

Figure 57—VHF Fittings—Dimensions and Weights

- NOTES:
- 1 MAKE THESE LEADS AS SHORT AS POSSIBLE.
 - 2 VHF TRANSMITTER MUST BE CONNECTED TO SELECTOR NO.1 AT THE RACK.
 - 3 SIDE TONE INJECTION CONNECTION (OPTIONAL) IS EQUIVALENT TO CORD CD-905. IF NOT USED, COVER RACK RECEPTACLE WITH CAP 5319.
 - 4 THIS RECEPTACLE MAY BE USED WITH CABLE 5808 TO CONNECT THE RADIO EQUIPMENT AN/ARC-5 INTO THE COMMUNICATION SYSTEM OF THE AIRPLANE.
- SPECIAL CABLING DIAGRAMS FOR EACH AIRPLANE WILL BE SUPPLIED BY THE OFFICE OF ENGINEERING. IN GENERAL, THESE DIAGRAMS WILL SHOW THE INTERCONNECTOR OF MORE THAN ONE TYPE OF EQUIPMENT.

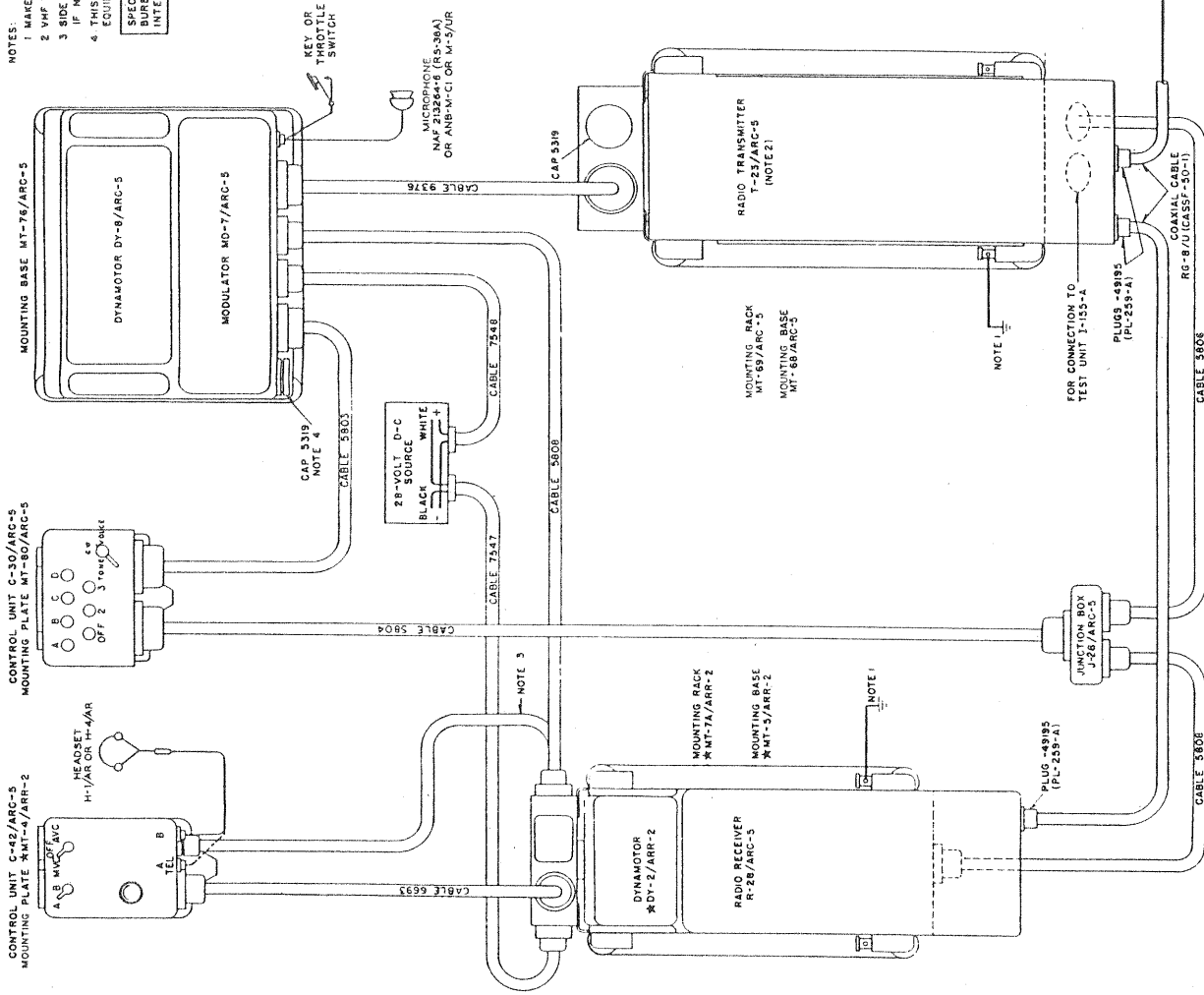
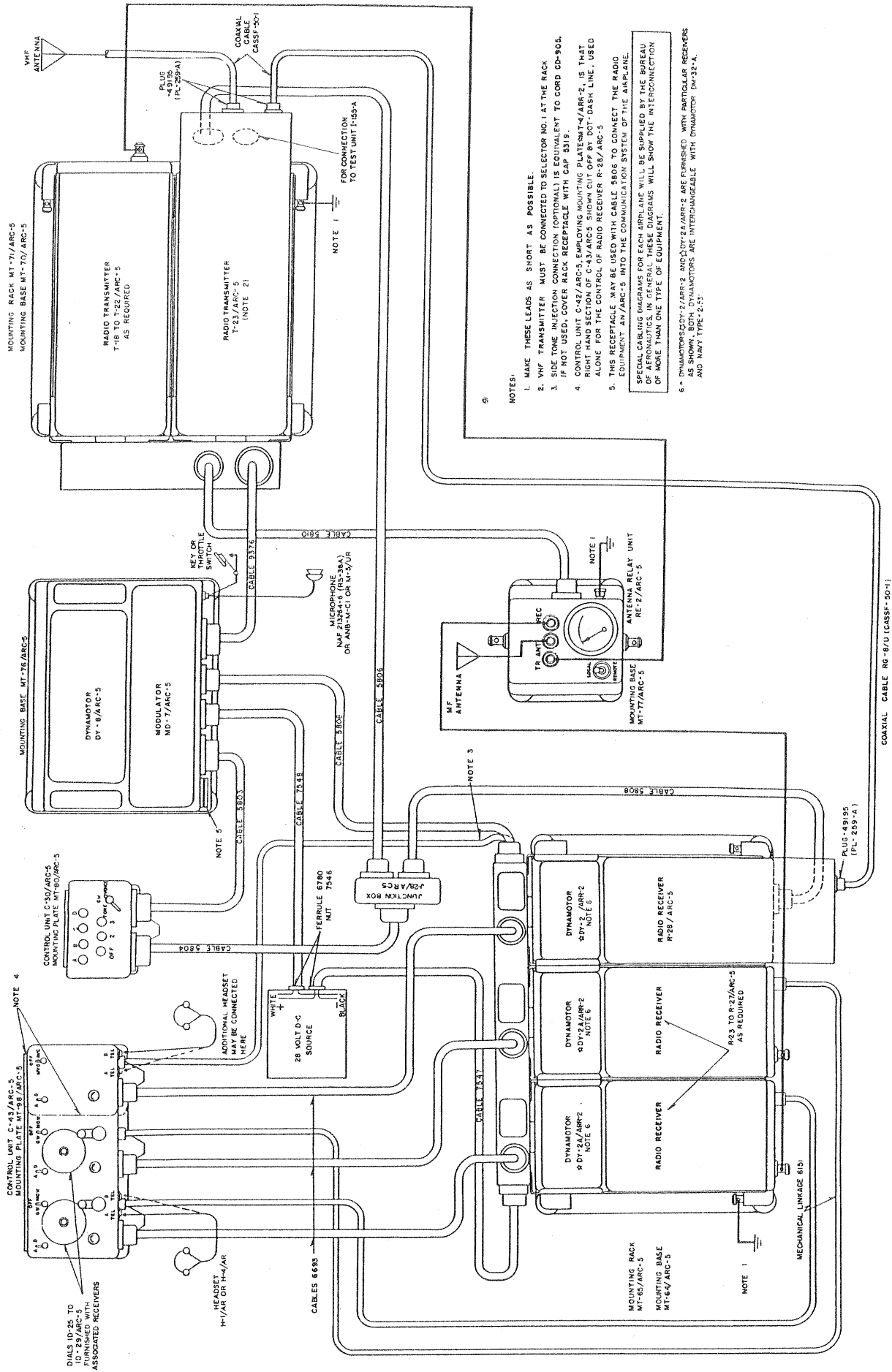
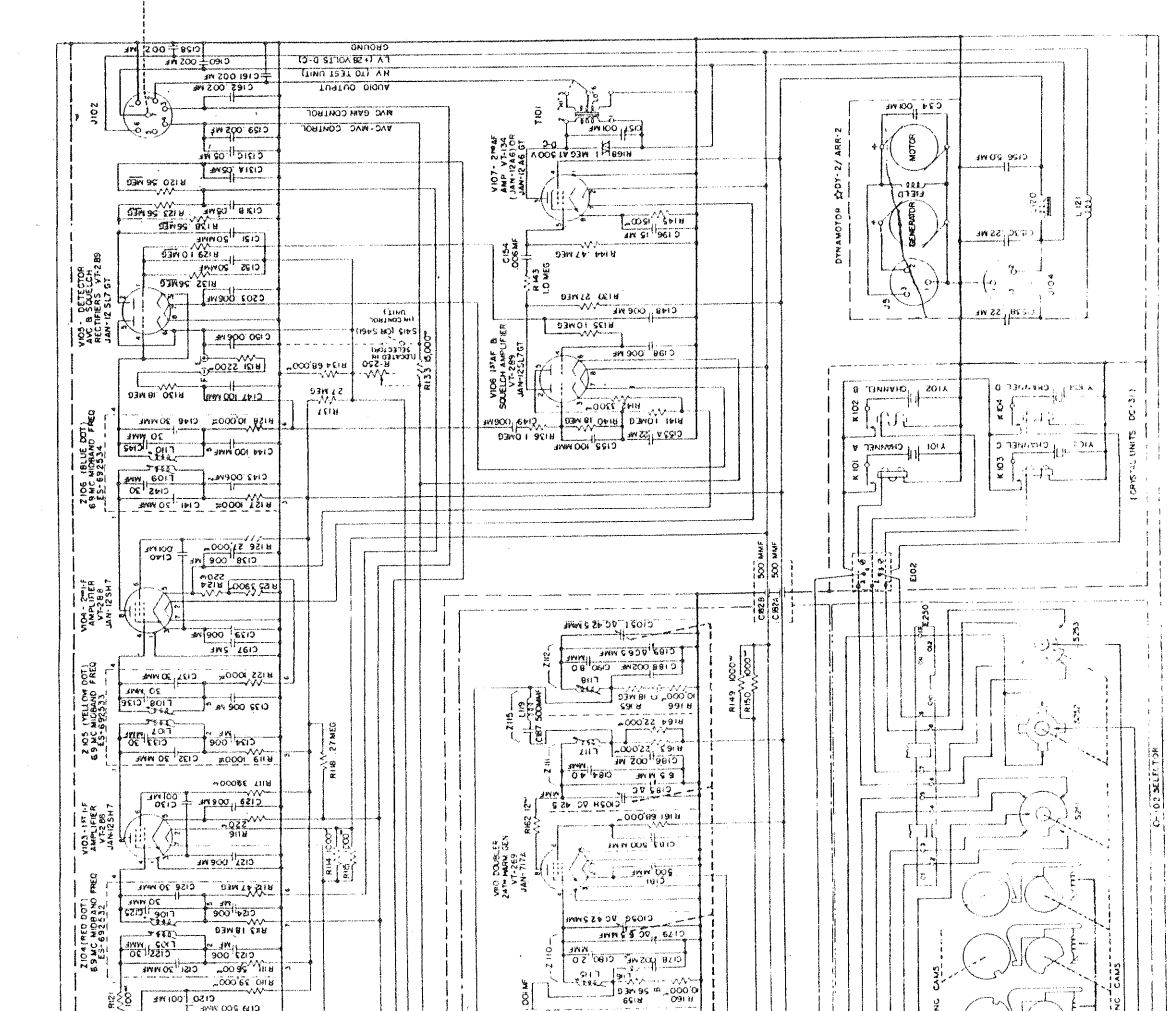
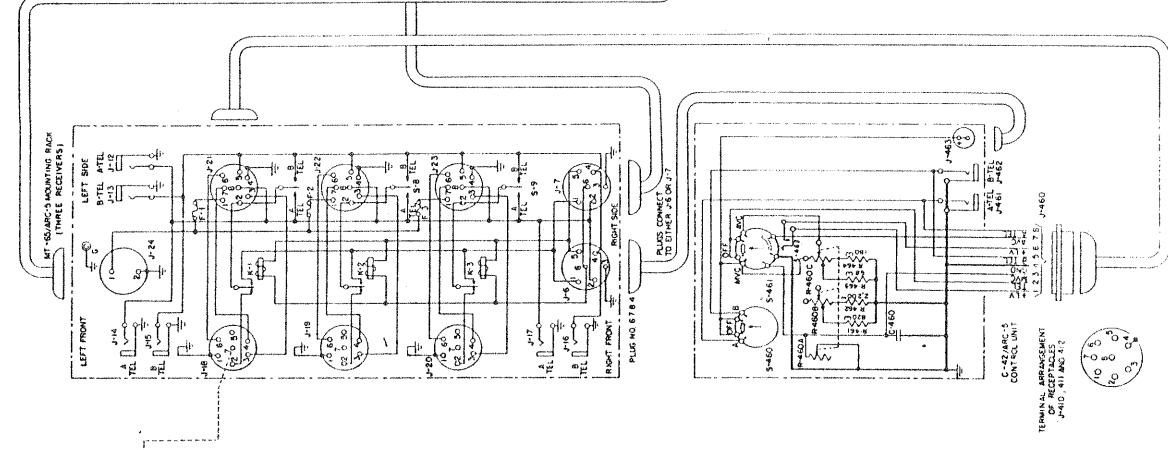
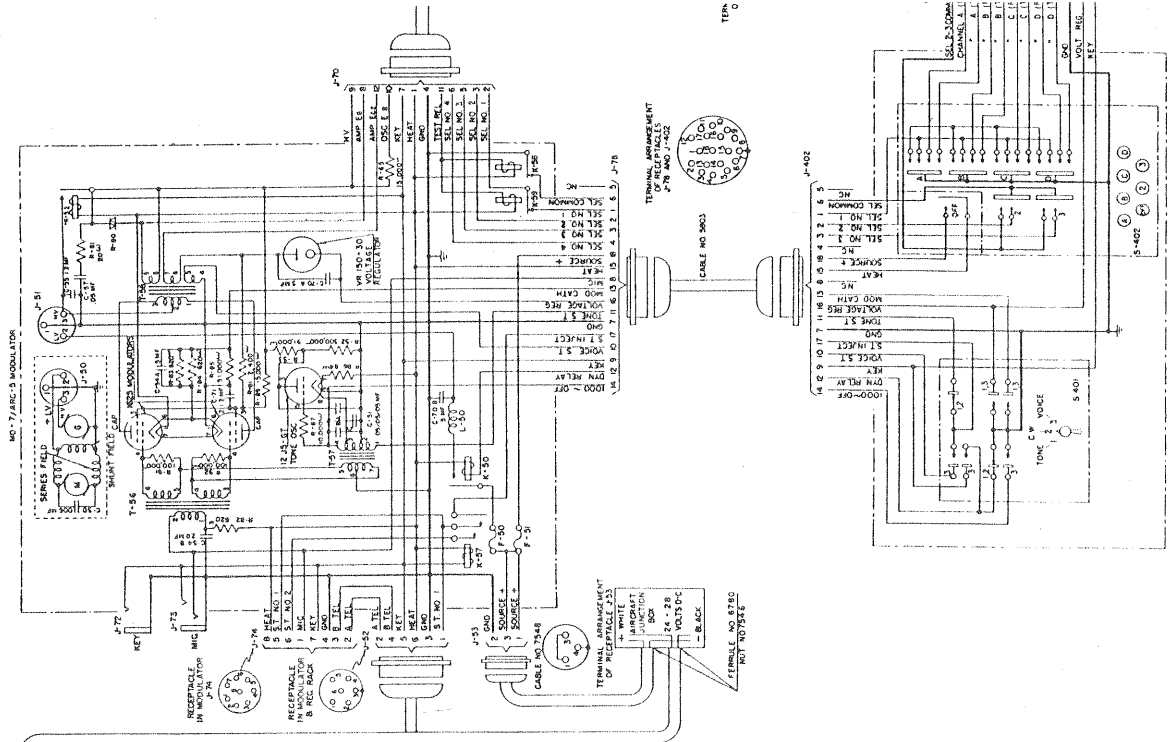


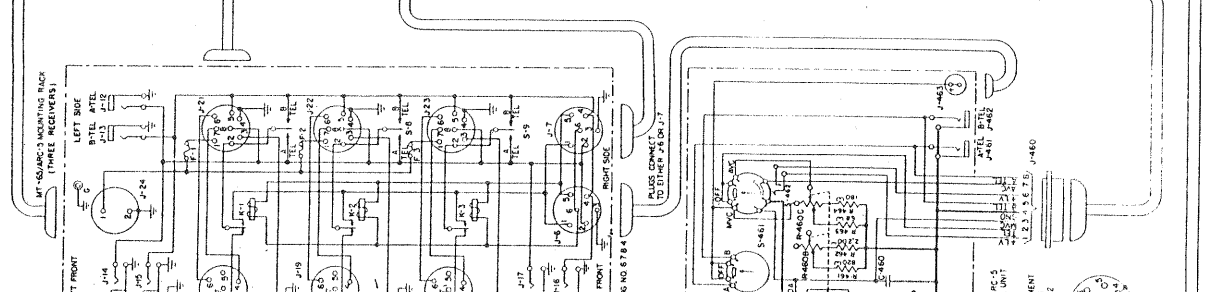
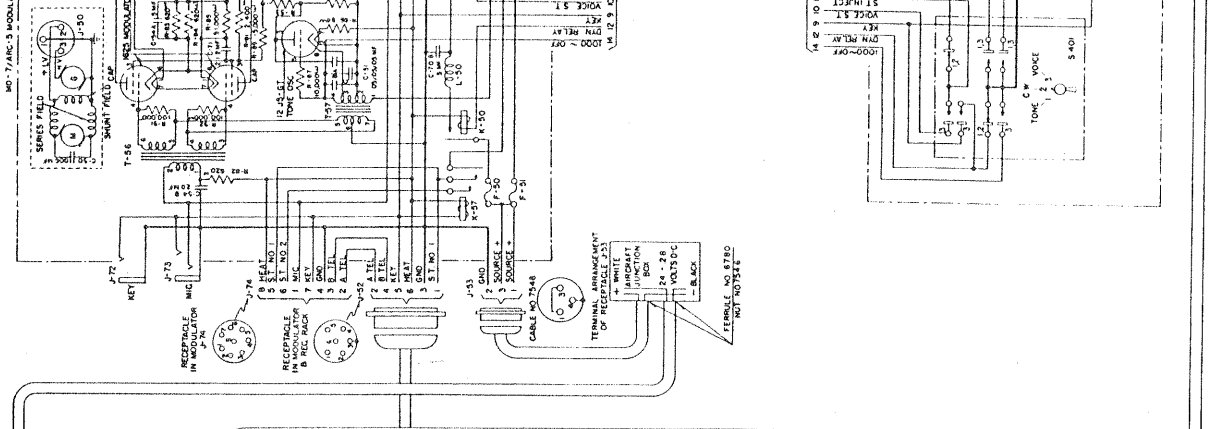
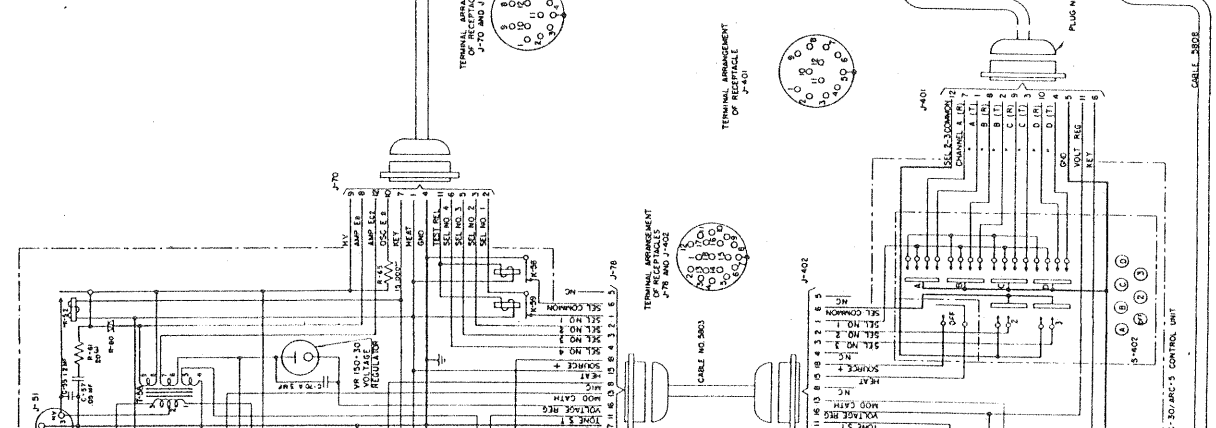
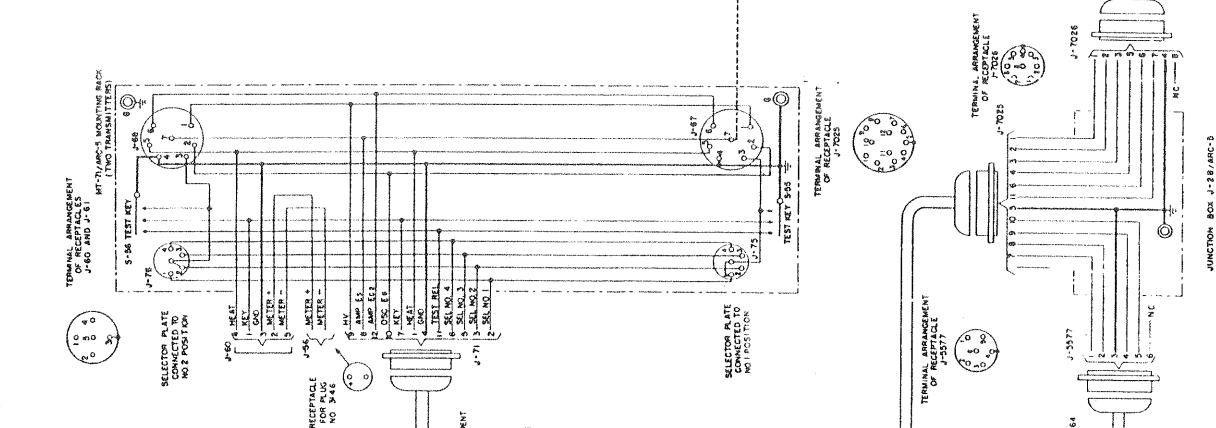
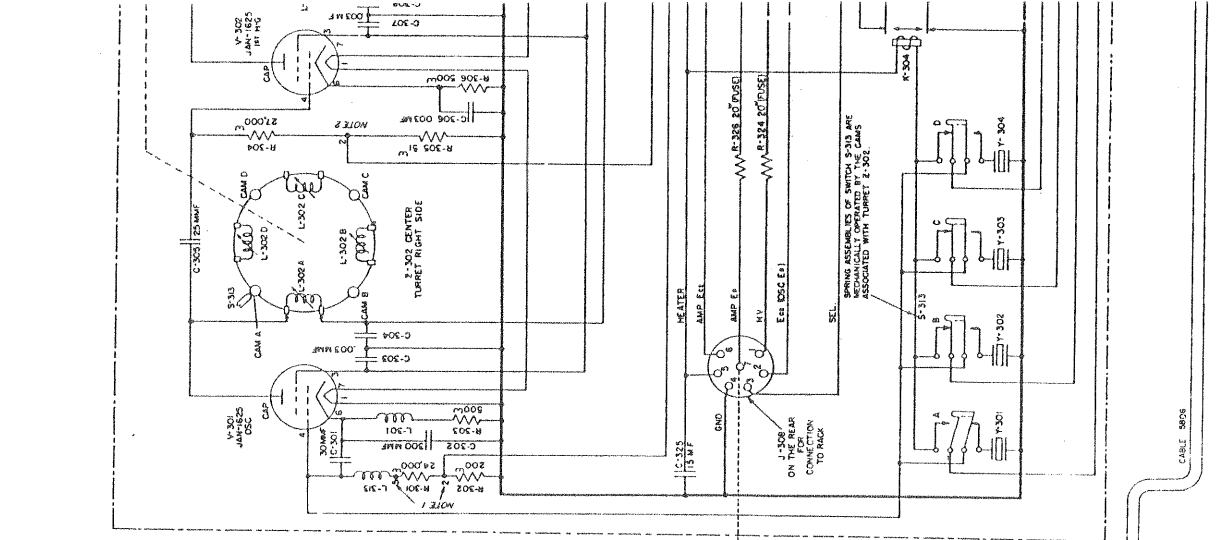
Figure 58—Cabling Diagram—VHF Only



