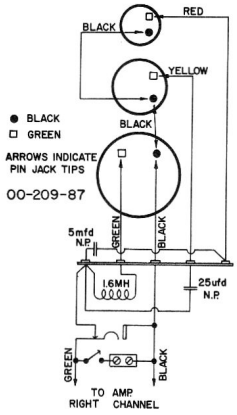
VIKING Service Information for Model RCS-426

13 TUBE AM-FM RADIO PHONOGRAPH

For Operation on 110-120V. A.C., Cycle as Marked

When writing for Service Information or Parts, please quote Model Number, Serial Number, Cycle and Finish of Cabinet.

SPEAKER CONNECTIONS



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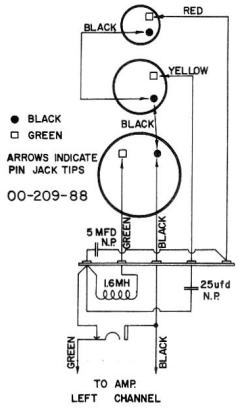
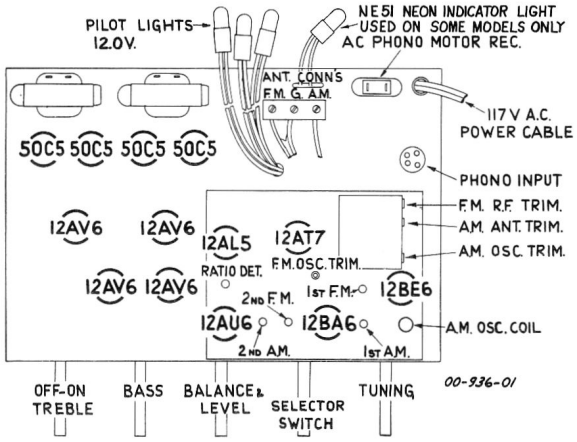
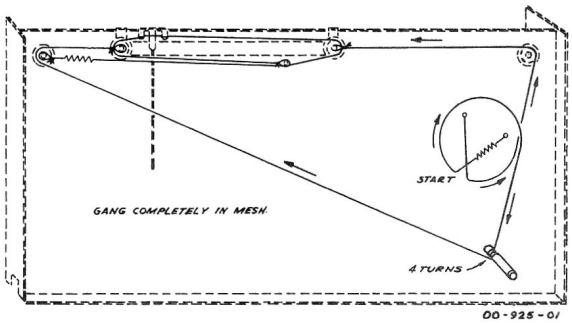


CHASSIS LAYOUT



STRINGING DETAIL



SPECIFICATIONS

AM-FM TUNER

Standard Broadcast Range.....535 to 1605 Kc.

Frequency Modulation Range.....88 to 108 Mc.

I.F. Frequency .....AM — 455 Kc.; FM — 10.7 Mc.

