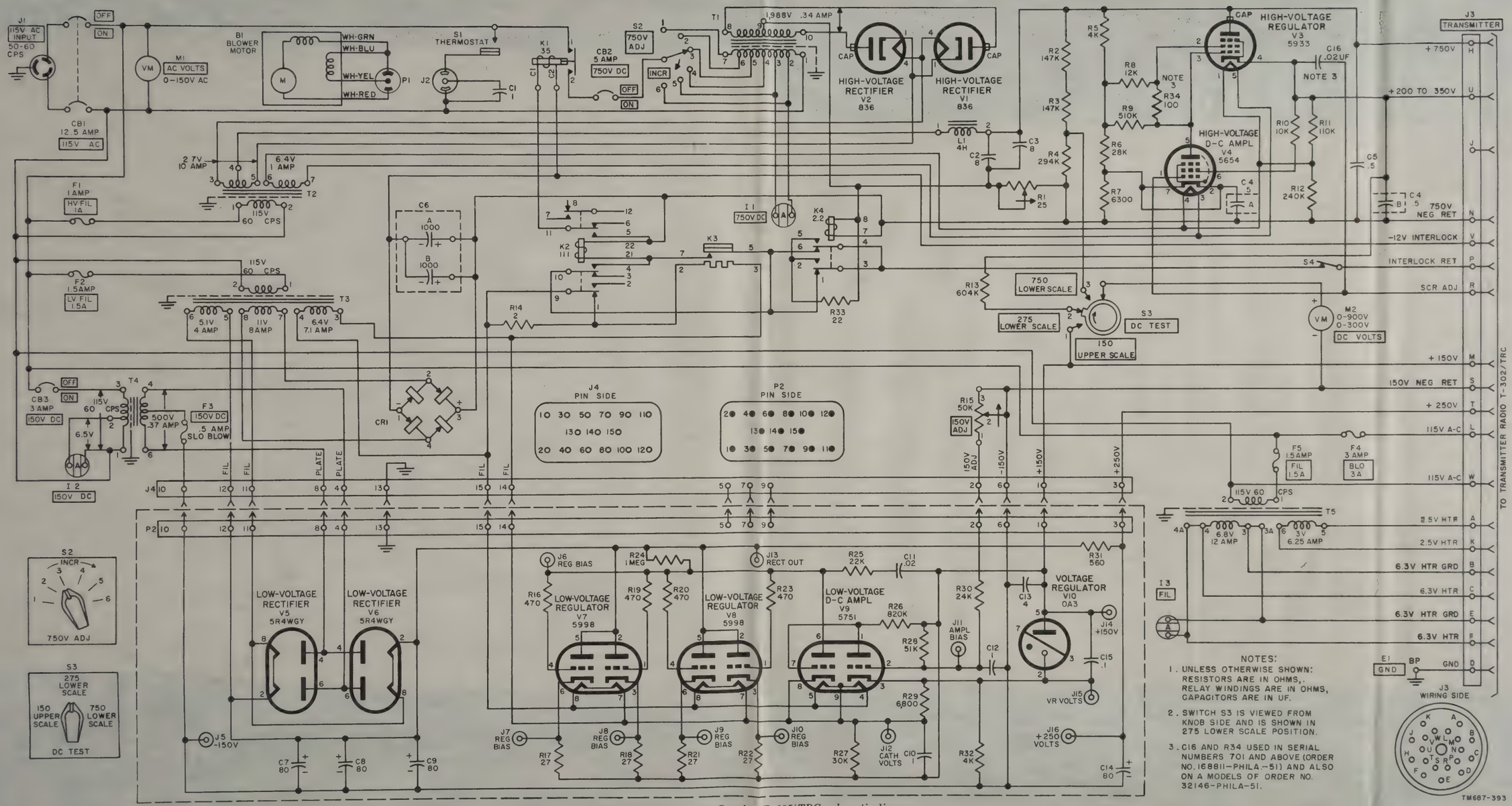


Figure 275. Power Supply PP-685/TRC, schematic diagram.

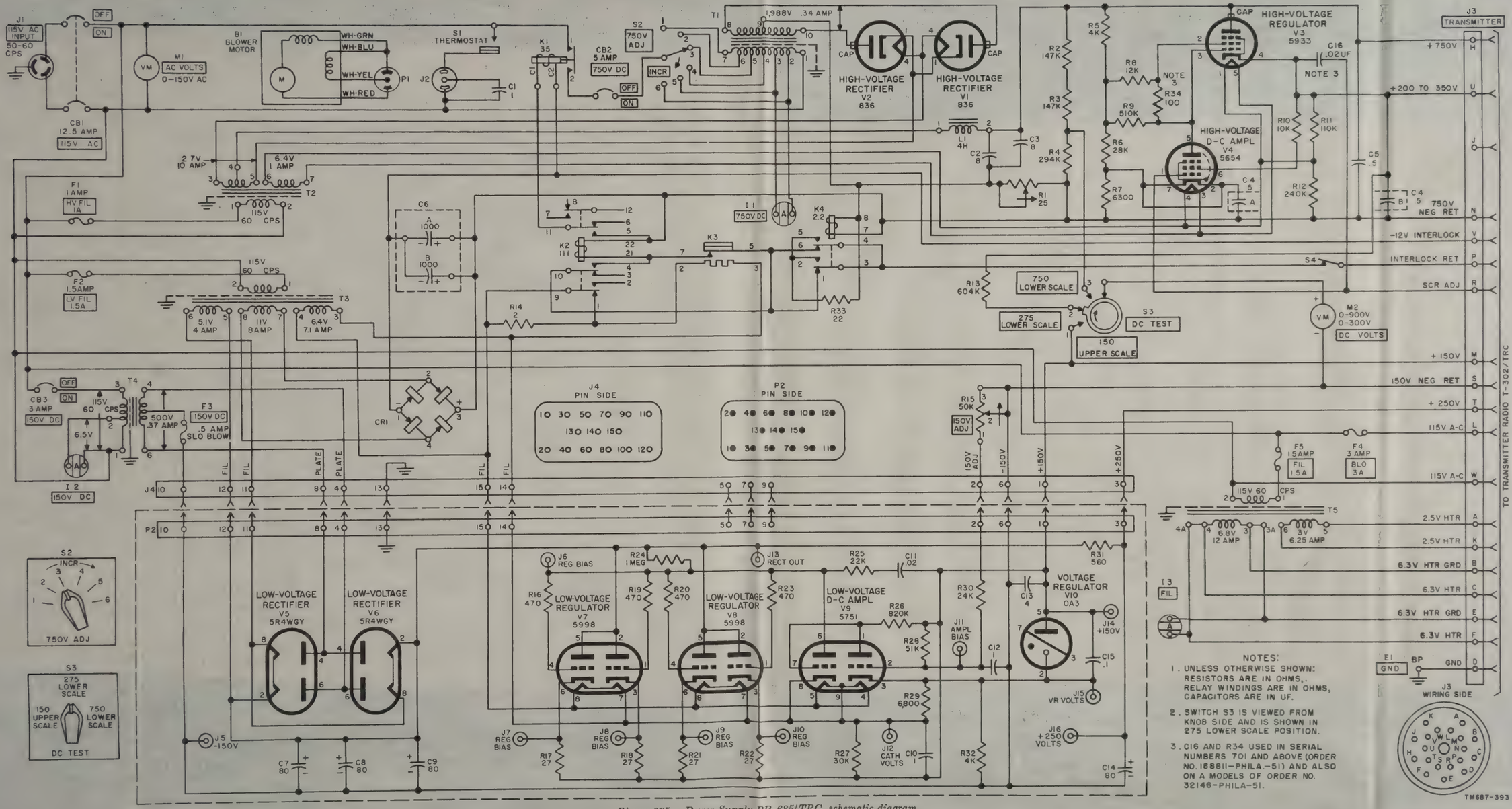


Figure 275. Power Supply PP-685/TRC, schematic diagram.

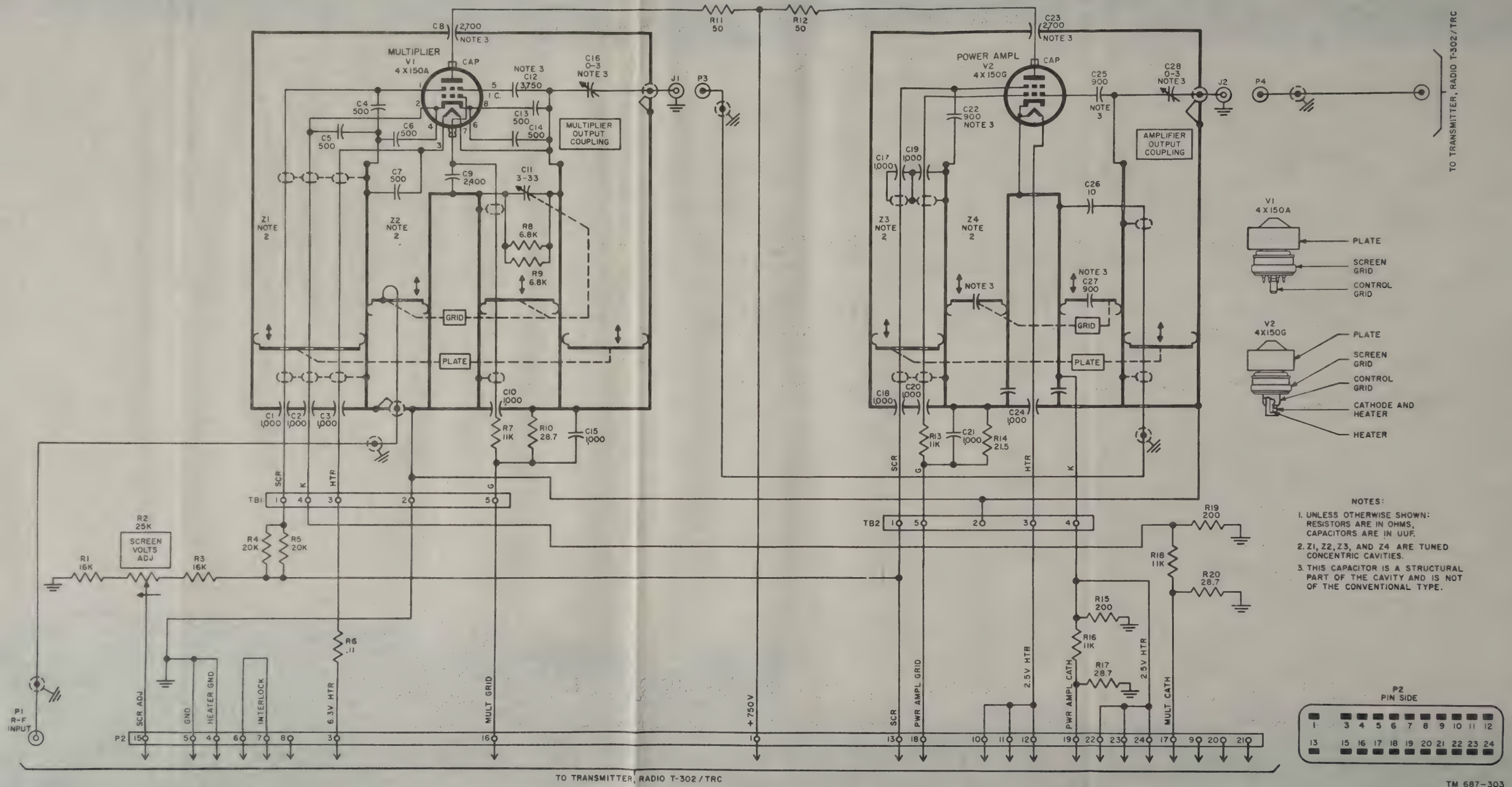


Figure 270. Radio Frequency Amplifier-Multiplier AM-915/TRC (transmitter C-band rf tuner), schematic diagram.

TM 687-303

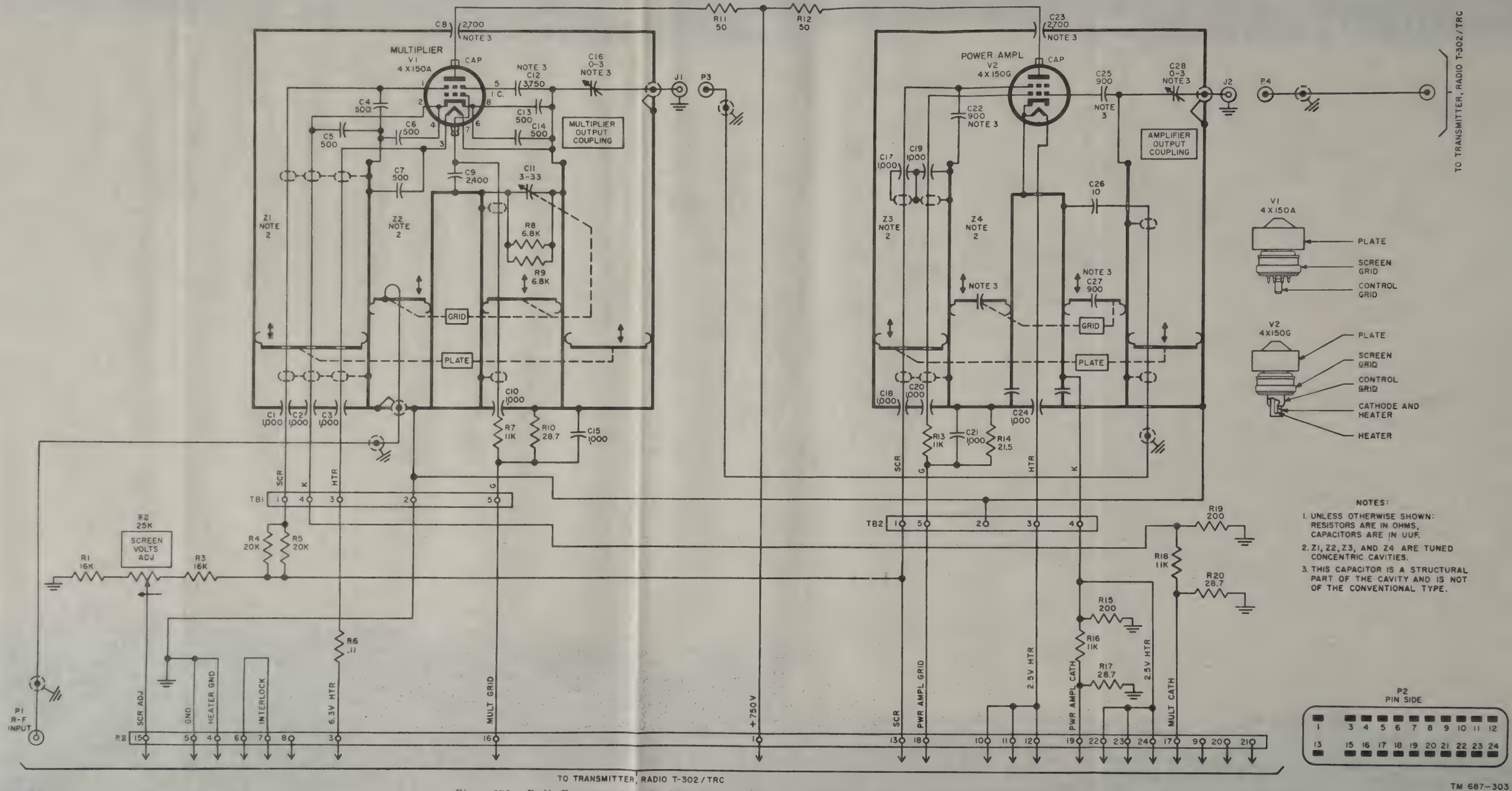
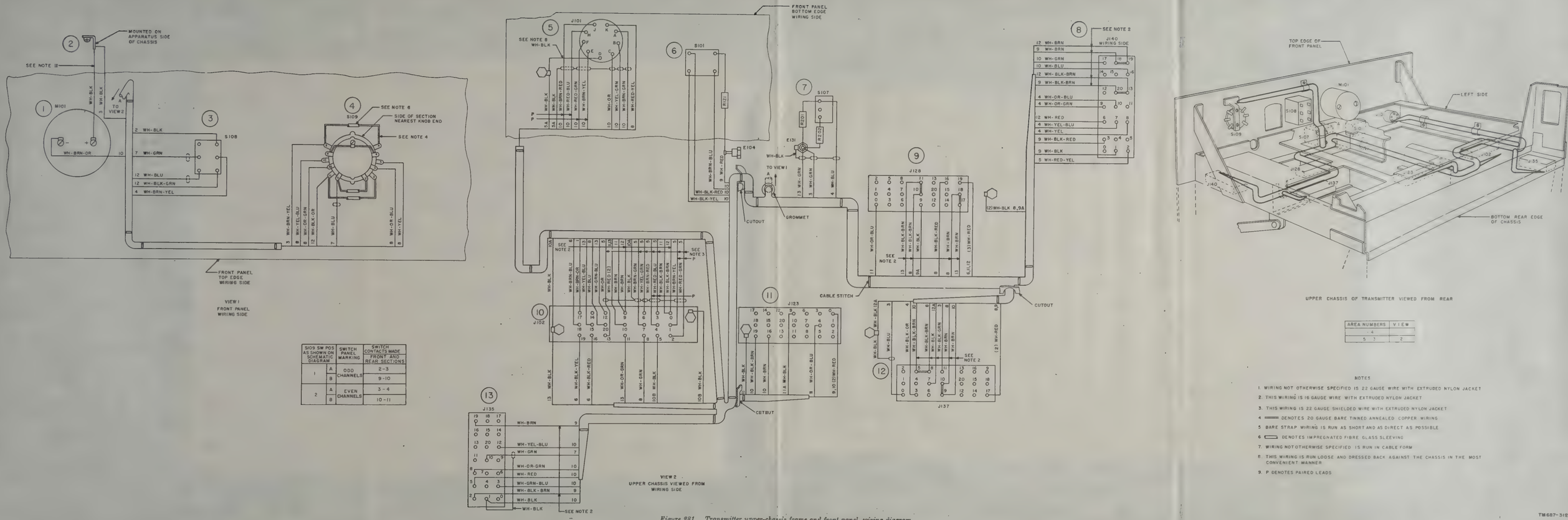


Figure 270. Radio Frequency Amplifier-Multiplier AM-915/TRC (transmitter C-band rf tuner), schematic diagram.

TM 687-303



S109 SW POS AS SHOWN ON SCHEMATIC DIAGRAM		SWITCH PANEL MARKING	SWITCH CONTACTS MADE FRONT AND REAR SECTIONS
1	A	ODD CHANNELS	2-3
	B		9-10
2	A	EVEN CHANNELS	3-4
	B		10-11

Figure 281. Transmitter upper-chassis frame and front panel, wiring diagram.

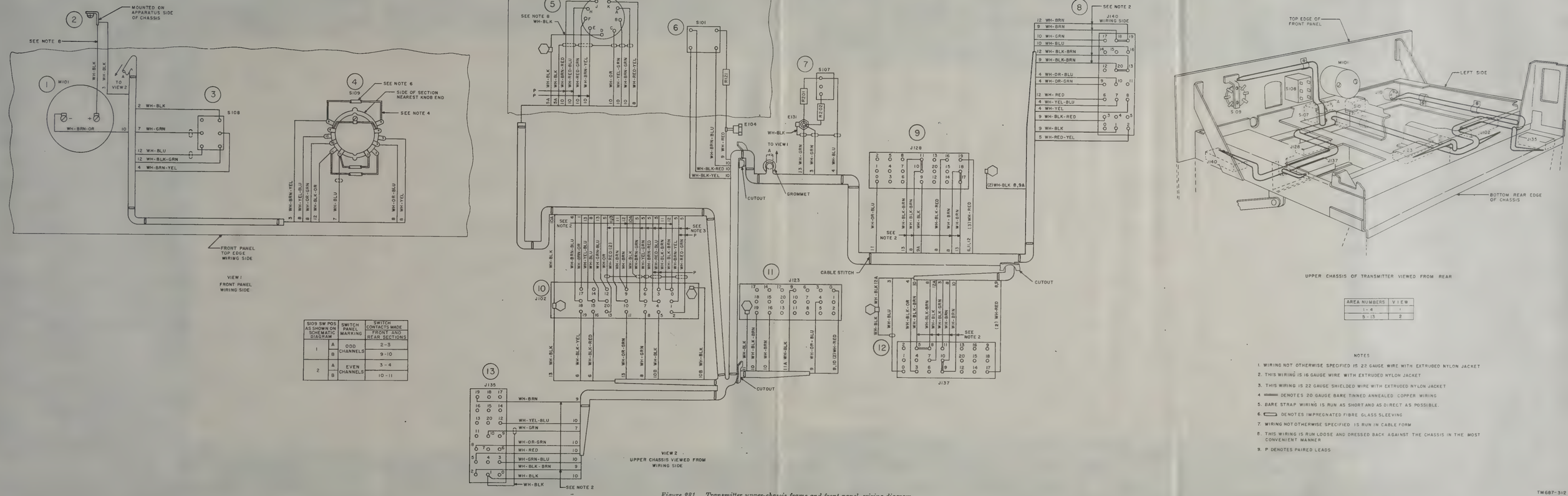
UPPER CHASSIS OF TRANSMITTER VIEWED FROM REAR

AREA NUMBERS	VIEW
4	
5 1 2	

NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3. THIS WIRING IS 22 GAUGE SHIELDED WIRE WITH EXTRUDED NYLON JACKET
4. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
6. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
7. WIRING NOT OTHERWISE SPECIFIED IS RUN IN CABLE FORM
8. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER
9. P DENOTES PAIRED LEADS

381345 O - 56 (In pocket)



S109 SW POS AS SHOWN ON SCHEMATIC DIAGRAM		SWITCH PANEL MARKING	SWITCH CONTACTS MADE FRONT AND REAR SECTIONS
1	A	ODD CHANNELS	2-3
	B		9-10
2	A	EVEN CHANNELS	3-4
	B		10-11

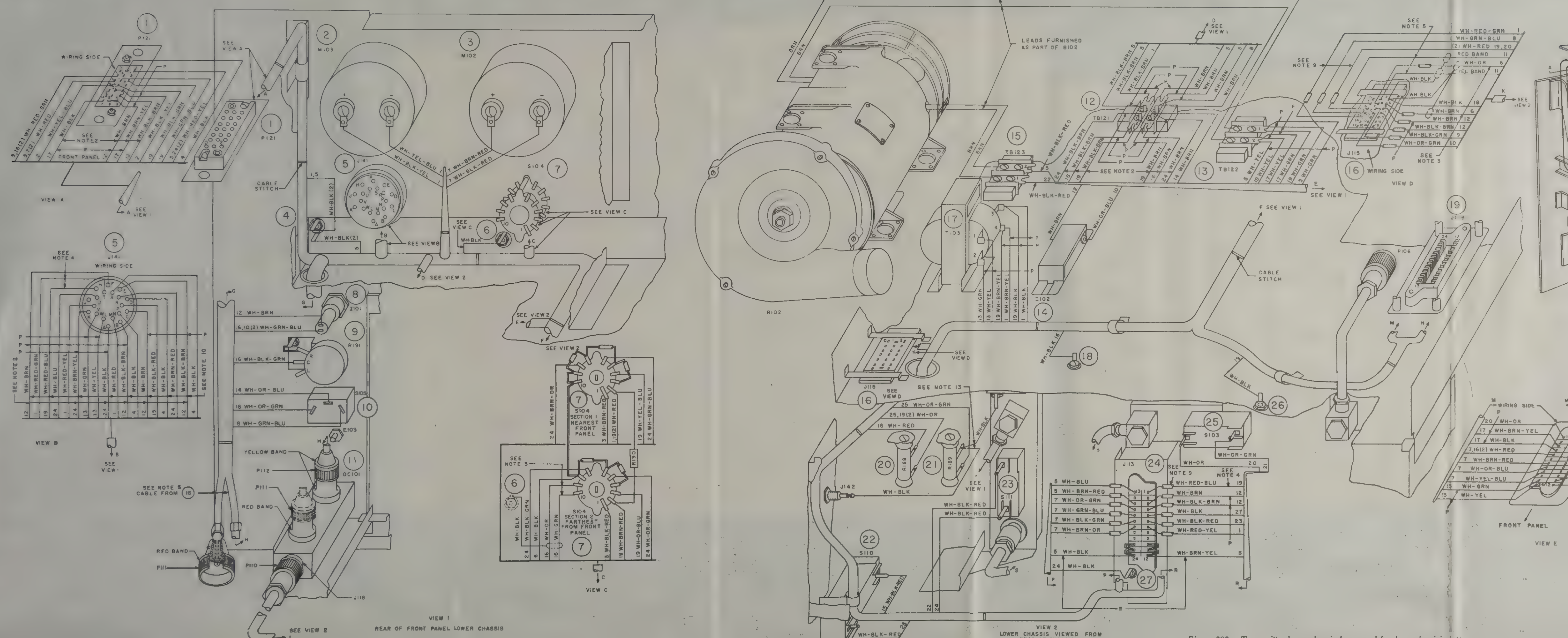
Figure 281. Transmitter upper-chassis frame and front panel, wiring diagram.

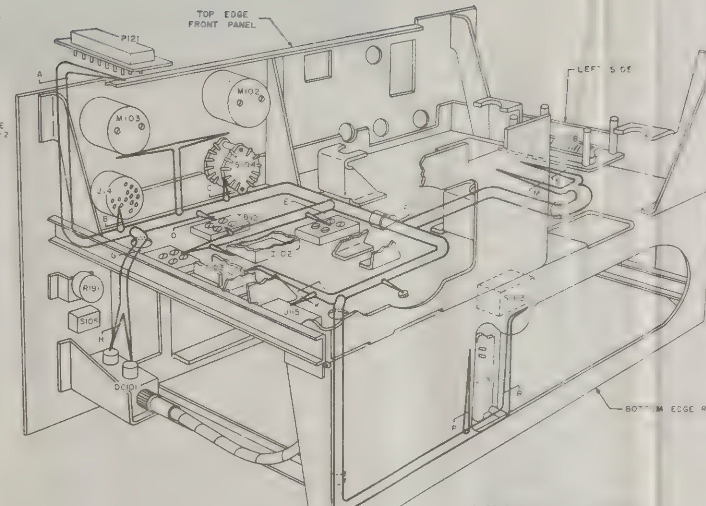
UPPER CHASSIS OF TRANSMITTER VIEWED FROM REAR

AREA NUMBERS	VIEW
1-4	1
5-13	2

NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3. THIS WIRING IS 22 GAUGE SHIELDED WIRE WITH EXTRUDED NYLON JACKET
4. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
7. WIRING NOT OTHERWISE SPECIFIED IS RUN IN CABLE FORM
8. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER
9. P DENOTES PAIRED LEADS





LOWER CHASSIS OF TRANSMITTER VIEWED FROM REAR

NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 6 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. THIS WIRING IS 22 GAUGE SHIELDED WIRE WITH EXTRUDED NYLON JACKET
4. THIS WIRING IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET AND 2,500 VOLT BREAKDOWN VOLTAGE
5. THIS WIRING IS RG-58A/U TWIN CONDUCTOR COAXIAL CABLE
6. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
7. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
8. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
9. TERMINALS TO WHICH THESE WIRES ARE CONNECTED ARE SLEEVED WITH 1/2 INCH LONG IMPREGNATED FIBRE GLASS SLEEVING
10. TERMINALS TO WHICH THESE WIRES ARE CONNECTED ARE SLEEVED WITH 3/4 INCH LONG IMPREGNATED FIBRE GLASS SLEEVING
11. P DENOTES PAIRED LEADS
12. WIRING NOT OTHERWISE SPECIFIED IS IN CABLE FORM
13. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER

AREA NUMBERS	VIEW
1-11	1
12-27	2

S104 SW POS AS SHOWN ON SCHEMATIC DIAGRAM	SW PANEL MARKING	SW CONTACTS MADE SECTION 1 AND 2
1	OSC MOD PLATE	10-1
2	DRIVER GRID	10-2
3	DRIVER CATH	10-3
4	MULT GRID	10-4
5	MULT CATH	10-5
6	PWR AMPL GRID	10-6
7	PWR AMPL CATH	10-7
8	FWD PWR	10-8
9	REFL PWR	10-9

Figure 282. Transmitter lower-chassis frame and front panel, wiring diagram.

381345 O - 56 (In pocket)

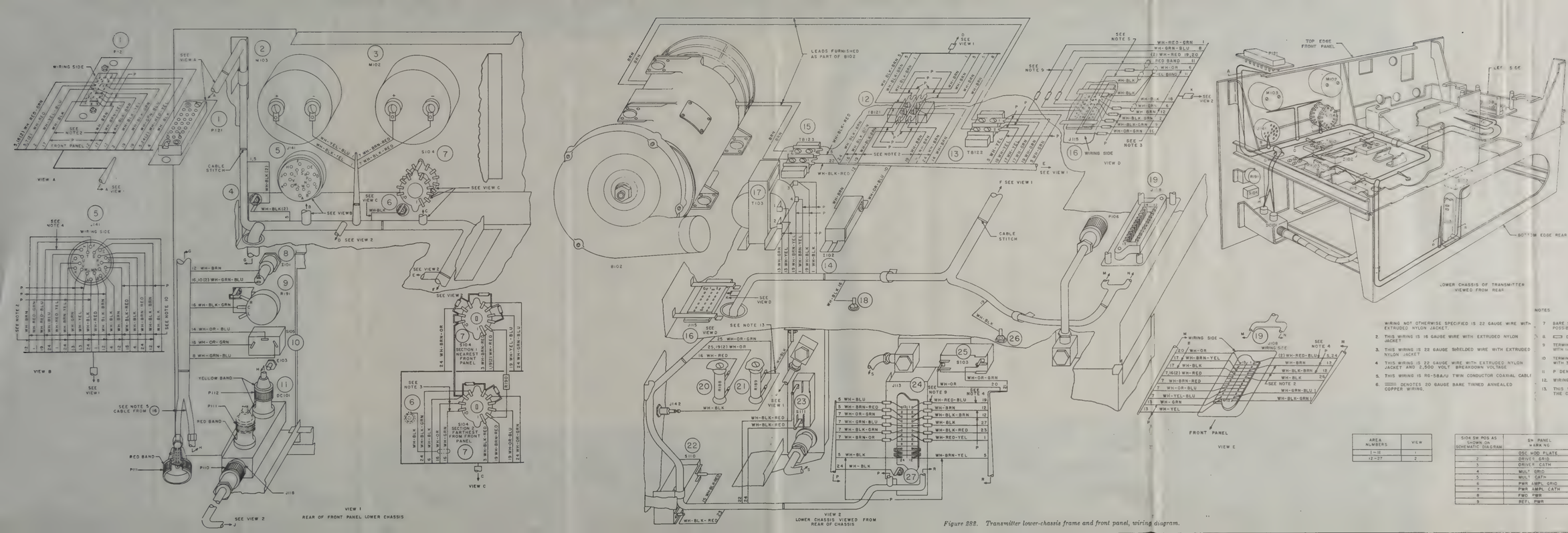


Figure 282. Transmitter lower-chassis frame and front panel, wiring diagram.

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3. THIS WIRING IS 22 GAUGE SHIELDED WIRE WITH EXTRUDED NYLON JACKET
4. THIS WIRING IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET AND 2,500 VOLT BREAKDOWN VOLTAGE
5. THIS WIRING IS RG-58A/U TWIN CONDUCTOR COAXIAL CABLE
6. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
7. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
8. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
9. TERMINALS TO WHICH THESE WIRES ARE CONNECTED ARE SLEEVED WITH 1/2 INCH LONG IMPREGNATED FIBRE GLASS SLEEVING.
10. TERMINALS TO WHICH THESE WIRES ARE CONNECTED ARE SLEEVED WITH 3/4 INCH LONG IMPREGNATED FIBRE GLASS SLEEVING.
11. P DENOTES PAIRED LEADS.
12. WIRING NOT OTHERWISE SPECIFIED IS IN CABLE FORM.
13. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.

AREA NUMBERS	VIEW
1 – 11	1
12 – 27	2

S104 SW POS AS SHOWN ON SCHEMATIC DIAGRAM	SW PANEL WIRING	SW CONTACTS MADE SECTION 1 AND 2
–	OSC MOD PLATE	10 –
2	DRIVER GRID	10 – 2
3	DRIVER CATH	10 – 3
4	MULT GRID	10 – 4
5	MULT CATH	0 – 5
6	PWR AMPL GRID	10 – 6
7	PWR AMPL CATH	10 – 7
8	FWD PWR	10 – 8
9	REFL PWR	10 – 9

TM 687-313

381345 O - 58 (In pocket)

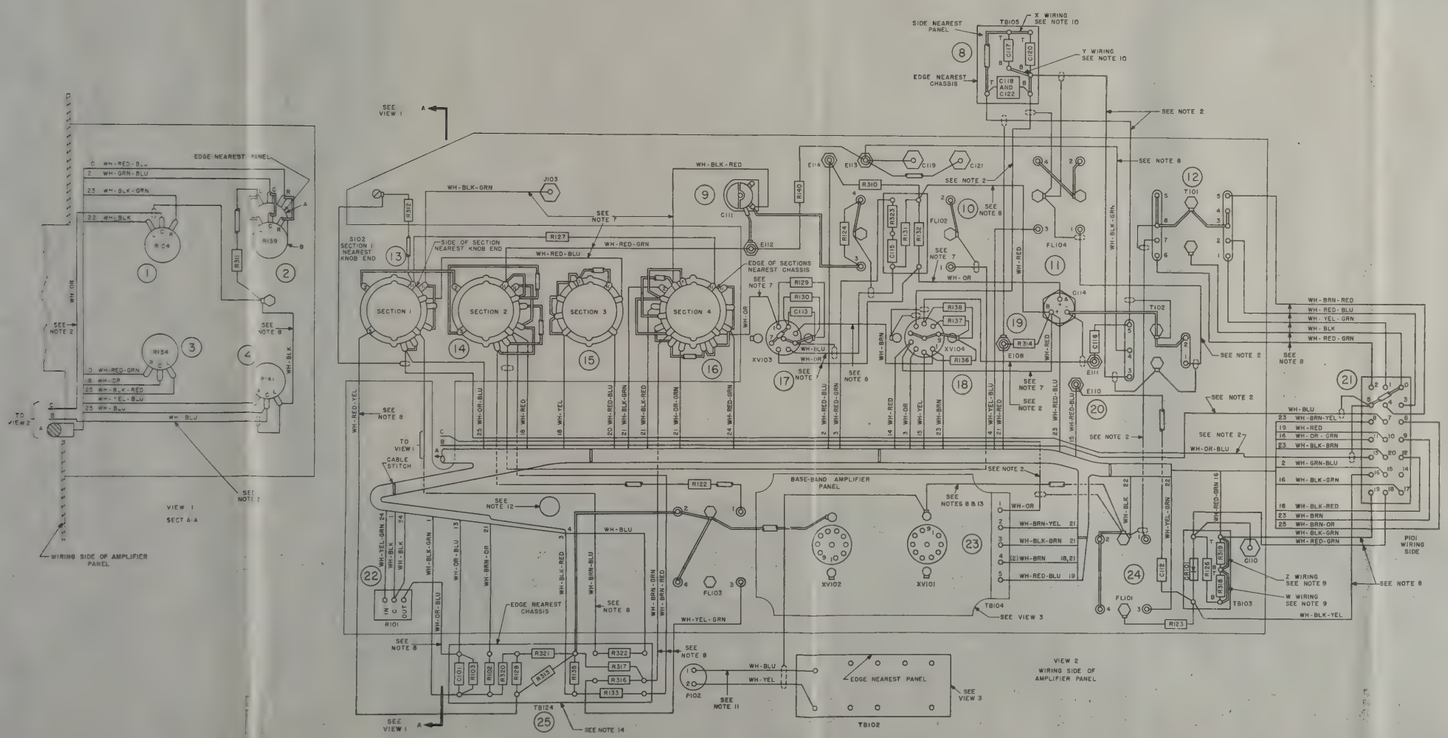
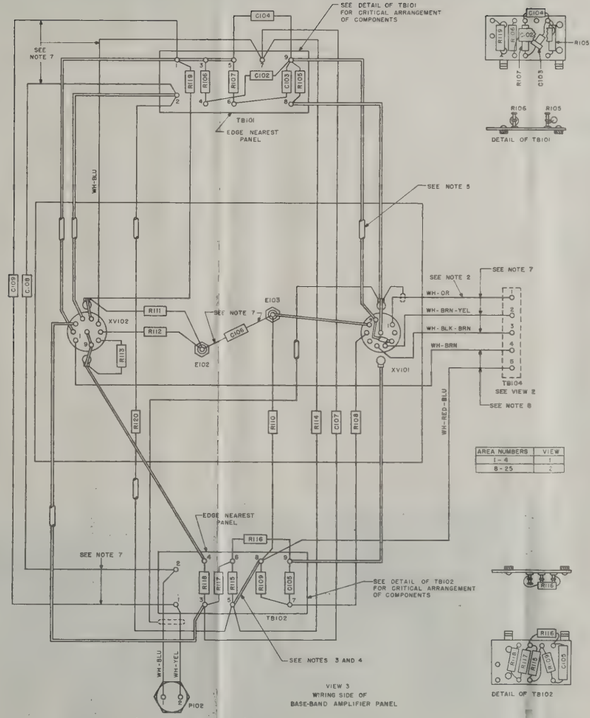
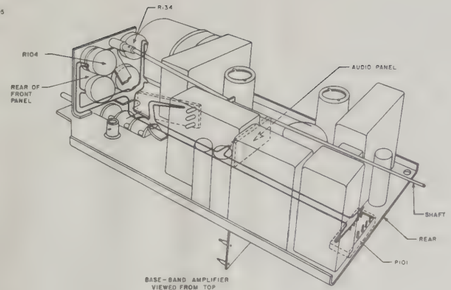


Figure 883. Transmitter base-band amplifier and metering circuit plug-in assembly, wiring diagram.