- NOTES:
1. MAKE THESE LEADS AS SHORT AS POSSIBLE.
 2. VHF TRANSMITTER MUST BE CONNECTED TO SELECTOR NO. 1 AT THE RACK.
 3. SIDE TONE INJECTION CONNECTION (OPTIONAL) SELECTOR NO. 1 TO CORD CD-904.
 4. IF NOT USED, COVER RACK RECEPTACLE WITH CAP 4318.
 5. CONTROL UNIT C-42/ARC-5, EMPLOYING MOUNTING PLATE MT-47/ARC-2, IS THAT ALONE FOR THE CONTROL OF RADIO RECEIVER R-28/ARC-5.
 6. THIS RECEPTACLE MAY BE USED WITH CABLE 5805 TO CONNECT THE RADIO EQUIPMENT AN/ARC-5 INTO THE COMMUNICATION SYSTEM OF THE AIRPLANE.
- SPECIAL CABLING DIAGRAMS FOR EACH AIRPLANE WILL BE SUPPLIED BY THE BUREAU OF AERONAUTICS. THESE DIAGRAMS WILL SHOW THE INTERCONNECTION OF MORE THAN ONE TYPE OF EQUIPMENT.
6. * DYNAMOTORS DY-2/ARR-2 AND DY-24/ARR-2 ARE FURNISHED WITH PARTS AS RECEIVERS AS SHOWN. BOTH DYNAMOTORS ARE INTERCHANGEABLE WITH DYNAMOTOR DM-32-A AND NAVY TYPE-2-25.

Figure 59—Cabling Diagram—L-MF-HF and VHF
RESTRICTED





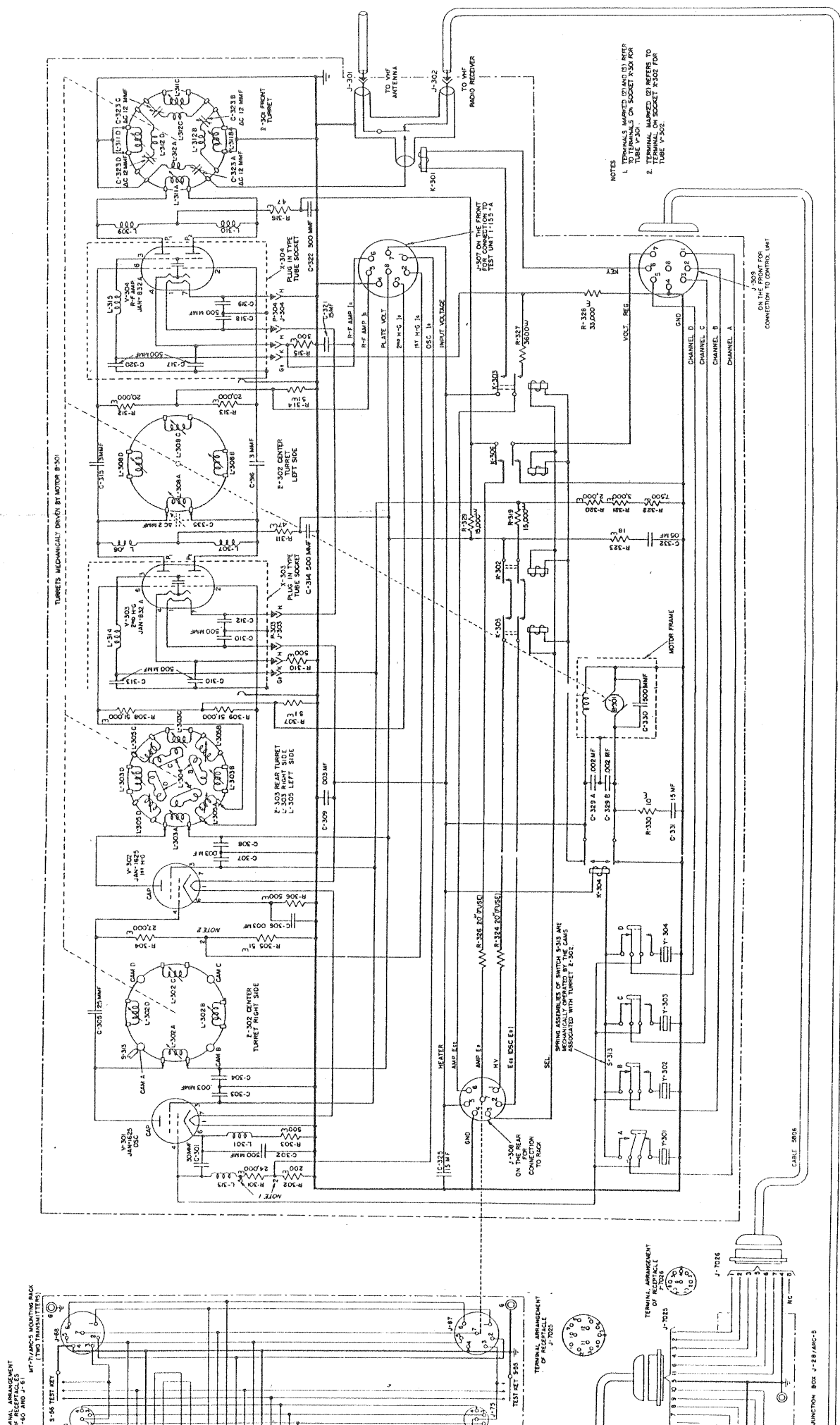
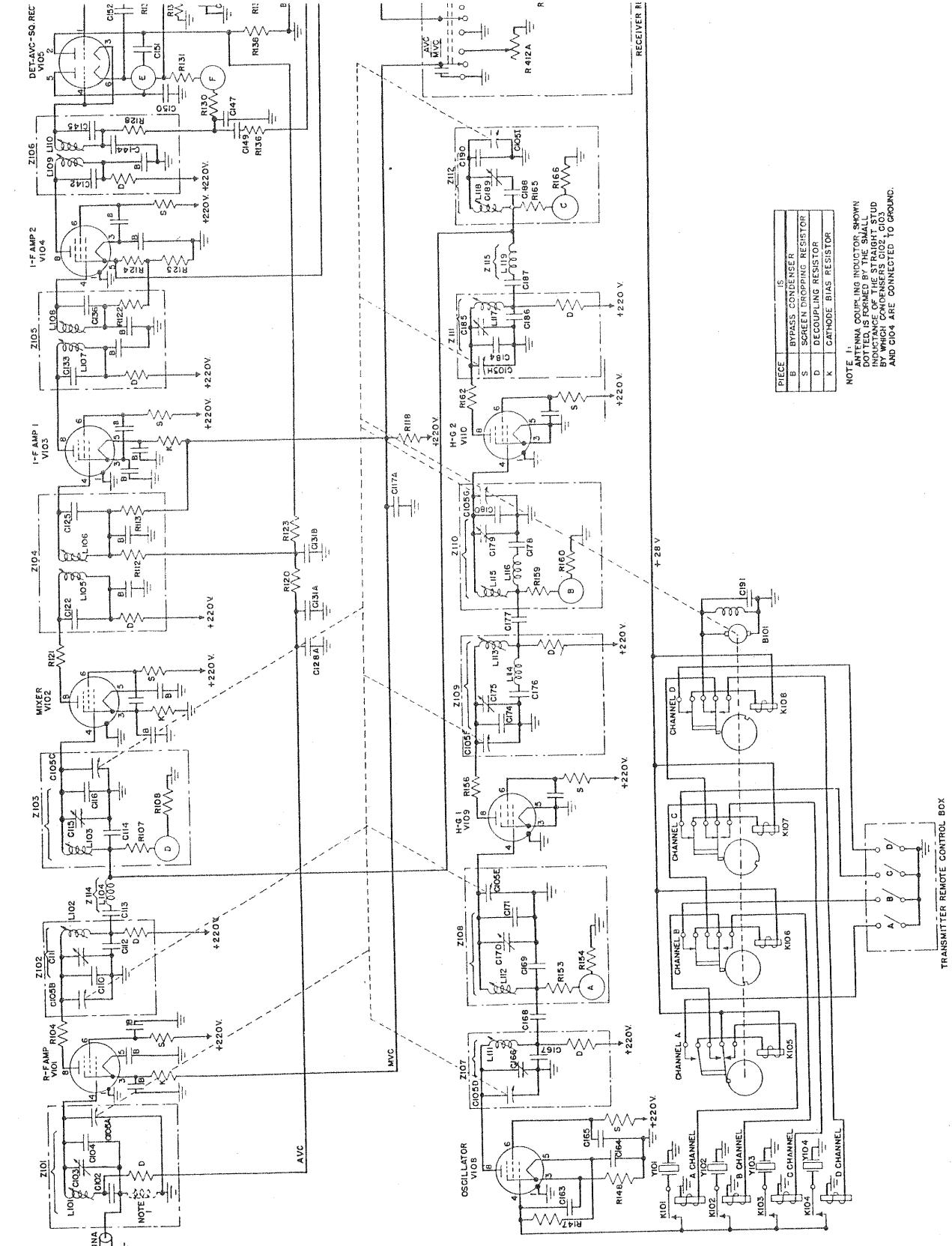


Figure 60—System Schematic Circuit—VHF Only



PIECE	IS
B	BYPASS CONDENSER
S	SCREEN DROPPING RESISTOR
D	DECOUPLING RESISTOR
K	CATHODE BIAS RESISTOR

NOTE 1: ALL TUNING COUPLING INDUCTORS SHOWN DOTTED IS FORMED BY THE SMALL INDUCTION OF THE STRAIGHT STUD BY WHICH COMPONENT IS MOUNTED AND C104 ARE CONNECTED TO GROUND.

TRANSMITTER REMOTE CONTROL BOX

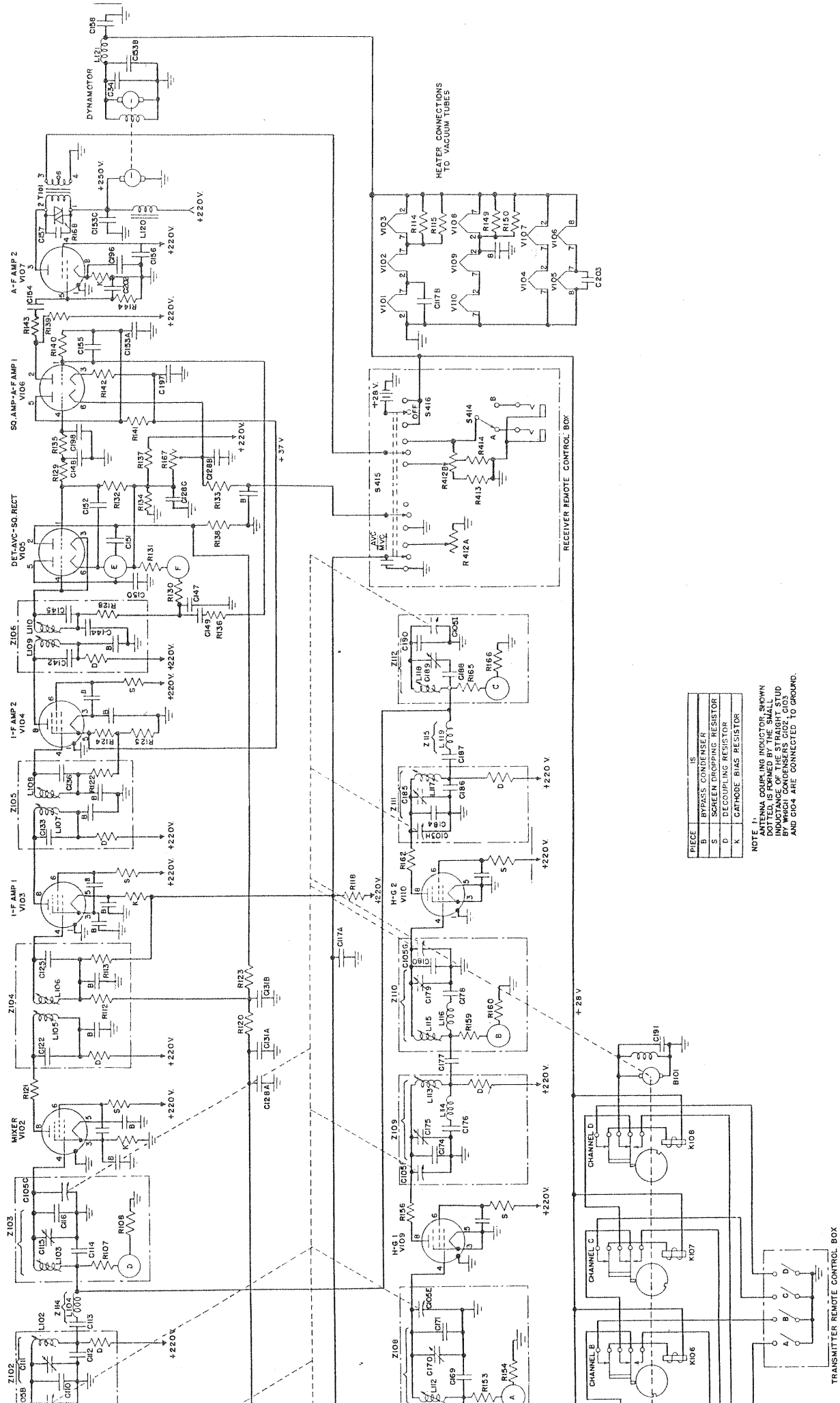
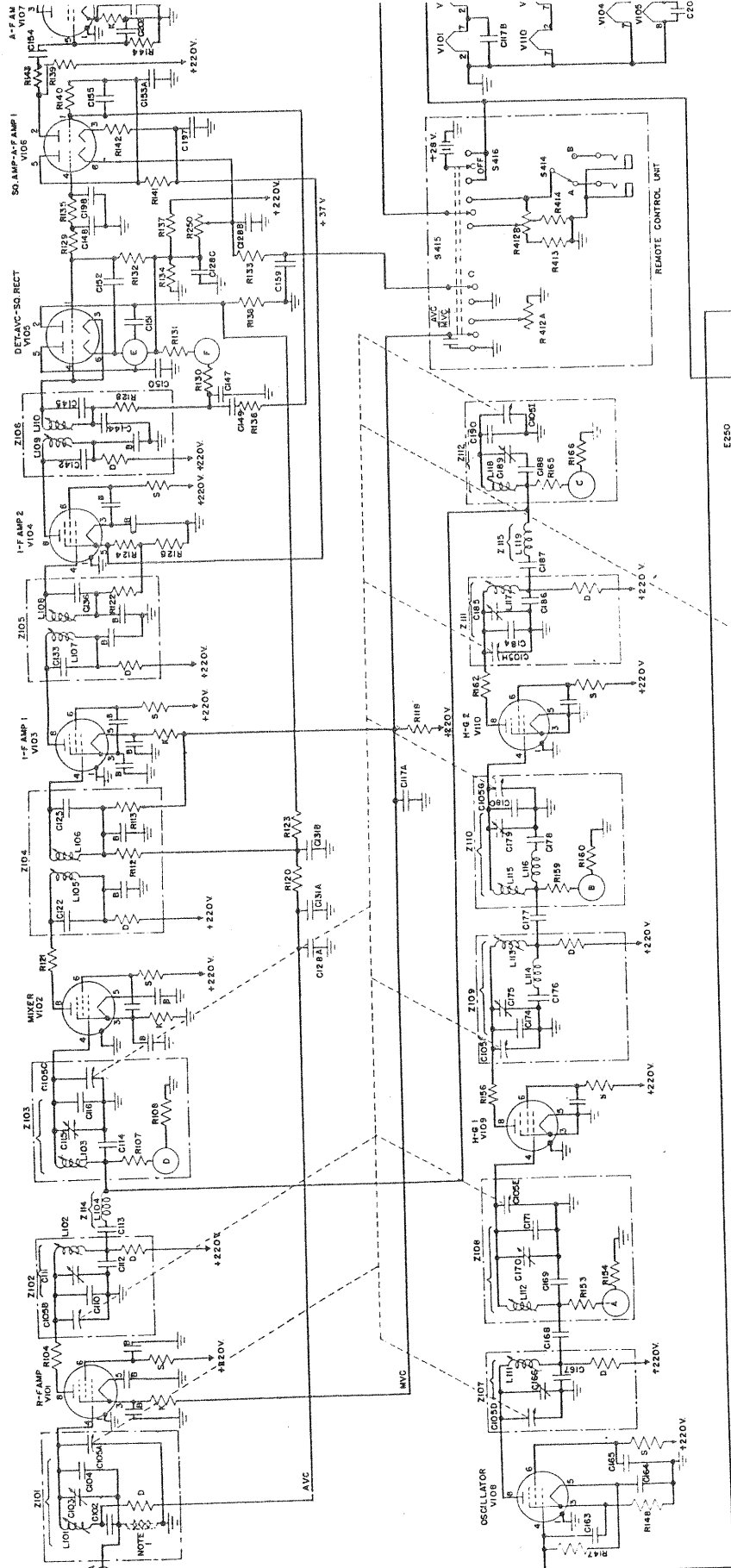


Figure 61—VHF Receiver with Selector O-101—Simplified Schematic Circuit



PIECE	DESCR
B	BYPASS COI
S	SCREEN GRID
D	DECOUPLING
K	GATHOLE BIA

NOTE 1:
ANTENNA COUPLING
DO NOT EXCEED
BY WHICH CONCENTR
AND C104 ARE CO

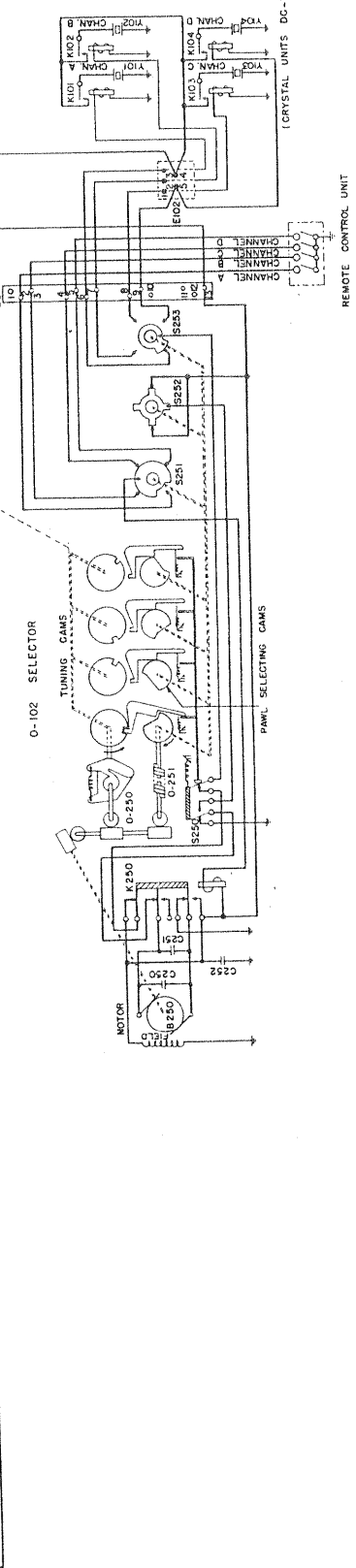


Figure 62—VHF Receiver with Se.

