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DESCRIPTION

The 30-50 MHz PA assembly for Custom MVP uses two RF power transistors to provide a power output of 25 Watts. The output power is adjustable using power adjust control R19 over a range of 8 to 25 Watts. A single transistor is used in the power adjust circuit.

Supply voltage (A+) for the PA is connected from J1 on the back of the radio through FL210-C5 on the side of the radio. C201, C202 and L15 prevent RF from getting on the power leads. Diode CR201 will cause the main fuse assembly to blow if the polarity of the power leads is reversed, providing reverse voltage protection for the radio.

Centralized metering jack J5 is provided for use with GE Test Set Model 4EX3A11 or Test Kit 4EX8K12. The Test Set meters the Ampl-1 drive (exciter output), power adjust voltage, PA current and voltage.

CIRCUIT ANALYSIS

RF AMPLIFIERS

The exciter output is coupled through cable W201 to PA input jack J1. The RF is coupled through DC blocking capacitor C1 and an impedance matching network to the base of Class C amplifier Q201. The network matches the 50-ohm input to the base of Q201, and consists of C3, C4, C5, L1 and L2. R3, R4, R5 and R6 lower the gain of the amplifier stage. L3 provides the DC return to the base of Q201.

Part of the RF input is rectified by CR1 and applied to voltage divider R1 and R2. This voltage is used to meter the AMPL-1 drive at J5-4.

Collector voltage to Q201 (Ampl-1) is controlled by the power adjust circuit, Q215 and is applied through collector stabilizing network (L5 and R7) and collector feed network L4 and C8. The collector voltage of Q201 is metered through R18 and J5-3.

Following Q201 is a matching network (C6, C7, C11, C212, C213, L6 and L27) to a resistive pad (R8, R9 and R10). The output of the resistor network is applied to the base of Power Amplifier Q202 through a match-

ing network consisting of C14, C15, C16, L8 and L9. Resistors R11 through R16 lower the gain of Q202 and adjust the impedance levels. L10 provides the DC return to the base of Q202.

Collector voltage to Q202 is coupled through a collector stabilizing network consisting of L12 and R17 and collector feed network L11 and C19. PA voltage is metered from tapped manganin resistor R20 to ground. The reading is taken in position G on the 15 volt scale (4EX3A11) and read as 15 volts full scale. The meter polarity must be reversed.

Collector current for Q202 is metered through tapped manganin resistor R20 at J5-7 (PA CURRENT). The reading is taken on the one-volt scale with the High Sensitivity button pressed, and read as 10 amperes full scale.

Following Q202 is a matching network (C17, C18, C21, C22, C23, L11, L13 and L14) that matches the PA output to the input of the low pass filter through a 50 ohm microstrip W2, cable W202 and a matching 50-ohm microstrip W1 on the input to the low pass filter. The output of the low pass filter is coupled through a third 50-ohm microstrip to antenna relay K1 and then to antenna connector J3. The receiver connection is made at J2.

