

MODELS 6003, 6004, 6024
6034, 6124, 6134
Chassis 101, 510

SEARS-ROEBUCK & CO.

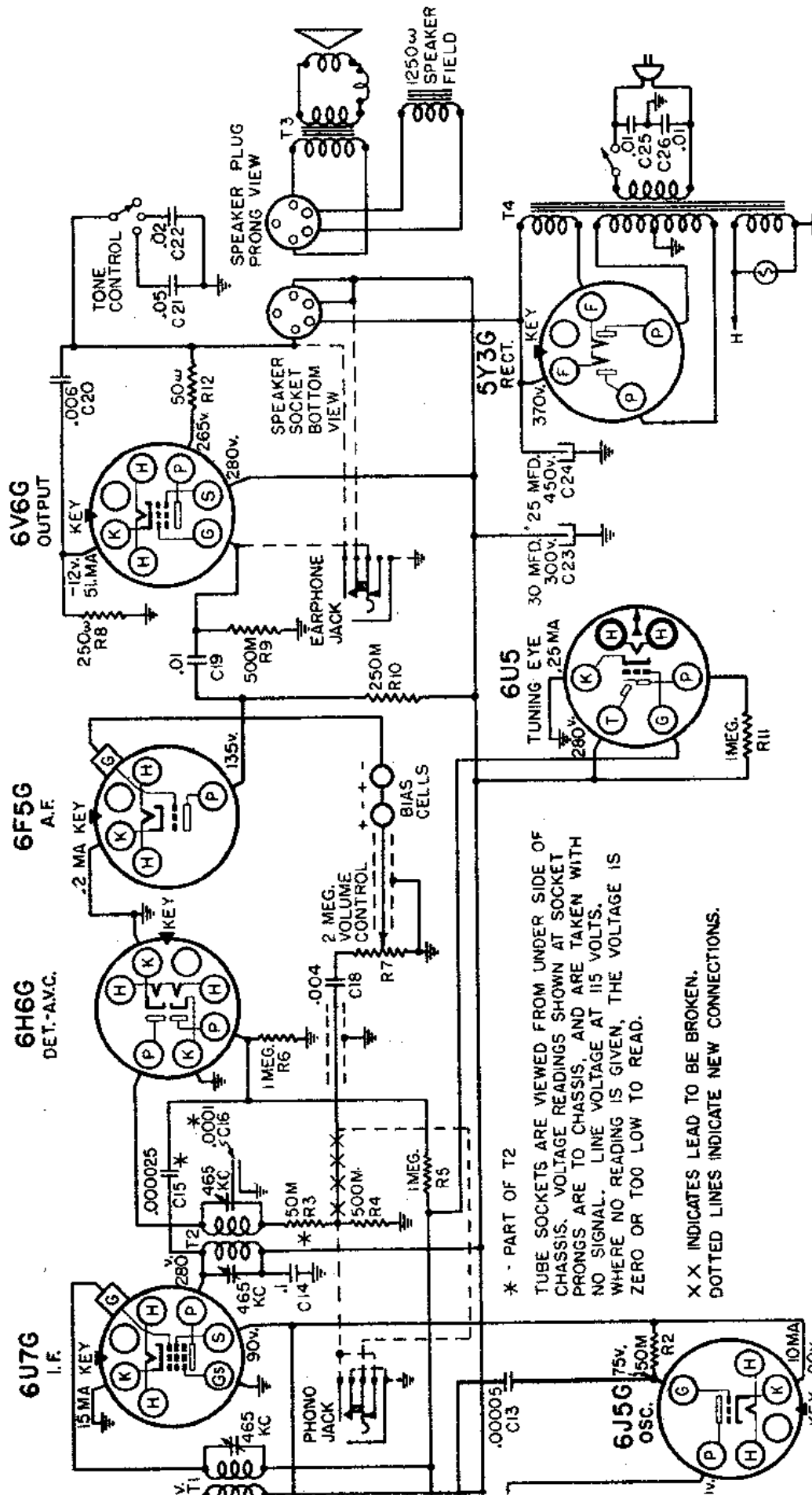
Jacks Installation
Schematic
Alignment

SUBJECT: CONNECTION OF EARPHONE AND PHONOGRAPH PICKUP JACKS:

Part number 1015119531 Jack, for connection of earphones or phonograph pick-up, can be ordered directly from source 101. Retail selling price is 79¢.