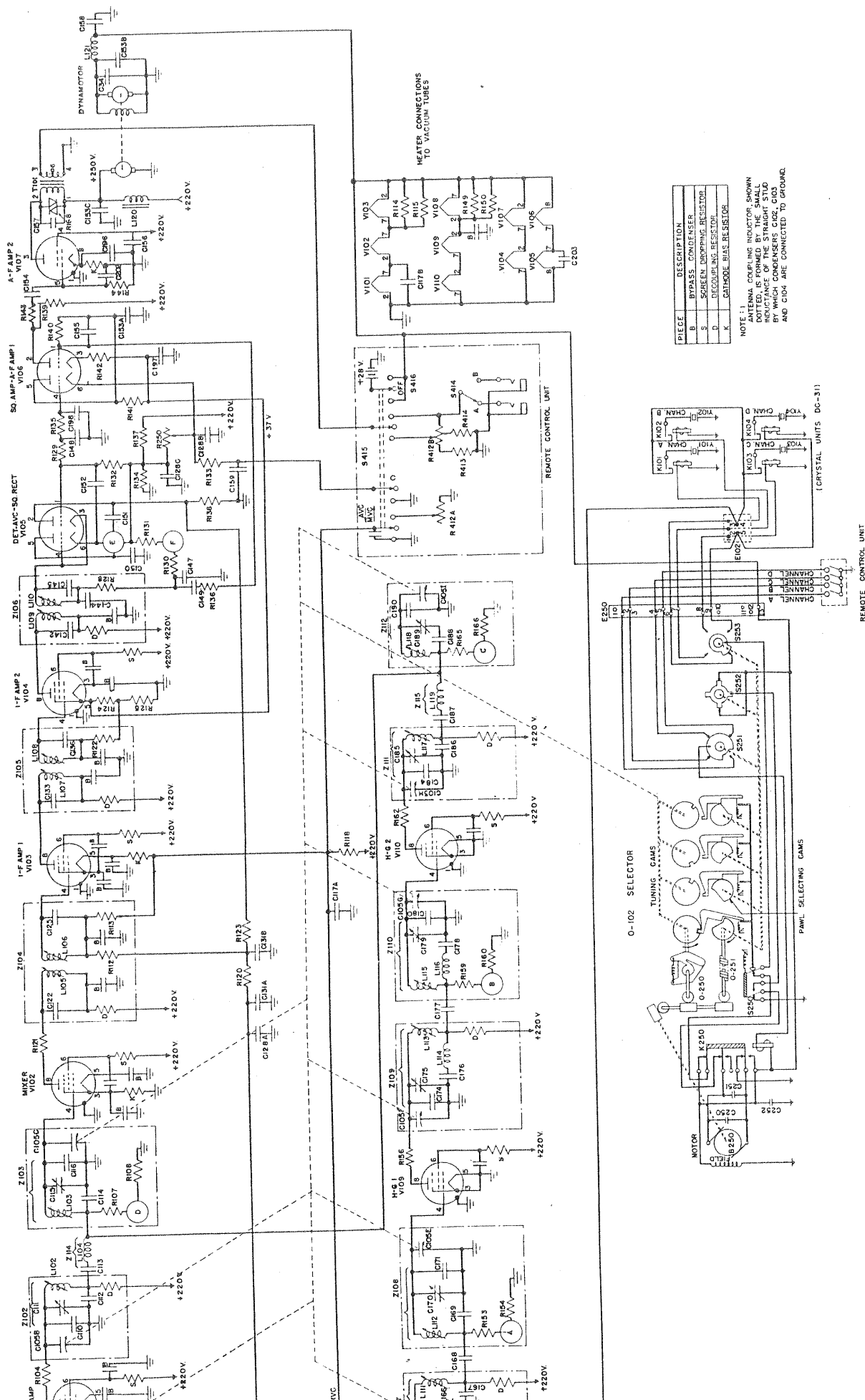


Figure 62—VHF Receiver with Selector O-102—Simplified Schematic Circuit

NOTES

1. THE INDUCTIONS AND CONNECTIONS SHOWN CONSISTS SOLELY OF THE ORIGINAL DESIGN AND C104 ARE CO
2. IN INITIAL PRODU
3. IMPEDANCE, 700
4. THE PART BROU
5. HAVE 10% TOLER
6. SELECTOR PAWS / TWO CAN BE OBT
7. INCLUDES THE BEL

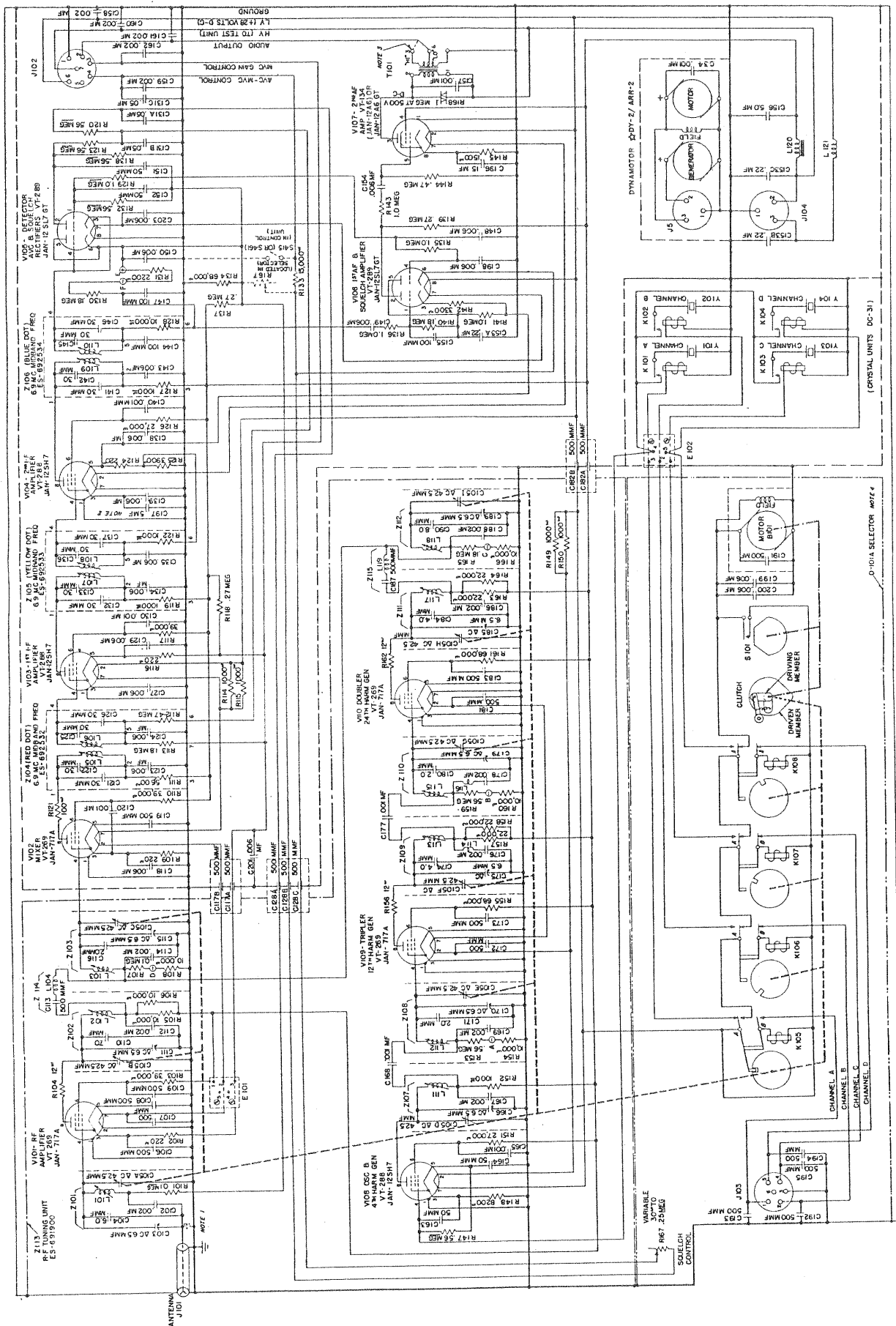
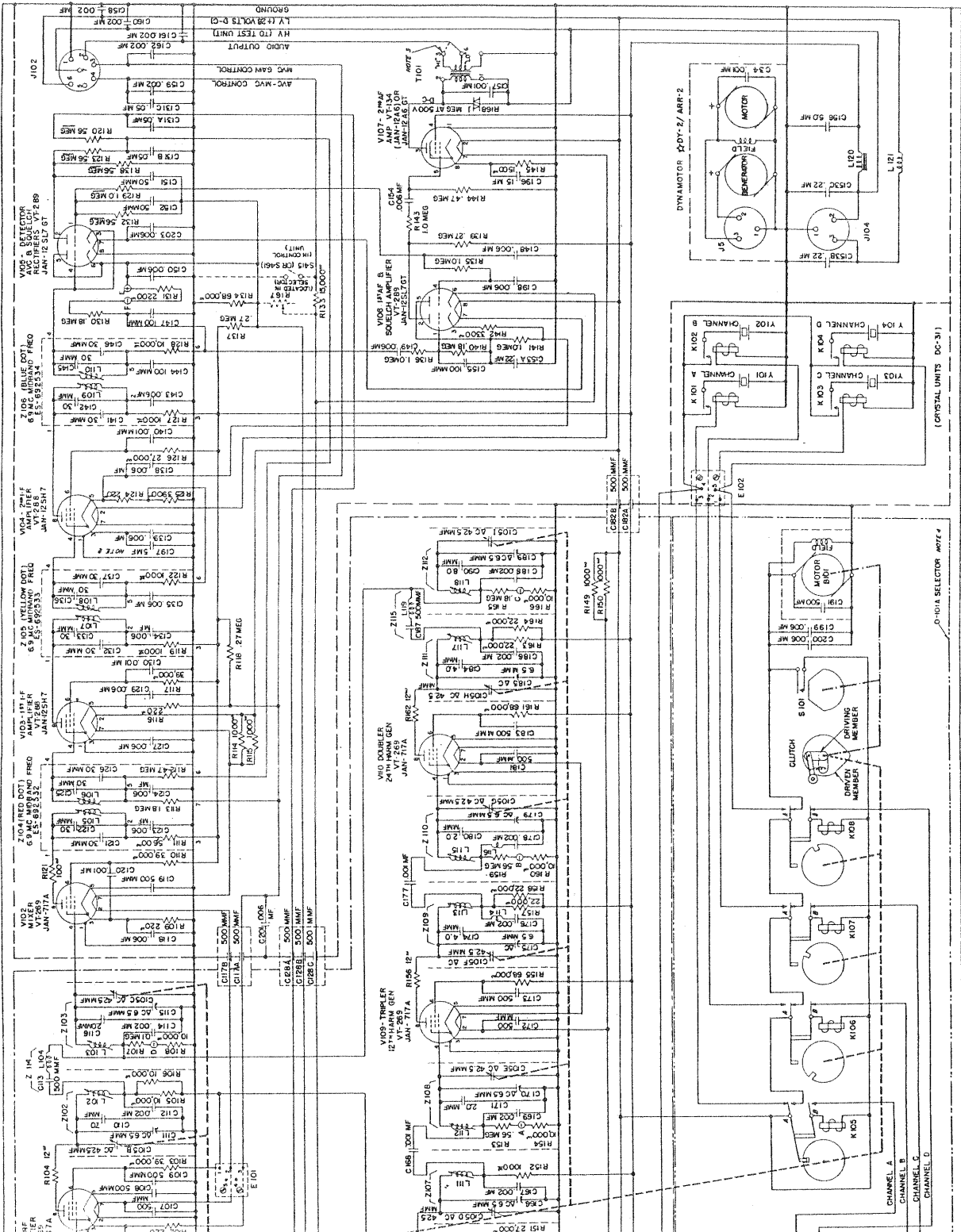
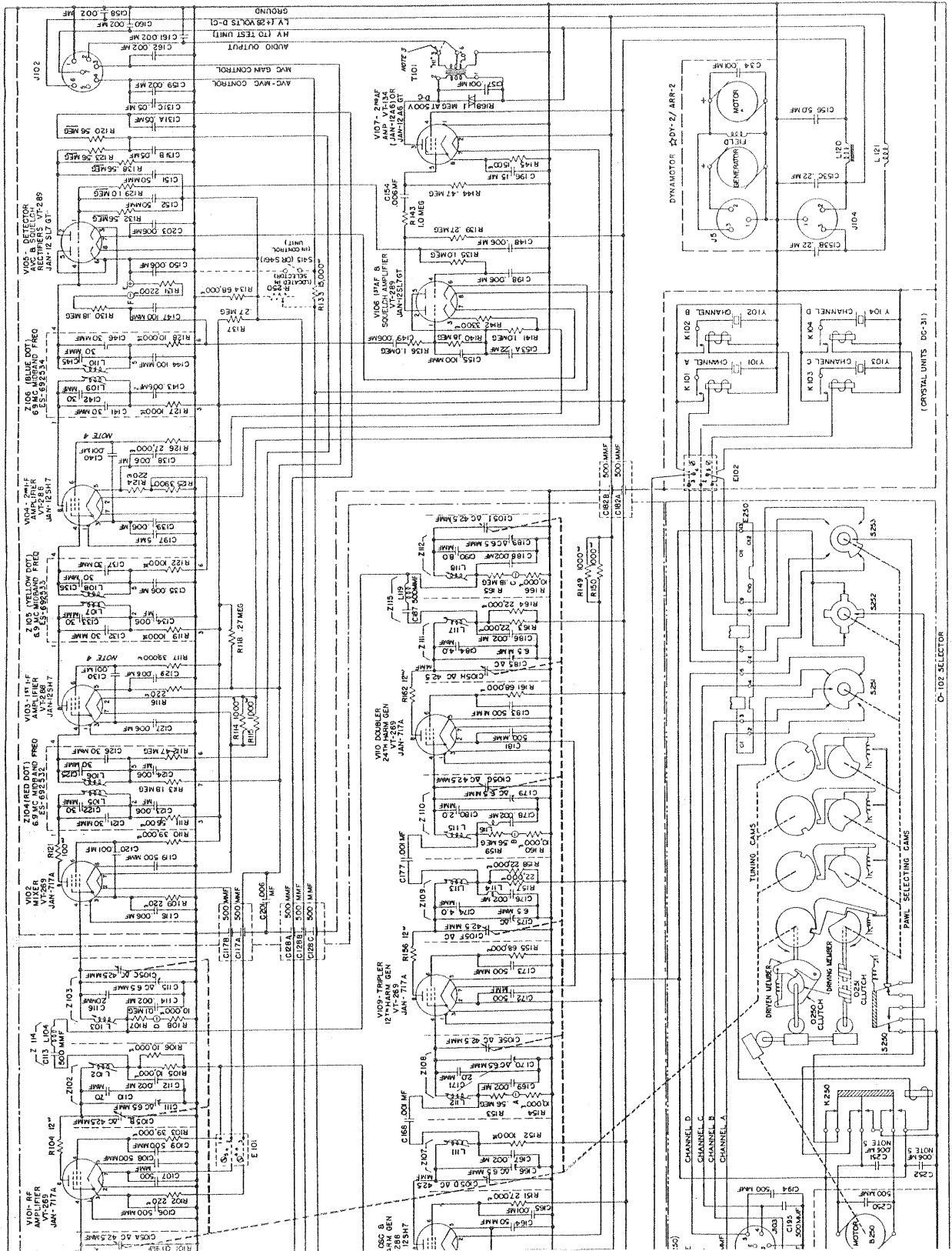


Figure 63—VHF Receiver with Selector O-101A-



- NOTES:
1. THE INDUCTOR SHOWN DOTTED, PROVIDING ANTENNA COUPLING, CONSISTS SOLELY OF THE STRAIGHT TUBO BY WHICH C102, C103 AND C104 ARE CONNECTED TO GROUND.
 2. IN PARALLEL WITH C103.
 3. TRANSFORMER T-101 IS SHOWN CONNECTED FOR USE WITH LOW IMPEDANCE ANTENNAS. TRANSFORMER T-101 IS SHOWN CONNECTED FOR USE WITH HIGH IMPEDANCE ANTENNAS. TRANSFORMER T-101 IS SHOWN CONNECTED FOR USE WITH LOW IMPEDANCE ANTENNAS. TRANSFORMER T-101 IS SHOWN CONNECTED FOR USE WITH HIGH IMPEDANCE ANTENNAS.
 4. THE FIRST BROADCAST RECEIVERS WERE EQUIPPED WITH 0-101 SELECTORS. THESE SELECTORS DO NOT HAVE SWITCH S-101. THE SELECTORS WERE EQUIPPED WITH THE 0-101 SELECTOR WHICH WAS PRODUCED IN LIMITED QUANTITIES.
 5. 3W AND 100Ω DENOTES 20% TOLERANCE. ALL OTHER RESISTANCES HAVE 10% TOLERANCE.
 6. SELECTOR PAWLS ARE INTERLOCKED MECHANICALLY SO THAT NO SELECTOR PAWL CAN BE OPERATED UNLESS THE OTHER SELECTOR PAWLS REMAINS IN THE DEPRESSOR POSITION.

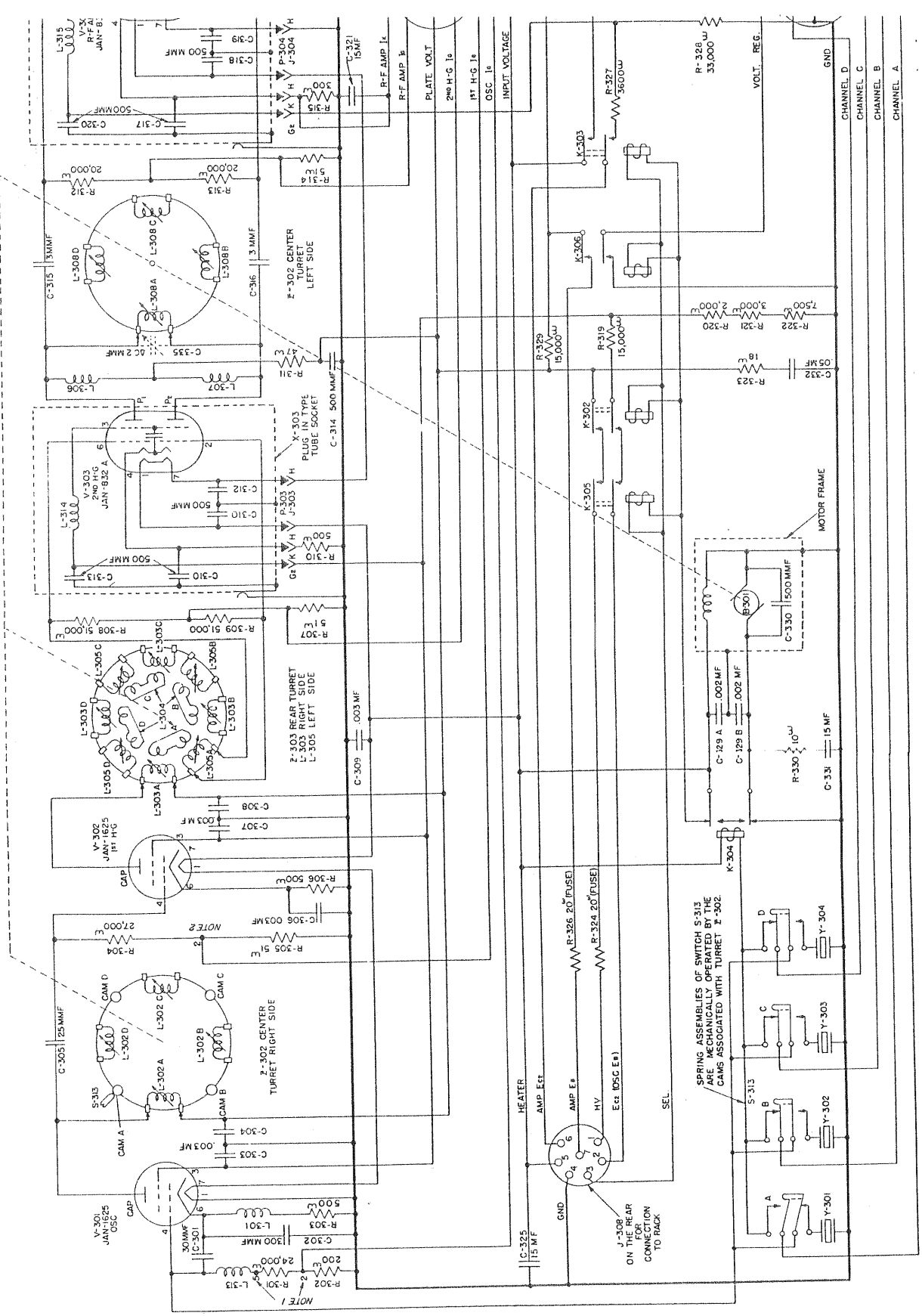
Figure 63—VHF Receiver with Selector O-101A—Complete Schematic Circuit



