

**MAINTENANCE MANUAL****25—50 MHz RF ASSEMBLY 19D416478G1-G4  
AND  
MIXER/IF BOARD 19C320094G1-G4****TABLE OF CONTENTS**

DESCRIPTION .....	Page 1
CIRCUIT ANALYSIS .....	Page 1
OUTLINE DIAGRAM .....	Page 3
SCHEMATIC DIAGRAMS	
RF Assembly .....	Page 4
Mixer/IF Board .....	Page 5
PARTS LIST & PRODUCTION CHANGES .....	Page 6

**DESCRIPTION**

The RF Assembly uses two tuned helical resonators and four L-C tuned circuits to provide front end selectivity.

The Mixer/IF board (MIF) uses the RF input from the RF Assembly and the mixer injection frequency from the oscillator/multiplier board to generate the IF frequency.

to the "source" terminal. This method of operation provides a low impedance input to the amplifier. The amplified output is taken from the "drain" terminal and coupled through four L-C tuned circuits (L1-C7, L2-C8, L3-C9 and L4-C10) to the mixer. The four tuned circuits and the two helical resonators provide the receiver front end selectivity.

**MIXER-IF****CIRCUIT ANALYSIS****RF ASSEMBLY****ANTENNA INPUT A301**

An RF signal from the antenna is applied to A301 which provides an AC ground between vehicle ground and receiver A-. Resistor R1 prevents a static charge from building up on the vehicle antenna. The output of A301 is coupled through two high-Q helical resonators (L301, C301 and L302, C302) to the RF amplifier. The coils are tuned to the incoming frequency by C301 and C302. Lamp DS1 protects the RF amplifier stage against an excessive RF input.

**RF AMPLIFIER A302**

RF Amplifier Q1 is a Field-Effect Transistor (FET). Q1 operates as a grounded gate amplifier, with the RF input applied

**MIXER & CRYSTAL FILTER**

The mixer uses a FET (Q501) as the active device. The FET mixer provides a high input impedance, high power gain, and an output relatively free of harmonics (low in intermodulation products).

In the mixer stage, RF from the RF amplifier stage is coupled through tank circuit L501 and C502 to the gate of mixer Q501. The tank circuit provides increased selectivity and impedance matching between the RF Assembly and the gate of mixer Q501. Injection voltage from the multiplier-selectivity stages is inductively coupled through L502 to the source of the mixer. The mixer IF output signal is coupled from the drain of Q501 through a tuned circuit (L504 and C511) which matches the mixer output to the input of the four-pole monolithic crystal filter. The highly-selective crystal filter (FL501 and FL502) provides the first portion of the receiver IF selectivity. The output of the filter is coupled

through impedance matching network Z502 (L520 and C523) to the IF amplifier.

#### IF AMPLIFIER

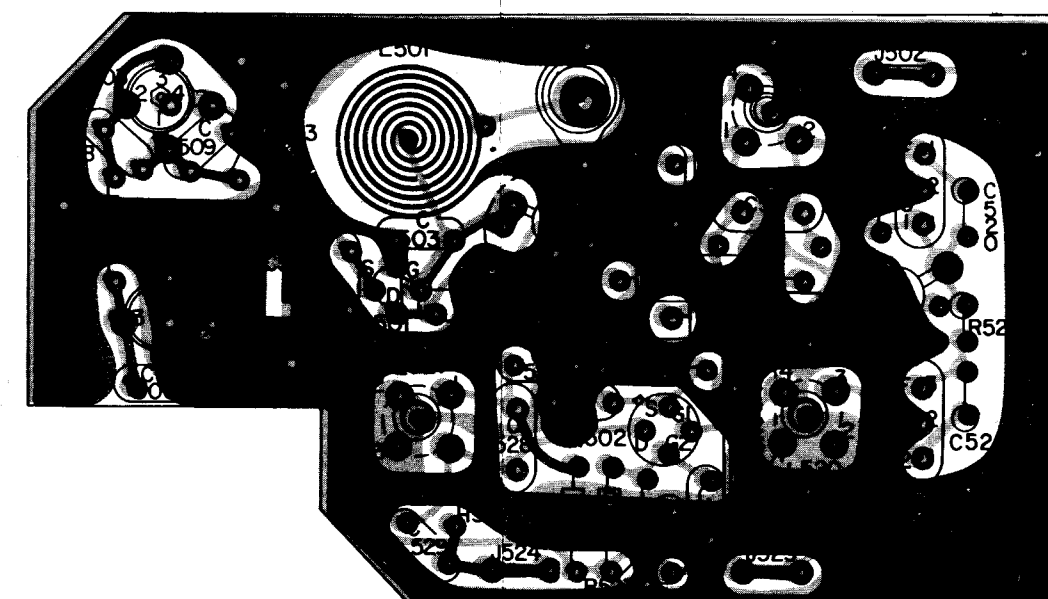
IF amplifier Q502 is a dual-gate FET. The filter output is applied to Gate 1 of the amplifier, and the output is taken from the drain. The biasing on Gate 2 and the drain load determines the gain of the stage. The amplifier provides approximately 20 dB of IF gain. The output of Q502 is coupled through a network (L521 and

C528) that matches the amplifier output to the crystal filter on the next IF stage. The output of the MIF board is coupled to the next IF stage through feed-through capacitor C305.