The schematic section on the back of this sheet shows the connections.

If a crystal pick-up is used, a filter composed of a .01 mfd. condenser and a 100M ohm resistor connected in series, should be connected across the pick-up to prevent excessive bass response. This filter will also act as a partial scratch filter.



* - PART OF T2
TUBE SOCKETS ARE VIEWED FROM UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET PRONGS ARE TO CHASSIS, AND ARE TAKEN WITH NO SIGNAL. LINE VOLTAGE AT 115 VOLTS. WHERE NO READING IS GIVEN, THE VOLTAGE IS ZERO OR TOO LOW TO READ.
X X INDICATES LEAD TO BE BROKEN.
DOTTED LINES INDICATE NEW CONNECTIONS.

WAVE BAND SWITCH POSITION	GENERATOR FREQUENCY	DUMMY ANTENNA CONNECTION	GENERATOR CONNECTION	TRIMMER ADJUSTED (IN ORDER SHOWN)	TRIMMER FUNCTION	APPROXIMATE MICROVOLTS
"AM" Closed	485 kc	.1 mfd.	6A80 Grid	T3, T1	IF Output IF Input	90
"SW" 15 mc (rook)	15 mc	400 ohms	Ant. Term.	C5	Translator	50
"9FOR" 9.55 mc	9.55 mc	400 ohms	Ant. Term.	C7*	Oscillator Translator	80
"AM" Fully open	1730 kc	.0003 mfd.	Ant. Term.	C8	Oscillator	90
"AM" 1400 kc	1400 kc	.0002 mfd.	Ant. Term.	C3, C2	Transl., Ant.	75
"AM" 500 kc(rook)	500 kc	.0003 mfd.	Ant. Term.	C9	Padder	80

IMPORTANT ALIGNMENT NOTES

The alignment must be done in the order given.
*Two peaks can be had, one with the trimmer screwed further out than the other. The correct adjustment is with the trimmer screwed further out. The other peak is the image.
Where indicated by the word, "Rook", the variable should be rooked back and forth a degree or two while making the adjustment.
The alignment procedure should be repeated stage by stage, in the original order, for greatest accuracy. Always keep the output from the test oscillator at its lowest possible value to make the AVC action of the receiver ineffective.

