

section 6

parts list

ITEM	DESCRIPTION	COLLINS PART NUMBER
AT101	ATTENUATOR, variable: ladder network, 3000 ohms input, 1500 ohm output, 2 db each step, 30 steps	378-0366-00
AT102	Same as AT101	378-0366-00
AT103	Same as AT101	378-0366-00
AT104	Same as AT101	378-0366-00
AT105	Same as AT101	378-0366-00
BT101	4.5 V portable	015-0519-00
BT102	22.5 V portable	015-0520-00
BT103	Same as BT102	015-0520-00
C101	CAPACITOR: aluminum electrolytic, 50 uf -15% +100%; 10 vdcw, aluminum case	183-1157-00
C102	CAPACITOR: aluminum electrolytic, 250 uf -15% +100%; 10 vdcw, aluminum	183-1207-00
C103	CAPACITOR: aluminum electrolytic, 50 uf -15% +100%; 12 vdcw, aluminum case	183-1159-00
C104	Same as C101	183-1157-00
C105	Same as C102	183-1207-00
C106	Same as C103	183-1159-00
C107	Same as C101	183-1157-00
C108	Same as C102	183-1207-00
C109	Same as C103	183-1159-00
C110	Same as C101	183-1157-00
C111	Same as C102	183-1207-00
C112	Same as C103	183-1159-00
C113	Same as C101	183-1157-00
C114	NOT USED	
C115	Same as C102	183-1207-00
C116	CAPACITOR: aluminum electrolytic, 50 uf -15% +100%; 25 vdcw, aluminum case	183-1158-00
C117	Same as C102	183-1207-00
C118	Same as C116	183-1158-00
C119	Same as C101	183-1157-00
C120	Same as C102	183-1207-00
C121	CAPACITOR: aluminum electrolytic, 115 uf -15% +100%; 25 vdcw aluminum case	183-1160-00
C122	Same as C121	183-1160-00
C123	CAPACITOR: aluminum electrolytic, 500 uf -15% +100%	183-1208-00
C124	Same as C123	183-1208-00
C125	CAPACITOR: paper, 0.47 uf, ±20%; 100 vdcw	931-2507-00
C126	Same as C125	931-2507-00
C127	Same as C123	183-1208-00
C128	CAPACITOR: fixed electrolytic 250 uf -15% +100%; 10 vdcw	183-1207-00
C129	CAPACITOR: Same as C116	183-1158-00
C130	CAPACITOR: paper .022 uf ±20%, 300 vdcw	931-4524-00
CR101	CRYSTAL UNIT, rectifying: germanium crystal, terminal mtd	353-0029-00
CR102	Same as CR101	353-0029-00
CR103	SEMICONDUCTOR DEVICE DIODE: germanium, type 1N48; peak inv. volts, 85 v, peak rect. current 150 ma; 0.225 in. dia by 2-3/4 in. lg approx overall	353-0027-00
E101	POST, BINDING: black phenolic cap, plain finish, with screw action, not knurled, removable cap	372-1061-00
E102	Same as E101	372-1061-00
E103	Same as E101	372-1061-00
E104	Same as E101	372-1061-00
E105	Same as E101	372-1061-00
E106	Same as E101	372-1061-00
E107	Same as E101	372-1061-00
E108	Same as E101	372-1061-00
E109	Same as E101	372-1061-00
E110	INSULATOR, standoff: brass terminal, molded melamine body	306-0234-00
E111	Same as E110	306-0234-00
E112	Same as E110	306-0234-00