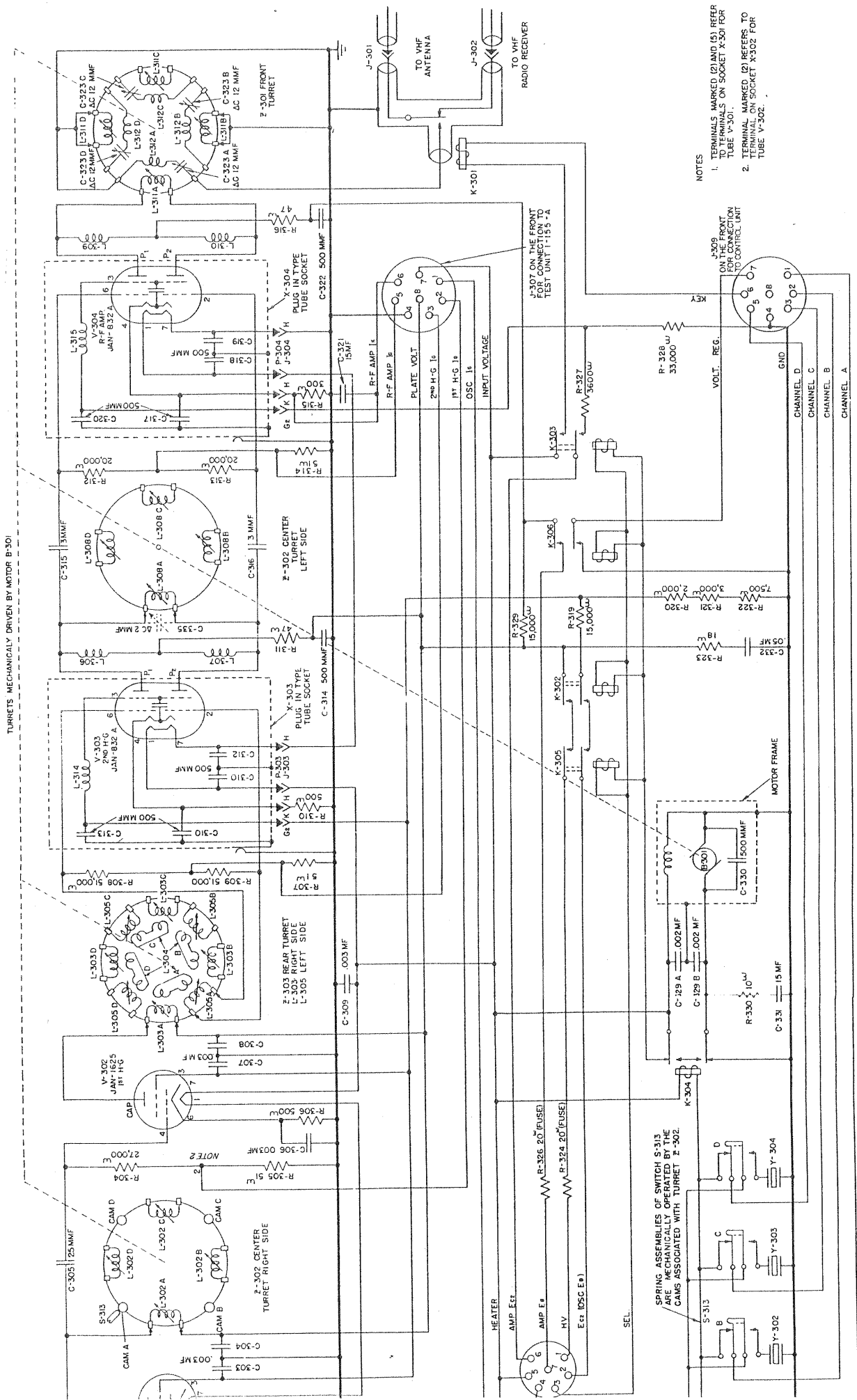
1. THE INDUCTOR SHOWN DOTTED, PROVIDING ANTENNA COUPLING, AND C024 ARE CONNECTED TO GROUND BY WHICH C024/C023 RESISTANCES HAVE 10% TOLERANCE. ALL OTHER RESISTANCES HAVE 10% TOLERANCE.
2. ALL AND MEGS DENOTE 20% TOLERANCE. ALL OTHER RESISTANCES HAVE 10% TOLERANCE.
3. TRANSFORMER C01 IS SHOWN CONNECTED TO THE SECONDARY OF V101. IN EARLY PRODUCTION (APPROX 8000 RECEIVERS) CAPACITORS C030 AND C036 WERE CHANGED TO 100 MF AND V104 AND V105 WERE REPLACED BY JAN-777A AND JAN-777B. IN LATER PRODUCTION (APPROX 15000 RECEIVERS) CAPACITOR C030 WAS CHANGED TO 50 MF AND V104 AND V105 WERE REPLACED BY JAN-777A AND JAN-777B. CAPACITOR C036 IS ELIMINATED; CAPACITOR C035 IS REPLACED BY C033 (10 MF).
4. IN EARLY PRODUCTION (APPROX 8000 RECEIVERS) CAPACITORS C030 AND C036 WERE CHANGED TO 100 MF AND V104 AND V105 WERE REPLACED BY JAN-777A AND JAN-777B. IN LATER PRODUCTION (APPROX 15000 RECEIVERS) CAPACITOR C030 WAS CHANGED TO 50 MF AND V104 AND V105 WERE REPLACED BY JAN-777A AND JAN-777B. CAPACITOR C036 IS ELIMINATED; CAPACITOR C035 IS REPLACED BY C033 (10 MF).
5. IN RECEIVERS BEARING SERIAL NUMBERS ABOVE 15000, CAPACITOR C036 IS ELIMINATED; CAPACITOR C035 IS REPLACED BY C033 (10 MF).

Figure 6-4—VHF Receiver with Selector O-102—Complete Schematic Circuit

TURRETS MECHANICALLY DRIVEN BY MOTOR B-301



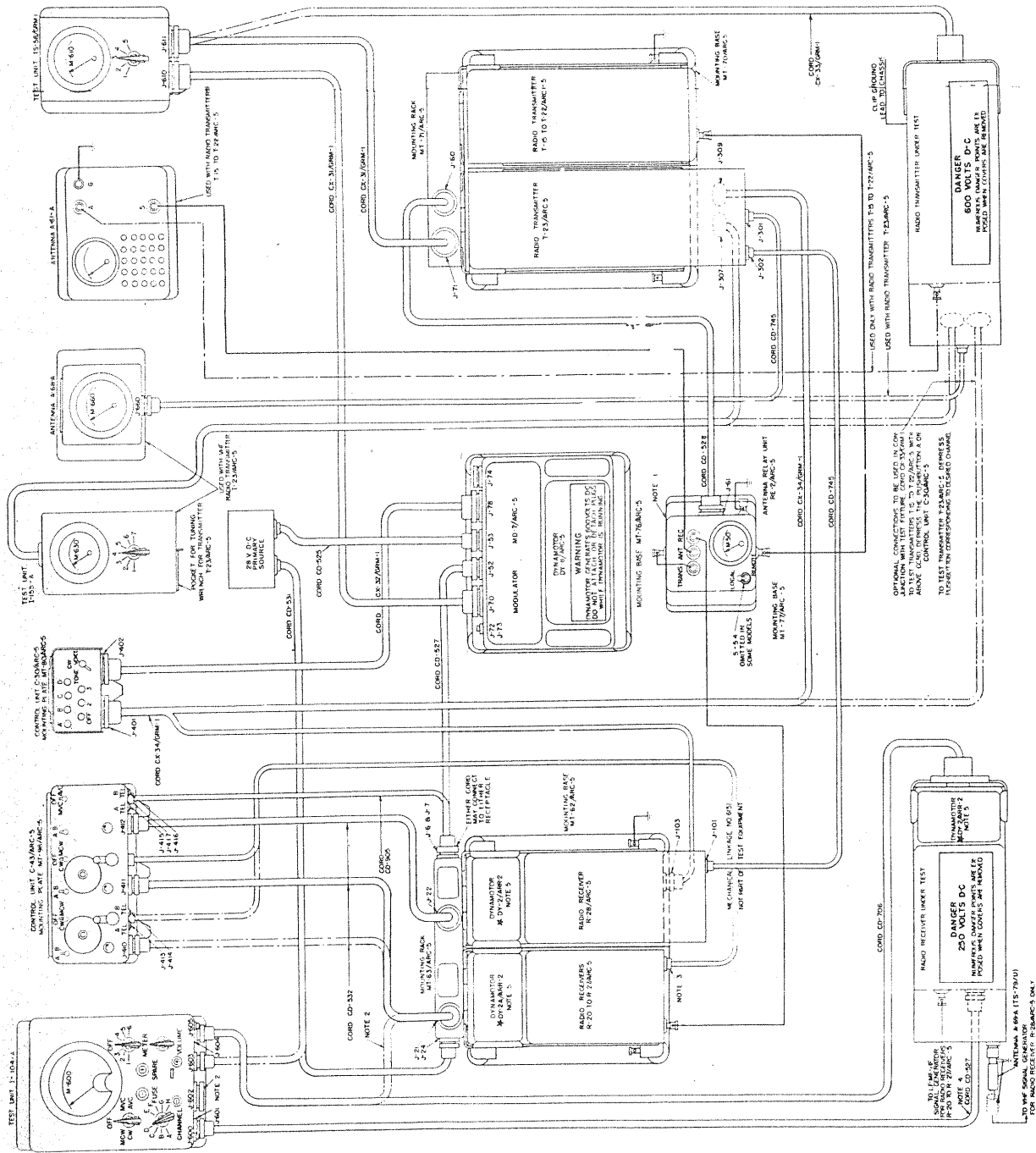
Figure



NOTES

1. TERMINALS MARKED (2) AND (5) REFER TO TERMINALS ON SOCKET X-301 FOR TUBE V-301.
2. TERMINAL MARKED (2) REFERS TO TERMINAL ON SOCKET X-302 FOR TUBE V-302.

Figure 65—VHF Transmitter—Schematic Circuit



FOR RADIO RECEIVER R-20/ARC-5 ONLY

RESTRICTED
AN 08-10-195

TABLE C
VHP RADIO TRANSMITTER T-23/ARC-5

TEST UNIT TO-50/ARC-1	TEST UNIT TO-50/ARC-1	TEST UNIT TO-50/ARC-1	TEST UNIT TO-50/ARC-1	TEST UNIT TO-50/ARC-1	TEST UNIT TO-50/ARC-1
METER POSITION	FULL-SCALE MARKS	CIRCUIT MEASURED	NORMAL VALUES	NORMAL VALUES	NORMAL VALUES
1	50 VOLTS	HEATER CIRCUIT VOLTAGE	27V	27V	1A
2	500 VOLTS	REGULATED SCREEN VOLTAGE	145-160V	145-160V	25-30
3	1000 VOLTS	PLATE VOLTAGE	530-560V	530-560V	50-70
4	50 MILLIAMPERES	CURRENT THROUGH SCREEN VOLTAGE DIVIDER	10-10MA	10-10MA	20-46
5	250 MILLIAMPERES	PLATE CURRENT--R-P AMPLIFIER	80-90MA	80-90MA	10-23
		ANTENNA CURRENT (MILLIAMPERES R-F)	APPROXIMATELY 325		

TABLE B
TEST UNIT T-15/A-4
VHP RADIO TRANSMITTER T-23/ARC-5

METER POSITION	FULL-SCALE MARKS	CIRCUIT MEASURED	NORMAL VALUES	NORMAL VALUES	NORMAL VALUES
1	1.75 MILLIAMPERES	OSC GRID CURRENT	.07-1.2MA	4-70	
2	6.00 MILLIAMPERES	1ST R-C GRID CURRENT	1.5-5.5MA	75-90	
3	6.00 MILLIAMPERES	2ND R-C GRID CURRENT	1.5-5.5MA	75-90	
4	6.00 MILLIAMPERES	R-P AMP GRID CURRENT	1.2-4.8MA	20-80	
5	100 MILLIAMPERES	R-P AMP CATHODE CURRENT	80-90MA	90-95	
6	50 VOLTS	HEATER CIRCUIT VOLTAGE	27V*	5*	
7	1000 VOLTS	PLATE VOLTAGE--ALL TUBES	530-560V	55-95	

TABLE A
TEST UNIT T-10/A-4
VHP RADIO RECEIVER R-29/ARC-5

METER POSITION	FULL-SCALE MARKS	CIRCUIT MEASURED	NORMAL VALUES	NORMAL VALUES	NORMAL VALUES
1	50 VOLTS	INPUT VOLTAGE--PRIMARY SOURCE	28V	56	
2	10 AMPS	INPUT CURRENT FROM PRIMARY SOURCE	1.7-2.5A	17-25	
3	500 VOLTS	PLATE VOLTAGE--UNFILTERED PLATE SUPPLY AT THE TRANSFORMER	240-260V	48-96	
4	200 VOLTS	NO CONNECTION			
5	25 MILLIAMPERES	CATHODE CURRENT OF R-P AMP FIRST I-P AMP AND GRID CONTROL BLEEDER RESISTOR (AFC OR 50 OHM-RVC)	10-25 MA	40-100	
6	50 MICROAMPERES	DIRECT CONNECTIONS TO 2 AMP - BLENDING POSTS FOR MEASUREMENT OF SIGNAL CURRENTS TO ANTENNA RELAY UNIT AND RADIO RECEIVER R-29/ARC-5. REFER TO INSTRUCTIONS ON ALLOW.			

TABLE D
TEST UNIT T-10/A-4
VHP RADIO RECEIVER R-29/ARC-5

METER POSITION	FULL-SCALE MARKS	CIRCUIT MEASURED	NORMAL VALUES	NORMAL VALUES	NORMAL VALUES
1	50 VOLTS	CONTROL SWITCH IN ON OR OFF POSITION	28V	56	
2	10 AMPS	INPUT CURRENT FROM PRIMARY SOURCE	1.9-1.7A	18-17	
3	500 VOLTS	PLATE SUPPLY TO 12B7, 12X7 AND 12BE TUBES AND SCREEN GRID SUPPLY TO 12AE	230-260V	46-92	
4	200 VOLTS	SCREEN GRID SUPPLY TO 12B7, 12X7 AND 12BE TUBES	176-180V	35-70	
5	25 MILLIAMPERES	CATHODE CURRENT OF R-P AMP AND FIRST I-P AMP	11-13MA	44-60	
6	50 MICROAMPERES	DO NOT USE. KEEP 4 AMP - BLENDING POSTS SHORT (CONNECTED TO PROTECT INSTRUMENT)			

* CONNECTIONS TO PRIMARY SOURCE POTENTIAL OF 28 VOLTS.

* CONNECTIONS TO PRIMARY SOURCE POTENTIAL OF 28 VOLTS.

** CONNECTIONS TO ANTENNA RELAY UNIT AND RADIO RECEIVER R-29/ARC-5.

** CONNECTIONS TO ANTENNA RELAY UNIT AND RADIO RECEIVER R-29/ARC-5.

*** DO NOT LEAVE METER SWITCH IN POSITION 2 WHILE TUNING.

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TEST SET COMPONENTS

QUANTITY	DESIGNATION	TYPE	USE	REMARKS
1	CRYSTAL UNIT	ARC 7795	1000 KC	DIAL CALIBRATION - RADIO TRANSMITTER T-15/ARC-5
1	CRYSTAL UNIT	ARC 7795	1000 KC	DIAL CALIBRATION - RADIO TRANSMITTER T-15/ARC-5
1	CRYSTAL UNIT	ARC 7795	1000 KC	DIAL CALIBRATION - RADIO TRANSMITTER T-15/ARC-5
1	CRYSTAL UNIT	ARC 7795	1000 KC	DIAL CALIBRATION - RADIO TRANSMITTER T-23/ARC-5
1	CRYSTAL UNIT	DC-30	6252-222 KC	132 MC FREQUENCY TEST FOR RADIO TRANSMITTER T-23/ARC-5
1	CRYSTAL UNIT	DC-30	6253-333 KC	132 MC FREQUENCY TEST FOR RADIO TRANSMITTER T-23/ARC-5
1	CRYSTAL UNIT	DC-30	8111-111 KC	136 MC FREQUENCY TEST FOR RADIO TRANSMITTER T-23/ARC-5
1	CRYSTAL UNIT	DC-30	8466-666 KC	156 MC FREQUENCY TEST FOR RADIO TRANSMITTER T-23/ARC-5
1	CRYSTAL UNIT	DC-31	4712-500 KC	120 MC FREQUENCY TEST FOR ALIGNMENT OF RADIO RECEIVER R-29/ARC-5
1	CRYSTAL UNIT	DC-31	5132-500 KC	120 MC FREQUENCY TEST FOR ALIGNMENT OF RADIO RECEIVER R-29/ARC-5
1	CRYSTAL UNIT	DC-31	6212-500 KC	150 MC FREQUENCY TEST FOR ALIGNMENT OF RADIO RECEIVER R-29/ARC-5

SET OF TOOLS (D-150979)
FOR USE IN RADIO RECEIVER R-29/ARC-5

QUANTITY	DESIGNATION	WE PART	REMARKS
3	WRENCH	ES-65779A	NO. 6 HEX. SOCKET HEAD CAP SCREW IN RECEIVER SELECTOR
3	WRENCH	ES-65779B	NO. 6 HEX. SOCKET HEAD CAP SCREW IN RECEIVER SELECTOR
3	WRENCH	ES-65779C	NO. 6 HEX. SOCKET HEAD CAP SCREW IN RECEIVER SELECTOR
3	TOOL	ES-65779D	REMOVING ALL VACUUM TUBES, METAL AND GLASS, IN RADIO RECEIVER
3	TOOL	ES-65779E	RECEIVER TUBES AND FILTERS
3	TOOL	ES-65779F	PER USE IN RADIO TRANSMITTER T-23/ARC-5
3	WRENCH ASSEMBLY	ES-65779G	TRANSMITTER TUBING
3	WRENCH	ES-65779H	NO. 6 HEX. SOCKET HEAD SCREW IN TRANSMITTER CRYSTAL SWITCH
3	WRENCH	ES-65779I	FOR GENERAL USE
3	TOOL	ES-65779J	PHILIP'S HEAD SCREWS
3	TOOL	ES-65779K	RELAY CONTACT CLEANING AND BURNISHING
3	TOOL	ES-65779L	RELAY SPRING ADJUSTMENT
3	TOOL	ES-65779M	RELAY SPRING ADJUSTMENT
3	TOOL	ES-65779N	RELAY SPRING ADJUSTMENT

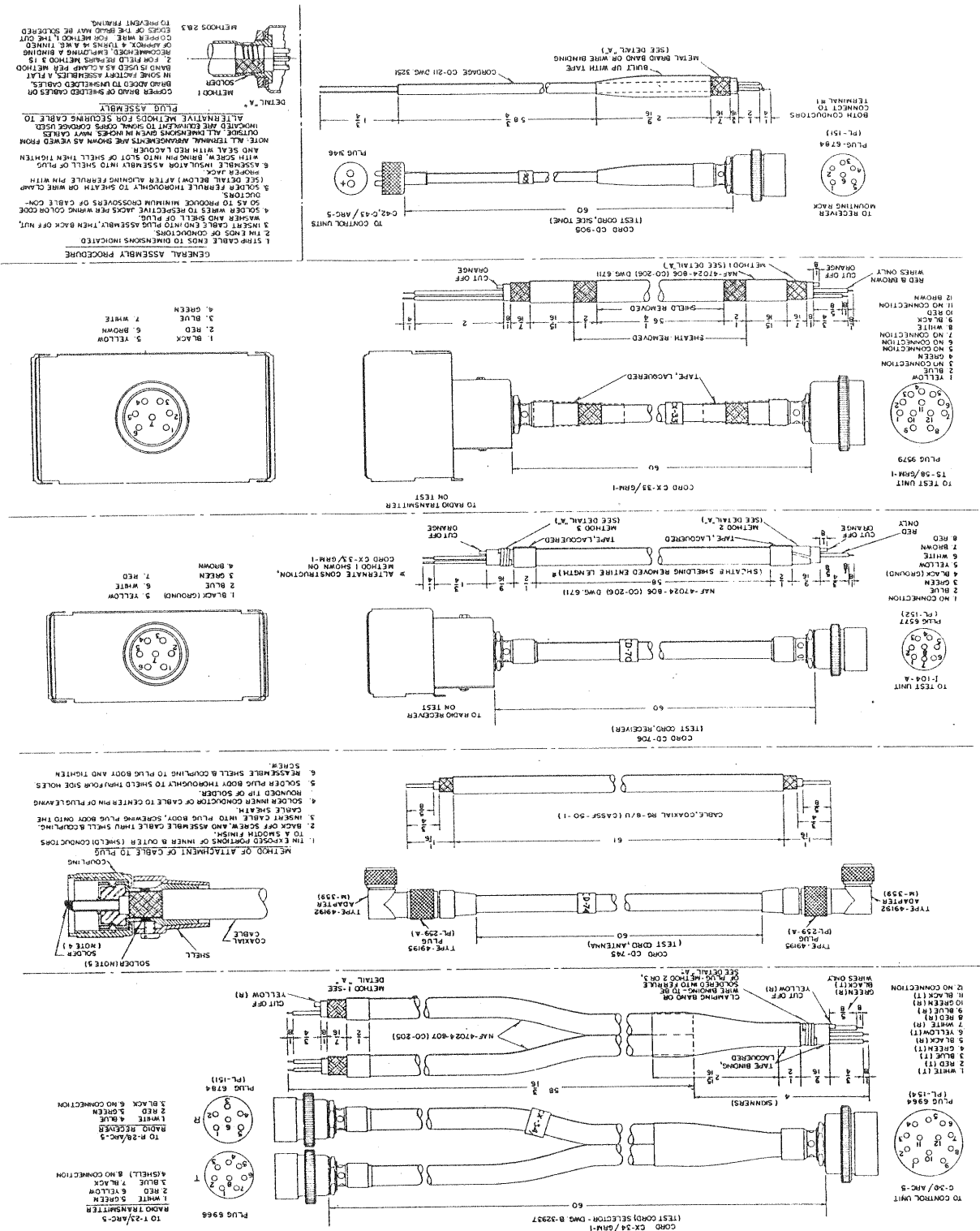
* GOVERNMENT FURNISHED EQUIPMENT.

