

MAINTENANCE MANUAL

406—512 MHz, 40 WATT POWER AMPLIFIER ASSEMBLY

I9D424888G5-8, G22-25 AND G35, G36 (MOBILE & STATION)

I9D424895G5-8, G22-25 AND G36, G37 (CONTINUOUS DUTY STATION)

LB130213E
(DF3174)
(DF3172, INTS)

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DESCRIPTION

The PA assembly uses four RF power transistors to provide rated output power. R213, located on the PA module, is used to adjust the output power over a range of 12 Watts to rated output power. The power control circuit consists of R213, Q215, and Power Control IC (U201). Included in the PA assembly, is a Low Pass Filter/Antenna Switch module used to suppress undesired harmonic frequency components and provide antenna switching for the receiver and the transmitter.

SUPPLY VOLTAGE

Supply voltage for the PA is connected through power leads from the system board to feed through capacitors C297 and C298 on the bottom of the PA assembly (See Schematic Diagram). C297, C298, and C299 prevent RF from getting on the power leads. Diode CR295 will cause the main fuse assembly to blow if the polarity of the power leads is reversed, providing reverse voltage protection for the radio.

The PA assembly is insulated from vehicle ground to permit operation in positive or negative ground vehicles.

NOTE

In positive ground vehicles, A- is "hot" with respect to vehicle ground. Shorting the transmitter PA printed wiring board ground pattern to the radio case may cause one of the in-line fuses to blow.

Centralized metering jack J205 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 control voltage, PA current and PA voltage.

CIRCUIT ANALYSIS

RF POWER AMPLIFIER ASSEMBLY

The exciter output is coupled through a 50-ohm RF cable to the PA module input jack J201. The 50-ohm RF input is coupled through a matching network comprised of C206, C207, C208 and W202 to the base of power amplifier Q201.

Part of the RF input is rectified by CR201 and metered at J205-4 through resistor R201. The rectified RF is also applied to the power control IC (U201).

Collector voltage for Q201 is applied direct from the DC power input through collector stabilizing network R205 and L202 and collector feed network L203 and C210.

The 500 milliwatt, 50-ohm output of Q201 is coupled to the base of a second power amplifier Q202 through a matching network consisting of T201, C214, C215, C216 and L204.

Collector voltage to Q202 is controlled by power control IC (U201), Q215 and R213 and is applied through a collector stabilizing network L206 and R206 and collector feed network L205 and C218.

The 6 Watt, 50-ohm output of Q202 is coupled to the base of Driver Amplifier Q203

through C219 and the matching network of T202, C222, C224, C225, and L207. The collector voltage to Q203 is coupled through collector stabilizing network L209 and R214 and collector feed network L208 and C228.

The 20 Watt output of Q203 is coupled through an impedance matching network (C229, C230, C233 and T203) that matches the output impedance of Q203 to the input impedance of power amplifier Q204 through a 50-ohm micro strip (W204) and input impedance matching network T204, C234, C235 and C236.

The collector voltage for Q204 is coupled through collector stabilizing network L212 and R208 and collector feed network C239 and L211. Supply voltage is measured in position F on the 15 Volt range with the polarity switch in the (-) position (read as 15 Volts full scale).

Collector current for Q204 is metered across tapped manganin resistor R212. The reading taken in position F on the 15 Volt scale with the High Sensitivity button pressed and read as 0-15 amperes full scale.

Following power amplifier Q204 to the 50-ohm input of the Low Pass Filter Module through 50-ohm micro strip W205 and a 50-ohm cable W218.

The input to the Low Pass Filter to the antenna switch K201 is coupled through the 50-ohm micro strip W4280. The output is applied to the antenna at J203.

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 CONTROL CIRCUIT

The Power Control Circuit, located on the PA module, consists of CR201, Power Control IC (U201), RT201, Q215, and R213.

When the transmitter is keyed, rectified RF from CR201 is applied to Switch Q1 of Power Control IC (U201), turning it on (See Figure 1). Turning on Q1 turns on voltage regulator Q2, supplying a constant voltage via Pin 14 to Power Adjust potentiometer R213. R213 through Pin 12 connect to the base of Q5. Q5, Q6 and Q215 operate as an amplifier chain to supply voltage to the collector of Q202 (Ampl-2). The setting of R213 determines the voltage applied to the base of Q5. The higher the voltage at the base of Q5, the harder the amplifiers conduct, supplying more collector voltage to Q202. The lower the voltage at the base of Q5, the less collector voltage is supplied to Q202. Reducing the supply voltage to Q202 reduces the drive to Q203 and Q204, thereby reducing the power output of the PA. The power output can be adjusted by R213 from 12 Watts to rated power output.

Temperature protection is provided by Q3, Q4 in IC U201 and thermistor RT201 which is mounted on the PA heatsink. Under normal operating conditions, the circuit is inactive (Q3 is on and Q4 is off). When the heatsink temperature reaches approximately 115°C the resistance of RT201 decreases. This increases the base voltage applied to Q3, turning it off. Turning off Q3 allows Q4 to turn on, decreasing the voltage at Power Adjust potentiometer R213. This reduces the base voltage to Q5 which causes Q6 and Q215 to conduct less, reducing the collector voltage to Q202 (Ampl-2). This reduces the transmitter output power, keeping the heatsink at a maximum of approximately 115°C. When the heatsink temperature decreases below 115°C, the temperature control circuit turns off, allowing the normal transmitter power output.

