

MAINTENANCE MANUAL 406-420 & 450-512 MHz, RF OUTPUT MODULE 19D429881G1

DESCRIPTION

The RF Output Module contains the PA/Antenna Switch Assembly for the MASTR® Executive II Vehicular Repeater and uses a single RF power transistor to provide a power output of 300 milliwatts. A solid state antenna switch is used to switch the antenna from the receiver to the power amplifier output circuit.

Supply voltage for the PA is connected through cable W215 to the System Board. C2, C3, C4 and L1 prevent RF from getting on the power input lines.

The hinged PA heat sink pivots 90° to provide access to the power amplifier/antenna switch board and low pass filter.

CIRCUIT ANALYSIS

The exciter output is coupled through an RF cable W216 to H2. The RF is then coupled by the microstrip to the base of RF power transistor Q1. A ground on the TX ENABLE line turns Q2 on and forward biases CR1 permitting the RF output of Q1 to be coupled through cable W214 to the low pass

filter. The RF is prevented from reaching the receiver circuit due to CR2 being reversed biased. CR2 is reversed biased since Q3 is turned on by the ground on the TX ENABLE line which turns off Q4. L3 and L5 prevent RF from affecting Q2 and Q4 operation.

The PA output is coupled through the low pass filter and appears at the antenna jack J202. A 20 dB pad provides isolation between the antenna circuit and the mobile detector jack J201. Isolation is also provided by the pad between the repeater receiver and transmitter circuit and the mobile detector.

A receive signal at J202 is coupled through the low pass filter and cable W214 to the antenna switch circuit. When the transmitter is not keyed, the TX ENABLE is high. Q3 is turned off, so Q4 is turned on. With Q4 on, CR2 is forward biased and permits the receive signal to appear at P102. CR1 is reversed biased to prevent any RF from the exciter from being coupled to the receiver since Q2 will be off.

The receive signal is applied to the mobile detector circuit J201 through the 20 dB pad on the low pass filter module.