ITEM	DESCRIPTION	COLLINS PART NUMBER
E113	Same as E110	306-0234-00
E114	Same as E110	306-0234-00
E115	Same as E110	306-0234-00
E116	Same as E110	306-0234-00
E117	Same as E110	306-0234-00
E118	Same as E110	306-0234-00
E119	Same as E110	306-0234-00
E120	Same as E110	306-0234-00
E121	Same as E110	306-0234-00
E122	Same as E110	306-0234-00
F101	FUSE, cartridge: 1/16 amp, slow-blow glass body, ferrule terminal	264-4220-00
I101	LAMP: 2 V 0.06 amp; miniature bayonet base	262-0043-00
I102	LAMP: Same as I101	262-0043-00
I103	Light, pilot: Neon, 100,060 ohms limiting resistor built-in	262-0090-00
J101	CONNECTOR, receptacle: 3 contacts, plastic	370-2018-00
J102	Same as J101	370-2018-00
J103	Same as J101	370-2018-00
J104	Same as J101	370-2018-00
J105	JACK, telephone: for 2-conductor plug	358-1080-00
J106	Same as J105	358-1080-00
J107	CONNECTOR, receptacle: 2 rectangular male nonpolarized contacts, straight	368-3700-00
J108	Same as J105	358-1080-00
K101	RELAY, armature: contact arrangement 2C, contact rating 3 amp, 150 w a-c, noninductive	970-1822-00
L101	REACTOR, audio: 0.8 hv inductance, 75 ohms ±15%, d-c resistance 500 v rms test, steel case, terminal mtd	668-0196-00
L102	REACTOR: filter choke, 2.0 hy inductance, 35 ma d-c current, 80 to 105 ohm d-c resistance at 25°C, 500 v rms test, open frame	668-0197-00
L103	COIL, RADIO FREQUENCY: universal wound 3 ti, 72 t each section, #36 AWG wire, 220 uh, 100 ma	240-0198-00
M101	METER, audio: interior illumination, two 2.0 v 0.06 amp lamps in series, scale -20 to 0 thru +3, figures -20 thru 0 black, +1 thru +3 red	456-0017-00
P101	CONNECTOR, plug: 2 plugs accommodated, 2 contacts, male	372-1578-00
Q101	TRANSISTOR: germanium: 0.250 in. lg, 0.360 in. w; 2N422	352-0079-00
Q102	Same as Q101	352-0079-00
Q103	Same as Q101	352-0079-00
Q104	Same as Q101	352-0079-00
Q105	Same as Q101	352-0079-00
Q106	Same as Q101	352-0079-00
Q107	TRANSISTOR: germanium: 0.250 in. lg, 0.360 in. w; wire lead; 2N465	352-0080-00
Q108	TRANSISTOR: germanium: 0.282 in. lg, 0.440 in. w; wire lead; 2N44	352-0004-00
Q109	Same as Q108	352-0004-00
Q110	Same as Q101	352-0079-00
R101	RESISTOR: comp, 0.10 megohm ±10%; 1/2 w	745-1436-00
R102	RESISTOR: comp, 1000 ohms, ±10%; 1/2 w	745-1352-00
R103	RESISTOR: comp, 100 ohms, ±10%, 1/2 w	745-1310-00
R104	RESISTOR: film, 7500 ohms, ±1%; 1/2 w	705-2152-00
R105	RESISTOR: film, 3570 ohms, ±1%; 1/2 w	705-2144-00
R106	RESISTOR: film, 1100 ohms, ±1%; 1/2 w	705-2132-00
R107	Same as R101	745-1436-00
R108	Same as R102	745-1352-00
R109	Same as R103	745-1310-00
R110	Same as R104	705-2152-00
R111	Same as R105	705-2144-00
R112	Same as R106	705-2132-00
R113	Same as R101	745-1436-00
R114	Same as R102	745-1352-00
R115	Same as R103	745-1310-00