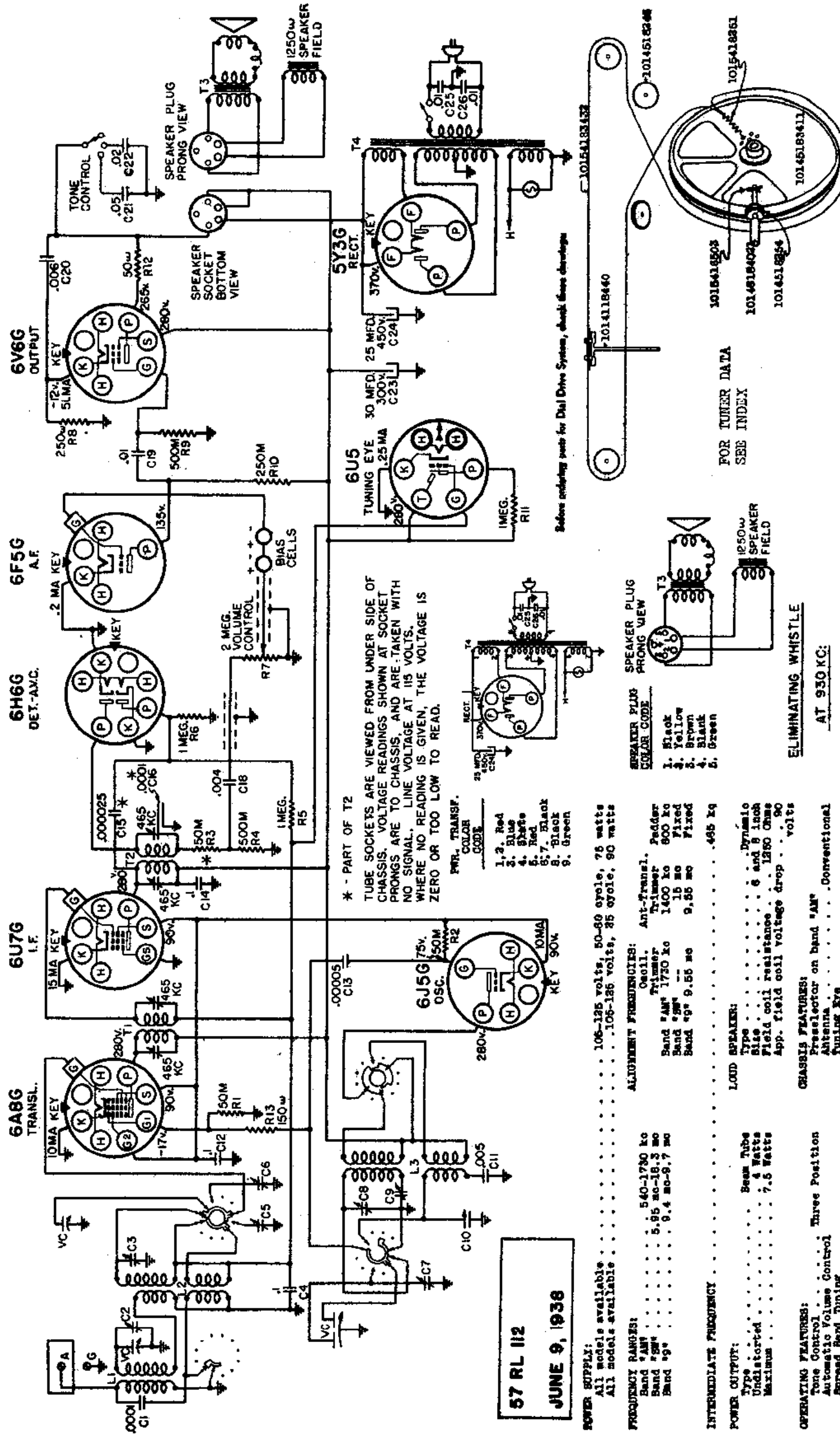
ALIGNMENT PROCEDURE

- Output meter connection Across loud speaker voice coil
- Output meter reading to indicate 500 milliwatts 0.85 volts
- Average sensitivity in microvolts for 500 milliwatts output See chart below
- Generator ground lead connection Receiver chassis
- Dummy antenna value to be in series with generator output See chart below
- Connection of generator output lead See chart below
- Generator modulation 30%, 400 cycles
- Position of Volume Control Fully clockwise
- Position of Tone Control HI
- Position of Dial Pointer with variable fully closed Center of block to left of 550 kc calibration mark.

Schematic, Voltage Drive Data

SEARS-ROEBUCK & CO.

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Chassis 101.510



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- PWR. TRANSF. COLOR CODE
1. 2. Red
 3. Blue
 4. White
 5. Red
 6. 7. Black
 8. Black
 9. Green

- ALignment FREQUENCIES:
- | | | |
|---------|-------------|---------|
| Coil | Ant-Transl. | Padder |
| Band #1 | 1730 kc | 1400 kc |
| Band #2 | --- | 15 mc |
| Band #3 | 9.55 mc | 9.55 mc |

- LOAD SPEAKER:
- | | |
|------------------------------|-----------|
| Type | Beam Tube |
| Size | 4 Watts |
| Field coil resistance | 1250 Ohms |
| App. field coil voltage drop | 90 volts |

- CHASSIS FEATURES:
- Press selector on band "AM"
 - Antenna
 - Tuning Eye

57 RL 112
JUNE 9, 1936

- POWER SUPPLY:
- All models available
 - All models available

- OPERATING FREQUENCIES:
- Band #1
 - Band #2
 - Band #3

- OPERATING FEATURES:
- Tone Control
 - Automatic Volume Control
 - Spread Band Tuning
 - Push Button Tuning (8 button)

- INTERMEDIATE FREQUENCY:
- 540-1730 kc
 - 5.95 mc-18.3 mc
 - 9.4 mc-9.7 mc

- MECHANICAL SPECIFICATIONS:
- Control Operation
 - Turning right
 - Turning left
 - Turning right
 - Tuning ratio

- OPERATING CONTROLS:
1. Upper left knob
 2. Lower left knob
 3. Lower right knob
 4. Upper right knob

- OPERATING CONTROLS:
1. Volume increase
 2. "HI", "MID", "LO"
 3. "AM", "FM"
 4. Station Selector

- FOR TUNER DATA SEE INDEX

- ELIMINATING WHISTLE AT 930 KC.