BASE-BAND AMPLIFIER VIEWED FROM TOP

AREA NUMBERS	VIEW
1-4	1
8-25	3

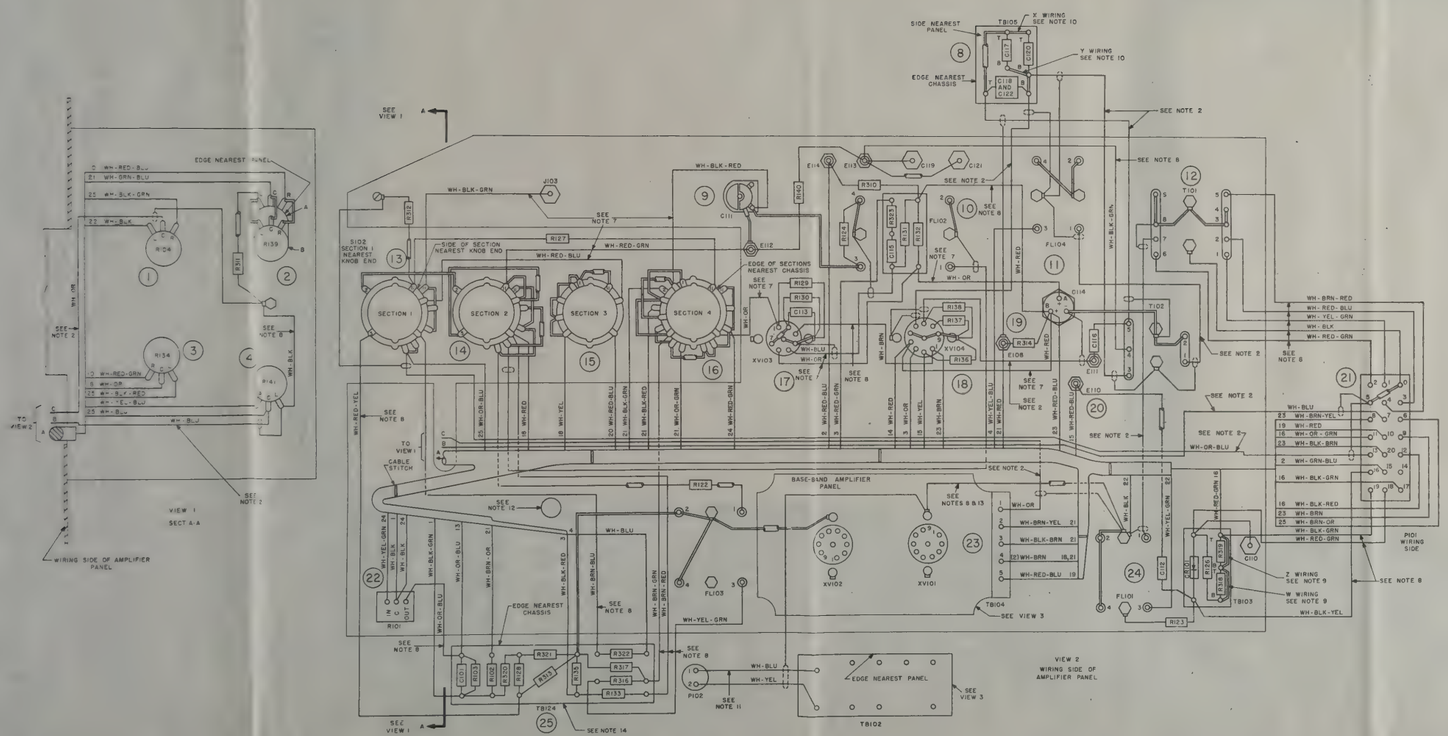
NOTES

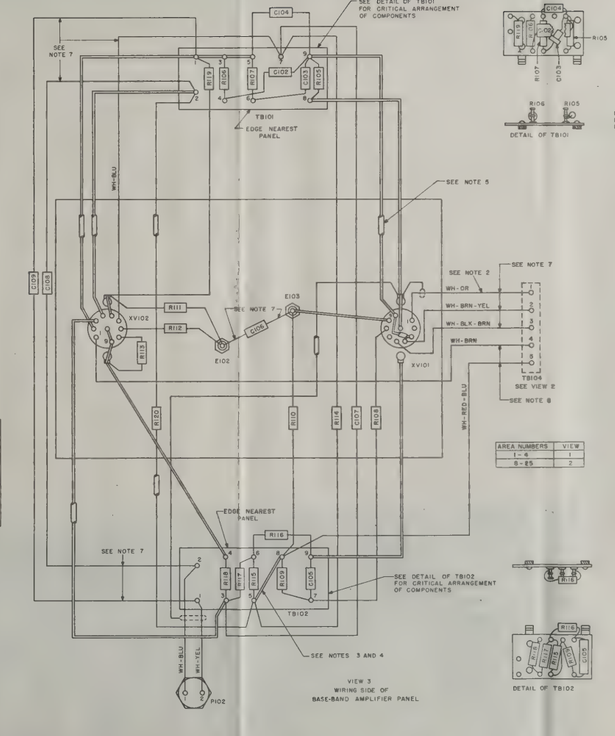
1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. THIS WIRING IS 22 GAUGE SHIELDED WIRE
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
6. WIRING NOT OTHERWISE SPECIFIED IS RUN IN CABLE FORM
7. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER
8. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
9. W AND/OR Z WIRING IS PROVIDED TO OBTAIN PROPER METER CALIBRATIONS
10. Y AND/OR X WIRING IS PROVIDED TO OBTAIN PROPER TUNING OF 1-KC OSCILLATOR.
11. THIS WIRE IS IN RF CABLE ASSEMBLY
12. ALL COMPONENTS, PLUS LEADS HAVE BEEN KEPT APPROXIMATELY 1/8 INCH AWAY FROM EDGE OF CABLE GROMMET HOLE.
13. SOME UNITS ARE FURNISHED WITH A WH-BLK LEAD
14. IN SOME UNITS THIS STRIP IS DESIGNATED AS TB123

SIDE SW POS AS SHOWN ON SCHEM DIAGRAM	SW PANEL MARKING	SW CONTACTS MADE							
		SECT 1		SECT 2		SECT 3		SECT 4	
		F	R	F	R	F	R	F	R
1	RF CHAN TUNE	—	—	—	—	—	—	2-3	—
2	KC ADJ	—	8-10	—	8-10	—	8-10	2-4	—
3	MTR Ca.	—	8-11	—	8	—	8-11	2-5	8
4	OSCR RF DRIVE	—	—	—	—	—	—	2-6	—
5	MAC IN	2-7	—	2-7	—	—	8-11	2-7	8-11
6	68KC IN	2-8	—	2-8	—	—	8-12	2-8	8-12
7	MOD MAC IN	2-9	—	2-9	—	—	8-13	2-9	8-13
8	MOD 68KC IN	2-10	—	2-10	—	—	8-14	2-10	8-14
9	MOD ADJ	2-11	8-5	2-11	8-5	—	8-5	2-11	8-5

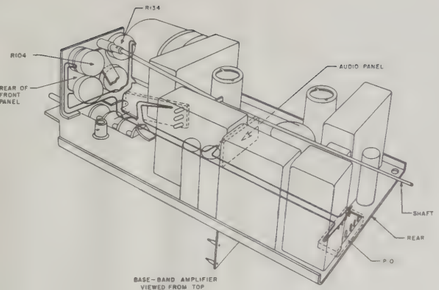
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381345 O - 56 (In pocket)





AREA NUMBERS	VIEW
1 - 4	1
5 - 25	2



NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. THIS WIRING IS 22 GAUGE SHIELDED WIRE
3. — DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
6. WIRING NOT OTHERWISE SPECIFIED IS RUN IN CABLE FORM
7. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER
8. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER
9. W AND/OR Z WIRING IS PROVIDED TO OBTAIN PROPER METER CALIBRATIONS
10. Y AND/OR X WIRING IS PROVIDED TO OBTAIN PROPER TUNING OF 1-KC OSCILLATOR.
11. THIS WIRE IS IN RF CABLE ASSEMBLY
12. ALL COMPONENTS, PLUS LEADS HAVE BEEN KEPT APPROXIMATELY 1/8 INCH AWAY FROM EDGE OF CABLE GROMMET HOLE
13. SOME UNITS ARE FURNISHED WITH A WH-BLK LEAD
14. IN SOME UNITS THIS STRIP IS DESIGNATED AS TB123

SIDE SW POS AS SHOWN ON SCHEM DIAGRAM	SW. PANEL MARKING	SW CONTACTS MADE							
		SECT 1		SECT 2		SECT 3		SECT 4	
		F	A	F	A	F	A	F	A
1	RF GRID TUNE	—	—	—	—	—	—	2-3	—
2	KC ADJ	—	9-10	—	8-10	—	8-10	2-4	—
3	MTR CAL	—	9-11	—	8-11	—	8-11	2-5	8-11
4	OSC & RF DRIVE	—	—	—	—	—	—	2-6	—
5	MC IN	2-7	—	2-7	—	—	8-12	2-7	8-11
6	68KC IN	2-8	—	2-8	—	—	8-12	2-7	8-12
7	MOD IND IN	2-9	—	2-9	—	—	8-13	2-9	8-13
8	MOD 68KC IN	2-10	—	2-10	—	—	8-14	2-10	8-14
9	MOD ADJ	2-11	8-5	2-11	8-5	—	8-5	2-11	8-5

TM 687-314

381345 O - 56 (In pocket)

Figure 233. Transmitter base-band amplifier and metering circuit plug-in assembly, wiring diagram.

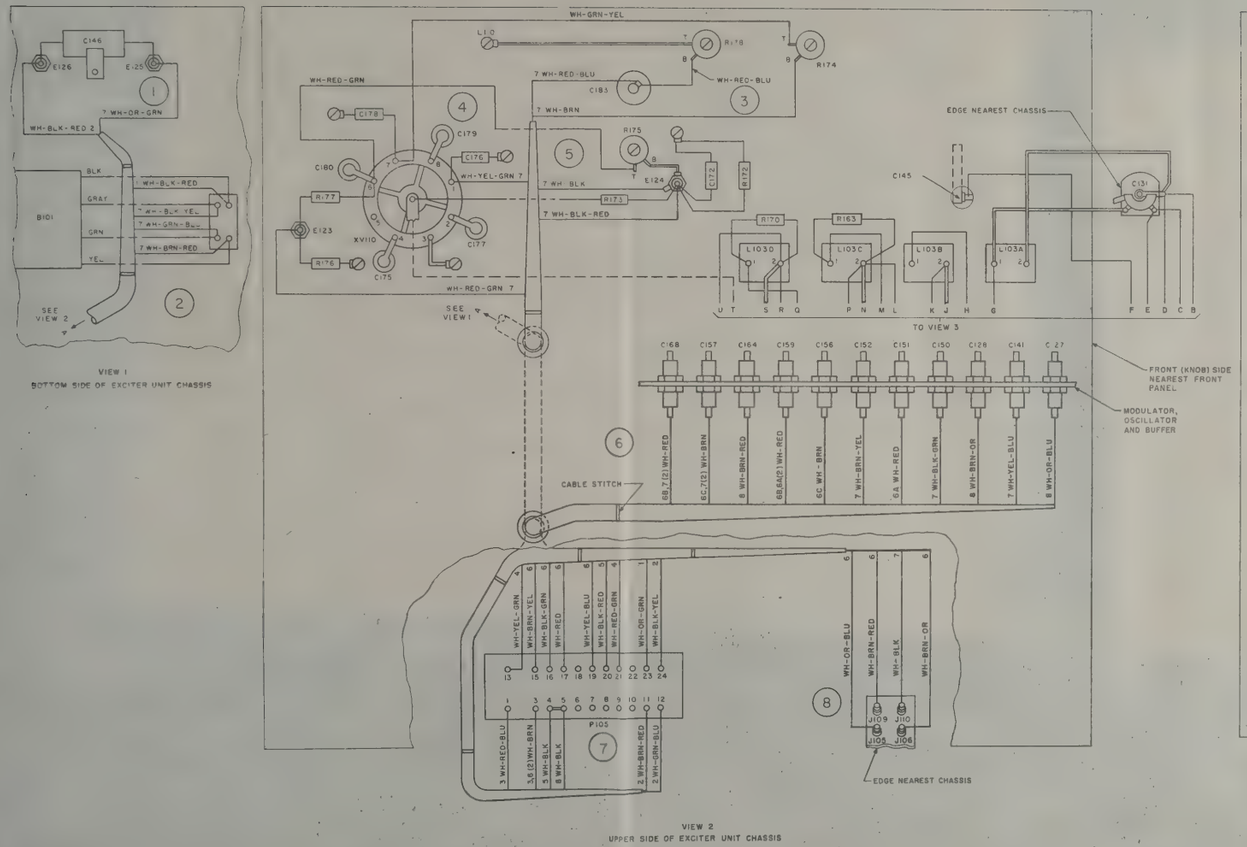


Figure 284. Rf exciter plug-in assembly, wiring diagram for type 1 procured on Order No. 16811–Phila–51.

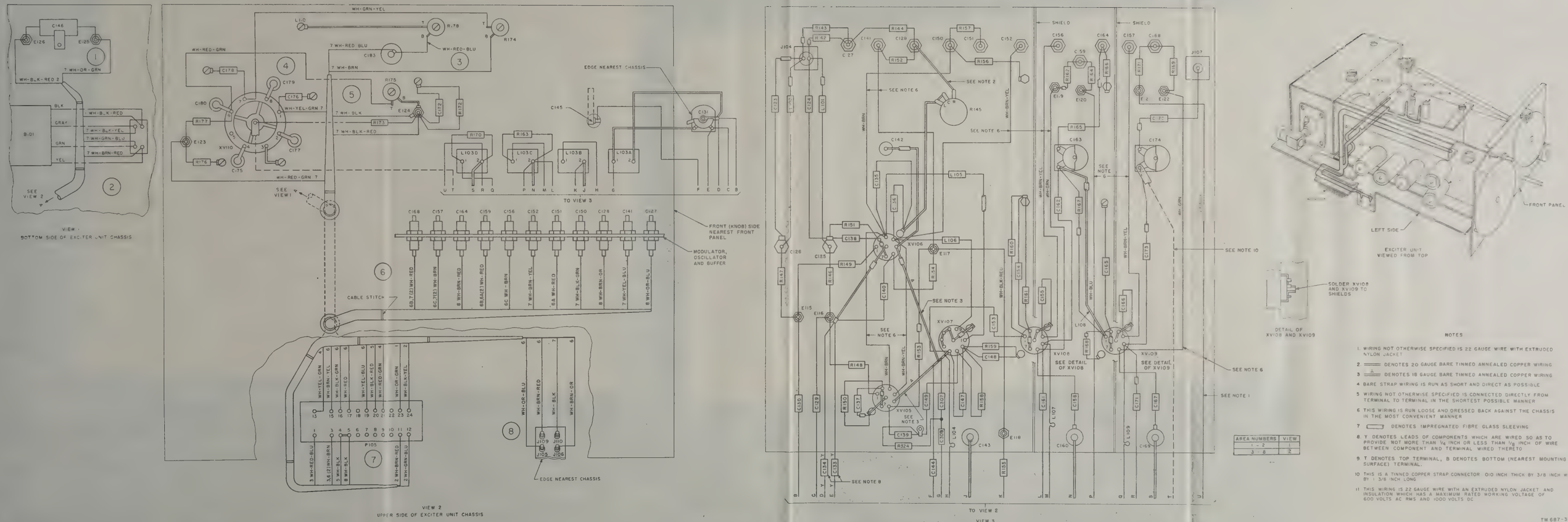
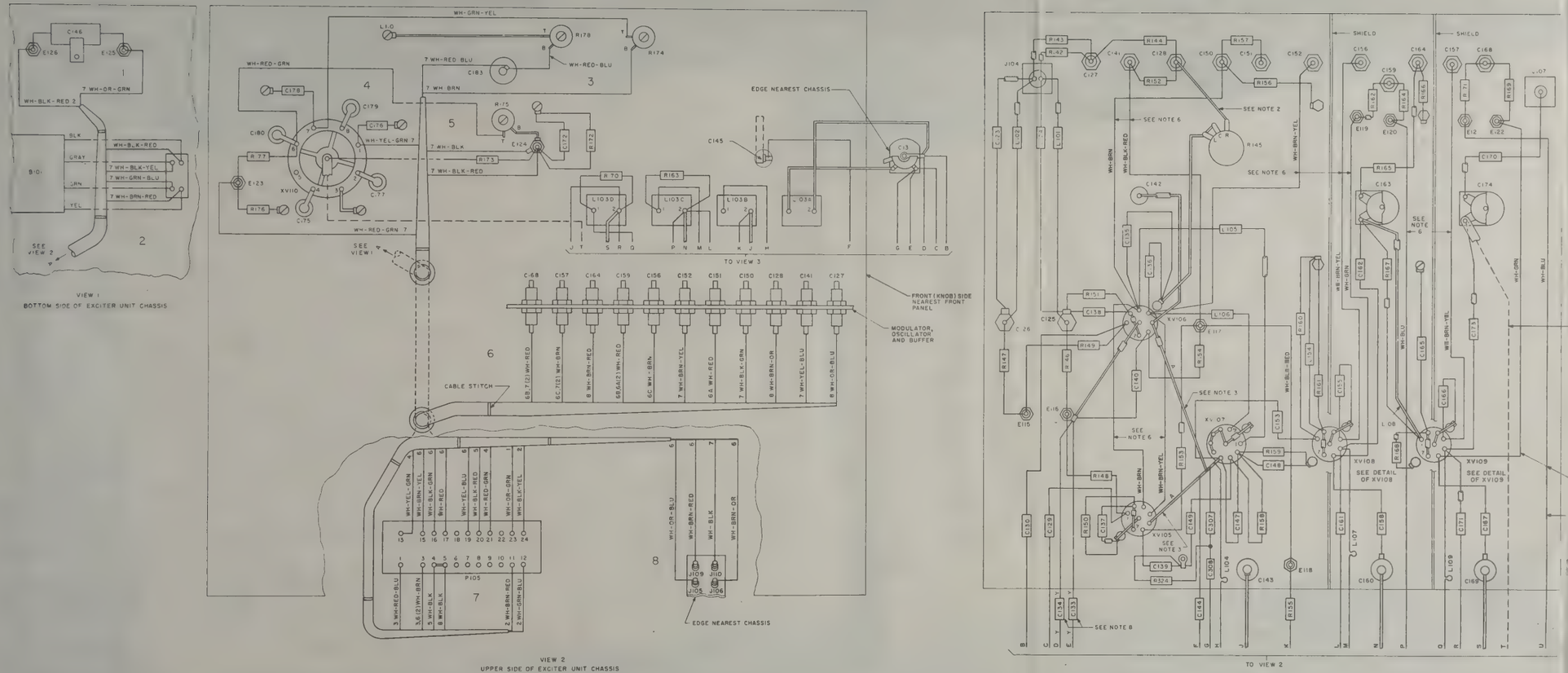


Figure 284. Rf exciter plug-in assembly, wiring diagram for type 1 procured on Order No. 16811–Phila–51.



NOTES

1 WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET

2 ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING

3 ═══ DENOTES 18 GAUGE BARE TINNED ANNEALED COPPER WIRING

4 BARE STRAP WIRING IS RUN AS SHORT AND DIRECT AS POSSIBLE

5 WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER

6 THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER

7 ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING

8 Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENT AND TERMINAL WIRED THERETO

9 T DENOTES TOP TERMINAL, B DENOTES BOTTOM (NEAREST MOUNTING SURFACE) TERMINAL

10 THIS IS A TINNED COPPER STRAP CONNECTOR .010 INCH THICK BY 3/8 INCH WIDE BY 1-3/8 INCH LONG

THIS WIRING IS 22 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC RMS AND 1000 VOLTS DC

TM 687-339

381345 O - 56 (In pocket)

Figure 285. Rf exciter plug-in assembly, wiring diagram for types 2 and 3 procured on Order No. 16811–Phila–51 and serial numbers 1 and above on Order No. 58146–Phila–51.

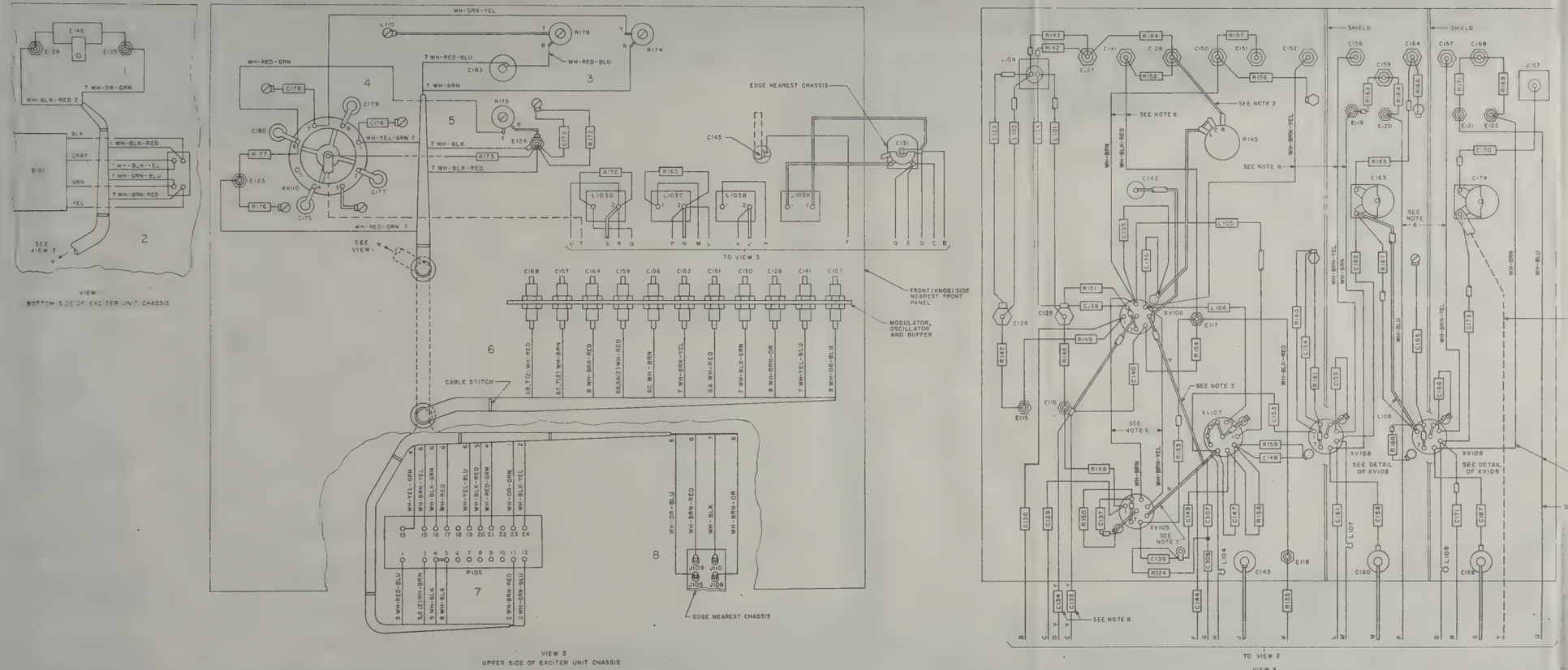
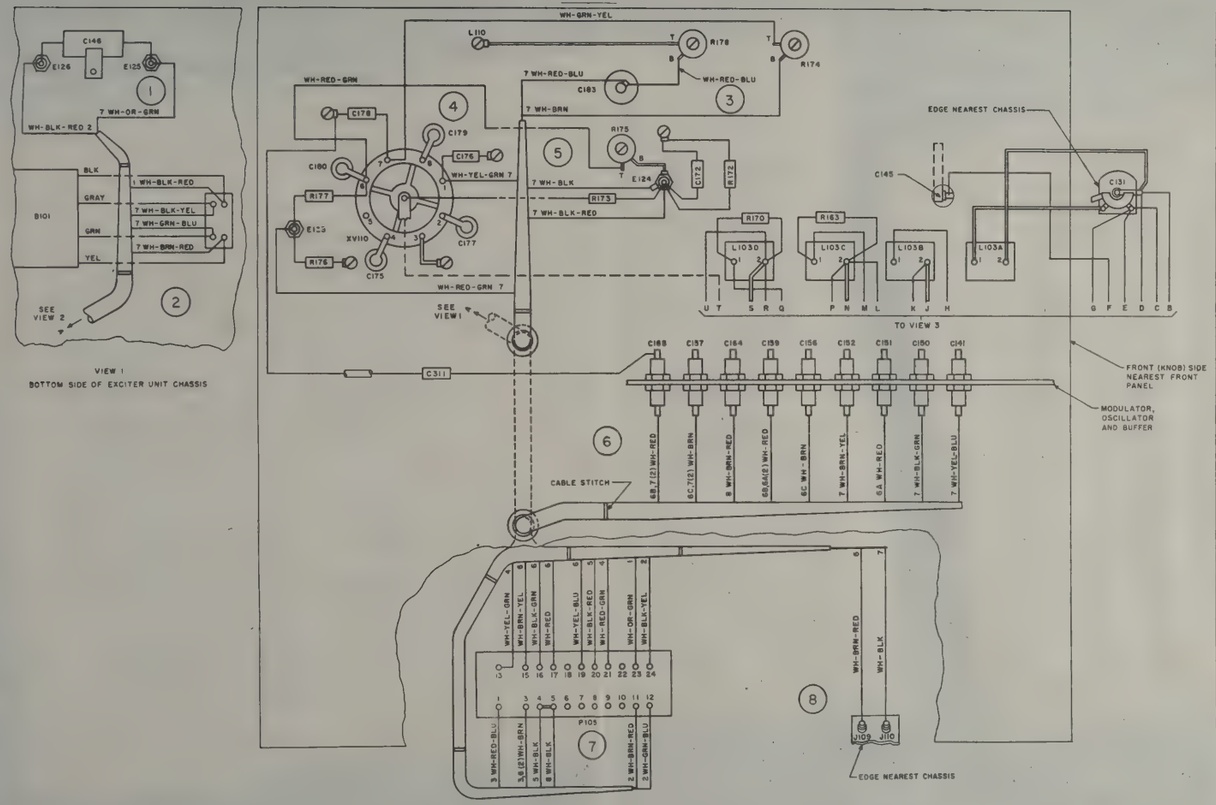


Figure 225. Rf exciter plug-in assembly, wiring diagram for types 2 and 3 procured on Order No. 16811–Phila–51 and serial numbers 1 and above on Order No. 32146–Phila–51.

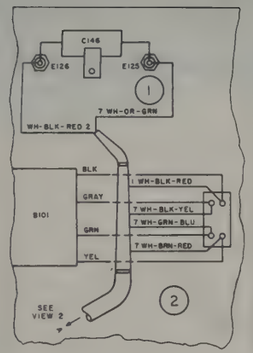


AREA NUMBERS	VIEW
1 – 2	1
3 – 8	2

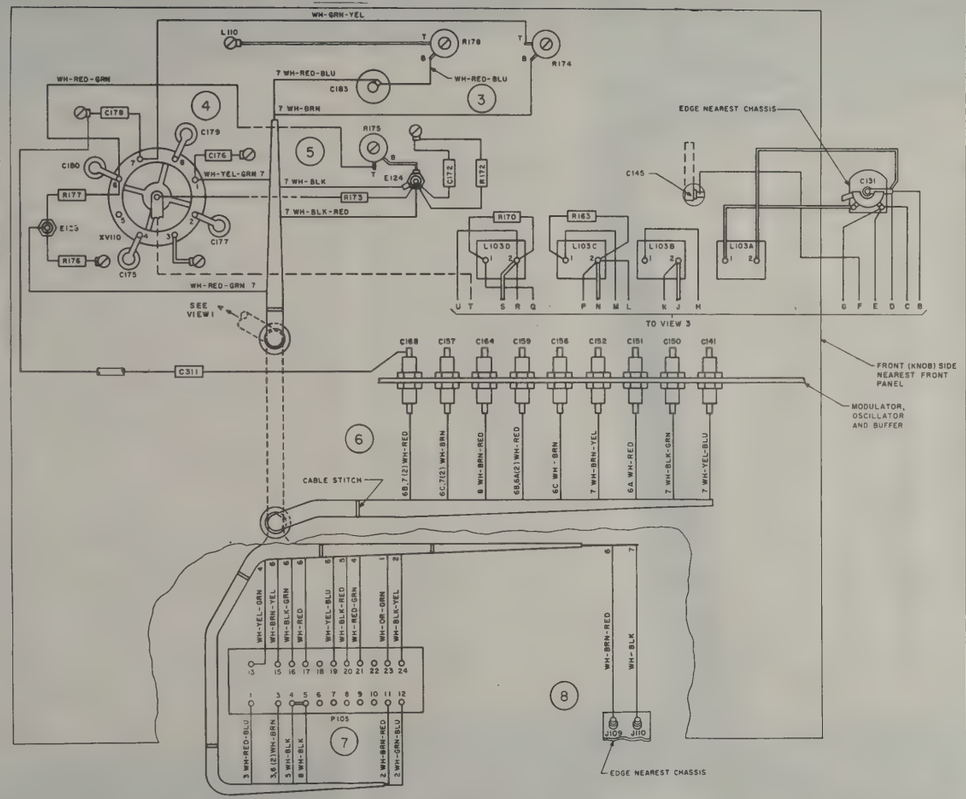
NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
3. ═══ DENOTES 18 GAUGE BARE TINNED ANNEALED COPPER WIRING
4. BARE STRAP WIRING IS RUN AS SHORT AND DIRECT AS POSSIBLE
5. WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER
6. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER
7. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
8. LEADS FROM C133 AND C134 TO GROUND LUG SHOULD NOT EXCEED 3/8 INCH IN LENGHT AFTER SOLDERING LEADS FROM C131 TO C133 AND C134 SHOULD NOT EXCEED 1/4 INCH AFTER SOLDERING.
9. T DENOTES TOP TERMINAL, B DENOTES BOTTOM (NEAREST MOUNTING SURFACE) TERMINAL
10. THIS IS A TINNED COPPER STRAP CONNECTOR .010 INCH THICK BY 3/8 INCH WIDE BY 1 3/8 INCH LONG
11. THIS WIRING IS 22 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC RMS AND 1000 VOLTS DC

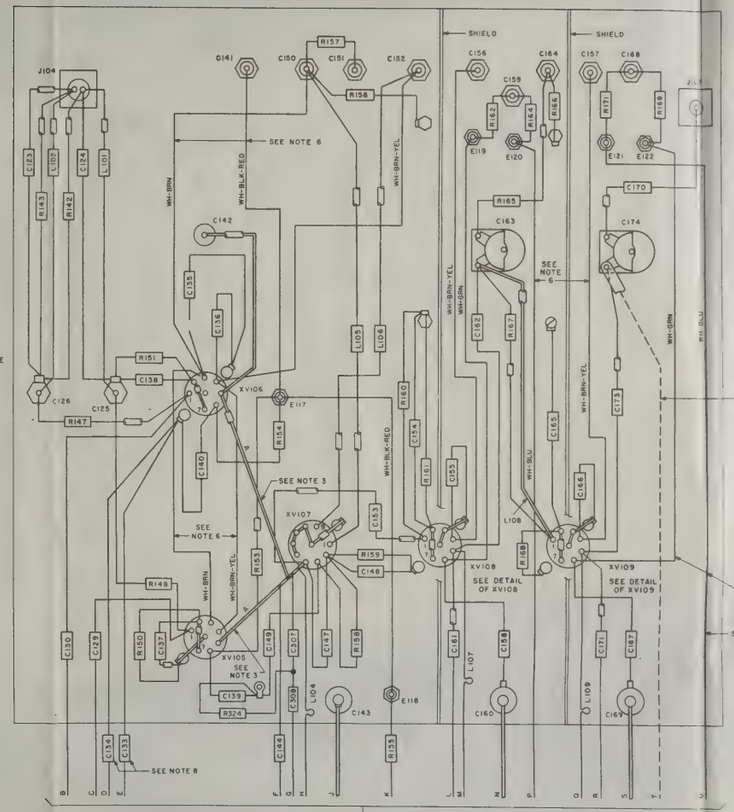
Figure 286. Rf exciter plug-in assembly, wiring diagram for types 4 and 5 procured on Order No. 16811–Phila–61.



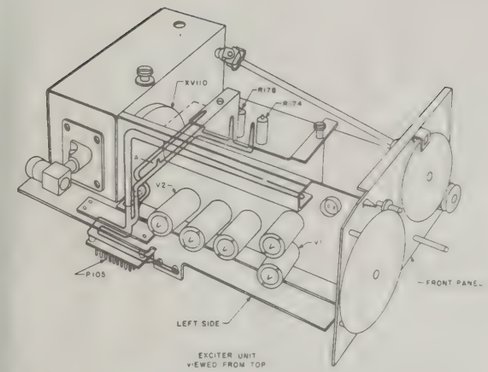
VIEW 1
BOTTOM SIDE OF EXCITER UNIT CHASSIS



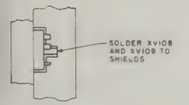
VIEW 2
UPPER SIDE OF EXCITER UNIT CHASSIS



VIEW 3
MODULATOR, OSCILLATOR AND BUFFER, WIRING SIDE



EXCITER UNIT VIEWED FROM TOP



DETAIL OF XV108 AND XV109

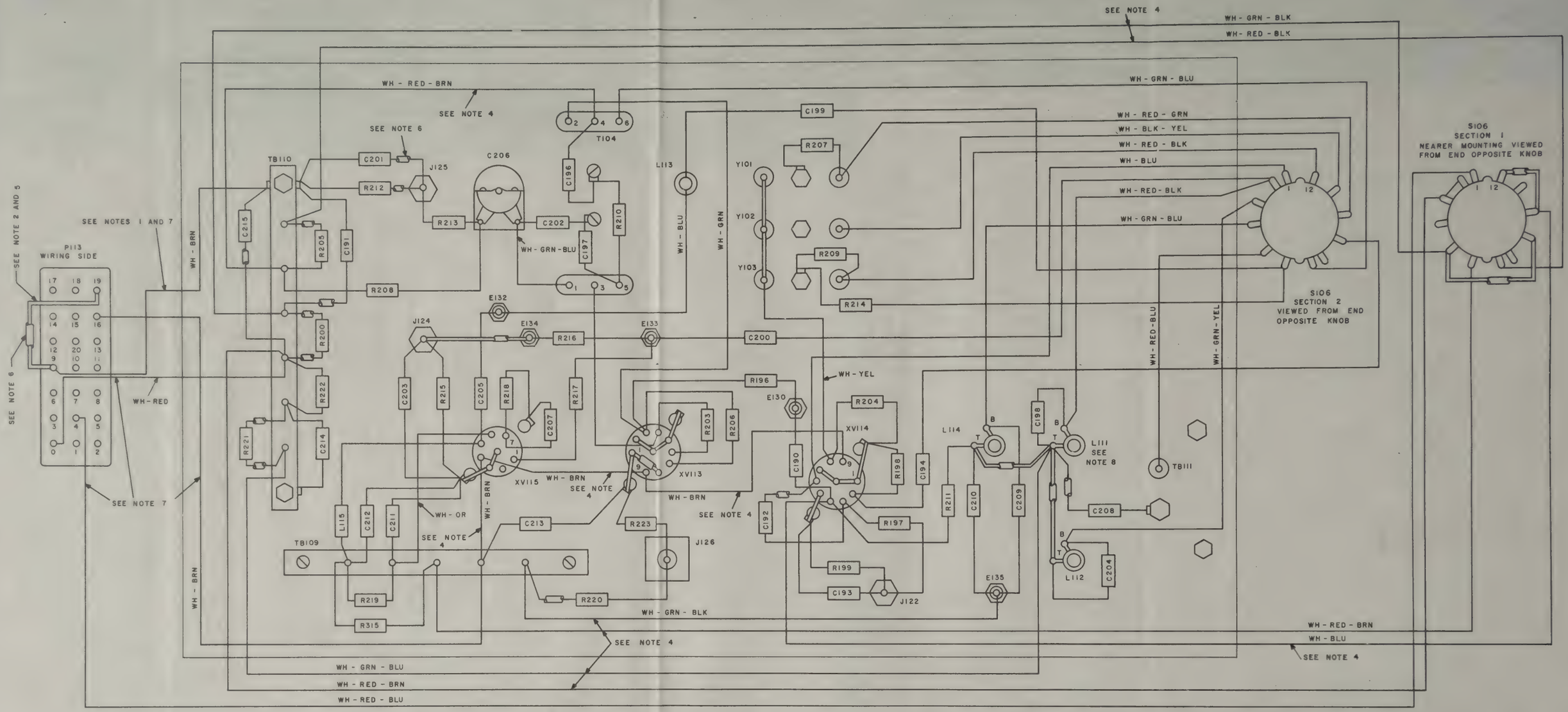
AREA NUMBERS	VIEW
1 - 2	1
3 - 8	2

NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
3. ═══ (A) DENOTES 18 GAUGE BARE TINNED ANNEALED COPPER WIRING
4. BARE STRAP WIRING IS RUN AS SHORT AND DIRECT AS POSSIBLE
5. WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER
6. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER
7. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
8. LEADS FROM C133 AND C134 TO GROUND LUG SHOULD NOT EXCEED 3/8 INCH IN LENGHT AFTER SOLDERING LEADS FROM C131 TO C133 AND C134 SHOULD NOT EXCEED 1/4 INCH AFTER SOLDERING
9. T DENOTES TOP TERMINAL, B DENOTES BOTTOM (NEAREST MOUNTING SURFACE) TERMINAL
10. THIS IS A TINNED COPPER STRAP CONNECTOR .010 INCH THICK BY 3/8 INCH WIDE BY 1 3/8 INCH LONG
11. THIS WIRING IS 22 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC RMS AND 1000 VOLTS DC

Figure 286. Rf exciter plug-in assembly, wiring diagram for types 4 and 5 procured on Order No. 16811–Phila–51.

381345 O - 56 (In pocket)



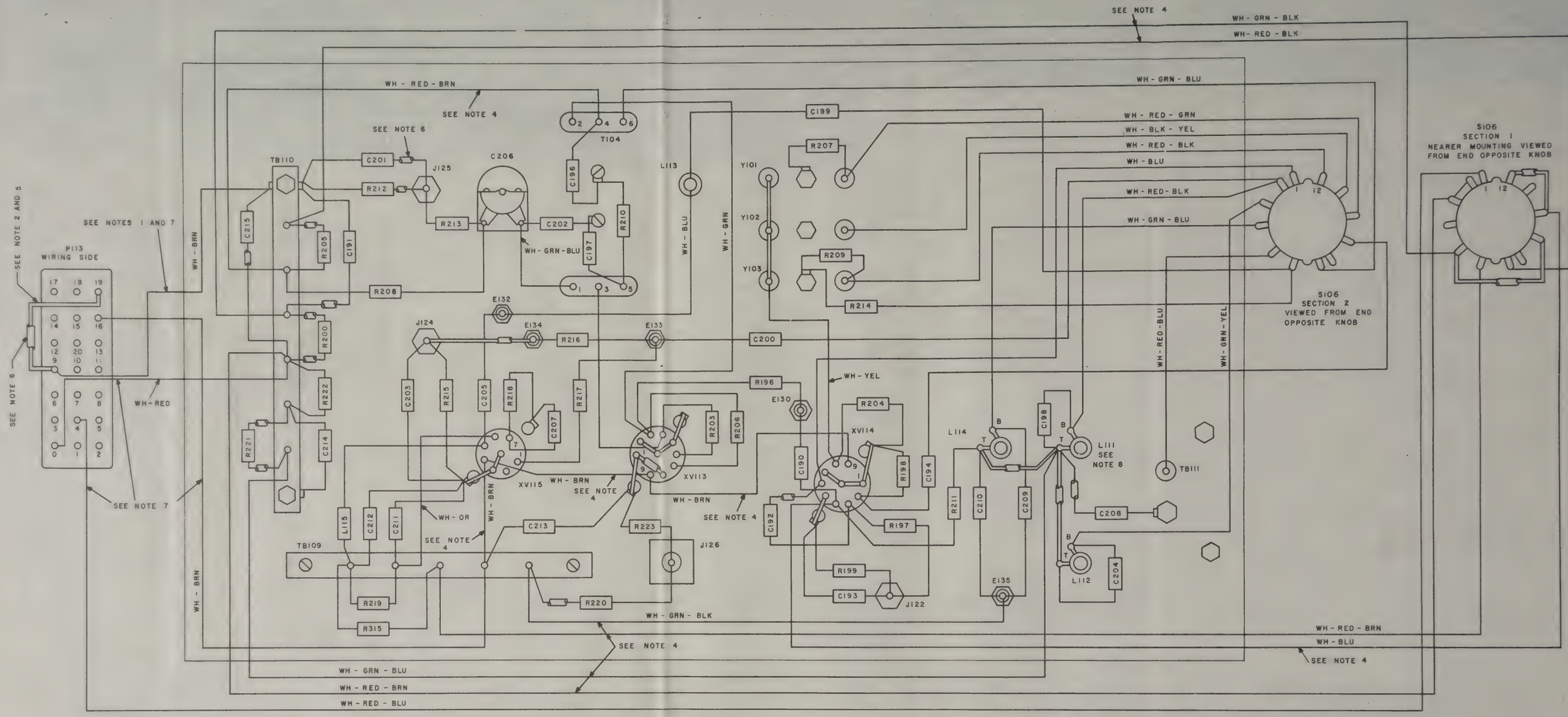
S106 SW POS AS SHOWN ON SCHEMATIC DIAGRAM		SWITCH PANEL MARKING	SWITCH CONTACTS MADE	
			SECTION 1	SECTION 2
1	A	DECADE CHANS	1 - 2	1 - 2
	B		5 - 6	5 - 6
	C		9 - 10	9 - 10
2	A	UNIT CHANS	1 - 3	1 - 3
	B		5 - 7	5 - 7
	C		9 - 11	9 - 11
3	A	DISCR CENTER	1 - 4	1 - 4
	B		5 - 8	5 - 8
	C		9 - 12	9 - 12

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
4. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
7. THIS WIRING IS FORMED INTO A CABLE AND IS SO TIED THAT LEADS ARE KEPT AWAY FROM THE TERMINAL STRIP. SUFFICIENT SLACK IS ALLOWED FOR REMOVAL OF CONNECTOR P113.
8. T DENOTES TOP TERMINAL, B DENOTES BOTTOM (NEAREST MOUNTING SURFACE) TERMINAL.

TM 687-316

Figure 287. Crystal oscillator and pulse generator plug-in assembly, wiring diagram.



CHASSIS, WIRING SIDE

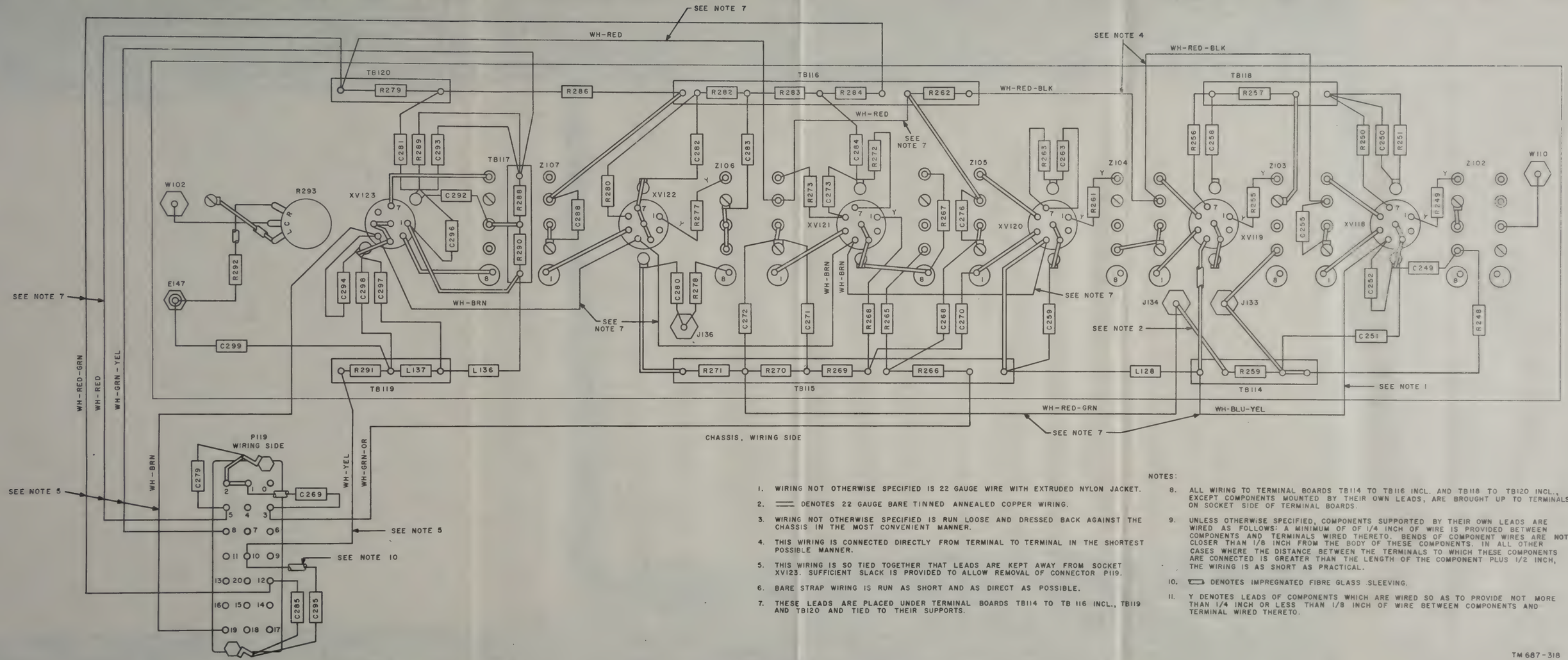
S106 SW POS AS SHOWN ON SCHEMATIC DIAGRAM		SWITCH PANEL MARKING	SWITCH CONTACTS MADE	
			SECTION 1	SECTION 2
1	A	DECADE CHANS	1 - 2	1 - 2
	B		5 - 6	5 - 6
	C		9 - 10	9 - 10
2	A	UNIT CHANS	1 - 3	1 - 3
	B		5 - 7	5 - 7
	C		9 - 11	9 - 11
3	A	DISCR CENTER	1 - 4	1 - 4
	B		5 - 8	5 - 8
	C		9 - 12	9 - 12

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
4. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. ⬭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
7. THIS WIRING IS FORMED INTO A CABLE AND IS SO TIED THAT LEADS ARE KEPT AWAY FROM THE TERMINAL STRIP. SUFFICIENT SLACK IS ALLOWED FOR REMOVAL OF CONNECTOR P113.
8. T DENOTES TOP TERMINAL, B DENOTES BOTTOM (NEAREST MOUNTING SURFACE) TERMINAL.

