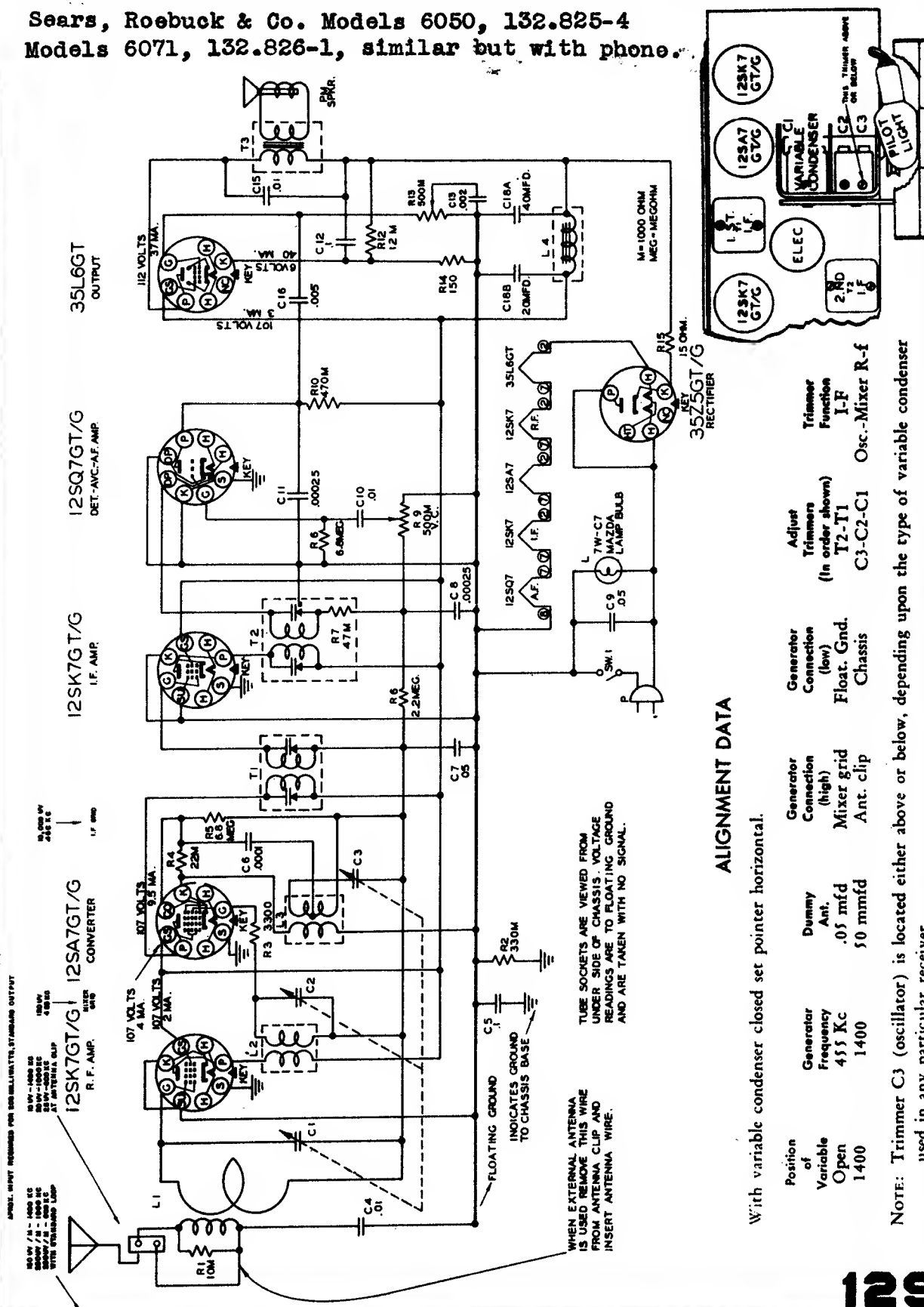


Sears Roebuck & Co.