Supply voltage for the RF amplifier and MIF board is supplied through feed-through capacitor C306. SERVICE NOTE: Variable capacitor C521 does not require adjustment when performing normal alignment. If the 4-pole monolithic crystal filter is replaced, then adjustment of C521 is necessary for optimum IF response.

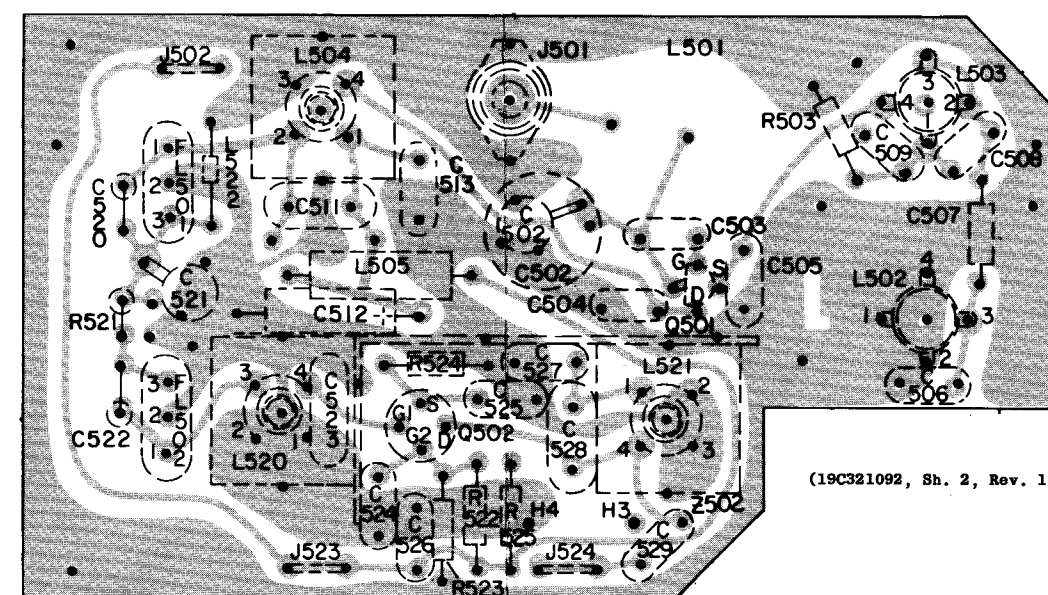
## MIXER/IF BOARD

**COMPONENT SIDE**



(19C321092, Sh. 2, Rev. 1)  
(19C321092, Sh. 3, Rev. 1)

**SOLDER SIDE**



(19C321092, Sh. 2, Rev. 1)