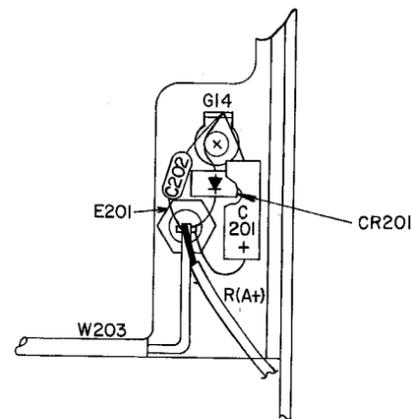
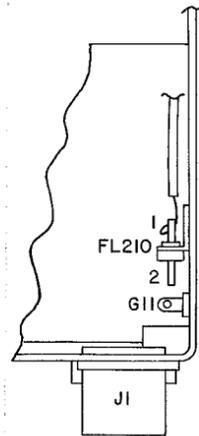
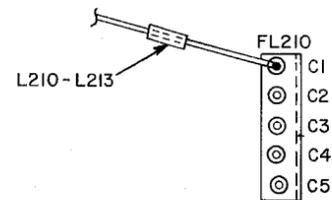
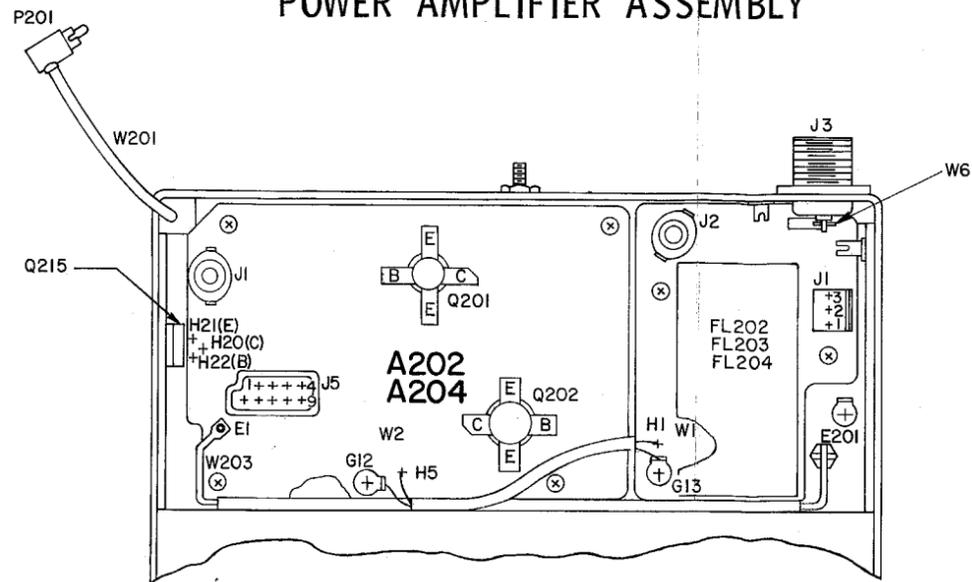
WARNING

The RF Power Transistors used in the transmitter contain Beryllium Oxide, a TOXIC substance. If the ceramic, or other encapsulation is opened, crushed, broken or abraded, the dust may be hazardous if inhaled. Use care in replacing transistors of this type.

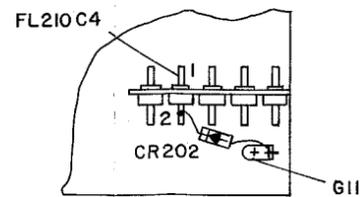
POWER ADJUST CIRCUIT

The power adjust circuit consists of R19 and Q215. R19 controls the base voltage and conduction of Q215. Q215 emitter is connected in series with the collector feed network for Q201 thereby controlling the drive to Power Amplifier Q202 and the output power. R19 is adjusted to provide the desired output power. The collector voltage for Q201 is measured on position C on the 15 volt scale and read as 0-15 volts full scale.

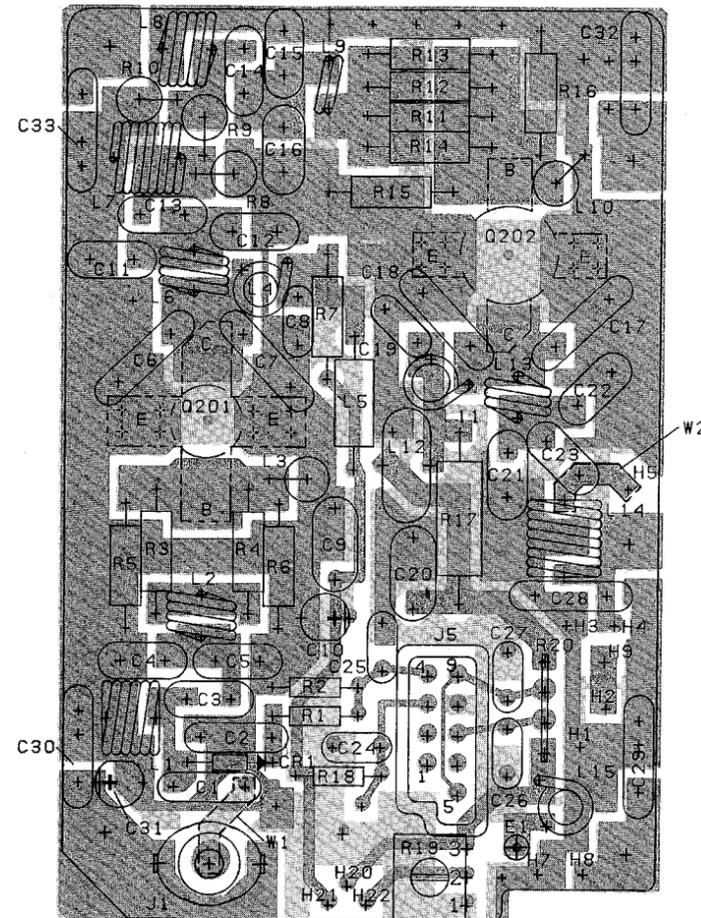
POWER AMPLIFIER ASSEMBLY



(19C327308, Rev. 1)