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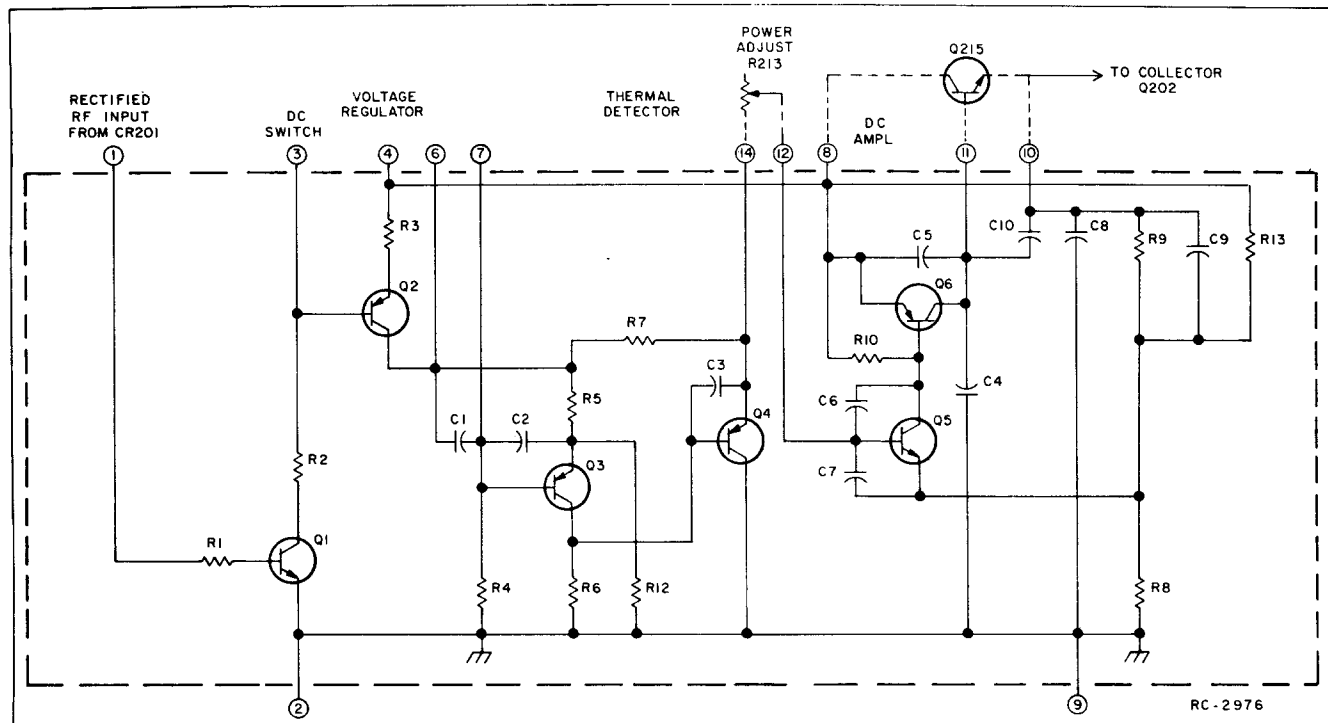
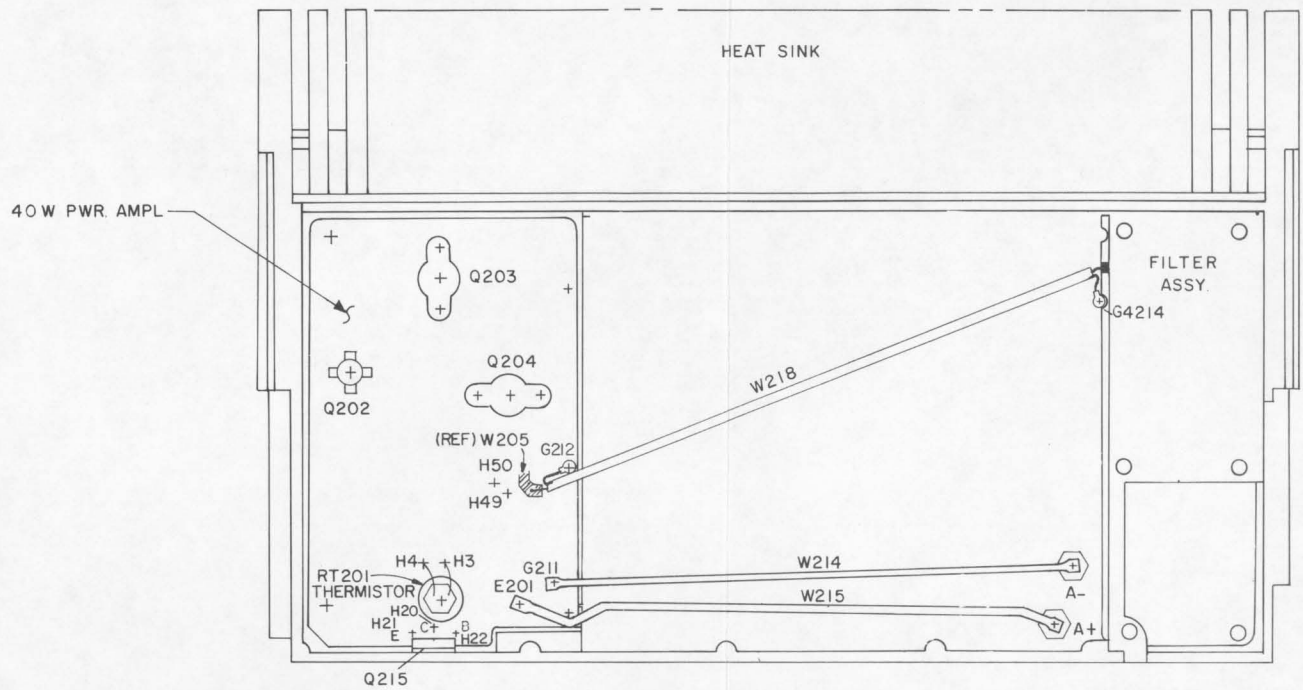


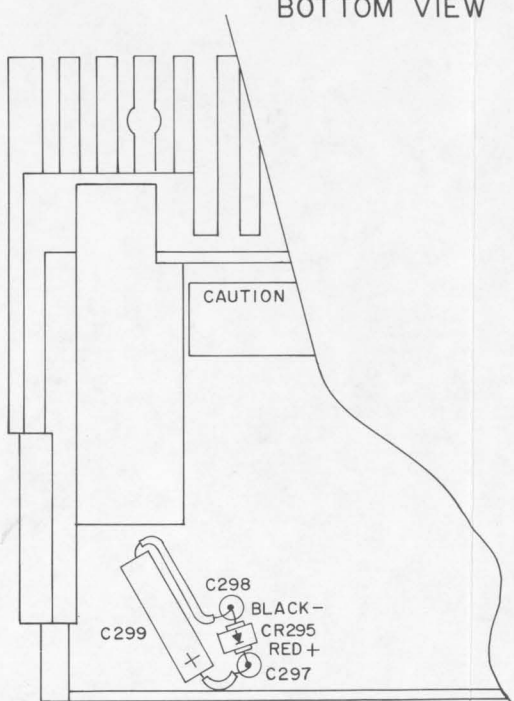
Figure 1 - Power Control IC - U201

PA ASSEMBLY

TOP VIEW



BOTTOM VIEW



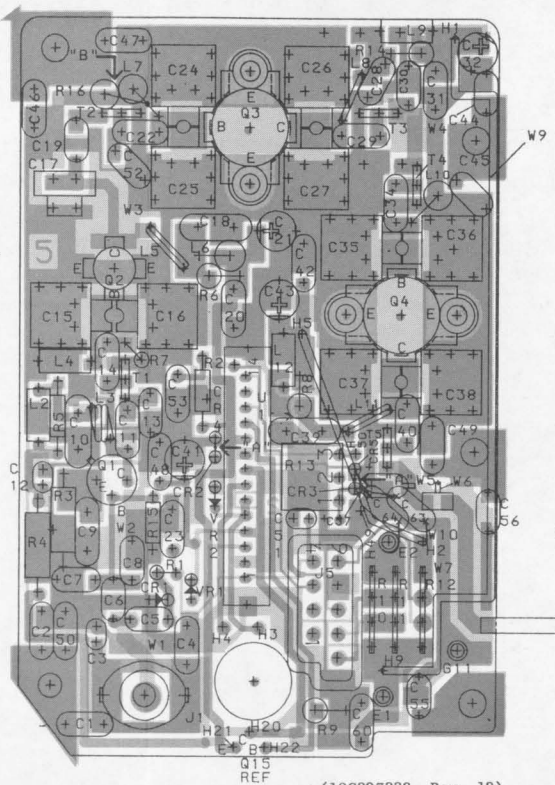
(19D424207, Rev. 1)