TM 687-316

Figure 287. Crystal oscillator and pulse generator plug-in assembly, wiring diagram.



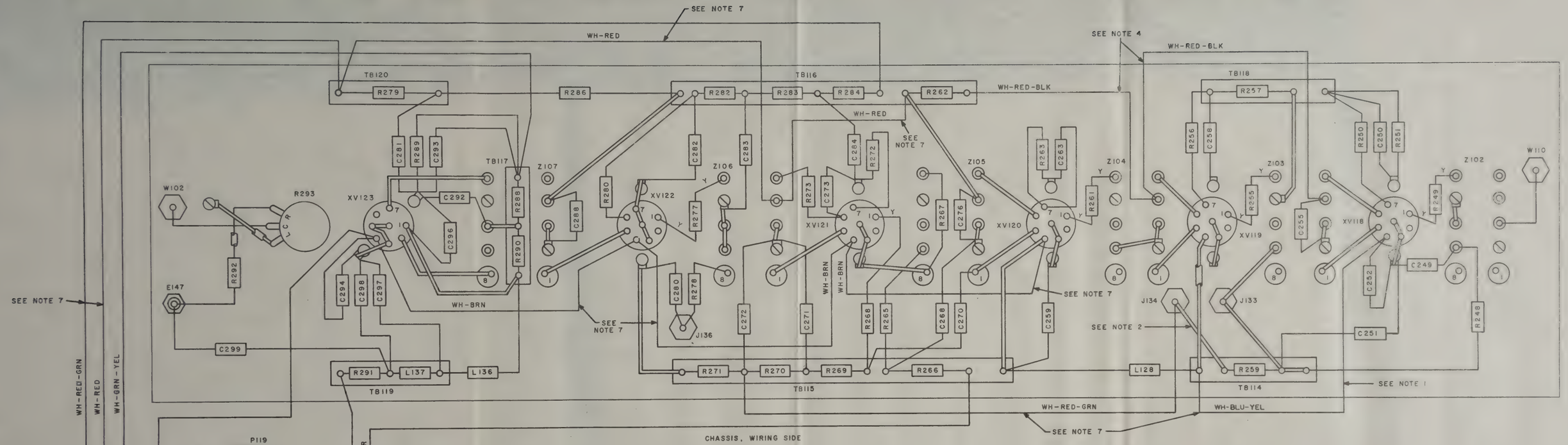
NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 22 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. THIS WIRING IS SO TIED TOGETHER THAT LEADS ARE KEPT AWAY FROM SOCKET XV123. SUFFICIENT SLACK IS PROVIDED TO ALLOW REMOVAL OF CONNECTOR P119.
6. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
7. THESE LEADS ARE PLACED UNDER TERMINAL BOARDS TB114 TO TB 116 INCL., TB119 AND TB120 AND TIED TO THEIR SUPPORTS.
8. ALL WIRING TO TERMINAL BOARDS TB114 TO TB116 INCL. AND TB118 TO TB120 INCL., EXCEPT COMPONENTS MOUNTED BY THEIR OWN LEADS, ARE BROUGHT UP TO TERMINALS ON SOCKET SIDE OF TERMINAL BOARDS.
9. UNLESS OTHERWISE SPECIFIED, COMPONENTS SUPPORTED BY THEIR OWN LEADS ARE WIRED AS FOLLOWS: A MINIMUM OF OF 1/4 INCH OF WIRE IS PROVIDED BETWEEN COMPONENTS AND TERMINALS WIRED THERETO. BENDS OF COMPONENT WIRES ARE NOT CLOSER THAN 1/8 INCH FROM THE BODY OF THESE COMPONENTS. IN ALL OTHER CASES WHERE THE DISTANCE BETWEEN THE TERMINALS TO WHICH THESE COMPONENTS ARE CONNECTED IS GREATER THAN THE LENGTH OF THE COMPONENT PLUS 1/2 INCH, THE WIRING IS AS SHORT AS PRACTICAL.
10. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
11. Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENTS AND TERMINAL WIRED THERETO.

Figure 289. Transmitter afc if. amplifier plug-in assembly, wiring diagram.

TM 687-318

381345 O - 56 (In pocket)

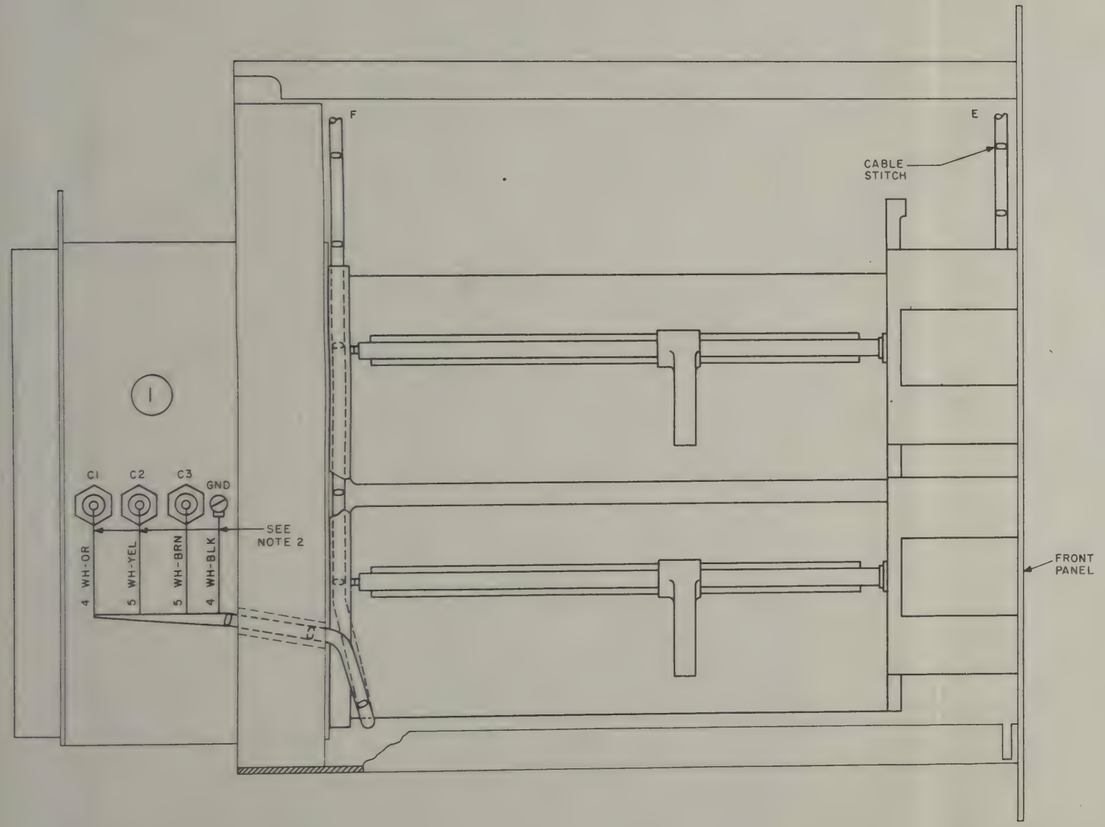


NOTES:

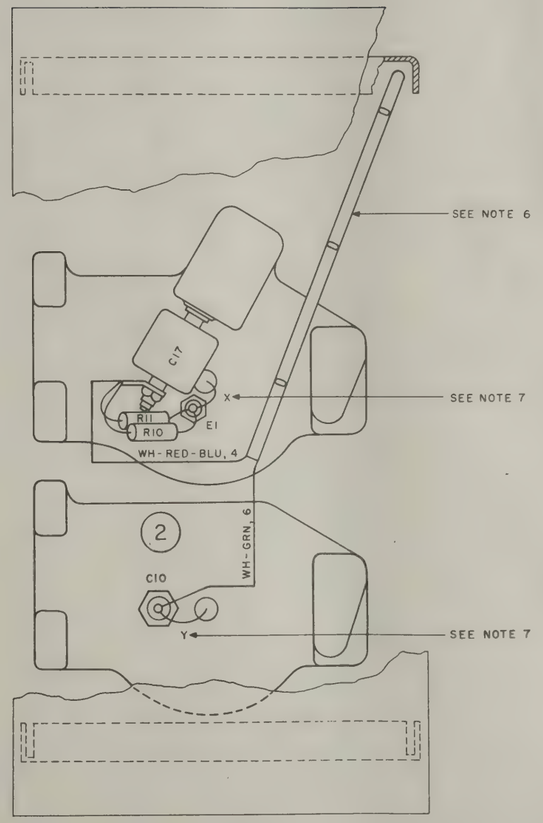
1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 22 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. THIS WIRING IS SO TIED TOGETHER THAT LEADS ARE KEPT AWAY FROM SOCKET XV123. SUFFICIENT SLACK IS PROVIDED TO ALLOW REMOVAL OF CONNECTOR P119.
6. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
7. THESE LEADS ARE PLACED UNDER TERMINAL BOARDS TB114 TO TB 116 INCL., TB119 AND TB120 AND TIED TO THEIR SUPPORTS.
8. ALL WIRING TO TERMINAL BOARDS TB114 TO TB116 INCL. AND TB118 TO TB120 INCL., EXCEPT COMPONENTS MOUNTED BY THEIR OWN LEADS, ARE BROUGHT UP TO TERMINALS ON SOCKET SIDE OF TERMINAL BOARDS.
9. UNLESS OTHERWISE SPECIFIED, COMPONENTS SUPPORTED BY THEIR OWN LEADS ARE WIRED AS FOLLOWS: A MINIMUM OF OF 1/4 INCH OF WIRE IS PROVIDED BETWEEN COMPONENTS AND TERMINALS WIRED THERETO. BENDS OF COMPONENT WIRES ARE NOT CLOSER THAN 1/8 INCH FROM THE BODY OF THESE COMPONENTS. IN ALL OTHER CASES WHERE THE DISTANCE BETWEEN THE TERMINALS TO WHICH THESE COMPONENTS ARE CONNECTED IS GREATER THAN THE LENGTH OF THE COMPONENT PLUS 1/2 INCH, THE WIRING IS AS SHORT AS PRACTICAL.
10. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
11. Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENTS AND TERMINAL WIRED THERETO.

Figure 289. Transmitter afc if. amplifier plug-in assembly, wiring diagram.

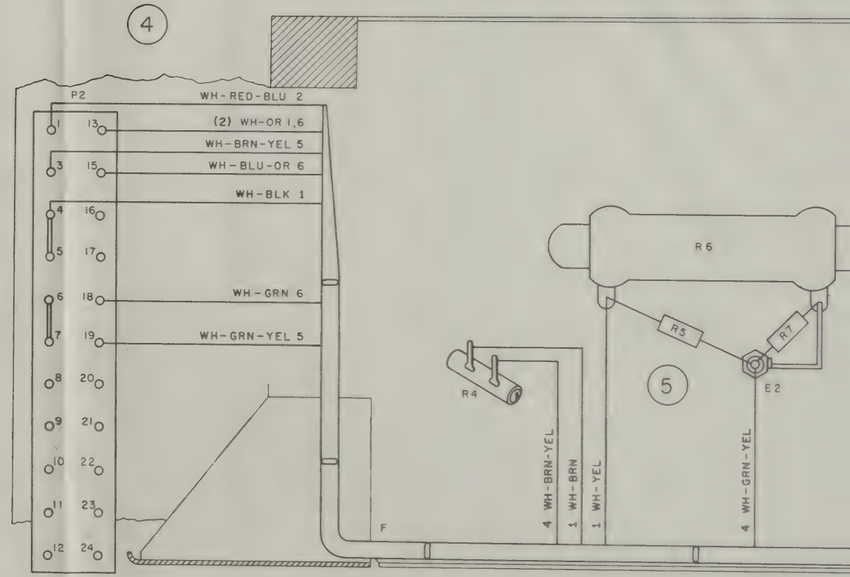
TM 687-318



VIEW 1
TOP VIEW
COVER REMOVED

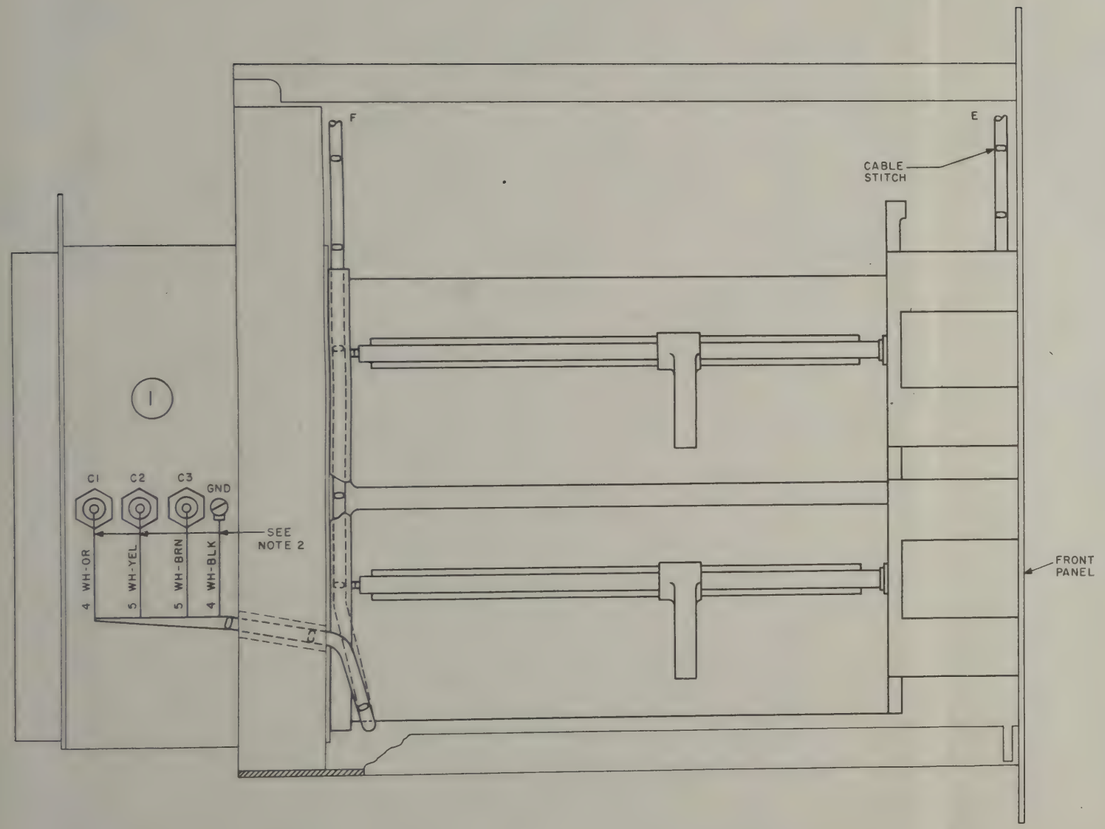


FRONT
WIRING OF CAVITIES
FRONT PANEL REMOVED

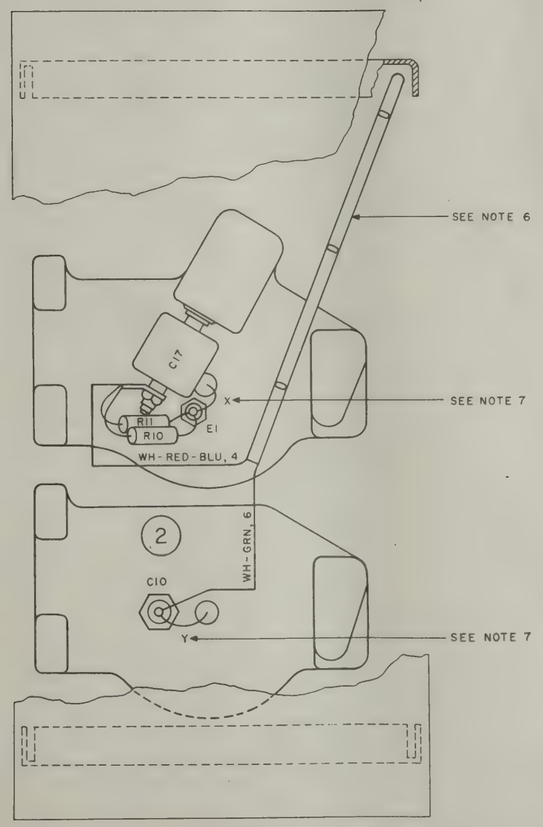


VIEW 2
RIGHT SIDE
VIEWED FROM INTERIOR

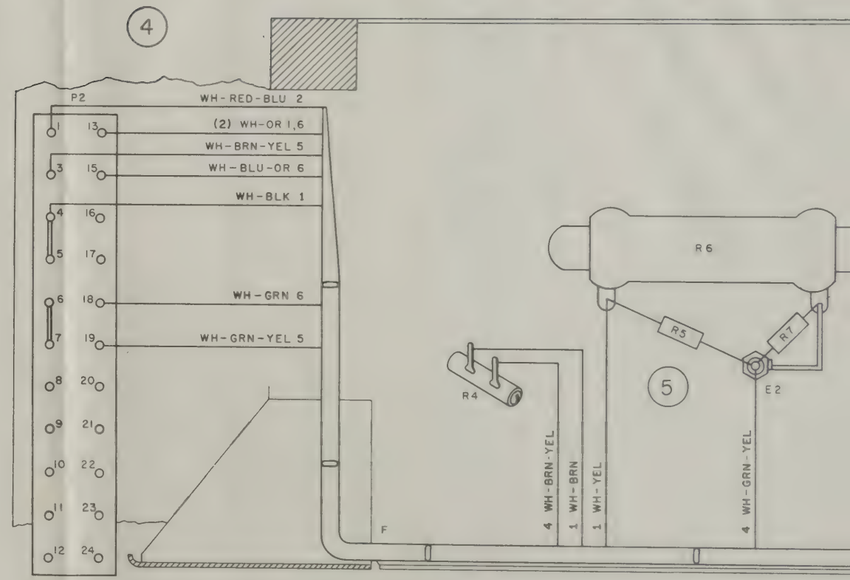
Figure 292. Radio Frequency



VIEW 1
TOP VIEW
COVER REMOVED

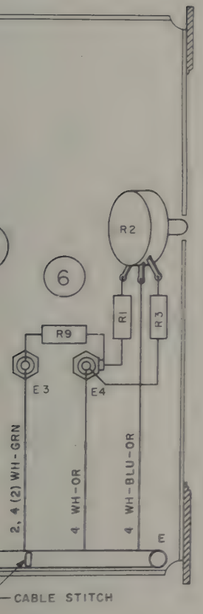


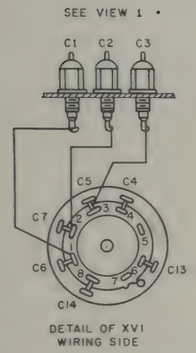
FRONT
WIRING OF CAVITIES
FRONT PANEL REMOVED

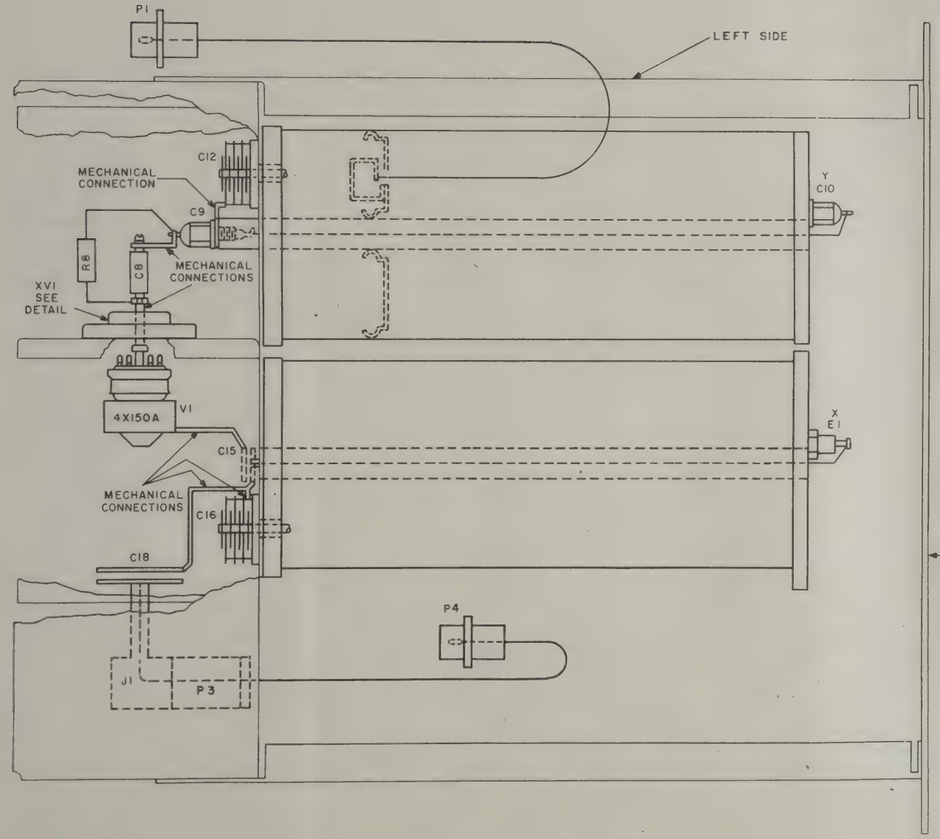


VIEW 2
RIGHT SIDE
VIEWED FROM INTERIOR

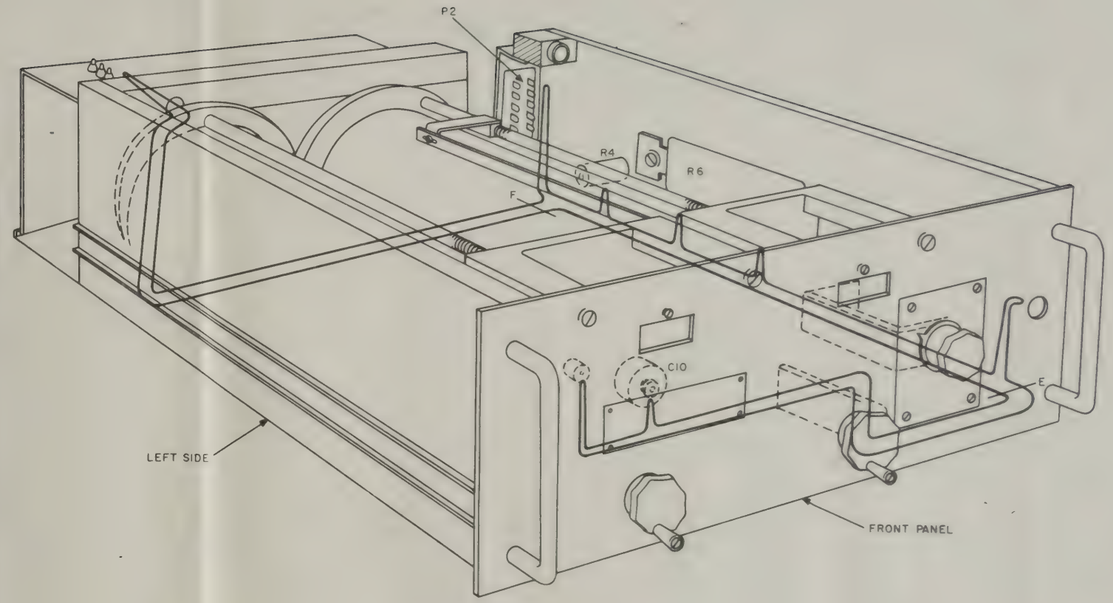
Figure 292. Radio Frequency







VIEW 3
BOTTOM VIEW



AMPLIFIER, RADIO FREQUENCY AM-912/TRC

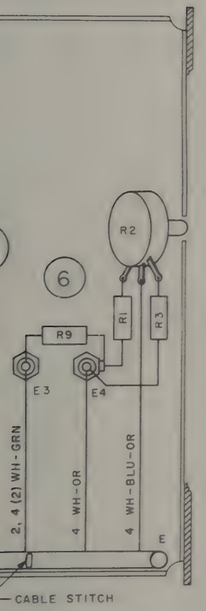
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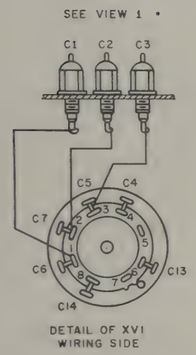
1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
6. THIS IS PART OF THE CABLE ASSEMBLY.
7. FOR INTERNAL CONTINUITY CHECK, SEE VIEW 3

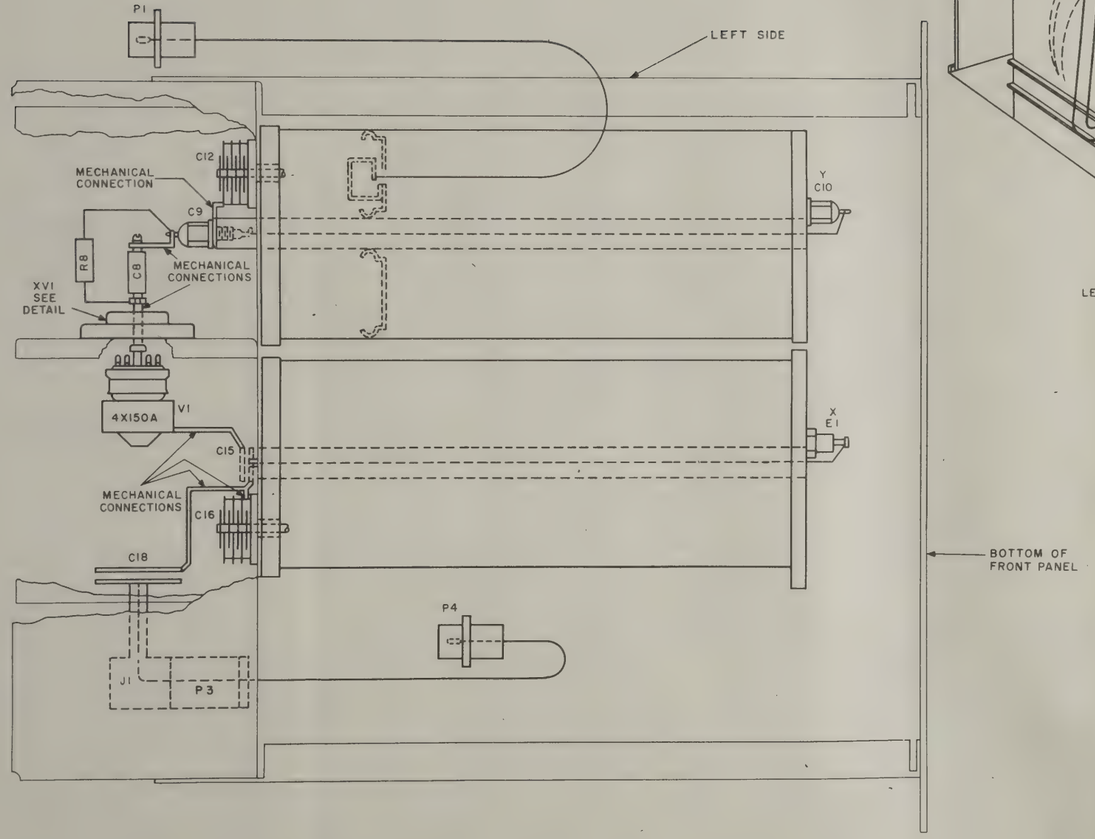
nplifier AM-912/TRC, wiring diagram

TM687-321

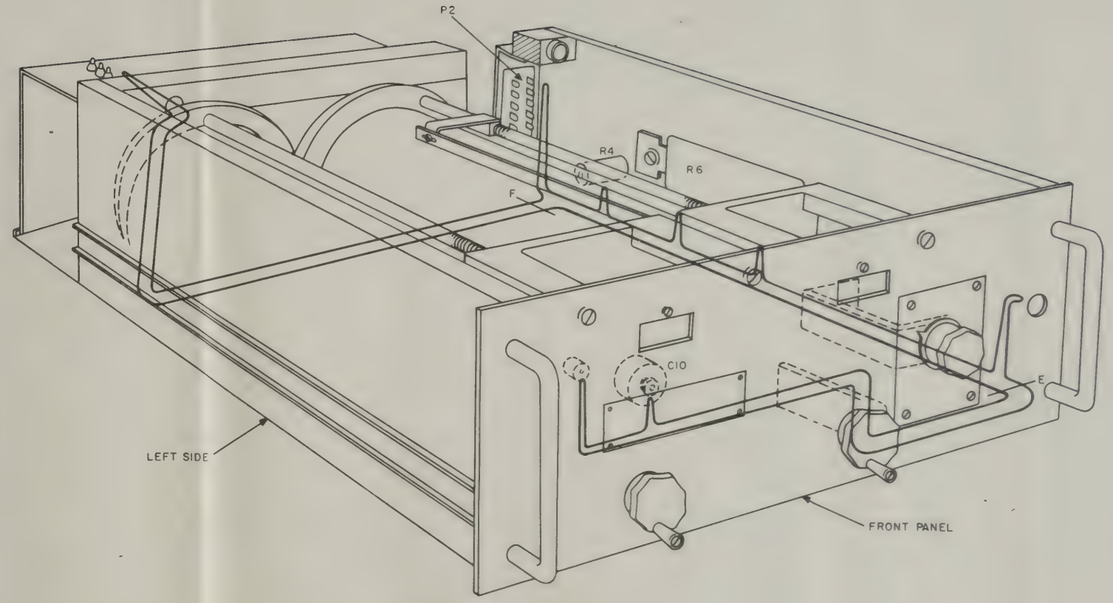
381345 O - 56 (In pocket)







VIEW 3
BOTTOM VIEW



AMPLIFIER, RADIO FREQUENCY AM-912/TRC

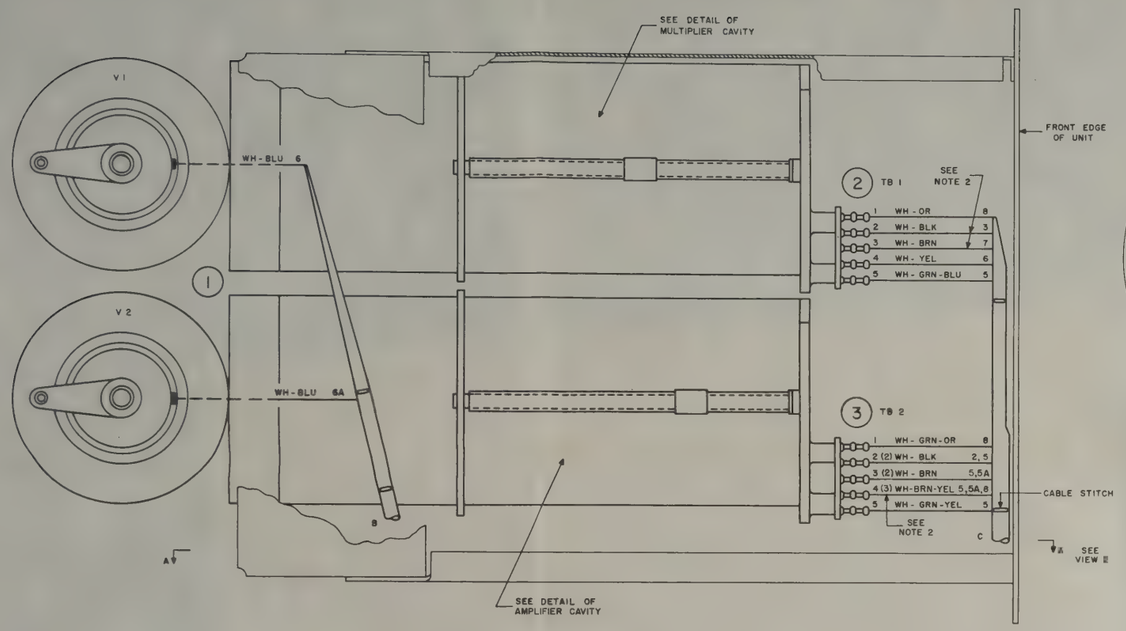
NOTES:

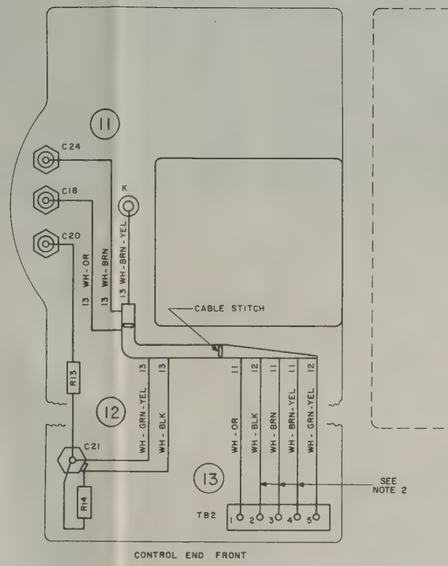
1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. WIRING NOT OTHERWISE SPECIFIED IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
6. THIS IS PART OF THE CABLE ASSEMBLY.
7. FOR INTERNAL CONTINUITY CHECK, SEE VIEW 3

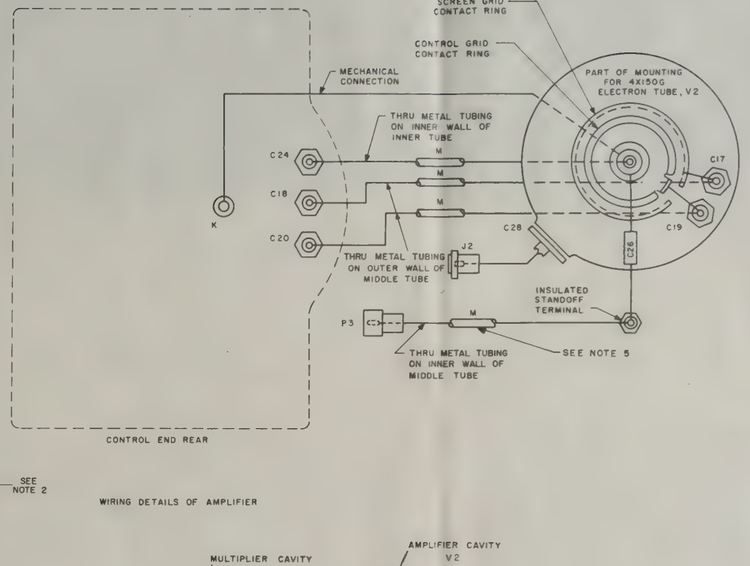
nplifier AM-912/TRC, wiring diagram

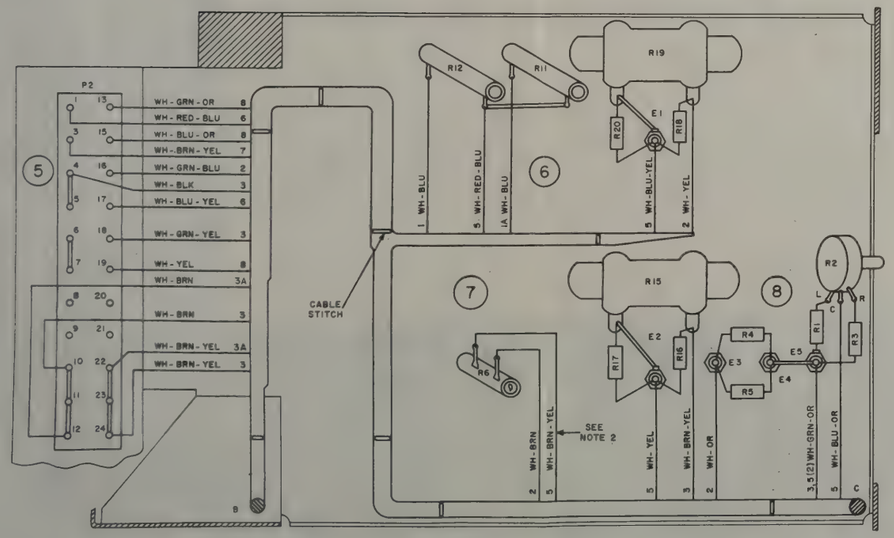
TM687-321

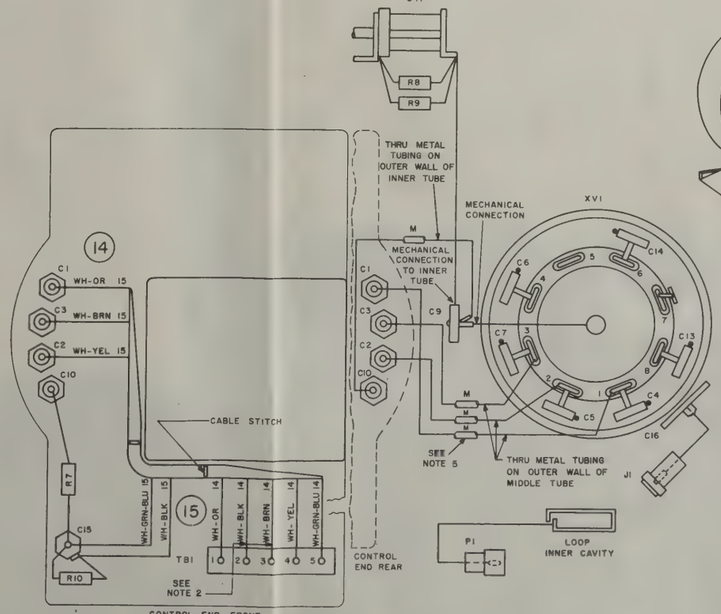
381345 O - 58 (In pocket)

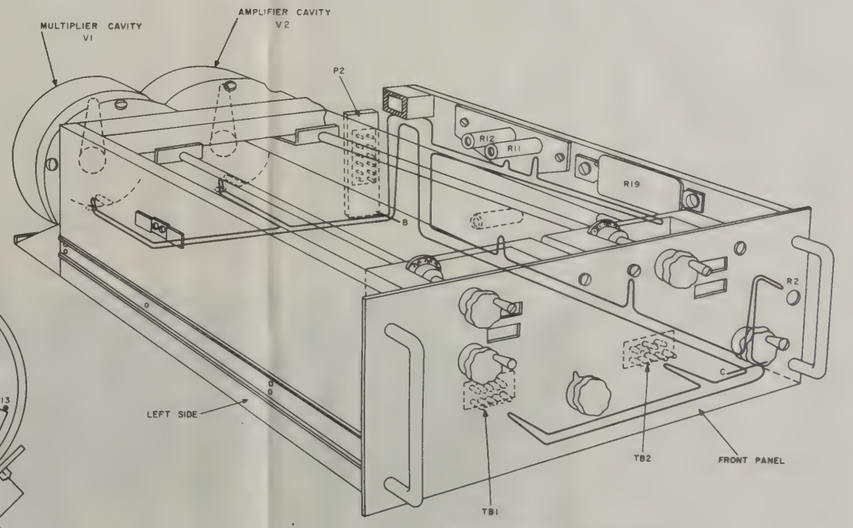












AREA NUMBER	VIEW
1-3	VIEW 1
5-8	VIEW 2
11-13	DETAIL OF AMPLIFIER
14-15	DETAIL OF MULTIPLIER

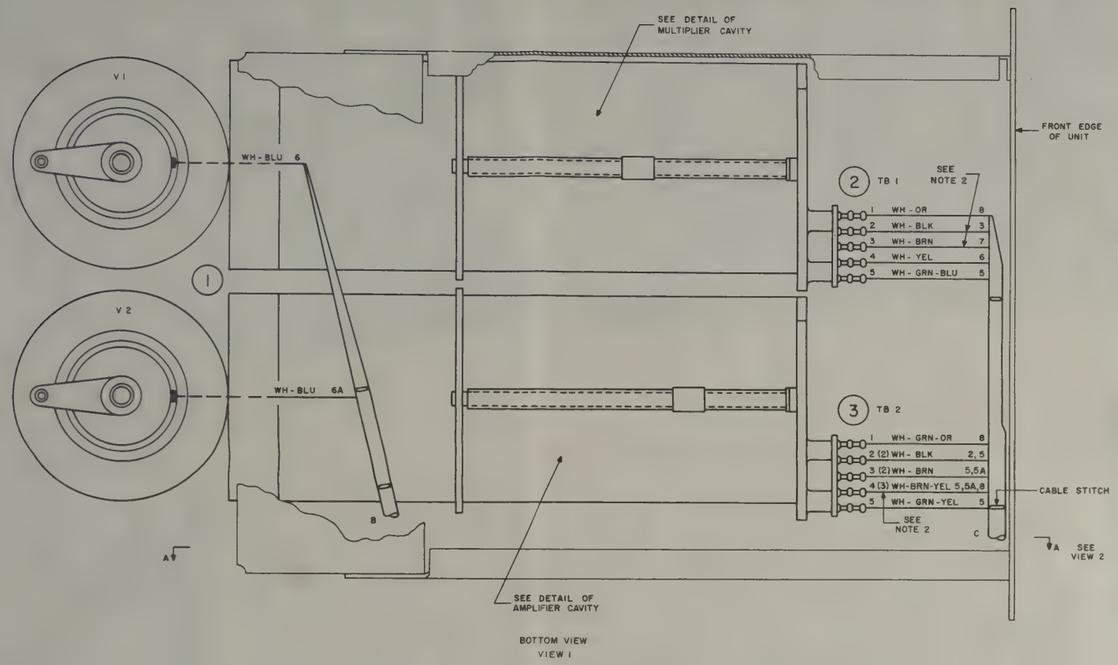
NOTES:

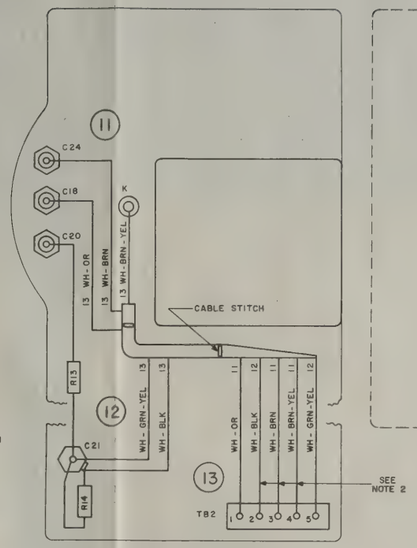
1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. M ═══ DENOTES METAL TUBING.