Sensitivity ....AM—30 uv for 100 mv at Detector FM — 5 uv for 20 db quieting

AMPLIFIER

Frequency Response .....30 cps to 15,000 cps

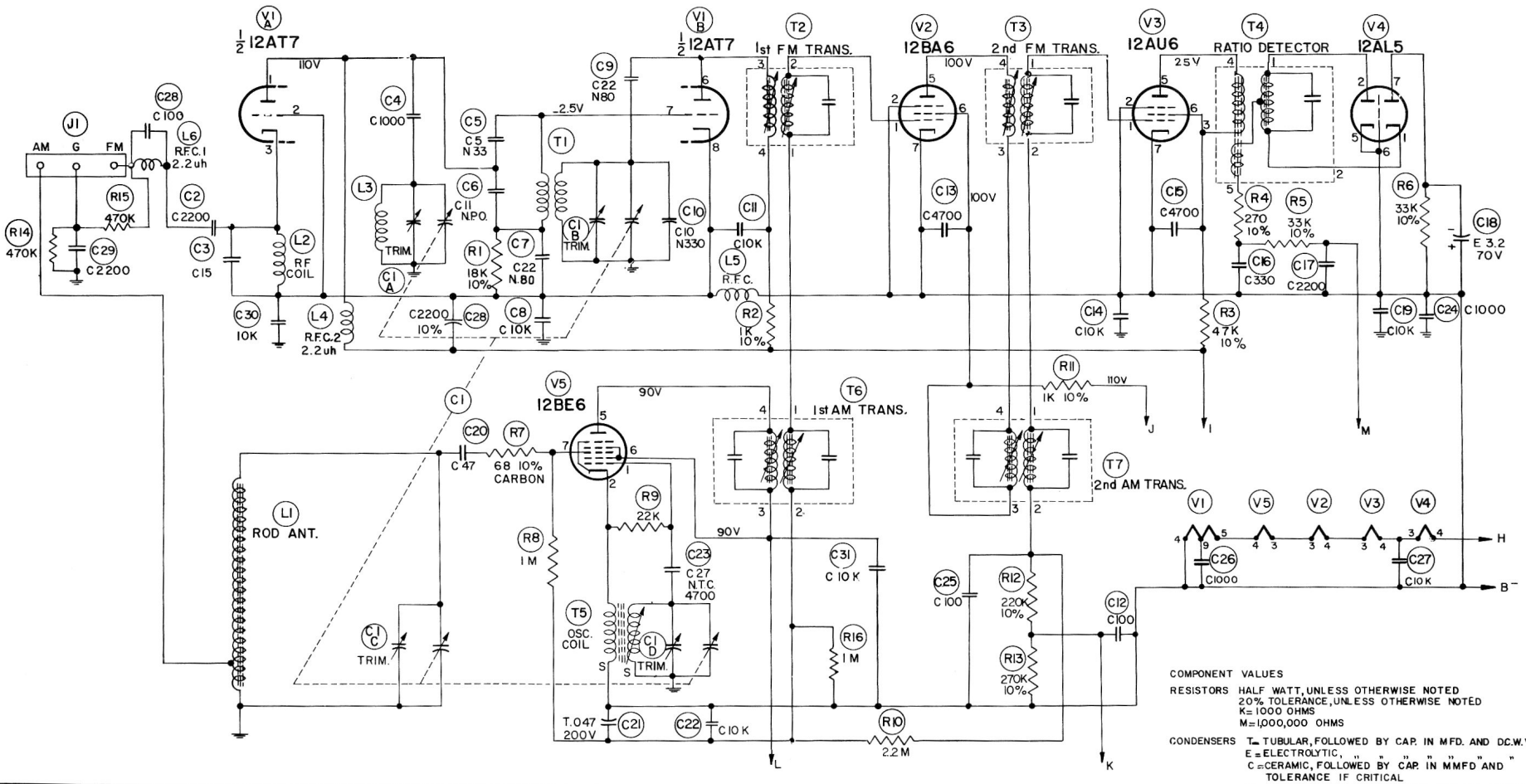
Power Output .....6 watts Peak (3 watts per channel)

All information printed in this leaflet is up to date as of Dec. 10, 1959. Subsequent changes are covered by bulletin.

THE T. EATON Co LIMITED
CANADA

54-1359-01

AM-FM TUNER



COMPONENT VALUES

RESISTORS HALF WATT, UNLESS OTHERWISE NOTED
20% TOLERANCE, UNLESS OTHERWISE NOTED
K= 1000 OHMS
M= 1,000,000 OHMS

CONDENSERS T= TUBULAR, FOLLOWED BY CAP. IN MFD. AND D.C.W.V.
E = ELECTROLYTIC, " " " " " " "
C = CERAMIC, FOLLOWED BY CAP. IN MMFD AND " TOLERANCE IF CRITICAL
M = MICA, FOLLOWED CAP. IN MMFD AND TOL. IF CRITICAL

