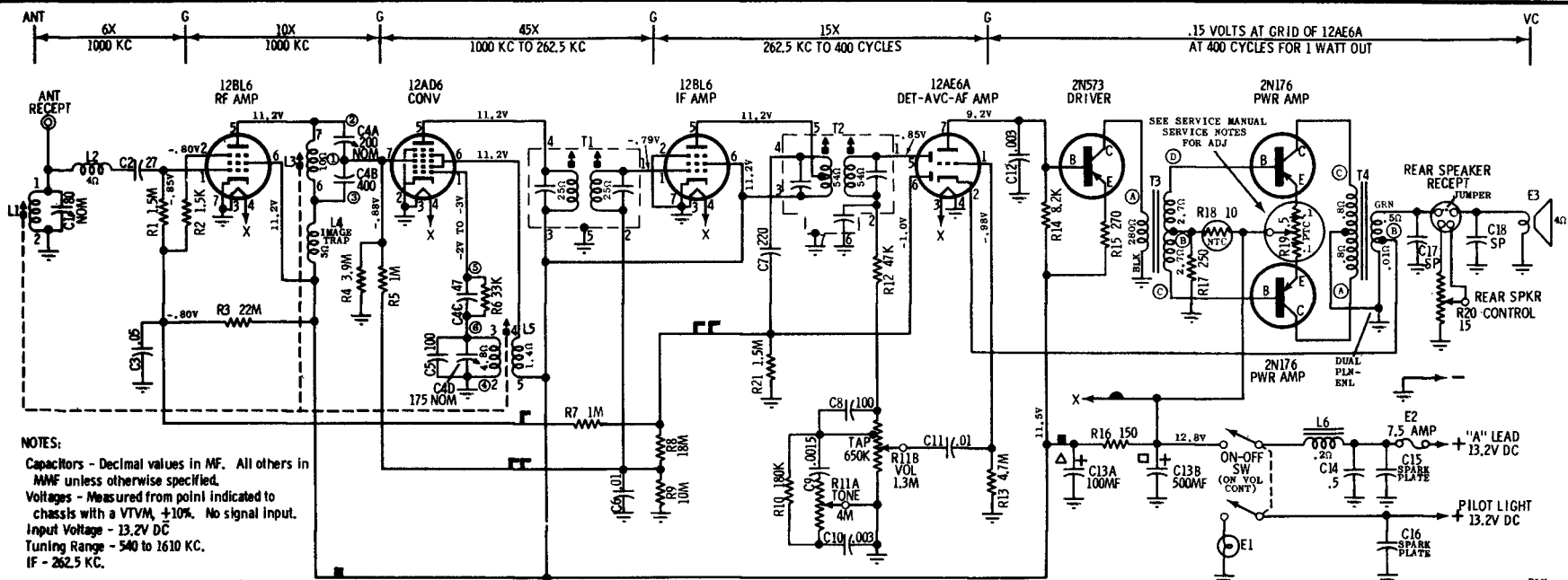




ALIGNMENT

MODEL 302 SCHEMATIC DIAGRAM

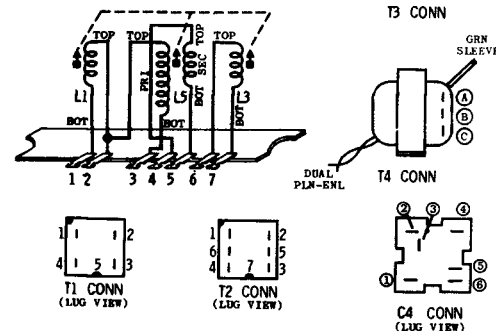
Connect an output meter across the speaker voice coil. Set volume to maximum and tone to high. Attenuate signal generator output to maintain 1.79 volts on output meter at all times to prevent overloading the receiver.

STEP	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 cycle mod)	TUNER SET TO	ADJUST	REMARKS
IF ALIGNMENT					
1.	Ant recept thru .1 mf capacitor & ground	262.5 Kc	Hi end stop	1, 2, 3 & 4	Adjust for maximum.
RF ALIGNMENT					
2.	Ant recept thru dummy antenna	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 (of ant, RF & osc only) out of coils to eliminate their effect on the trimmer adjustments.					
3.	Ant recept thru dummy antenna	1610 Kc	Hi end stop	5, 6 & 7	Adjust for maximum.
4.	"	1020 Kc	Tuner carriage 49/64" in 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 and 5 until no further increase, then cement cores in place. Step 5 should be last step.				
ANTENNA TRIMMER					
7.	-	-	Weak station around 1000 Kc	7	With radio installed in car and antenna fully extended, peak antenna trimmer for maximum.

POINTER CALIBRATION - Tune radio to a 1000 Kc signal and adjust the pointer adjusting cam (see **ALIGNMENT LOCATIONS**) until pointer lines up with the 1000 Kc calibration mark on the dial scale.

PLATED PANEL WIRING LEGEND

■ = B+ ▲ = FILAMENT ▢ = RF AVC
▢▢ = IF, CONV AVC



MOTOROLA

MODEL 302

(Use this material with service data on page 83)