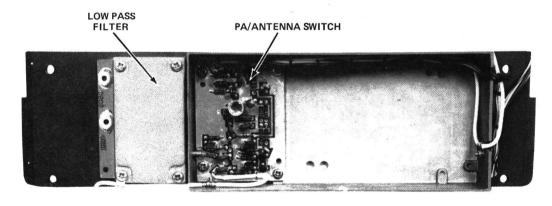
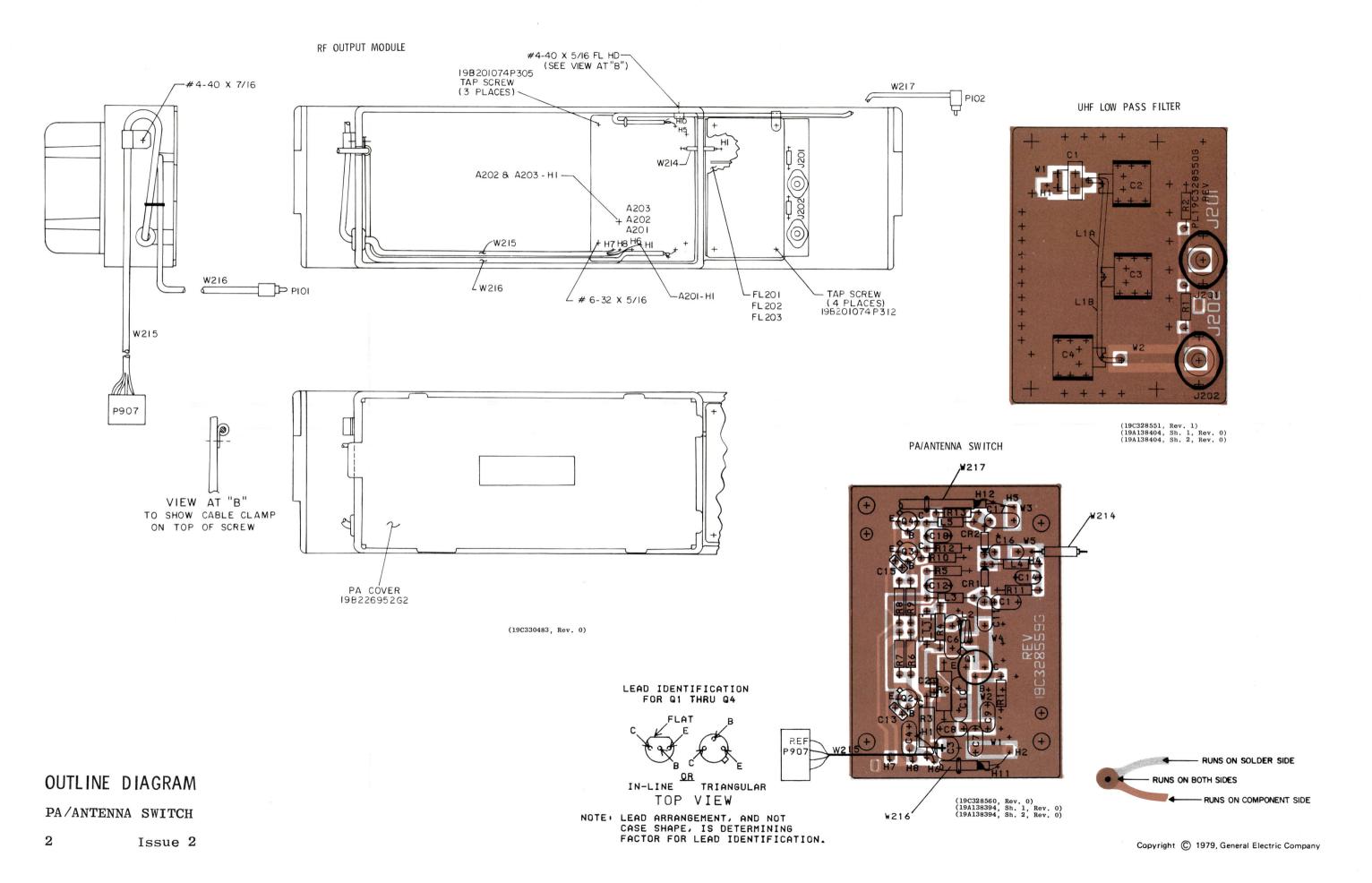
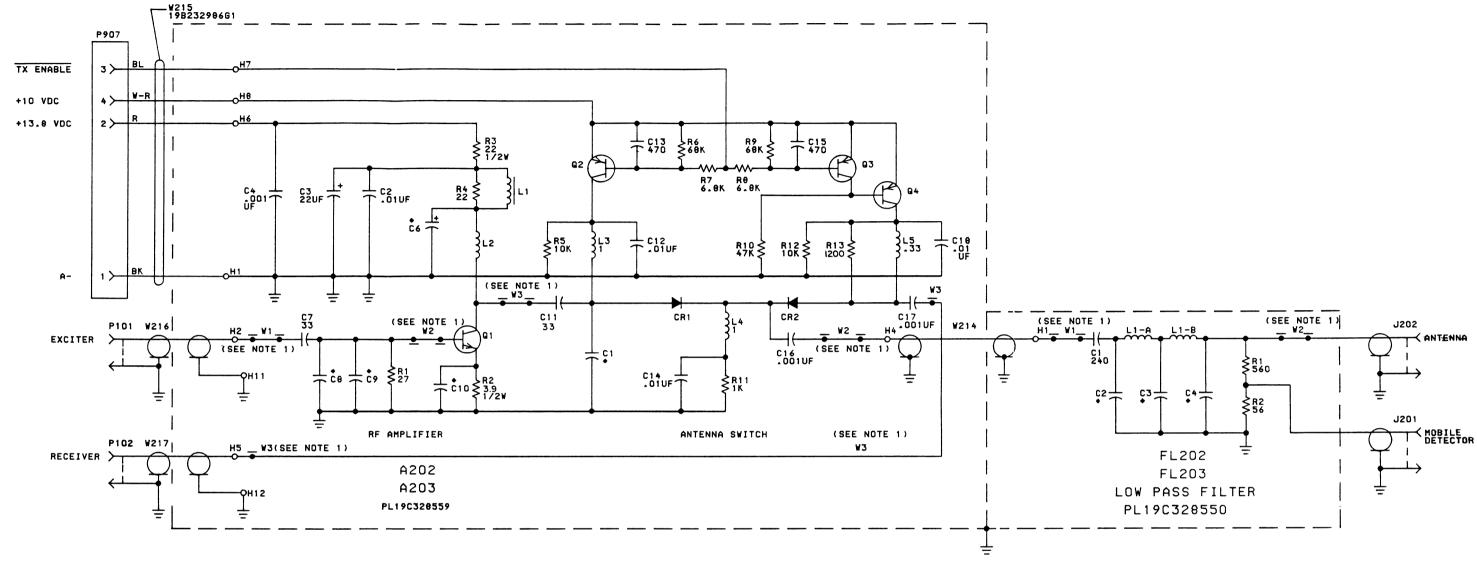