00-440-01

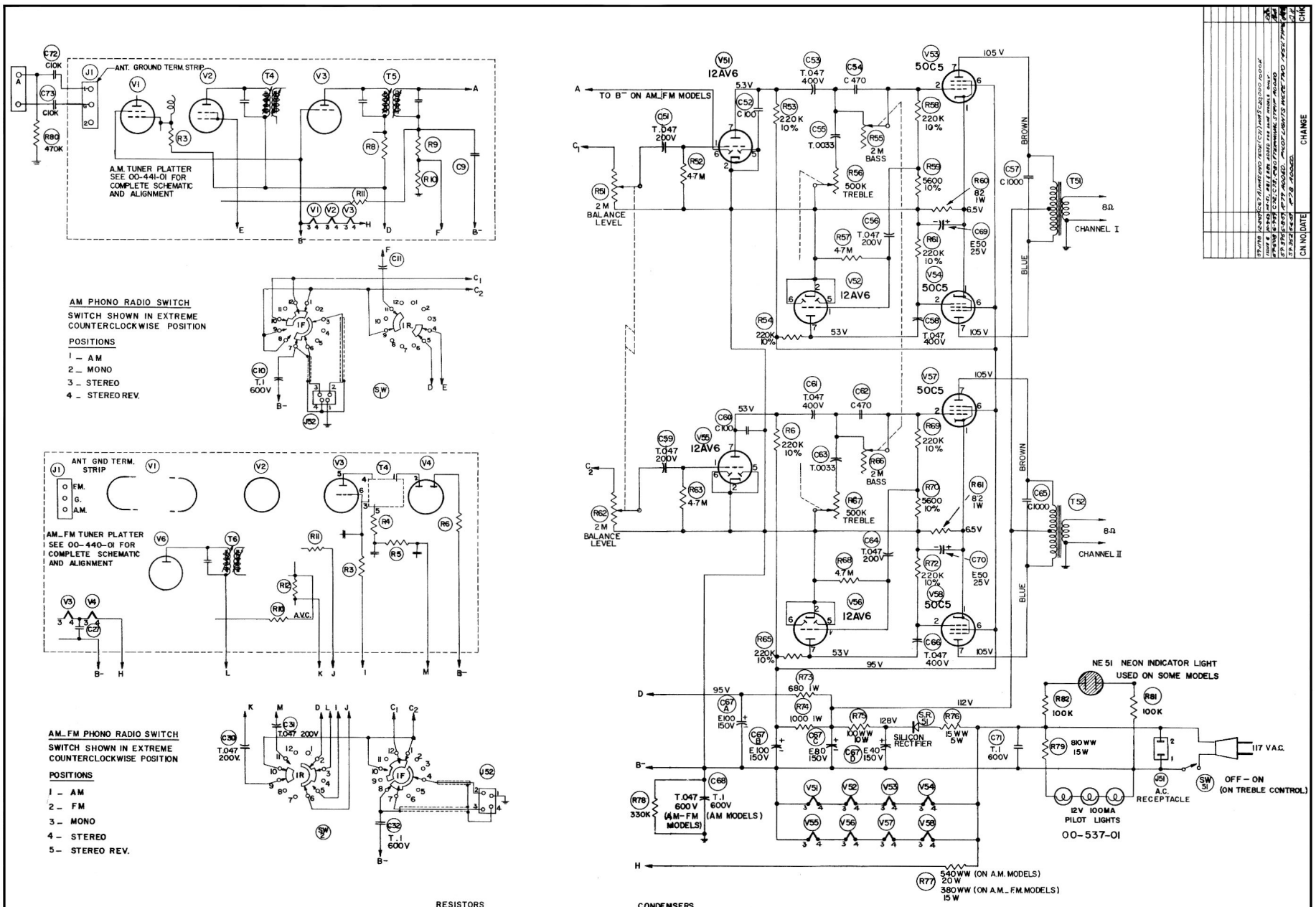
ALIGNMENT AND SENSITIVITY SIGNAL GENERATOR MODULATED 30% AT 400 CYCLES

STEP	SIGNAL APPLIED TO	FREQUENCY	BAND SWITCH SETTING	DIAL POINTER SETTING	OUTPUT INDICATING METER	ADJUST	REMARKS	NOMINAL SENSITIVITY
1	PIN *1 - 12BE6 .05uf DUMMY	455 KC/S 30% AT 400~	AM	GANG OPEN	AC V.T.V.M. AM DET. LOAD	AM-IF 1st AND 2nd	ADJUST FOR MAX. DEFLECTION	100uv FOR 100 M.V. **
2	AM ANT. TERMINAL 400 OHM DUMMY	1460 KC/S 30% AT 400~	AM	1460 KC/S	"	AM OSC AND ANT TRIM.	"	25uv FOR 100 MV **
3	"	600 KC/S 30% AT 400~	AM	600 KC/S	"	AM OSC COIL	"	45uv FOR 100 MV **
4	FM ANT. TERMINAL	10.7 MC/S CW	FM	POINT OF NO INTERFERENCE	DC V.T.V.M. AM DET. LOAD	AM IF 1st AND 2nd	"	—
5	"	"	FM	"	DC V.T.V.M. PIN *7 12AL5	RATIO DET. PRIMARY	"	—
6	"	"	FM	"	* SEE BELOW	RATIO DET. SECONDARY	ADJUST FOR ZERO BETWEEN POS. AND NEG. READING	—
7	FM ANT. TERMINAL 270 OHM DUMMY	90 MC/S 400~ AT 75 KC/S DIV.	FM	90 MC/S	AC V.T.V.M. FM DET. OUTPUT	FM-RF AND OSC. COIL	ADJUST FOR MAX. DEFLECTION	30uv FOR 100 MV **
8	"	106 MC/S 400~ AT 75 KC/S	FM	106 MC/S	"	FM-RF AND OSC. COIL	"	"