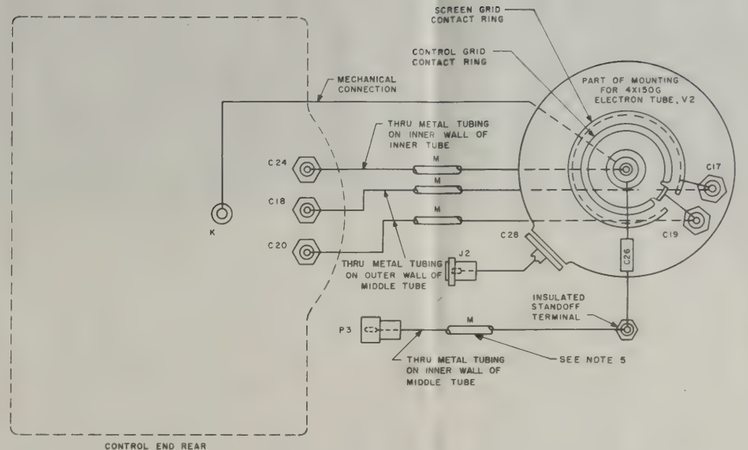
Figure 293. Radio Frequency Amplifier-Multiplier AM-915/TRC, wiring diagram.

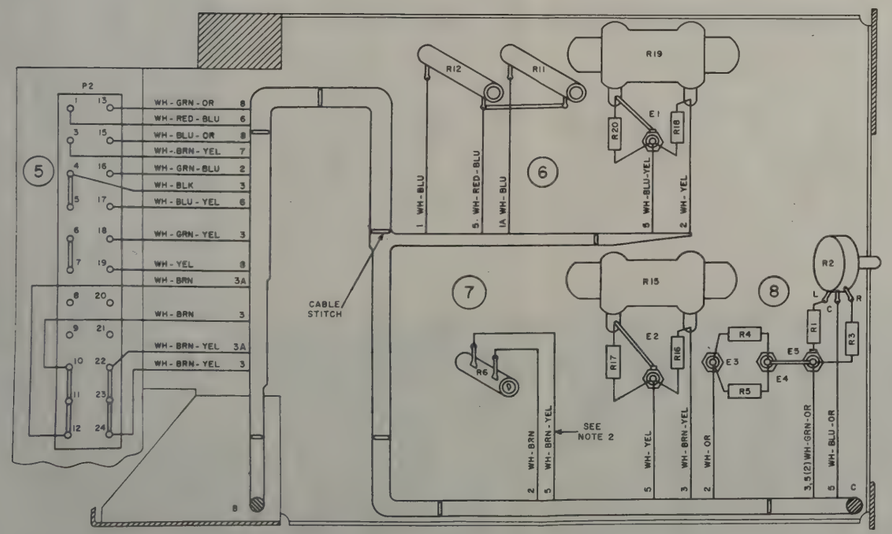
TM 687-322

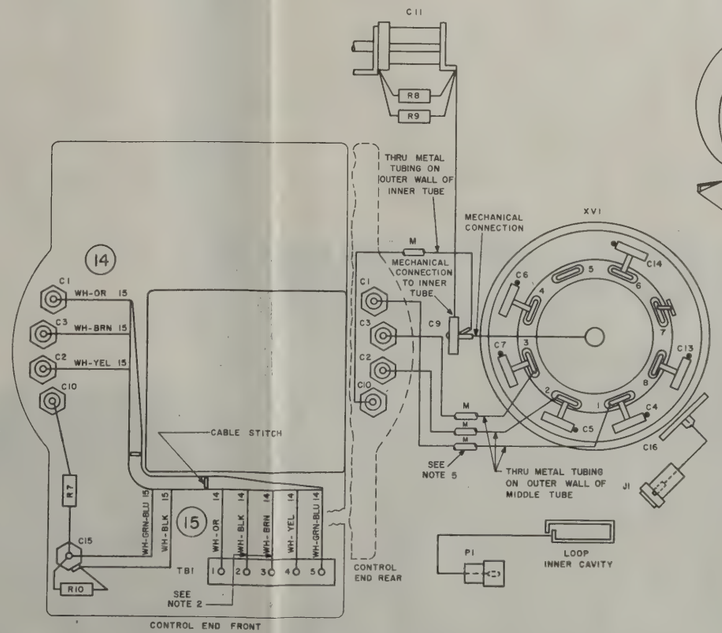
381345 O - 56 (In pocket)

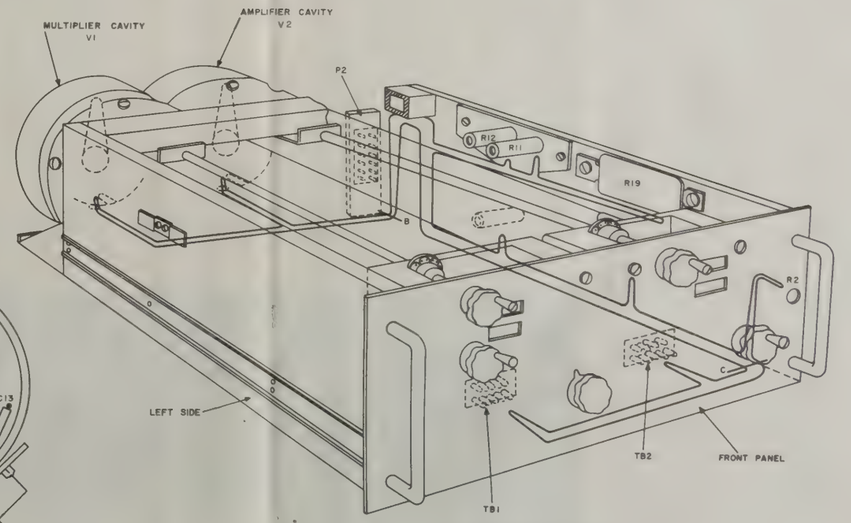












AREA NUMBER	VIEW
1-3	VIEW 1
5-8	VIEW 2
11-13	DETAIL OF AMPLIFIER
14-15	DETAIL OF MULTIPLIER

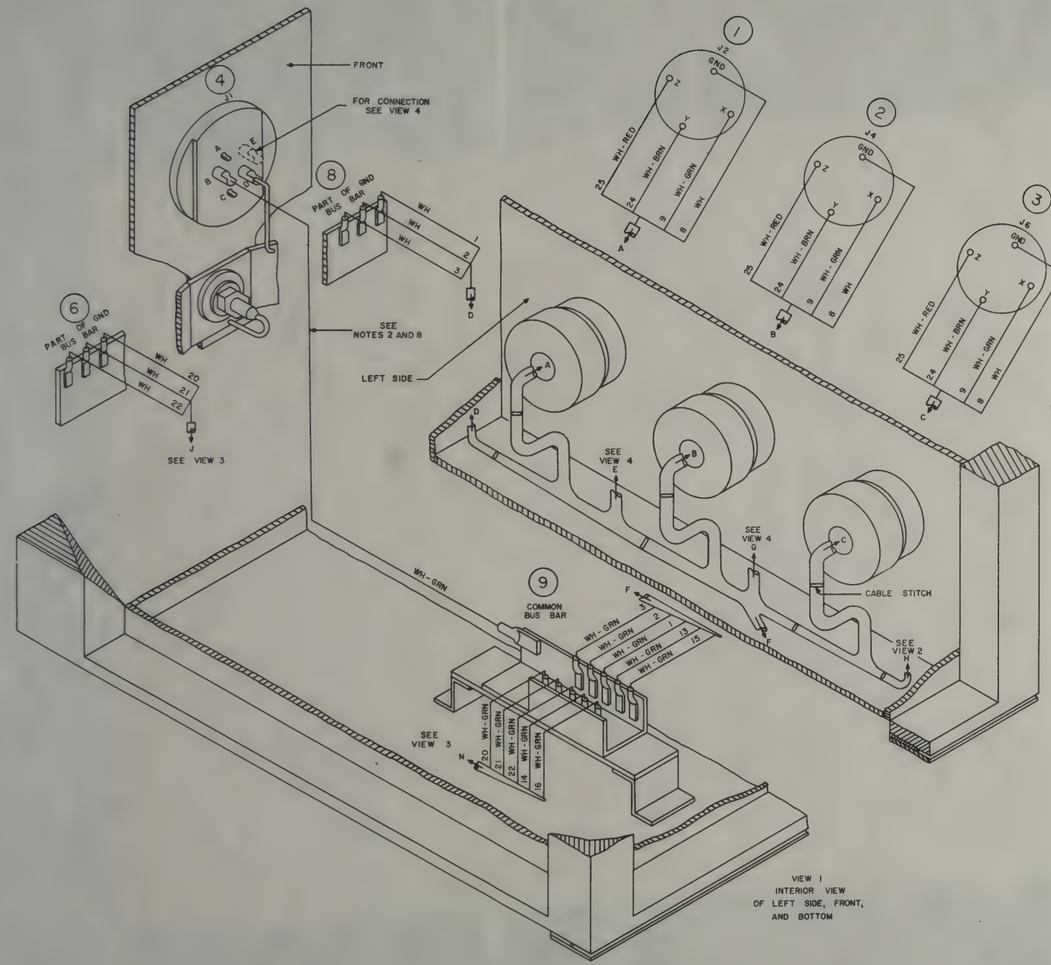
NOTES:

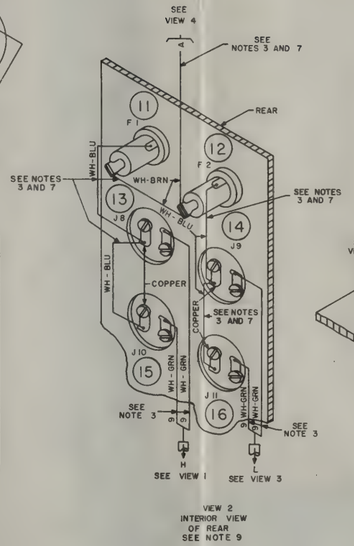
1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. M ═══ DENOTES METAL TUBING.

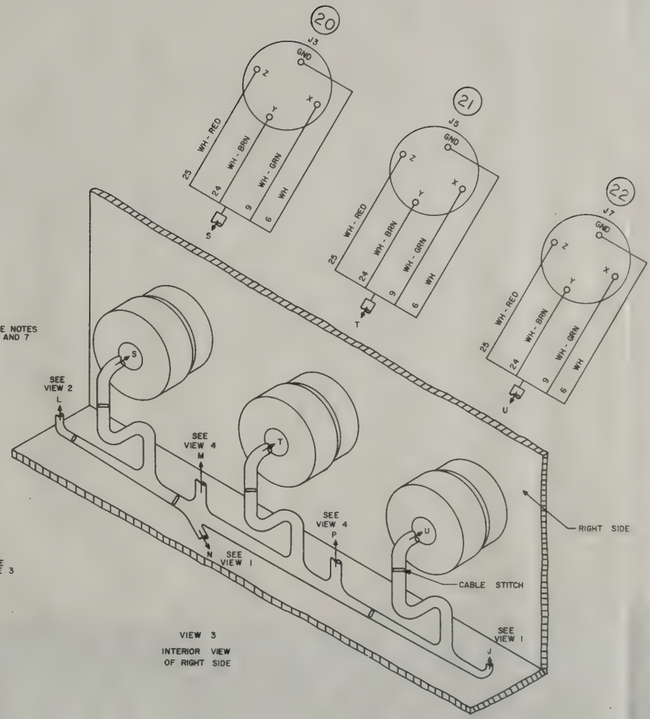
Figure 293. Radio Frequency Amplifier-Multiplier AM-915/TRC, wiring diagram.

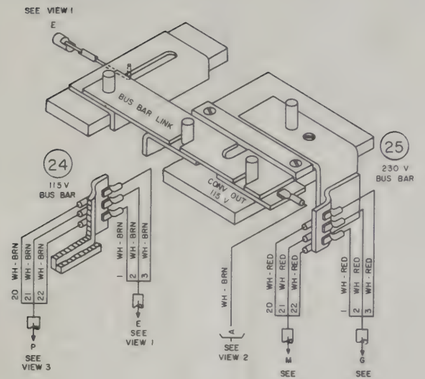
TM 687-322

381345 O - 56 (In pocket)









VIEW 4
DETAIL OF
BUS BAR LINK

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 12 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. THIS WIRING IS 6 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET
4. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
6. WIRING NOT OTHERWISE SPECIFIED IS RUN IN A CABLE FORM.
7. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
8. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST CONNECTING BOX
9. TERMINALS ON CONNECTORS J8, J9, J10, AND J11 ARE SLEEVED WITH 1/2 INCH LONG IMPREGNATED FIBRE GLASS SLEEVING.

AREA NUMBER	VIEW
1-9	1
11-16	2
20-22	3
24-25	4

Figure 295. Interconnecting Box J-532/U, wiring diagram.

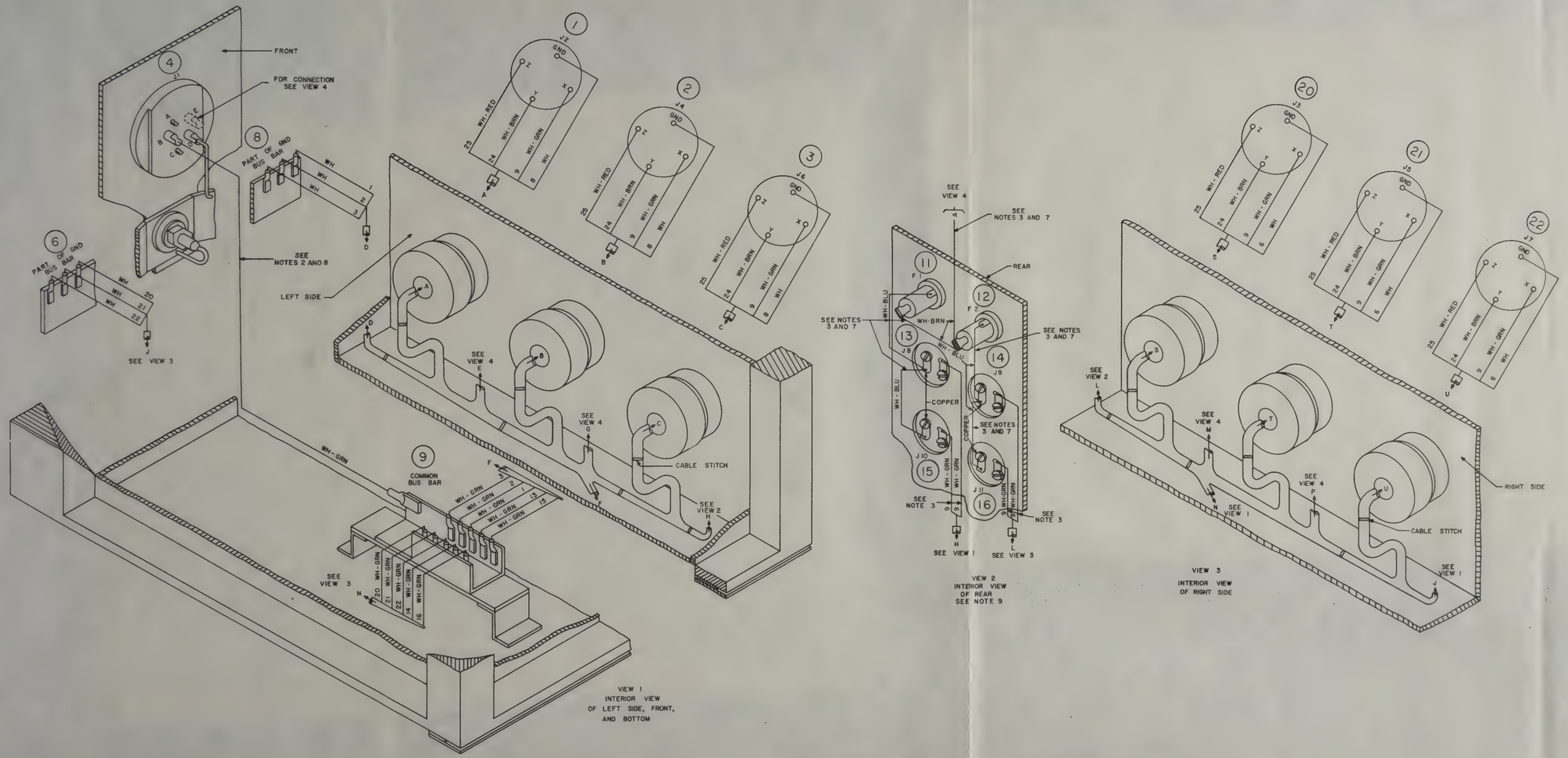
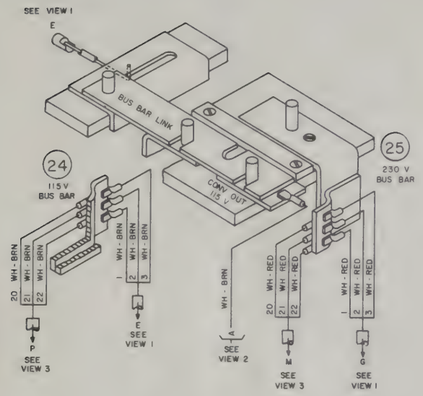


Figure 295. Interconnecting Box J-532/U, wiring diagram.



VIEW 4
DETAIL OF
BUS BAR LINK

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 12 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2. THIS WIRING IS 6 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET
4. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. WIRING NOT OTHERWISE SPECIFIED IS RUN IN A CABLE FORM.
7. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
8. THIS WIRING IS RUN LOOSE AND DRESSED BACK AGAINST CONNECTING BOX.
9. TERMINALS ON CONNECTORS J8, J9, J10, AND J11 ARE SLEEVED WITH 1/2 INCH LONG IMPREGNATED FIBRE GLASS SLEEVING.

AREA NUMBER	VIEW
1-9	1
11-16	2
20-22	3
24-25	4

381345 O - 56 (In pocket)

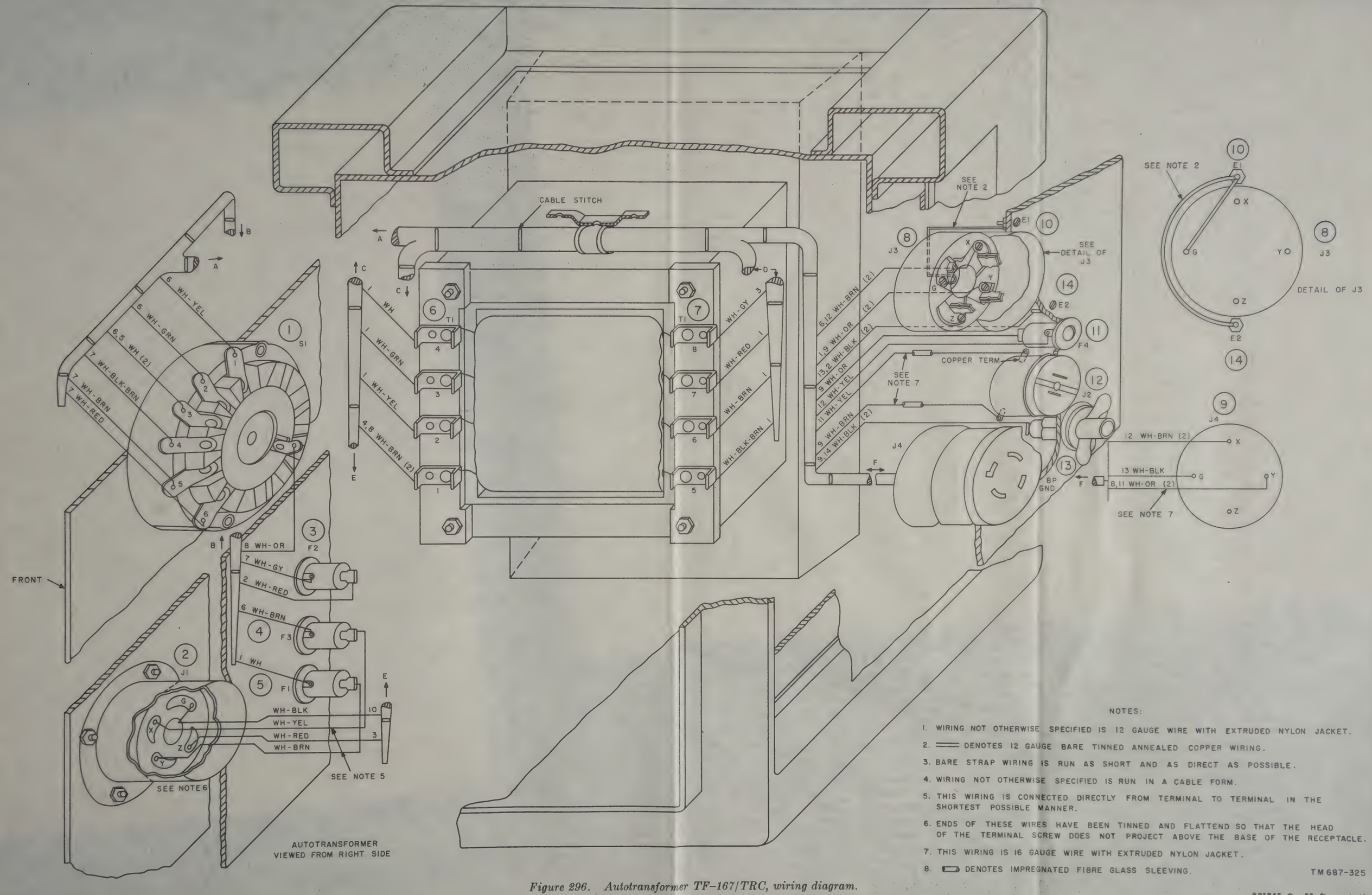


Figure 296. Autotransformer TF–167/TRC, wiring diagram.

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 12 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 12 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
4. WIRING NOT OTHERWISE SPECIFIED IS RUN IN A CABLE FORM.
5. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
6. ENDS OF THESE WIRES HAVE BEEN TINNED AND FLATTEND SO THAT THE HEAD OF THE TERMINAL SCREW DOES NOT PROJECT ABOVE THE BASE OF THE RECEPTACLE.
7. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
8. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.

TM 687-325

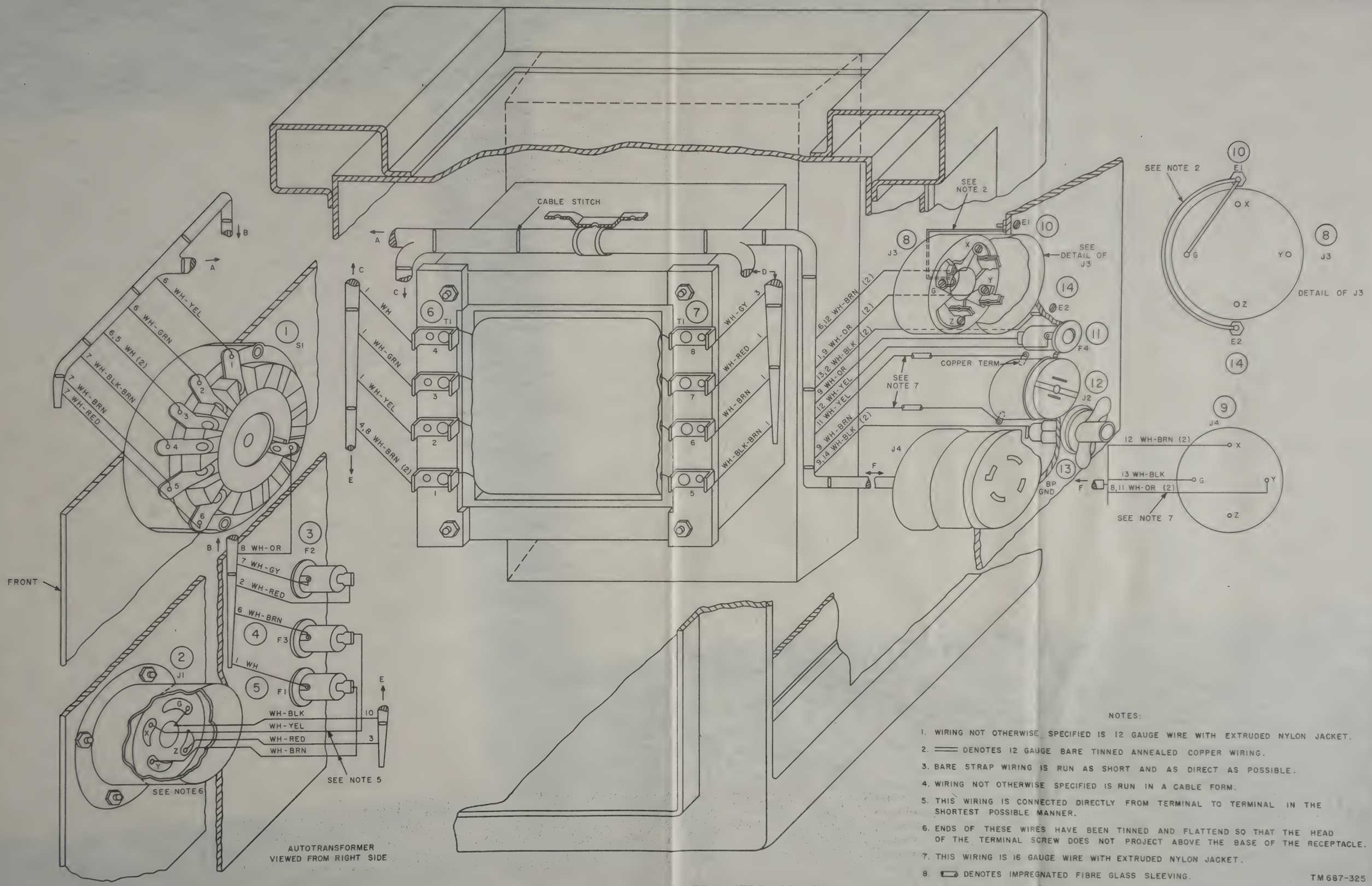
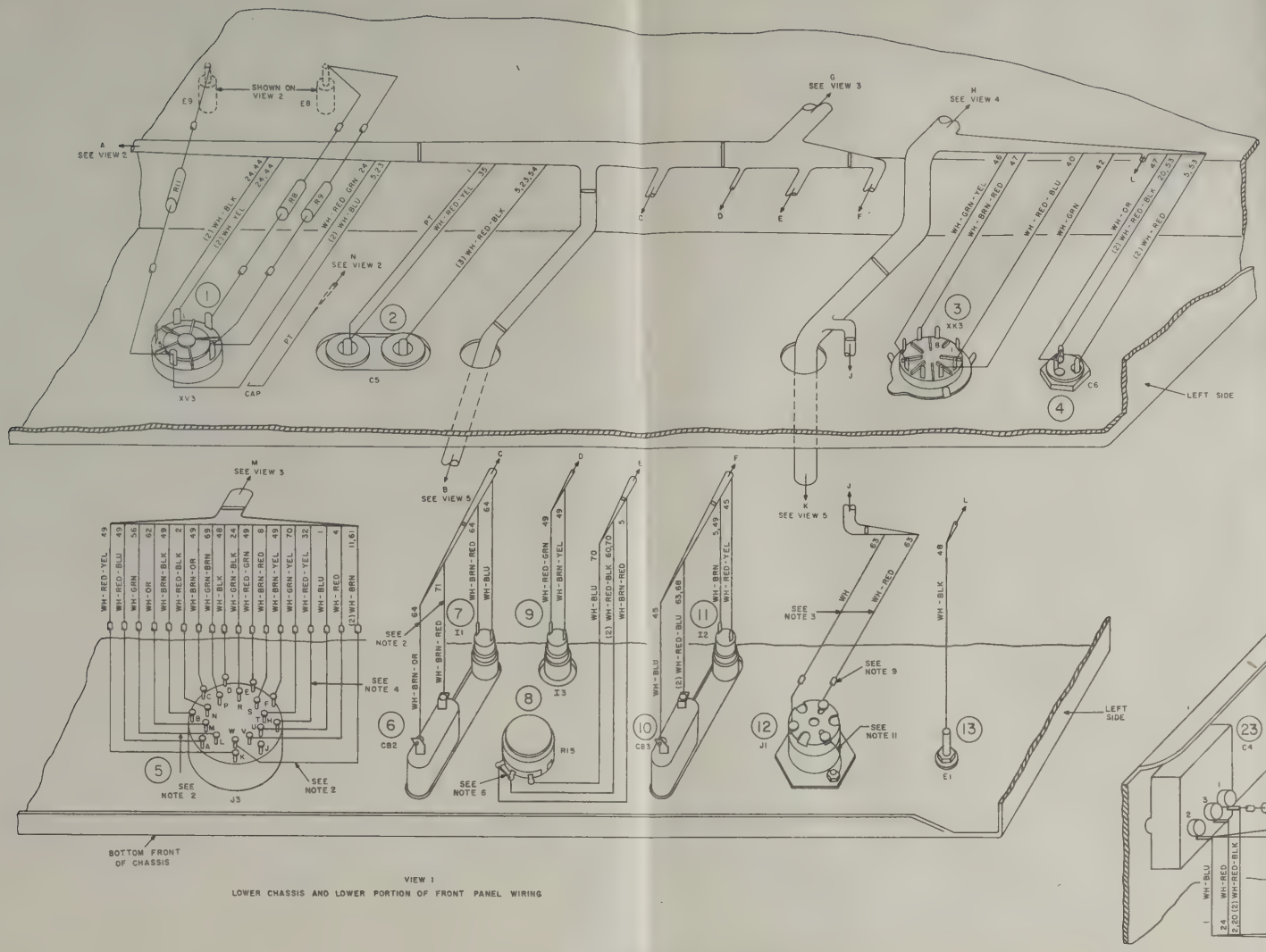


Figure 296. Autotransformer TF–167/TRC, wiring diagram.

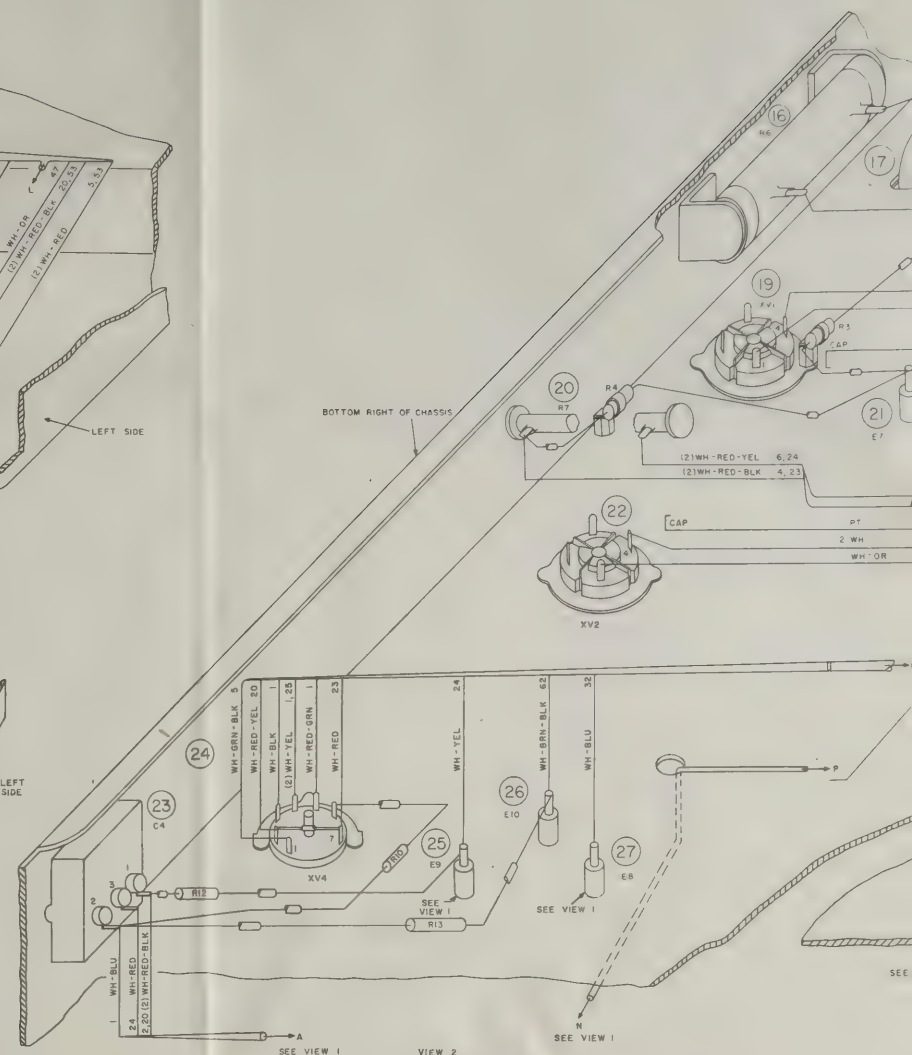
NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 12 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 12 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
4. WIRING NOT OTHERWISE SPECIFIED IS RUN IN A CABLE FORM.
5. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
6. ENDS OF THESE WIRES HAVE BEEN TINNED AND FLATTEND SO THAT THE HEAD OF THE TERMINAL SCREW DOES NOT PROJECT ABOVE THE BASE OF THE RECEPTACLE.
7. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
8. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.