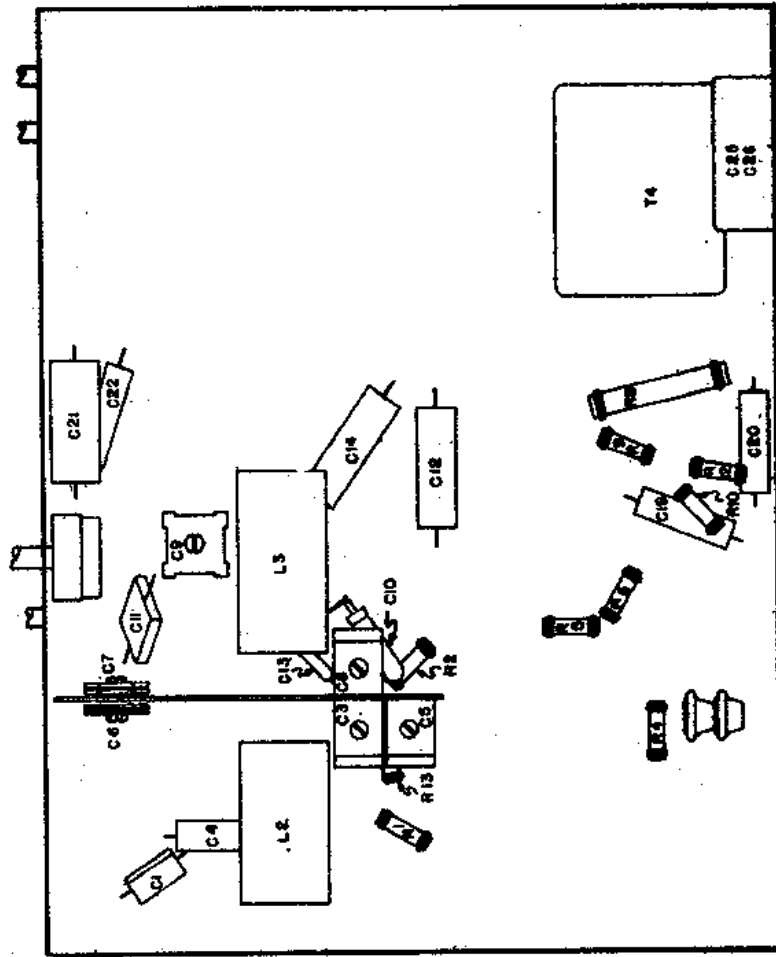
A whistle, due to a beat between the second harmonic (930 kc) of the 485 kc IF and a 930 kc signal may be experienced. In localities where the 930 kc station is one that is frequently listened to, it will be desirable to shift the whistle to some other point where it will not be objectionable. This can be done by shifting the IF frequency of the receiver. Determine at what point between 900 kc and 960 kc the whistle will be least objectionable. Dividing this frequency by two will give the new IF frequency to which the receiver should be aligned. For example, if it is determined that a whistle at 915 kc would not be objectionable, the IF should be realigned at 915/2 or 457.5 kc. Try to select the new IF frequency as close as possible to 485 kc.

Align the IF at the new frequency and then realign the rest of the receiver as described under "Eliminating Interference".