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ITEM	DESCRIPTION	COLLINS PART NUMBER
R116	Same as R104	705-2152-00
R117	Same as R105	705-2144-00
R118	Same as R106	705-2132-00
R119	Same as R101	745-1436-00
R120	Same as R102	745-1352-00
R121	Same as R103	745-1310-00
R122	Same as R104	705-2152-00
R123	Same as R105	705-2144-00
R124	Same as R106	705-2132-00
R125	RESISTOR: comp, 10,000 ohms $\pm 10\%$; 1/2 w	745-1394-00
R126	RESISTOR: comp, 47 ohms $\pm 10\%$; 1/2 w	745-1296-00
R127	Same as R104	705-2152-00
R128	Same as R104	705-2152-00
R129	Same as R125	745-1394-00
R130	RESISTOR: comp, 33,000 ohms, $\pm 10\%$; 1/2 w	745-1415-00
R131	Same as R126	745-1296-00
R132	Same as R104	705-2152-00
R133	Same as R125	745-1394-00
R134	RESISTOR: comp, 4700 ohms, $\pm 10\%$; 1/2 w	745-1380-00
R135	RESISTOR: comp, 1000 ohms, $\pm 5\%$; 1/2 w	745-1351-00
R136	RESISTOR: comp, 150 ohms, $\pm 10\%$; 1/2 w	745-1317-00
R137	RESISTOR: comp, 47,000 ohms, $\pm 10\%$; 1/2 w	745-1422-00
R138	RESISTOR: comp, 1.0 megohm, $\pm 20\%$; 1/2 w	745-1279-00
R139	Same as R139	745-1422-00
R140	RESISTOR: comp, 120 ohms, $\pm 10\%$; 1/2 w	745-1314-00
R141	Same as R134	745-1380-00
R142	RESISTOR: comp, 2200 ohms, $\pm 10\%$; 1/2 w	745-1366-00
R143	Same as R142	745-1366-00
R144	RESISTOR: WW, 75 ohms, $\pm 10\%$; 2 w	750-8166-00
R145	RESISTOR: comp, 0.13 megohm, $\pm 5\%$; 1/2 w	745-1441-00
R146	RESISTOR: comp, 0.22 megohm, $\pm 10\%$; 1/2 w	745-1450-00
R147	Same as R101	745-1436-00
R148	RESISTOR: comp, 0.18 megohm, $\pm 10\%$; 1/2 w	745-1447-00
R149	RESISTOR: comp, 3600 ohms, $\pm 5\%$; 1/2 w	745-1375-00
R150	NOT USED	
R151	NOT USED	
R152	RESISTOR: comp, 3900 ohms, $\pm 5\%$; 1/2 w	745-1376-00
R153	RESISTOR: comp, 16,000 ohms, $\pm 5\%$; 1/2 w	745-1403-00
R154	RESISTOR: comp, 430 ohms, $\pm 5\%$; 1/2 w	745-1336-00
R155	RESISTOR: comp, 500 ohms, $\pm 20\%$; 1 w	380-2031-00
R156	RESISTOR: comp, 560 ohms, $\pm 10\%$; 1/2 w	745-1342-00
R157	Same as R156	745-1342-00
R158	Same as R126	745-1296-00
R159	Same as R126	745-1296-00
R160	RESISTOR: comp, 1800 ohms, $\pm 10\%$; 1/2 w	745-1363-00
R161	Same as R126	745-1296-00
R162	Same as R126	745-1296-00
R163	RESISTOR: comp, 1200 ohms, $\pm 5\%$; 1/2 w	745-1355-00
R164	RESISTOR, variable: comp, 2,500 ohms, $\pm 20\%$; 2 w	380-0645-00
R165	RESISTOR: comp, 180 ohms, $\pm 10\%$; 1 w	745-3321-00
R166	RESISTOR: comp, 18,000 ohms, $\pm 5\%$; 1/2 w	745-1404-00
R167	RESISTOR: comp, 8200 ohms, $\pm 5\%$; 1/2 w	745-1390-00