Figure 1 - PA/Antenna Switch

GENERAL ELECTRIC COMPANY • MOBILE COMMUNICATIONS DIVISION WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502 U.S.A.







NOTES:
1. MICROSTRIP (PART OF P.W. BD.)

◆COMPONENT VALUE AS FOLLO∀S:				
COMPONENT	LL 406-420 MHZ	H 450-512 MHZ		
A202 & A203-C1	4	2.2		
A202 & A203-C6	27	18		
A202 & A203-C8	8	6		
A202 & A203-C9	8	6		
A202 & A203-C10	33	27		
FL202 &				
FL203-C2	10	9		
FL202 & FL203-C3	20	18		
FL202 & FL203-C4	11	10		

MODEL NO	REV LETTER
PL19D42988162	
PL19D429881G3	
PL19C328559G1	В
PL19C328559G2	С
PL19C328550G1	
PL19C320550G2	

ALL RESISTORS ARE 1/4 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.INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH-MILLIHENRYS OR H-HENRYS.

SCHEMATIC DIAGRAM

RF OUTPUT MODULE

PARTS LIST

406-512 MHz RF OUTPUT MODULE 19D429881G2 406-420 MHz 19D429881G3 450-512 MHz ISSUE 3

Special Special Tantalum: 22 uF ±20%, 15 VDCW	SYMBOL	GE PART NO.	DESCRIPTION
CILL 19A116656P4JO Ceramic disc: 4 pF ±0.5 pF, 500 VDCW, temp coef 0 pPM. C2 19A116192P1 Ceramic: 0.01 uF ±20%, 50 VDCW; sim to Erie 8121 Special. C3 19A134202P6 Tantalum: 22 uF ±20%, 15 VDCW. C4 19A116655P20 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C6LL 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim to Sprague Type 118. C6H 19A700105P14 Silver mica: 18 pF ±5%, 500 VDCW; sim to Electro Motive Type DM-15. C7 19A116656P8JJI Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef -150 PPM. C8LL 19A116656P8JO Ceramic disc: 8 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9LL 19A116656P6JO Ceramic disc: 8 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9LL 19A116656P6JO Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9H 19A116656P6JO Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C10LL 7489162P13 Silver mica: 33 pF ±5%, 500 VDCW; temp coef 0 PPM. C10LL 7489162P13 Silver mica: 33 pF ±5%, 500 VDCW; temp coef 0 PPM. C10LL 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim to Sprague Type 118. C11 19A116656P3JJI Ceramic disc: 33 pF ±5%, 500 VDCW; temp coef -150 PPM. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C13 19A116192P2 Ceramic disc: 1000 pF ±20%, 50 VDCW; sim to Erie 811-A050-WSR-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C15 19A116192P2 Ceramic disc: 1000 pF ±20%, 50 VDCW; sim to Erie 811-A050-WSR-471M. C16 19A1091G1 Coil. C17 19A116925P1 Silicon, pin: 35 volt Reverse Breakdown, 400 mW. CR2 19A701237P1 Coil. (Used with G1). C01. (19ad with G2).	and		A202 19C328559G1 406-420 MHz
CH 19A134100P20 Ceramic disc: 2.2 pF ±0.1 pF, temp coef 0 ±120 pPM. C2			CAPACITORS
C2 19A116192P1 Ceramic: 0.01 uF ±20%, 50 VDCW; sim to Eric 8121 Special. C3 19A134202P6 Tantalum: 22 uF ±20%, 15 VDCW. C4 19A116655P20 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C6LL 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim to Sprague Type 118. C6H 19A700105P14 Silver mica: 18 pF ±5%, 500 VDCW; sim to Electro Motive Type DM-15. C7 19A116656P3J1 Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef -150 PPM. C8LL 19A116656P8J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9LL 19A116656P8J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9LL 19A116656P8J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9H 19A116656P8J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C10LL 7489162P15 Silver mica: 33 pF ±5%, 500 VDCW; temp coef 0 PPM. C10LL 7489162P13 Silver mica: 33 pF ±5%, 500 VDCW; sim to Sprague Type 118. C10 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW; temp coef -150 PPM. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C13 19A116192P2 Ceramic disc: 33 pF ±5%, 500 VDCW; sim to Eric Sil-A050-W5R-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C15 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Eric Sil-A050-W5R-471M. C16 19A116655P20 RMC Type JF Discap. C17 C18 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C18 19A1091G1 Coil. C19 19A701091G1 Coil. C1 19A701091G1 Coil. (Used with G1). C2 19A701037P1 Coil. (Used with G1). C3 19A700024P13 Coil. (Used with G2). C3 19A700024P13 Coil., RF: .33 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K.	C1LL	19A116656P4J0	Ceramic disc: 4 pF ±0.5 pF, 500 VDCW, temp coef 0 PPM.
Special Spec	C1H	19A134100P20	