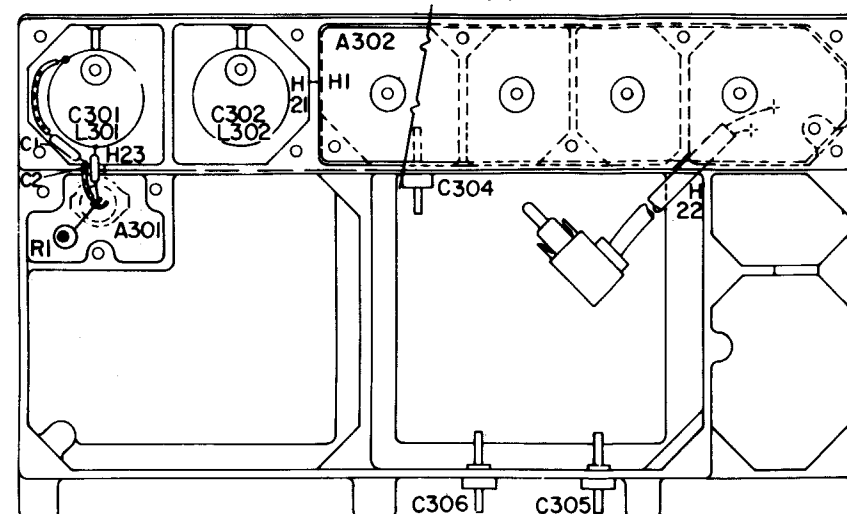
## OUTLINE DIAGRAM

## 25-50 MHz RF ASSEMBLY AND MIXER/IF BOARD

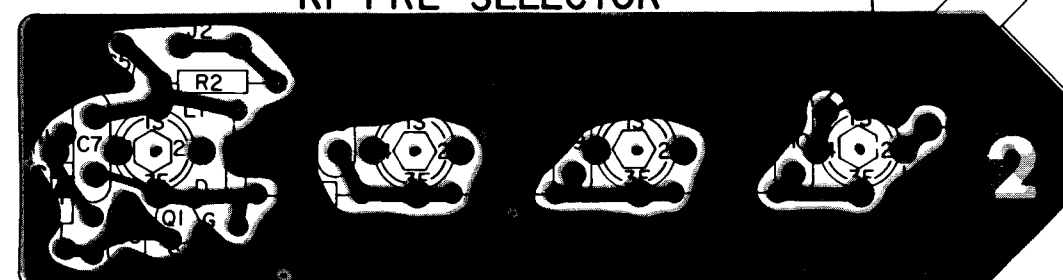
## Issue 3

3

**RF ASSEMBLY  
BOTTOM VIEW**

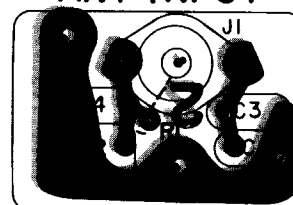


A302  
RF PRE-SELECTOR



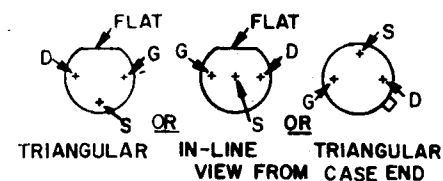
(19B219444, Sh. 1, Rev. 2)  
(19B219444, Sh. 2, Rev. 2)

A301  
ANT INPUT



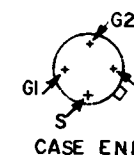
(19B219449, Sh. 1, Rev. 2)  
(19B219449, Sh. 2, Rev. 2)

LEAD IDENTIFICATION  
FOR Q1 & Q501



NOTE: LEAD ARRANGEMENT, AND NOT CASE SHAPE, IS DETERMINING FACTOR FOR LEAD IDENTIFICATION.

LEAD IDENTIFICATION  
FOR Q502

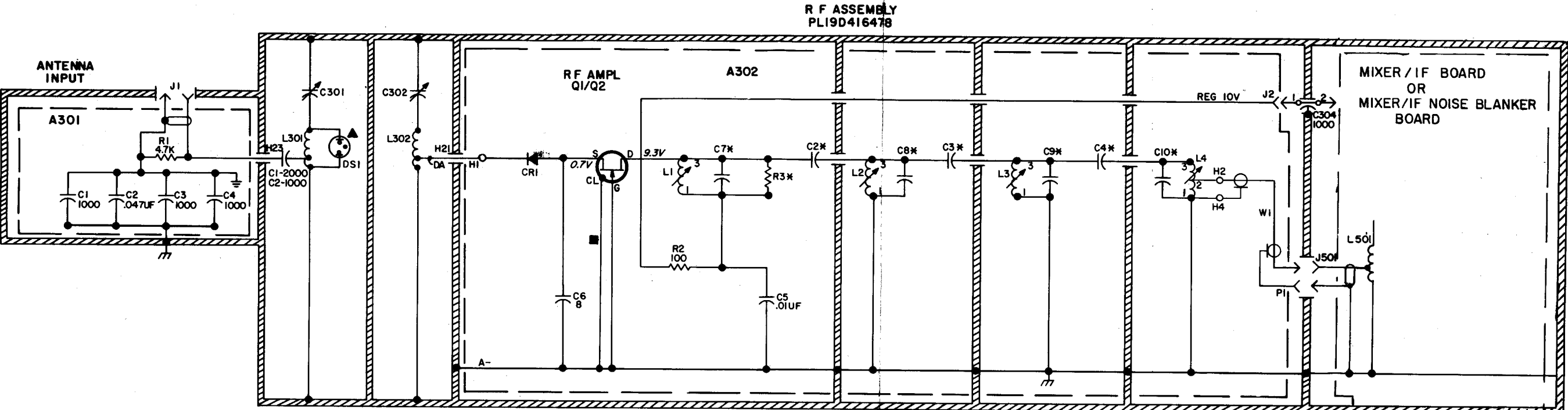


(19D423628, Rev. 2)

— RUNS ON SOLDER SIDE

— RUNS ON BOTH SIDES

— RUNS ON COMPONENT SIDE



* COMPONENT VALUE TABLE				
COMP DESIG	LL	L	M	H
RF FREQ	25-30 MHZ	30-36 MHZ	36-42 MHZ	42-50 MHZ
IF FREQ	11.2 MHZ	9.4 MHZ	11.2 MHZ	9.4 MHZ
C2	1.0	.75	.68	.82
C3	1.0	.75	.68	.82
C4	1.0	.75	.68	.82
C7	51	39	30	18
C8	51	39	30	18
C9	51	39	30	18
C10	56	39	30	18
R3		30K	24K	6.2K

