

Fig. 3. Schematic Diagram

## IMPORTANT

Although the schematic diagram indicates that this model is adaptable to line-voltages up to 250 volts, do not attempt to operate it from any power source other than 105-125 volts, 60 cycles as so doing will result in damage to the record changer.

Symbol	Description	Symbol	Description
C-1	Tuning Condenser	C-29	8 Mfd. Electrolytic Capacitor
C-2	"A" Band Antenna Trimmer	L-1	Antenna Coil
C-3	"B" Band Antenna Trimmer	L-2	Oscillator Coil
C-4	"C" Band Antenna Trimmer	L-3	1st I.F. Transformer
C-5	"D" Band Antenna Trimmer	L-4	2nd I.F. Transformer
C-6	"E" Band Antenna Trimmer	L-5	3rd I.F. Transformer
C-7	"F" Band Antenna Trimmer	P-1	1st Wave Trap Coil
C-8	"G" Band Antenna Trimmer	P-2	2nd Wave Trap Coil
C-9	"H" Band Antenna Trimmer	P-3	Dial Lamp, Mazda No. 44
C-10	"I" Band Antenna Trimmer	P-4	Dial Lamp, Mazda No. 44
C-11	"J" Band Antenna Trimmer	R-1	500,000 Ohms Carbon Resistor
C-12	Wave Trap	R-2	500,000 Ohms Carbon Resistor
C-13	7-65 Mmf. Ant. Station Trimmer	R-3	500,000 Ohms Carbon Resistor
C-14	20-180 Mmf. Ant. Station Trimmer	R-4	500,000 Ohms Carbon Resistor
C-15	100-400 Mmf. Ant. Station Trimmer	R-5	500,000 Ohms Carbon Resistor
C-16	100-400 Mmf. Ant. Station Trimmer	R-6	500,000 Ohms Carbon Resistor
C-17	7-65 Mmf. Osc. Station Trimmer	R-7	500,000 Ohms Carbon Resistor
C-18	20-180 Mmf. Osc. Station Trimmer	R-8	500,000 Ohms Carbon Resistor
C-19	100-400 Mmf. Osc. Station Trimmer	R-9	500,000 Ohms Carbon Resistor
C-20	100-400 Mmf. Osc. Station Trimmer	R-10	500,000 Ohms Carbon Resistor
C-21	7-65 Mmf. Osc. Station Trimmer	R-11	500,000 Ohms Carbon Resistor
C-22	20-180 Mmf. Osc. Station Trimmer	R-12	500,000 Ohms Carbon Resistor
C-23	100-400 Mmf. Osc. Station Trimmer	R-13	500,000 Ohms Carbon Resistor
C-24	100-400 Mmf. Osc. Station Trimmer	R-14	500,000 Ohms Carbon Resistor
C-25	7-65 Mmf. Osc. Station Trimmer	R-15	500,000 Ohms Carbon Resistor
C-26	20-180 Mmf. Osc. Station Trimmer	R-16	500,000 Ohms Carbon Resistor
C-27	100-400 Mmf. Osc. Station Trimmer	R-17	500,000 Ohms Carbon Resistor
C-28	100-400 Mmf. Osc. Station Trimmer	R-18	500,000 Ohms Carbon Resistor
C-29	7-65 Mmf. Osc. Station Trimmer	R-19	500,000 Ohms Carbon Resistor
C-30	20-180 Mmf. Osc. Station Trimmer	R-20	500,000 Ohms Carbon Resistor
C-31	100-400 Mmf. Osc. Station Trimmer	R-21	500,000 Ohms Carbon Resistor
C-32	100-400 Mmf. Osc. Station Trimmer	R-22	500,000 Ohms Carbon Resistor
C-33	7-65 Mmf. Osc. Station Trimmer	R-23	500,000 Ohms Carbon Resistor
C-34	20-180 Mmf. Osc. Station Trimmer	R-24	500,000 Ohms Carbon Resistor
C-35	100-400 Mmf. Osc. Station Trimmer	R-25	500,000 Ohms Carbon Resistor
C-36	100-400 Mmf. Osc. Station Trimmer	R-26	500,000 Ohms Carbon Resistor
C-37	7-65 Mmf. Osc. Station Trimmer	R-27	500,000 Ohms Carbon Resistor
C-38	20-180 Mmf. Osc. Station Trimmer	R-28	500,000 Ohms Carbon Resistor
C-39	100-400 Mmf. Osc. Station Trimmer	R-29	500,000 Ohms Carbon Resistor
C-40	100-400 Mmf. Osc. Station Trimmer	R-30	500,000 Ohms Carbon Resistor
C-41	7-65 Mmf. Osc. Station Trimmer	R-31	500,000 Ohms Carbon Resistor
C-42	20-180 Mmf. Osc. Station Trimmer	R-32	500,000 Ohms Carbon Resistor
C-43	100-400 Mmf. Osc. Station Trimmer	R-33	500,000 Ohms Carbon Resistor
C-44	100-400 Mmf. Osc. Station Trimmer	R-34	500,000 Ohms Carbon Resistor
C-45	7-65 Mmf. Osc. Station Trimmer	R-35	500,000 Ohms Carbon Resistor
C-46	20-180 Mmf. Osc. Station Trimmer	R-36	500,000 Ohms Carbon Resistor
C-47	100-400 Mmf. Osc. Station Trimmer	R-37	500,000 Ohms Carbon Resistor
C-48	100-400 Mmf. Osc. Station Trimmer	R-38	500,000 Ohms Carbon Resistor
C-49	7-65 Mmf. Osc. Station Trimmer	R-39	500,000 Ohms Carbon Resistor
