

# MODULATOR & OSCILLATOR 6J8M

C4 1600 KC ANT ALIGNING  
C5 ALL 5W RNT BRANDS  
C8-1600 KC OSC ALIGNING  
C9 ALL 5V OSC BRANDS

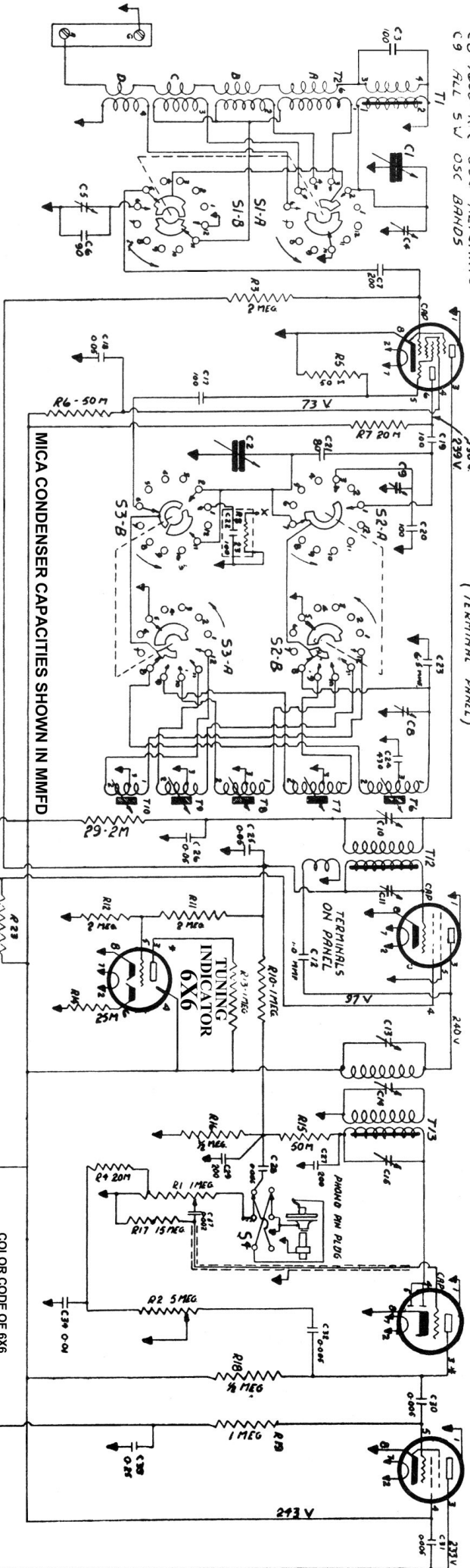
C10 456 KC 1/4" HF ALIGNING  
C11 456 KC 1/4" IF NEUTRALIZING COND  
C12 1M 1/4" IF NEUTRALIZING COND  
(TERMINAL PANEL)

# I.F. AMP 6K7M

C13 456 KC 2nd IF ALIGNING  
C14 456 KC  
C15 456 KC

# DETECTOR & AUDIO AMP 6B6/75M

# OUTPUT 6F6M



MICA CONDENSER CAPACITIES SHOWN IN MMFD

ALL WAVE CHANGE SWITCHES ARE SHOWN IN BROADCAST BAND POSITION & VIEWED FROM REAR OF CHASSIS WITH CHASSIS INVERTED. SWITCH SECTION "A" IS REAR OF WAFER SWITCH SECTION. "B" IS FRONT OF WAFER (TRANSPARENT VIEW)

VALUES OF RESISTANCE IN CIRCUIT DO NOT PERMIT ACCURATE VOLTAGE CHECK USE PLATE CURRENT AS INDICATION OF PRESENCE OR CORRECT GRID AND PLATE VOLTAGE. VOLTAGE READINGS ARE BETWEEN POINTS SHOWN & CHASSIS (GROUND) UNLESS OTHERWISE INDICATED.

