

COLLECTOR CURRENT ADJUSTMENT - The collector current is adjusted by variable resistor R-27, for a 870 Ma flow through the transistors, with 12 volts at the receiver's "A" lead. Separate the transistor mounting heat sink from the housing, connect the negative lead of a low internal resistance milliammeter to the radio housing and the positive lead to the heat sink. Adjust variable resistor R-27, for 870 milliamperes.

NOTE: Internal resistance of milliammeter should not exceed .5 ohm.

T-2 COUPLING - The coupling of IF transformer T-2 has been increased by soldering a 1-1/2" length of insulated wire from pin #3 of T-2, and winding one turn of this wire around the plate lead of capacitor C-12. When replacing either T-2 or C-12, this wire should also be replaced. If omitted, the stopping accuracy of the receiver will be affected.

"A" LEAD E11 +14.4V
7.5 AMP FUSE
E10 PILOT LIGHT LEAD +14.4V
SPARK PLATE
C23
ON-TUNER
E9
ON-OFF SW
E12
TOTAL COLLECTOR CURRENT
ADJ FOR 1 AMP
R26 68
R27 125
R28 82
R29 3.9M
R30 4.7M
R31 3.3M
R32 3.3M
R33 1.1V
R34 1.1V
R35 1.1V
R36 1.1V
R37 1.1V
R38 1.1V
R39 1.1V
R40 1.1V
R41 1.1V
R42 1.1V
R43 1.1V
R44 1.1V
R45 1.1V
R46 1.1V
R47 1.1V
R48 1.1V
R49 1.1V
R50 1.1V
R51 1.1V
R52 1.1V
R53 1.1V
R54 1.1V
R55 1.1V
R56 1.1V
R57 1.1V
R58 1.1V
R59 1.1V
R60 1.1V
R61 1.1V
R62 1.1V
R63 1.1V
R64 1.1V
R65 1.1V
R66 1.1V
R67 1.1V
R68 1.1V
R69 1.1V
R70 1.1V
R71 1.1V
R72 1.1V
R73 1.1V
R74 1.1V
R75 1.1V
R76 1.1V
R77 1.1V
R78 1.1V
R79 1.1V
R80 1.1V
R81 1.1V
R82 1.1V
R83 1.1V
R84 1.1V
R85 1.1V
R86 1.1V
R87 1.1V
R88 1.1V
R89 1.1V
R90 1.1V
R91 1.1V
R92 1.1V
R93 1.1V
R94 1.1V
R95 1.1V
R96 1.1V
R97 1.1V
R98 1.1V
R99 1.1V
R100 1.1V