Ceramic disc: 1000 pF ±10%, 1000 vDCW; sim to RMC Type JP Discap. CGLL 7489162P13 Silver mica: 18 pF ±5%, 500 vDCW; sim to Electro Motive Type 118. C6H 19A700105P14 Silver mica: 18 pF ±5%, 500 vDCW; sim to Electro Motive Type DM-15. C7 19A116656P33J1 Ceramic disc: 8 pF ±0.5 pF, 500 vDCW, temp coef -150 PPM. C8LL 19A116656P8J0 Ceramic disc: 8 pF ±0.5 pF, 500 vDCW; temp coef 0 PPM. C9LL 19A116656P8J0 Ceramic disc: 8 pF ±0.5 pF, 500 vDCW; temp coef 0 PPM. C9LL 19A116656P8J0 Ceramic disc: 8 pF ±0.5 pF, 500 vDCW; temp coef 0 PPM. C9H 19A116656P6J0 Ceramic disc: 8 pF ±0.5 pF, 500 vDCW; temp coef 0 PPM. C10LL 7489162P15 Silver mica: 33 pF ±5%, 500 vDCW; temp coef 0 PPM. C10H 7489162P13 Silver mica: 27 pF ±5%, 500 vDCW; sim to Sprague Type 118. C11 19A116656P3J1 Ceramic disc: 33 pF ±5%, 500 vDCW; temp coef -150 PPM. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 vDCW. C13 19A116192P2 Ceramic: 470 pF ±20%, 50 vDCW; sim to Erie 811-A050-w5R-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 vDCW. C15 19A116192P2 Ceramic: 470 pF ±20%, 50 vDCW; sim to Erie 811-A050-w5R-471M. C16 19A106155P20 Ceramic disc: 1000 pF ±10%, 1000 vDCW; sim to RMC Type JF Discap. C17 19A1091G1 Coil. C18 19A700005P7 Polyester: 0.01 uF ±10%, 50 vDCW. C19 19A1091G1 Coil. C19 19A701091G1 Coil. (Used with G1). C2 19A7023P11 Coil. (Used with G1). C3 19A700024P13 Coil, RF: .33 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K.	C2	19A116192P1	
### C Type JF Discap. Silver mica: 27 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C6H	СЗ	19A134202P6	Tantalum: 22 uF +20%, 15 VDCW.
C6LL 7489162P13	C4	19A116655P20	Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap.
Motive Type DM-15.	C6LL	7489162P13	Silver mica: 27 pF +5%, 500 VDCW; sim. to Sprague
-150 PPM. CRIL 19A116656P8J0 Ceramic disc: 8 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. CRIL 19A116656P6J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW, temp coef 0 PPM. CPLL 19A116656P8J0 Ceramic disc: 8 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. CPH 19A116656P6J0 Ceramic disc: 8 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. CRIC 19A116656P6J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. CRIC 19A116656P6J0 Ceramic disc: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118. CRIC 19A116656P3JJ1 Ceramic disc: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118. CRIC 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. CRIC 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. CRIC 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. CRIC 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. CRIC 19A116192P2 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. CRIC 19A116925P1 Silicon, pin: 35 volt Reverse Breakdown, 400 mW. CRIC 19A116925P1 Silicon, pin: 35 volt Reverse Breakdown, 400 mW. CRIC 19A116925P1 Coil. (Used with GI). CRIC 19A1129774P1 Coil. (Used with GI). CRIC 19A701237P1 Coil. (Used with GI). CRIC 19A701237P1 Coil. (Used with GI). CRIC 19A701237P1 Coil. (Used with GI). CRIC 19A70024P13 Coil. (Used with GI). CRIC 29A70024P13 Coil. (Used with	С6Н	19A700105P14	
C8H 19A116656P6J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW, temp coef 0 PPM. C9LL 19A116656P8J0 Ceramic disc: 8 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C9H 19A116656P6J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW; temp coef 0 PPM. C10LL 7489162P15 Silver mica: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C10H 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C11 19A116656P33J1 Ceramic disc: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C13 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C15 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. C16 19A116655P20 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C17 C18 19A70005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C19 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C19 C19 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C19 C19 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C19 C19 C10 USed with G1). C10 C11 C11 (Used with G2). C2 C2 C2 C2 C31, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Useffers 4426-6K. C2 C31, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Useffers 4426-6K.	C7	19A116656P33J1	Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef
C9LL 19A116656P8JO	C8LL	19A116656P8J0	