MID BAND		
* COMPONENT VALUE TABLE		
SPLIT	ML LOW	MH HIGH
RF FREQ	66-78 MHZ	77-88 MHZ
IF FREQ	11.2 MHZ	11.2 MHZ
C2	.47	.39
C3	.56	.47
C4	1.0	.82
C7	15	10
C8	18	13
C9	18	13
C10	18	13
R3	6.8K	6.8K

19D416478G8		66-78 (ML)
19D416478G9		77-88 (MH)
19D416478G1	C	25-30 (LL)
19D416478G2	D	30-36 (L)
19D416478G3	B	36-42 (M)
19D416478G4	B	42-50 (H)
19C320073G1	B	25-30 (LL)
19C320073G2	C	30-36 (L)
19C320073G3	D	36-42 (M)
19C320073G4	B	42-50 (H)
19C320073G8		66-78 (ML)
19C320073G9		77-88 (MH)

VOLTAGE READINGS

VOLTAGE READINGS ARE TYPICAL READINGS MEASURED TO SYSTEM NEGATIVE (P903-10) WITH TEST SET MODEL 4EX3A11 OR A 20,000 OHM-PER-VOLT METER.

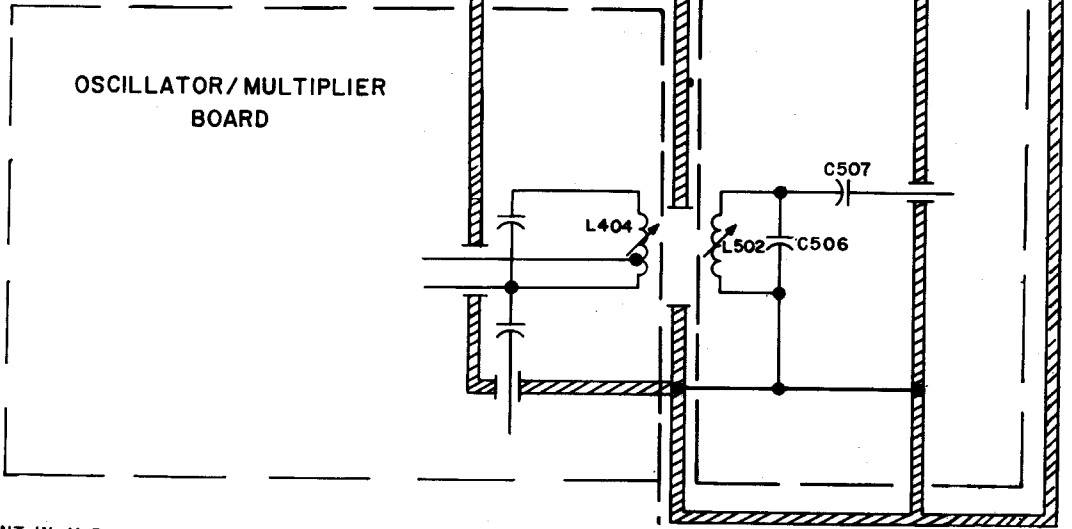
⏏ INDICATES A-

⏏ INDICATES VEHICLE GROUND

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 PICO FARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF= MICROFARADS. INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH= MILLIHENRYS OR H=HENRYS.

CPD 310A

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.



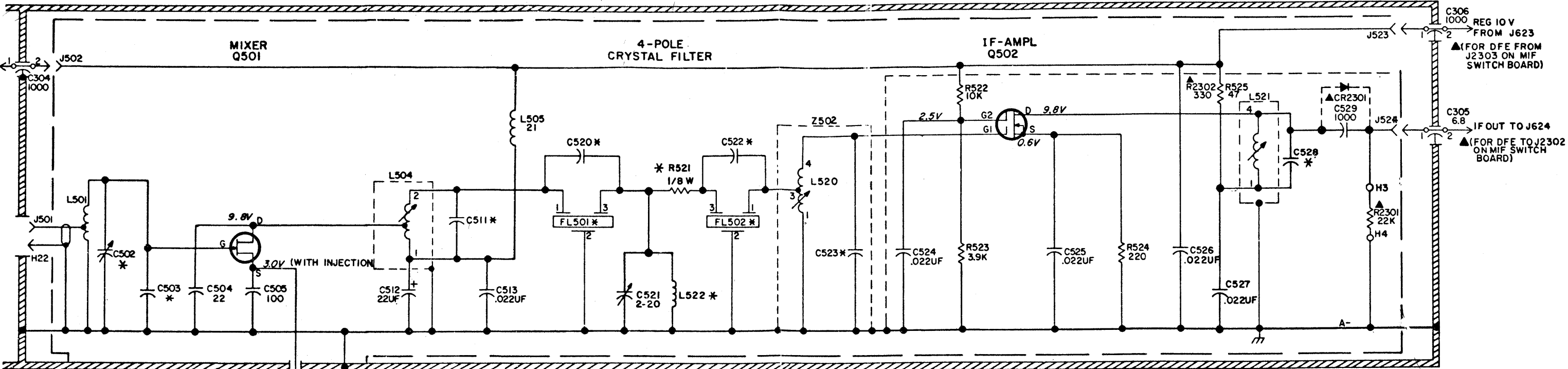
▲ NOT PRESENT IN M.B.  
■ NOT PRESENT IN L.B.