COUNTRY
E6 Opens & remains open
E7 Closes momentarily

TOWN
E6 Closes & remains closed
E8 Closes momentarily

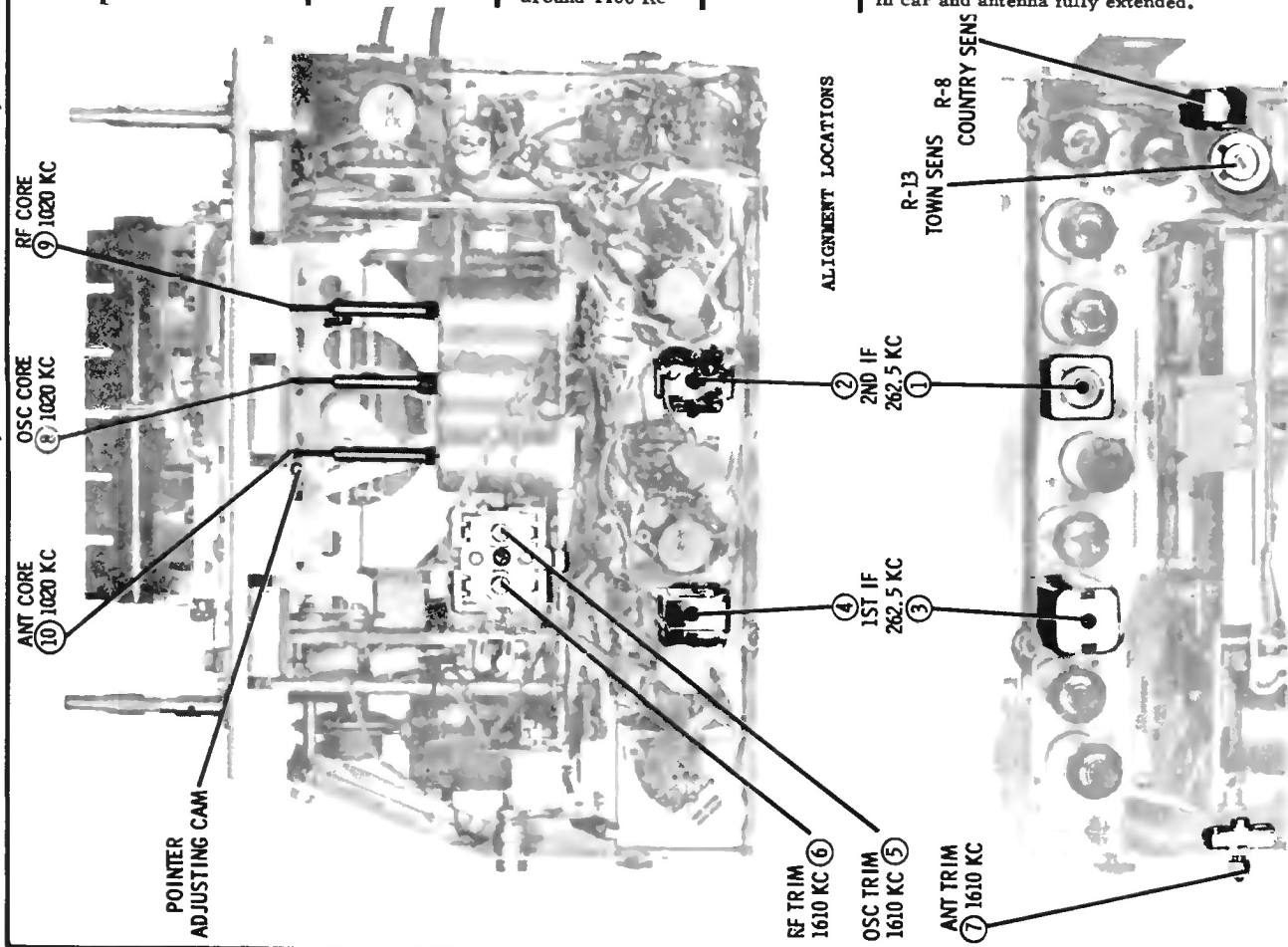
MOTOROLA INC.

FORD FEG-18806-G
MOTOROLA 78MF
AUTO RADIO

DUMMY ANTENNA DETAIL CORE ALIGNMENT TOOL DETAIL

Connect a VTVM from the AVC line to ground (pin #1 of 12AD6 RF amp & chassis). Set volume to minimum and tone to treble. Attenuate signal generator to maintain VTVM reading between 1.5 and 2 volts.

STEP	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 cycle mod)	TUNER SET TO	ADJUST	REMARKS
IF ALIGNMENT					
1.	12AD6 conv, grid (pin 7) thru .1 mf & chassis	262.5 Kc	Hi end stop	2, 3 & 4	Adjust for maximum.
2.	"	"	"	1	Adjust for dip.
RF ALIGNMENT					
3.	Antenna recept thru dummy	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
NOTE: Do not perform steps 4, 5, 6 & 7 unless the tuner has been tampered with or components have been replaced. Before proceeding with step 4, back tuning cores 1-3/8" out of tuning coils to eliminate their effect on trimmer adjustment.					
4.	Antenna recept thru dummy	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
5.	"	1020 Kc	49/64" from hi end stop	8, 9 & 10	Adjust for maximum.
6.	"	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
7. Repeat steps 5 & 6 until no further increase, then cement cores in place. Step No. 6 should be last adjustment.					
SENSITIVITY CONTROLS					
8.	Antenna recept thru dummy (see Figure)	1000 Kc at 5 microvolts	Tune for max	R8	Adjust for 1.79 volts output. (Connect output meter across voice coil and set volume control to maximum).
9.	"	1000 Kc at 100 microvolts	Tune for max	R13	Short case of R13 to chassis. Adjust for 1.79 volts output. (Connect output meter across voice coil and set volume control to maximum).
ANTENNA TRIMMER ADJUSTMENT					
10.			Weak station around 1400 Kc	7	Adjust for maximum with radio installed in car and antenna fully extended.



MOTOROLA 78MF, FORD FEG-18806-G, ALIGNMENT INFORMATION