PA BOARD

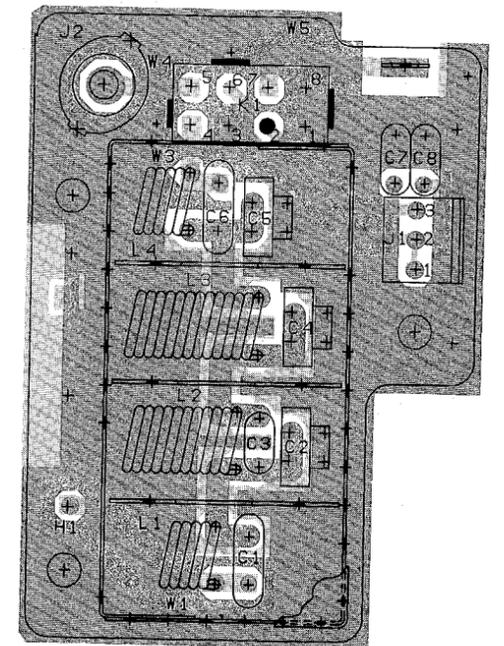


CONNECTION CHART

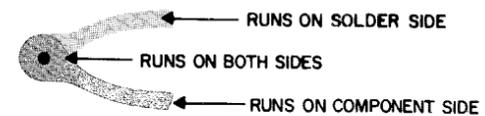
| FROM | TO | WIRE SIZE |
|------|----|-----------|
| H3 | H4 | 08 |
| H7 | H8 | 08 |

(19C327141, Rev. 0)
 (19B227209, Sh. 1, Rev. 1)
 (19B227209, Sh. 2, Rev. 1)