SCHEMATIC DIAGRAM

25-50 MHz RF ASSEMBLY

(19D423475, Rev. 7)

MIXER/IF BD  
PL19C320094



PART OF RF ASSEMBLY

▲ THESE COMPONENTS ARE USED TO ADAPT A STANDARD MASTER II RECEIVER TO OPERATION AS AND WITH A DUAL FRONT END. THESE COMPONENTS SHOULD BE IGNORED IN THE STANDARD RECEIVER. BOARDS IDENTIFIED BY A RED DOT HAVE BEEN MODIFIED FOR DFE OPERATION PER MOD KIT 19A129750G1 OR G2	
RECEIVER CHANNEL	D.F.E. CHANNEL
ON PL19C320094 (MIXER/IF BD)	ON PL19C320094 (MIXER/IF BD)
1. R2302 USED INSTEAD OF R524 2. CR2301 USED INSTEAD OF C529 3. R2301 ADDED BETWEEN H3 & H4	NO MODIFICATION REQUIRED
	SEE OSC/MULT BD FOR OTHER DFE CHANGES
THESE ITEMS ARE SUPPLIED IN MOD. KIT PL19A129750G1.	THESE ITEMS ARE SUPPLIED IN MOD. KIT PL19A129750G2.

	REV LETTER	FREQ RANGE (MHZ)	IF FREQ (MHZ)
MIXER/IF BD			
19C320094G1	D	25-30 (LL)	11.2
19C320094G2	D	30-36 (L)	9.4
19C320094G3	C	36-42 (M)	11.2
19C320094G4	C	42-50 (H)	9.4

* COMPONENT VALUE TABLE				
COMP DESIG	LL	L	M	H
RF FREQ	25-30 MHZ	30-36 MHZ	36-42 MHZ	42-50 MHZ
IF FREQ	11.2 MHZ	9.4 MHZ	11.2 MHZ	9.4 MHZ
C502	8-50	8-50	2-20	2-20
C503	56	39	27	15
C506	27	22	15	12
C507	1.0	.82	.68	.56
C508	27	22	15	12
C511	270	390	270	390
C520	.47	.68	.47	.68
C522	.47	.68	.47	.68
C523	91	100	91	100
C528	330	360	330	360
L522	15	18	15	18
R521	560	330	560	330
FL501	FL501LL	FL501L	FL501M	FL501H
FL502	FL502LL	FL502L	FL502M	FL502H

VOLTAGE READINGS

VOLTAGE READINGS ARE TYPICAL READINGS MEASURED TO SYSTEM NEGATIVE (P903-10) WITH TEST SET MODEL 4EX3A11 OR A 20,000 OHM-PER-VOLT METER.

⏏ INDICATES A-  
⏏ INDICATES VEHICLE GROUND

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 PICO FARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF= MICROFARADS. 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.

(19D423476, Rev. 2)

