General Electric Co.

	Model: HE74	**Chassis:**	**Year:** Pre April 1941
	Power:	**Circuit:**	**IF:**
	Tubes:		
	Bands:		

Resources

- Riders Volume 12 - GE 12-23
- Riders Volume 12 - GE 12-39
- Riders Volume 12 - GE 12-40

SOCKET VOLTAGES

MODELS FE-82, FE-87

Tube No.	Plate to Ground Volts D-c	Screen Grid to Ground Volts D-c	Cathode to Ground Volts D-c	Cathode Current M.A.	Heater Volts A-c
6K7 R.F. Amplifier	232	97	0	7.5	6.3
6A8 Oscillator	180	....	0	10.6	6.3
6A8 Converter	232	97	0		
6K7 1st I.F. Amp.	232	95	"A" & "B" band 6 "D" band 3	"A" & "B" band 1.5 "D" band 3.4	6.3
6K7 2nd I.F. Amp.	245	95	3.52	5.7	6.3
6F5 Audio Amplifier	110*	....	1.3	.24	6.3
42 Output	236	252	16	39.0	6.3
80 Power Rectifier	342/684 Rms.	....	345	75	5.0

A-C line voltage 115 on primary 115-volt tap. No signal input. 1000 ohms per voltmeter. Dial pointer at 530 kc.
* Measured on 500-volt scale.

VOLTAGE CHART
Model JE-81

Tubes	Plate to Gnd. Volts	Screen to Gnd. Volts	Cathode to Gnd. Volts	Filament Volts
6SK7 (R.F.)	135	95	2.6	6.4
6K8	Conv.—135 Osc.—75	95	2.6	6.4
6SK7 (I.F.)	135	95	3	6.4
6J5G/6J5GT	0		0	6.4
6SQ7	80		1	6.4
6Y6G	210	135	13	6.4
5Y3G	460 V.A.C. Plate to Plate		220	5.1
6U5	135		0	6.4

Line Volts—110 AC on 110-volt tap—Pointer set at 560 KC on "B" band. No signal input.

5Y3G Cathode Current—80 ma.

VOLTAGE CHART
Model JE-810

Tubes	Plate to Gnd. Volts	Screen to Gnd. Volts	Cathode to Gnd. Volts	Filament Volts
6SK7 (R.F.)	125	95	2.5	6.4
6K8	Conv.—135 Osc.—75	95	2.5	6.4
6SK7 (I.F.)	135	95	3.2	6.4
6J5G/6J5GT	0		0	6.4
6SQ7	40		1	6.4
25C8G	200	135	13	25.5
25Z6G			210	25.5
6U5	135		0	6.4

Line Volts—240 AC or DC—Pointer set at 560 KC on "B" band.
No signal input.
25Z6G Cathode Current—85 ma.
Filament voltages on Model JE-810 will seldom be equal for same heater ratings, as tubes are in series and heater resistance varies from tube to tube.

SOCKET VOLTAGES

MODELS FE-112, FE-116, FE-119

Tube No.	Plate to Ground Volts DC	Screen Grid to Ground Volts DC	Cathode to Ground Volts DC	Cathode Current M.A.	Heater Volts AC
6K7 R.F. Amplifier	230	95	0	7.1	6.5
6J5-G Oscillator	195	....	0	11.0	6.5
6L7 Converter	235	90	0	7.7	6.5
6K7 1st I.F. Amp.	230	95	0	6.7	6.5
6K7 2nd I.F. Amp.	205	95	3.3	8.6	6.5
6F5 Audio Amp.	170	....	1.5	0.5	6.5
6L6-G Output	300	240	14.0	59.0	6.5
6U5 Tuning Indicator	....	195 (Target)	0	4.0	6.5
5Z3 Power Rectifier	345 A.C.	....	368	110	5.1

A-C line voltage 125 volts on primary 125-volt tap.
1000 ohms per-voltmeter. Dial pointer 5500 kc. on "D-1" band. No signal.