ITEM	DESCRIPTION	COLLINS PART NUMBER
R168	RESISTOR: comp, 270 ohms, $\pm 10\%$; 1/2 w	745-1328-00
R169	RESISTOR: comp, 330 ohms, $\pm 10\%$; 1/2 w	745-1331-00
S101	SWITCH, ROTARY: 1 section, 2 position 3 circuit, 3 pole, phenolic	259-0737-00
S102	SWITCH, ROTARY: 3 section, 4 position 4 circuit, 7 pole, phenolic	259-0858-00
S103	SWITCH, TOGGLE: 3 pole, single throw	260-2274-00
S104	SWITCH, ROTARY: 2 section, 3 position 4 circuit, 4 pole, phenolic	259-0735-00
S105	SWITCH, INTERLOCK: spdt; 10 amp, 125 or 250 v a-c, phenolic and metal body; momentary action w/6-32 NC-2 tapped hole 5/16 in. deep in end of shaft	266-0013-00
S106	SWITCH, part of R144: spst, actuated to the ON position at the start of clockwise rotation	750-8166-00
T101	TRANSFORMER, AUDIO: input type; pri 5000 ohms, sec. 500 ohm over-all impedance, C T, 5 ma primary, 5 ma secondary, 500 rms test voltage	667-0194-00
T102	TRANSFORMER, AUDIO: output type, pri no. 1, 12,000 ohm over-all impedance CT, sec. no. 1, 300 ohms, sec. no. 2, 300 ohms, sec. no. 3, 500 ohms; 500 rms test voltage, pri 20 ma, sec. 0	667-0195-00
T103	TRANSFORMER, POWER: primary 115v each section or 230 v over-all, sec. no. 1, 65 V $\pm 3\%$, CT, 0.065 amp, pri no. 2, 4 V $\pm 3\%$, 0.060 amp, 1000 rms test voltage, pri 500 rms test voltage each	662-0193-00
TB101	OSCILLATOR, subassembly: consists of 10 resistors, 5 capacitors, 1 socket transistor, 1 reactor mtg on board	541-3231-003
TB102	AMPLIFIER, subassembly: consists of 7 capacitors, 15 resistors, 5 socket transistors mtd on a board	541-3234-003
TB103	PREAMPLIFIER, subassembly: consists of 12 capacitors, 16 resistors, 4 socket transis- tors mtd on a board	541-3237-003
W101	CABLE ASSY, POWER ELECTRICAL: 3 con- ductors, #18 AWG rubber insulation, 125 v a-c, 8 ft lg	426-54-26-00
W102	ADAPTER, POWER: 3 wire to 2 wire	386-0110-00
XF	HOLDER, fuse: extractor post type, for single 3AG cartridge fuse; black bakelite	265-1019-00
XQ101	SOCKET, tube: snap in, 3 contact transistor	220-1248-00
XQ102	Same as XQ101	220-1248-00
XQ103	Same as XQ101	220-1248-00
XQ104	Same as XQ101	220-1248-00
XQ105	Same as XQ101	220-1248-00
XQ106	Same as XQ101	220-1248-00
XQ107	Same as XQ101	220-1248-00
XQ108	Same as XQ101	220-1248-00
XQ109	Same as XQ101	220-1248-00
XQ110	Same as XQ101	220-1248-00