	Model: 6050	Chassis:	Year: Pre March 1942
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Beitmans 1947 129			
Riders 13 (XIII) SEARS 13-15			
Riders 19 (XIX) SEARS 19-1			
Riders 19 (XIX) SEARS 19-2			
Riders 19 (XIX) SEARS 19-3			
Riders 19 (XIX) SEARS 19-4			
Riders 19 (XIX) SEARS 19-5			

Sears, Roebuck & Co. Models 6050, 132.825-4
Models 6071, 132.826-1, similar but with phone.



With variable condenser closed set pointer horizontal.

NOTE: Trimmer C3 (oscillator) is located either above or below, depending upon the type of variable condenser used in any particular receiver.

SUBJECT: DIFFERENCES BETWEEN 101.503 AND 101.503-1:

Chassis identified by 101.503-1 use 455 kc IF instead of 465 kc as used in 101.503. Different knobs and a different volume control also are used.

SELLING
PRICE
EACH

PART NUMBER DESCRIPTION

1012418877 Control - Volume, with switch
1013318804 Knob - Tuning
1013318803 Knob - Volume
1015820102 Leaflet - Instruction

JAN. 11, 1939

IF PEAK 455 KC

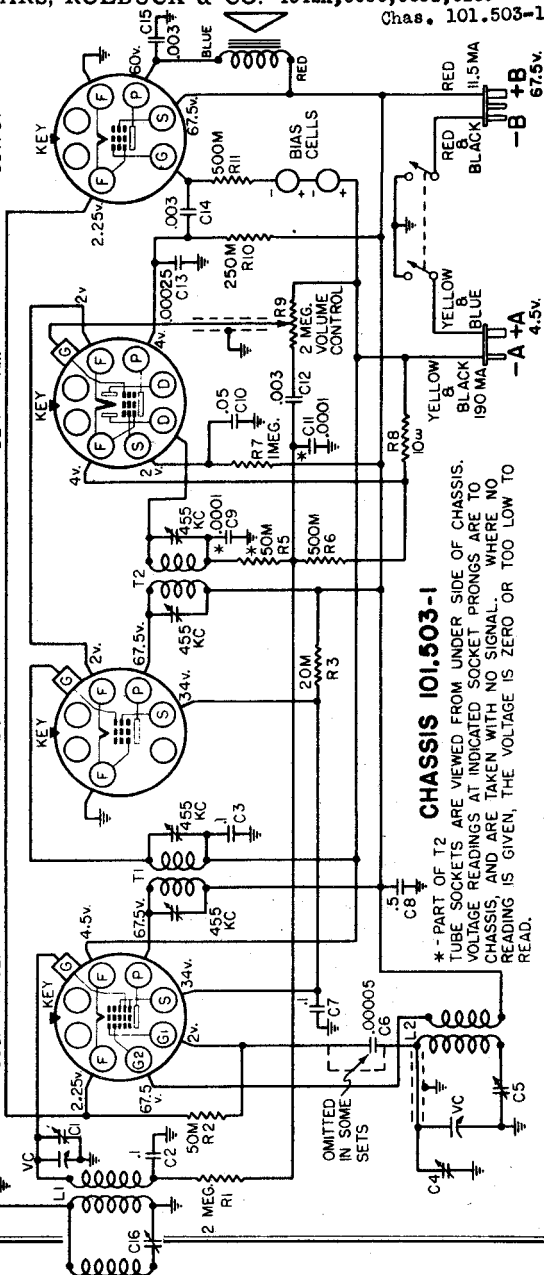
The .5 mfd. condenser, listed as C5 in the original Manual should have been listed as C8. The wiring diagram for 101.503-1, incorporating two or three minor resistor value changes, is shown.

**IC7G
OSC. TRANS.**

**ID5GP
LF.**

**IF7G, IF7GH OR IF7GV
DET.-1ST A.F.**

**IG5G
OUTPUT**



CHASSIS 101.503-1

* - PART OF T2
TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS.
VOLTAGE READINGS AT INDICATED SOCKET PRONGS ARE TO
CHASSIS, AND ARE TAKEN WITH NO SIGNAL, WHERE NO
READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO
READ.