VOLTAGE CHART (Model HE-74 and HE-74L)

Tubes	Plate to Gnd. Volts	Screen to Gnd. Volts	Cathode to Gnd. Volts	Filament Volts
6SK7	135	90	4	6.5
6K8	Conv.—135 Osc.—95	90	3	6.5
6SK7	125	90	3	6.5
6SQ7	70		1	6.5
6Y6G	190	135	13.5	6.5
5Y3G	460 V. AC Plate to Plate		210	5.1
6U5	135		0	6.5

Line Volts—110 AC on 110-volt tap—Pointer set at 560 K.C. on "B" band—No signal input.
5Y3G Cathode Current—98 mils.

VOLTAGE CHART (Models HE-740 and HE-740L)

Tubes	Plate to Gnd. Volts	Screen to Gnd. Volts	Cathode to Gnd. Volts	Filament Volts
6SK7	145	95	4.3	6.1
6K8	Conv.—145 Osc.—136	95	2.9	6.1
6SK7	135	95	3.2	6.6
6SQ7	78		1.0	6.6
25C8G	210	145	13	26.5
25Z6G			220	26.5
6U5	145		1.0	6.5

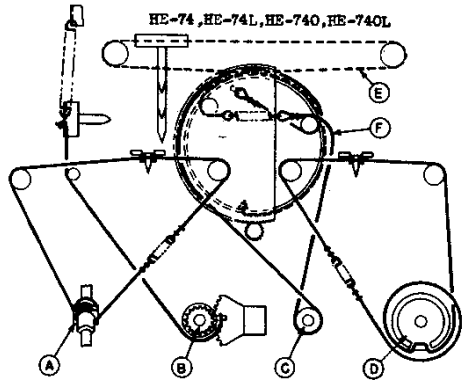
Line Volts—240 AC or DC—Pointer set at 560 K.C. on "B" band—No signal input.
25Z8G Cathode Current—100 mils.