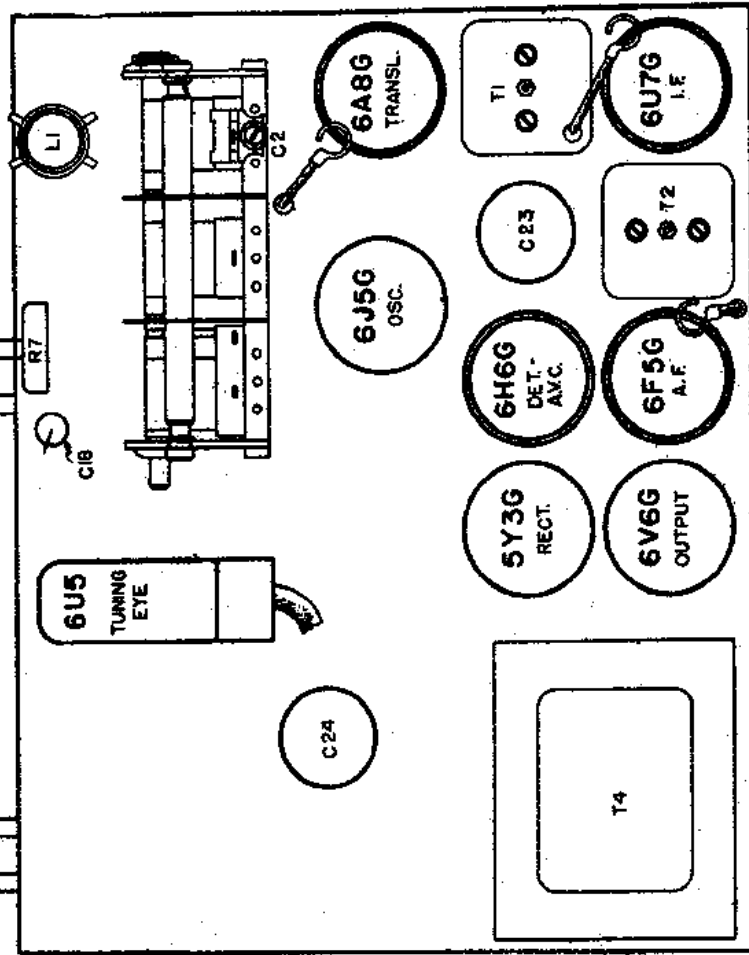
MODELS 6003, 6004, 6024
6034, 6124, 6134
Chassis 101.510

SEARS-ROEBUCK & CO.

MODELS 6005, 6071, 6076
6171, 6176. Ch. 101.507
Socket, Trimmers, Chassis



LOCATIONS OF PARTS UNDER CHASSIS.
MODELS 6003, 6004, 6024, 6034, 6124, 6134
CHASSIS 101.510



LOCATIONS OF PARTS ON TOP OF CHASSIS.

SILVERTONE BATTERY CHARGERS AVAILABLE:

The customer should be told about the SILVERTONE GAS-O-POWER and the SILVERTONE SUPER AIR-CHARGER. Either of these units provides an economical means of keeping the storage battery charged. The customer should be informed of the advisability of frequent hydrometer testing of the storage battery to prevent it from becoming too low in charge. A battery that is allowed to run too low before re-charging will not have as long a life as one that is re-charged more frequently.

LOUD SPEAKER:

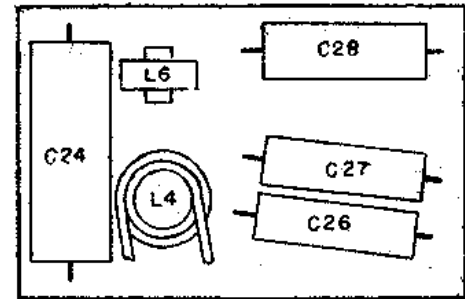
Type PM Dynamic
Size 6"

POWER OUTPUT:

Type Pentode
Undistorted25 watts
Maximum6 watts

CHASSIS FEATURES:

Number of IF stages One
Number condenser in gang Two
Antenna Conventional
Tuning Eye
Built-in IF Wave Trap
Synchronous Vibrator-Rectifier