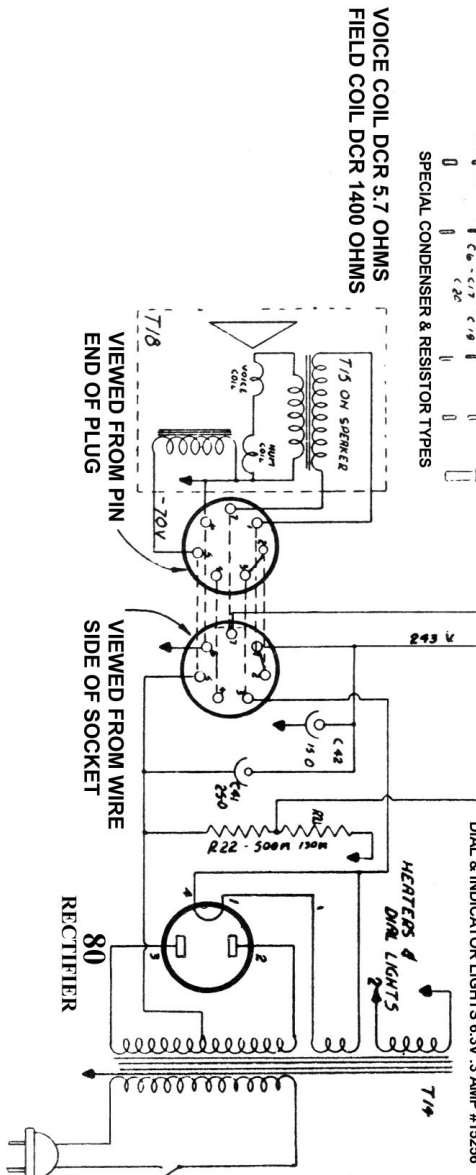
5.4 ANT COIL

VOICE COIL DCR 5.7 OHMS  
FIELD COIL DCR 1400 OHMS

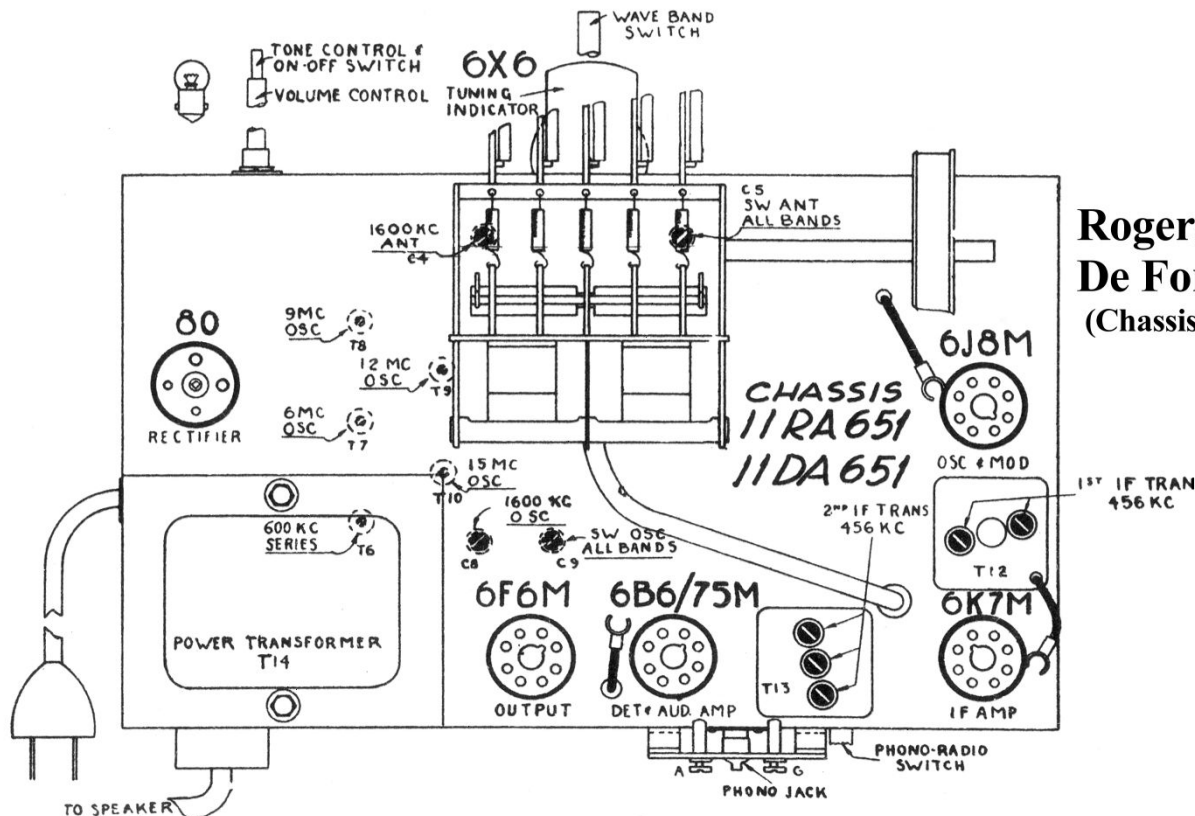
SPECIAL CONDENSER & RESISTOR TYPES

VIEWED FROM PIN  
END OF PLUG

VIEWED FROM WIRE  
SIDE OF SOCKET



Rogers 16-65, 16-66 De Forest 56-42, 66-42 (Chassis 11RA651, 11DA651)



**Rogers 16-65, 16-66**  
**De Forest 56-42, 66-42**  
 (Chassis 11RA651, 11DA651)

The automatic push buttons are very easy to "set up" on these models; simply lift the front of the keys up, one at a time, tune the desired station in manually, and then press the key down into the original position. DO NOT ATTEMPT TO REMOVE KEYS.

### ALIGNMENT DATA INTERMEDIATE and BROADCAST BAND FREQUENCIES

**751, 951**

Operation	Connect Generator	Set Generator Tuning	Set Receiver Tuning	Dummy Antenna	Vol. Cont.	Adjust	Remarks
1	To Grid Cap of 6J8M Tube	456 Kcs.	700-800 Kcs.	.1 Mfd.	Max.	C10, C11, C12, C13, C14	To Peak I.F.
2	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C8	To Peak Osc.
3	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C6	To Peak I.S.
4	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C4	To Peak Ant.
5*	To Antenna	600 Kcs.	600 Kcs.	.0002 Mfd.	Max.	T5	To Track Osc.
6	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C8, C6, C4	To Recheck Adjust

**651**

Operation	Connect Generator	Set Generator Tuning	Set Receiver Tuning	Dummy Antenna	Vol. Cont.	Adjust	Remarks
1	To Grid Cap of 6J8M Tube	456 Kcs.	700-800 Kcs.	.1 Mfd.	Max.	C10, C11, C13, C14, C15	To Peak I.F.