OUTLINE DIAGRAM

40 WATT POWER AMPLIFIER

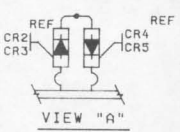
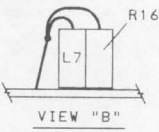
40 WATT PA MODULE

TOP

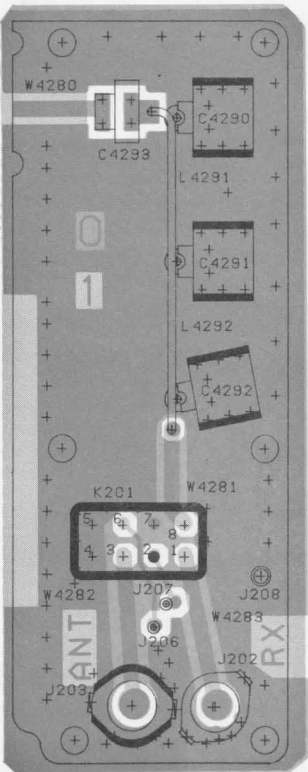


(19C327332, Rev. 12)
(19B226633, Sh. 1, Rev. 5)
(19B226633, Sh. 2, Rev. 2)

- NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATION. PREFIX WITH 200 SERIES. EXAMPLE: C1-C201, R1-R201, ETC.
 2. C9 USED IN GROUP 5 ONLY. DA JUMPER IN C9 MTG HOLES FOR GROUP 6, 7 & 8.

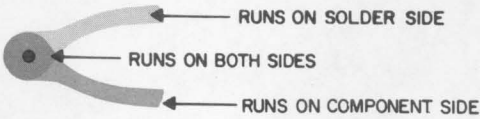
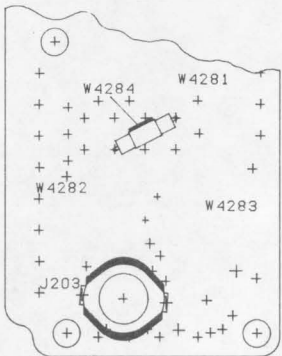


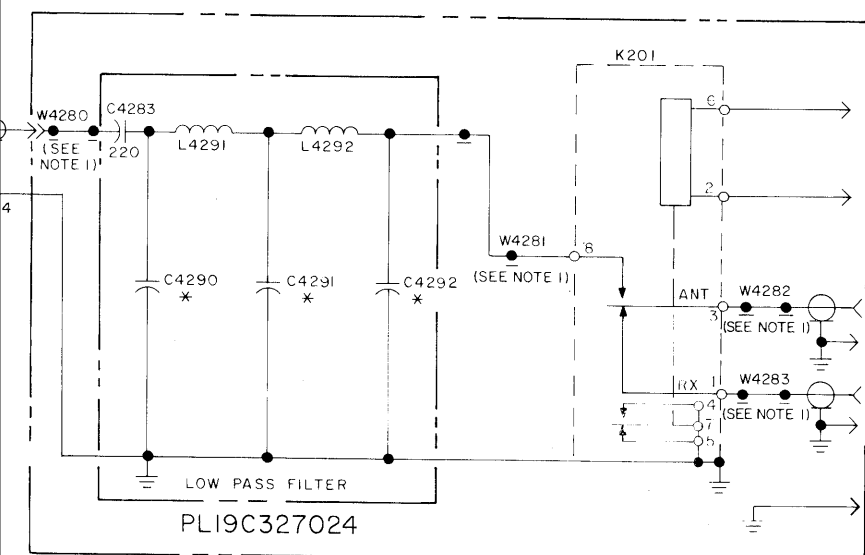
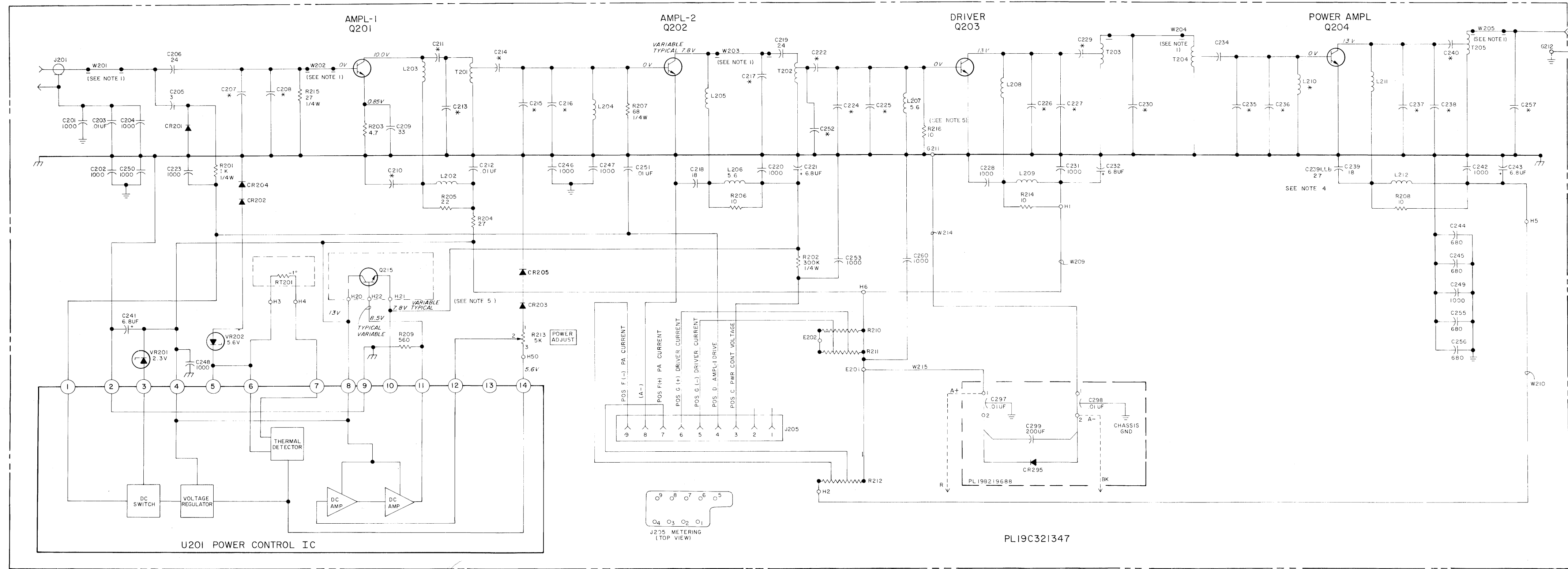
MOBILE & STATION FILTER BOARD



(19C327643, Rev. 1)
(19B227265, Sh. 1, Rev. 1)
(19B227265, Sh. 2, Rev. 0)