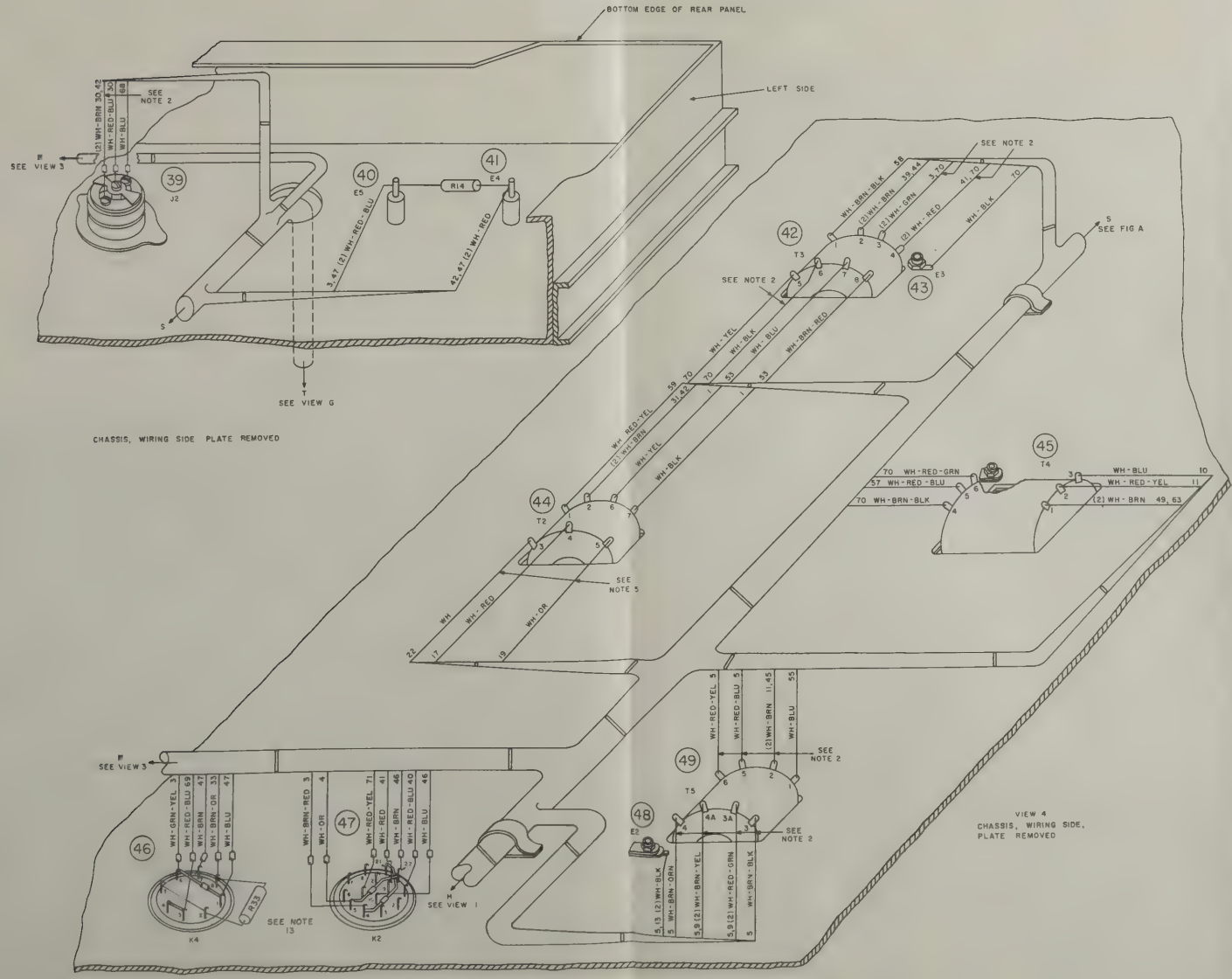
TM 687-325



VIEW 1
LOWER CHASSIS AND LOWER PORTION OF FRONT PANEL WIRING

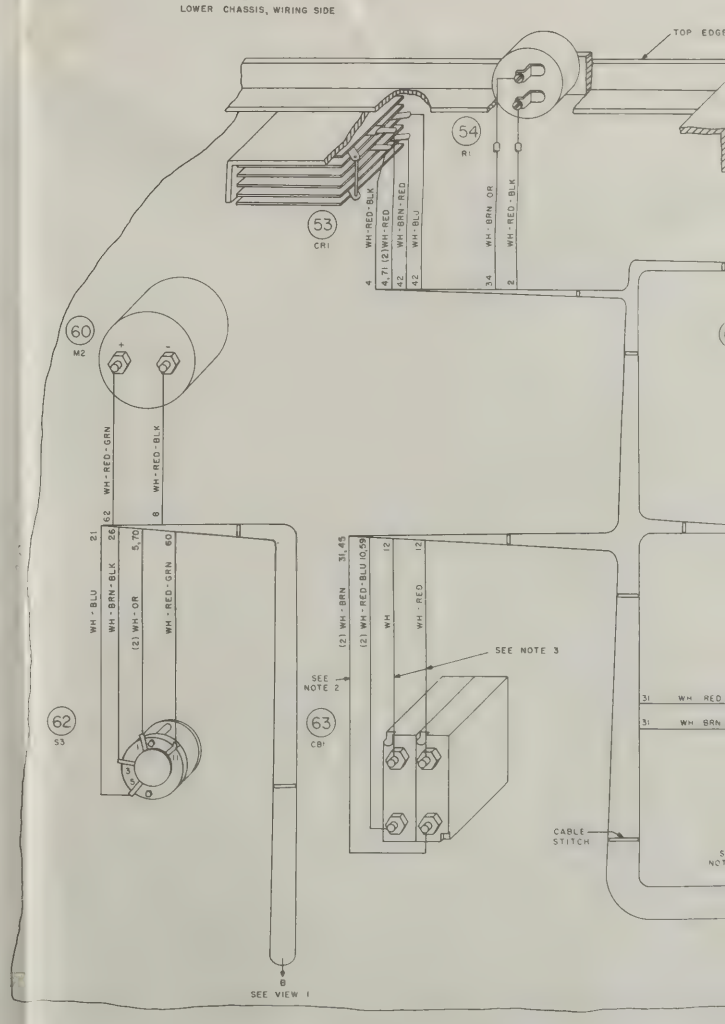


VIEW 2
LOWER CHASSIS, WIRING SIDE



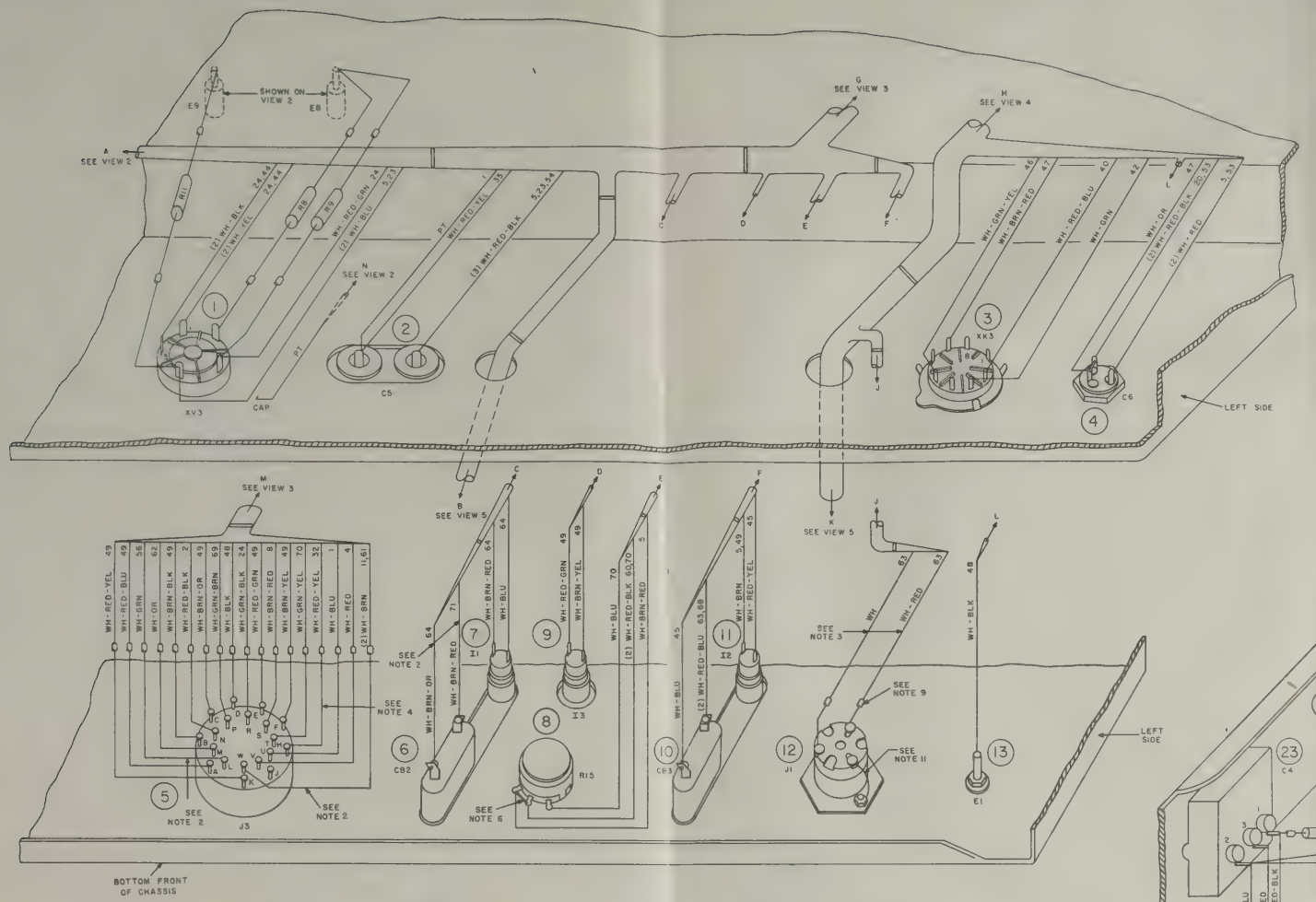
CHASSIS, WIRING SIDE PLATE REMOVED

VIEW 4
CHASSIS, WIRING SIDE, PLATE REMOVED

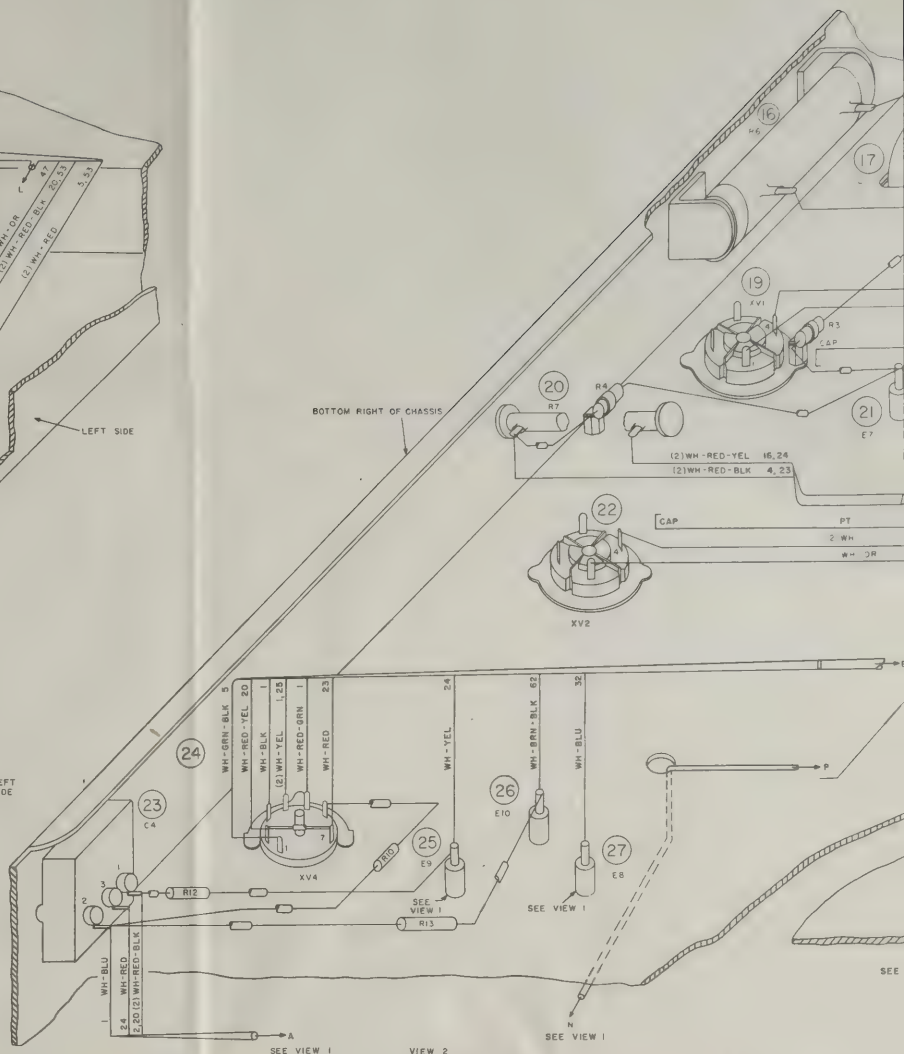


VIEW 5
FRONT PANEL WIRING SIDE

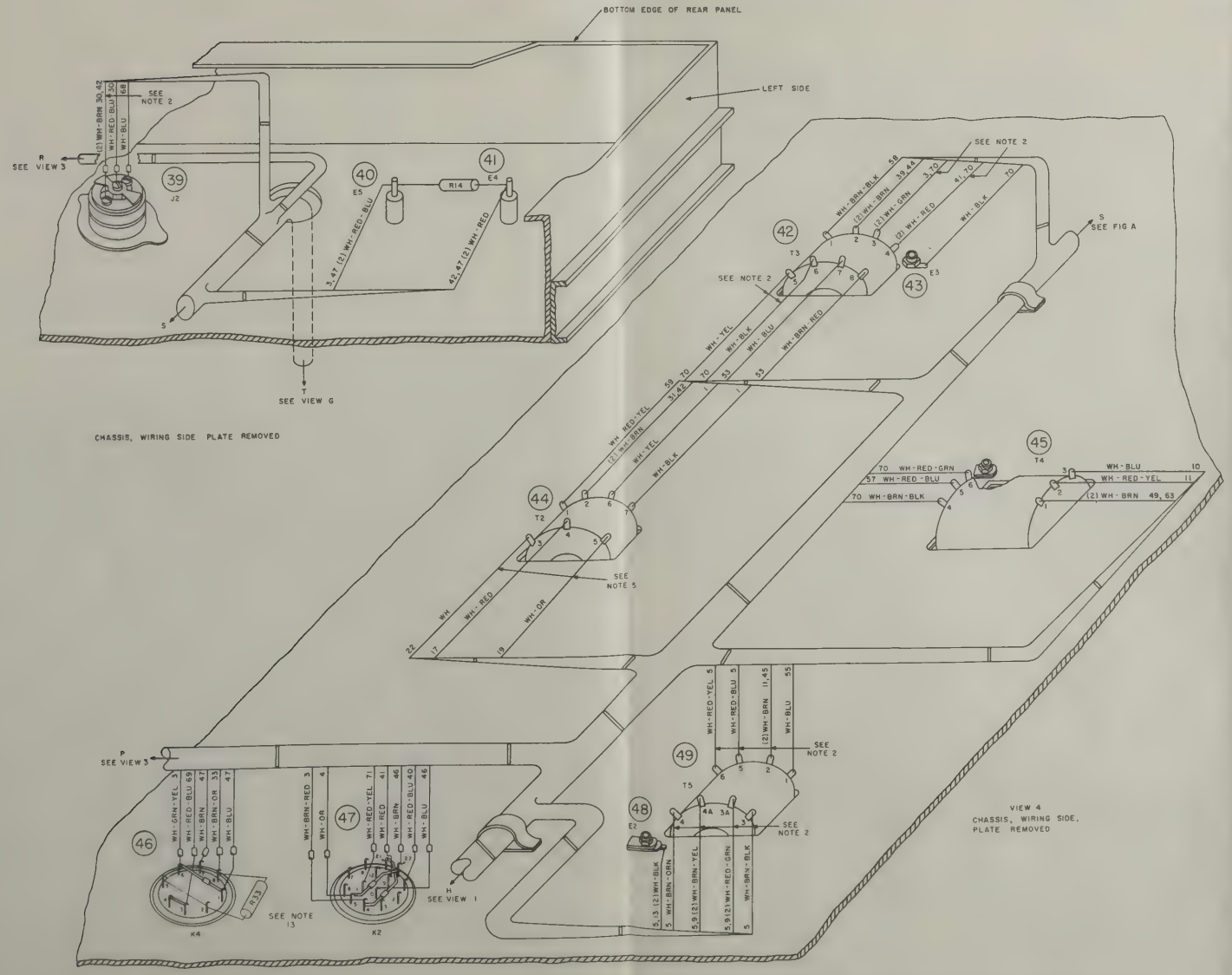
Figure 297. Power Supply PP-685/TRC, less



VIEW 1
LOWER CHASSIS AND LOWER PORTION OF FRONT PANEL WIRING

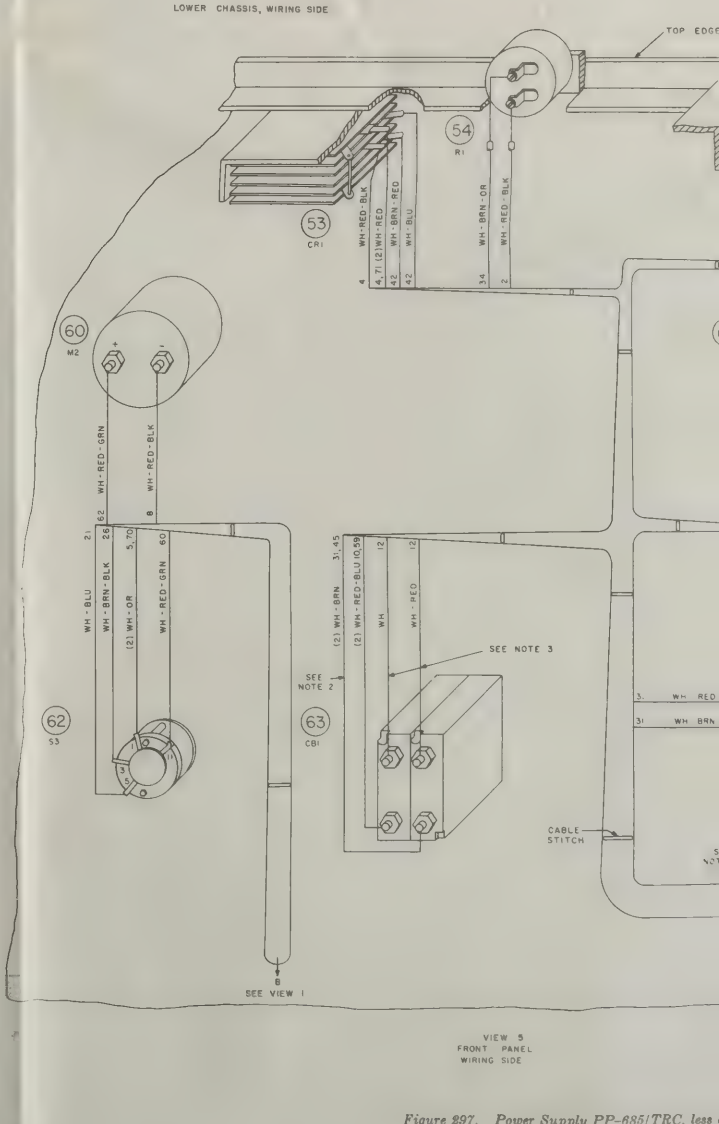


VIEW 2
LOWER CHASSIS, WIRING SIDE



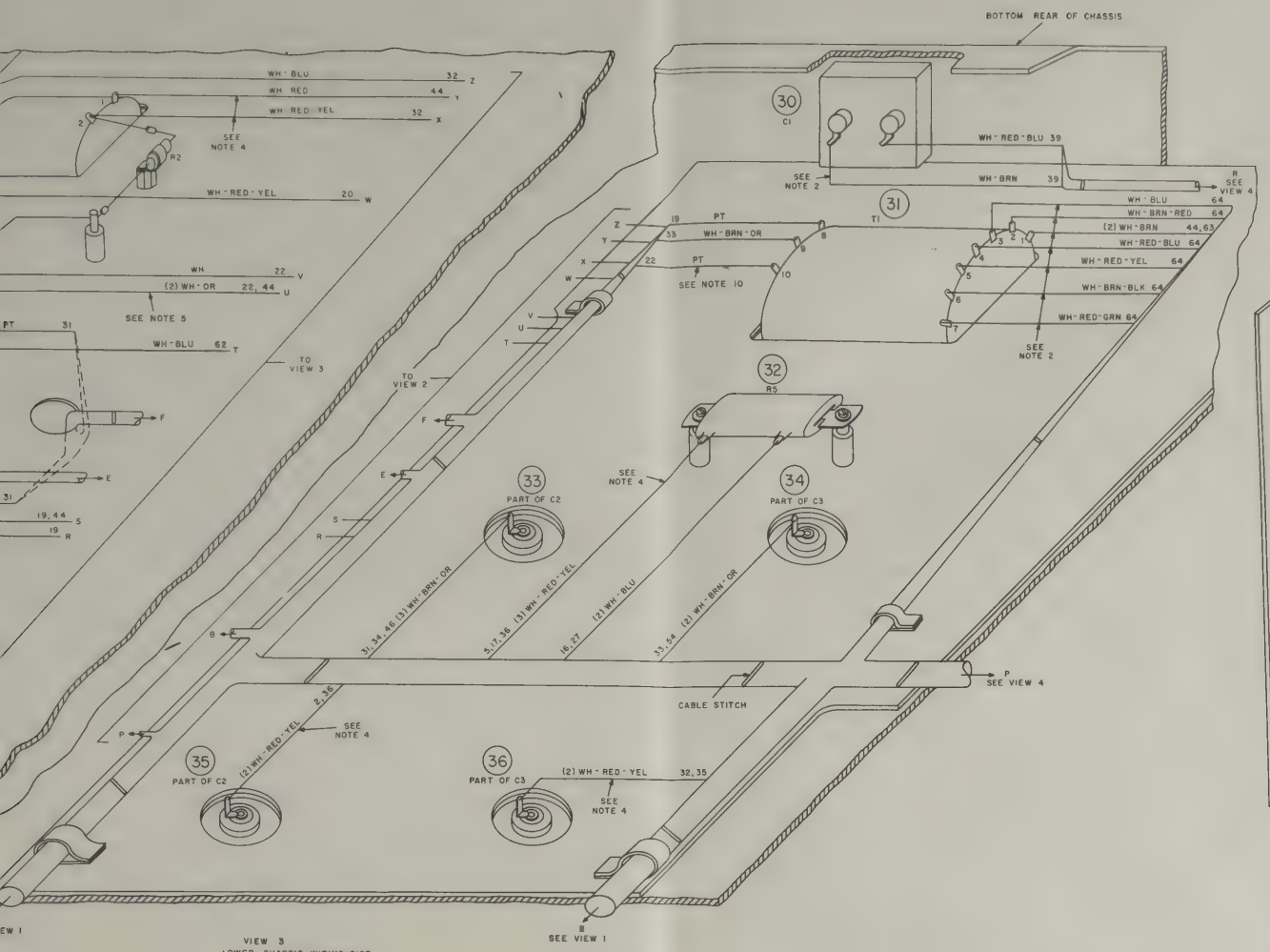
CHASSIS, WIRING SIDE PLATE REMOVED

VIEW 4
CHASSIS, WIRING SIDE, PLATE REMOVED

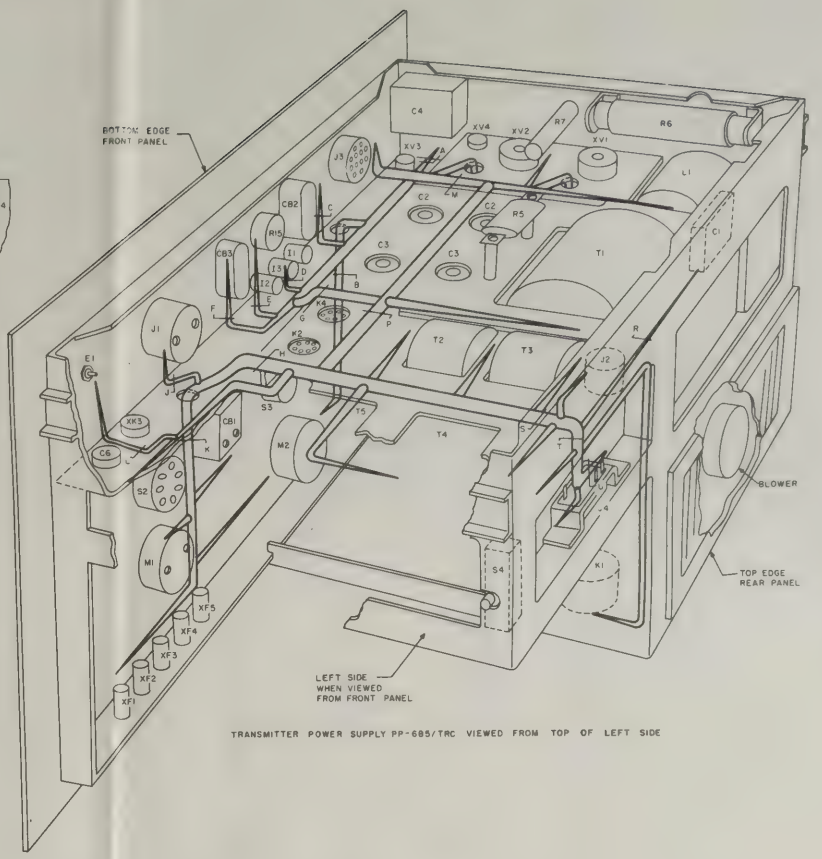


VIEW 5
FRONT PANEL WIRING SIDE

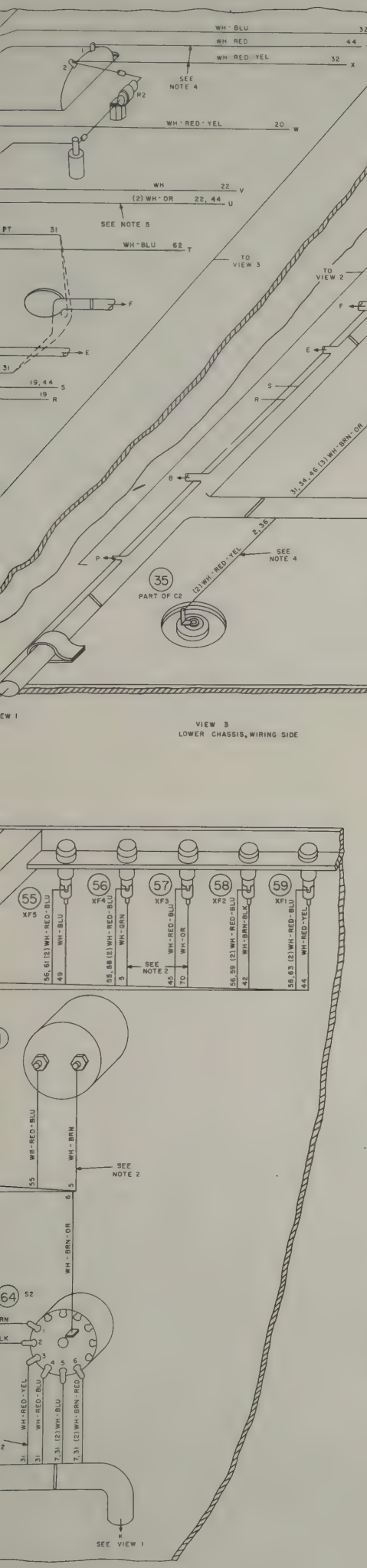
Figure 297. Power Supply PP-685/TRC, less

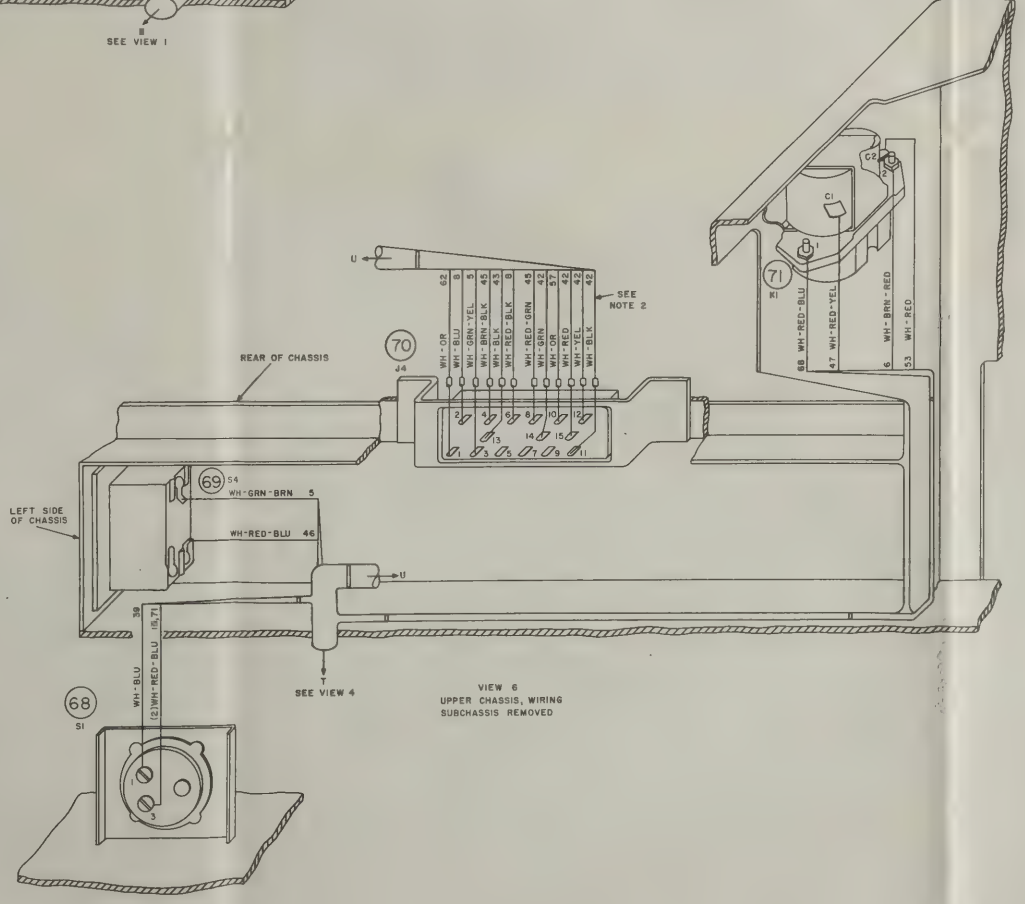


VIEW 3
LOWER CHASSIS, WIRING SIDE

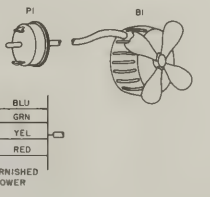


TRANSMITTER POWER SUPPLY PP-685/TRC VIEWED FROM TOP OF LEFT SIDE





VIEW 6
UPPER CHASSIS, WIRING
SUBCHASSIS REMOVED



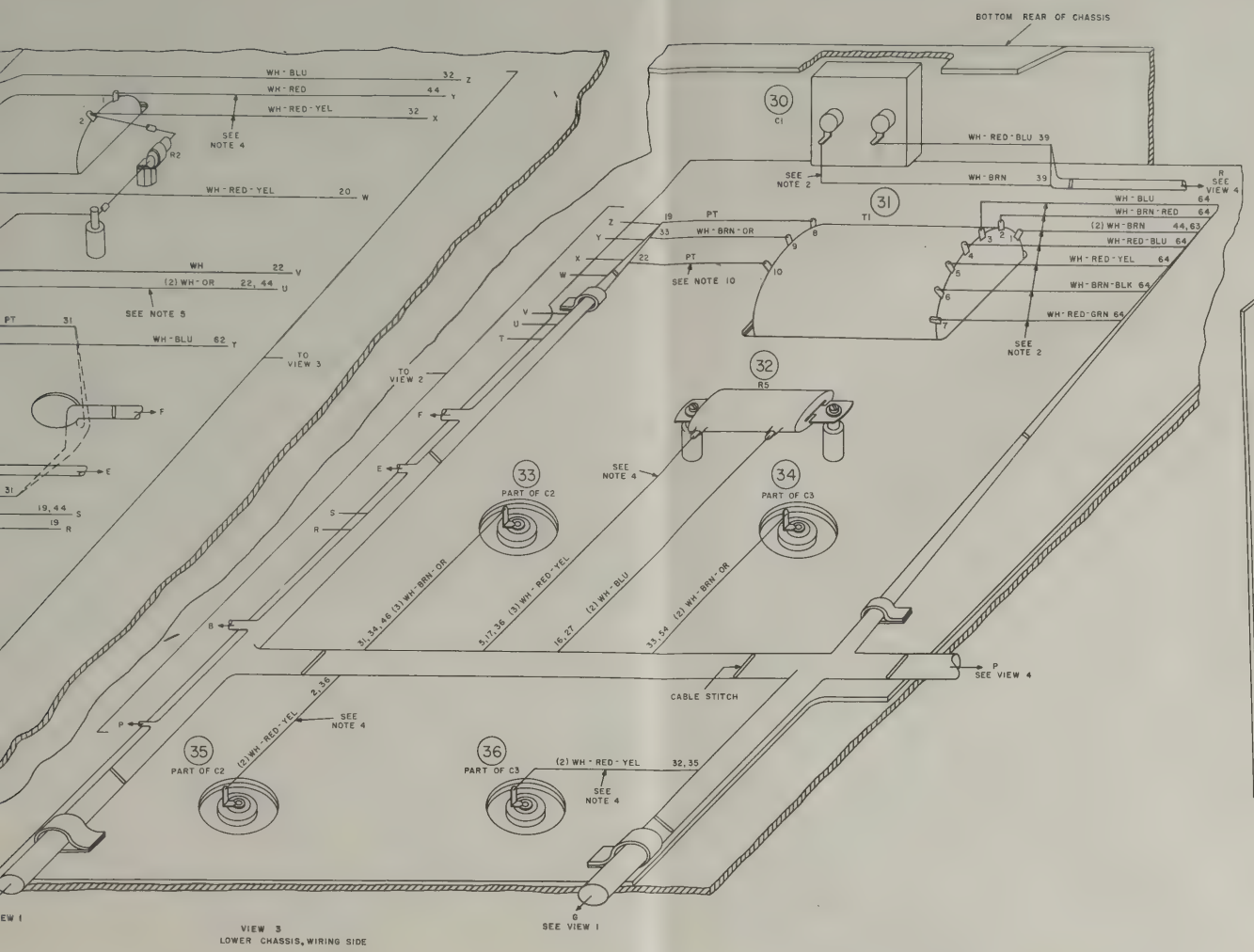
AREA NUMBERS	VIEW
1-13	1
16-27	2
30-36	3
39-49	4
53-64	5

NOTES:

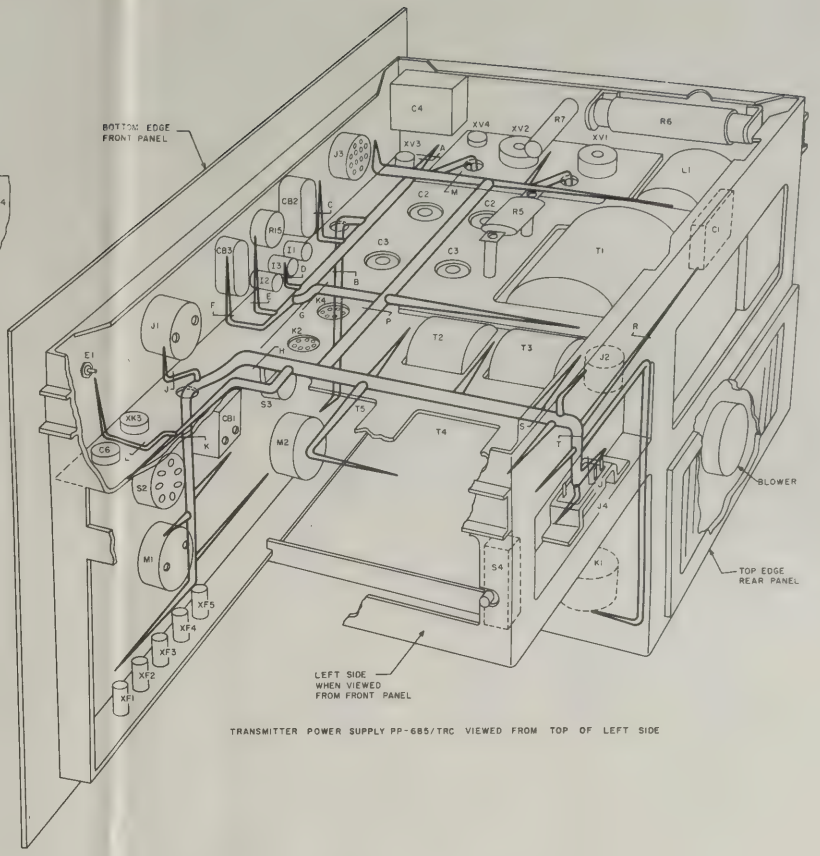
1. WIRING NOT OTHERWISE SPECIFIED IS 20 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. THIS WIRING IS 12 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
4. THIS WIRING IS 20 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC R.M.S AND 1000 VOLTS DC
5. THIS WIRING IS 16 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC R.M.S. AND 1000 VOLTS DC
6. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
7. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
8. ALL WIRING, EXCEPT BARE STRAP WIRE AND JUMPER WIRE, IS RUN IN CABLE FORM
9. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
10. PT DENOTES LEADS WHICH ARE SUPPLIED WITH THE APPARATUS AND RUN IN THE CABLE FORM
11. THIS WIRE IS A JUMPER WIRE.
12. ALL SOLDERED CONNECTIONS ARE COVERED WITH A MOISTURE AND FUNGUS RESISTANT COATING
13. R33 NOT USED ONLY ON ORDER NO 16811-PHILA-51 (SERIAL NUMBERS 1 THROUGH 58)

S3 SW POS AS SHOWN ON SCHEMATIC DIAGRAM	SWITCH PANEL MARKING	SWITCH CONTACTS MADE
1	150 UPPER SCALE	11-1
2	275 LOWER SCALE	11-3
3	750 LOWER SCALE	11-5

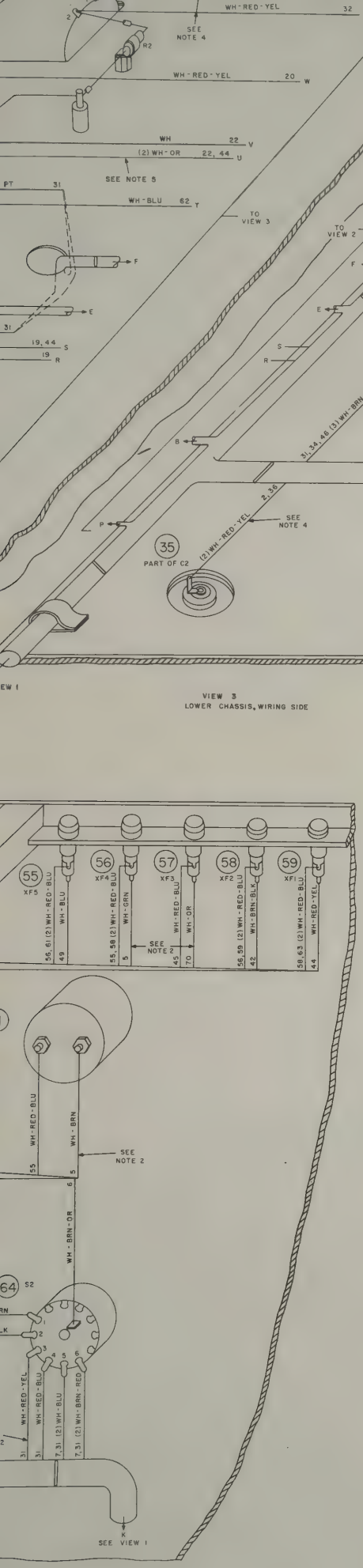
w-voltage rectifier plug-in assembly, wiring diagram.

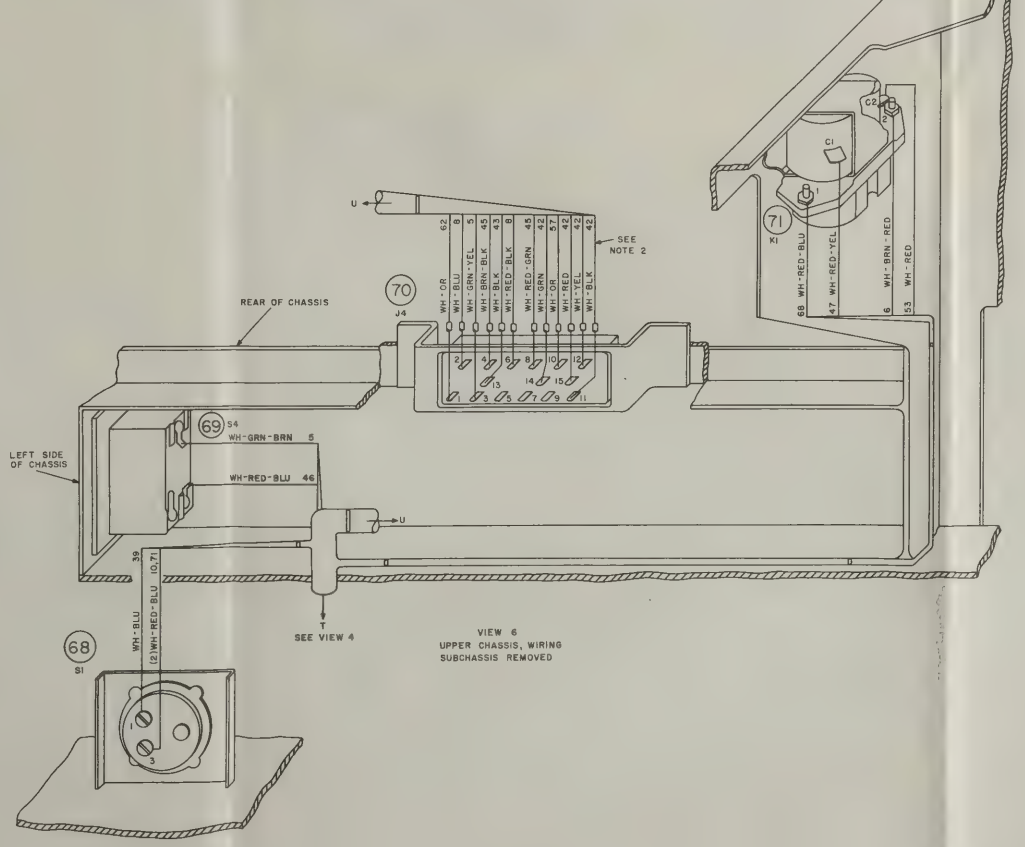


VIEW 3
LOWER CHASSIS, WIRING SIDE



TRANSMITTER POWER SUPPLY PP-685/TRC VIEWED FROM TOP OF LEFT SIDE





VIEW 6
UPPER CHASSIS, WIRING
SUBCHASSIS REMOVED

AREA NUMBERS	VIEW
1-13	1
16-27	2
30-36	3
39-49	4
53-64	5

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 20 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. THIS WIRING IS 12 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
4. THIS WIRING IS 20 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC R.M.S AND 1000 VOLTS DC.
5. THIS WIRING IS 16 GAUGE WIRE WITH AN EXTRUDED NYLON JACKET AND INSULATION WHICH HAS A MAXIMUM RATED WORKING VOLTAGE OF 600 VOLTS AC R.M.S. AND 1000 VOLTS DC.
6. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING
7. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
8. ALL WIRING, EXCEPT BARE STRAP WIRE AND JUMPER WIRE, IS RUN IN CABLE FORM
9. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
10. PT DENOTES LEADS WHICH ARE SUPPLIED WITH THE APPARATUS AND RUN IN THE CABLE FORM.
11. THIS WIRE IS A JUMPER WIRE.
12. ALL SOLDERED CONNECTIONS ARE COVERED WITH A MOISTURE AND FUNGUS RESISTANT COATING
13. R33 NOT USED ONLY ON ORDER NO. 16811-PHILA-51 (SERIAL NUMBERS 1 THROUGH 58).

S3 SW POS AS SHOWN ON SCHEMATIC DIAGRAM	SWITCH PANEL MARKING	SWITCH CONTACTS MADE
1	150 UPPER SCALE	11-1
2	275 LOWER SCALE	11-3
3	750 LOWER SCALE	11-5

o-voltage rectifier plug-in assembly, wiring diagram.

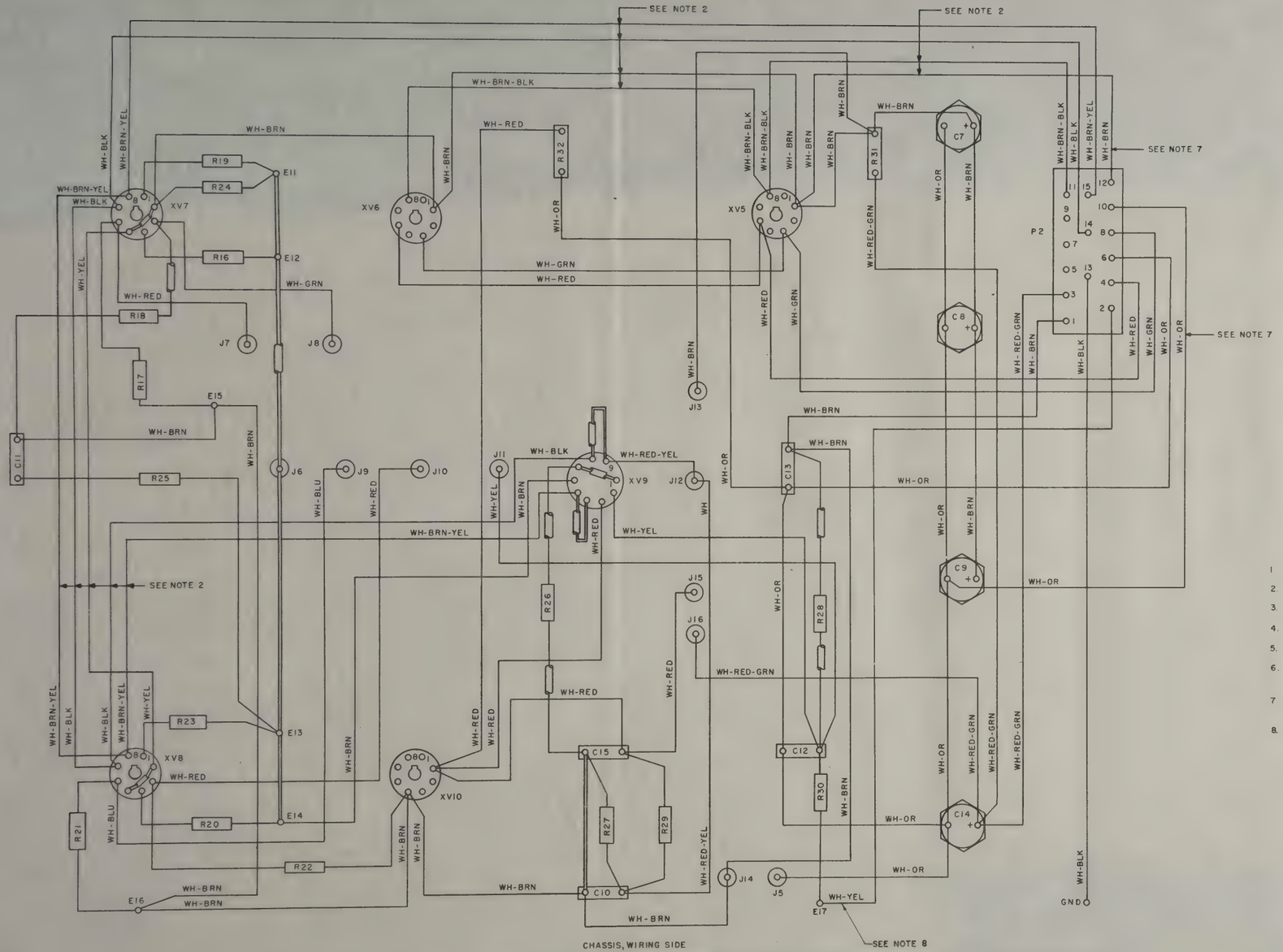


Figure 298. Power Supply PP-685/TRC low-voltage rectifier plug-in assembly, wiring diagram.