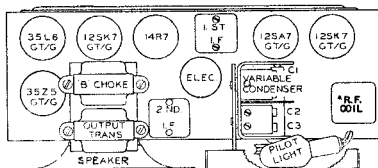
SEARS, ROEBUCK & CO. 4642A, 6050, 6051, 6150

Chas. 101.503-1

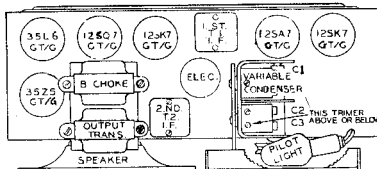
SEARS PAGE 13-15

SEARS, ROEBUCK & CO.

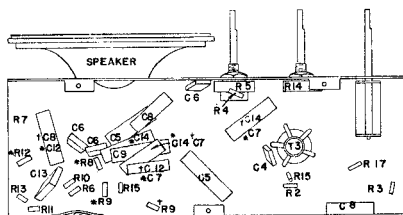
MODEL 6050, CHASSIS
 132.825, 132.825-1,
 132.825-2, 132.825-3,
 132.825-4



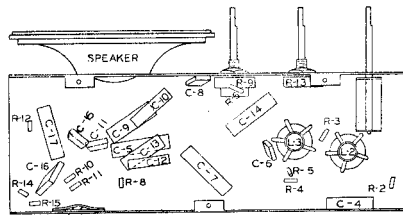
ON THE 132.825-2 CHASSIS THE RF COIL IS MOUNTED UNDER THE CHASSIS.
 LOCATION OF PARTS ON TOP OF CHASSIS
 132.825, 132.825-1, & 132.825-2



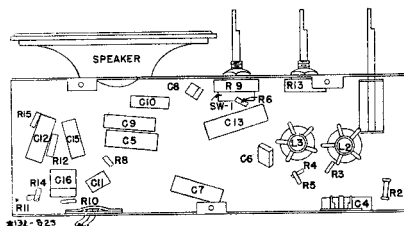
LOCATION OF PARTS ON TOP OF CHASSIS
 132.825-3 & 132.825-4



LOCATION OF PARTS UNDER CHASSIS
 132.825 AND 132.825-1

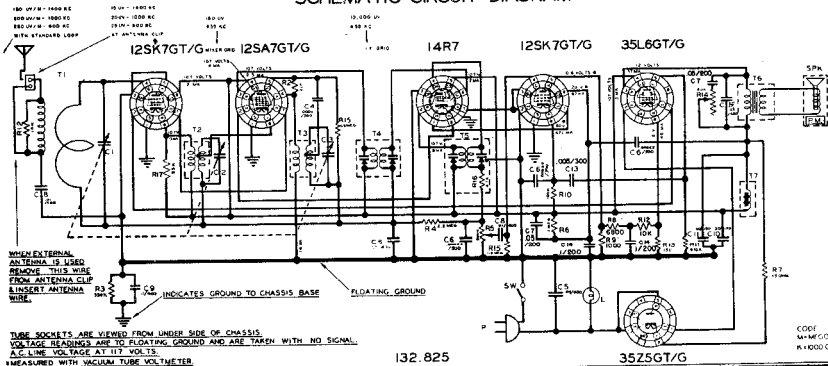


LOCATION OF PARTS UNDER CHASSIS
 132.825-2



LOCATION OF PARTS UNDER CHASSIS
 132.825-3 AND 132.825-4

SCHEMATIC CIRCUIT DIAGRAM



MODEL 6050, CHASSIS
132.825, 132.825-1,
132.825-2, 132.825-3,
132.825-4

SEARS, ROEBUCK & CO.

SCHEMATIC CIRCUIT DIAGRAM

WHEN EXTERNAL ANTENNA IS USED, REACHES TOWARD IT FROM ANTENNA COIL. NO ANTENNA WIRE.