DUPLEX STATION FILTER BOARD





PA ASSEMBLY	REV LTR	HEAT SINK ASM	REV LTR
PL19D42488805	A	PL19B21968807	
PL19D42488806	A	PL19H1968807	
PL19D42488807	A	PL19B21968807	
PL19D42488808	A	PL19B21968807	
PL19D42488809	A	PL19B21968807	
PL19D42488810	A	PL19B21968807	
PL19D42488811	A	PL19B21968807	
PL19D42488812	A	PL19B21968807	
PL19D42488813	A	PL19B21968807	
PL19D42488814	A	PL19B21968807	
PL19D42488815	A	PL19B21968807	
PL19D42488816	A	PL19B21968807	
PL19D42488817	A	PL19B21968807	
PL19D42488818	A	PL19B21968807	
PL19D42488819	A	PL19B21968807	
PL19D42488820	A	PL19B21968807	
PL19D42488821	A	PL19B21968807	
PL19D42488822	A	PL19B21968807	
PL19D42488823	A	PL19B21968807	
PL19D42488824	A	PL19B21968807	
PL19D42488825	A	PL19B21968807	
PL19D42488826	A	PL19B21968807	
PL19D42488827	A	PL19B21968807	
PL19D42488828	A	PL19B21968807	
PL19D42488829	A	PL19B21968807	
PL19D42488830	A	PL19B21968807	
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PL19D42488861	A	PL19B21968807	
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PL19D42488898	A	PL19B21968807	
PL19D42488899	A	PL19B21968807	
PL19D42488900	A	PL19B21968807	

ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR M=1,000,000 OHMS. CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROFARADS UNLESS FOLLOWED BY U=1 MICROFARAD, INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH= MILLIHENRYS OR H=HENRYS

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.

40 WATT MODULE	REV LTR	FILTER MODULE	REV LTR	FREQUENCY
PL19C321347G5	J	PL19C327024G1		406-420 MHz
PL19C321347G6	J	PL19C327024G2		450-470 MHz
PL19C321347G7	F	PL19C327024G2		470-494 MHz
PL19C321347G8	F	PL19C327024G2		494-512 MHz
PL19C321347G9	B	PL19C327024G1		420-450 MHz
PL19C321347G5	J	PL19C327024G1		406-420 MHz
PL19C321347G6	J	PL19C327024G2		450-470 MHz
PL19C321347G7	F	PL19C327024G2		470-494 MHz
PL19C321347G8	F	PL19C327024G2		494-512 MHz
PL19C321347G9	B	PL19C327024G1		420-450 MHz

VOLTAGE READINGS
VOLTAGE READINGS ARE TYPICAL READINGS MADE WITH TRANSMITTER KEYED, 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 AT Q202 COLLECTOR AND IN THE POWER CONTROL CIRCUIT WERE TAKEN WITH THE TRANSMITTER ADJUSTED FOR 40 WATTS OUTPUT. THESE READINGS WILL VARY DEPENDING ON THE SETTING OF POWER ADJUST CONTROL R213.

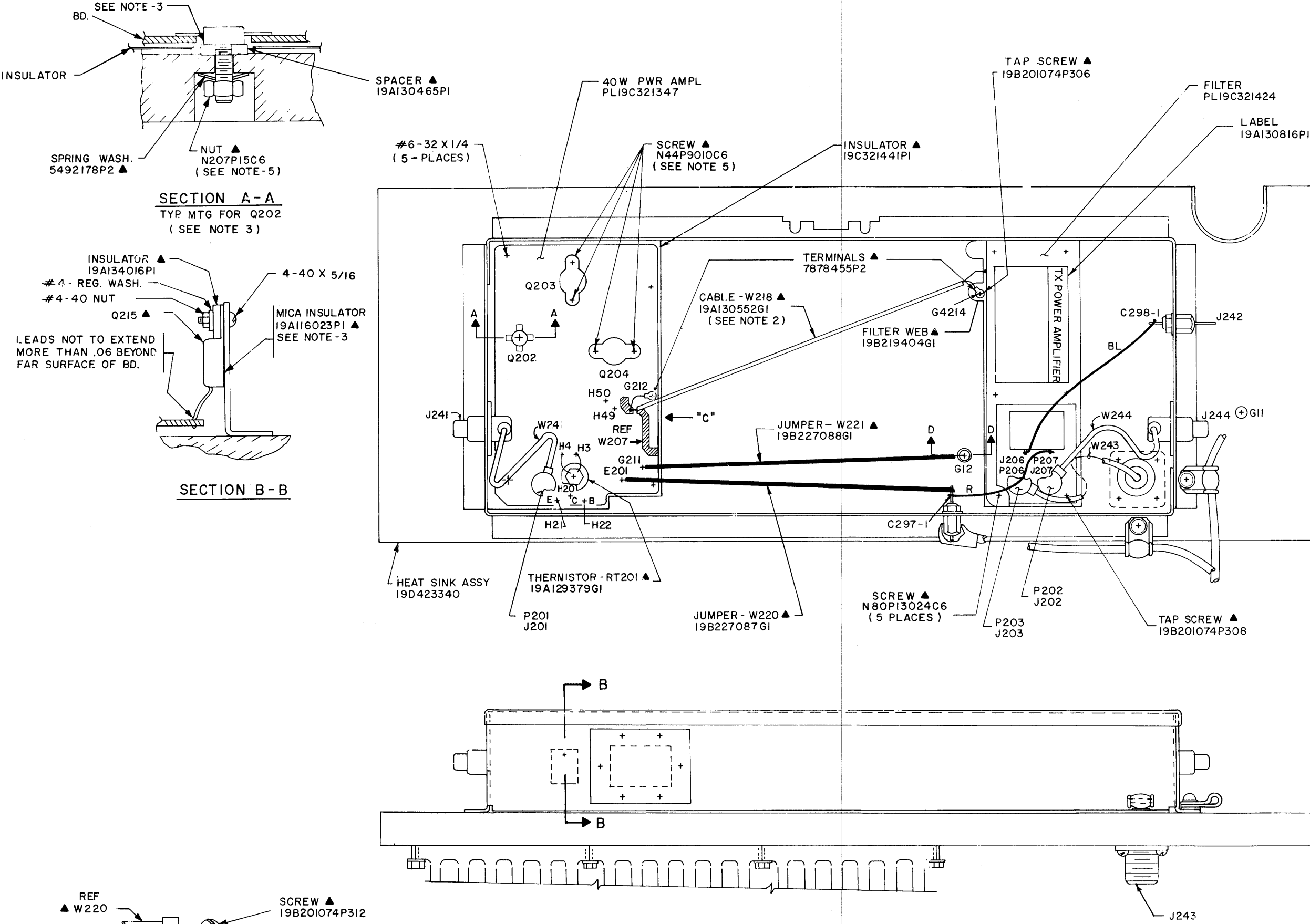
- NOTES:
1. MICROSTRIP PART OF PWB
2. ALL COMPONENTS MARKED WITH (X) ASTERISK, SEE COMPONENT VALUE TABLE
3. // INDICATES A-
4. C239LLB IS USED IN PL19C321347G5 & G9 ONLY.
5. R216 USED ONLY IN 450-470MHZ RANGE.
6. C252 NOT USED IN PL19C321347G9.