SOCKET VOLTAGES

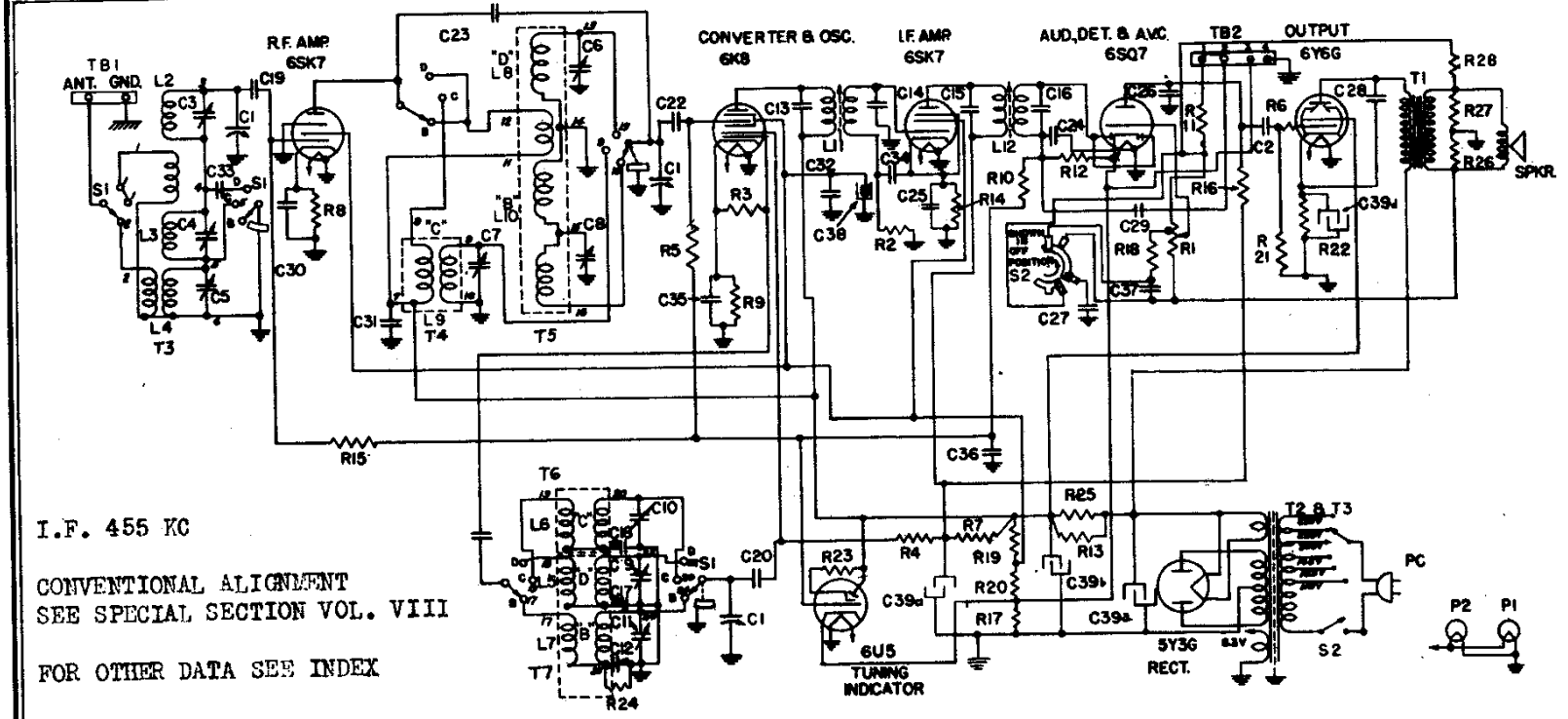
MODELS FE-62, FE-67, FE-68

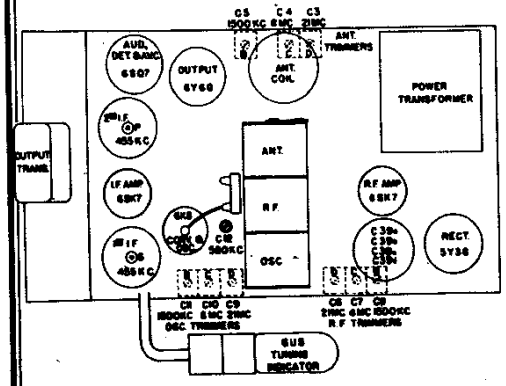
Tube No.	Plate to Ground Volts D-C	Screen Grid to Ground Volts D-C	Cathode to Ground Volts D-C	Cathode Current M.A.	Heater Volts A-C
6A7 Oscillator	175	....	0	10.4	6.5
6A7 Converter	236	95	0		
6K7 I.F. Amplifier	220	105	0	10.6	6.5
6H6 Det. and AVC Bias Section	....	....	−3.4	....	6.5
6H6 Det. and AVC Signal Section	....	....	....		
6F5 Audio Amplifier	98 *	....	1.3	0.2	6.5
42 Output	253	272	16.7	39.8	6.5
80 Power Rectifier	680/340 R.M.S.	....	340 D-C	68.3	5.0

A-C line voltage 120—No signal input—1000 ohms per volt meter—dial pointer at 540 K.C.
* Measured on 500-volt scale.