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 20 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
6. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
7. THIS TERMINAL IS COVERED WITH 1/2 INCH IMPREGNATED FIBRE GLASS SLEEVING.
8. SOME PLUG-IN UNITS ARE FURNISHED WITH R30 CONNECTED DIRECTLY TO TERMINAL 2 OF P2, IN PLACE OF AS SHOWN.

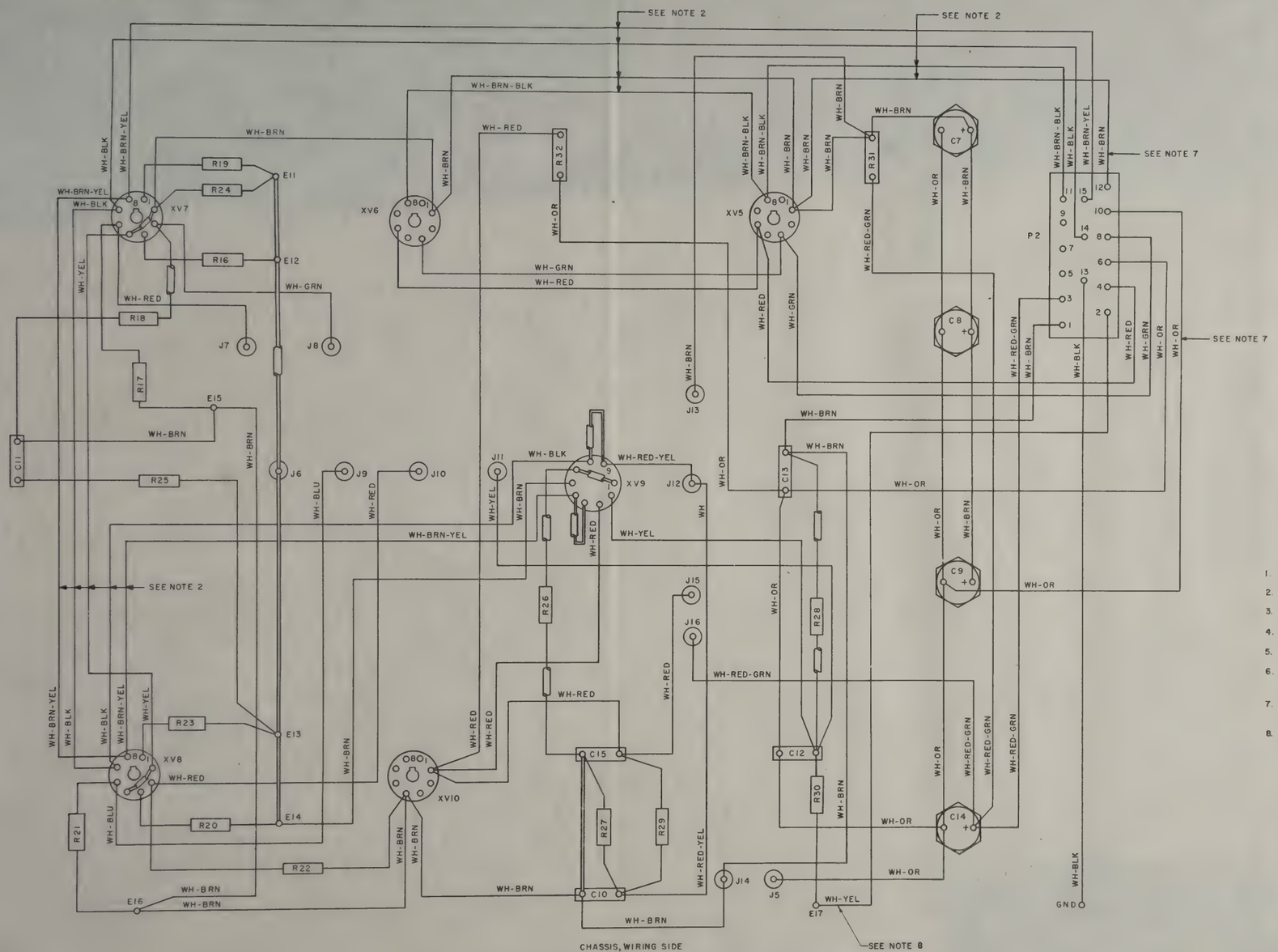
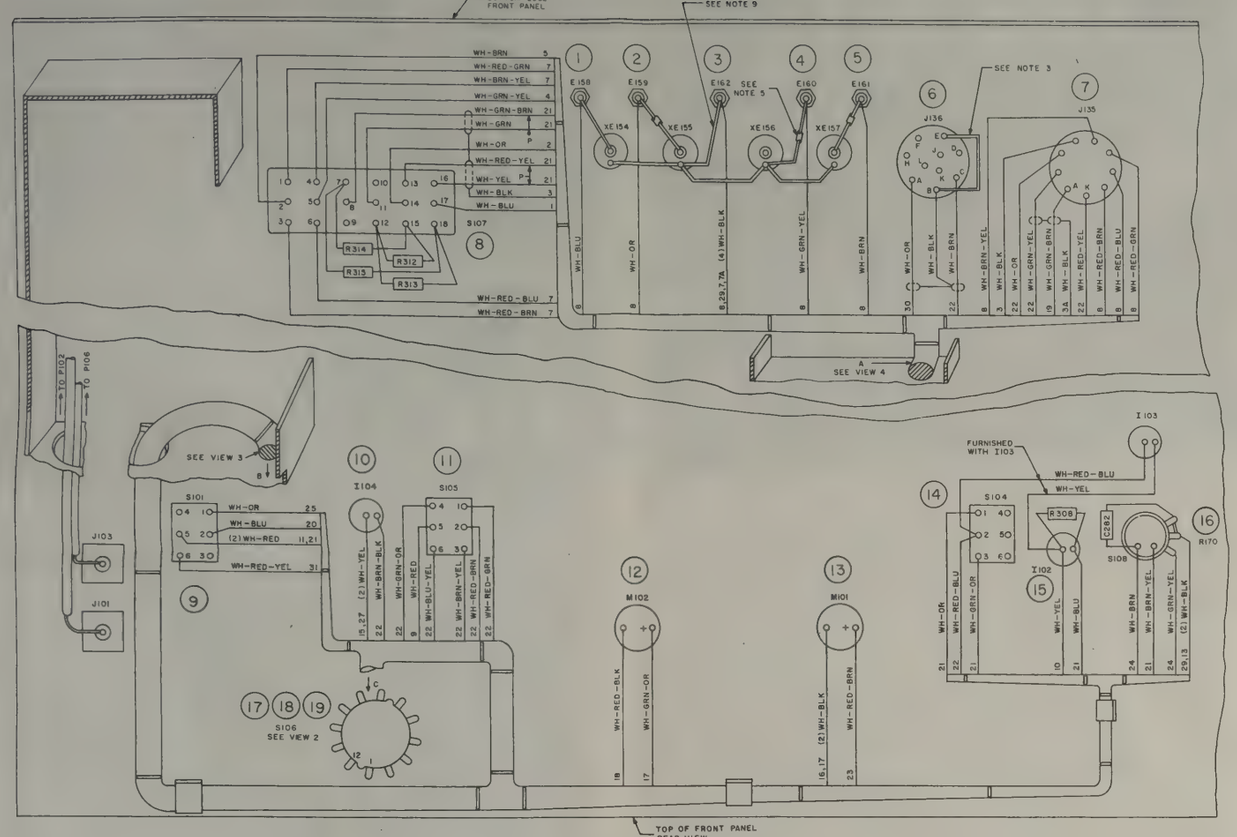


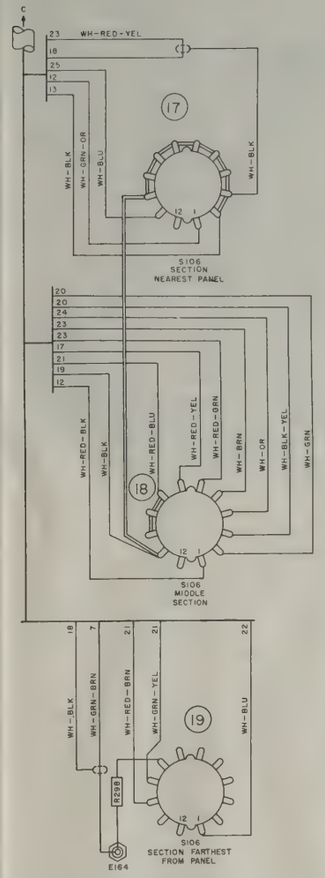
Figure 298. Power Supply PP-685/TRC low-voltage rectifier plug-in assembly, wiring diagram.

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 20 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 16 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
3. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
6. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
7. THIS TERMINAL IS COVERED WITH 1/2 INCH IMPREGNATED FIBRE GLASS SLEEVING.
8. SOME PLUG-IN UNITS ARE FURNISHED WITH R30 CONNECTED DIRECTLY TO TERMINAL 2 OF P2, IN PLACE OF AS SHOWN.



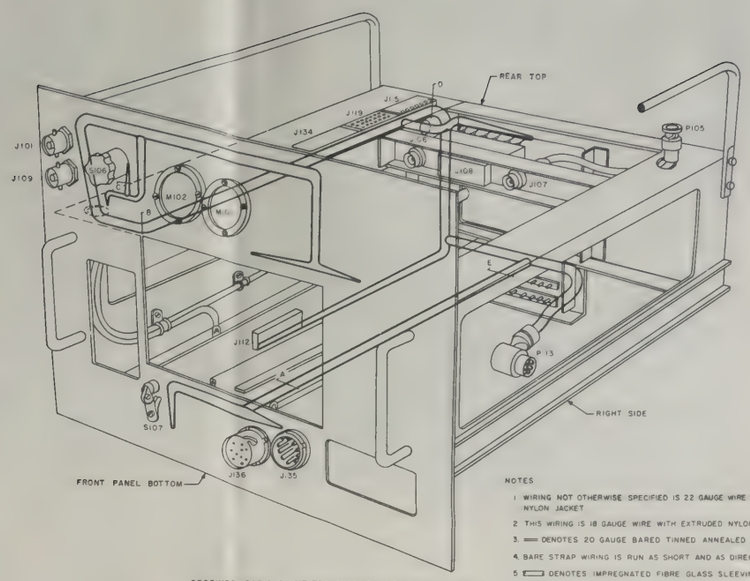
VIEW 1
FRONT PANEL WIRING SIDE



VIEW 2
MEASURE SWITCH AS VIEWED FROM WIRING SIDE

MEASURE SWITCH INFORMATION

S106 SW POS AS SHOWN ON WIRING DIAGRAM	SWITCH PANEL MARKING	SWITCH CONTACTS MADE SECTIONS 1, 2 AND 3 REAR
1	OSC	1-2
2	MIXER	1-3
3	SIG LEV	1-4
4	1ST LIM	1-5
5	2ND LIM	1-6
6	AFC BAL	1-7
7	MTR CAL	1-8
8	IKC OUT	1-9
9	68KC OUT	1-10
10	B+	1-11

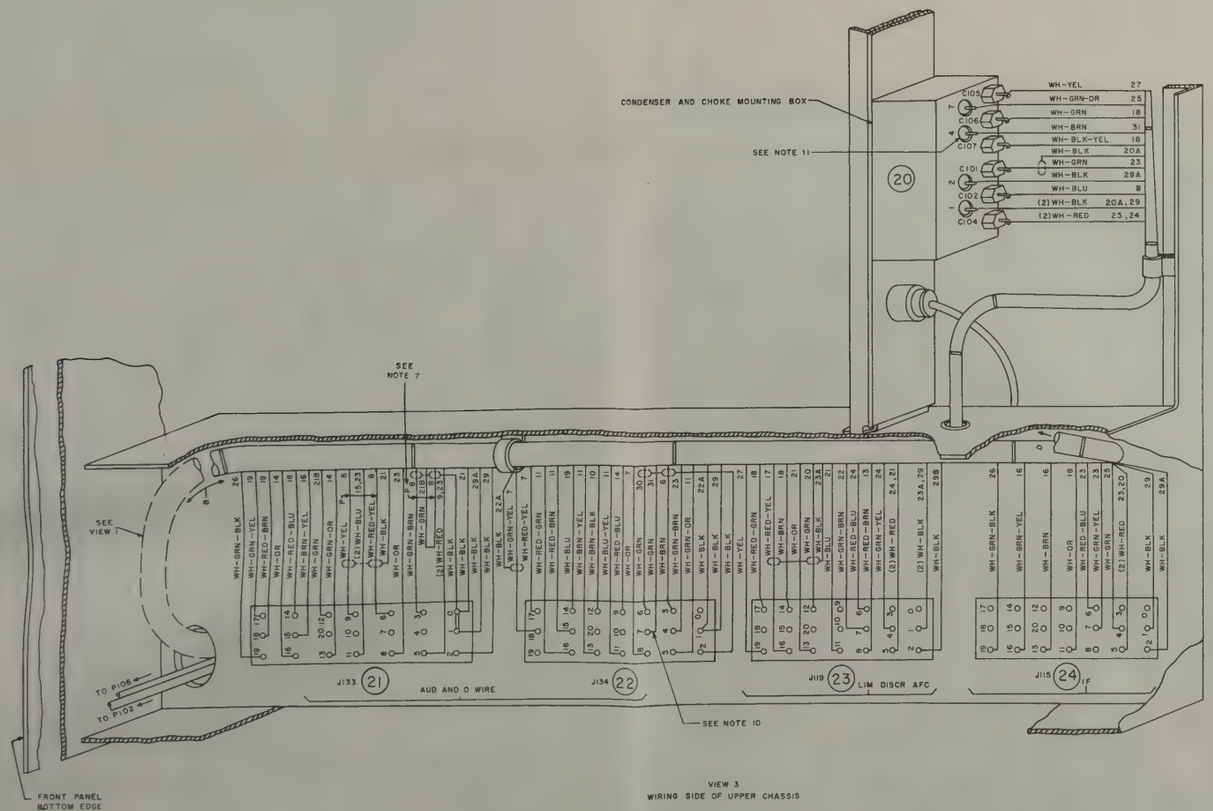


RECEIVER, RADIO R-417/TRC CHASSIS VIEWED FROM FRONT

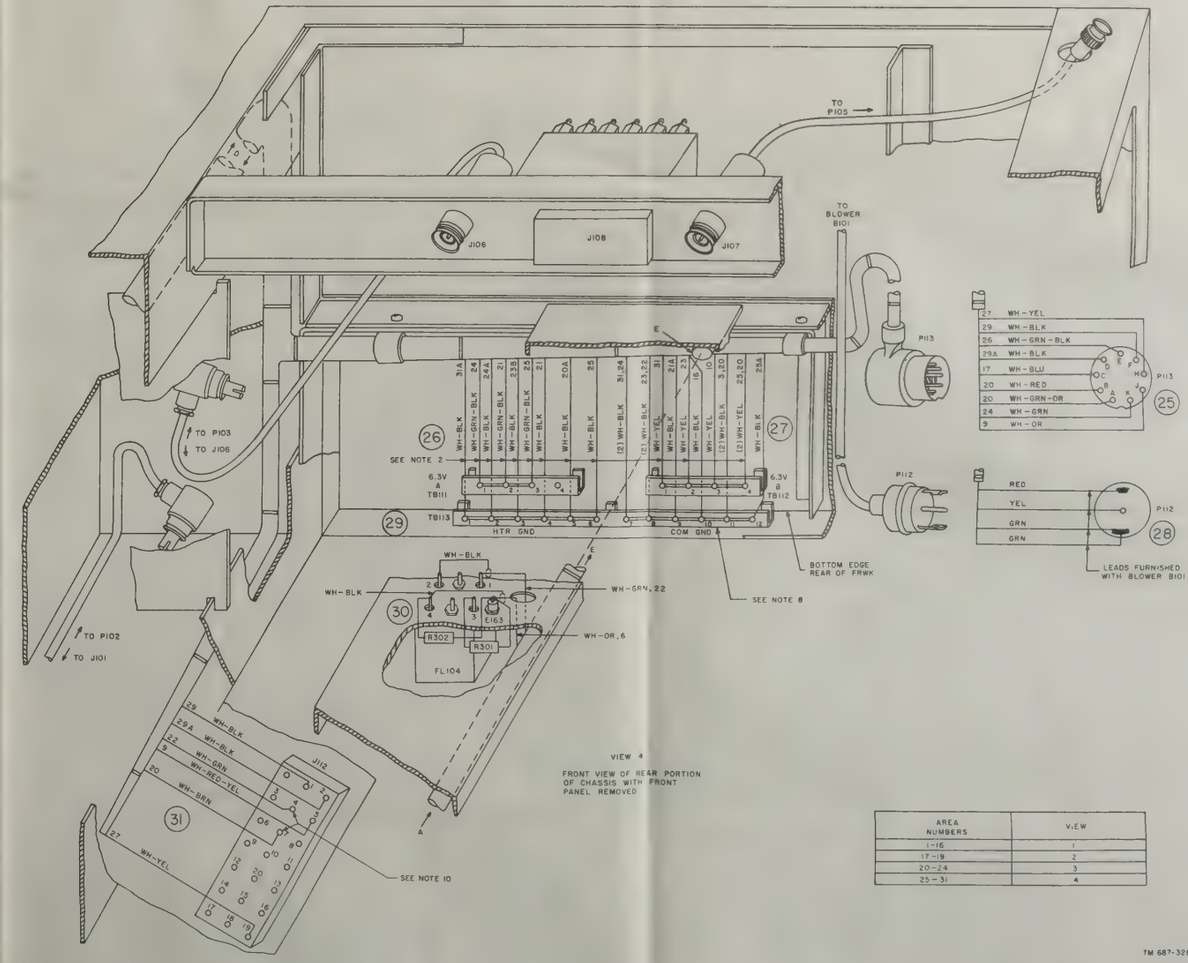
NOTES

1 WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET
2 THIS WIRING IS 18 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3 ═ DENOTES 20 GAUGE BARED TINNED ANNEALED COPPER WIRING
4 BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
5 ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
6 WIRING NOT OTHERWISE SPECIFIED IS RUN IN CABLE FORM
7. P DENOTES PAIRED LEADS WHICH ARE TWISTED
8 PASS LEADS CONNECTING TO TB113 UNDER STRIP BEFORE CONNECTING TO TERMINALS
9 SOME UNITS ARE FURNISHED WITH THE FOLLOWING CHANGES
A BARE WIRES CONNECTING TO E162, AND XE154 THROUGH XE157 REMOVED
B GROUNDING LUG ADDED NEAR E162
C FOUR WH-BLK LEADS FROM STATIONS 8, 29.7, AND 7A CONNECTED TO GROUNDING LUG
D SHORT 20 GAUGE BARE TINNED ANNEALED COPPER STRAP CONNECTED FROM ADDED GROUNDING LUG TO E162.
10 SOME UNITS ARE FURNISHED WITH THE FOLLOWING CHANGES

STATION	TERMINAL	PRESENT WIRING COLOR CODE	PRESENT WIRING STATION	CHANGED WIRING COLOR CODE	CHANGED WIRING STATION
22	3	WH-GRN	31	WH-GRN	20
20	4	WH-BRN	31	WH-GRN	22
31	4	WH-GRN	22	REMOVED	
31	7	WH-BRN	20	REMOVED	



VIEW 3
WIRING SIDE OF UPPER CHASSIS

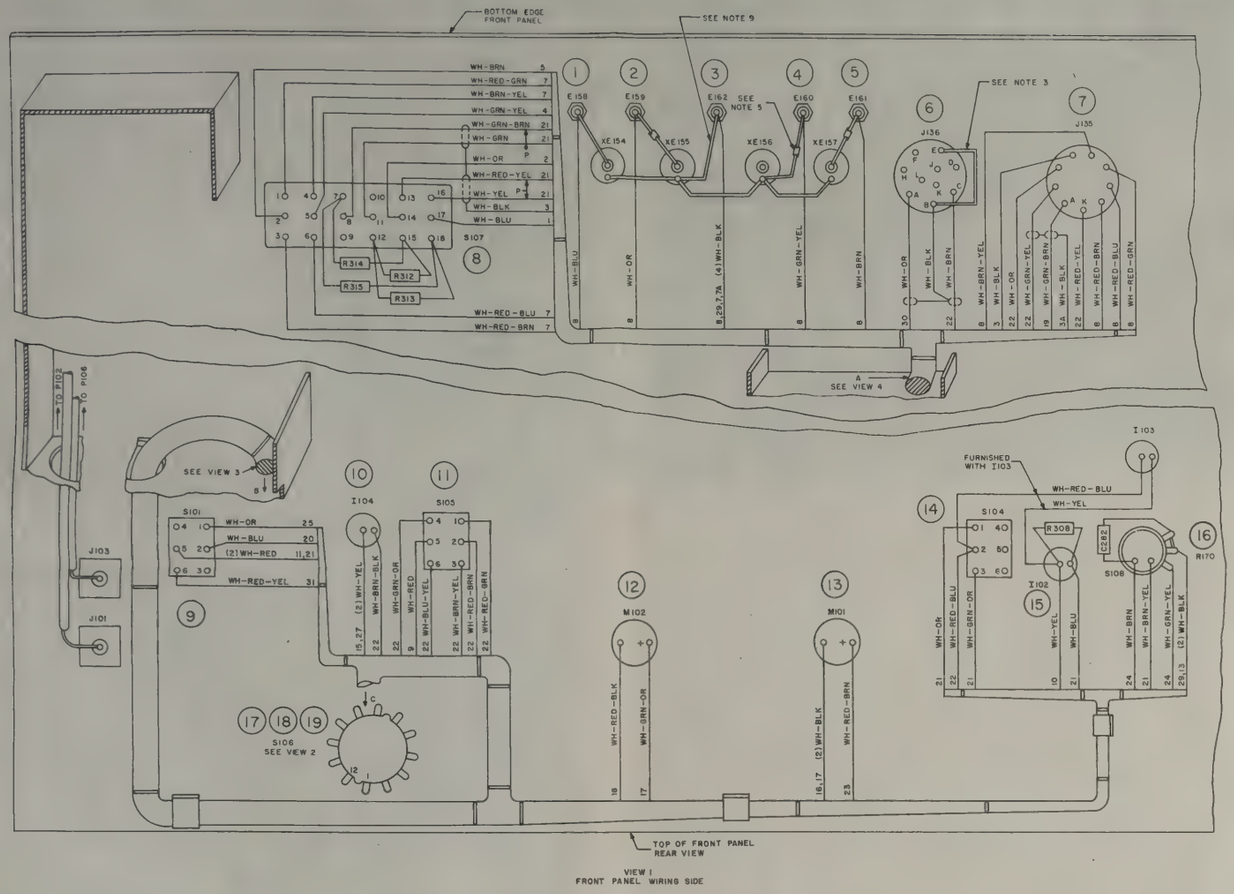


VIEW 4
FRONT VIEW OF REAR PORTION OF CHASSIS WITH FRONT PANEL REMOVED

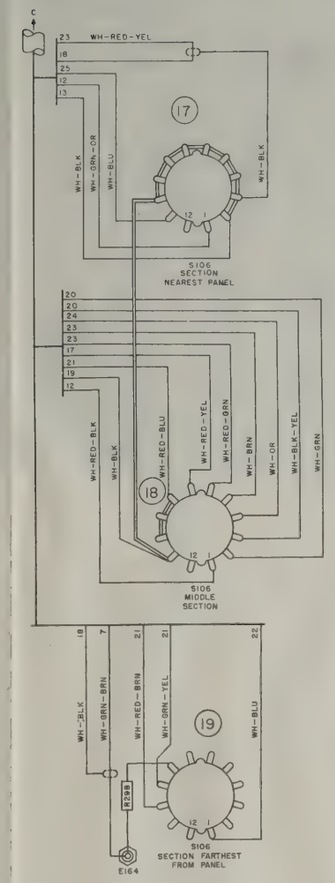
AREA NUMBERS	VIEW
1-16	1
17-19	2
20-24	3
25-31	4

Figure 299. Receiver frame and front panel, wiring diagram.

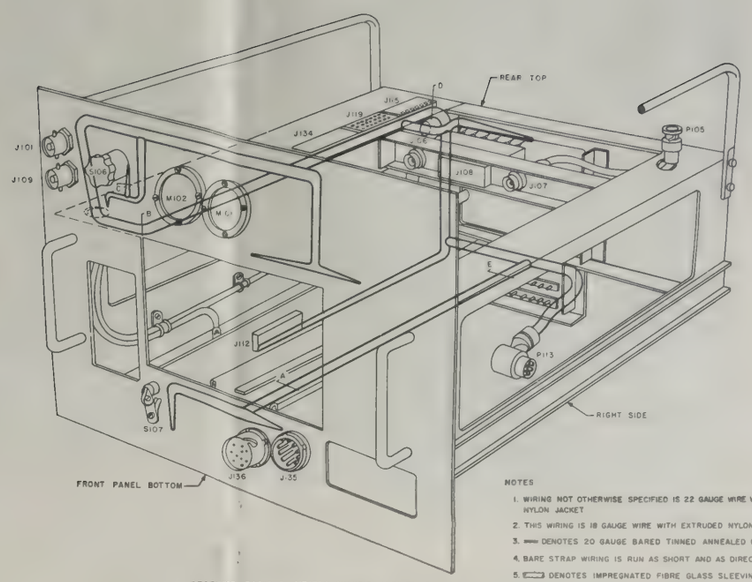
381345 O - 56 (In pocket)



VIEW 1
FRONT PANEL WIRING SIDE



VIEW 2
MEASURE SWITCH AS VIEWED FROM WIRING SIDE



RECEIVER, RADIO R-417/TRC CHASSIS VIEWED FROM FRONT

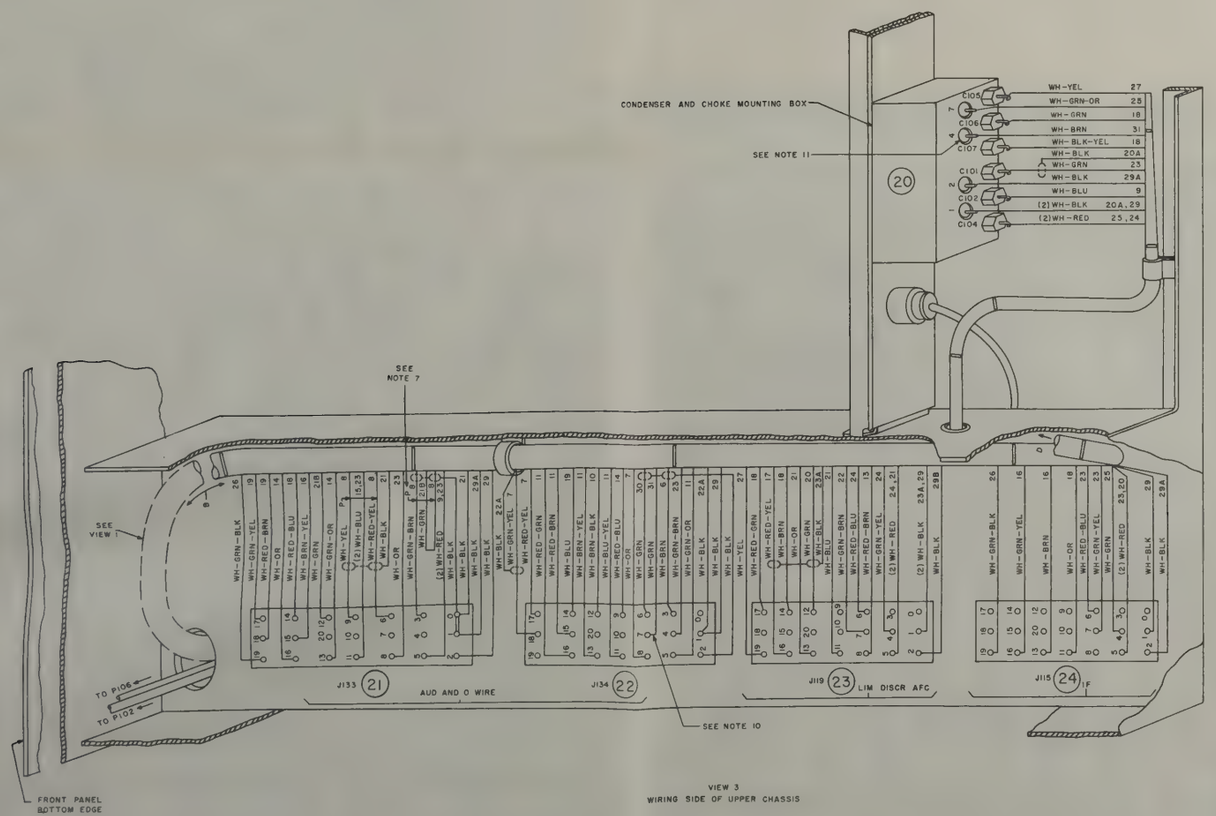
MEASURE SWITCH INFORMATION

S106 SW POS AS SHOWN ON WIRING DIAGRAM	SWITCH PANEL MARKING	SWITCH CONTACTS MADE SECTIONS 1, 2 AND 3 REAR
1	OSC	1-2
2	MIXER	1-3
3	SIG LEV	1-4
4	1ST LIM	1-5
5	2ND LIM	1-6
6	AFC BAL	1-7
7	MTR CAL	1-8
8	IKC OUT	1-9
9	68KC OUT	1-10
10	B+	1-11

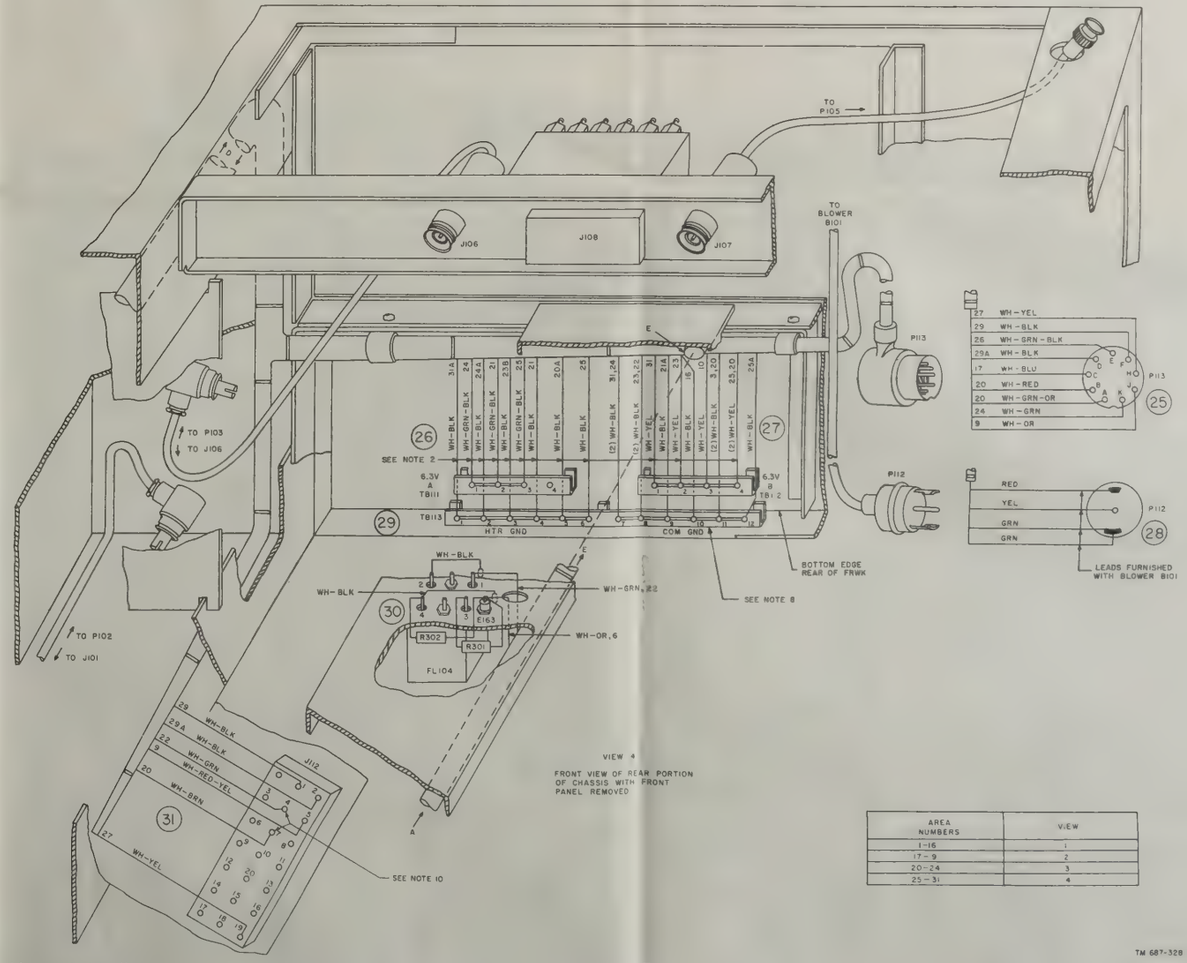
NOTES

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. THIS WIRING IS 18 GAUGE WIRE WITH EXTRUDED NYLON JACKET
3. ═ DENOTES 20 GAUGE BARED TINNED ANNEALED COPPER WIRING
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING
6. WIRING NOT OTHERWISE SPECIFIED IS RUN IN CABLE FORM
7. P DENOTES PAIRED LEADS WHICH ARE TWISTED
8. PASS LEADS CONNECTING TO TB113 UNDER STRIP BEFORE CONNECTING TO TERMINALS
9. SOME UNITS ARE FURNISHED WITH THE FOLLOWING CHANGES.
   A. BARE WIRES CONNECTING TO E162, AND XE154 THROUGH XE157 REMOVED.
   B. GROUNDING LUG ADDED NEAR E162.
   C. FOUR WH-BLK LEADS FROM STATIONS 8,29,7, AND 7A CONNECTED TO GROUNDING LUG
   D. SHORT 20 GAUGE BARE TINNED ANNEALED COPPER STRAP CONNECTED FROM ADDED GROUNDING LUG TO E162
10. SOME UNITS ARE FURNISHED WITH THE FOLLOWING CHANGES

STATION	TERMINAL	PRESENT WIRING		CHANGED WIRING	
		COLOR CODE	STATION	COLOR CODE	STATION
22	3	WH-GRN	31	WH-GRN	20
20	4	WH-BRN	31	WH-GRN	22
31	4	WH-GRN	22	REMOVED	
31	7	WH-BRN	20	REMOVED	



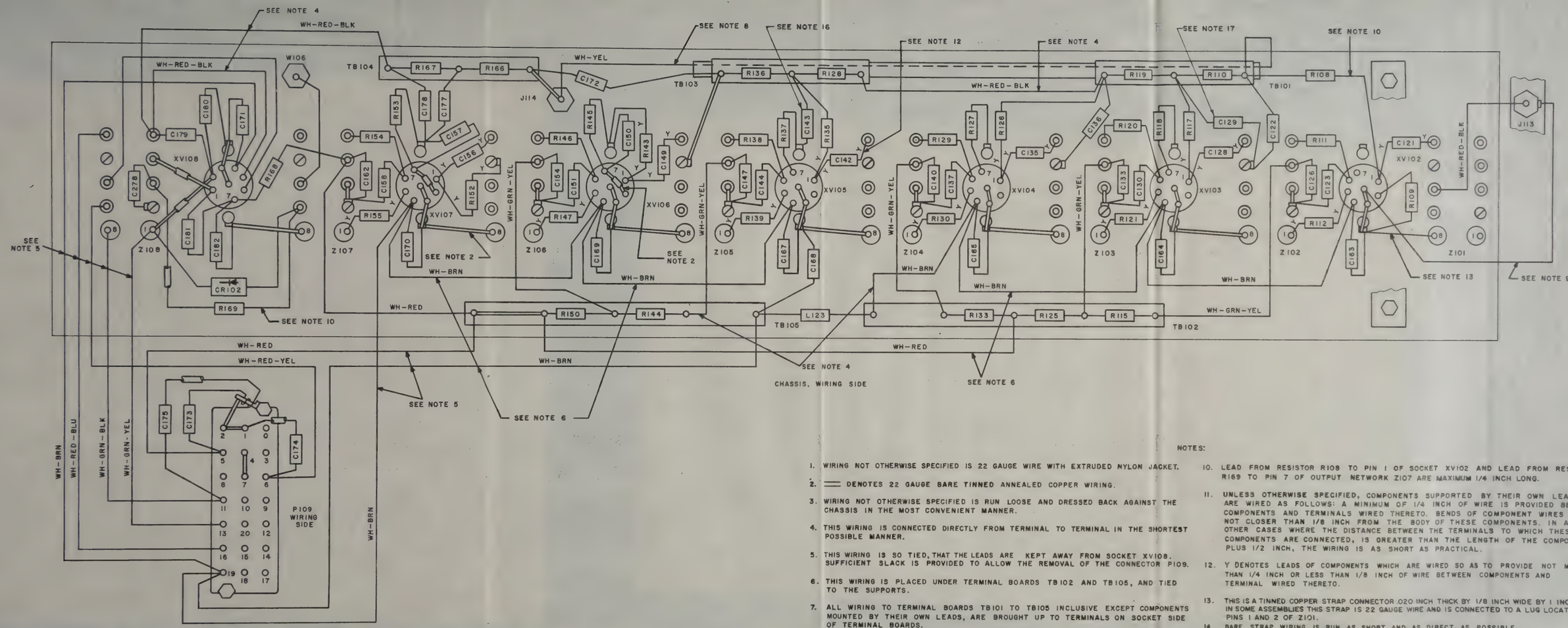
VIEW 3
WIRING SIDE OF UPPER CHASSIS



VIEW 4
FRONT VIEW OF REAR PORTION OF CHASSIS WITH FRONT PANEL REMOVED

AREA NUMBERS	VIEW
1-16	1
17-9	2
20-24	3
25-31	4

Figure 299. Receiver frame and front panel, wiring diagram.



NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 22 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. THIS WIRING IS SO TIED, THAT THE LEADS ARE KEPT AWAY FROM SOCKET XV108. SUFFICIENT SLACK IS PROVIDED TO ALLOW THE REMOVAL OF THE CONNECTOR P109.
6. THIS WIRING IS PLACED UNDER TERMINAL BOARDS TB102 AND TB105, AND TIED TO THE SUPPORTS.
7. ALL WIRING TO TERMINAL BOARDS TB101 TO TB105 INCLUSIVE EXCEPT COMPONENTS MOUNTED BY THEIR OWN LEADS, ARE BROUGHT UP TO TERMINALS ON SOCKET SIDE OF TERMINAL BOARDS.
8. THIS WIRE IS RUN THROUGH BRASS TUBE FOR SHIELDING PURPOSES.
9. TAB OF TERMINAL HAS BEEN CUT TO SHORTEST LENGTH AND SOLDERED TO CENTER SLEEVE OF SOCKET XV102.
10. LEAD FROM RESISTOR R108 TO PIN 1 OF SOCKET XV102 AND LEAD FROM RESISTOR R169 TO PIN 7 OF OUTPUT NETWORK Z107 ARE MAXIMUM 1/4 INCH LONG.
11. UNLESS OTHERWISE SPECIFIED, COMPONENTS SUPPORTED BY THEIR OWN LEADS, ARE WIRED AS FOLLOWS: A MINIMUM OF 1/4 INCH OF WIRE IS PROVIDED BETWEEN COMPONENTS AND TERMINALS WIRED THERETO. BENDS OF COMPONENT WIRES ARE NOT CLOSER THAN 1/8 INCH FROM THE BODY OF THESE COMPONENTS. IN ALL OTHER CASES WHERE THE DISTANCE BETWEEN THE TERMINALS TO WHICH THESE COMPONENTS ARE CONNECTED, IS GREATER THAN THE LENGTH OF THE COMPONENT PLUS 1/2 INCH, THE WIRING IS AS SHORT AS PRACTICAL.
12. Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENTS AND TERMINAL WIRED THERETO.
13. THIS IS A TINNED COPPER STRAP CONNECTOR .020 INCH THICK BY 1/8 INCH WIDE BY 1 INCH LONG. IN SOME ASSEMBLIES THIS STRAP IS 22 GAUGE WIRE AND IS CONNECTED TO A LUG LOCATED BETWEEN PINS 1 AND 2 OF Z101.
14. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
15. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
16. IN SOME ASSEMBLIES C143 SHUNTS R136.
17. IN SOME ASSEMBLIES C129 IS GROUNDED AT THE SAME LUG AS R118.

TM 687-330

Figure 302. Receiver if. amplifier plug-in assembly, wiring diagram.

