



SCHMATIC DIAGRAM FOR CH CHASSIS BEARING SERIAL NUMBERS BELOW 2,395,000

PRODUCTION CHANGES

- Chassis bearing serial numbers below 2,395,000 differ from the above as follows:

T4	4XT-458	Oscillator coil. (See production change no. 2)
T2	4XT-434	Double-tuned 455 kc first i-f transformer
T3	4XT-435	Double-tuned 455 kc second i-f transformer
R4	KR-57	1 megohm 1/4 watt carbon resistor
R9, R10	4XW-112	Resistance line cord with pilot light section (R9—150 ohms; R10—40 ohms)
C13	AC-6	0.1 mf, 200 volt tubular condenser
C20, C21	4HC-348B	Dual 20 mf, 150 volt dry electrolytic condenser
	4BL-94	Pilot light, 6.3 volt, .25 amp., Mazda No. 44
	4XS-324	4" dynamic speaker
	4XZ-811C	Dial drive shaft
- Chassis which use oscillator coil 4XT-458 may use 6JT-467 or 6JT-467A as replacement. For correct lug connections for either of the three coils see illustration on next page.
- Condenser C12 is not used in CH chassis which have the negative connected to the chassis.
- Not used in CL above 2,656,950.

VOLTAGE ANALYSIS

Readings should be taken with a 1000 ohms-per-volt meter. Voltages listed below are from point indicated to B minus (line switch) with the volume control turned on full and no signal. Line voltage for these readings was 117.5 volts, 60 cycles, a.c. All readings except heaters and cathodes were taken on 250 volt scale. Measurements made with 117.5 volts d.c. will be lower than those given below.

FOR CH SERIAL NUMBERS BELOW 2,395,000:

FOR CH SERIAL NUMBERS ABOVE 2,395,000 AND CL SERIAL NUMBERS BELOW 2,656,950:

Tube	Plate	Screen	Cathode	Osc. Plate	Fil.
6A8	100	55	0	100	6.3
6K7	100	100	0	—	6.3
6Q7	43	—	0	—	6.3
25L6	92	100	5.5	—	25.0

Tube	Plate	Screen	Cathode	Osc. Plate	Fil.
12A8	94	50	0	94	12
12K7	94	94	0	—	12
12Q7	40	—	0	—	12
†35L6	87	94	5.2	—	35

Voltage at 25Z6 cathode—125 volts.

Voltage across speaker field—28 volts.

Voltage across pilot light—4 volts.

‡Voltage at 35Z4 cathode—121 volts.
Voltage across speaker field—27 volts.
Voltage across pilot light section of ballast resistor (R9)—3.5.
Voltage drop across entire ballast resistor (R9 and R10)—13.5.

†Plate and screen voltages for 50L6 are 5% lower.
Heater voltage—50 volts.
‡Voltage at 35Z3 cathode—115 volts.