Dial Drive Mechanism

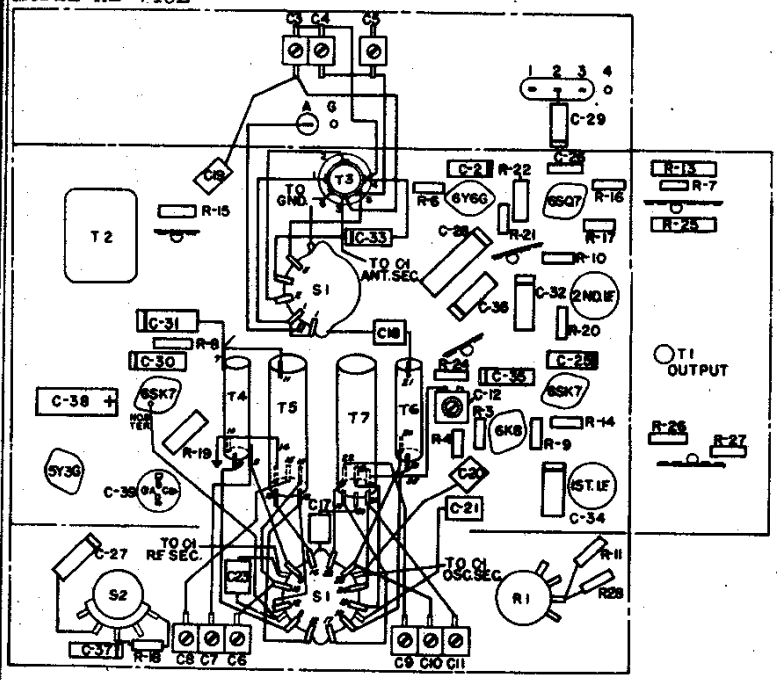




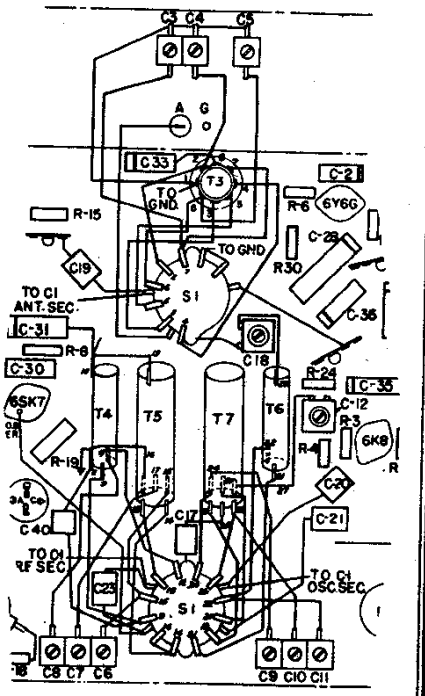
Symbol	Description
C1	450 Mmf. Tuning Condenser
C2	.05 Mfd. 600 V. Paper
C3	5–40 Mmf. "D" Ant. Trimmer
C4	3–30 Mmf. "C" Ant. Trimmer
C5	2–20 Mmf. "B" Ant. Trimmer
C6	3–30 Mmf. "D" R.F. Trimmer
C7	3–30 Mmf. "C" R.F. Trimmer
C8	3–30 Mmf. "B" R.F. Trimmer
C9	3–30 Mmf. "D" Osc. Trimmer
C10	3–30 Mmf. "C" Osc. Trimmer
C11	5–45 Mmf. "B" Osc. Trimmer
C12	300–650 Mmf. "B" Osc. Padder
C17	2800 Mmf. Mica ±5%
C18	1600 Mmf. Mica ±5%
C19	470 Mmf. Mica
C20	470 Mmf. Mica
C21	50 Mmf. Mica
C22	470 Mmf. Mica
C23	10 Mmf. Mica
C24	100 Mmf. Mica
C25	.04 Mfd. 600 V. Paper
C26	220 Mmf. Mica
C27	.00075 Mfd. 600 V. Paper
C28	.03 Mfd. 1500 V. Paper
C29	.002 Mfd. 600 V. Paper
C30	.05 Mfd. 200 V. Paper
C31	.05 Mfd. 600 V. Paper
C32	.05 Mfd. 600 V. Paper
C33	.006 Mfd. 600 V. Paper ±5%
C34	.05 Mfd. 200 V. Paper
C35	.05 Mfd. 200 V. Paper
C36	.05 Mfd. 200 V. Paper
C37	.003 Mfd. 600 V. Paper
C38	8 Mfd. 250 V. Dry Elec.
C39a	40 Mfd. 350 V. Dry Elec.
C39b	20 Mfd. 300 V. Dry Elec.
C39c	20 Mfd. 300 V. Dry Elec.
C39d	20 Mfd. 25 V. Dry Elec.
P1	Pilot Light, MAZDA No. 44
P2	Pilot Light, MAZDA No. 44
R1	2.0 Megohms Volume Control
R2	330,000 Ohms, ½-W. Carbon
R3	33,000 Ohms, ½-W. Carbon
R4	15,000 Ohms, ½-W. Carbon
R5	560,000 Ohms, ½-W. Carbon
R6	1,000 Ohms, ½-W. Carbon
R7	1,000 Ohms, ½-w. Carbon
R8	560 Ohms, ½-w. Carbon
R9	220 Ohms, ½-w. Carbon
R10	2.2 Megohms, ½-w. Carbon
R11	47,000 Ohms, ½-w. Carbon
R12	330,000 Ohms, ½-w. Carbon
R13	3,900 Ohms, 2-w. Carbon
R14	330 Ohms, ½-w. Carbon
R15	560,000 Ohms, ½-w. Carbon
R16	330,000 Ohms, ½-w. Carbon
R17	150 Ohms, ½-w. Carbon
R18	220,000 Ohms, ½-w. Carbon
R19	2,700 Ohms, 2-w. Carbon
R20	15,000 Ohms, 1-w. Carbon
R21	470,000 Ohms, ½-w. Carbon
R22	220 Ohms, 2-w. Carbon ±5%
R23	1.0 Megohms, ½-w. Carbon
R24	5,600 Ohms, ½-w. Carbon
R25	3,900 Ohms, 2-w. Carbon
R26	22 Ohms, ½-w. Carbon
R27	100 Ohms, ½-w. Carbon
R28	5.6 Megohms, ½-w. Carbon