INDICATES GROUND TO CHASSIS BASE

FLOATING GROUND

TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS ARE TO FLOATING GROUND AND ARE TAKEN WITH NO SIGNAL.

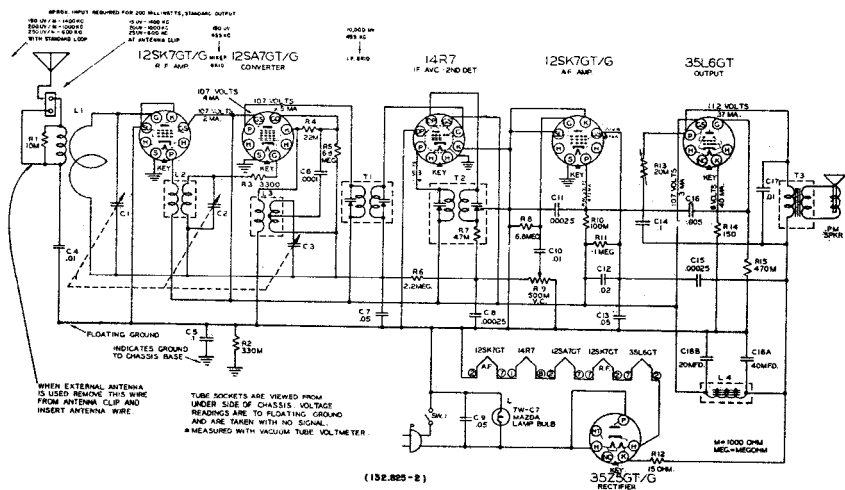
A-C LINE VOLTAGE 117 VOLTS MEASURED WITH VACUUM TUBE VOLTMETER

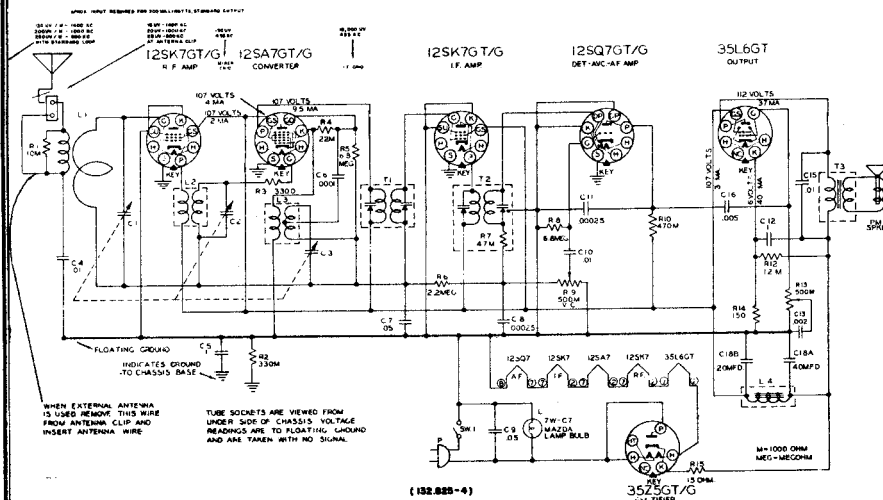
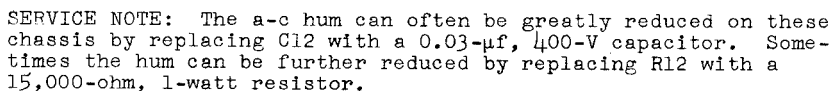
132-825-1

35L6GT/G

CODE M4000000 R-6000 0004

CODE
M = MEGOHM
K = 1000 OHM





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MODEL 6050, CHASSIS SEARS, ROEBUCK & CO.
 132.825, 132.825-1,
 132.825-2, 132.825-3,
 132.825-4

SPECIFICATIONS

Power Supply -- 105-125 Volts AC-DC, 45 Watts Tuning Range Broadcast Band 540-1600 Kc
 Power Output Speaker
 Undistorted .8 Watts, maximum - 2.5 Watts Voice Coil Impedance 3.2 Ohms
 CHASSIS DIFFERENCES

Note: On a few of the 132.825 chassis, a 470 ohm resistor was placed across the heater of the 14R7 tube to equalize the warm up period of the tubes. This is not shown on the Circuit Diagram.