381345 O - 56 (In pocket)

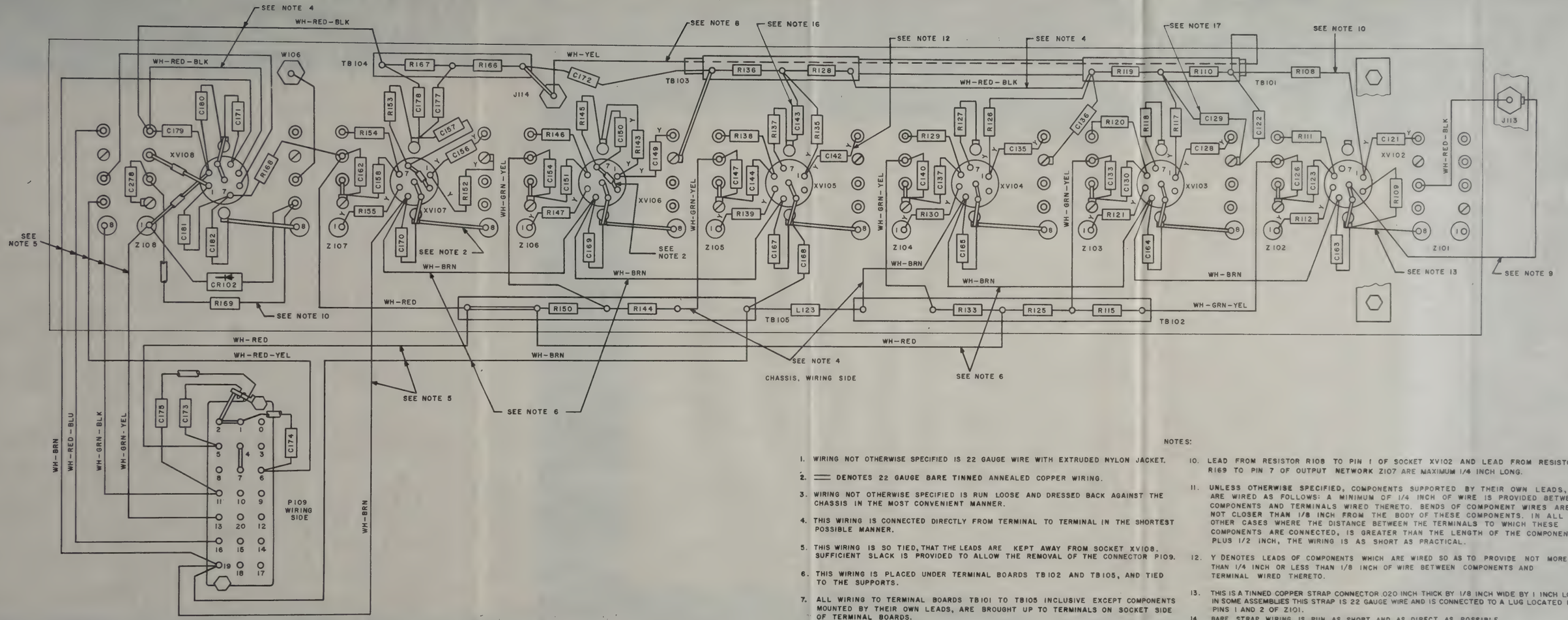


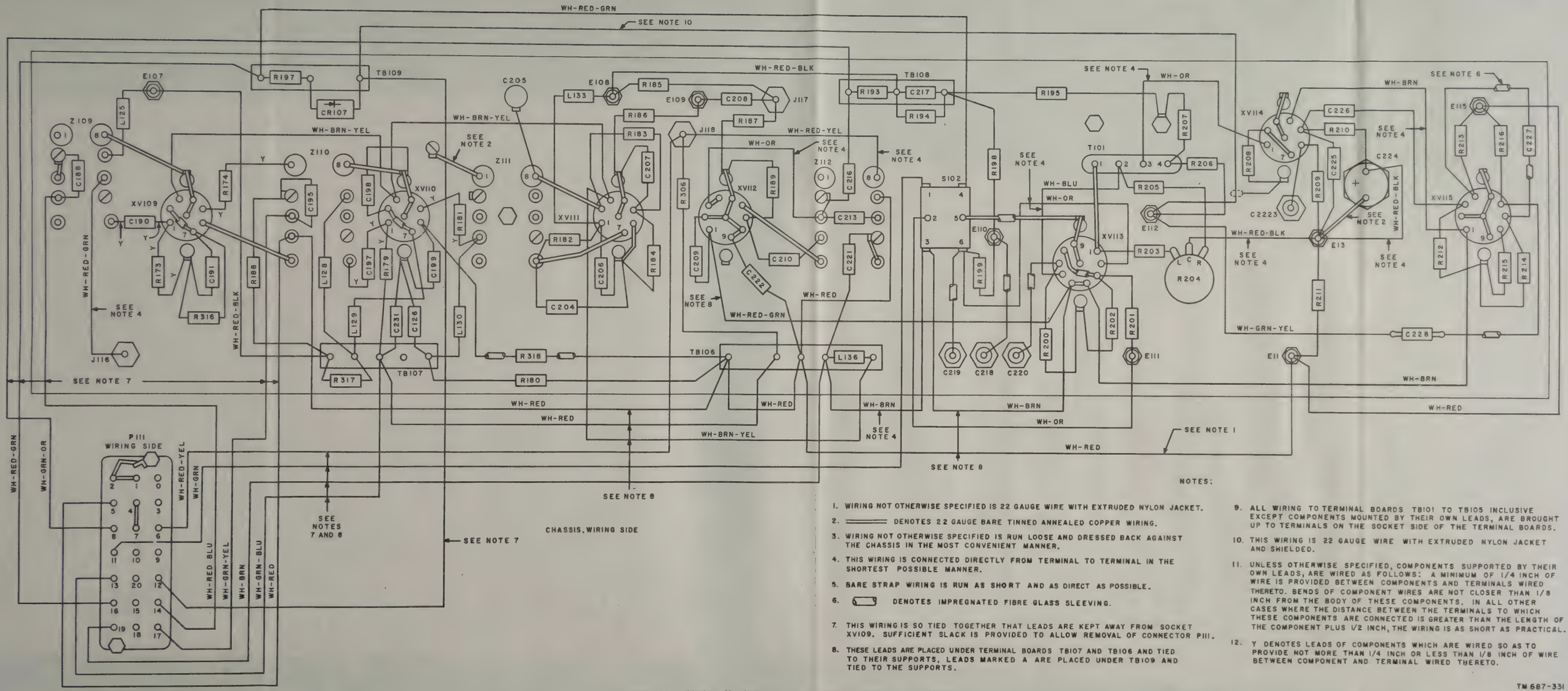
Figure 302. Receiver if. amplifier plug-in assembly, wiring diagram.

NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 22 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. THIS WIRING IS SO TIED, THAT THE LEADS ARE KEPT AWAY FROM SOCKET XV108. SUFFICIENT SLACK IS PROVIDED TO ALLOW THE REMOVAL OF THE CONNECTOR P109.
6. THIS WIRING IS PLACED UNDER TERMINAL BOARDS TB102 AND TB105, AND TIED TO THE SUPPORTS.
7. ALL WIRING TO TERMINAL BOARDS TB101 TO TB105 INCLUSIVE EXCEPT COMPONENTS MOUNTED BY THEIR OWN LEADS, ARE BROUGHT UP TO TERMINALS ON SOCKET SIDE OF TERMINAL BOARDS.
8. THIS WIRE IS RUN THROUGH BRASS TUBE FOR SHIELDING PURPOSES.
9. TAB OF TERMINAL HAS BEEN CUT TO SHORTEST LENGTH AND SOLDERED TO CENTER SLEEVE OF SOCKET XV102.
10. LEAD FROM RESISTOR R108 TO PIN 1 OF SOCKET XV102 AND LEAD FROM RESISTOR R169 TO PIN 7 OF OUTPUT NETWORK Z107 ARE MAXIMUM 1/4 INCH LONG.
11. UNLESS OTHERWISE SPECIFIED, COMPONENTS SUPPORTED BY THEIR OWN LEADS, ARE WIRED AS FOLLOWS: A MINIMUM OF 1/4 INCH OF WIRE IS PROVIDED BETWEEN COMPONENTS AND TERMINALS WIRED THERETO. BENDS OF COMPONENT WIRES ARE NOT CLOSER THAN 1/8 INCH FROM THE BODY OF THESE COMPONENTS. IN ALL OTHER CASES WHERE THE DISTANCE BETWEEN THE TERMINALS TO WHICH THESE COMPONENTS ARE CONNECTED, IS GREATER THAN THE LENGTH OF THE COMPONENT PLUS 1/2 INCH, THE WIRING IS AS SHORT AS PRACTICAL.
12. Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENTS AND TERMINAL WIRED THERETO.
13. THIS IS A TINNED COPPER STRAP CONNECTOR .020 INCH THICK BY 1/8 INCH WIDE BY 1 INCH LONG. IN SOME ASSEMBLIES THIS STRAP IS 22 GAUGE WIRE AND IS CONNECTED TO A LUG LOCATED BETWEEN PINS 1 AND 2 OF Z101.
14. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
15. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
16. IN SOME ASSEMBLIES C143 SHUNTS R136.
17. IN SOME ASSEMBLIES C129 IS GROUNDED AT THE SAME LUG AS R118.

TM 687-330

381345 O - 56 (In pocket)



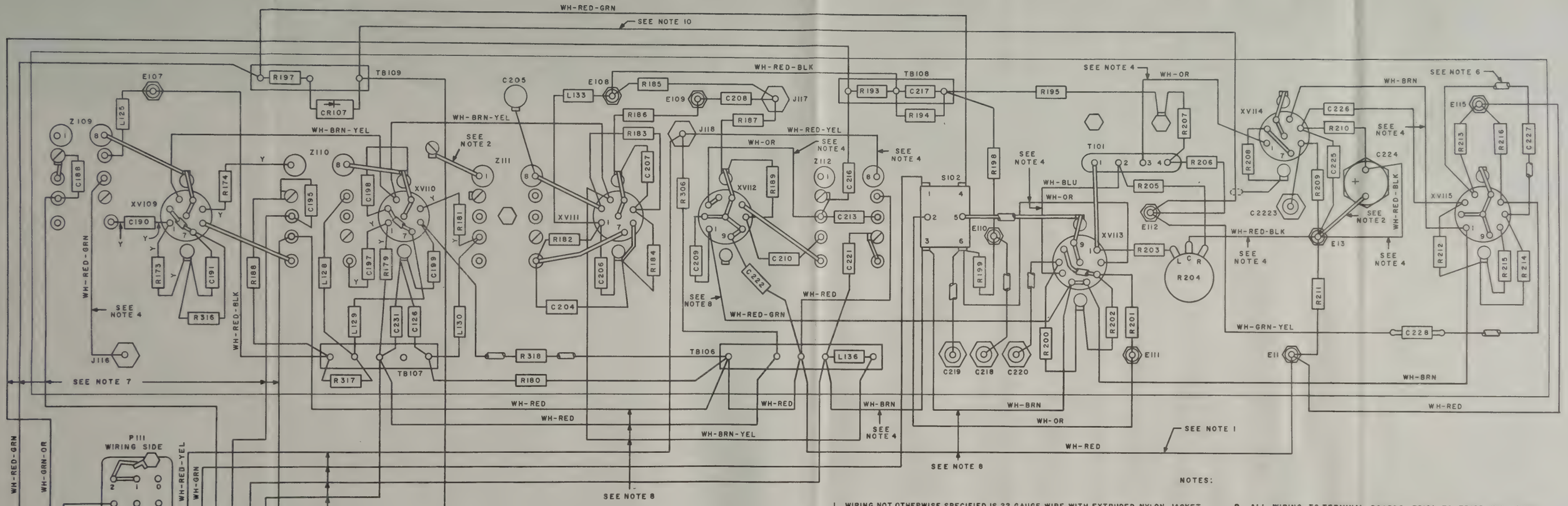
NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 22 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. ⊂⊃ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
7. THIS WIRING IS SO TIED TOGETHER THAT LEADS ARE KEPT AWAY FROM SOCKET XV109. SUFFICIENT SLACK IS PROVIDED TO ALLOW REMOVAL OF CONNECTOR P111.
8. THESE LEADS ARE PLACED UNDER TERMINAL BOARDS TB107 AND TB106 AND TIED TO THEIR SUPPORTS. LEADS MARKED A ARE PLACED UNDER TB109 AND TIED TO THE SUPPORTS.
9. ALL WIRING TO TERMINAL BOARDS TB101 TO TB105 INCLUSIVE EXCEPT COMPONENTS MOUNTED BY THEIR OWN LEADS, ARE BROUGHT UP TO TERMINALS ON THE SOCKET SIDE OF THE TERMINAL BOARDS.
10. THIS WIRING IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET AND SHIELDED.
11. UNLESS OTHERWISE SPECIFIED, COMPONENTS SUPPORTED BY THEIR OWN LEADS, ARE WIRED AS FOLLOWS: A MINIMUM OF 1/4 INCH OF WIRE IS PROVIDED BETWEEN COMPONENTS AND TERMINALS WIRED THERETO. BENDS OF COMPONENT WIRES ARE NOT CLOSER THAN 1/8 INCH FROM THE BODY OF THESE COMPONENTS. IN ALL OTHER CASES WHERE THE DISTANCE BETWEEN THE TERMINALS TO WHICH THESE COMPONENTS ARE CONNECTED IS GREATER THAN THE LENGTH OF THE COMPONENT PLUS 1/2 INCH, THE WIRING IS AS SHORT AS PRACTICAL.
12. Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENT AND TERMINAL WIRED THERETO.

Figure 303. Limiter, discriminator, and afc plug-in assembly, wiring diagram.

TM 687-331

381345 O - 56 (In pocket)



NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 22 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. ⊂⊃ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
7. THIS WIRING IS SO TIED TOGETHER THAT LEADS ARE KEPT AWAY FROM SOCKET XV109. SUFFICIENT SLACK IS PROVIDED TO ALLOW REMOVAL OF CONNECTOR P111.
8. THESE LEADS ARE PLACED UNDER TERMINAL BOARDS TB107 AND TB106 AND TIED TO THEIR SUPPORTS, LEADS MARKED A ARE PLACED UNDER TB109 AND TIED TO THE SUPPORTS.
9. ALL WIRING TO TERMINAL BOARDS TB101 TO TB105 INCLUSIVE EXCEPT COMPONENTS MOUNTED BY THEIR OWN LEADS, ARE BROUGHT UP TO TERMINALS ON THE SOCKET SIDE OF THE TERMINAL BOARDS.
10. THIS WIRING IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET AND SHIELDED.
11. UNLESS OTHERWISE SPECIFIED, COMPONENTS SUPPORTED BY THEIR OWN LEADS, ARE WIRED AS FOLLOWS: A MINIMUM OF 1/4 INCH OF WIRE IS PROVIDED BETWEEN COMPONENTS AND TERMINALS WIRED THERETO. BENDS OF COMPONENT WIRES ARE NOT CLOSER THAN 1/8 INCH FROM THE BODY OF THESE COMPONENTS. IN ALL OTHER CASES WHERE THE DISTANCE BETWEEN THE TERMINALS TO WHICH THESE COMPONENTS ARE CONNECTED IS GREATER THAN THE LENGTH OF THE COMPONENT PLUS 1/2 INCH, THE WIRING IS AS SHORT AS PRACTICAL.
12. Y DENOTES LEADS OF COMPONENTS WHICH ARE WIRED SO AS TO PROVIDE NOT MORE THAN 1/4 INCH OR LESS THAN 1/8 INCH OF WIRE BETWEEN COMPONENT AND TERMINAL WIRED THERETO.

TM 687-331

Figure 303. Limiter, discriminator, and afc plug-in assembly, wiring diagram.

381345 O - 56 (in pocket)

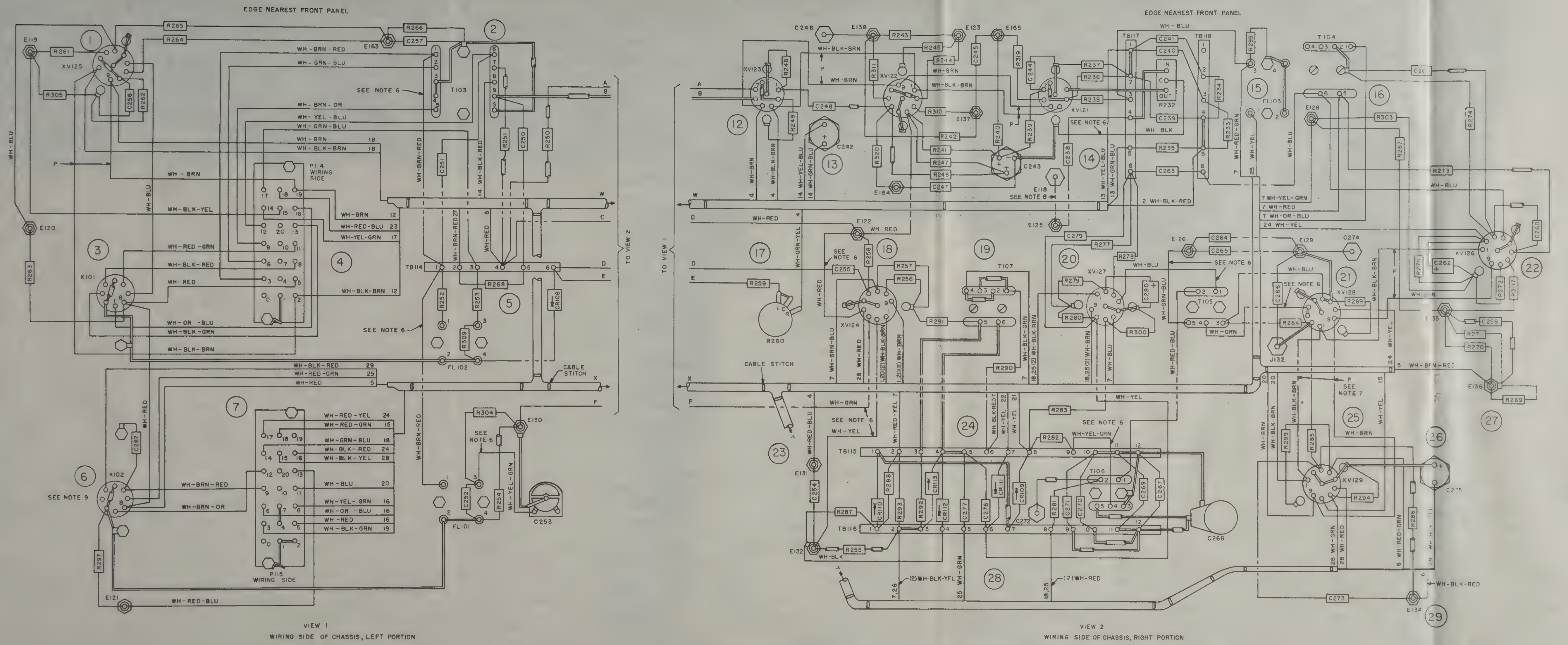


Figure 304. Receiver base-band amplifier and order wire plug-in assembly, wiring diagram for types 1 and 2 procured on Order No. 16811–Phila–51.

NOTES

1 WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET

2 ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING

3 BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE

4 WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER

5 ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING

6 THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.

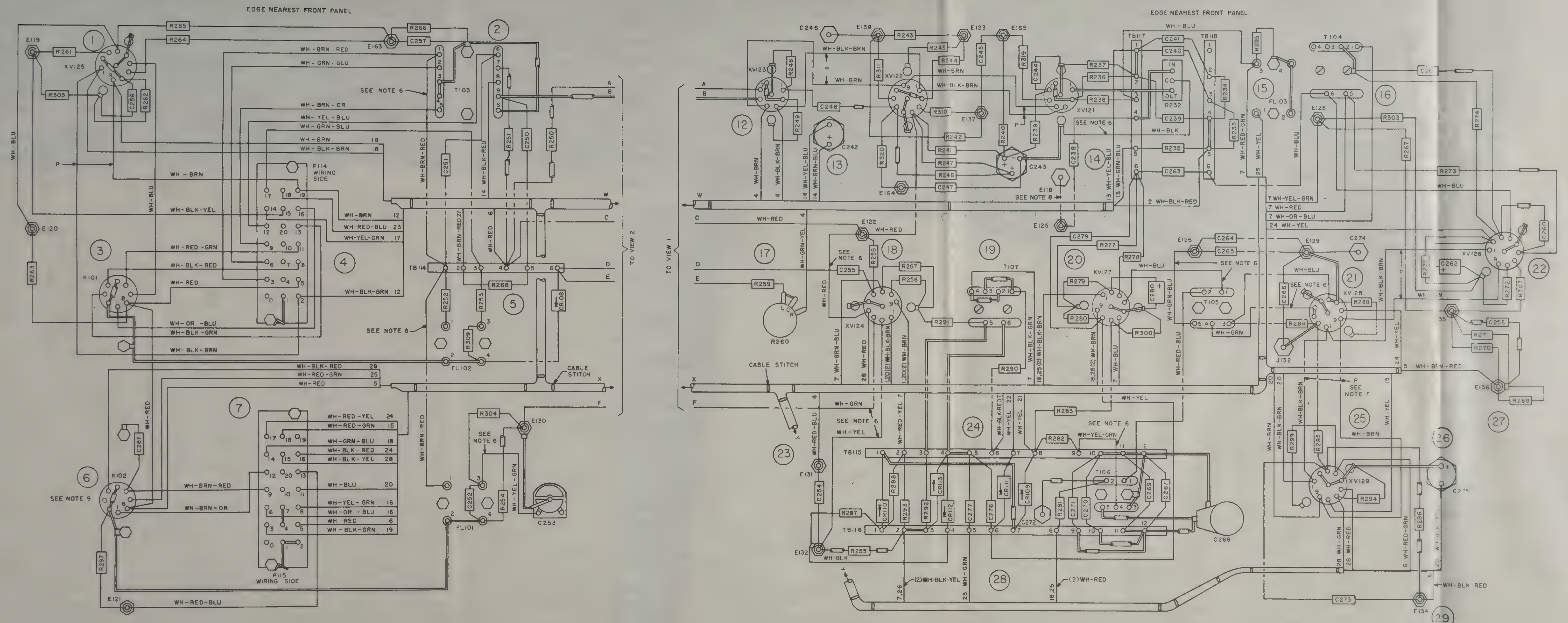
7 P DENOTES PAIRED LEADS WHICH ARE TWISTED APPROXIMATELY 6 TURNS PER FOOT

8 NNER CONDUCTOR OF COAXIAL CABLE W107.

AREA NUMBERS	LOCATION
1 - 7	VIEW 1
12 - 29	VIEW 2

9 RELAY CONTACTS AT K102 ARE CHANGED AS SHOWN IN FIGURE 189 FOR BASE–BAND AMPLIFIER ASSEMBLIES ON ORDER NO. 16811–PHILA–51 (SERIAL NUMBERS 1 THROUGH 64) AND FOR ORDER NO. 32146–PHILA–51).

381345 O - 56 (In pocket)



VIEW 1
WIRING SIDE OF CHASSIS, LEFT PORTION

VIEW 2
WIRING SIDE OF CHASSIS, RIGHT PORTION

Figure 304. Receiver base-band amplifier and order wire plug-in assembly, wiring diagram for types 1 and 2 procured on Order No. 16811–Phila–51.

NOTES:

1 WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET

2 ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING

3 BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE

4 WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER

5 ⊂═⊃ DENOTES IMPREGNATED FIBRE GLASS SLEEVING

6 THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER

7 P DENOTES PAIRED LEADS WHICH ARE TWISTED APPROXIMATELY 6 TURNS PER FOOT

8 INNER CONDUCTOR OF COAXIAL CABLE W107.

AREA NUMBERS	LOCATION
1 - 7	VIEW 1
12 - 29	VIEW 2

9 RELAY CONTACTS AT K102 ARE CHANGED AS SHOWN IN FIGURE 189 FOR BASE-BAND AMPLIFIER ASSEMBLIES ON ORDER NO. 16811–PHILA–51 (SERIAL NUMBERS 1 THROUGH 64) AND FOR ORDER NO. 32146–PHILA–51).

381345 O - 56 (In pocket)

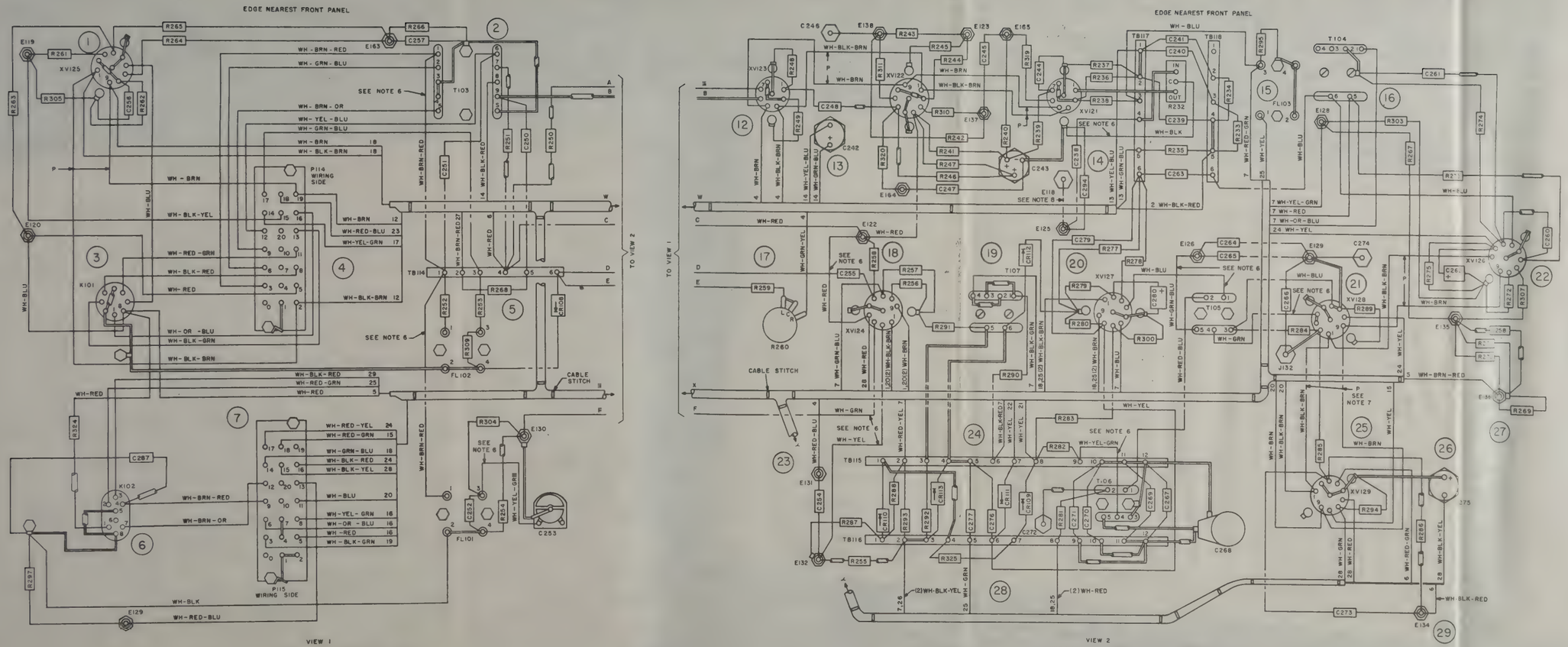


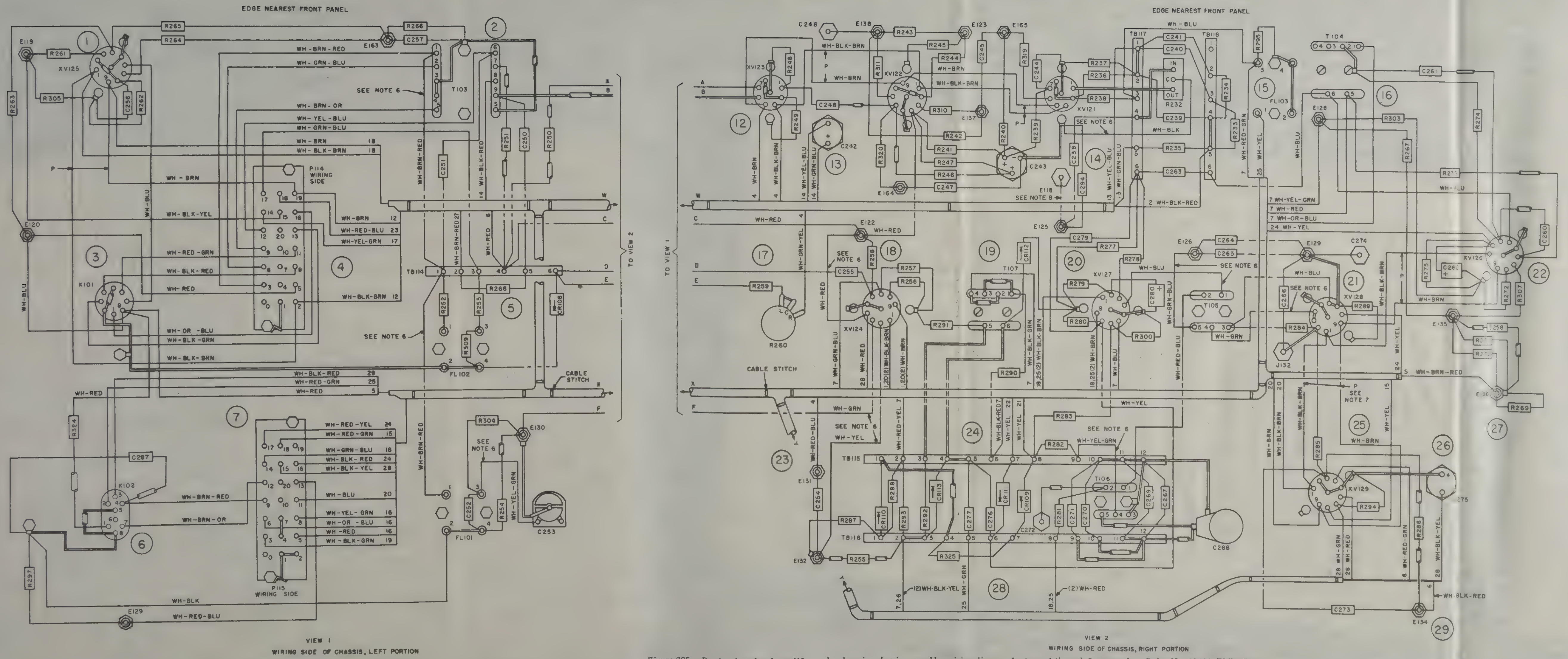
Figure 305. Receiver base-band amplifier and order-wire plug-in assembly, wiring diagram for types 1 through 8 procured on Order No. 16811-Phila-51.

NOTES.

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
4. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
6. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
7. P DENOTES PAIRED LEADS WHICH ARE TWISTED APPROXIMATELY 6 TURNS PER FOOT.
8. INNER CONDUCTOR OF COAXIAL CABLE W107.

AREA NUMBERS	LOCATION
1 - 7	VIEW 1
12 - 29	VIEW 2

TM 687-432



NOTES:

1 WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET

2 ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING

3 BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE

4 WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER

5 ⊂⊃ DENOTES IMPREGNATED FIBRE GLASS SLEEVING

6 THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.

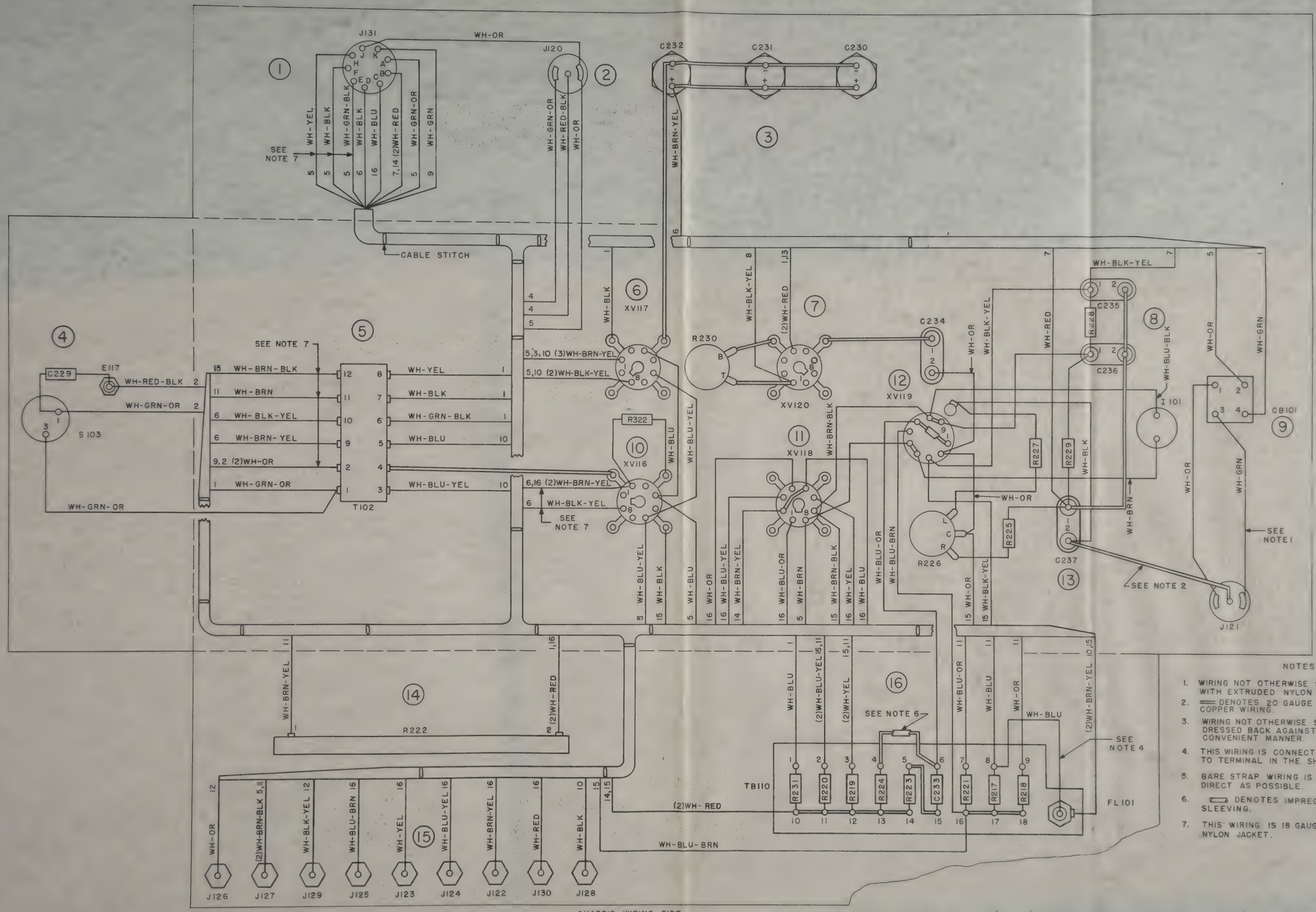
7 P DENOTES PAIRED LEADS WHICH ARE TWISTED APPROXIMATELY 6 TURNS PER FOOT

8. INNER CONDUCTOR OF COAXIAL CABLE W107.

AREA NUMBERS	LOCATION
1 - 7	VIEW 1
12 - 29	VIEW 2

Figure 305. Receiver base-band amplifier and order-wire plug-in assembly, wiring diagram for types 1 through 8 procured on Order No. 16811–Phila–51.

381345 O - 56 (In pocket)



NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. THIS WIRING IS CONNECTED DIRECTLY FROM TERMINAL TO TERMINAL IN THE SHORTEST POSSIBLE MANNER.
5. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
6. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
7. THIS WIRING IS 18 GAUGE WIRE WITH EXTRUDED NYLON JACKET.

TM 687-333

Figure 306. Receiver power-supply plug-in assembly, wiring diagram.

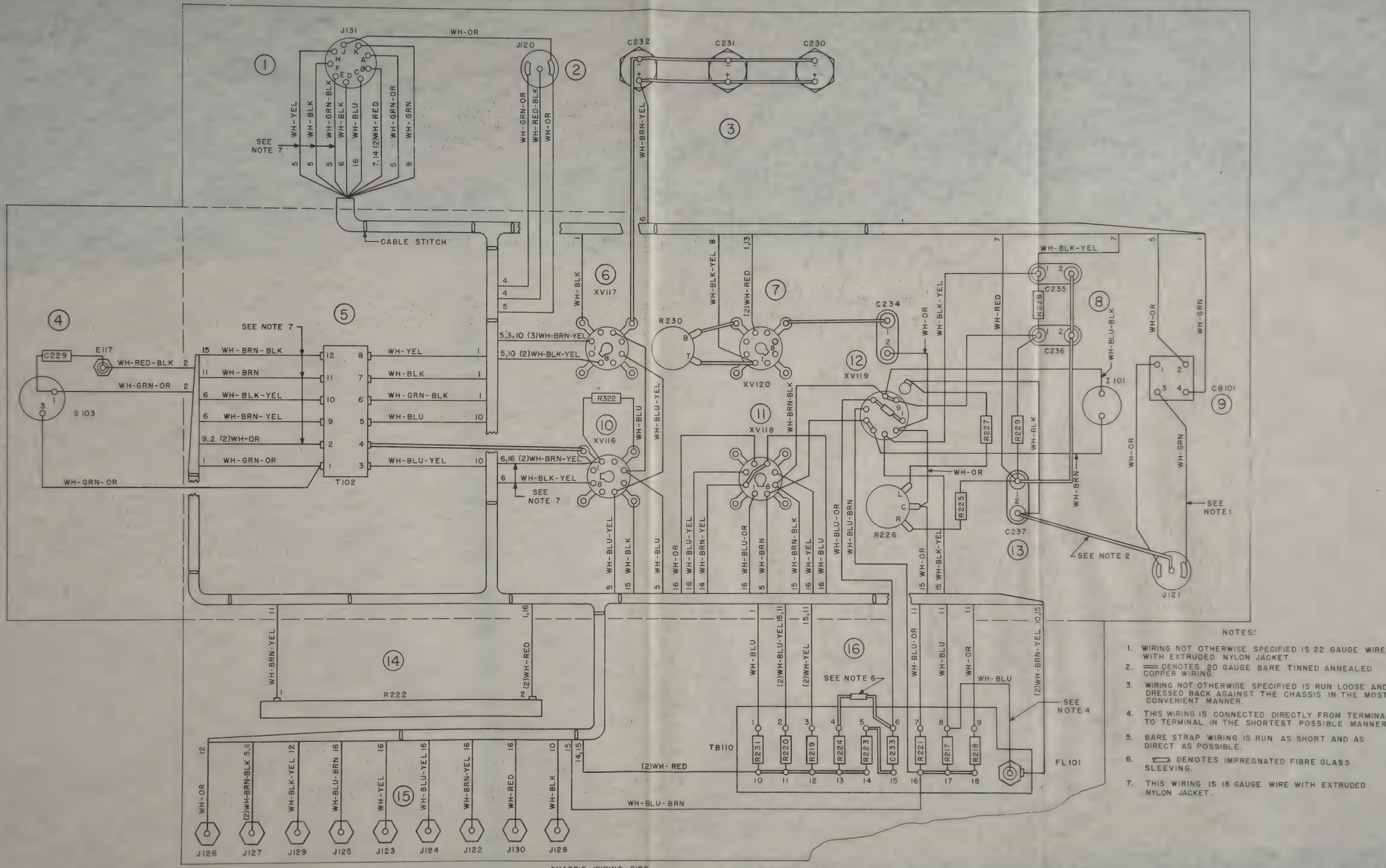


Figure 306. Receiver power-supply plug-in assembly, wiring diagram.