2	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C8	To Peak Osc.
3	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C4	To Peak Ant.
4*	To Antenna	600 Kcs.	600 Kcs.	.0002 Mfd.	Max.	T6	To Track Osc.
5	To Antenna	1600 Kcs.	1600 Kcs.	.0002 Mfd.	Max.	C8, C4	To Recheck Adjust.

\* Rock tuning control during this adjustment.

**651, 751, 951**

### SHORT-WAVE SPREAD-BAND

The most satisfactory method of aligning and checking the spread-band ranges is through the use of actual short-wave stations of known frequencies, which are tuned in on a specific receiver band and deviations from calibration noted.

When using a signal generator allow it to operate until it stops drifting. Check its calibration against known stations at or near the aligning frequencies shown.

Operation	Connect Generator	Generator Tuning	Receiver Tuning	Dummy Antenna	Adjust	Lineal Deviation
1	To Antenna	15.22 Mcs.	15.22 Mcs.	400 Ohms	C9	+ 1/8"
2	To Antenna	6.1 Mcs.	6.1 Mcs.	400 Ohms	T6	+ 1/8"
3	To Antenna	9.6 Mcs.	9.6 Mcs.	400 Ohms	T7	+ 1/8"
4	To Antenna	11.8 Mcs.	11.8 Mcs.	400 Ohms	T8	+ 1/8"
5	To Antenna	15.2 Mcs.	15.2 Mcs.	400 Ohms	T9	+ 1/8"
6	To Antenna	For maximum sensitivity in the middle of the 6. mc. band		400 Ohms	C7	To Peak I.S.
7	To Antenna			400 Ohms	C5	To Peak Ant.

NOTE—Do not use adjustment C7 on the 11DA651 chassis.

Use only a visual output indicator during alignment. Keep the generator output low—only sufficient to give a readable indication.

The dummy antenna must be non-inductive, preferably that using isolantite sleeve and metal ends.