TEST SET COMPONENTS

QUANTITY	DESIGNATION	NAVY	TYPE	USE	REMARKS
1	ANTENNA	A-61-A		PHANTOM ANTENNA (17 MP, HP RADIO TRANSMITTER)	
1	ANTENNA	A-61-A		ANTENNA ADAPTER (HARD RECEIVER R-29/ARC-5)	
1	CONTROL UNIT	EC-482-A		TRANSMITTER RELAY (17 MP, HP RADIO TRANSMITTER)	
1	CONTROL UNIT	EC-482-A		RECEIVER CONTROL	
1	CORD	CI-27		MATE TO OHM	
1	CORD	CI-27		6-CONDUCTOR	
1	CORD	CI-51		HATTERY TO RECEIVER RACK	
1	CORD	CI-52		R-CONDUCTOR CO. ADAPTER	
1	CORD	CI-143		COAXIAL TRANSMISSION LINE	
1	CORD	CI-905		SHIELDING TEST	
1	CORD	CI-27/ARC-1		TRANSMITTER RACK ADAPTER	
1	CORD	CI-27/ARC-1		18-CONDUCTOR	
1	CORD	CI-27/ARC-1		28-CONDUCTOR	
6	DIAGRAM	DI-23-A		INSTRUCTIONS FOR TEST EQUIPMENT AN/GRM-1	
1	MOUNTING BASE	MT-279-A		TRANSFORMER (TRANSFORMING) TUBES	
1	MOUNTING BASE	MT-279-A		MOUNTING FOR MT-71/ARC-5 ON PT-271-A RECEIVER RACK	
1	MOUNTING BASE	MT-292-A		MOUNTING FOR MT-71/ARC-5 RADIO TRANSMITTER RACK	
1	MOUNTING BASE	MT-292-A		MOUNTING (ANTENNA RELAY UNIT)	
1	MOUNTING RACK	MT-50/ARC-5		MOUNTING (TRANSMITTER CONTROL C-30/ARC-5)	
1	MOUNTING RACK	MT-63/ARC-5		RACK FOR TWO RADIO RECEIVERS	
1	MOUNTING RACK	MT-71/ARC-5		RACK FOR TWO RADIO TRANSMITTERS	
1	MOUNTING RACK	MT-71/ARC-5		RACK FOR TWO RADIO TRANSMITTERS	
1	TEST UNIT	I-108-A		TEST UNIT FOR RADIO TRANSMITTERS R-29/ARC-5	
1	TEST UNIT	I-108-A		TEST UNIT FOR RADIO TRANSMITTERS	
1	CORD UNIT	CI-157/ARC-1		HEADSET EXTENSION CORD	
1	CORD UNIT	CI-307-A		HEADSET EXTENSION CORD	
1	HEADSET	HS-33		MICROPHONE	
1	HEADSET	HS-33		600-ohm HEADSET (TWO AMP-HI RECEIVERS OR EQUIVALENT)	

* GOVERNMENT FURNISHED EQUIPMENT.

Figure 66—Test Equipment AN/GRM-1—Instruction Diagram



NOTES

1.	WIRES MARKED WITH THE FOLLOWING LETTERS SHALL BE:
P	NO. 18 AWG BARE TINED COPPER WIRE
D	NO. 18 AWG BARE TINED COPPER WIRE RUN AS SHORT AS POSSIBLE
E	NO. 18 AWG BARE TINED COPPER WIRE RUN AS SHORT AS POSSIBLE
F, K, DR, J	ARE IN FORMED CABLE
◇	ARE OPEN FORMED WIRE

- RESISTORS AND CONDENSERS MOUNTED ON THEIR WIRE LEADS SHALL BE SOLDERED AS NEARLY AS POSSIBLE IN THE POSITION OF THE COMPONENT REPLACES.
- LEAVE A SMALL AMOUNT OF LEAD IN WIRES BETWEEN REAR AND CHASSIS ASSEMBLY.
- ALL WIRES SHALL BE STRIPPED TO THE TERMINALS IN ADDITION TO BEING SOLDERED. WHERE ONE WIRE IS USED TO CONNECT TO ALL TERMINALS AND SOLDERED, IT SHALL BE COMPLETED AT ALL TERMINALS AND SOLDERED. ONLY WIRE "TERMINAL" AND "TERMS" ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON CHASSIS.
- LEAD FROM C119A RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119B RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119C RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119D RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119E RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119F RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119G RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119H RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119I RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119J RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119K RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119L RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119M RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119N RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119O RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119P RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119Q RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119R RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119S RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119T RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119U RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119V RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119W RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119X RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119Y RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.
- LEAD FROM C119Z RUNNING TO TERM. 4 SHALL BE COVERED WITH VARNISHED TUBING.

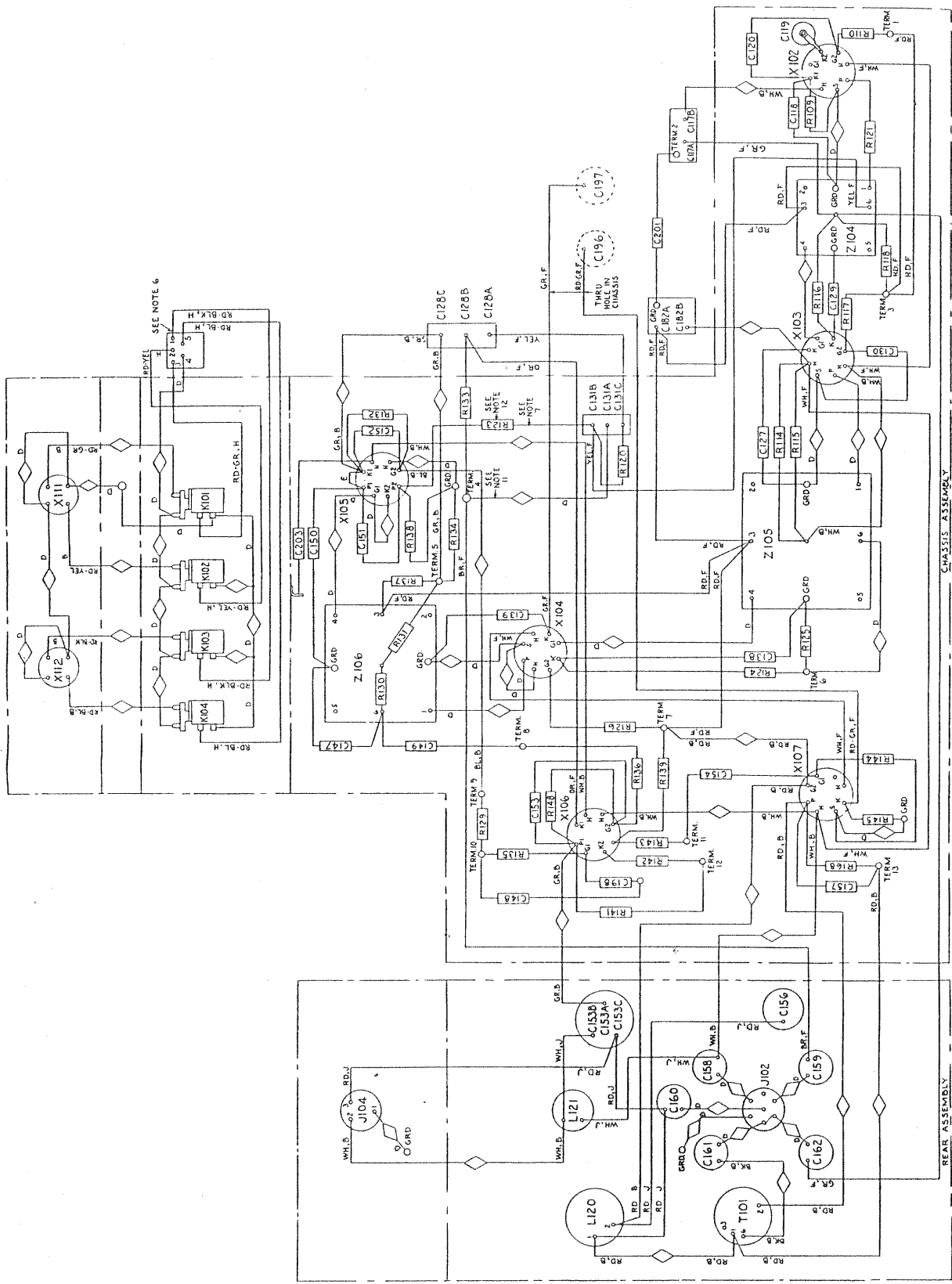
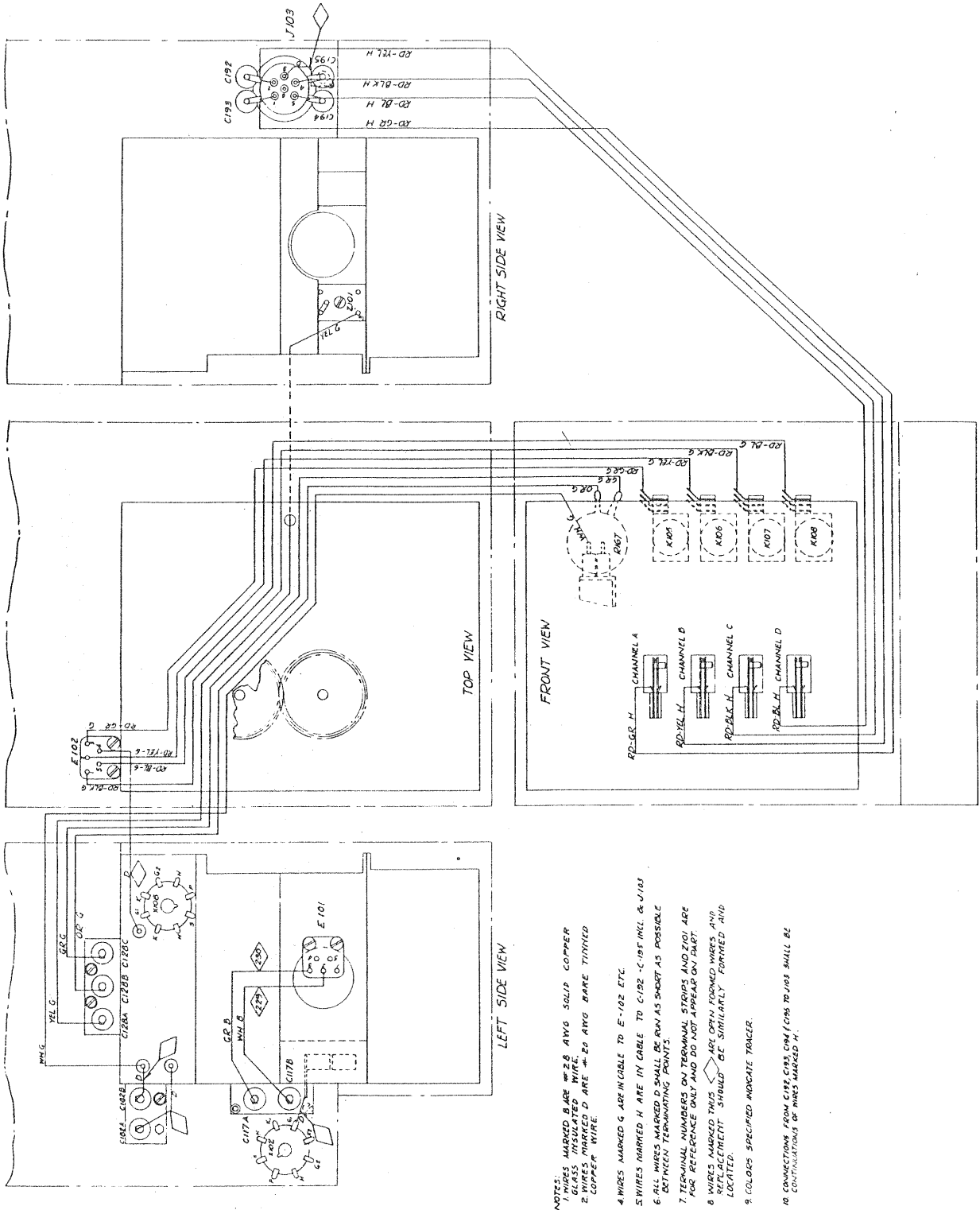
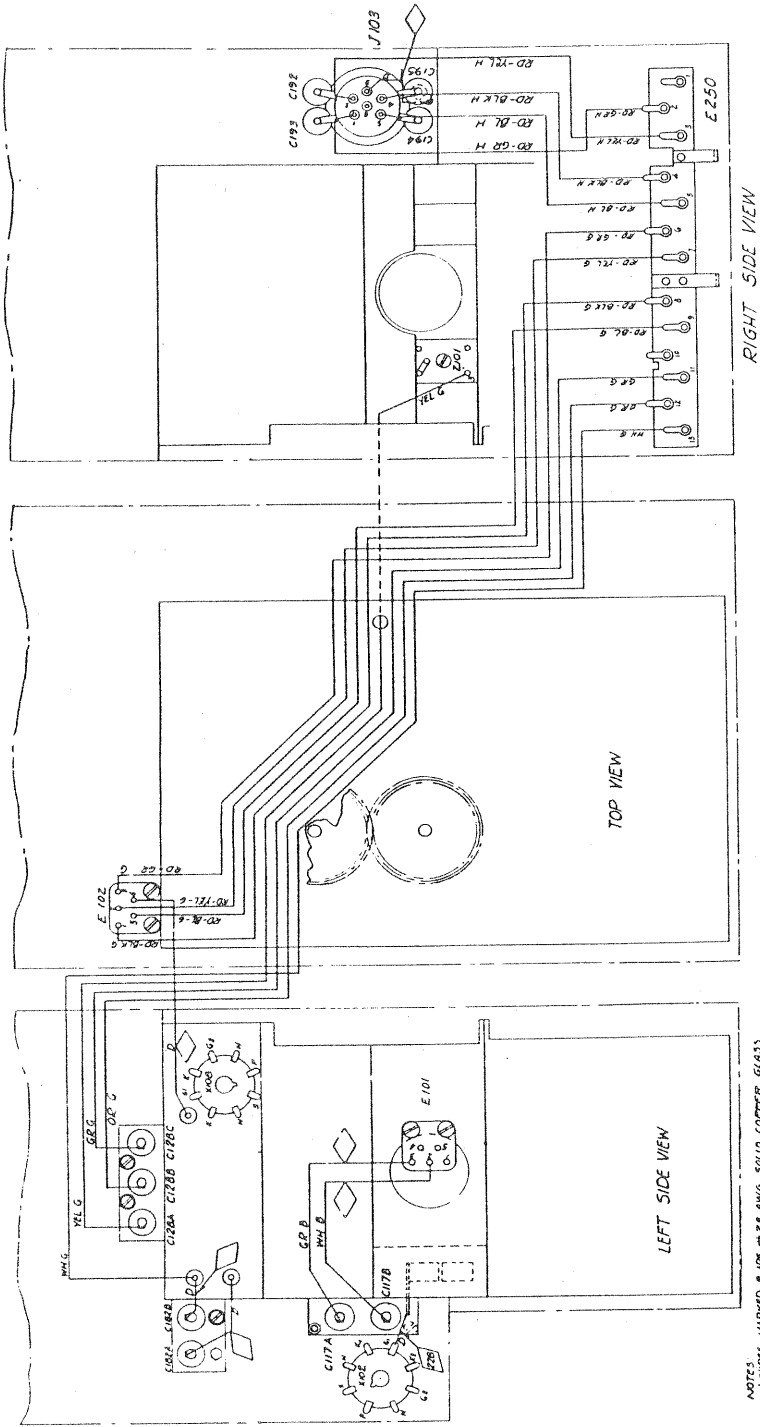


Figure 68—VHF Receiver—Wiring Diagram of Chassis
195/196



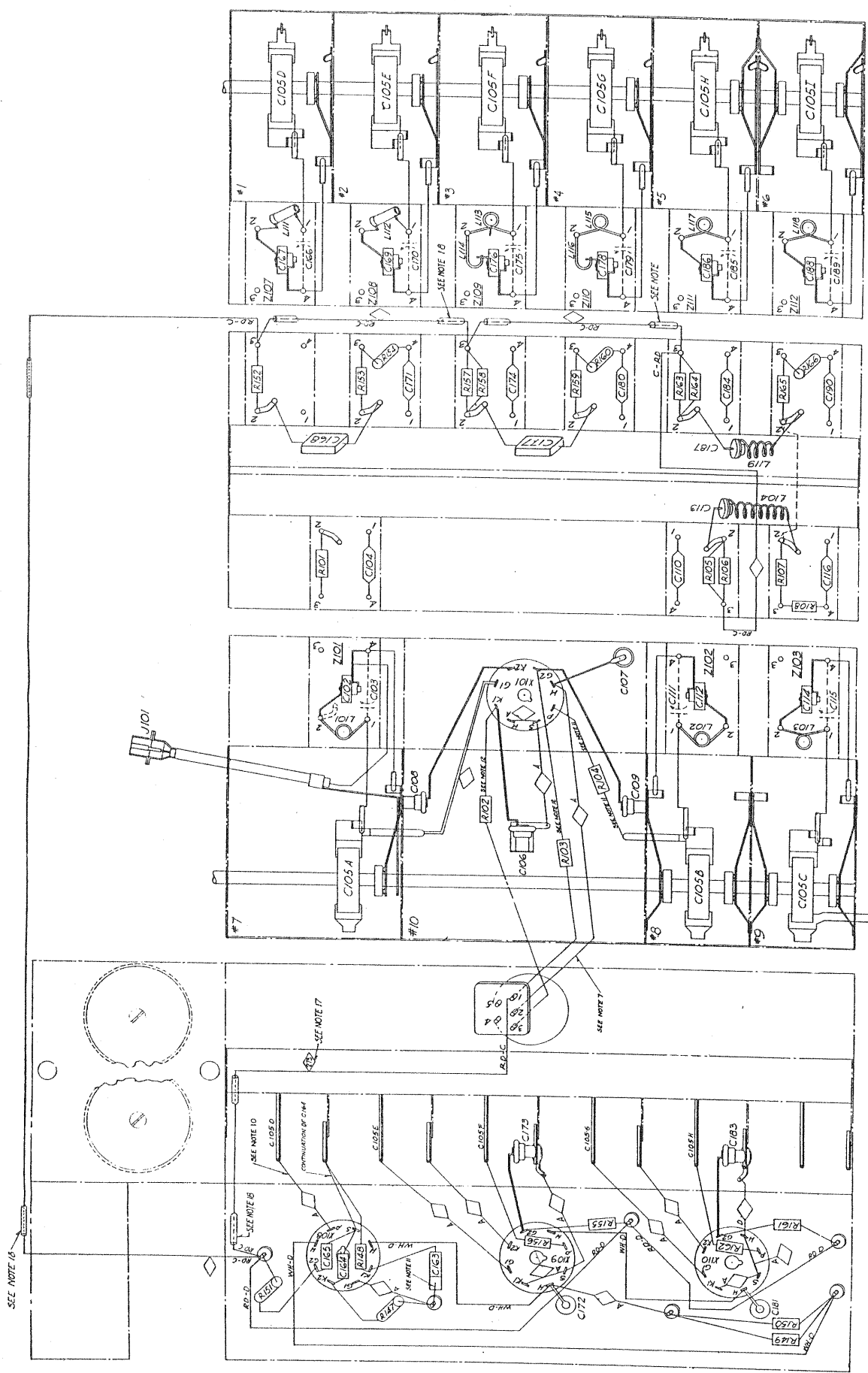
- NOTES:
- 1 WIRES MARKED B ARE #28 AWG SOLID COPPER GLASS INSULATED WIRE.
 - 2 WIRES MARKED D ARE #20 AWG BARE TINNED COPPER WIRE.
 - 3 WIRES MARKED G ARE IN CABLE TO E-102 ETC.
 - 4 WIRES MARKED H ARE IN CABLE TO C-192 -C-195 INCL. & V-103
 - 5 ALL WIRES MARKED D SHALL BE RUN AS SHORT AS POSSIBLE BETWEEN TERMINATING POINTS.
 - 6 TERMINAL NUMBERS ON TERMINAL STRIPS AND J01, ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON PART.
 - 7 WIRES MARKED THIS \triangleleft ARE OPEN ROUNDED WIRES AND WIRE STRIPPED SHOULD BE SIMILARLY POINTED AND LOCATED.
 - 8 COLORS SPECIFIED INDICATE TRACER.
 - 9 NO CONNECTIONS FROM C-191, C-193, OR V-103 TO J03 SHALL BE CONTINUOUS OR WIRES MARKED H.

Figure 69—VHF Receiver and Selector O-101A—Interconnection Wiring Diagram



- NOTES:
 1 WIRES MARKED B ARE #28 AWG SOLID COPPER GLASS INSULATED WIRE.
 2 WIRES MARKED D ARE #20 AWG BARE THINNED COPPER WIRE.
 3 WIRES MARKED G ARE #28 AWG CABLE TO E 102 ETC.
 4 WIRES MARKED H ARE #28 AWG SOLID COPPER GLASS INSULATED WIRE.
 5 WIRES MARKED H ARE IN CABLE TO C 192 - C 195 INCL AND J 103.
 6 ALL WIRES MARKED D SHALL BE RUN AS SHORT AS POSSIBLE BETWEEN TERMINATING POINTS.
 7 TERMINAL NUMBERS 00100 AND TERMINAL STRIPS NOT APPEAR IN APPARATUS CONNECTIONS ONLY AND MAY BE OMITTED.
 8 WIRES MARKED THIS ARE OPEN FORMED WIRES AND REPLACEMENT SHOULD BE SIMILARLY FORMED AND LEADED.
 9 COLORS SPECIFIED INDICATE TRACER. THIS TRACER IS ON A WHITE BACKGROUND. WHERE WHITE IS SPECIFIED IT INDICATES THE BACKGROUND ONLY.