132.825-1

Addition of Suffix Number - 1 to Chassis Identification Number 132.825 covers the following changes from the 132.825 chassis.

1. Removal of the bass boost circuit to reduce hum.
2. Change in tone control circuit.
3. Circuit changes as follows: Tone control condenser C14, .1 mfd. 200V was C7, .05 mfd., 200V; C8, .01 mfd. 400V fixed tone condenser in output circuit was C12, .02 mfd. 400V; C13, .005 mfd., 600V was .005 mfd., 300V; R9, 470 ohm 1/4 watt resistor added to 14R7 tube socket between heater lugs; C12, .02 mfd., 400V was C7, .05 mfd., 200V, on 12SK7 screen grid to floating ground. C14, .1 mfd., 200V condenser; R8, 6800 ohm 1/4 watt resistor, R9 1,000 ohm 1/4 watt resistor and R12, 10,000 ohm 1/4 watt resistor deleted from cathode circuit of 12 SK7 and 35L6 tubes.
4. Revision of parts price list; schematic diagram: and parts layout.

132.825-2

Addition of Suffix Number 2 to Chassis Identification Number 132.825 covers the following changes from the 132.825-1 chassis.

1. RF coil N18598 is replaced by RF coil N19860.
2. The RF coil location is changed from the top of chassis to under chassis.
3. 470 ohm resistor deleted from 14R7 tube heater circuit.
4. The schematic diagram is redrawn with rearrangement of schematic location symbols in consecutive order from left to right without duplication.
5. Rearrangement of schematic location symbols on parts list and parts location drawings to correspond with schematic diagram.

132.825-3

Addition of Suffix Number - 3 to Chassis Identification Number 132.825 covers the following changes from the 132.825-2 chassis.

1. Addition of 12SQ7 tube and deletion of 14R7 tube.
2. Addition of hum bucking circuit in output stage (C12 & R12) from B+ to cathode of 35L6 tube, to replace the hum bucking circuit used in the 12SK7 screen grid circuit. Resistor R11, 1 megohm, 1/4 watt; and condensers C13, .05 mfd., C12 .02 mfd., and C15 .00025 mfd. deleted.
3. Resistor R10, in the plate circuit of the first audio tube changed from 100,000 ohms to 470,000 ohms.
4. Revision of parts price list; schematic diagram and parts and tube layouts.

Note: All schematic diagrams on the instruction sheets and chassis stickers supplied with radios bearing the chassis number 132.825-3 are incorrect. They show the secondary of the second IF transformer connected to the grid of the 12SQ7 tube, and both diodes of the tube connected to floating ground. The schematic diagram on this RL has been corrected.

132.825-4

Addition of Suffix Number - 4 to the Chassis Identification Number 132.825, covers the following changes from the 132.825-3 chassis.

1. Tone control changes from plate circuit to grid circuit of output tube.
2. Resistor R13, 500,000 ohms, part #N19967 was 20,000 ohms, N19530. Resistor R11, 470,000 ohms 1/4 watt deleted; condenser C13, .002 mfd. 600V was .1 mfd. 200V.
3. Revision of parts price list, and schematic diagram.

SEARS, ROEBUCK & CO.