* COMPONENT VALUES AS FOLLOWS				
COMP IDENT	LL 406-450 MHZ	L 450-470 MHZ	M 470-494 MHZ	H 494-512 MHZ
C207	8	9	7	6
C208	8			
C210	27	18	18	18
C211	33	24	24	24
C213	5			
C214	33	24	24	24
C215	47	47	43	43
C216	51	43	43	39
C217	18	16	15	13
C222	33	24	24	24
C224	41	35	35	32
C225	43	35	33	32
C226	47	43	37	35
C227	43	37	37	35
C229	33	24	24	24
C230	8	47	4	3
C234	33	24	24	24
C235	43	37	35	33
C236	39	35	33	33
C237	47	47	37	35
C238	47	43	43	39
C240	33	24	24	24
C252	9	7	4	3
C257	5			
C4290	10	9	9	9
C4291	20	18	18	18
C4292	13	12	12	12
L210	15	5.6	5.6	5.6

SCHEMATIC DIAGRAM

40 WATT POWER AMPLIFIER

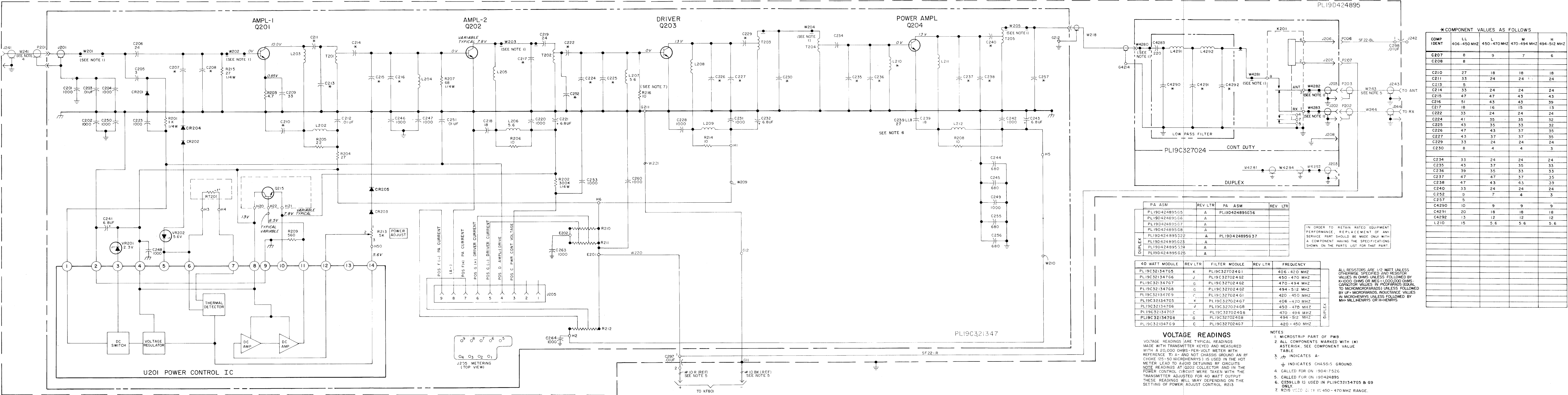
40 W UHF PA



2. NOTES:
- ▲ PART OF KIT 19A130484.
 - CENTER CONDUCTOR OF W218 MUST BE SOLDERED TO W205 IN AREA INDICATED. NOTE: GROUND BRAID OF W218 MUST NOT TOUCH GROUND ON 40W MODULE (19C321347).
 - APPLY SILICONE GREASE TO BOTH SURFACES OF TRANSISTOR INSULATOR (19A116023PI), BETWEEN BOTH MTG SURFACES OF SPACER (19A130465PI) & BETWEEN MTG. SURFACE OF RT201 Q203, Q204 & HEAT SINK PER CPD PROCESS P6A-EA111. CARE MUST BE USED SO THAT NO GREASE IS APPLIED TO THE THREADED PORTION OF THE MTG. STUD OF Q202.
 - SOLDER ALL ELECTRICAL CONNECTIONS.
 - TIGHTEN TRANSISTOR MTG. HARDWARE TO WITHIN 8 ± 1 IN. LBS. FOR #8 HARDWARE & 6 ± 1 IN. LBS. FOR #4 HARDWARE.
 - RECOMMENDED INSTALLATION PROCEDURE OF 40 WATT MODULE (19C321347) IS:
ASSEMBLE ALL HARDWARE LOOSE THEN TORQUE Q202, THEN TORQUE Q203 AND Q204 THEN TIGHTEN MOUNTING HARDWARE.
 - SEE INTERCONNECTION DIAG 19R622186.

OUTLINE DIAGRAM

CONTINUOUS DUTY
STATION POWER AMPLIFIER
Issue 2 7



SCHEMATIC DIAGRAM

CONTINUOUS DUTY
STATION POWER AMPLIFIER

PARTS LIST

LBI30594D

406-512 MHz, 40 WATT POWER AMPLIFIER
19D424895G5-G8, 36 (CONTINUOUS DUTY)
19D424895G22-G25, 37 (CONTINUOUS DUTY - DUPLEX)

SYMBOL	GE PART NO.	DESCRIPTION
		----- CAPACITORS -----
C297 and C298	19A116708P1	Ceramic, feed-thru: 0.01 μ f +100% -0%, 500 VDCW; sim to Erie 327050X5W0103P.
		----- TERMINALS -----
G212	7878455P2	Terminal, lug.
G4214	7878455P2	Terminal, lug.
		----- JACKS AND RECEPTACLES -----
J243	5491689P108	Connector, plug: includes 10 inch cable.
		----- PLUGS -----
P203		Connector. Includes receptacle and adaptor. (Order separately).
	4029493P1	Receptacle, coaxial: sim to Amphenol 83-798.
	4029082P2	Adaptor.
P206 and P207	4036634P1	Contact, electrical; sim to AMP 42428-2.
		----- TRANSISTORS -----
Q215	19A116742P1	Silicon, NPN.
		----- THERMISTORS -----
RT201	19A129379G1	Thermistor: 40K ohms $\pm$ 20%, color code white; sim to Carborundum Type M08063-S.
		----- CABLES -----
W218	19A130552G1	Jumper.
W220	19B227087G1	Jumper.
W221	19B227088G1	Jumper.
W243	19A129312G6	Antenna cable: approx 10 inches long. (Includes J243).
W244	5491689P104	Cable, RF: approx 3-5/8 inches long.
		40 WATT MODULE 19C321347G5 408-420 MHz (1L) 19C321347G6 450-470 MHz (L) 19C321347G7 470-494 MHz (M) 19C321347G8 494-512 MHz (H) 19C321347G9 420-450 MHz (1L)
		----- CAPACITORS -----
C201 and C202	19A116655P20	Ceramic disc: 1000 pf $\pm$ 10%, 1000 VDCW; sim to RMC Type JF Discap.
C203	19A116192P1	Ceramic: 0.01 μ f $\pm$ 20%, 50 VDCW; sim to Erie 8121 SPECIAL.
C204	19A116655P20	Ceramic disc: 1000 pf $\pm$ 10%, 1000 VDCW; sim to RMC Type JF Discap.
C205	19A116656P3J0	Ceramic disc: 3 pf $\pm$ 0.5 pf, 500 VDCW, temp coef 0 PPM.
C206*	19A116656P24J0	Ceramic disc: 24 pf $\pm$ 5%, 500 VDCW, temp coef 0 PPM In 19C321347G5 of REV E & earlier: In 19C321347G6,G7,G8 REV C & earlier:
	19A116655P18	Ceramic disc: 680 pf $\pm$ 0%, 1000 VDCW; sim to RMC Type JF Discap.
C2071L	19A116656P8J0	Ceramic disc: 8 pf $\pm$ 0.5 pf, 500 VDCW, temp coef 0 PPM.