FILTER BOARD

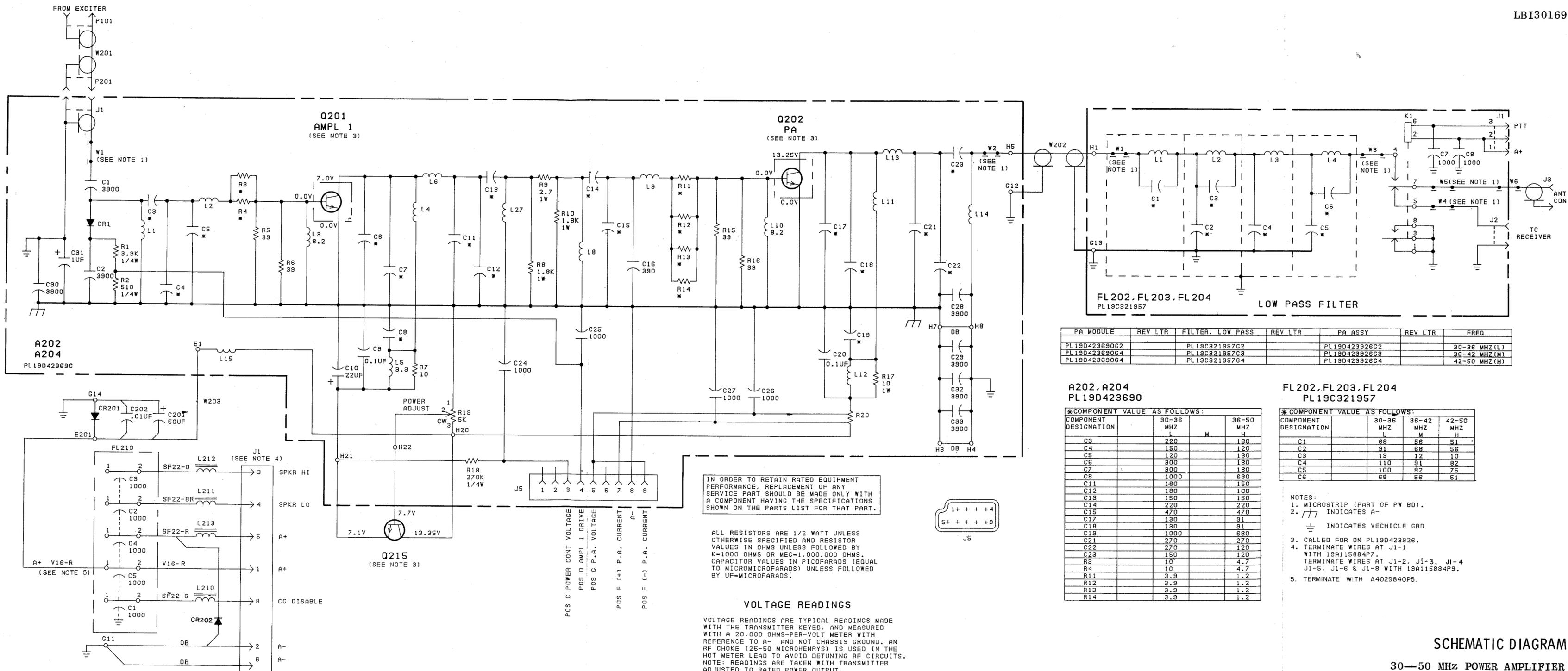


(19C327143, Rev. 1)
 (19B227218, Sh. 1, Rev. 1)
 (19B227218, Sh. 2, Rev. 0)



OUTLINE DIAGRAM

30—50 MHz POWER AMPLIFIER



| PA MODULE | REV LTR | FILTER, LOW PASS | REV LTR | PA ASSY | REV LTR | FREQ |
|----------------|---------|------------------|---------|----------------|---------|---------------|
| PL 19D423690C2 | | PL 19C321957C2 | | PL 19D423926C2 | | 30-36 MHZ (L) |
| PL 19D423690C4 | | PL 19C321957C3 | | PL 19D423926C3 | | 36-42 MHZ (M) |
| PL 19D423690G4 | | PL 19C321957C4 | | PL 19D423926C4 | | 42-50 MHZ (H) |

**A202, A204
PL 19D423690**

*COMPONENT VALUE AS FOLLOWS:

| COMPONENT DESIGNATION | 30-36 MHZ | 36-42 MHZ | 42-50 MHZ |
|-----------------------|-----------|-----------|-----------|
| C3 | 220 | 180 | |
| C4 | 150 | 120 | |
| C5 | 120 | 180 | |
| C6 | 300 | 180 | |
| C7 | 300 | 180 | |
| C8 | 1000 | 680 | |
| C11 | 180 | 150 | |
| C12 | 180 | 100 | |
| C13 | 150 | 150 | |
| C14 | 220 | 220 | |
| C15 | 470 | 470 | |
| C17 | 130 | 91 | |
| C18 | 130 | 91 | |
| C19 | 1000 | 680 | |
| C21 | 270 | 270 | |
| C22 | 270 | 120 | |
| C23 | 150 | 120 | |
| R3 | 10 | 4.7 | |
| R4 | 10 | 4.7 | |
| R11 | 3.9 | 1.2 | |
| R12 | 3.9 | 1.2 | |
| R13 | 3.9 | 1.2 | |
| R14 | 3.9 | 1.2 | |

**FL 202, FL 203, FL 204
PL 19C321957**

*COMPONENT VALUE AS FOLLOWS:

| COMPONENT DESIGNATION | 30-36 MHZ | 36-42 MHZ | 42-50 MHZ |
|-----------------------|-----------|-----------|-----------|
| C1 | 68 | 56 | 51 |
| C2 | 91 | 68 | 56 |
| C3 | 13 | 12 | 10 |
| C4 | 110 | 91 | 82 |
| C5 | 100 | 82 | 75 |
| C6 | 68 | 56 | 51 |

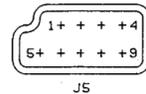
- NOTES:
1. MICROSTRIP (PART OF PW 80).
 2. INDICATES A-
 3. CALLED FOR ON PL 19D423926.
 4. TERMINATE WIRES AT J1-1 WITH 19A115884P7. TERMINATE WIRES AT J1-2, J1-3, J1-4 J1-5, J1-6 & J1-8 WITH 19A115884P9.
 5. TERMINATE WITH A4029840P5.

IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K-1000 OHMS OR MEG-1,000,000 OHMS. CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF-MICROFARADS.

VOLTAGE READINGS

VOLTAGE READINGS ARE TYPICAL READINGS MADE WITH THE TRANSMITTER KEYS, AND MEASURED WITH A 20,000 OHMS-PER-VOLT METER WITH REFERENCE TO A- AND NOT CHASSIS GROUND. AN RF CHOKE (25-50 MICROHENRYS) IS USED IN THE HOT METER LEAD TO AVOID DETUNING RF CIRCUITS. NOTE: READINGS ARE TAKEN WITH TRANSMITTER ADJUSTED TO RATED POWER OUTPUT.



- POS C POWER CONT VOLTAGE
- POS D AMPL I DRIVE
- POS G P.A. VOLTAGE
- POS F (+) P.A. CURRENT
- POS F (-) P.A. CURRENT

PARTS LIST

LBI-30170A
30-50 MHz POWER AMPLIFIER
19D423928G2 30-36 MHz (L)
19D423928G3 36-42 MHz (M)
19D423928G4 42-50 MHz (H)

| SYMBOL | GE PART NO. | DESCRIPTION |
|------------------------|------------------|---|
| A202 and A204 | | POWER AMPLIFIER MODULE 19D423928G2 30-36 MHz 19D423928G3 36-42 MHz 19D423928G4 42-50 MHz |
| ----- CAPACITORS ----- | | |
| C1 and C2 | 19A116655P23 | Ceramic disc: 3900 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C3L | 7489162P35 | Silver mica: 220 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C3H | 7489162P33 | Silver mica: 180 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C4L | 7489162P31 | Silver mica: 150 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C4H | 7489162P29 | Silver mica: 120 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C5L | 7489162P29 | Silver mica: 120 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C5H | 7489162P33 | Silver mica: 180 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C6L | 19A116656P300J15 | Ceramic disc: 300 pf ±5%, 500 VDCW, temp coef -1500 PPM. |
| C6H | 19A116656P180J4 | Ceramic disc: 180 pf ±5%, 500 VDCW, temp coef -470 PPM. |
| C7L | 19A116656P300J15 | Ceramic disc: 300 pf ±5%, 500 VDCW, temp coef -1500 PPM. |
| C7H | 19A116656P180J4 | Ceramic disc: 180 pf ±5%, 500 VDCW, temp coef -470 PPM. |
| C8L | 19A116655P19 | Ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C8H | 19A116655P17 | Ceramic disc: 680 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C9 | 19A116866P107 | Metallized polyester: .1 µf ±10%, 50 VDCW. |
| C10 | 19A134202P6 | Tantalum: 22 µf ±20%, 15 VDCW. |
| C11L | 7489162P33 | Silver mica: 180 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C11H | 7489162P31 | Silver mica: 150 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C12L | 7489162P33 | Silver mica: 180 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C12H | 7489162P27 | Silver mica: 100 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C13L | 7489162P31 | Silver mica: 150 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C13H | 7489162P31 | Silver mica: 150 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C14L | 7489162P35 | Silver mica: 220 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C14H | 7489162P35 | Silver mica: 220 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C15L | 7489162P43 | Silver mica: 470 pf ±5%, 300 VDCW; sim to Electro Motive Type DM-15. |
| C15H | 7489162P43 | Silver mica: 470 pf ±5%, 300 VDCW; sim to Electro Motive Type DM-15. |
| C16 | 7489162P41 | Silver mica: 390 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C17L | 19A116656P130J1 | Ceramic disc: 130 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C17H | 19A116656P91J0 | Ceramic disc: 91 pf ±5%, 500 VDCW, temp coef 0 PPM. |