Figure 70—YHF Receiver and Selector O-102—Interconnection Wiring Diagram
199/200
RESTRICTED



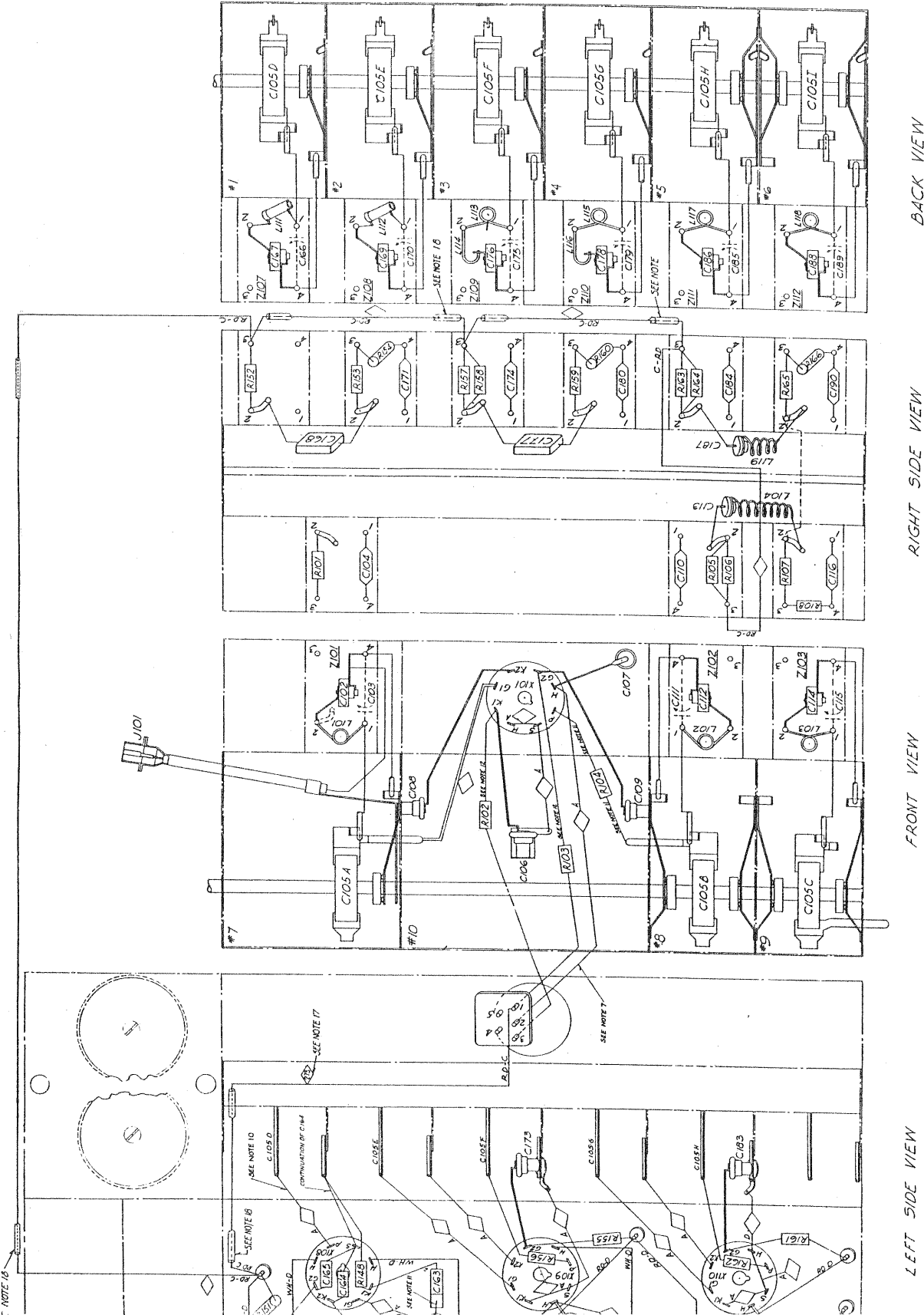
BACK VIEW

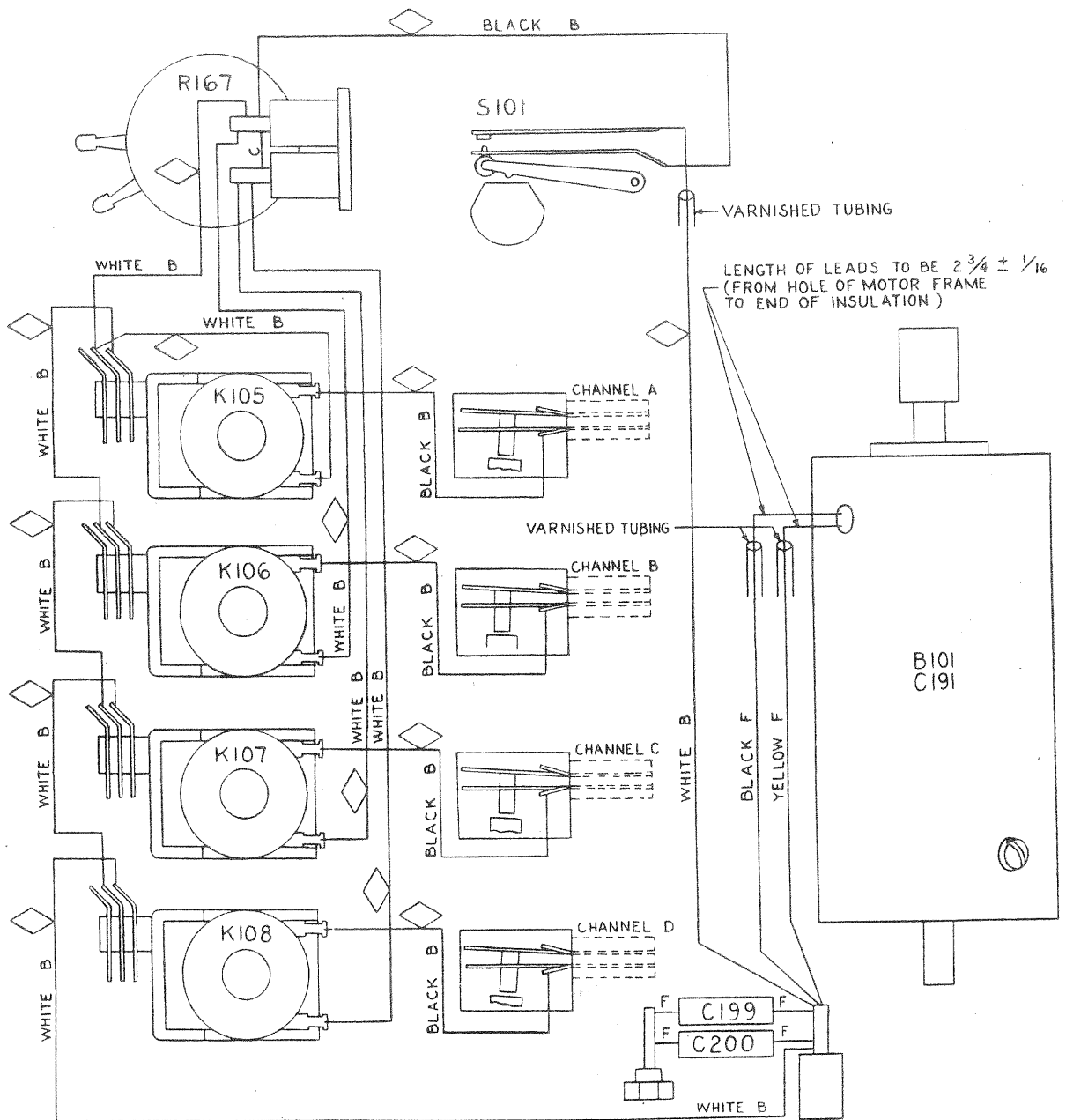
RIGHT SIDE VIEW

FRONT VIEW

LEFT SIDE VIEW

- NOTES:
 1. WIRES MARKED "A" ARE NO.16 AWG BARE TINNED COPPER WIRE.
 2. WIRES MARKED "C" ARE NO.20 AWG INSULATED SOLID WIRE.
 3. RESISTORS & CONDENSERS MOUNTED ON THEIR WIRE LEADS SHALL BE SOLDERED IN THE SAME POSITION AS THOSE REMOVED.
 4. TERMINAL NUMBERS ON CONNECTING PLATES ARE FOR REFERENCE ONLY & DO NOT APPLY ON PARTS.
 5. WIRE MARKED "1" SHALL BE RUN AS SHORT AS POSSIBLE BETWEEN TERMINATING POINTS.
 6. WIRE "2" RUNNING FROM TERMINAL "1" OF X101 CONNECTING PLATE TO TERMINAL "1" OF X101 SHALL BE COVERED WITH VARNISHED TUBING.
 7. WIRE MARKED THIS \diamond INDICATES FORMED AND SHALL BE USED TO INDICATE SHOP SAMPLE.
 8. WIRES NOT MARKED ARE PART OF APPARATUS.
 9. CARE SHOULD BE TAKEN NOT TO DISTURB CAPACITOR TERMINALS.
 10. CARE SHOULD BE TAKEN TO SOLDER TERMINALS TO THE BODY OF THE RESISTOR IS SOLIDIFIED APPROXIMATELY 1/4 INCH FROM TERMINAL OF VACUUM TUBE SOCKET.
 11. APPROXIMATELY 1/4 INCH FROM TERMINAL OF VACUUM TUBE SOCKET.
 12. APPROXIMATELY 1/4 INCH FROM TERMINAL OF VACUUM TUBE SOCKET.
 13. APPROXIMATELY 1/4 INCH FROM TERMINAL OF VACUUM TUBE SOCKET.
 14. APPROXIMATELY 1/4 INCH FROM TERMINAL OF VACUUM TUBE SOCKET.
 15. APPROXIMATELY 1/4 INCH FROM TERMINAL OF VACUUM TUBE SOCKET.
 16. WIRES MARKED "D" ARE IN COBLE.
 17. WIRE MARKED \diamond SHALL BE 7/8 IN. SKIN INSULATION 7/8 IN. FROM ENDS.
 18. COVER WITH VARNISHED TUBING.





- NOTES:
1. LEADS DESIGNATED "B" ARE NO. 20 AWG INSULATED SOLID WIRE.
 2. LEAD DESIGNATED "C" IS A CONTINUATION OF ONE OF THE LEADS TO THE LOWER TERMINAL.
 3. "F" DENOTES LEADS FURNISHED AS PART OF APPARATUS.
 4. WIRES MARKED THUS ◇ ARE OPEN FORMED WIRES
 5. COLORS SPECIFIED INDICATE TRACER. THIS TRACER IS ON A WHITE BACKGROUND. WHERE WHITE IS SPECIFIED IT INDICATES THE BACKGROUND ONLY.

Figure 72—Selector O-101A—Wiring Diagram

- NOTES:
 1. WIRES MARKED "A" ARE IN CABLE.
 2. WIRES MARKED "B" ARE NO 22 AWG SOLID WIRE.
 3. WIRES MARKED "F" ARE FURNISHED WITH APPARATUS.
 4. WIRES MARKED "G" ARE OPEN FORMED WIRES.
 5. NUMBER IS FOR REFERENCE ONLY AND SHALL BE USED TO INDICATE SHOP SAMPLE.
 6. TERMINALS 11, 10 & 10 ON S251, S252 & S253 RESPECTIVELY ARE BENT PERPENDICULAR TO PLANE OF SWITCHES BEFORE SOLDERING.

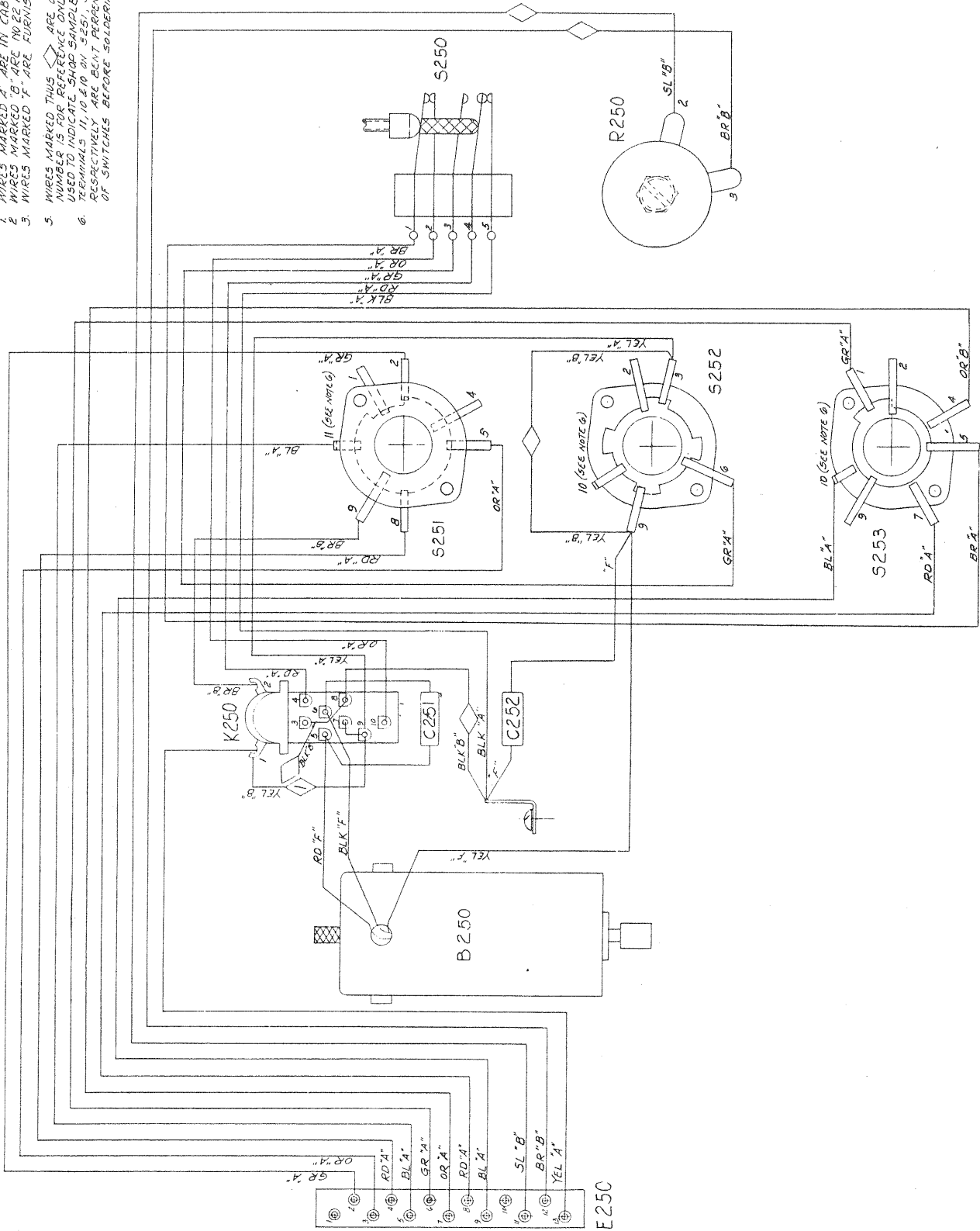
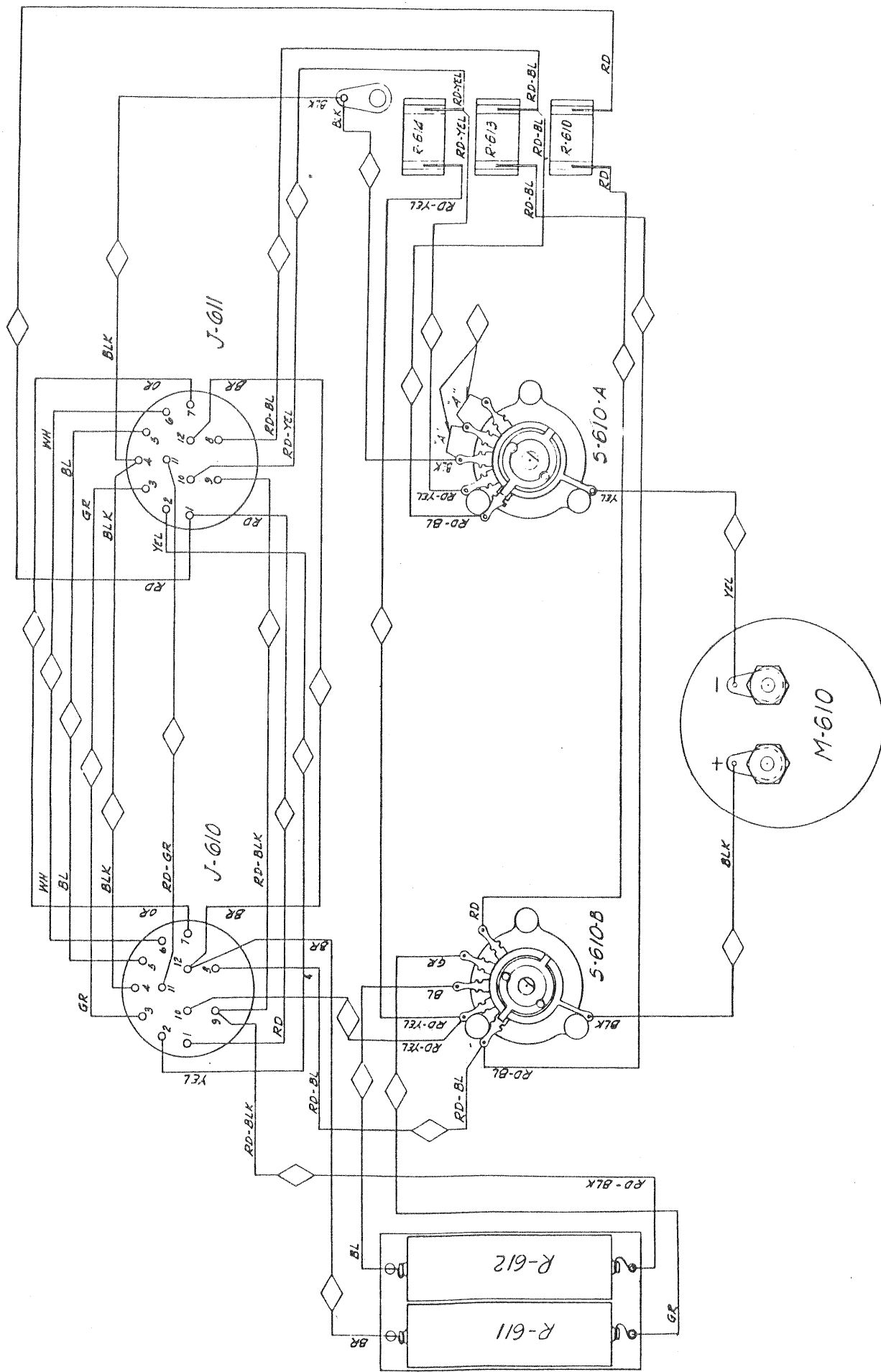


Figure 73—Selector O-102—Wiring Diagram



Figure

- NOTES:
1. COLORS SPECIFIED INDICATE TRACERS. THIS TRACER IS ON A WHITE BACKGROUND WHEN WHITE IS SPECIFIED IT INDICATES THE BACKGROUND ONLY.
 2. WIRES MARKED 'B' ARE IN 20 AWG SOLID WIRE.
 3. WIRES MARKED 'Y' ARE 10/10 AWG STRANDED WIRE PER ITEM IN OPEN FORM.
 4. WIRES MARKED 'C' ARE 20 AWG WIRE IN CABLE.
 5. WIRES MARKED '1' ARE 20 AWG BARE THIN WIRE.
 6. WIRES MARKED '1' ARE 20 AWG BARE THIN WIRE.
 7. WIRES MARKED '1' ARE FURNISHED WITH APPROPRIATE.
 8. \diamond INDICATES SHIELD SAMPLE.
 9. WIRES MARKED 'X' SHOULD BE AS SHORT AS POSSIBLE WITH ALLOWABLE SLACK FOR FLEXIBILITY.
 10. WIRES MARKED 'S' SHALL BE LOADED TO PROVIDE FLEXIBILITY.
 11. ALL CONNECTIONS SHALL BE MECHANICALLY SECURED AND SOLDERED.
 12. AFTER SOLDERING TO RECEPTACLES THE WIRE SHALL BE TIGHTENED TOGETHER IN TWO PLACES WITH WAVED THREAD.
 13. THE INDICATED WIRES TOGETHER WITH WAVED THREAD.
 14. COVER LEAD WITH VARNISHED TUBING TO EXTEND WITHIN 1/4 IN. OF TERMINAL AND AGAINST END OF R390.
 15. TIE TO CERAMIC BAR WITH ONE LOOP OF COPD.
 16. BEFORE SOLDERING WIRES, COVER WITH VARNISHED TUBING.