SCHEMATIC DIAGRAM

25-50 MHz MIXER/IF BOARD

Issue 2

PARTS LIST			S	GE PART NO.	DESCRIPTION	S	GE PART NO.	DESCRIPTION	S	GE PART NO.	DESCRIPTION	S	GE PART NO.	DESCRIPTION	S	GE PART NO.	DESCRIPTION
LBI-4990C			C4L*	5491601P118	Phenolic: 0.75 pf ±5%, 500 VDCW.	P1		----- PLUGS -----	L302H	19B219455G4	Coil. Includes:	C513	19A116080P3	Polyester: 0.022 µf ±20%, 50 VDCW.	L505	7488079P48	Choke, RF: 27.0 µh ±10%, 1.40 ohms DC res max; sim to Jeffers 4432-9K.
25-50 MHz RF ASSEMBLY 19D416478G1-G4 AND MIF ASSEMBLY 19C320094G1-G4			5491601P120	Phenolic: 1.0 pf ±5%, 500 VDCW.	(Part of W1).	C302	19B209159P4	Capacitor, variable, air: 1.80 to 8.3 pf, 650 v peak; sim to EF Johnson 189.	C520LL	5491601P113	Phenolic: 0.47 pf ±5%, 500 VDCW.	L520LL	5491601P117	Phenolic: 0.47 pf ±5%, 500 VDCW.	L520LL	5491601P117	(Part of Z502LL).
			C4M*	5491601P117	Phenolic: 0.68 pf ±5%, 500 VDCW.	----- TRANSISTORS -----		----- MISCELLANEOUS -----	C520L	5491601P113	Phenolic: 0.68 pf ±5%, 500 VDCW.	L520L	5491601P113	Phenolic: 0.47 pf ±5%, 500 VDCW.	L520M	5491601P117	(Part of Z502M).
			5491601P119	In REV C and earlier:	N Type, field effect.	----- RESISTORS -----	19B201074P305	Tap screw, Phillips POZIDRIV®: No. 6-32 x 5/16. (Secures A301 and A302).	C520M	5491601P113	Phenolic: 0.47 pf ±5%, 500 VDCW.	L520H	5491601P117	Phenolic: 0.68 pf ±5%, 500 VDCW.	L520H	5491601P117	(Part of Z502H).
			C4H*	5491601P119	Phenolic: 0.82 pf ±5%, 500 VDCW.	-----		-----	C521	19B209351P2	Variable: 2.5 to 20 pf, 200 VDCW, -250 +700 PPM/°C; sim to Matsushita ECV-12W20P32.	L521	19C320141G6	Coil. Includes:	L521	19C320141G6	Coil. Includes:
			5491601P120	Phenolic: 0.82 pf ±5%, 500 VDCW.	Composition: 100 ohms ±5%, 1/4 w.	R2	3R152P101J	Composition: 100 ohms ±5%, 1/4 w.	C522LL	5491601P113	Phenolic: 0.47 pf ±5%, 500 VDCW.	L521	5493185P9	Tuning slug.	L521	5493185P9	Tuning slug.
			5491601P120	In REV A and earlier:	Composition: 30K ohms ±5%, 1/4 w. Deleted by REV B. Added to G2 by REV D.	R3L*	3R152P303J	Composition: 30K ohms ±5%, 1/4 w. Deleted by REV B. Added to G2 by REV D.	C522L	5491601P117	Phenolic: 0.68 pf ±5%, 500 VDCW.	L522LL	19B209420P27	Coil, RF: 15.0 µh ±5%, 2.75 ohms DC res max; sim to Jeffers 441316-2J.	L522LL	19B209420P27	Coil, RF: 15.0 µh ±5%, 2.75 ohms DC res max; sim to Jeffers 441316-2J.
			C5	19A116080P101	Phenolic: 1.0 pf ±5%, 500 VDCW.	P3M*	3R152P243J	Composition: 24K ohms ±5%, 1/4 w. Added by REV C.	C522M	5491601P113	Phenolic: 0.47 pf ±5%, 500 VDCW.	L522L	19B209420P28	Coil, RF: 18.0 µh ±5%, 3.00 ohms DC res max; sim to Jeffers 441316-3J.	L522L	19B209420P28	Coil, RF: 18.0 µh ±5%, 3.00 ohms DC res max; sim to Jeffers 441316-3J.
			C6	19A116656P8K8	Polyester: 0.01 pf ±10%, 50 VDCW.		3R152P153J	Composition: 15K ohms ±5%, 1/4 w. Deleted by REV B.	C522H	5491601P117	Phenolic: 0.68 pf ±5%, 500 VDCW.	L522M	19B209420P27	Coil, RF: 15.0 µh ±5%, 2.75 ohms DC res max; sim to Jeffers 441316-2J.	L522M	19B209420P27	Coil, RF: 15.0 µh ±5%, 2.75 ohms DC res max; sim to Jeffers 441316-2J.
			C7LL	5496219P256	Ceramic: 8 pf ±1 pf ±10%, -80 PPM.	R3H	3R152P622J	Composition: 6.2K ohms ±5%, 1/4 w.	C523		(Part of Z502).	L522H	19B209420P28	Coil, RF: 18.0 µh ±5%, 3.00 ohms DC res max; sim to Jeffers 441316-3J.	L522H	19B209420P28	Coil, RF: 18.0 µh ±5%, 3.00 ohms DC res max; sim to Jeffers 441316-3J.
			C7L	5496219P253	Ceramic disc: 51 pf ±5%, 500 VDCW, temp coef -80 PPM.			----- CAPACITORS -----	C524 thru C527	19A116080P3	Polyester: 0.022 µf ±20%, 50 VDCW.			----- TRANSISTORS -----			----- TRANSISTORS -----