section 7

illustrations

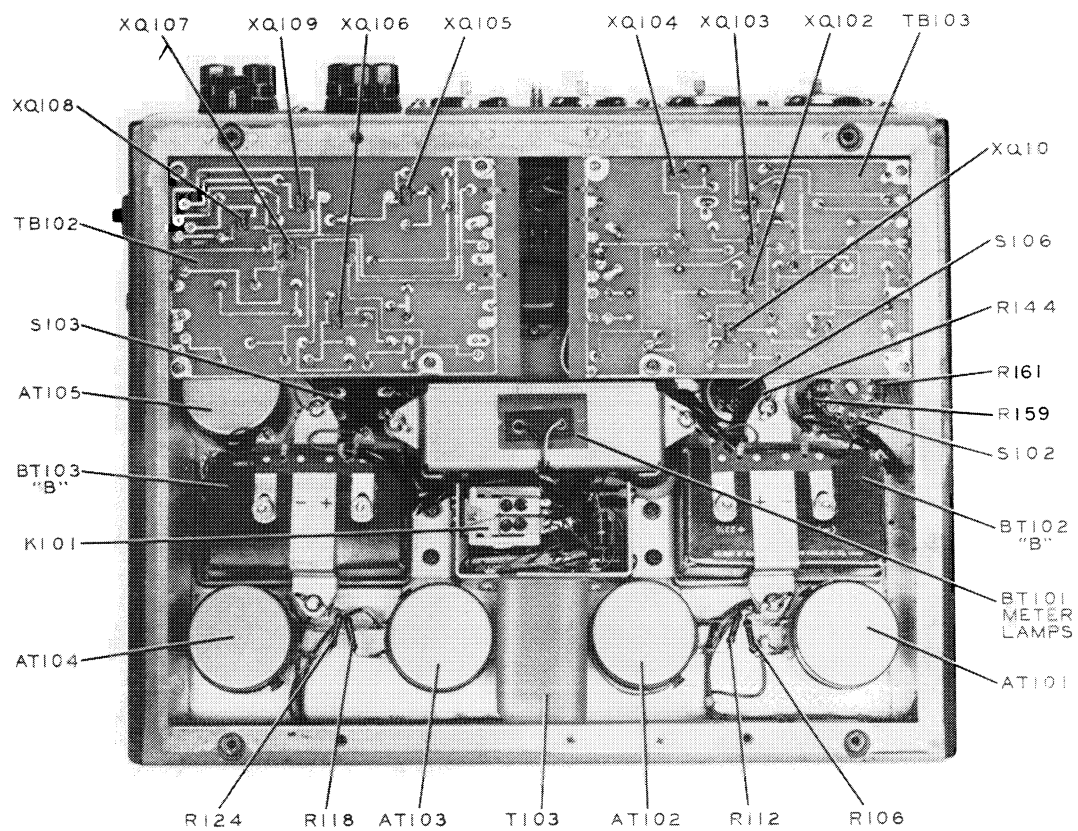


Figure 7-1. 212Z-1 Remote Amplifier, Bottom View

SECTION 7
Illustrations

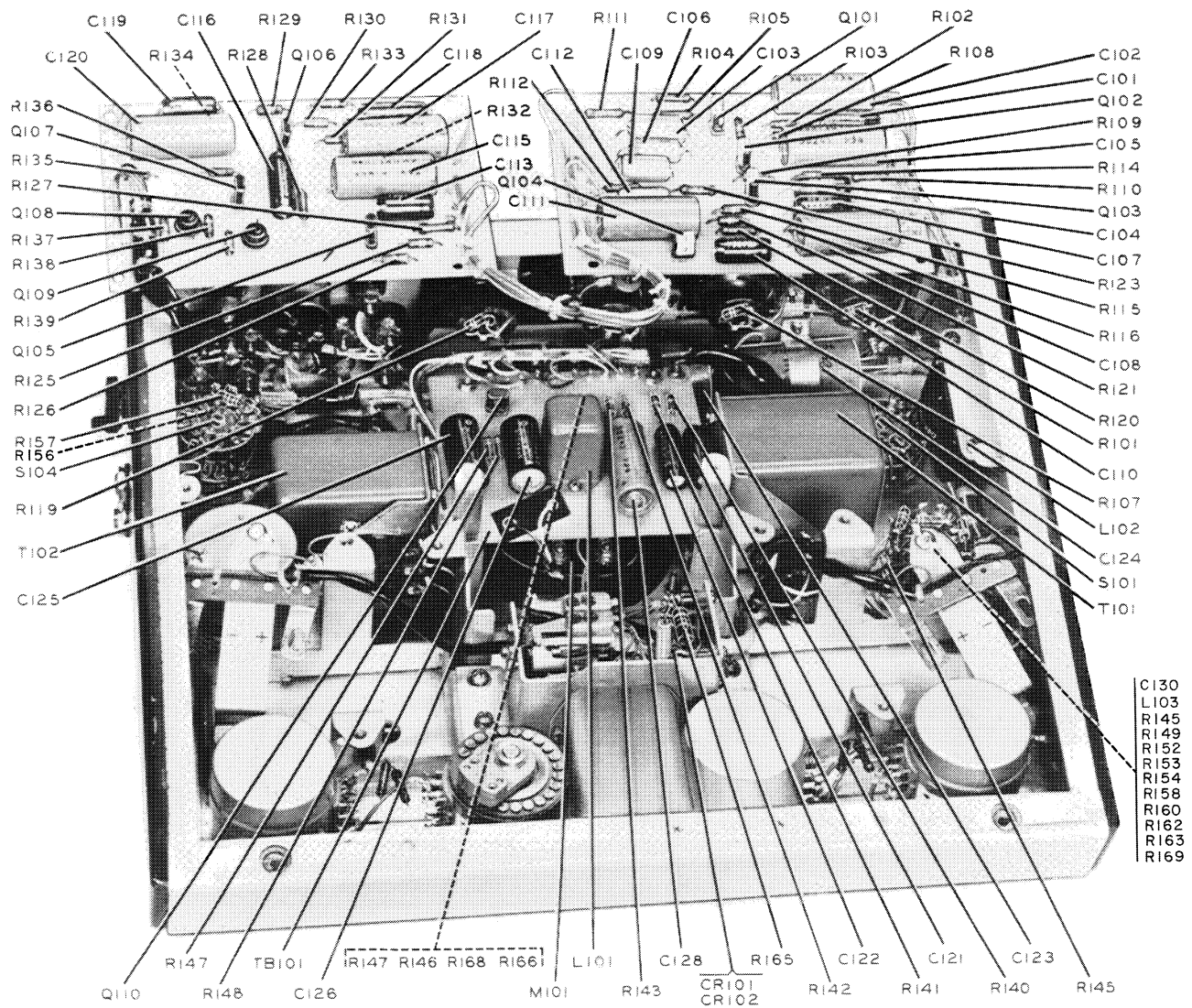