| SYMBOL | GE PART NO. | DESCRIPTION |
|-----------------------------------|-----------------|---|
| C18L | 19A116656P130J1 | Ceramic disc: 130 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C18H | 19A116656P91J0 | Ceramic disc: 91 pf ±5%, 500 VDCW, temp coef 0 PPM. |
| C19L | 19A116655P19 | Ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C19H | 19A116655P17 | Ceramic disc: 680 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C20 | 19A116866P107 | Metallized polyester: .1 µf ±10%, 50 VDCW. |
| C21L | 7489162P37 | Silver mica: 270 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C21H | 7489162P37 | Silver mica: 270 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C22L | 7489162P29 | Silver mica: 120 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C22H | 7489162P29 | Silver mica: 120 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C23L | 7489162P31 | Silver mica: 150 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C23H | 7489162P29 | Silver mica: 120 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15. |
| C24 thru C27 | 19A116655P19 | Ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C28 thru C30 | 19A116655P23 | Ceramic disc: 3900 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| C31 | 19A134202P14 | Tantalum: 1 µf ±20%, 35 VDCW. |
| C32 and C33 | 19A116655P23 | Ceramic disc: 3900 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| ----- DIODES AND RECTIFIERS ----- | | |
| CR1 | 19A115250P1 | Silicon. |
| ----- TERMINALS ----- | | |
| E1 | 19A134263P1 | Contact, electrical: sim to Selectro X-L-070174-1 |
| ----- JACKS AND RECEPTACLES ----- | | |
| J1 | 19A130924G1 | Receptacle, coaxial: jack type; sim to Cinch 14H11613. |
| J5 | 19B219374G1 | Connector: 9 contacts. |
| ----- INDUCTORS ----- | | |
| L1L | 19C320617P23 | Coil. |
| L1H | 19C320617P24 | Coil. |
| L2L | 19C320617P5 | Coil. |
| L2H | 19C320617P25 | Coil. |
| L3 | 7488079P42 | Choke, RF: 8.20 µh ±10%, 0.25 ohms DC res max; sim to Jeffers 4422-3. |
| L4L | 19C320618P6 | Coil. |
| L4H | 19C320618P1 | Coil. |
| L5 | 7488079P10 | Choke, RF: 3.30 µh ±10%, 0.15 ohms DC res max; sim to Jeffers 4421-1. |
| L6L | 19C320617P26 | Coil. |
| L6H | 19C320617P6 | Coil. |
| L7L | 19C320617P28 | Coil. |
| L7H | 19C320617P28 | Coil. |
| L8L | 19C320617P30 | Coil. |
| L8H | 19C320617P45 | Coil. |
| L9L | 19C320618P7 | Coil. |
| L9H | 19C320618P6 | Coil. |
| L10 | 7488079P42 | Choke, RF: 8.20 µh ±10%, 0.25 ohms DC res max; sim to Jeffers 4422-3. |
| L11L | 19C320618P6 | Coil. |
| L11H | 19C320618P8 | Coil. |