			C7M	5496219P250	Ceramic disc: 39 pf ±5%, 500 VDCW, temp coef -80 PPM.	W1	5491689P85	----- CABLES -----	C528LL	5490008P139	Silver mica: 330 pf ±10%, 500 VDCW; sim to Electro Motive Type DM-15.			N Type, field effect.			N Type, field effect.
			C7H	5496219P245	Ceramic disc: 30 pf ±5%, 500 VDCW, temp coef -80 PPM.			----- CAPACITORS -----	C528L	5490008P40	Silver mica: 360 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.			N Channel, field effect.			N Channel, field effect.
			C8LL	5496219P256	Ceramic disc: 18 pf ±5%, 500 VDCW, temp coef -80 PPM.	C301		(Part of L301).	C528M	5490008P139	Silver mica: 330 pf ±10%, 500 VDCW; sim to Electro Motive Type DM-15.	Q501	19A116154P1	----- RESISTORS -----	Q501	19A116154P1	----- RESISTORS -----
			C8L	5496219P253	Ceramic disc: 51 pf ±5%, 500 VDCW, temp coef -80 PPM.	C302		(Part of L302).	C528H	5490008P40	Silver mica: 360 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.	Q502	19A116818P1	Composition: 1.5K ohms ±10%, 1/4 w.	Q502	19A116818P1	Composition: 1.5K ohms ±10%, 1/4 w.
			C8M	5496219P253	Ceramic disc: 39 pf ±5%, 500 VDCW, temp coef -80 PPM.	C304	19B209488P2	Ceramic, feed-thru: 1000 pf +100 -0%, 500 VDCW; sim to Allen-Bradley Style FASD.	C529	19A116655P19	Ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap.	R503	3R152P152K	Composition: 560 ohms ±5%, 1/8 w.	R503	3R152P152K	Composition: 560 ohms ±5%, 1/8 w.
			C8H	5496219P250	Ceramic disc: 18 pf ±5%, 500 VDCW, temp coef -80 PPM.	C305	19B209488P1	Ceramic, feed-thru: 6.8 pf ±20%, 500 VDCW; sim to Allen-Bradley Style FASD.			----- FILTERS -----	R521LL	3R151P661J	Composition: 330 ohms ±5%, 1/8 w.	R521LL	3R151P661J	Composition: 330 ohms ±5%, 1/8 w.
			C8M	5496219P250	Ceramic disc: 30 pf ±5%, 500 VDCW, temp coef -80 PPM.	C306	19B209488P2	Ceramic, feed-thru: 1000 pf +100 -0%, 500 VDCW; sim to Allen-Bradley Style FASD.	C503LL	5490008P21	Silver mica: 58 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.	R521M	3R151P661J	Composition: 330 ohms ±5%, 1/8 w.	R521M	3R151P661J	Composition: 330 ohms ±5%, 1/8 w.
			C8H	5496219P245	Ceramic disc: 18 pf ±5%, 500 VDCW, temp coef -80 PPM.			----- INDUCTORS -----	C503L	5490008P17	Silver mica: 39 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.	R521H	3R151P661J	Composition: 330 ohms ±5%, 1/8 w.	R521H	3R151P661J	Composition: 330 ohms ±5%, 1/8 w.
			C9LL	5496219P256	Ceramic disc: 51 pf ±5%, 500 VDCW, temp coef -80 PPM.	L301LL	19B219455G1	Coil. Includes:	C503M	5490008P13	Silver mica: 27 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.	R522	3R152P103K	Composition: 10K ohms ±10%, 1/4 w.	R522	3R152P103K	Composition: 10K ohms ±10%, 1/4 w.
			C9L	5496219P253	Ceramic disc: 39 pf ±5%, 500 VDCW, temp coef -80 PPM.	C1*	5494481P13	Capacitor, ceramic disc: 2000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap.	C503H	5490008P8	Silver mica: 15 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.	R523	3R152P392K	Composition: 3.9K ohms ±10%, 1/4 w.	R523	3R152P392K	Composition: 3.9K ohms ±10%, 1/4 w.
			C9M	5496219P250	Ceramic disc: 30 pf ±5%, 500 VDCW, temp coef -80 PPM.			In 19D416478G2 of REV B and earlier:	C504	19A116656P22J0	Ceramic disc: 22 pf ±5%, 500 VDCW, temp coef 0 PPM.	R524	3R152P221K	Composition: 220 ohms ±10%, 1/4 w.	R524	3R152P221K	Composition: 220 ohms ±10%, 1/4 w.
			C9H	5496219P245	Ceramic disc: 18 pf ±5%, 500 VDCW, temp coef -80 PPM.			Capacitor, ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap.	C505	5490008P27	Silver mica: 100 pf ±5%, 500 VDCW; sim to Electro Motive Type DM-15.	R525	3R152P470K	Composition: 47 ohms ±10%, 1/4 w.	R525	3R152P470K	Composition: 47 ohms ±10%, 1/4 w.
