MOTOROLA 75MF

FORD FEG-18806-H

SERVICE NOTES

RADIO POLARITY - WHEN SERVICING THIS RECEIVER ON THE SERVICE BENCH, BE SURE THAT THE RECEIVER "A" LEAD IS CONNECTED TO THE POSITIVE SIDE OF THE POWER SOURCE AND THAT THE RECEIVE ER HOUSING IS CONNECTED TO THE NEGATIVE SIDE. IF CONNECTED OTHERWISE, THE RECEIVER WILL NOT OPERATE AND DAMAGE TO COMPONENTS MAY RESULT. WILL NOT RESULT.

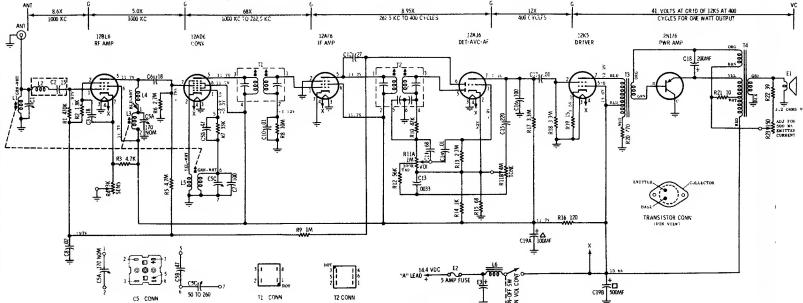
TRANSISTOR REPLACEMENT - When replacing a transistor, be sure that the transistor mounting screws are securely tightened. If not securely tightened, the transistor may be damaged from lack of proper heat dissipation. NOTE: When a transistor is replaced, the emitter current should be checked (see EMITTER CURRENT ADJUST-MENTS).

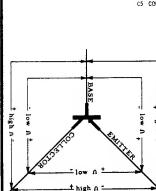
DIAL LIGHT # SPARK PLATE PLUG TO FIT RECYR TO RECEIVER lead. The current is adjusted by measuring the voltage lead. The current is adjusted by measuring the voltage drop across the top section of T-4 primary winding. Connect the negative lead of a low range VTVM to the yellow lead of T-4 (top of primary winding) and the positive VTVM lead to the white lead (tap on primary) of T-4; adjust R-23 for a.82 volt reading (see ALIGNMENT LOCATIONS photo). through EMITTER CURRENT ADJUSTMENT - The emitter curt is adjusted by variable resistor R-23 for 390 Ma flow ough the transistor with 12 volts at the receiver's "A" TO SIGNAL GENERATOR

DUMMY ANTENNA DATA 6. TRANSISTOR CHECK - The transistors used in this receiver can be expected to give unusually long trouble-free life. However, the following transistor checks are provided sistors. to facilitate servicing: Substituting a known good transistor for the simplest and most positive way c CORE ALIGNMENT TOOL way of checking buble-free provided DETAIL

tion to the resistanc ability of a transistor using an resistance in the The transistor may be checked for shorts and opens of ohmmeter. This check primarily measures made current flow by connecting the ohmmeter conduction direction in the non-conduction w in the opposite direction is very low in rela s and opens by measures the suspected one

in illustration. U qBit in one direction direction. The ECTOR





TRANSISTOR CONNECTIONS (PIN VIEW)

MOTOROLA 75MF, FORD FEG-18806-H, Alignment Information

Connect an output meter across the speaker voice coil. Set tone control to high and volume control to maximum. Attenuate signal generator output to maintain 1.79 volts (1 watt) on output meter to prevent overloading. Input voltage should be 14.4 volts.

STEP	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 cycle mod)	TUNER SET TO	ADJUST	REMARKS
IF AL	IGNMENT 12AD6 grid (pin 7) thru . 1 mf & chassis	262.5 Kc	Hı end stop	I, 2, 3 & 4	Adjust for maximum.
RF AL	IGNMENT Antenna recept thru dummy	. 1610 Kc	H1 end stop	5,6&7	Adjust for maximum.
NOTE: Do not perform steps 3, 4, 5 & 6 unless tuner has been tampered with or components have been replaced. Before proceeding with step 3, back tuning cores 1-3/8" out of tuning coils to eliminate their effect on trimmer adjustment.					
3.	Antenna recept thru dummy (see Figure)	1610 Kc	Hi end stop	5,6&7	Adjust for maximum.
4.	év	1020 Kc	25/32" from hi end stop	8, 9 & 10	Adjust for maximum.
5.	87	1610 Kc	Hi end stop	5,6&7	Adjust for maximum.
6. Repeat steps 4 & 5 until no further increase, then cement cores in place; last adjustment should be step 5.					
SENSI	I FIVITY CONTROL Antenna recept	600 Kc at 5	Tune for max	Sensitivity	Adjust for 1.79 volts output.

7. Antenna recept thru dummy and the difference of the the differenc

TO CALIBRATE POINTER
Tune radio to 1000 Kc signal and rotate pointer adjusting cam until center of pointer coincides with the center of the 1000 Kc mark on dial scale. *IRANS ISTOR EMITTER* CURRENT ADJUSTMENT THESE POINTS FOR CONNECT VIVM TO SERVICE NOTE RF CORE 1020 KC) OSC CORE 1020 KC ANT CORE 1020 KC OSC TRIM (S) 1610 KC SENSITIVITY CONT R4 RF TR IM ©. 1610 KC ANT TR IM(7) 1610 KC

ALIGNMENT ADJUSTMENT LOCATIONS