C-50	20-180 Mmf. Osc. Station Trimmer	R-40	500,000 Ohms Carbon Resistor
C-51	100-400 Mmf. Osc. Station Trimmer	R-41	500,000 Ohms Carbon Resistor
C-52	100-400 Mmf. Osc. Station Trimmer	R-42	500,000 Ohms Carbon Resistor
C-53	7-65 Mmf. Osc. Station Trimmer	R-43	500,000 Ohms Carbon Resistor
C-54	20-180 Mmf. Osc. Station Trimmer	R-44	500,000 Ohms Carbon Resistor
C-55	100-400 Mmf. Osc. Station Trimmer	R-45	500,000 Ohms Carbon Resistor
C-56	100-400 Mmf. Osc. Station Trimmer	R-46	500,000 Ohms Carbon Resistor
C-57	7-65 Mmf. Osc. Station Trimmer	R-47	500,000 Ohms Carbon Resistor
C-58	20-180 Mmf. Osc. Station Trimmer	R-48	500,000 Ohms Carbon Resistor
C-59	100-400 Mmf. Osc. Station Trimmer	R-49	500,000 Ohms Carbon Resistor
C-60	100-400 Mmf. Osc. Station Trimmer	R-50	500,000 Ohms Carbon Resistor
C-61	7-65 Mmf. Osc. Station Trimmer	R-51	500,000 Ohms Carbon Resistor
C-62	20-180 Mmf. Osc. Station Trimmer	R-52	500,000 Ohms Carbon Resistor
C-63	100-400 Mmf. Osc. Station Trimmer	R-53	500,000 Ohms Carbon Resistor
C-64	100-400 Mmf. Osc. Station Trimmer	R-54	500,000 Ohms Carbon Resistor
C-65	7-65 Mmf. Osc. Station Trimmer	R-55	500,000 Ohms Carbon Resistor
C-66	20-180 Mmf. Osc. Station Trimmer	R-56	500,000 Ohms Carbon Resistor
C-67	100-400 Mmf. Osc. Station Trimmer	R-57	500,000 Ohms Carbon Resistor
C-68	100-400 Mmf. Osc. Station Trimmer	R-58	500,000 Ohms Carbon Resistor
C-69	7-65 Mmf. Osc. Station Trimmer	R-59	500,000 Ohms Carbon Resistor
C-70	20-180 Mmf. Osc. Station Trimmer	R-60	500,000 Ohms Carbon Resistor
C-71	100-400 Mmf. Osc. Station Trimmer	R-61	500,000 Ohms Carbon Resistor
C-72	100-400 Mmf. Osc. Station Trimmer	R-62	500,000 Ohms Carbon Resistor
C-73	7-65 Mmf. Osc. Station Trimmer	R-63	500,000 Ohms Carbon Resistor
C-74	20-180 Mmf. Osc. Station Trimmer	R-64	500,000 Ohms Carbon Resistor
C-75	100-400 Mmf. Osc. Station Trimmer	R-65	500,000 Ohms Carbon Resistor
C-76	100-400 Mmf. Osc. Station Trimmer	R-66	500,000 Ohms Carbon Resistor
C-77	7-65 Mmf. Osc. Station Trimmer	R-67	500,000 Ohms Carbon Resistor
C-78	20-180 Mmf. Osc. Station Trimmer	R-68	500,000 Ohms Carbon Resistor
C-79	100-400 Mmf. Osc. Station Trimmer	R-69	500,000 Ohms Carbon Resistor
C-80	100-400 Mmf. Osc. Station Trimmer	R-70	500,000 Ohms Carbon Resistor
C-81	7-65 Mmf. Osc. Station Trimmer	R-71	500,000 Ohms Carbon Resistor
C-82	20-180 Mmf. Osc. Station Trimmer	R-72	500,000 Ohms Carbon Resistor
C-83	100-400 Mmf. Osc. Station Trimmer	R-73	500,000 Ohms Carbon Resistor
C-84	100-400 Mmf. Osc. Station Trimmer	R-74	500,000 Ohms Carbon Resistor
C-85	7-65 Mmf. Osc. Station Trimmer	R-75	500,000 Ohms Carbon Resistor
C-86	20-180 Mmf. Osc. Station Trimmer	R-76	500,000 Ohms Carbon Resistor
C-87	100-400 Mmf. Osc. Station Trimmer	R-77	500,000 Ohms Carbon Resistor
C-88	100-400 Mmf. Osc. Station Trimmer	R-78	500,000 Ohms Carbon Resistor
C-89	7-65 Mmf. Osc. Station Trimmer	R-79	500,000 Ohms Carbon Resistor
C-90	20-180 Mmf. Osc. Station Trimmer	R-80	500,000 Ohms Carbon Resistor
C-91	100-400 Mmf. Osc. Station Trimmer	R-81	500,000 Ohms Carbon Resistor
C-92	100-400 Mmf. Osc. Station Trimmer	R-82	500,000 Ohms Carbon Resistor
C-93	7-65 Mmf. Osc. Station Trimmer	R-83	500,000 Ohms Carbon Resistor
C-94	20-180 Mmf. Osc. Station Trimmer	R-84	500,000 Ohms Carbon Resistor
C-95	100-400 Mmf. Osc. Station Trimmer	R-85	500,000 Ohms Carbon Resistor
C-96	100-400 Mmf. Osc. Station Trimmer	R-86	500,000 Ohms Carbon Resistor
C-97	7-65 Mmf. Osc. Station Trimmer	R-87	500,000 Ohms Carbon Resistor
C-98	20-180 Mmf. Osc. Station Trimmer	R-88	500,000 Ohms Carbon Resistor
C-99	100-400 Mmf. Osc. Station Trimmer	R-89	500,000 Ohms Carbon Resistor
C-100	100-400 Mmf. Osc. Station Trimmer	R-90	500,000 Ohms Carbon Resistor