C9H 19A116656P6J0 Ceramic disc: 6 pF ±0.5 pF, 500 VDCW, temp coef 0 PPM. C10LL 7489162P15 Silver mica: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C10H 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C11 19A116656P33J1 Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef -150 PPM. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C13 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C15 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. C16 19A116655P20 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C18 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C19 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C10 19A701091G1 Coil. C11 19A701091G1 Coil. (Used with G1). C12 19A701237P1 Coil. (Used with G2). C13 19A700024P13 Coil, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K. C15 19B209420P107 Coil, RF: .33 uH ±10%, .22 ohms DC res max; sim	С8Н	19A116656P6J0	Ceramic disc: 6 pF ±0.5 pF, 500 VDCW, temp coef 0 PPM.
C10LL 7489162P15 Silver mica: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C10H 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C11 19A116656P33J1 Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef -150 PPM. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C13 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C15 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-W5R-471M. C16 19A116655P20 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C18 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. CR1 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. CR2 19A116925P1 Silicon, pin: 35 volt Reverse Breakdown, 400 mW. CR1 19A701091G1 Coil. L2 19A701237P1 Coil. (Used with G1). L2 19A701237P1 Coil. (Used with G2). L3 19A700024P13 Coil, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K.	C9LL	19A116656P8J0	
Type 118. C10H 7489162P13 Silver mica: 27 pF ±5%, 500 VDCW; sim. to Sprague Type 118. C11 19A116656P33J1 Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef -150 PPM. C12 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C13 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-w5R-471M. C14 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. C15 19A116192P2 Ceramic: 470 pF ±20%, 50 VDCW; sim to Erie 811-A050-w5R-471M. C16 19A11692P2 Ceramic disc: 1000 pF ±10%, 1000 VDCW; sim to RMC Type JF Discap. C18 19A700005P7 Polyester: 0.01 uF ±10%, 50 VDCW. DIODES AND RECTIFIERS CR1 and CR2 Silicon, pin: 35 volt Reverse Breakdown, 400 mW. C19A701091G1 Coil. C19A701091G1 Coil. (Used with G1). C2 19A701237P1 Coil. (Used with G2). C3 19A700024P13 Coil, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K.	С9Н	19A116656P6J0	
Type 118. C11	C10LL	7489162P15	Silver mica: 33 pF ±5%, 500 VDCW; sim. to Sprague Type 118.
-150 PPM. Polyester: 0.01 uF ±10%, 50 VDCW. C13	С10Н	7489162P13	Silver mica: 27 pF ±5%, 500 VDCW; sim. to Sprague Type 118.
C13	C11	19A116656P33J1	Ceramic disc: 33 pF ±5%, 500 VDCW, temp coef -150 PPM.
811-A050-W5R-471M. C14	C12	19A700005P7	Polyester: 0.01 uF ±10%, 50 VDCW.
C15	C13	19A116192P2	Ceramic: 470 pF +20%, 50 VDCW; sim to Erie 811-A050-W5R-471M.
811-A050-W5R-471M. C16 and C17 C18 19A700005P7 Polyester: 0.01 uF ±10%, 1000 VDCW; sim to RMC Type JF Discap. CR1 and CR2 19A116925P1 Silicon, pin: 35 volt Reverse Breakdown, 400 mW. CR2 L1 19A701091G1 Coil. L2 19A701091G1 Coil. (Used with G1). L2 19A701237P1 Coil. (Used with G2). L3 19A700024P13 and L4 L5 19B209420P107 Coil, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K.	C14	19A700005P7	Polyester: 0.01 uF ±10%, 50 VDCW.
C16 and C17 C18	C15	19A116192P2	
C18	and	19A116655P20	Ceramic disc: 1000 pF +10%, 1000 VDCW; sim to
CR1 and CR2		19A700005P7	Polyester: 0.01 uF ±10%, 50 VDCW.
CR1 and CR2			DIODES AND RECTIFIERS
L1 19A701091G1 Coil. L2 19A129774P1 Coil. (Used with G1). L2 19A701237P1 Coil. (Used with G2). L3 19A700024P13 Coil, RF: 1.0 uH +10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K. L5 19B209420P107 Coil, RF: .33 uH ±10%, .22 ohms DC res max; sim	and	19A116925P1	Silicon, pin: 35 volt Reverse Breakdown, 400 mW.
L2 19A129774P1 Coil. (Used with G1). L2 19A701237P1 Coil. (Used with G2). L3 19A700024P13 Coil, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K. L5 19B209420P107 Coil, RF: .33 uH ±10%, .22 ohms DC res max; sim			
L2 19A701237P1 Coil. (Used with G2). L3 19A700024P13 Coil, RF: 1.0 uH ±10%, 0.74 ohms DC res max; sim to Jeffers 4426-6K. L5 19B209420P107 Coil, RF: .33 uH ±10%, .22 ohms DC res max; sim			
L3 and L4			
and L4 to Jeffers 4426-6K. L5 19B209420P107 Coil, RF: .33 uH ±10%, .22 ohms DC res max; sim			1
L5 19B209420P107 Coil, RF: .33 uH +10%, .22 ohms DC res max; sim to Jeffers 4416-7K.	and	19A700024P13	
•	L5	19B209420P107	Coil, RF: .33 uH ±10%, .22 ohms DC res max; sim to Jeffers 4416-7K.
1 1			
		[1