| SYMBOL | GE PART NO. | DESCRIPTION |
|-----------------------------------|----------------|---|
| L12 | 19A129346G1 | Coil. |
| L13L | 19C320617P4 | Coil. |
| L13H | 19C320617P12 | Coil. |
| L14L | 19C320617P38 | Coil. |
| L14H | 19C320617P39 | Coil. |
| L15 | 19C320318P1 | Coil. |
| ----- RESISTORS ----- | | |
| R1 | 3R152P392J | Composition: 3900 ohms ±5%, 1/4 w. |
| R2 | 3R152P511J | Composition: 510 ohms ±5%, 1/4 w. |
| R3L | 3R77P100J | Composition: 10 ohms ±5%, 1/2 w. |
| R3H | 7147161P13 | Composition: 4.7 ohms ±5%, 1/2 w. |
| R4L | 3R77P100J | Composition: 10 ohms ±5%, 1/2 w. |
| R4H | 7147161P13 | Composition: 4.7 ohms ±5%, 1/2 w. |
| R5 and R6 | 3R77P390J | Composition: 30 ohms ±5%, 1/2 w. |
| R7 | 3R77P100J | Composition: 10 ohms ±5%, 1/2 w. |
| R8 | 3R78P182J | Composition: 1800 ohms ±5%, 1 w. |
| R9 | 5490203P16 | Composition: 2.7 ohms ±5%, 1 w. |
| R10 | 3R78P182J | Composition: 1800 ohms ±5%, 1 w. |
| R11L | 7147161P34 | Composition: 3.9 ohms ±5%, 1/2 w. |
| R11H | 7147161P22 | Composition: 1.2 ohms ±5%, 1/2 w. |
| R12L | 7147161P34 | Composition: 3.9 ohms ±5%, 1/2 w. |
| R12H | 7147161P22 | Composition: 1.2 ohms ±5%, 1/2 w. |
| R13L | 7147161P34 | Composition: 3.9 ohms ±5%, 1/2 w. |
| R13H | 7147161P22 | Composition: 1.2 ohms ±5%, 1/2 w. |
| R14L | 7147161P34 | Composition: 3.9 ohms ±5%, 1/2 w. |
| R14H | 7147161P22 | Composition: 1.2 ohms ±5%, 1/2 w. |
| R15 and R16 | 3R77P390J | Composition: 39 ohms ±5%, 1/2 w. |
| R17 | 3R78P100K | Composition: 10 ohms ±10%, 1 w. |
| R18 | 3R152P274J | Composition: 0.27 megohm ±5%, 1/4 w. |
| R19 | 19A116559P102 | Variable, cermet: 5000 ohms ±20%, .5 w; sim to CTS Series 360. |
| R20 | 19C320212P2 | Shunt resistor. |
| ----- CABLES ----- | | |
| W1 and W2 | | (Part of printed board 19D423689P1). |
| ----- CAPACITORS ----- | | |
| C201 | 19A115680P4 | Electrolytic: 50 µf +150% -10%, 25 VDCW; sim to Mallory Type TTX. |
| C202 | 19A116080P101 | Polyester: 0.01 µf ±10%, 50 VDCW. |
| ----- DIODES AND RECTIFIERS ----- | | |
| CR201 | 19A116783P1 | Silicon. |
| CR202 | 4037822P1 | Silicon. |
| ----- TERMINALS ----- | | |
| E201 | 7143206P1 | Terminal standoff. |
| ----- FILTERS ----- | | |
| FL202 thru FL204 | | FILTER BOARD FL202 19C321957G2 30-36 MHz (L) FL203 19C321957G3 36-42 MHz (M) FL204 19C321957G4 42-50 MHz (H) |
| ----- CAPACITORS ----- | | |
| CLL | 19A116656P68J1 | Ceramic disc: 68 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| CLM | 19A116656P68J1 | Ceramic disc: 68 pf ±5%, 500 VDCW, temp coef -150 PPM. |

| SYMBOL | GE PART NO. | DESCRIPTION |
|-----------------------------------|----------------|--|
| C1H | 19A116656P51J1 | Ceramic disc: 51 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C2L | 19A116679P91J | Mica: 91 pf ±5%, 250 VDCW. |
| C2M | 19A116679P68J | Mica: 68 pf ±5%, 250 VDCW. |
| C2H | 19A116679P56J | Mica: 56 pf ±5%, 250 VDCW. |
| C3L | 19A116656P13J1 | Ceramic disc: 13 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C3M | 19A116656P12J1 | Ceramic disc: 12 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C3H | 19A116656P10J1 | Ceramic disc: 10 pf ±0.5 pf, 500 VDCW, temp coef -150 PPM. |
| C4L | 19A116679P110J | Mica: 110 pf ±5%, 250 VDCW. |
| C4M | 19A116679P91J | Mica: 91 pf ±5%, 250 VDCW. |
| C4H | 19A116679P82J | Mica: 82 pf ±5%, 250 VDCW. |
| C5L | 19A116679P100J | Mica: 100 pf ±5%, 250 VDCW. |
| C5M | 19A116679P82J | Mica: 82 pf ±5%, 250 VDCW. |
| C5H | 19A116679P75J | Mica: 75 pf ±5%, 250 VDCW. |
| C6L | 19A116656P68J1 | Ceramic disc: 68 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C6M | 19A116656P56J1 | Ceramic disc: 56 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C6H | 19A116656P51J1 | Ceramic disc: 51 pf ±5%, 500 VDCW, temp coef -150 PPM. |
| C7 and C8 | 19A116655P19 | Ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap. |
| ----- JACKS AND RECEPTACLES ----- | | |
| J1 | 19A116659P55 | Connector, printed wiring: 3 contacts; sim to Molex 09-65-1031. |
| J2 | 19A130924G1 | Connector, receptacle: coaxial, jack type; sim to Cinch 14H11613. |
| ----- RELAYS ----- | | |
| K1 | 19B209558P1 | Hermetic sealed: 180 to 330 ohms coil res, 2 form C contacts; 8.0 to 16.3 VDC nominal; sim to GE 3SAV1760A2. |
| ----- INDUCTORS ----- | | |
| L1L | 19A129360P6 | Coil. |
| L1M | 19A129360P4 | Coil. |
| L1H | 19A129360P1 | Coil. |
| L2L | 19A129360P7 | Coil. |
| L2M | 19A129360P3 | Coil. |
| L2H | 19A129360P2 | Coil. |
| L3L | 19A129360P8 | Coil. |
| L3M | 19A129360P5 | Coil. |
| L3H | 19A129360P3 | Coil. |
| L4L | 19A129360P6 | Coil. |
| L4M | 19A129360P4 | Coil. |
| L4H | 19A129360P1 | Coil. |
| ----- CABLES ----- | | |
| W1 thru W5 | | (Part of printed board 19C321934P1). (Part of printed board 19C321934P1). |
| W6 | 19A136512P1 | Antenna strap. |
| ----- FILTERS ----- | | |
| FL210 | | FILTER ASSEMBLY 19A136680G1 |
| ----- CAPACITORS ----- | | |
| C1 thru C5 | 549392P7 | Ceramic, feed-thru: 1000 pf ±100% -0%, 500 VDCW; sim to Allen-Bradley Type FASC. |