MODEL 6050, CHASSIS
132.825, -1, -2, -3, -4

PARTS LIST

132.825 & 132.825-1

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
R2		Resistor, 22,000 ohm, 1 watt			
R3		Resistor, 330,000 ohm, 1/2 watt	C13		Condenser, .005 mfd., 500 volt (132.825-1)
R4		Resistor, 5.6 megohm, 1/2 watt	C13		Condenser, .005 mfd., 300 volt (132.825-1)
R5	N19520	Resistor, 500,000 ohm, vol. cont. & a.w.	C14		Condenser, 1 mfd., 500 volt
R7		Resistor, 1 megohm, 1/2 watt			Cabinet back with Antenna Loop Assy.
R8		Resistor, 15 ohm, 1 watt	N19516		Coil, R. F.
R9		Resistor, 6800 ohm, 1/2 watt (132.825)	N18580		Coil, Oscillator
R10		Resistor, 1000 ohm, 1/2 watt (132.825)	N18581		Transformer, 1st I. F.
R11		Resistor, 470 ohm, 1/2 watt (132.825-1)	N18576		Transformer, 2nd I. F.
R12		Resistor, 100,000 ohm, 1/2 watt	N18582		Transformer, Output
R13		Resistor, 470,000 ohm, 1/2 watt	N18583		Choke, Iron Core "B"
R14		Resistor, 10,000 ohm, 1/2 watt (132.825)	N18580		Speaker, 8 1/2 in. Full-Range Output Trans & Choke
R15	N19530	Resistor, 150 ohm, 1 watt	N20004		Line Cord with Plug
R16		Resistor, 50,000 ohm, 1/2 watt			Lamp, Dial, Mazda "WOC 117V"
R17		Resistor, 6.8 megohm, 1/2 watt	N19463		Knob, walnut, volume
R18		Resistor, 25,000 ohm, 1/2 watt	N19469		Knob, walnut, tuning
R19		Condenser, variable	N19468		Knob, walnut, tone
C4	N18564	Condenser, .0001 mfd., 500 volt, mica	N19533		Scale, Dial
C5		Condenser, .05 mfd., 400 volt	N19112		Scintograph, dial with crystal
C6		Condenser, .00025 mfd., 500 volt, mica	N19526		Pointer, Dial
C7		Condenser, .05 mfd., 200 volt			Instruction Sheet (132.825)
C8		Condenser, .01 mfd., 400 volt	N19523-1		Instruction Sheet (132.825-1)
C9		Condenser, .1 mfd., 400 volt	N19528		Tuning Shaft
C10	N19259	Condenser, Electro, 20-40 mfd., 150 volt	N19132		Cord, Dial Drive
C12		Condenser, .05 mfd., 400 volt	N19234		Socket, Antenna
			N19134		Socket, Dial Light with Leads