SYMBOL	GE PART NO.	DESCRIPTION	SYM
P907		(Part of W215).	
01	10412492771	TRANSISTORS	
Q1 Q2 thru Q4	19A134237P1 19A700022P1	Silicon, NPN. Silicon, PNP; sim to Type 2N3906.	
		- · RESISTORS	
R1	19A700106P25	Composition: 27 ohms ±5%, 1/4 w.	
R2	19A700113P5	Composition: 3.9 ohms ±5%, 1/2 w.	
R3	19A700113P23	Composition: 22 ohms ±5%, 1/2 w.	
R4	19A700106P23	Composition: 22 ohms ±5%, 1/4 w.	
R5	19A700106P87	Composition: 10K ohms ±5%, 1/4 w.	
R6	19A700106P107	Composition: 68K ohms ±5%, 1/4 w.	
R7 and R8	19A700106P83	Composition: 6.8K ohms ±5%, 1/4 w.	
R9	19A700106P107	Composition: 68K ohms ±5%, 1/4 w.	
R10	19A700106P103	Composition: 47K ohms ±5%, 1/4 w.	
R11	19A700106P63	Composition: 1K ohms ±5%, 1/4 w.	
R12	19A700106P87	Composition: 10K ohms ±5%, 1/4 w.	
R13	19A700106P65	Composition: 1.2K ohms ±5%, 1/4 w.	
W1		(Part of 19C328558P1 printed board).	
thru W5			
W214	19A130607G1	Cable, RF: approx 1 foot long.	Ì
W215	19B232986G1	Cable. (Includes P907).	
W216	19A130909G3	Cable, RF: approx 15-3/4 inches long.	
W217	19A130909G4	Coil, RF: approx 22-3/4 inches long.	
		FILTERS	
FL202 and FL203		LOW BAND FILTER 19C328550G1 406-420 MHz 19C328550G2 450-512 MHz	
		CAPACITORS	l
C1	19A700015P38	Teflon/Mica: 240 pF ±5%, 250 VDCW.	
C2LL	19A700014P4	Metallized teflon: 10 pF ±5%, 250 VDCW.	į
С2Н	19A700131P9	Metallized teflon: 9 pF ±0.5 pF, 250 VDCW.	
C3LL	19A700131P20	Metallized teflon: 20 pF ±0.5 pF, 100 VDCW.	Ì
СЗН	19A700131P18	Metallized teflon: 18 pF ±0.5 pF, 250 VDCW.	
C4LL	19A700131P11	Teflon/Mica; 11 pF ±0.5 pF, 250 VDCW.	
C4H	19700014P4	Metallized teflon: 10 pF ±5%, 250 VDCW.	l
		JACKS AND RECEPTACLES	
J201 and J202	19A700049P2	Connector, receptacle; 500 VDCW maximum; sim to NTTF-1058.	
		INDUCTORS	
L1LL	19B227084P1	Jumper.	1
L1H	19B227130G1	Jumper.	
			ļ
		RESISTORS]
R1	19A700106P57	Composition: 560 ohms ±5%, 1/4 w.	1
R2	19A700106P33	Composition: 56 ohms ±5%, 1/4 w.	
		1	ļ