SYMBOL	GE PART NO.	DESCRIPTION
C207L*	19A116656P9J0	Ceramic disc: 9 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. In REV D & earlier:
	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C207M*	19A116656P7J0	Ceramic disc: 7 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. In REV E & earlier:
	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C207H	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C208LL	19A116656P8J0	Ceramic disc: 8 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C208L*	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV E.
C208M*	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV F.
C208H*	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV F.
C209*	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM. Added to G5 by REV G, G6 by REV E, G7 & G8 by REV F.
C209LL*	7489162P15	Silver mica: 33 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C. Added by REV D. Deleted by REV G.
C209L*	7489162P11	Silver mica: 22 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C.
C209M*	7489162P11	Silver mica: 22 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C.
C209H*	7489162P13	Silver mica: 27 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM-15. Deleted by REV C.
C210LL	19A134666P3	Silver mica: 27 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM154CR.
C210L	19A134666P1	Silver mica: 18 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM154CR.
C210M	19A134666P1	Silver mica: 18 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM154CR.
C210H	19A134666P1	Silver mica: 18 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM154CR.
C211LL	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C211L	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C211M	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C211H	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C212	19A116192P1	Ceramic: 0.01 μ f $\pm 20\%$, 50 VDCW; sim to Erie 8121 SPECIAL.
C213*	19A116656P4J0	Ceramic disc: 4 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. Deleted by REV B.
C213LL*	19A116656P5J0	Ceramic disc: 5 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. Added by REV E.
C214LL	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C214L	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C214M	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C214H	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C215LL	19A116952P47	Metallized teflon: 47 pf $\pm 2\%$, 250 VDCW.
C215L	19A116952P47	Metallized teflon: 47 pf $\pm 2\%$, 250 VDCW.
C215M	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C215H	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C216LL	19A116952P51	Metallized teflon: 51 pf $\pm 2\%$, 250 VDCW.
C216L	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C216M	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C216H	19A116952P39	Metallized teflon: 39 pf $\pm 2\%$, 250 VDCW.
C217LL	19A116679P18D	Metallized teflon: 18 pf ± 5 pf, 250 VDCW.
C217L	19A116679P16D	Metallized teflon: 16 pf ± 5 pf, 250 VDCW.

SYMBOL	GE PART NO.	DESCRIPTION
C217M	19A116679P15D	Metallized teflon: 15 pf ± 5 pf, 250 VDCW.
C217H	19A116679P13D	Metallized teflon: 13 pf ± 5 pf, 250 VDCW.
C218	19A134666P1	Silver mica: 18 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DMI54CR.
C219*	19A116655P18	Ceramic disc: 680 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap. Deleted in G2 & G6 by REV J.
C219L*	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM. Added to G2 & G6 by REV J.
C220	19A116655P20	Ceramic disc: 1000 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C221	19B209723P4	Tantalum: 6.8 μ f $\pm 20\%$, 35 VDCW.
C222LL	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C222L	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C222M	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C222H	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C223	19A116655P20	Ceramic disc: 1000 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C224LL	19A116952P41	Metallized teflon: 41 pf $\pm 2\%$, 250 VDCW.
C224L	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C224M	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C224H	19A116952P32	Metallized teflon: 32 pf $\pm 2\%$, 250 VDCW.
C225LL	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C225L	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C225M	19A116952P33	Metallized teflon: 33 pf $\pm 2\%$, 250 VDCW.
C225H	19A116952P32	Metallized teflon: 32 pf $\pm 2\%$, 250 VDCW.
C226LL	19A116952P47	Metallized teflon: 47 pf $\pm 2\%$, 250 VDCW.
C226L	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C226M	19A116952P37	Metallized teflon: 37 pf $\pm 2\%$, 250 VDCW.
C226H	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C227LL	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C227L	19A116952P37	Metallized teflon: 37 pf $\pm 2\%$, 250 VDCW.
C227M	19A116952P37	Metallized teflon: 37 pf $\pm 2\%$, 250 VDCW.
C227H	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C228	19A116655P20	Ceramic disc: 1000 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C229LL	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C229L	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C229M	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C229H	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C230LL	19A116656P8J0	Ceramic disc: 8 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C230L	19A116656P4J0	Ceramic disc: 4 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C230M	19A116656P4J0	Ceramic disc: 4 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C230H	19A116656P3J0	Ceramic disc: 3 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C231	19A116655P20	Ceramic disc: 1000 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C232	19B209723P4	Tantalum: 6.8 μ f $\pm 20\%$, 35 VDCW.
C233L*	19A134100P20	Ceramic disc: 2.2 pf ± 0.1 pf, 100 VDCW. Deleted by REV B.
C233H*	19A134100P20	Ceramic disc: 2.2 pf ± 0.1 pf, 100 VDCW. Deleted by REV B.
C234LL	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C234L	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.

SYMBOL	GE PART NO.	DESCRIPTION
C234M	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C234H	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C235LL	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C235L	19A116952P37	Metallized teflon: 37 pf $\pm 2\%$, 250 VDCW.
C235M	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C235H	19A116952P33	Metallized teflon: 33 pf $\pm 2\%$, 250 VDCW.
C236LL	19A116952P39	Metallized teflon: 39 pf $\pm 2\%$, 250 VDCW.
C236L	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
C236M	19A116952P33	Metallized teflon: 33 pf $\pm 2\%$, 250 VDCW.
C236H	19A116952P33	Metallized teflon: 33 pf $\pm 2\%$, 250 VDCW.
C237LL	19A116952P47	Metallized teflon: 47 pf $\pm 2\%$, 250 VDCW.
C237L	19A116952P47	Metallized teflon: 47 pf $\pm 2\%$, 250 VDCW.
C237M	19A116952P37	Metallized teflon: 37 pf $\pm 2\%$, 250 VDCW.
C237H*	19A116952P35	Metallized teflon: 35 pf $\pm 2\%$, 250 VDCW.
		In REV D & earlier:
	19A116952P33	Metallized teflon: 33 pf $\pm 2\%$, 250 VDCW.
C238LL	19A116952P47	Metallized teflon: 47 pf $\pm 2\%$, 250 VDCW.
C238L	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
C238M*	19A116952P43	Metallized teflon: 43 pf $\pm 2\%$, 250 VDCW.
		In REV D & earlier:
	19A116952P37	Metallized teflon: 37 pf $\pm 2\%$, 250 VDCW.
C238H*	19A116952P39	Metallized teflon: 39 pf $\pm 2\%$, 250 VDCW.
		In REV D & earlier:
	19A116952P33	Metallized teflon: 33 pf $\pm 2\%$, 250 VDCW.
C239*	19A134666P1	Silver mica: 18 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM154CR. Deleted from G5 by REV H.
C239LL*	19A134666P3	Silver mica: 27 pf $\pm 5\%$, 500 VDCW; sim to Electro Motive Type DM154CR. Added to G5 by REV H.
C240LL	19A116656P33J0	Ceramic disc: 33 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C240L	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C240M	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C240H	19A116656P24J0	Ceramic disc: 24 pf $\pm 5\%$, 500 VDCW, temp coef 0 PPM.
C241	19A134202P15	Tantalum: 6.8 μ f $\pm 20\%$, 35 VDCW.
C242	19A116655P20	Ceramic disc: 1000 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C243	19A134202P15	Tantalum: 6.8 μ f $\pm 20\%$, 35 VDCW.
C244 and C245	19A116655P18	Ceramic disc: 680 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C246 thru C250	19A116655P20	Ceramic disc: 1000 pf $\pm 10\%$, 1000 VDCW; sim to RMC Type JF Discap.
C251	19A116192P1	Ceramic: 0.01 μ f $\pm 20\%$, 50 VDCW; sim to Erie 8121 SPECIAL.
C252LL*	19A116656P9J0	Ceramic disc: 9 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
		In REV B-G:
	19A116656P6J0	Ceramic disc: 6 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
		In REV A & earlier:
	19A116656P4J0	Ceramic disc: 4 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
C252L*	19A116656P7J0	Ceramic disc: 7 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM.
		In REV B-H:
	19A116656P5J0	Ceramic disc: 5 pf ± 0.5 pf, 500 VDCW, temp coef 0 PPM. Added by REV B.