132.825-2, 132.825-3, & 132.825-4

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
R1		Resistor, 10,000 ohm, 1 watt	C15		Condenser, .00025 mfd., 500 volt Mica (132.825-2)
R2		Resistor, 330,000 ohm, 1/2 watt	C15		Condenser, .01 mfd., 400 volt (132.825-3 & -4)
R3		Resistor, 3,300 ohm, 1 watt	C15		Condenser, .025 mfd., 400 volt Mica
R4		Resistor, 25,000 ohm, 1 watt	C15		Condenser, .01 mfd., 400 volt (132.825-2)
R5		Resistor, 5.6 megohm, 1/2 watt	C16A-13B	N19259	Cabinet back with Antenna Loop Assy.
R6		Resistor, 1.5 megohm, 1/2 watt	C17		Coil, R. F.
R7		Resistor, 47,000 ohm, 1 watt	C18		Coil, Oscillator
R8	N19520	Resistor, 500,000 ohm, vol. cont. & a.w.	C19		Coil, Iron Core "B"
R9		Resistor, 470,000 ohm, 1/2 watt (132.825-1 & -4)	N19209		Transformer, 1st I. F. (132.825-2 & -4)
R10		Resistor, 100,000 ohm, 1/2 watt (132.825-2)	N19210		Transformer, 2nd I. F. (132.825-2)
R11		Resistor, 1 megohm, 1/2 watt (132.825-3)	N19211		Transformer, Output
R12		Resistor, 10,000 ohm, 1 watt (132.825-3 & -4)	N18582		Choke, Iron Core "B"
R13		Resistor, 15 ohm, 1 watt (132.825-2)	N18583		Speaker, 8 1/2 in. Full-Range Output Trans & Choke
R14	N19530	Resistor, 150 ohm, 1 watt	N18580		Line Cord with Plug
R15	N19067	Resistor, 500,000 ohm, vol. cont. (132.825-2 & -3) Spec.			Lamp, Dial, Mazda "WOC 117V"
R16		Resistor, 100,000 ohm, 1/2 watt (132.825-2)	N19463		Knob, Walnut
R17		Resistor, 470,000 ohm, 1 watt (132.825-2)	N19469		Knob, Tuning
R18		Resistor, 15 ohm, 1 watt (132.825-3 & -4)	N19468		Knob, Tone
C1	N18564	Condenser, Variable	N19533		Scale, Dial
C2		Condenser, .01 mfd., 400 volt	N19112		Scintograph, Dial with Crystal
C3		Condenser, .05 mfd., 400 volt	N19526		Pointer, Dial
C4		Condenser, .0001 mfd., 500 volt Mica	N19523-1		Tuning Shaft
C5		Condenser, .00025 mfd., 500 volt Mica	N19132		Cord, Dial Drive
C6		Condenser, .05 mfd., 200 volt (132.825-2)	N19234		Socket, Antenna
C7		Condenser, .01 mfd., 400 volt (132.825-3 & -4)	N19134		Socket, Dial Light with Leads
C8		Condenser, .05 mfd., 200 volt (132.825-3)	N19210		Transformer, 1st I. F. (132.825-2)
C9		Condenser, .1 mfd., 400 volt (132.825-3)	N19211		Transformer, 2nd I. F. (132.825-2)
C10		Condenser, .005 mfd., 500 volt (132.825-2)	N19211		Transformer, Output
C11		Condenser, .1 mfd., 400 volt (132.825-2)	N18582		Choke, Iron Core "B"
C12		Condenser, .05 mfd., 200 volt (132.825-2)	N18583		Speaker, 8 1/2 in. Full-Range Output Trans & Choke
C13		Condenser, .01 mfd., 400 volt (132.825-2)	N18580		Line Cord with Plug
C14		Condenser, .05 mfd., 200 volt (132.825-2)			Lamp, Dial, Mazda "WOC 117V"

PRELIMINARY:

ALIGNMENT PROCEDURE

Output meter connection..... Across Speaker Voice Coil
 Output meter reading to indicate 200 mw (Standard output)..... .8 Volts
 Dummy antenna value used in series with generator output..... See Chart Below
 Connection of generator output lead..... See Chart Below
 Connection of generator ground lead..... Floating Ground
 Generator modulation..... 300 400 Cycles
 Position of volume control..... Fully clockwise
 Position of tone control..... Treble
 Position of dial pointer with variable fully closed..... Horizontal

POSITION OF VARIABLE	FREQUENCY OF GENERATOR	DUMMY ANTENNA	GENERATOR OUTPUT CONNECTION	TRIMMERS ADJUSTED IN ORDER SHOWN FOR MAX. OUTPUT	FUNCTION OF TRIMMER
Open	455	.05 mfd.	12SA7 Grid (or Stator of C-2)	Top of 2nd & 1st IF Trans.	IF
1400	1400	.0002 mfd.	Antenna Clip (with black wire removed)	C-3; C-2; & C-1 Trimmers located on variable condenser	Oscillator Mixer RF

IMPORTANT ALIGNMENT NOTES:

1. Place set loop in the same position and at the same distance with respect to the back of the chassis as it would be when the set is mounted in the cabinet, during alignment of the RF stage.
2. If a standard test loop is used with the Signal Generator for alignment of the receiver, the black wire will be left in the antenna clip.
3. The alignment procedure should be repeated in the original order for greatest accuracy. Always keep the output from the signal generator at its lowest possible value to make the A.V.C. action of the receiver ineffective.