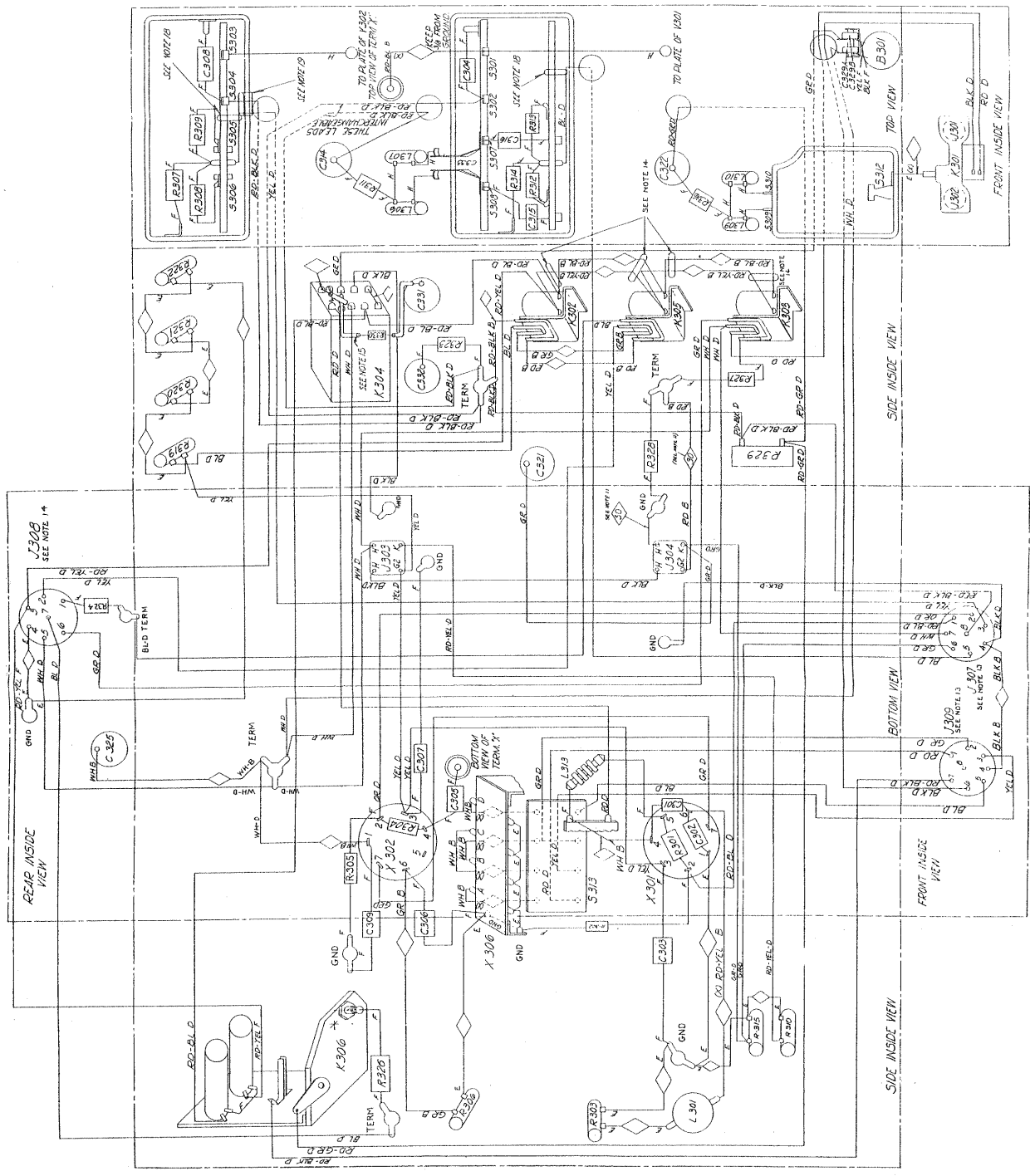
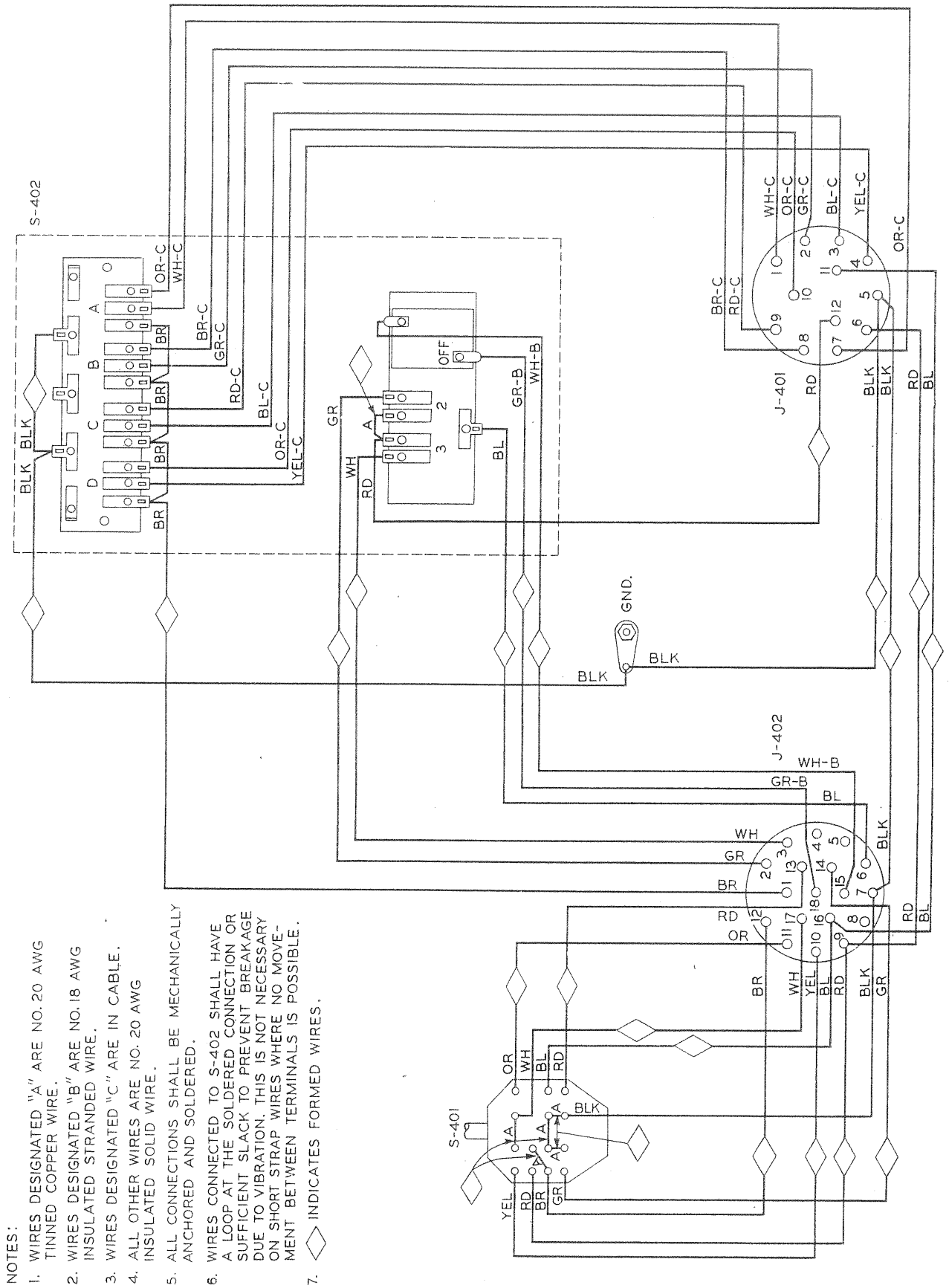


Figure 74—VHF Transmitter—Wiring Diagram

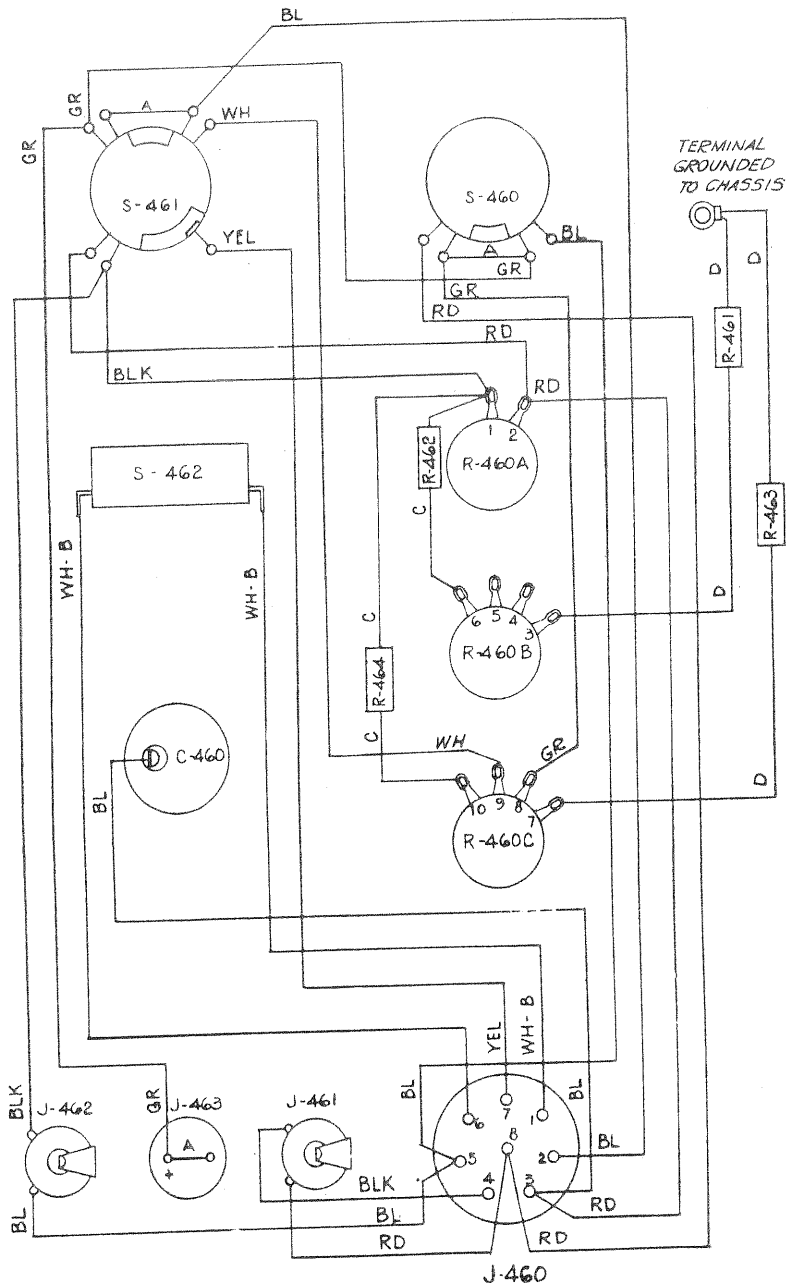


NOTES:

1. WIRES DESIGNATED "A" ARE NO. 20 AWG TINNED COPPER WIRE.
2. WIRES DESIGNATED "B" ARE NO. 18 AWG INSULATED STRANDED WIRE.
3. WIRES DESIGNATED "C" ARE IN CABLE.
4. ALL OTHER WIRES ARE NO. 20 AWG INSULATED SOLID WIRE.
5. ALL CONNECTIONS SHALL BE MECHANICALLY ANCHORED AND SOLDERED.
6. WIRES CONNECTED TO S-402 SHALL HAVE A LOOP AT THE SOLDERED CONNECTION OR SUFFICIENT SLACK TO PREVENT BREAKAGE DUE TO VIBRATION. THIS IS NOT NECESSARY ON SHORT STRAP WIRES WHERE NO MOVEMENT BETWEEN TERMINALS IS POSSIBLE.
7. ◇ INDICATES FORMED WIRES.

Figure 75—Control Unit C-30/ARC-5—Wiring Diagram

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NOTES:

1. ALL WIRES MARKED A ARE 20AWG BARE TINNED COPPER WIRE.
2. ALL WIRES MARKED B ARE INSULATED STRANDED COPPER WIRE.
3. ALL WIRES MARKED C ARE FURNISHED WITH APPARATUS.
4. ALL WIRES MARKED D ARE FURNISHED WITH APPARATUS & COVERED WITH VARNISHED TUBING.
5. ALL OTHER WIRES ARE 22 INSULATED SOLID COPPER WIRE.
6. ALL CONNECTIONS SHALL BE MECHANICALLY ANCHORED AND SOLDERED.
7. BIND LEADS IN GROUPS WHERE REQUIRED FOR MECHANICAL STABILITY.

Figure 76—Control Unit C-42 ARC-5—Wiring Diagram

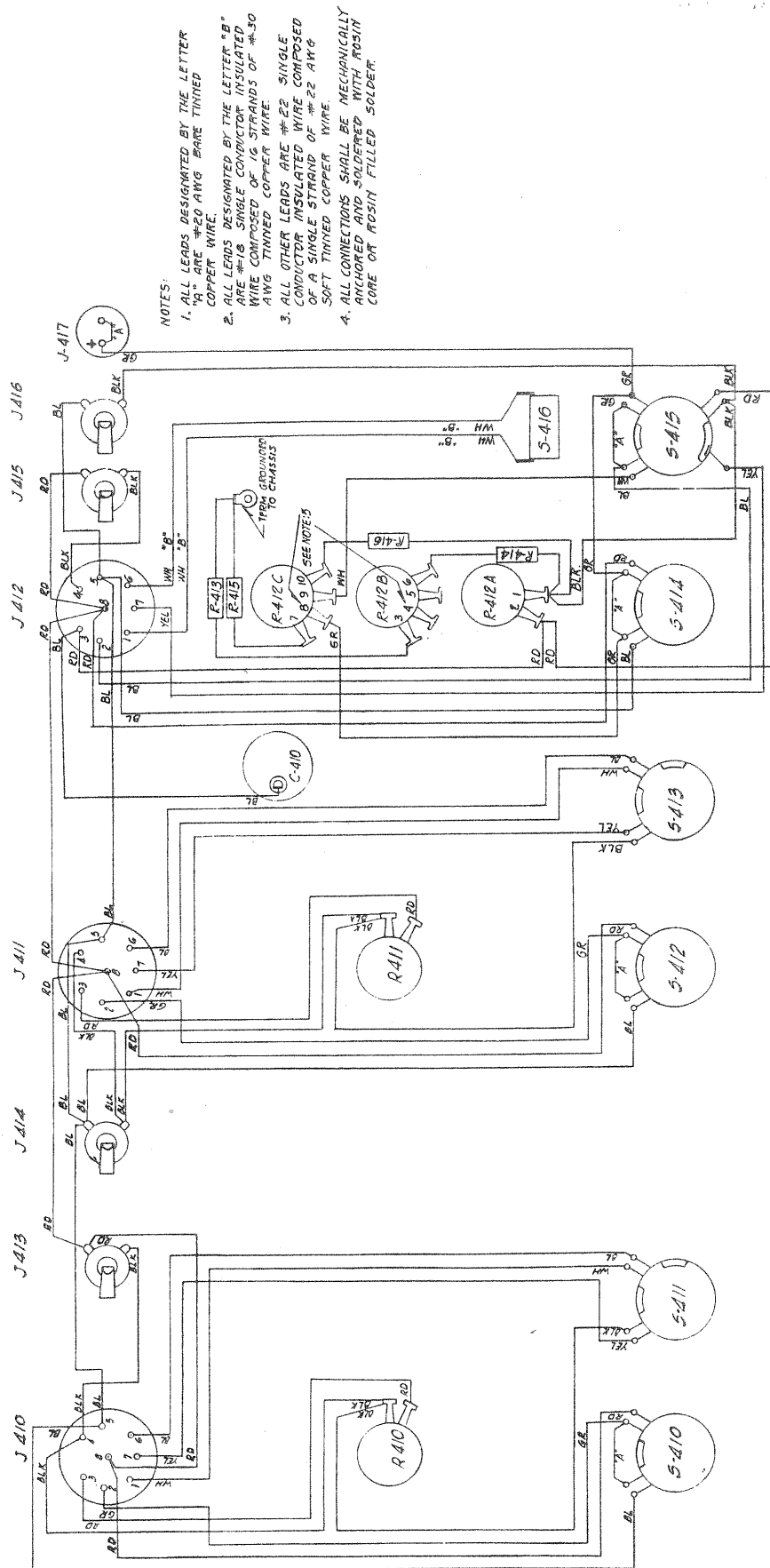
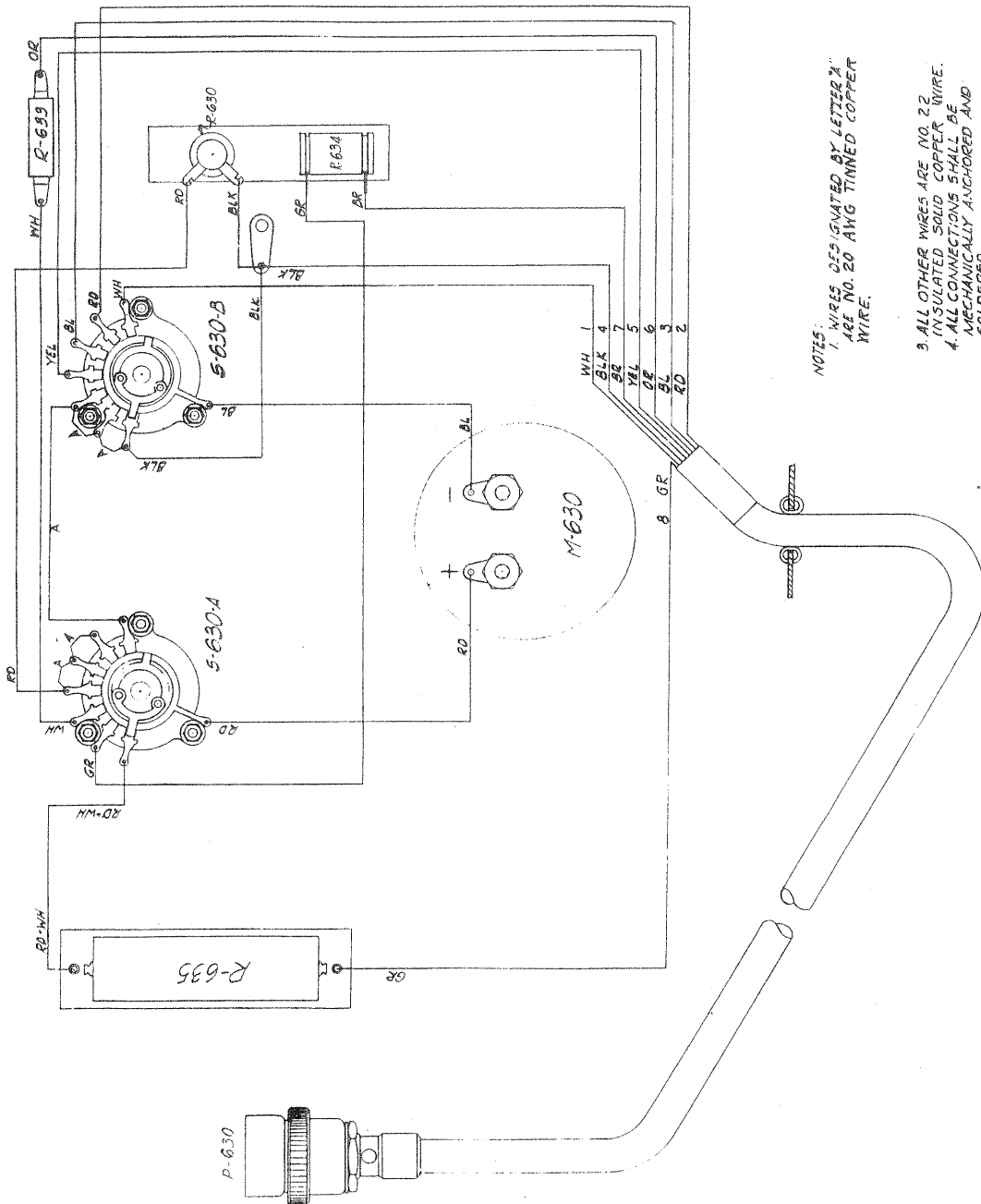


Figure 77—Control Unit C-43/ARC-5—Wiring Diagram



NOTES:
1. WIRES DESIGNATED BY LETTERS
ARE NO. 20 AWG TINNED COPPER
WIRE.

3. ALL OTHER WIRES ARE NO. 22
INSULATED SOLID COPPER WIRE.
4. ALL CONNECTIONS SHALL BE
MECHANICALLY ANCHORED AND
SOLDERED.

Figure 78—Test Unit I-155-A—Wiring Diagram

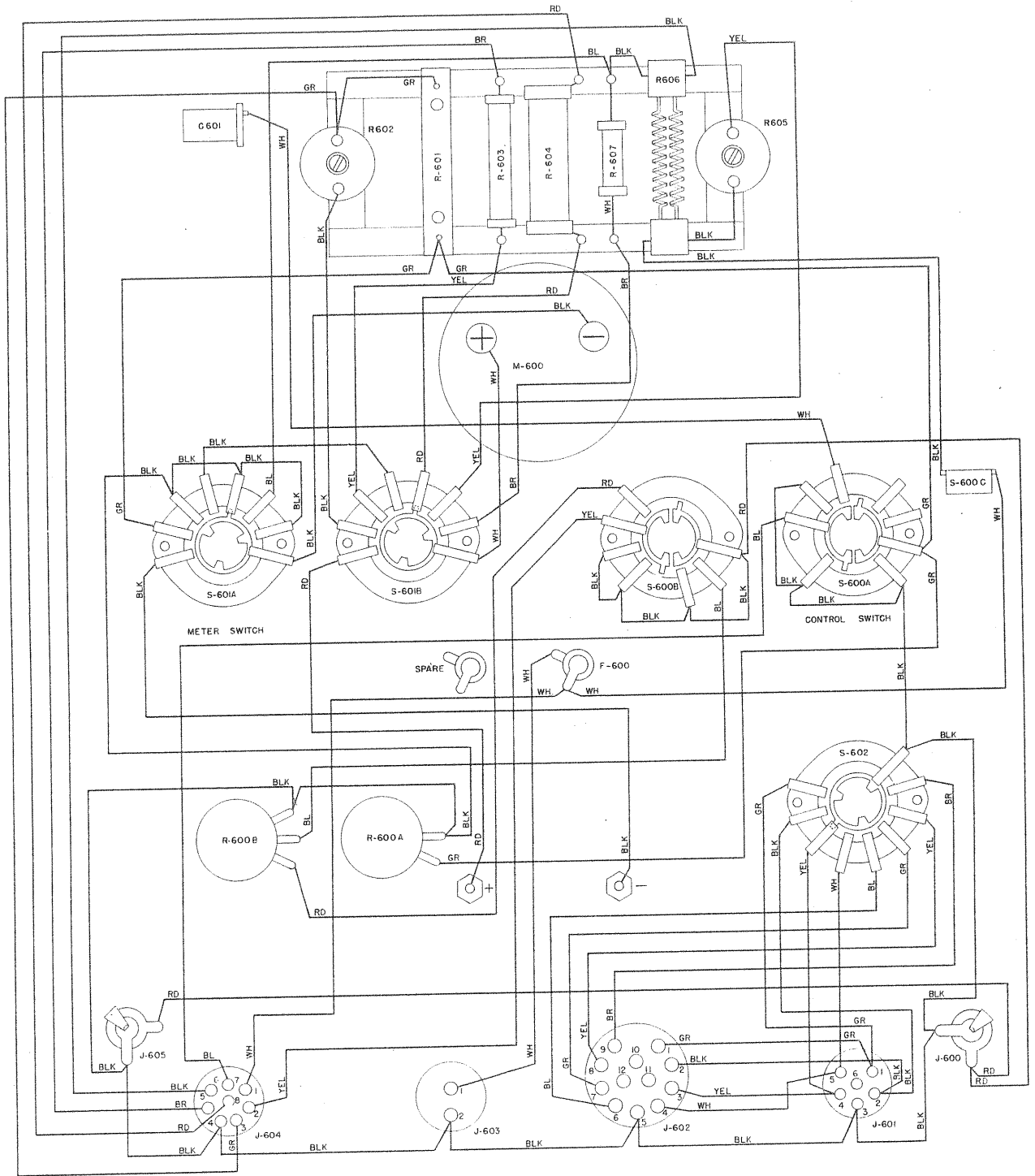



Figure 79—Test Unit I-104-A—Wiring Diagram

NOTES-

1. COLORS SPECIFIED INDICATE TRACERS. THIS TRACER IS ON A WHITE BACKGROUND WHEN WHITE IS SPECIFIED IT INDICATES THE BACKGROUND ONLY.
2. WIRES DESIGNATED BY LETTER "A" ARE NO 20 AWG. BIC WIRE.
3. ALL OTHER WIRES ARE NO 20 AWG INSULATED SOLID WIRE.
4. ALL CONNECTIONS SHALL BE MECHANICALLY ANCHORED AND SOLDERED.
5. WIRES INDICATED BY  ARE FORMED WIRES.