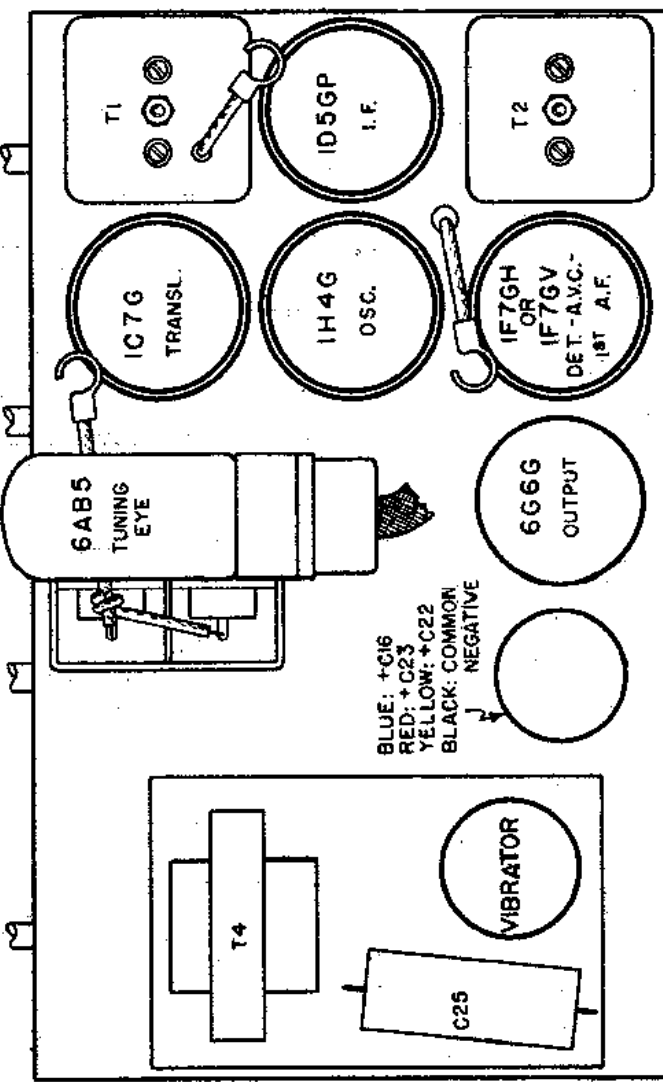
LOCATIONS OF PARTS UNDER POWER SUPPLY

MODELS 6005, 6071, 6076
6171, 6176 CHASSIS 101.507

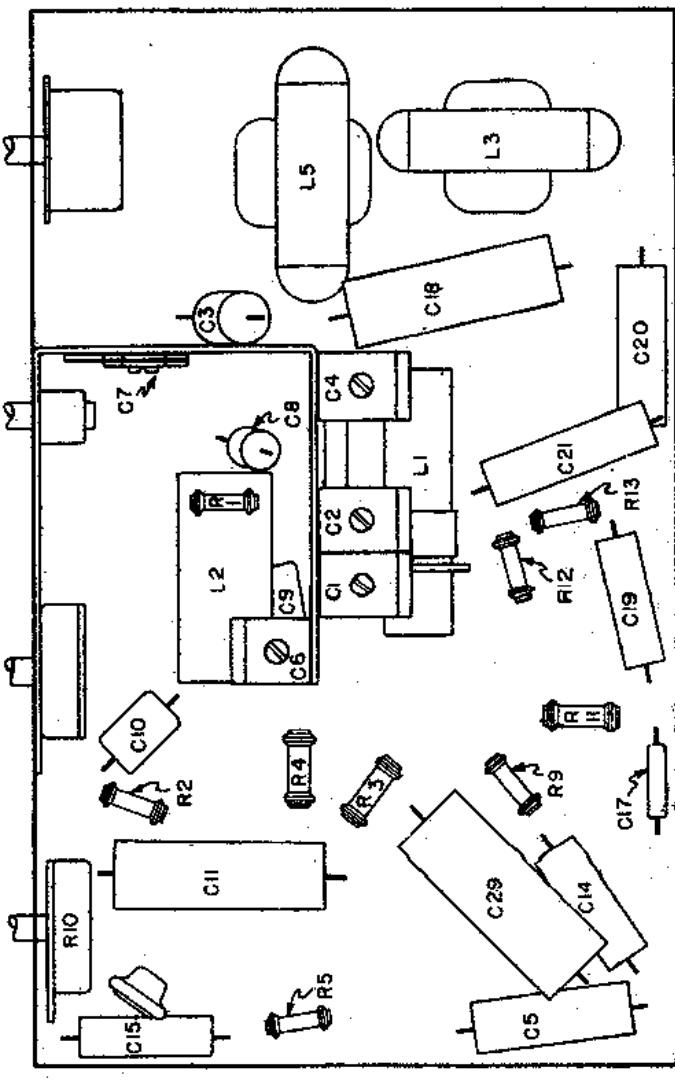
OPERATING FEATURES:
Tone Control Two position
Automatic Volume Control

OPERATING CONTROLS:
1. Left knob Volume Control
2. Next to left knob Wave Station Selector
3. Next to right knob On-Off Switch and Tone Control
4. Right knob On-Off Switch and Tone Control

CONTROL OPERATION:
Turning right: "A"
Turning right: "A"
Turning ratio: 12:1
Turning right: On, "HI"; "LO"



LOCATIONS OF PARTS ON TOP OF CHASSIS.



LOCATIONS OF PARTS UNDER CHASSIS.

Courtesy Nostalgia Air