SYMBOL	GE PART NO.	DESCRIPTION
		MISCELLANEOUS
	19C321591G9	Heat sink.
	19D416275P3	Filter casting. (FL202 & FL203).
	19B226952G2	P.A. Cover.
	19B201074P305	Tap screw, Phillips POZIDRIV: No. 6-32 x 5/16. (Secures A202 & A203).
	19B201074P320 19A701863P4	Tap screw, Phillips POZIDRIV: No. 6-32 x 1-1/4. (Secures FL202 & FL203). Cable clip: sim to Weckesser Co. 3/16-4-128.
	19A701332P4	(Secures W215). Insulator, washer: nylon. (Used with Q1 on A202
	19A701887P1	& A203). Heat sink. (Used with Q1 on A202 & A203).
	19A700114P1	Terminal, stud. (Used with C2-C4).
	19J706152P5	Retainer strap: sim to Panduit Corp. SST-1. (Secures W216).
	,	
1		
1		

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. Pefer to the Parts List for descriptions of parts affected by these revisions.

REV. A - AMPLIFIER/ANTENNA SWITCH 19C328559G1
REV. B - AMPLIFIER/ANTENNA SWITCH 19C328559G2

To improve receiver operation at high end of the frequency band. Changed R13 to 1200 ohms.

R13 was: 19A700106P65 - Composition: 560 ohms ±5%, 1/4 w.

REV. B - AMPLIFIER ANTENNA SWITCH 19C328559G1 REV. C - AMPLIFIER ANTENNA SWITCH 19C328559G2

To increase output power across the frequency band. Changed C11 and R2.

C11 was: 19A116655P20 - Ceramic disc: 1000 pF ±10%, 100 VDCW; sim to RMC Type JF Discap.

R2 was: 19A700113P7 - Composition: 4.7 ohms ±5%, 1/2 w.