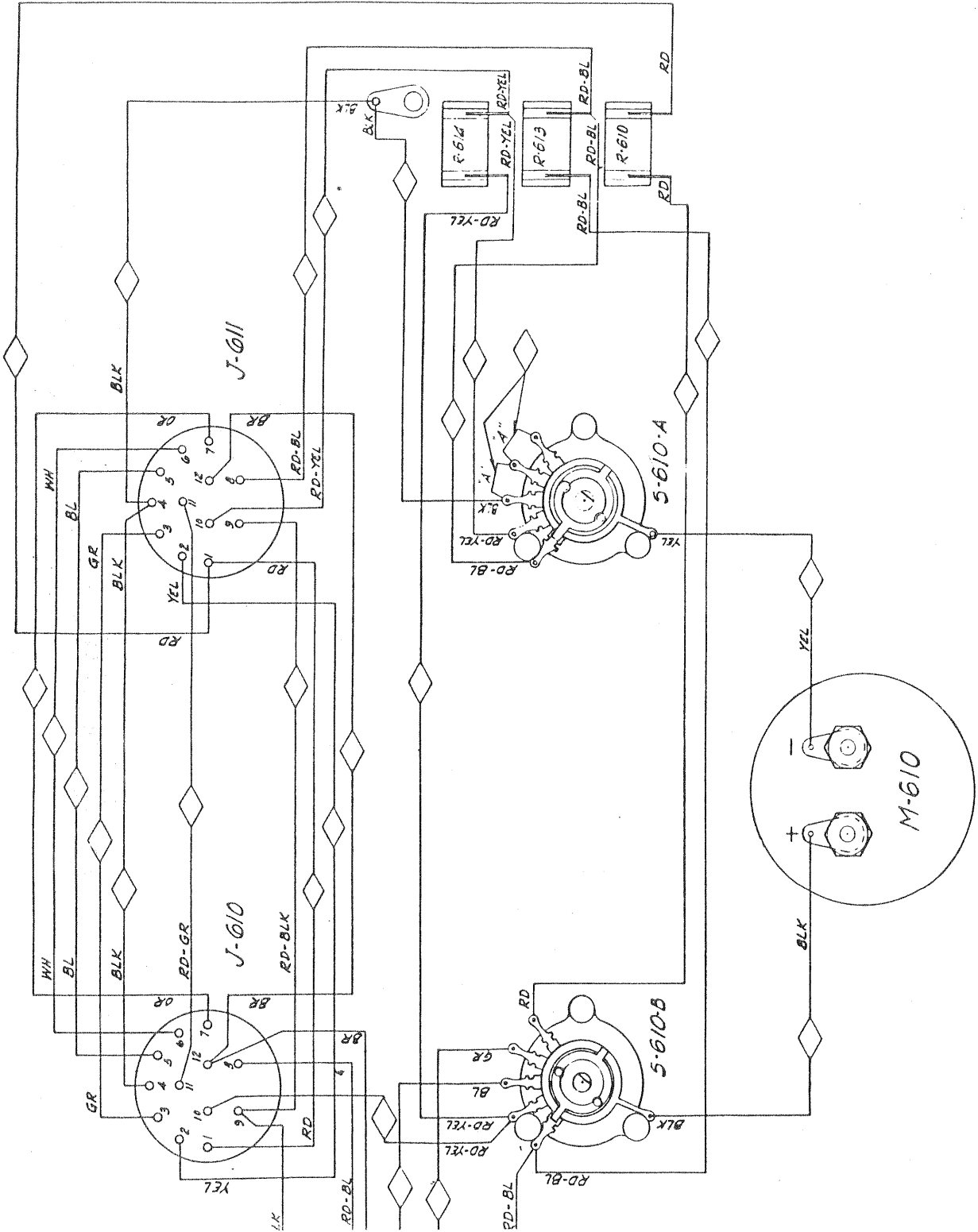
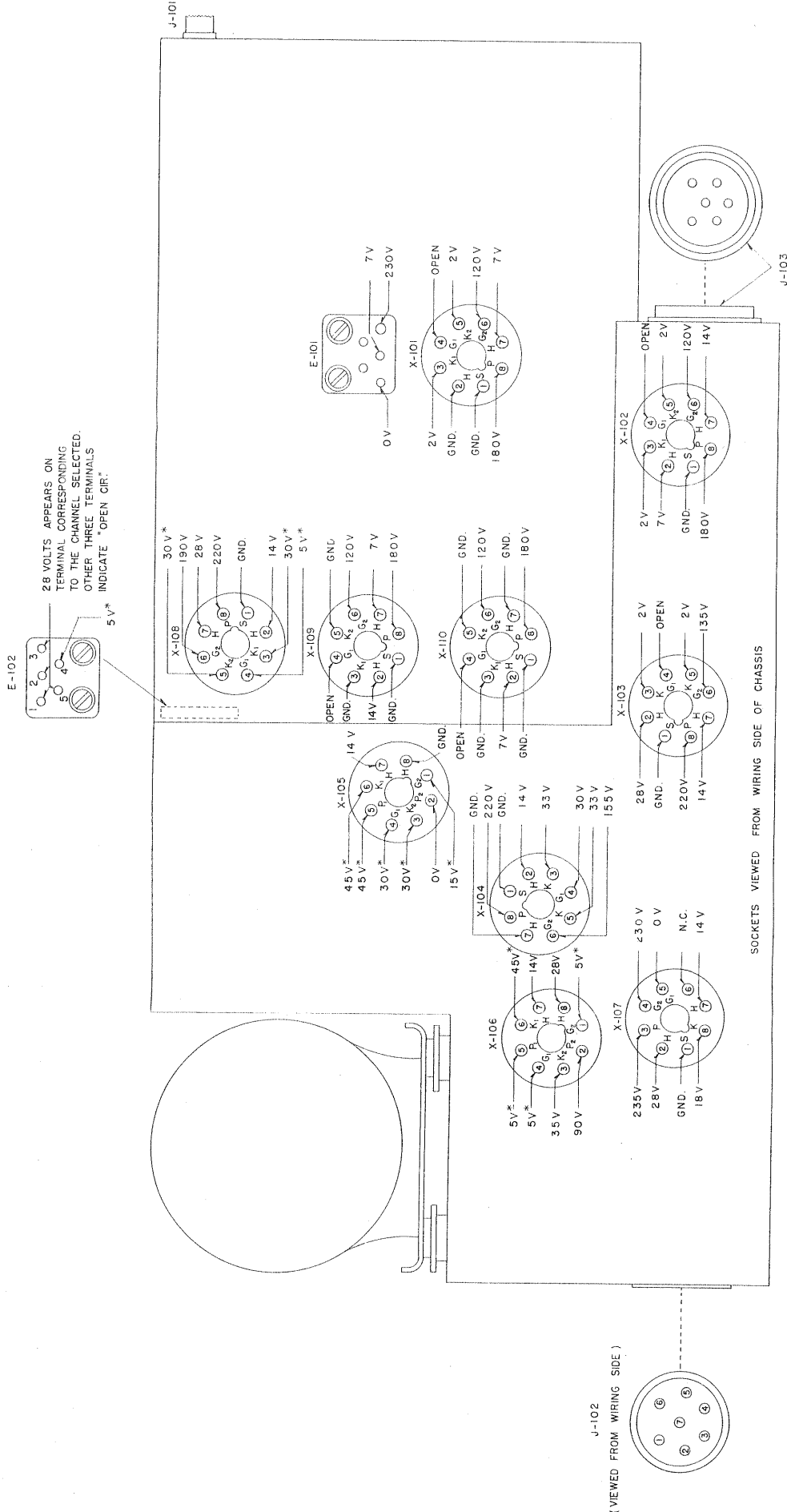


Figure 80—Test Unit TS-58 GRM-1—Wiring Diagram

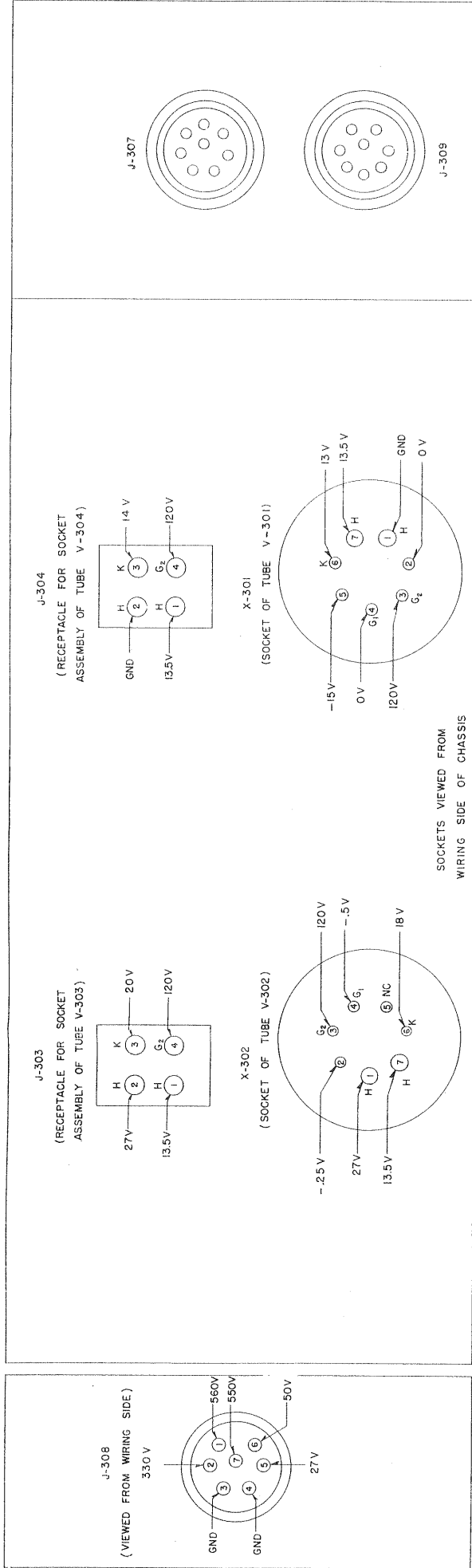


- NOTES: 1. MEASUREMENTS ARE MADE WITH THE SUPPLY VOLTAGE ADJUSTED TO 28 VOLTS.
 2. VOLTAGE MEASUREMENTS MADE WITH A WESTON MODEL 564 TYPE C OR EQUIVALENT 1000 OHM-PER-VOLT METER.
 3. MEASUREMENTS IDENTIFIED THUS* ARE TAKEN ON THE 300 VOLT SCALE.
 4. ABOVE MEASUREMENTS HOLD ONLY WHEN THE RECEIVER IS PROPERLY TUNED ON A CRYSTAL CONTROLLED CHANNEL WITH NO INCOMING SIGNAL AND OPERATED ON "MVC".
5. WHEN OPERATED ON AN UNTUNED CHANNEL THE VOLTAGES AT THE TERMINALS OF X-108, X-109 AND X-110 WILL BE:
6. EXCEPT WHERE OTHERWISE SPECIFIED, ALL MEASUREMENTS ARE TO CHASSIS GROUND.

Figure 81—VHF Receiver—Voltage Diagram

RADIO TRANSMITTER T-23/ARC-5

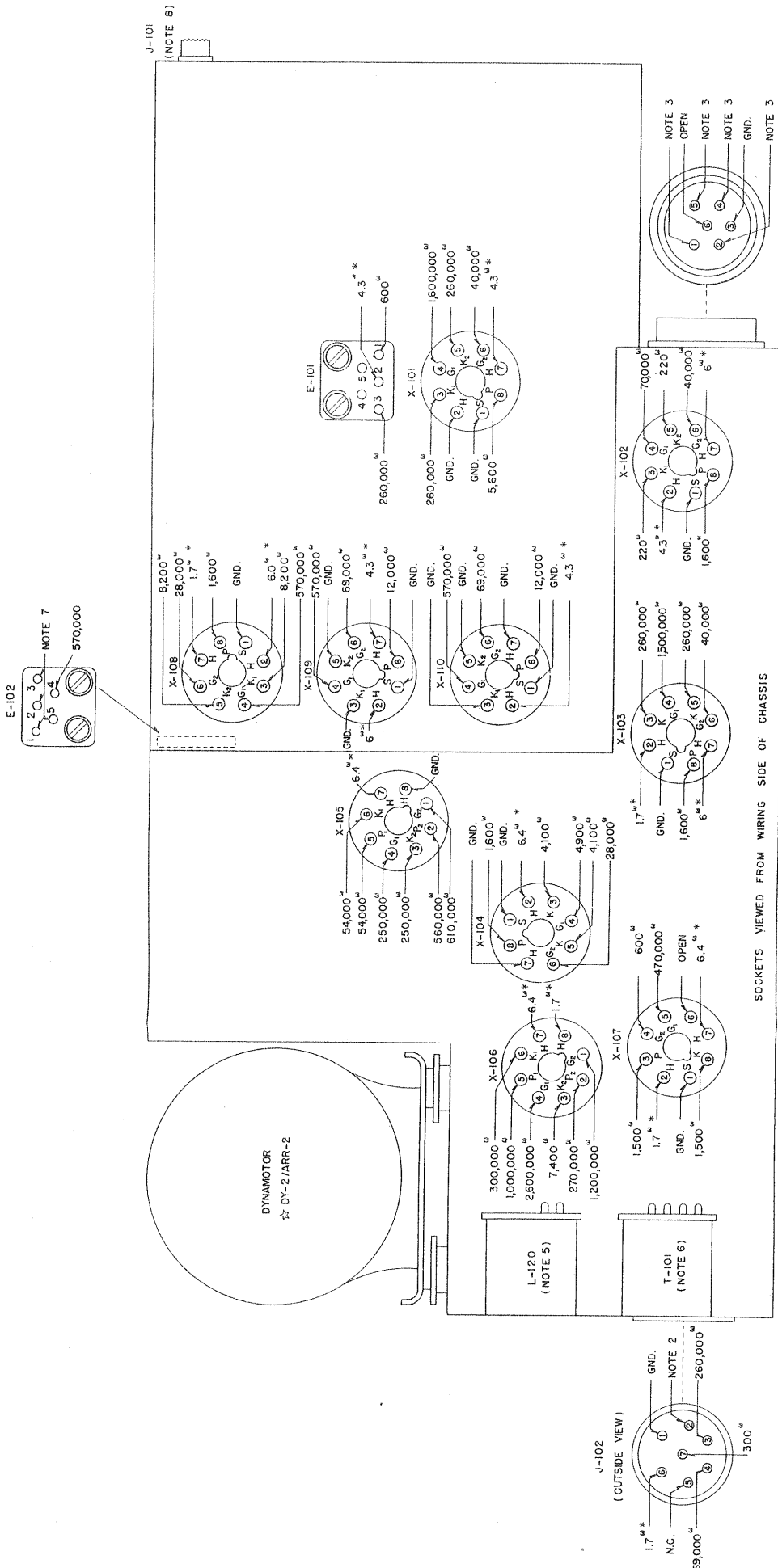
VOLTAGE MEASUREMENTS TERMINAL TO CHASSIS



NOTES

1. THE VOLTAGE MEASUREMENTS ARE MADE WITH A WESTON MODEL 564 TYPE 3C VOLT-OHM-METER OR AN EQUIVALENT 1000 OHM-PER-VOLT VOLTMETER.
2. THE PLATE VOLTAGE, MEASURED AT THE PLATE CAP OR PLATE PRONG SHOULD BE APPROXIMATELY 550 VOLTS.
3. THE INPUT VOLTAGE SHOULD BE ADJUSTED FOR 28 VOLTS AS MEASURED AT THE BATTERY.
4. EXCEPT WHERE OTHERWISE SPECIFIED, ALL MEASUREMENTS ARE TO CHASSIS GROUND.

Figure 82—VHF Transmitter—Voltage Diagram



SOCKETS VIEWED FROM WIRING SIDE OF CHASSIS

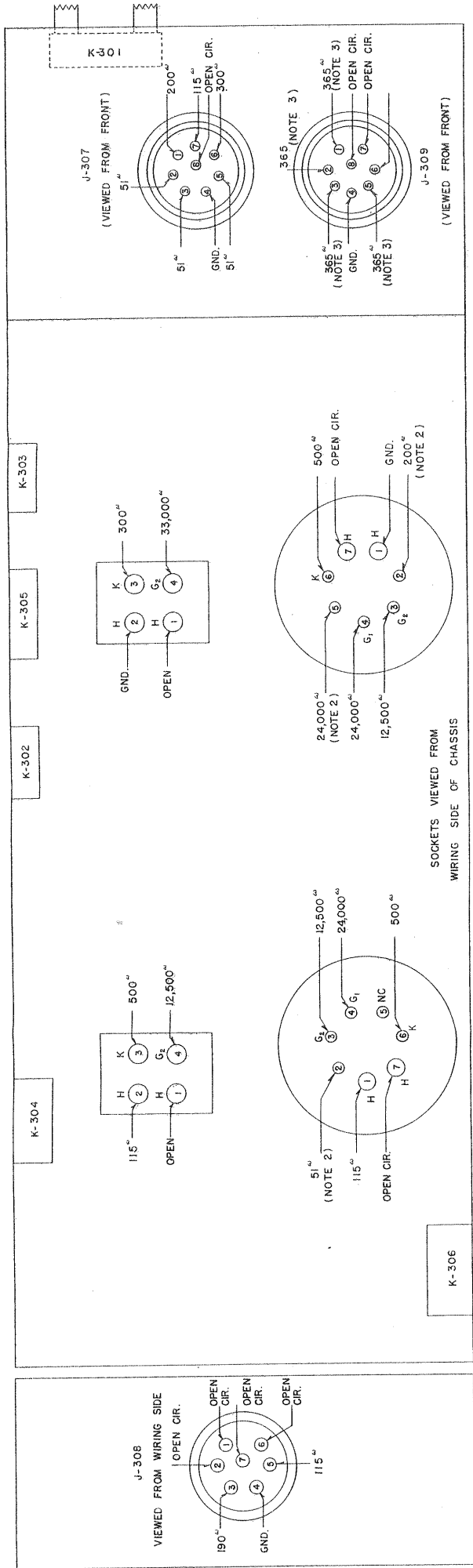
NOTES:

- MEASUREMENTS IDENTIFIED THUS * ARE APPROXIMATE AND ARE THE VALUES OBTAINED WHEN THE OHMMETER LEAD IS FIRST APPLIED TO THE TERMINAL.
- TERMINAL 2 OF RECEPTACLE J-102 INDICATES 300 OHMS WHEN THE "HI" CONNECTION ON T-101 (FOR 8000 OHM PHONES) IS USED AND 100 OHMS WHEN THE "LO" CONNECTION (FOR 600 OHM PHONES) IS USED.
- THE TERMINAL OF J-103 CORRESPONDING TO THE CHANNEL WHICH IS LATCHED WILL INDICATE "OPEN CIRCUIT". THE OTHER THREE TERMINALS WILL INDICATE 24* OHMS.
- RESISTANCE FROM POSITIVE BRUSH OF B-101 TO CHASSIS IS 6 OHMS.
- RESISTANCE FROM TERMINALS 1 TO 2 OF I-120 IS 300 OHMS.
- RESISTANCE FROM TERMINALS 1 TO 2 OF T-101 IS 1200.
- THE TERMINAL OF E-102 CORRESPONDING TO THE CHANNEL WHICH IS LATCHED WILL INDICATE 5.5* OHMS. THE OTHER THREE TERMINALS WILL INDICATE 300 OHMS
- RESISTANCE FROM CENTER CONDUCTOR OF J-101 TO CHASSIS IS 0 OHMS ON D C TESTS.
- MEASUREMENTS ARE MADE WITH RECEIVER REMOVED FROM THE RACK AND WITH THE DYNAMOTOR AND ALL TUBES IN THEIR CORRECT SOCKETS.
- EXCEPT WHERE OTHERWISE SPECIFIED, ALL MEASUREMENTS ARE TO CHASSIS GROUND.

Figure 83—YHF Receiver—Resistance Diagram

RADIO TRANSMITTER T-23/ARC-5

RESISTANCE MEASUREMENTS TERMINAL TO CHASSIS



NOTES

- RESISTANCE MEASUREMENTS ARE MADE WITH THE TRANSMITTER REMOVED FROM THE RACK, TUBES REMOVED FROM THEIR SOCKETS AND CABLES TO J-307 AND J-309 DISCONNECTED. NO TUBE ELEMENT CONNECTED TO THIS PIN. TERMINAL USED AS A CONNECTING TERMINAL FOR EXTERNAL CIRCUITS. THIS CIRCUIT WILL INDICATE "OPEN CIRCUIT" IF TURRETS ARE IN PROPER POSITION FOR OPERATION ON CORRESPONDING CHANNEL.
- WINDINGS OF RELAYS K-302, K-303, K-305 AND K-306 ARE CONNECTED IN PARALLEL. THE RESISTANCE OF THE WINDINGS IN PARALLEL IS 47 OHMS. THE RESISTANCE OF THE RELAY WINDINGS TAKEN SINGLY IS:

K-301	300 ^Ω
K-304	250 ^Ω
K-305	300 ^Ω
K-306	90 ^Ω
- EXCEPT WHERE OTHERWISE SPECIFIED, ALL MEASUREMENTS ARE TO CHASSIS GROUND.

Figure 84—VHF Transmitter—Resistance Diagram

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