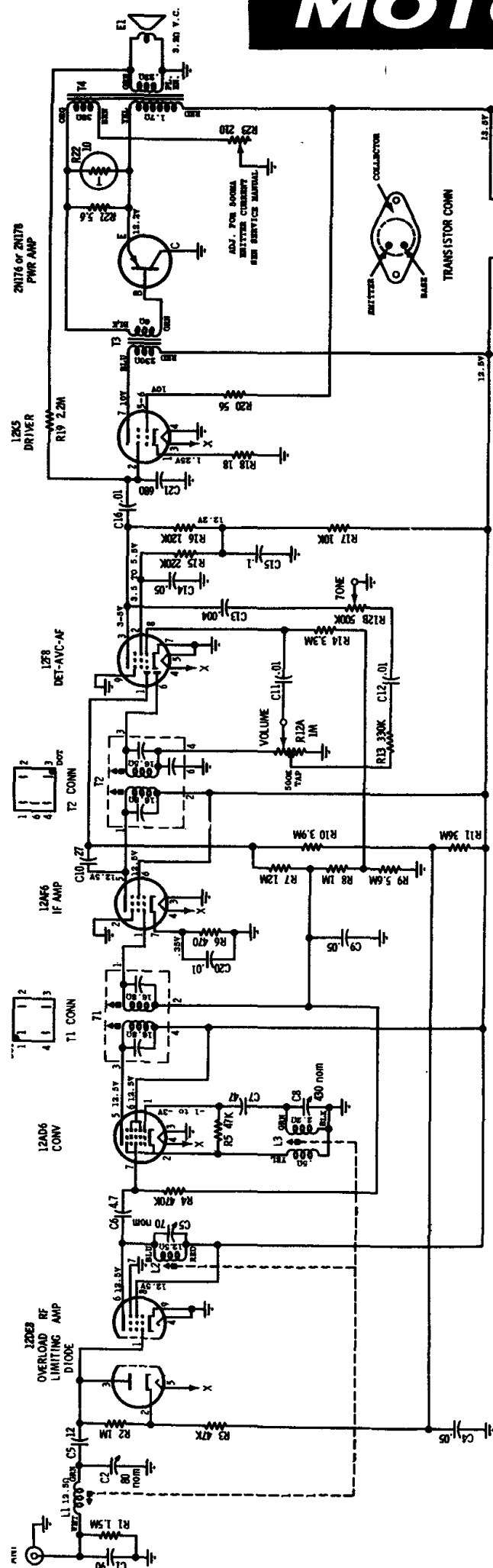


MOTOROLA

AUTO RADIO
MODEL
CTM7X



ALIGNMENT

Connect an output meter across the speaker voice coil. Set volume to maximum and tune to treble. Attenuate signal generator output to maintain 1.79 volts on output meter at all times to prevent overloading the receiver.

STEP	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 cycle mod)	TUNER SET TO	ADJUST	REMARKS
1.	IF ALIGNMENT				
1.	Converter grid (pin 7) thru .1 mf & chassis	455 Kc	Hi end stop	1, 2, 3 & 4	Adjust for maximum.
2.	RF ALIGNMENT				
2.	Ant recept thru dummy (see Fig.)	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
NOTE: Do not perform steps 3, 4, 5 & 6 unless the tuner has been tampered with or components have been replaced. Before proceeding with step 3, back tuning cores as far as possible out of coils to eliminate their effect on trimmer adjustments. Construct core alignment tools as shown below.					
3.	Ant recept thru dummy (see Fig.)	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
4.	"	1400 Kc	Tuner carriage 13/64" from hi end stop	8, 9 & 10	Adjust for maximum.
5.	"	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
6.	Repeat steps 4 & 5 until no further increase, then cement tuning cores in place; step 5 should be last adjustment.				
7.	ANTENNA TRIMMER	-	Weak station around 1400 Kc	7	With radio installed in car and antenna fully extended, adjust antenna trimmer for maximum.

CAUTION

"H" LEAD MUST BE CONNECTED TO POSITIVE (+) SIDE OF POWER SUPPLY. RADIO WILL NOT OPERATE AND DAMAGE TO COMPONENTS WILL RESULT IF CONNECTED OTHERWISE.

NOTES:
CAPACITORS - Decimal values in MF, others in MMF unless otherwise specified.
VOLTAGE S - Measured from point indicated in chassis with a VTVM. Tolerance $\pm 10\%$. No signal input.
INPUT VOLTAGE - 14 VDC.
TUNING RANGE - 535 KC to 1605 KC.
IF FREQ. - 455 KC.