SYMBOL	GE PART NO.	DESCRIPTION
C252M*	19A116656P4J0	Ceramic disc: 4 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Added by REV B.
C252H*	19A116656P3J0	Ceramic disc: 3 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM. Added by REV B.
C253	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C255 and C256	19A116655P18	Ceramic disc: 680 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C257LL	19A116656P5J0	Ceramic disc: 5 pf ±0.5 pf, 500 VDCW, temp coef 0 PPM.
C257L*	19A134100P20	Ceramic disc: 2.2 pf ±0.1 pf, 100 VDCW. Deleted by REV B.
C257M*	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW. Deleted by REV B.
C257H*	19A134100P19	Ceramic disc: 1 pf ±0.1 pf, 100 VDCW. Deleted by REV B.
C260	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap.
C262*	19A116114P2044	Ceramic: 27 pf ±5%, 100 VDCW; temp coef -80 PPM. Added to G6 by REV F. Deleted by REV G.
C263* and C264*	19A116655P20	Ceramic disc: 1000 pf ±10%, 1000 VDCW; sim to RMC Type JF Discap. Added to G5 by REV K. Added to G6 by REV H. Added to G7 & G8 by REV G. Added to G9 by REV C.
CR201	19A116052P1	----- DIODES AND RECTIFIERS ----- Silicon, hot carrier: Fwd. drop .350 volts max.
CR202 thru CR205	19A115250P1	Silicon, fast recovery, 225 mA, 50 PIV.
E201 and E202	19A134263P1	----- TERMINALS ----- Contact, electrical: sim to Selectro 229-1082-00-0-590.
G211	19A134263P1	Contact, electrical: sim to Selectro 229-1082-00-0-590.
J201	19A130924G1	----- JACKS AND RECEPTACLES ----- Connector, receptacle: coaxial, jack type; sim to Cinch 14H11613.
J205	19B219374G1	Connector: 9 contacts.
L202	19A129773G1	----- INDUCTORS ----- Coil.
L203	19A129774P1	Coil.
L204	19A129773G1	Coil.
L205	19B219457P6	Coil.
L206	7488079P40	Choke, RF: 5.60 µh ±10%, 0.15 ohms DC res max; sim to Jeffers 4422-1K.
L207	7488079P13	Choke, RF: 5.60 µh ±10%, 0.30 ohms DC res max; sim to Jeffers 4421-4K.
L208LL	19B219457P6	Coil.
L208L	19A130650P1	Coil.
L208M	19A130650P1	Coil.
L208H	19A130650P1	Coil.
L209	19A129773G1	Coil.
L210LL	7488079P18	Choke, RF: 15.0 µh ±10%, 1.20 ohms DC res max; sim to Jeffers 4421-8K.
L210L	7488079P13	Choke, RF: 5.60 µh ±10%, 0.30 ohms DC res max; sim to Jeffers 4421-4K.
L210M	7488079P13	Choke, RF: 5.60 µh ±10%, 0.30 ohms DC res max; sim to Jeffers 4421-4K.
L210H	7488079P13	Choke, RF: 5.60 µh ±10%, 0.30 ohms DC res max; sim to Jeffers 4421-4K.
L211	19B219457P6	Coil.
L212	19A129773G1	Coil.

SYMBOL	GE PART NO.	DESCRIPTION
Q201	19A134237P1	----- TRANSISTORS ----- Silicon, NPN.
Q202	19A134164P2	Silicon, NPN; sim to Type 2N5945.
Q203LL*	19A134171P4	Silicon, NPN. In REV H & earlier: 19A134171P2 Silicon, NPN, UHF Amplifier: 35 w, 12.5 volts.
Q203L	19A134239P1	Silicon, NPN.
Q203M	19A134239P1	Silicon, NPN.
Q203H	19A134239P1	Silicon, NPN.
Q204	19A134242P1	Silicon, NPN.
R201	3R152P102J	----- RESISTORS ----- Composition: 1K ohms ±5%, 1/4 w.
R202	3R152P304J	Composition: 300K ohms ±5%, 1/4 w.
R203*	7147161P13	Composition: 4.7 ohms ±5%, 1/2 w. Deleted by REV C. Added by REV D.
R204*	3R77P270J	Composition: 27 ohms ±5%, 1/2 w. In REV B & earlier: 3R77P220J Composition: 22 ohms ±5%, 1/2 w.
R205	3R152P220J	Composition: 22 ohms ±5%, 1/4 w.
R206	3R77P100J	Composition: 10 ohms ±5%, 1/2 w.
R207	3R152P680J	Composition: 68 ohms ±5%, 1/4 w.
R208	3R77P100J	Composition: 10 ohms ±5%, 1/2 w.
R209	3R77P561J	Composition: 560 ohms ±5%, 1/4 w.
R210 thru R212	19C320212P1	Shunt resistor.
R213	19A116559P102	Variable, cermet: 5K ohms ±20%, .5 w; sim to CTS Series 360.
R214	3R77P100J	Composition: 10 ohms ±5%, 1/2 w.
R215	3R152P270J	Composition: 27 ohms ±5%, 1/4 w.
R216*	3R77P100J	Composition: 10 ohms ±5%, 1/2 w. Added to G6 by REV F.
T201 thru T205	19A130446G1	----- TRANSFORMERS ----- Coil.
U201	19D423127G1	----- INTEGRATED CIRCUITS ----- Power Control.
VR201	4036887P1	----- VOLTAGE REGULATORS ----- Zener: 500 mW, 2.3 v. nom.
VR202	4036887P5	Zener: 500 mW, 5.4 v. nom.
W201 thru W205		----- CABLES ----- (Part of printed board 19D423005P1).
W206	19A129571P2	Strap.
W209	19B226733G1	Jumper.
W210	19B226734G1	Jumper.
C4290LL	19A700014P4	LOW PASS FILTER 19C327024G1 406-450 MHz (LL) 19C327024G2 450-512 MHz (H) 19C327024G7 406-450 MHz (LL) DUPLEX 19C327024G8 450-512 MHz (H) DUPLEX (Added to 19D424895 by REV A)
C4290H	19A116952P9	----- CAPACITORS ----- Teflon/Mica: 10 pf ±5%, 250 VDCW; sim to Underwood Type J1HJ.
C4291LL	19A116952P20	Metallized teflon: 20 pf ±0.5 pf, 250 VDCW.