TM 687-333

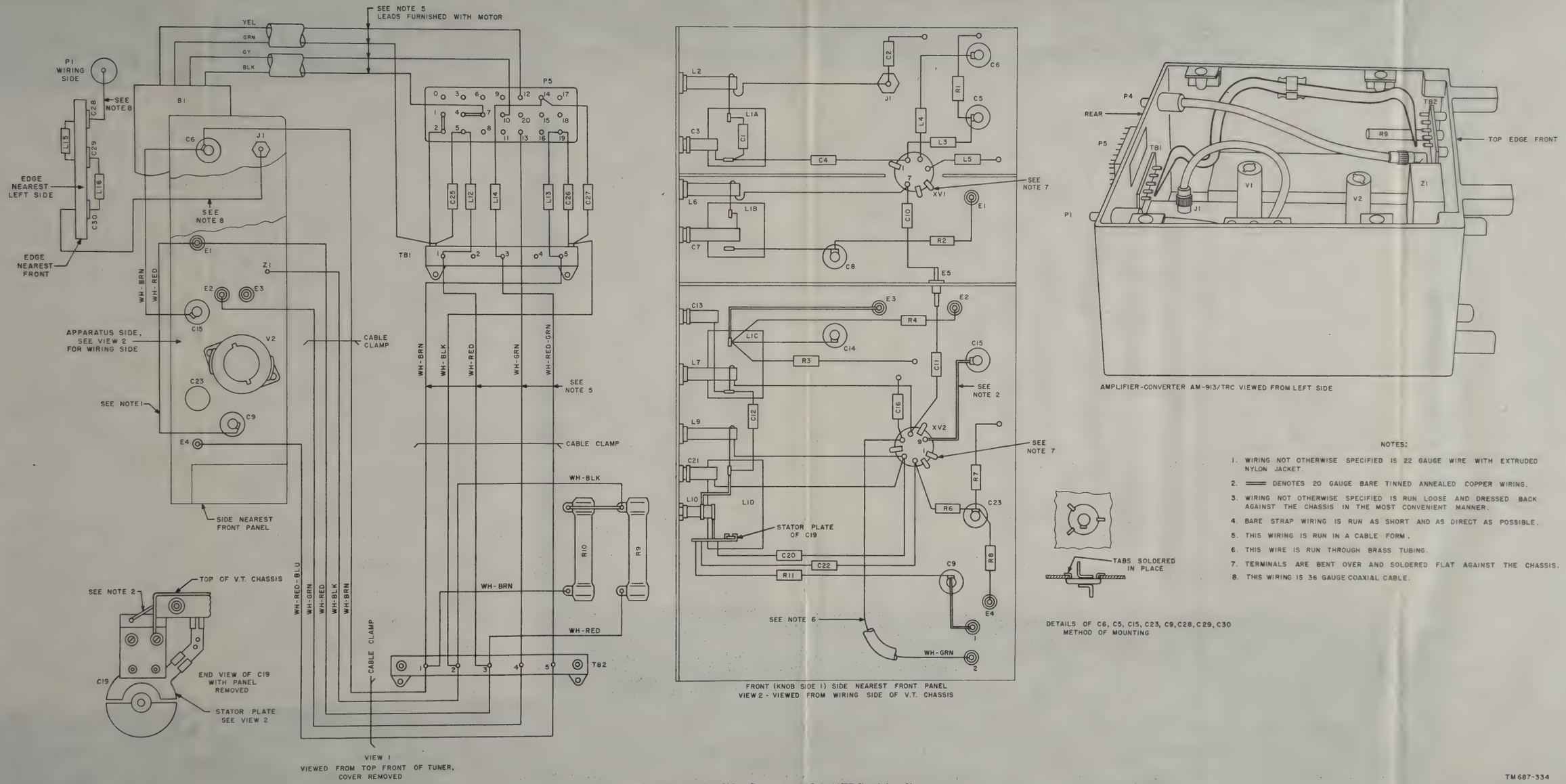
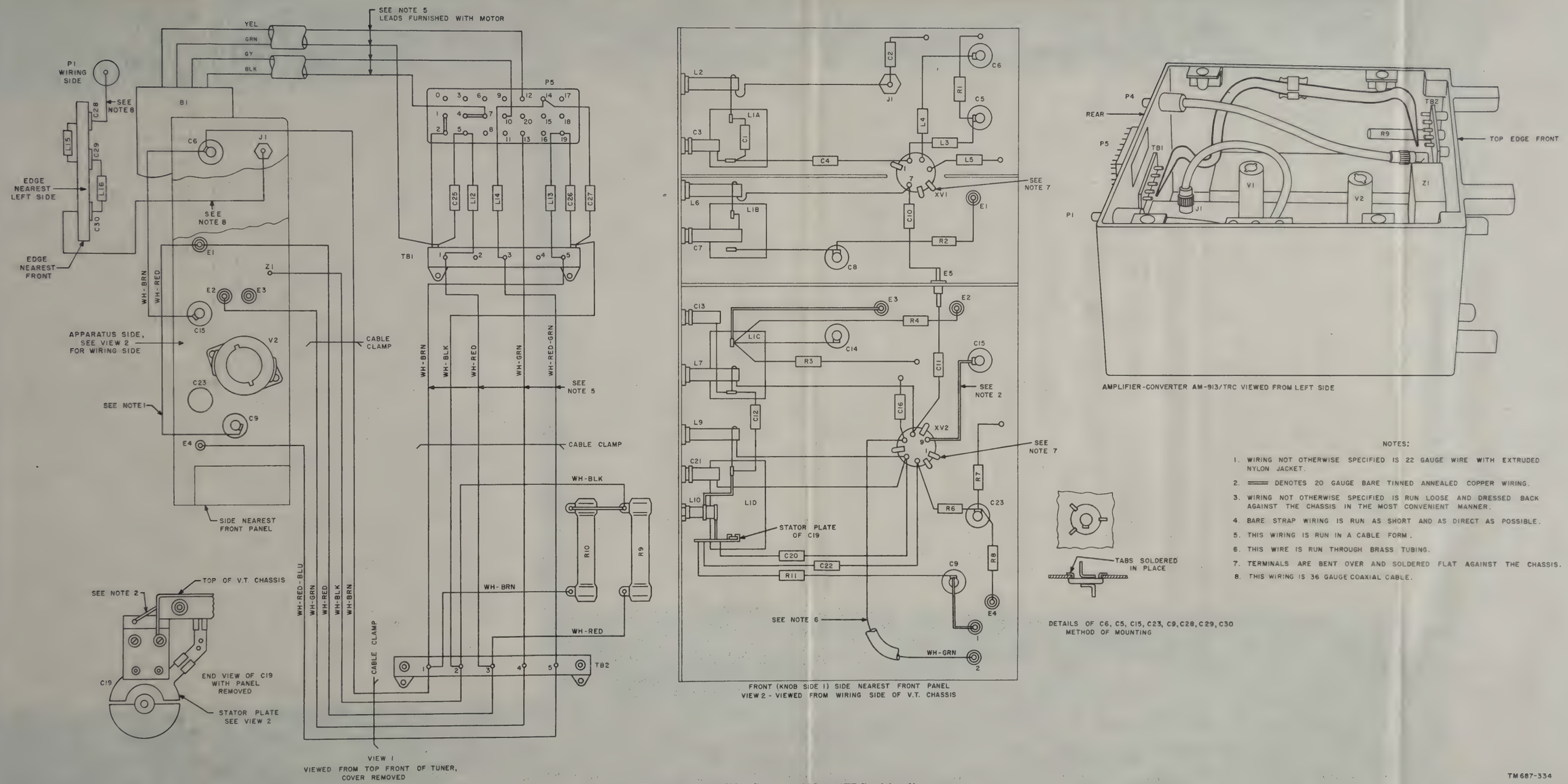


Figure 307. Amplifier-Converter AM-913/TRC, wiring diagram.

TM 687-334

381345 O - 56 (In pocket)



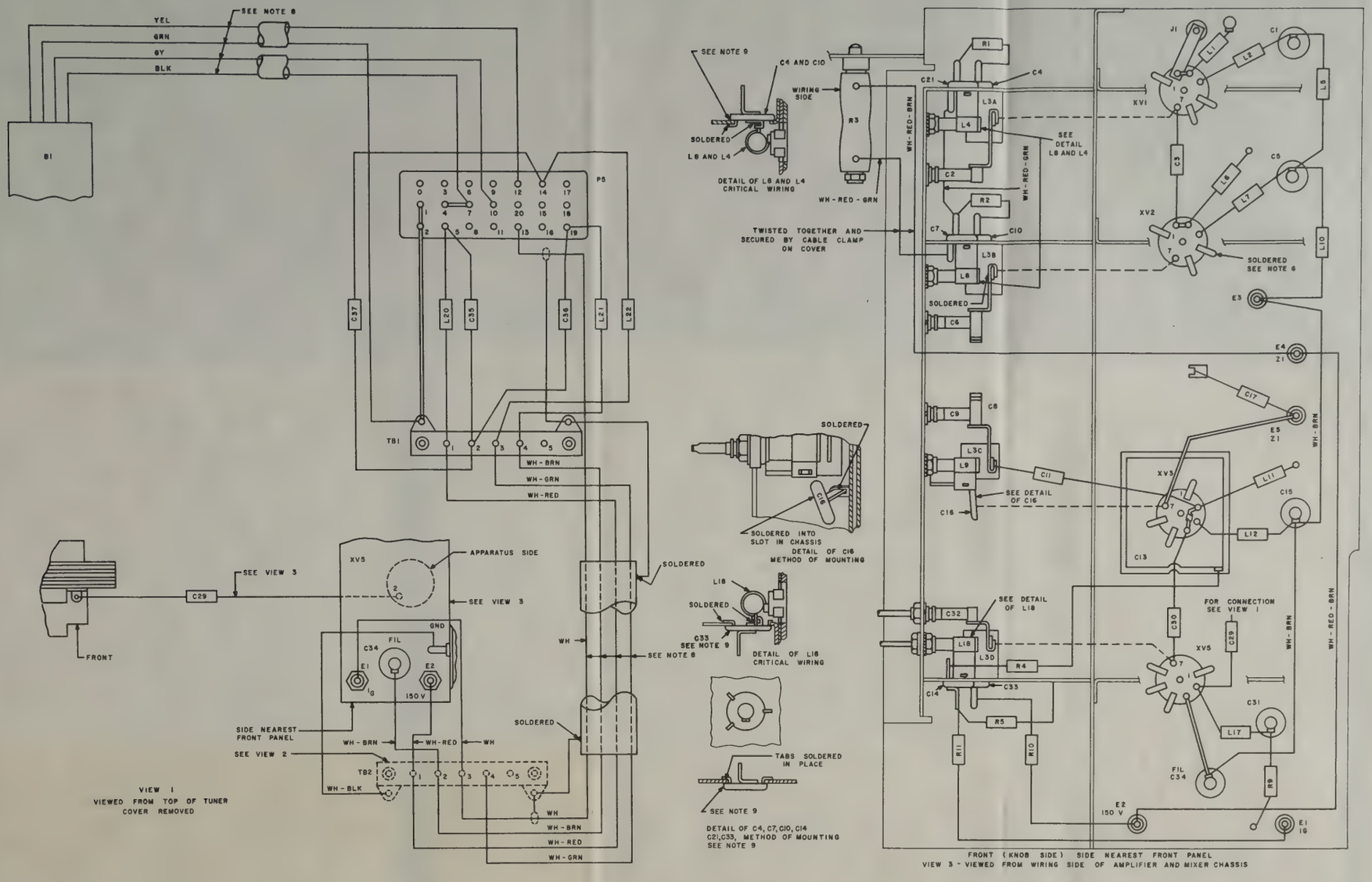
NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
4. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
5. THIS WIRING IS RUN IN A CABLE FORM.
6. THIS WIRE IS RUN THROUGH BRASS TUBING.
7. TERMINALS ARE BENT OVER AND SOLDERED FLAT AGAINST THE CHASSIS.
8. THIS WIRING IS 36 GAUGE COAXIAL CABLE.

Figure 307. Amplifier-Converter AM-913/TRC, wiring diagram.

TM 687-334

381345 O - 56 (In pocket)



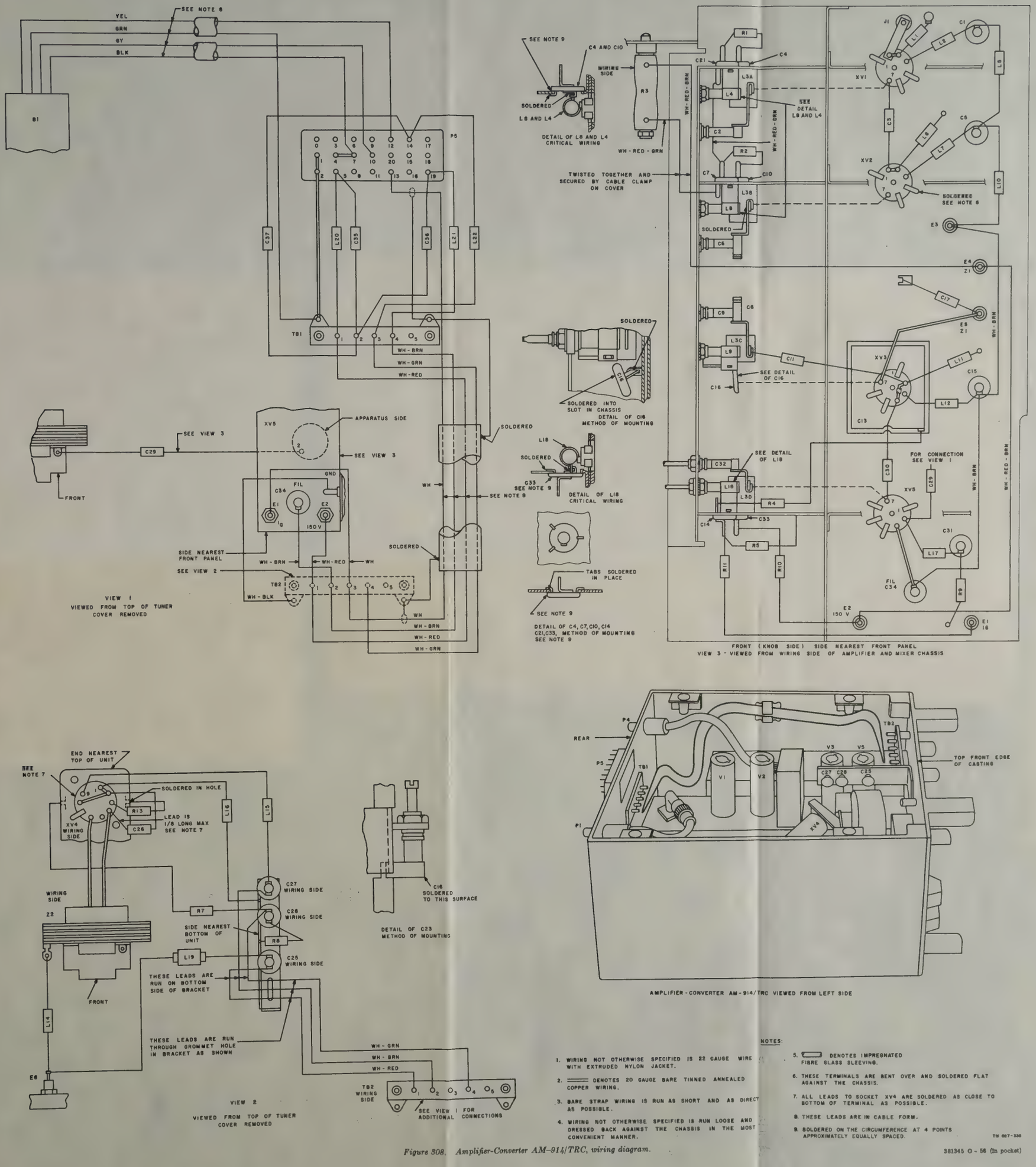
NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
4. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
6. THESE TERMINALS ARE BENT OVER AND SOLDERED FLAT AGAINST THE CHASSIS.
7. ALL LEADS TO SOCKET XV4 ARE SOLDERED AS CLOSE TO BOTTOM OF TERMINAL AS POSSIBLE.
8. THESE LEADS ARE IN CABLE FORM.
9. SOLDERED ON THE CIRCUMFERENCE AT 4 POINTS APPROXIMATELY EQUALLY SPACED.

TM 687-330

Figure 308. Amplifier-Converter AM–914/TRC, wiring diagram.

381345 O - 56 (In pocket)



NOTES:

1. WIRING NOT OTHERWISE SPECIFIED IS 22 GAUGE WIRE WITH EXTRUDED NYLON JACKET.
2. ═══ DENOTES 20 GAUGE BARE TINNED ANNEALED COPPER WIRING.
3. BARE STRAP WIRING IS RUN AS SHORT AND AS DIRECT AS POSSIBLE.
4. WIRING NOT OTHERWISE SPECIFIED IS RUN LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
5. ▭ DENOTES IMPREGNATED FIBRE GLASS SLEEVING.
6. THESE TERMINALS ARE BENT OVER AND SOLDERED FLAT AGAINST THE CHASSIS.
7. ALL LEADS TO SOCKET XV4 ARE SOLDERED AS CLOSE TO BOTTOM OF TERMINAL AS POSSIBLE.
8. THESE LEADS ARE IN CABLE FORM.
9. SOLDERED ON THE CIRCUMFERENCE AT 4 POINTS APPROXIMATELY EQUALLY SPACED.

TM 667-336

Figure 308. Amplifier-Converter AM-914/TRC, wiring diagram.

381345 O - 56 (In pocket)

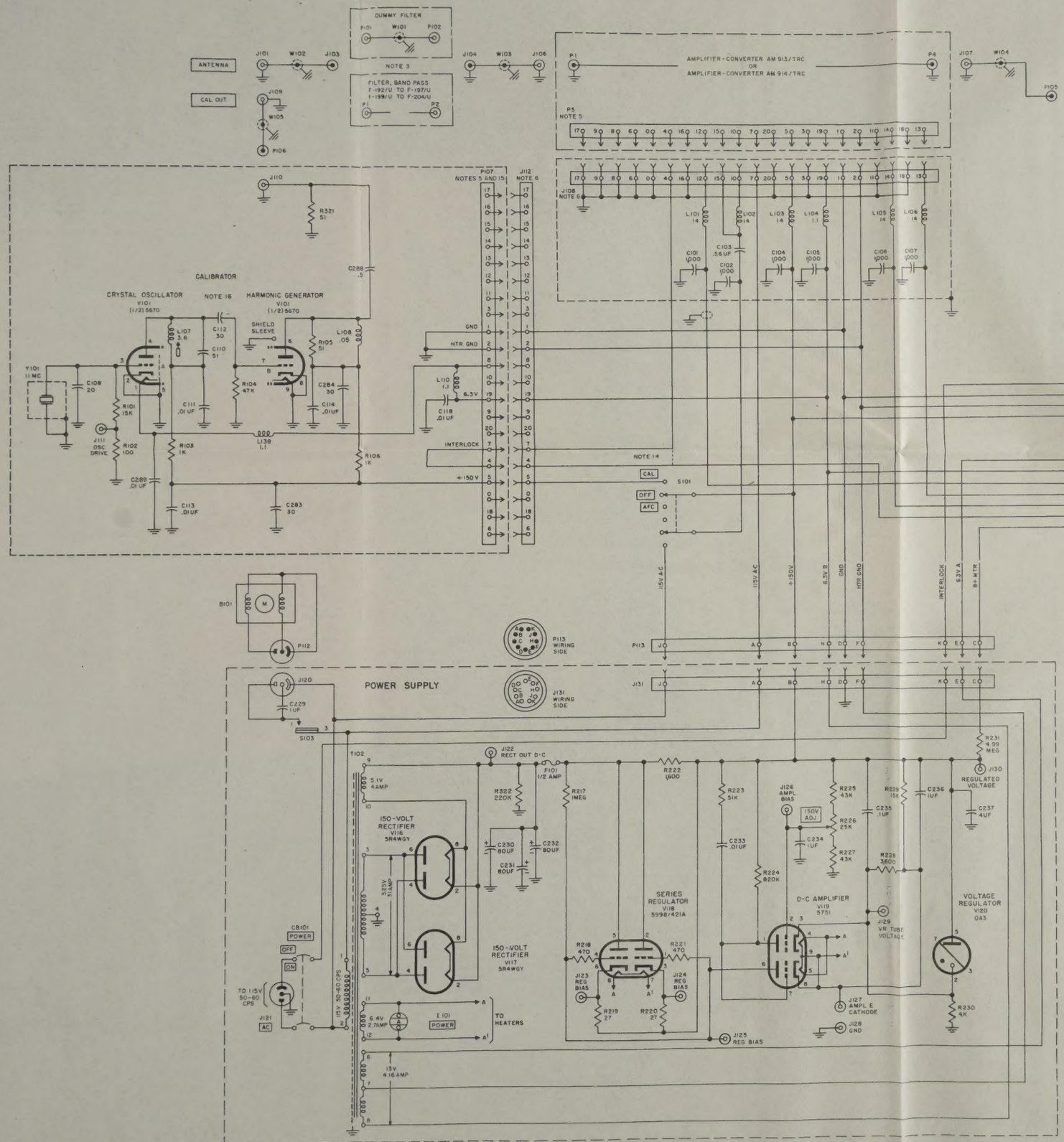
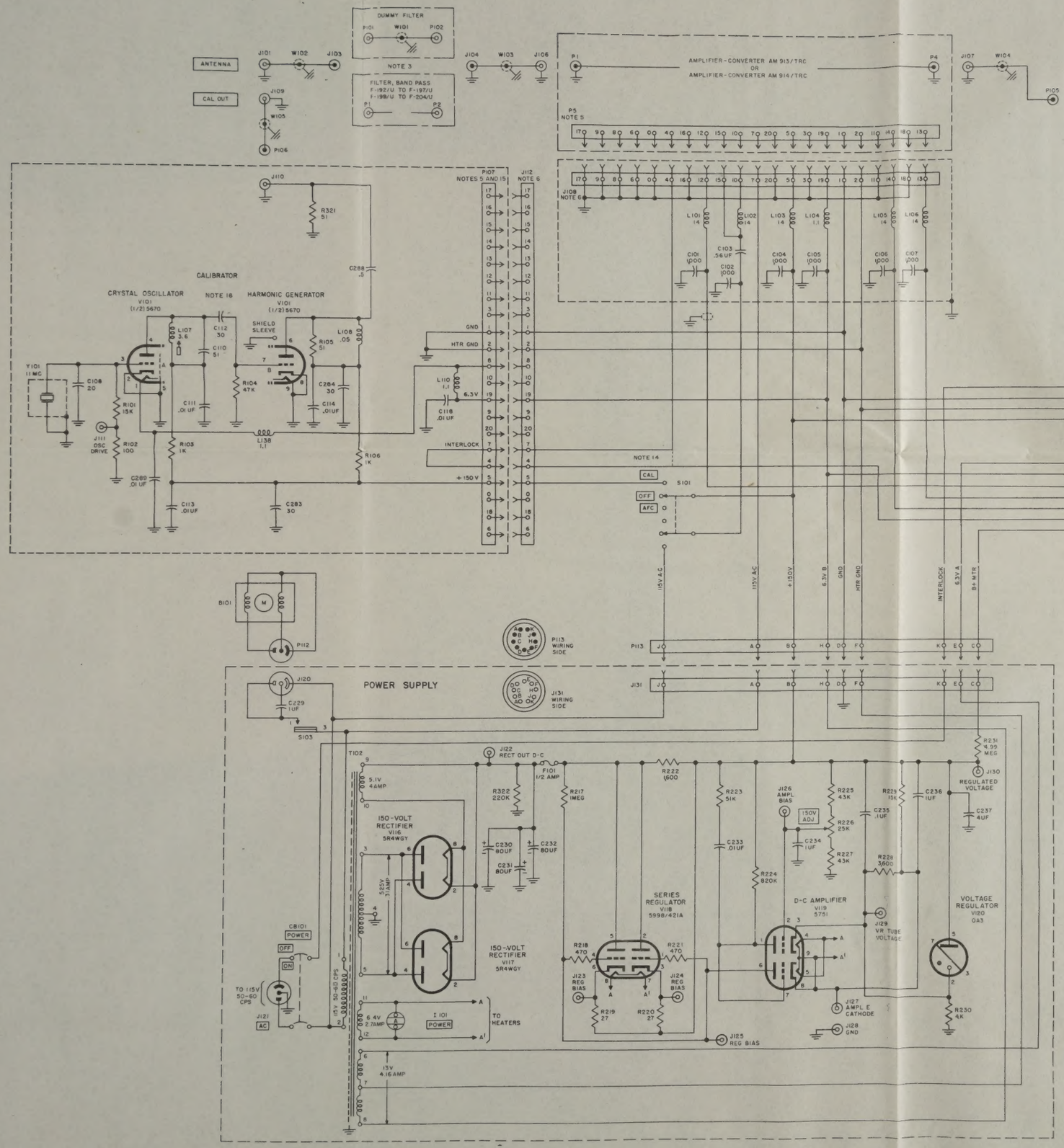


Figure 276. Radio Receiver R-417/T



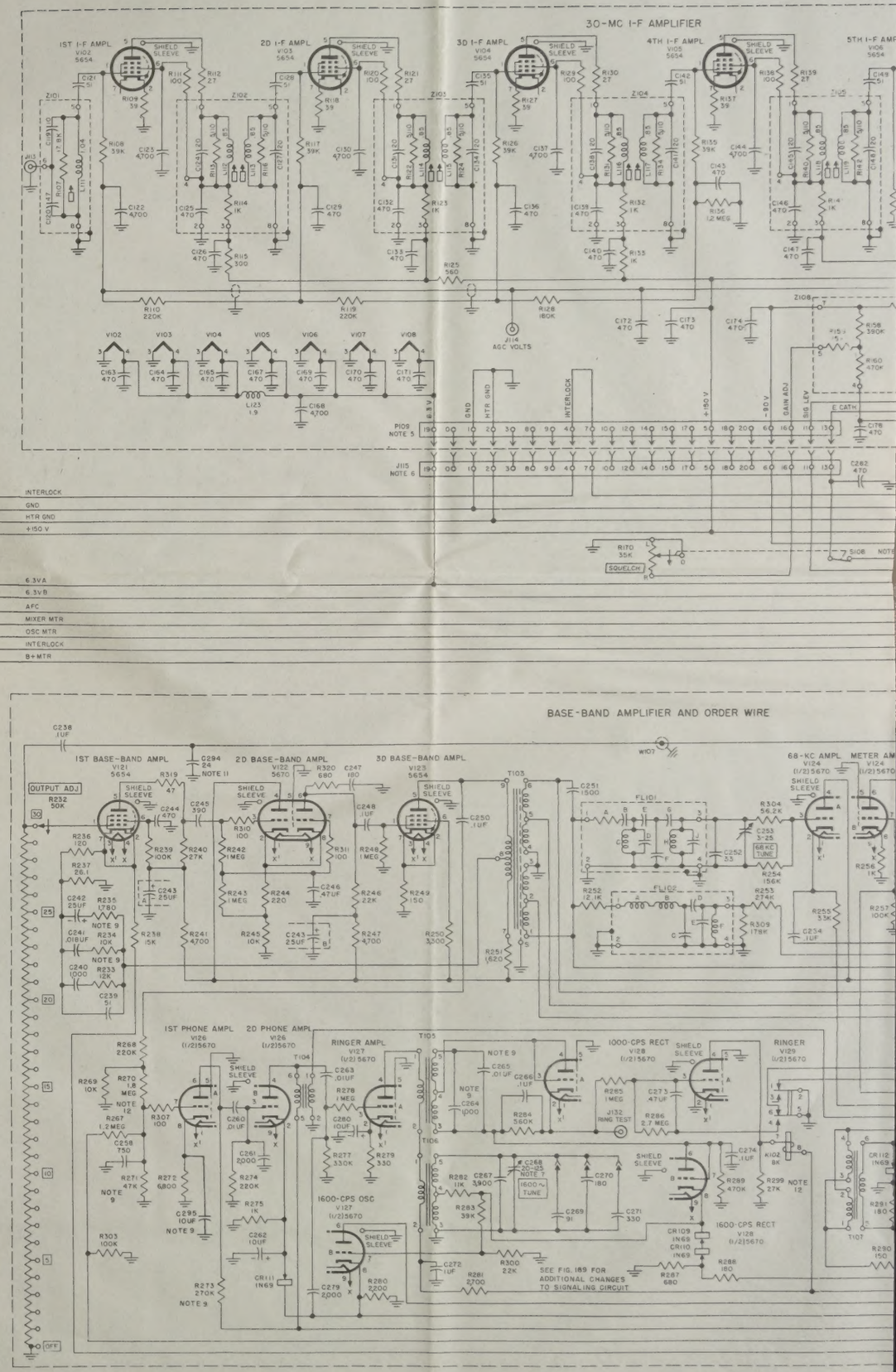
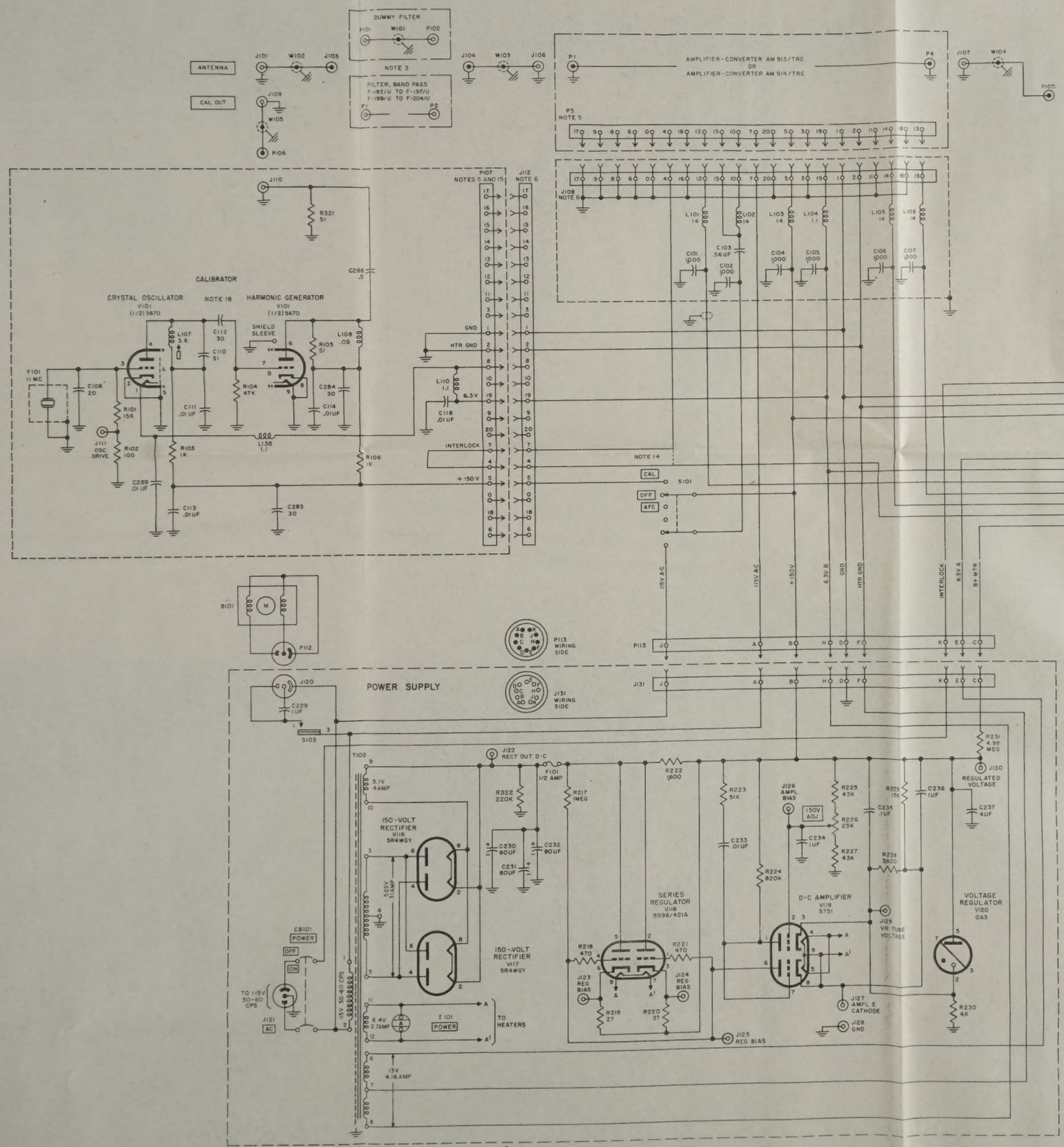


Figure 276. Radio Receiver R-417/T



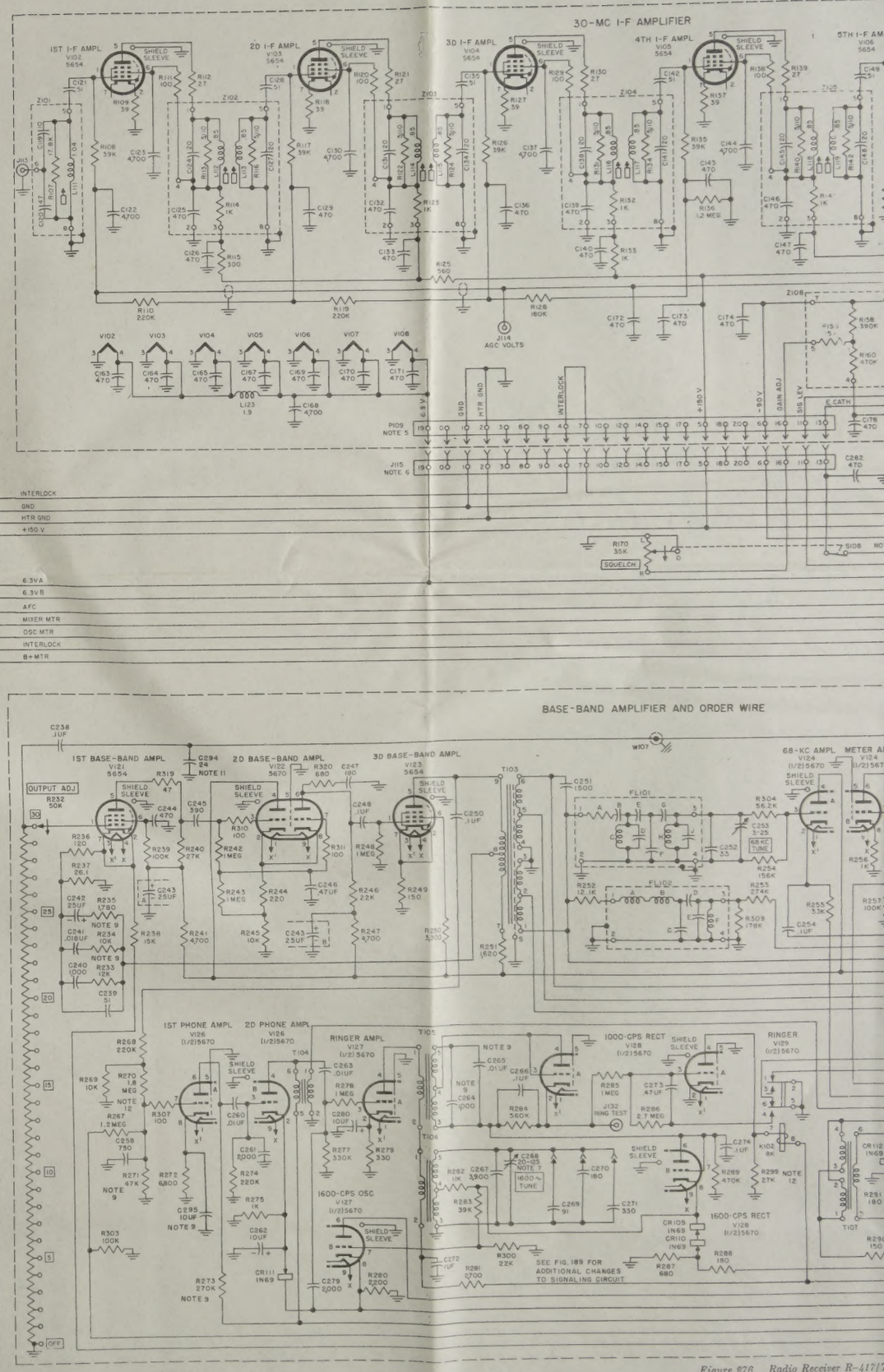
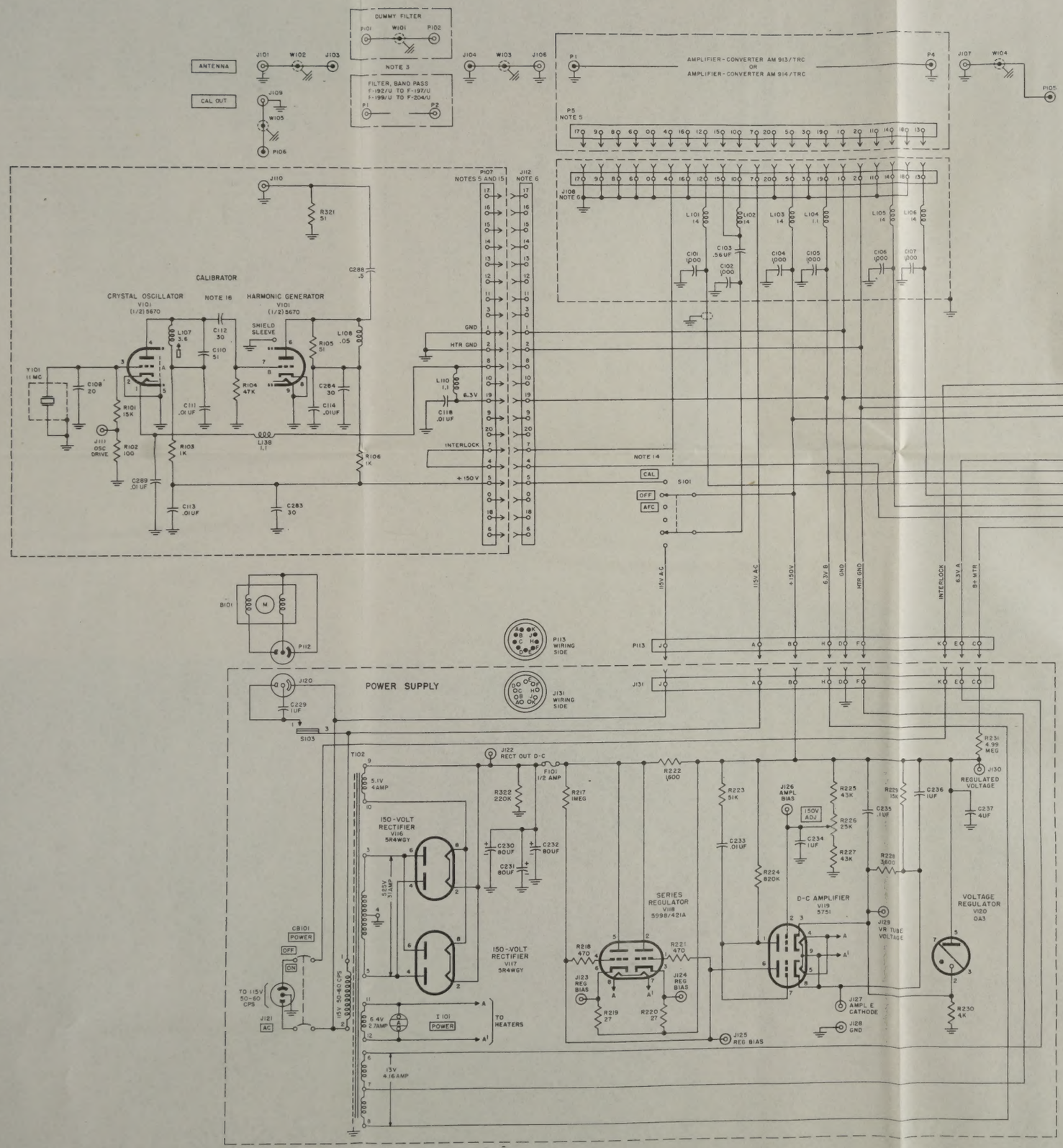


Figure 276. Radio Receiver R-417/U



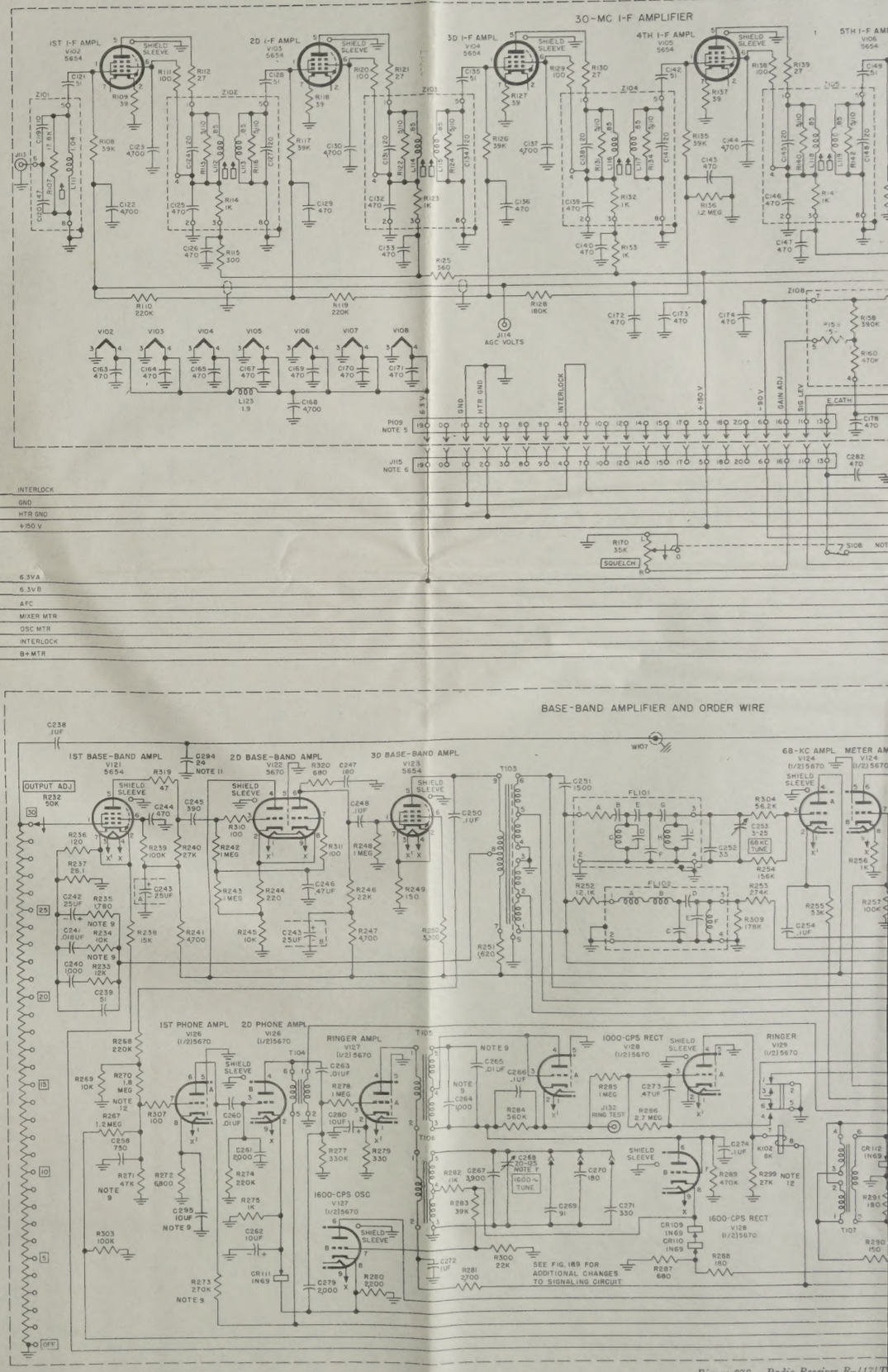


Figure 276. Radio Receiver R-417/T