			C10LL	5496219P257	Ceramic disc: 56 pf ±5%, 500 VDCW, temp coef -80 PPM.			In 19D416478G2 of REV B and earlier:	C506LL	19A116656P27K8	Ceramic disc: 27 pf ±10%, 500 VDCW, temp coef -80 PPM.			----- NETWORKS -----			----- NETWORKS -----
			C10L	5496219P253	Ceramic disc: 39 pf ±5%, 500 VDCW, temp coef -80 PPM.	C301	19B209159P4	Capacitor, variable, air: 1.80 to 8.3 pf, 650 v peak; sim to EF Johnson 189.	C506L	19A116656P24K8	Ceramic disc: 24 pf ±10%, 500 VDCW, temp coef -80 PPM.	FL501M	19B219573G5	Crystal, freq: Sec 1: Resonator A: 11,204000 KHz, Resonator B: 11,196000 KHz.	2502LL	19C320141G4	Coil. Includes:
			C10M	5496219P250	Ceramic disc: 30 pf ±5%, 500 VDCW, temp coef -80 PPM.	DS1	19B209067P1	Lamp, glow: 0.7 ma; sim to GE NE2ET.	C506L	19A116656P24K8	Ceramic disc: 24 pf ±10%, 500 VDCW, temp coef -80 PPM.	FL501H	19B219574G3	Crystal, freq: Sec 1: Resonator A: 11,204000 KHz, Resonator B: 11,196000 KHz.	5493185P9	5493185P9	Tuning slug.
			C10H	5496219P245	Ceramic disc: 18 pf ±5%, 500 VDCW, temp coef -80 PPM.	L301L	19B219455G1	Coil. Includes:	C506M	19A116656P15K8	Ceramic disc: 15 pf ±10%, 500 VDCW, temp coef -80 PPM.			Sec 2: Resonator A: 11,200000 KHz, Resonator B: 11,196024 KHz.	2502L	19C320141G5	Coil. Includes:
					Ceramic disc: 18 pf ±5%, 500 VDCW, temp coef -80 PPM.	C1	5494481P13	Capacitor, ceramic disc: 2000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap.	C506H	19A116656P12K8	Ceramic disc: 12 pf ±10%, 500 VDCW, temp coef -80 PPM.	FL501M	19B219573G5	Crystal, freq: Sec 1: Resonator A: 11,204000 KHz, Resonator B: 11,196000 KHz.	5493185P9	5493185P9	Tuning slug.
			CRI	19A116052P2	Silicon.	C301	19B209159P4	Capacitor, variable, air: 1.80 to 8.3 pf, 650 v peak; sim to EF Johnson 189.	C507LL	5491601P120	Phenolic: 1.0 pf ±5%, 500 VDCW.			Sec 2: Resonator A: 11,200000 KHz, Resonator B: 11,196024 KHz.	2502M	19C320141G4	Coil. Includes:
				----- JACKS AND RECEPTACLES -----		DS1	19B209067P1	Lamp, glow: 0.7 ma; sim to GE NE2ET.	C507L	5491601P119	Phenolic: 0.82 pf ±5%, 500 VDCW.	FL501H	19B219574G3	Crystal, freq: Sec 1: Resonator A: 11,200000 KHz, Resonator B: 11,196000 KHz.	5493185P9	5493185P9	Tuning slug.
						L301M	19B219455G3	Coil. Includes:	C507M	5491601P117	Phenolic: 0.68 pf ±5%, 500 VDCW.			Sec 2: Resonator A: 11,200000 KHz, Resonator B: 11,196024 KHz.	2502H	19C320141G5	Coil. Includes:
						C2	5494481P11	Capacitor, ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap.	C507H	5491601P115	Phenolic: 0.56 pf ±5%, 500 VDCW.	FL502LL		(Part of FL501H).	5493185P9	5493185P9	Tuning slug.
			J2	19A116975P1	Receptacle, wire spring.	C301	19B209159P4	Capacitor, variable, air: 1.80 to 8.3 pf, 650 v peak; sim to EF Johnson 189.	C508LL	19A116656P27K8	Ceramic disc: 27 pf ±10%, 500 VDCW, temp coef -80 PPM.	FL502L		(Part of FL501H).	5493185P9	5493185P9	Tuning slug.
				----- INDUCTORS -----		DS1	19B209067P1	Lamp, glow: 0.7 ma; sim to GE NE2ET.	C508L	19A116656P24K8	Ceramic disc: 24 pf ±10%, 500 VDCW, temp coef -80 PPM.	FL502M		(Part of FL501H).	5493185P9	5493185P9	Tuning slug.
			LL* thru L3*	19C307170P306	Coil, RF: variable; sim to Paul Smith 092574-DS-3.	L301H	19B219455G3	Coil. Includes:	C508M	19A116656P15K8	Ceramic disc: 15 pf ±10%, 500 VDCW, temp coef -80 PPM.	FL502H		(Part of FL501H).	5493185P9	5493185P9	Tuning slug.
					In 19C320073G1 REV A and earlier:	C2	5494481P11	Capacitor, ceramic disc: 1000 pf ±20%, 1000 VDCW; sim to RMC Type JF Discap.	C508H	19A116656P12K8	Ceramic disc: 12 pf ±10%, 500 VDCW, temp coef -80 PPM.			(Part of FL501H).	5493185P9	5493185P9	Tuning slug.