SYMBOL	GE PART NO.	DESCRIPTION
C4291H	19A116952P18	Metallized teflon: 18 pf ±0.5 pf, 250 VDCW.
C4292LL	19A116952P13	Metallized teflon: 13 pf ±0.5 pf, 250 VDCW.
C4292H	19A116952P12	Metallized teflon: 12 pf ±0.5 pf, 250 VDCW.
C4293	19A700015P37	Teflon/Mica: 220 pf ±5%, 250 VDCW.
L4291LL	19B226709G2	----- INDUCTORS ----- Jumper. (Includes L4292LL).
L4291H	19B226709G1	Jumper. (Includes L4294H).
L4292LL		(Part of L4291LL).
L4292H		(Part of L4291H).
J202 and J203	19A130924G1	----- JACKS AND RECEPTACLES ----- Connector, receptacle: coaxial, jack type; sim to Cinch 14H11613.
J206 and J207	19A134263P2	Contact, electrical: sim to Selectro 229-1071.
J208	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
K201	19B209558P1	----- RELAYS ----- Hermetic sealed: 180 to 341 ohms coil res, 2 form C contacts, 8.0 to 16.3 VDC; sim to GE 3SAV1760A2.
W4280 thru W4283		----- CABLES ----- (Part of printed board 19D423812P1).
W4284	19A130607G3	Cable: approx .7 of an inch.
C4280H	19A116952P9	Metallized teflon: 9 pf ±0.5 pf, 250 VDCW.
C4281H	19A116952P18	Metallized teflon: 18 pf ±0.5 pf, 250 VDCW.
C4282H	19A116952P12	Metallized teflon: 12 pf ±0.5 pf, 250 VDCW.
C4283H	19A700015P37	Teflon/Mica: 220 pf ±5%, 250 VDCW.
L4281 and L4282	19B226709G1	----- INDUCTORS ----- Jumper.
J202 and J203	19A130924G1	----- JACKS AND RECEPTACLES ----- Connector, receptacle: coaxial, jack type; sim to Cinch 14H11613.
J206 and J207		(Part of K201).
J208	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
K201	19A116722P1	Hermetic sealed: 125 ohms ±20%, 1 form C contact, 9.6 to 15.8 VDC (over the temp range indicated). (Includes J206 and J207).
W4280 thru W4283		----- CABLES ----- (Part of printed board 19D423111P1).
W241	5491689P104	FRAME ASSEMBLY 19D417526G3
		----- CABLES ----- Cable, RF: approx 3-5/8 inches long.

SYMBOL	GE PART NO.	DESCRIPTION
5492178P2		----- MISCELLANEOUS ----- Washer, spring tension: sim to Wallace Barnes 375-20. (Used with Q202).
19A130465P1		Spacer. (Used with Q202).
N207P15C6		Nut, hex: No. 8-32. (Used with Q202).
N44P9010C6		Machine screw: No. 4-40 x 5/8. (Used with Q203).
19A134016P1		Insulator, bushing. (Used with Q215).
19A116023P1		Insulator, plate. (Used with Q215).
N80P13024C6		Machine screw, Phillips head: No. 6-32 x 1-1/2. (Secures Filter Assembly).
19B201074P306		Tap screw, Phillips POZIDRIV®: No. 6-32 x 3/8. (Secures G4214).
19C321441P1		Insulator. (Located under 40 Watt Module).
4036555P1		Insulator, washer: nylon. (Used with Q201).
7141225P2		Hex nut: No. 4-40. (Secures Q215).
N402P35C6		Washer, steel: No. 4. (Secures Q215).
N80P9005C6		Machine screw: No. 4-40 x 5/16. (Secures Q215).
19B201074P308		Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/2. (Secures Filter Board).
7150186P115		Spacer. (Located at junction of W221).
19B219404G1		Filter web.
19B201074P312		Tap screw, Phillips POZIDRIV®: No. 6-32 x 3/4. (Secures W221 to spacer).
19B226212G1		Heat sink. (Center sections- Quantity 3).
19B226212G3		Heat sink. (Caution nameplate end- Quantity 1).
19D417513G1		Cover, Heat Sink Assembly.
7139898P3		Hex nut: No. 1/4-28. (Secures C297).
19B201074P204		Tap screw, Phillips POZIDRIV®: No. 4-40 x 1/4. (Secures W241).

PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

- REV. A - PA Assembly 19D424895G5-G8, G22-G25
To incorporate new low-pass filter. Deleted 19C321424. Added 19C327024.
- REV. A - 40 Watt Module 19C321347G5-G8
To improve power output at cold temperatures. Added CR204 & CR205.
- REV. B - 40 Watt Module 19C321347G5-G8
To improve operation.
In 19C321347G5: deleted C213 and Changed C252LLB.
In 19C321347G6: deleted C233L, C257L and added C252LB.
In 19C321347G7: deleted C257M and added C252MB.
In 19C321347G8: deleted C233H, C257H and added C252HB.
- REV. C - 40 Watt Module 19C321347G5-G8
To improve operation. Deleted C209 and R203. Changed R204.
- REV. D - 40 Watt Module 19C321347G5
To improve operation. Added C209 and R203.
- REV. E - 40 Watt Module 19C321347G5
To improve station operation. Added C213.
- REV. D - 40 Watt Module 19C321347G6-G8
To improve operation. Changed C206.
- REV. F - 40 Watt Module 19C321347G5
To improve operation. Changed C206.
- REV. E - 40 Watt Module 19C321347G7, G8
To improve RF output & efficiency. Changed C237 (Group 8) and C238 (Groups 7 & 8).
- REV. G - 40 Watt Module 19C321347G5
- REV. E - 40 Watt Module 19C321347G6
- REV. F - 40 Watt Module 19C321347G7, G8
To decrease spurious outputs. Changed C207L, M and C209. Deleted C208L, M, H. Added R203 to Groups 6, 7 and 8.
- REV. H - 40 Watt Module 19C321347G5
To increase output at 406 MHz. Changed C232LLB. Deleted C239. Added C239LLB.
- REV. J - To improve stability. Changed Q203LL.
- REV. F - 40 Watt Module 19C321347G6
To improve stability. Added R216 and C262.
- REV. G - To improve operation. Deleted C262.
- REV. A - 40 Watt Module 19C321347G9
To improve operation. Added C240LL.
- REV. B - To improve stability. Changed Q203LL.
- REV. K - 40 Watt Module 19C321347G5
- REV. H - 40 Watt Module 19C321347G6
To improve operation of power regulator circuit when used as driver for 100 Watt PA. Added C263 and C264.
- REV. J - 40 Watt Module 19C321347G6
To increase output power at low end of 450-470 MHz range. Changed C252.
- REV. G - 40 Watt Module 19C321347G7
- REV. G - 40 Watt Module 19C321347G8
- REV. C - 40 Watt Module 19C321347G9