MODEL HE-74
MODEL HE-74L
MODEL HE-740
MODEL HE-740L

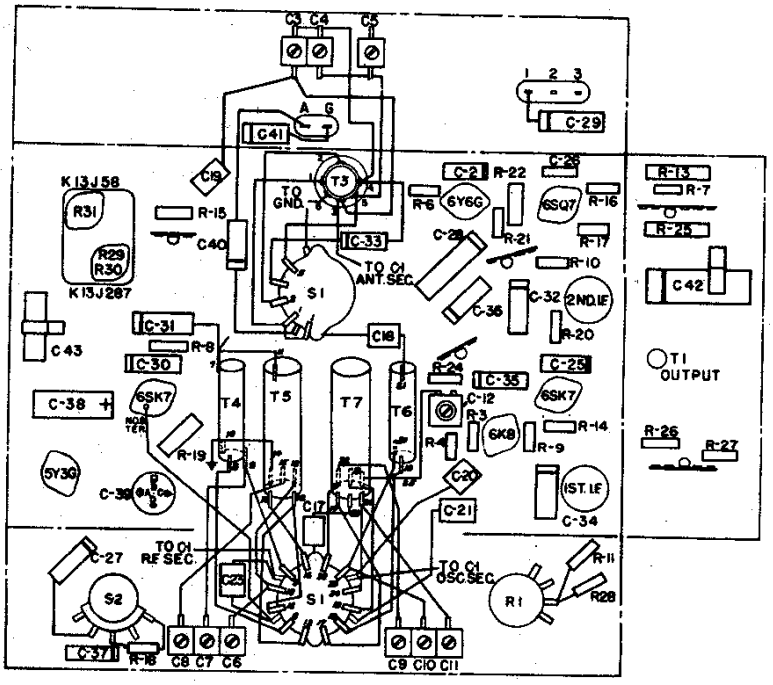
GENERAL ELECTRIC CO.



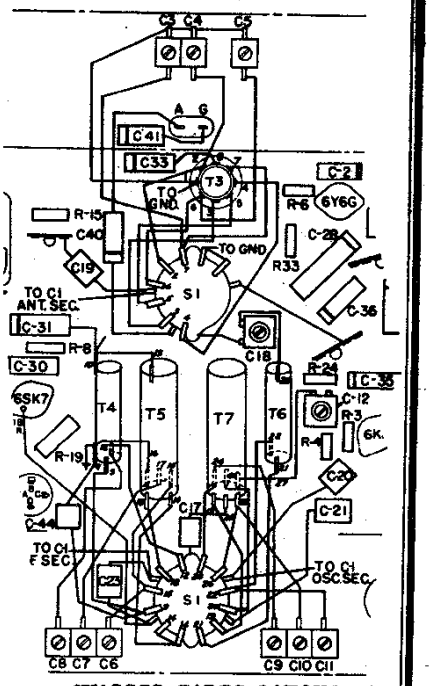
CHASSIS PARTS LAYOUT
MODEL HE-74



CHASSIS PARTS LAYOUT
(PARTIAL)
MODEL HE-74L
BALANCE SAME AS HE-74



CHASSIS PARTS LAYOUT
MODEL HE-740



CHASSIS PARTS LAYOUT
MODEL HE-740L
(PARTIAL)
BALANCE SAME AS HE740