*CONNECT HIGHSIDE OF DC-VTVM TO FM DET. OUTPUT AND LOW SIDE TO JUNCTION OF TWO 100K Ω RESISTORS CONNECTED IN SERIES ACROSS RATIO DET. STABILIZING CAPACITOR
**AT DETECTOR LOAD

CH NO	DATE	CHANGE	CH'K
49-1300	1250-59	(C28) 400CD	

AMPLIFIER



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ALL VOLTAGES MEASURED WITH 20,000 OHMS VOLT METER

REPLACEMENT PARTS LIST — RCS-426

FINAL ASSEMBLY

24-130001-05	Crossover Inductance
44-5-01	Electrolytic 5 ufd. x 25V DC Non Polarized
44-5-03	Electrolytic 25 ufd. x 25V DC Non Polarized
03-160022-10	Garrard 121 Mk II Changer with BSR TC8SD Cart.—60 cycle
16-100010-03	BSR UA8 Changer & Mtg. Hardware less Motor, with TC8SD cart.—25 cycle
16-220002-01	Changer Motor & Mtg. Plate—25 cycle
Garrard	Spindle Clip (as supplied with spindle)
16-120030-01	BSR 45 RPM Spindle
16-120021-01	Garrard 121 MK II 45 R.P.M. Spindle
19-80006-03	8" PM Speaker 8 Ohm VC
19-50003-03	5" PM Speaker 8 Ohm VC
19-30003-02	3½" PM Speaker 8 Ohm VC
30-104-01	Control Panel
27-11-02	Neon Glow Lamp NE51 Bayonet
33-136-01	Clip—45 RPM Spindle Retainer
39-179-01	Swivel Plate
53-427-02	Knob—Rear
53-407-01	Disc Tuning
53-407-02	Disc Bass
53-475-07	Disc Off-Treble
53-475-04	Disc Selector AM-FM
53-407-05	Disc Level Balance
53-411-01	Knob
53-142-01	Viking Ship Medallion
53-112-05	Glass Retaining Strip

CHASSIS ASSEMBLY

24-80041-01	Output Transformer
26-45-01	Selector Switch
27-7-01	Pilot Lamp 12V .10 Amp.
28-10-01	Silicon Rectiifer
40-328201-01	Resistor—Comp. 82 Ohm ± 10% 1 W
41-120-01	Control—Dual, Treble, Off-On
41-121-01	Control—Dual, Bass
41-108-03	Control—Dual, Level Balance
44-111-01	Electrolytic 40, 100, 80, 100 ufd. x 150V
42-1-51	WW Resistor 100 Ohm 10W
42-1-50	WW Resistor 15 Ohm 5W
44-40-04	Electrolytic 50 ufd 25V
51-25-01	Rod Antenna
42-14-05	WW Resistor — Upright 540 Ohm 20W
42-14-04	WW Resistor — Upright 380 Ohm 15W
42-14-07	WW Resistor — Upright 810 Ohm ± 10% 15W

AM-FM PLATTER ASSEMBLY

21-300-03	Coil—FM RF Peaking (L2); "B" Neg. Choke (L5)
21-421-01	BC Osc. Coil
21-432-02	AM IF Transformer 1st and 2nd
21-433-01	FM IF Transformer
21-433-02	FM IF Transformer
21-439-02	RF Choke 2.2 uh
21-441-01	Ratio Detector
21-444-01	FM Osc. Coil
21-445-01	FM Osc. Feedback Coil
21-449-01	FM RF Coil
44-88-01	Cond.—Electrolytic—Miniature 3.2 ufd x 70V
45-36-01	FM Trimmer
45-38-01	AM-FM Gang Condensor