| SYMBOL | GE PART NO. | DESCRIPTION |
|-----------------------------------|---------------|---|
| G11 thru G14 | 7135118P2 | ----- TERMINALS ----- Terminal, solderless. |
| ----- JACKS AND RECEPTACLES ----- | | |
| J1 | 19A115884P12 | Connector. Includes: Shell. |
| | 19A115884P7 | Contacts, male: wire size 14-20; sim to AMP 60528-1. (Quantity 2). |
| | 19A115884P9 | Contacts, male: wire size 22-30; sim to AMP 60910-1. (Quantity 5). |
| J3 | 4029493P1 | Connector, receptacle: coaxial; sim to Amphenol 83-788. |
| ----- INDUCTORS ----- | | |
| L210 thru L213 | 19A126140P3 | Core, toroidal, ferrite: sim to Stackpole 88-31959. |
| ----- PLUGS ----- | | |
| P201 | | (Part of W201). |
| ----- TRANSISTORS ----- | | |
| Q201 | 19A116965P1 | Silicon, NPN. |
| Q202 | 19A134104P1 | Silicon, NPN. |
| Q215 | 19A116742P1 | Silicon, NPN. |
| ----- CABLES ----- | | |
| W201 | 5491689P91 | Cable, RF: approx 7-1/2 inches long. |
| W202 | 19A136529G1 | Cable: approx 4 inches long. |
| W203 | 19B227302P1 | Jumper. |
| ----- MISCELLANEOUS ----- | | |
| | 19A136518P1 | Shield. (Used with FL202-FL204). |
| | 19B219555P1 | Cover. (Used with FL202-FL204). |
| | 19C321982P1 | Insulator. (Located under A202, A204). |
| | 4033714P11 | Solderless terminal: sim to Zierick 349. (Used with FL202-FL204). |
| | 19B209209P304 | Tap screw, Phillips Pozidriv®: No. 6-32 x 1/4. (Secures FL210). |
| | 19B201074P204 | Tap screw, Phillips POZIDRIV®: No. 4-40 x 1/4. (Secures J3). |
| | 5492178P2 | Washer, spring tension: sim to Wallace Barnes 375-20. (Used with Q201, Q202). |
| | N207P15C6 | Nut, hex: No. 8-32. (Secures Q201). |
| | N207P16C6 | Nut, hex: No. 10-32. (Secures Q202). |
| | 19A116023P1 | Insulator, plate. Dupont No. 300 Kapton H. (Used with Q215). |
| | 19A134016P1 | Insulator, bushing. (Used with Q215). |
| | 7878243P11 | Nut, hex: No. 8-32. (Secures stud that mates with wing nut securing radio to case). |
| | NP280071 | Nameplate. (CAUTION). |
| ----- CABLES ----- | | |
| W1 thru W5 | | (Part of printed board 19C321934P1). (Part of printed board 19C321934P1). |
| ----- FILTERS ----- | | |
| C1 thru C5 | 549392P7 | Ceramic, feed-thru: 1000 pf ±100% -0%, 500 VDCW; sim to Allen-Bradley Type FASC. |

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