Fig. 3. Trimmer Location

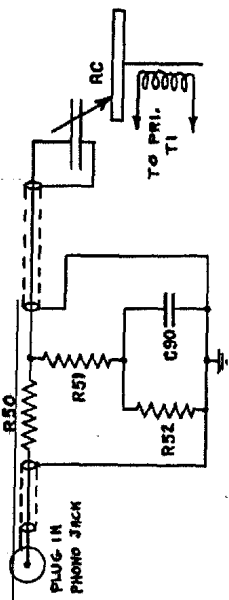


Fig. 4. Photograph Schematic

## ALIGNMENT PROCEDURE

The location of trimmers is shown in Fig. 3 and alignment procedure is given in table form below.

Before making the R.F. alignment make sure the pointer is set to the line at the extreme low frequency end of the dial scale when the gang condenser plates are closed. Output meter alignment is preferable and the meter may be connected across the voice coil leads, then turn volume control partially up. Keep the signal input as low as possible to avoid AVC action. Note—the wave trap trimmer C-12 is aligned to give minimum output.

## Alignment Chart

Step	Connect Test—Osc. to	Test—Osc. Setting	Pointer Setting	Adjust for
1	IF grid in series with .05 mfd.	455 KC	Band "B" 550 KC	Max. Output
2	Conv. grid in series with .05 mfd.	455 KC	Band "B" 550 KC	2nd IF primary and secondary
3	Ant. post in series with 200 mmf.	455 KC	Band "B" 550 KC	1st IF primary and secondary
4	Ant. post in series with 200 mmf.	21 MC	Band "D" 21 MC	C-12 *
5	Ant. post in series with 200 mmf.	6 MC	Band "C" 6 MC	Osc. (C-9) ** R.F. Ant. (C-2)
6	Ant. post in series with 200 mmf.	1600 KC	Band "B" 1500 KC	Osc. (C-9) ** R.F. Ant. (C-2)
7	Ant. post in series with 200 mmf.	680 KC	Band "B" 580 KC	Osc. (C-10) R.F. Ant. (C-4)
8				Osc. (C-11) ** R.F. Ant. (C-11) **

\* Peak for minimum output.

\*\* Use minimum capacity peak.

\*\*\* Rock gang condenser when making alignment.

Repeat operation 6.