Figure 7-2. 212Z-1 Remote Amplifier, Bottom Open, Boards Removed

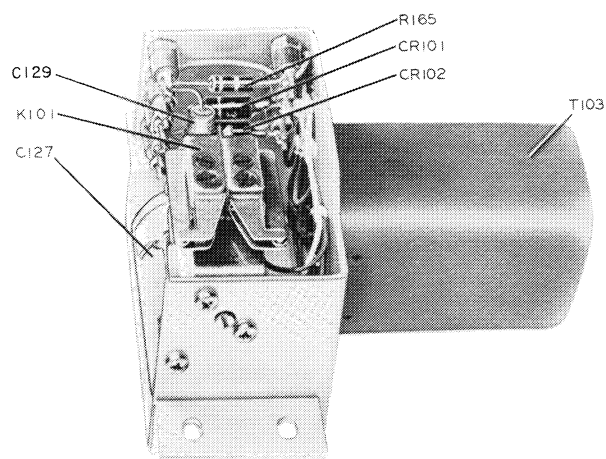


Figure 7-3. Power Supply, Top Open View

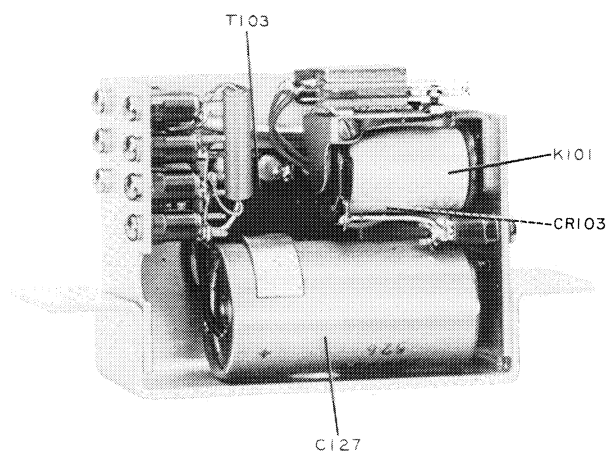


Figure 7-4. Power Supply, Side Open View

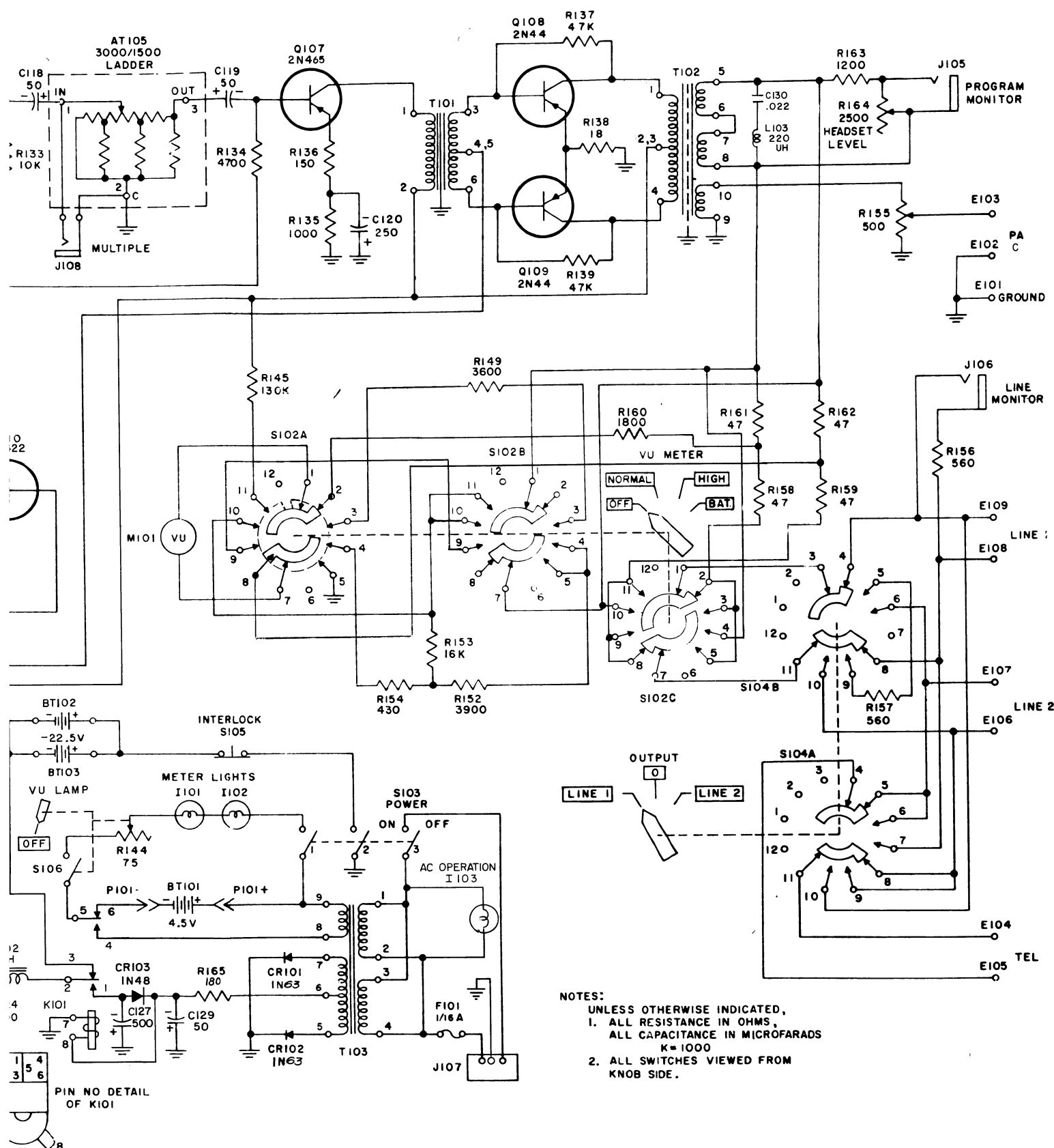


Figure 7-5. 212Z-1 Remote Amplifier, Complete Schematic

