

Sears Roebuck & Co.

Model: 6136

Chassis:

Year: Pre August 1939

Power:

Circuit:

IF:

Tubes:

Bands:

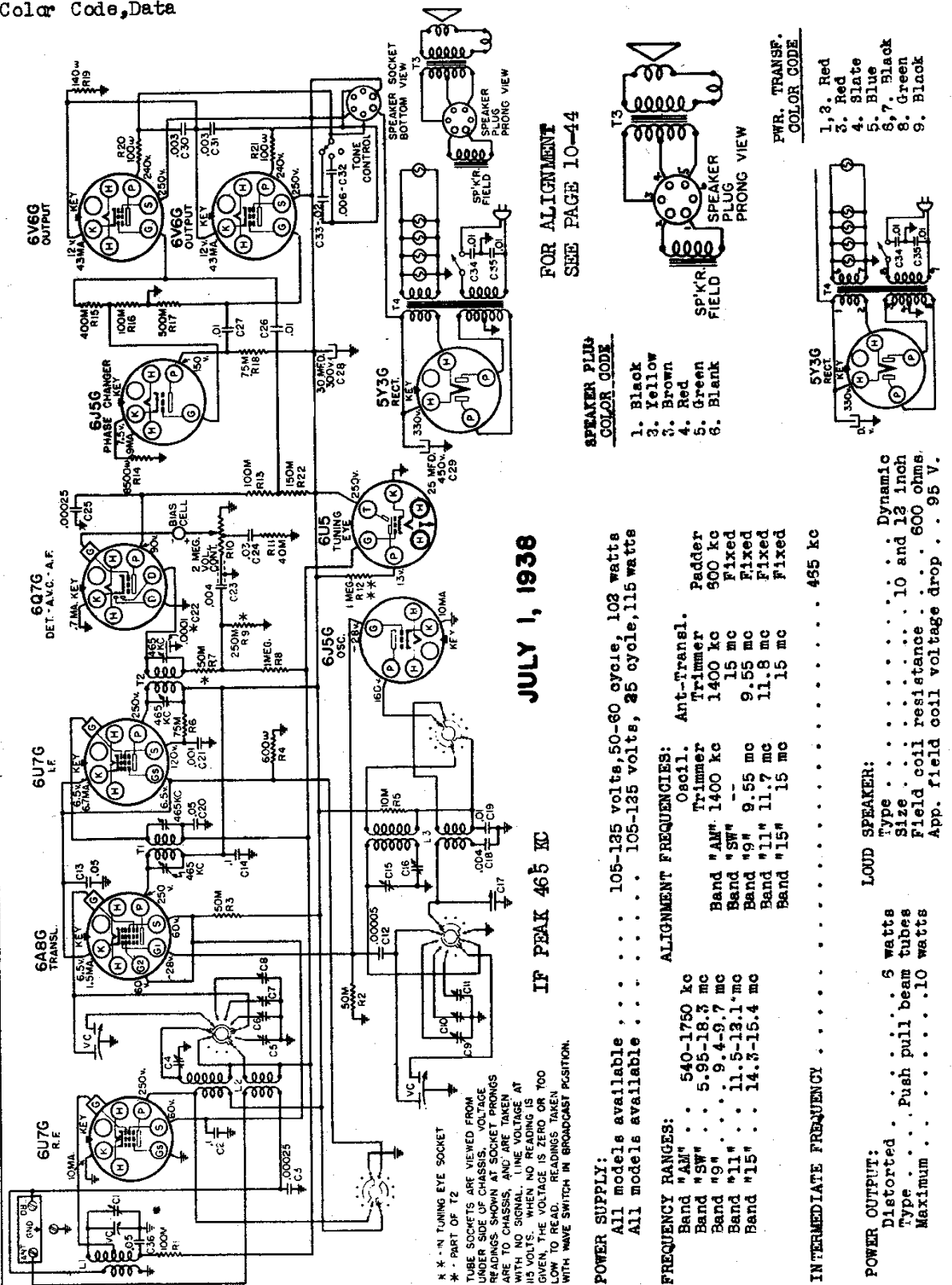
Resources

Riders Volume 10 - SEARS 10-56

Riders Volume 10 - SEARS 10-57

Riders Volume 10 - SEARS 10-58

MODELS 6036, 6136
Chassis 101.511
Schematic, Voltage
Color Code, Data



JULY 1, 1938

IF PEAK 465 KC

POWER SUPPLY:
 All models available 105-125 volts, 50-60 cycle, 102 watts
 All models available 105-125 volts, 35 cycle, 115 watts

FREQUENCY RANGES:		ALIGNMENT FREQUENCIES:	
Band "AM"	540-1750 kc	Ant.-Trans.	Oscil.
Band "SW"	5.99-18.7 mc	Trimmer	Trimmer
Band "9"	9.4-9.7 mc	Band "AM"	1400 kc
Band "11"	11.5-13.1 mc	Band "SW"	15 mc
Band "15"	14.7-15.4 mc	Band "9"	9.55 mc
		Band "11"	11.7 mc
		Band "15"	15 mc

INTERMEDIATE FREQUENCY	LOUD SPEAKER:	POWER OUTPUT:
. 485 kc	Type Dynamic	Distorted 5 watts
	Size 10 and 12 inch	Type Push pull beam tubes
	Field coil resistance 600 ohms	Maximum 10 watts
	App. field coil voltage drop 95 V.	

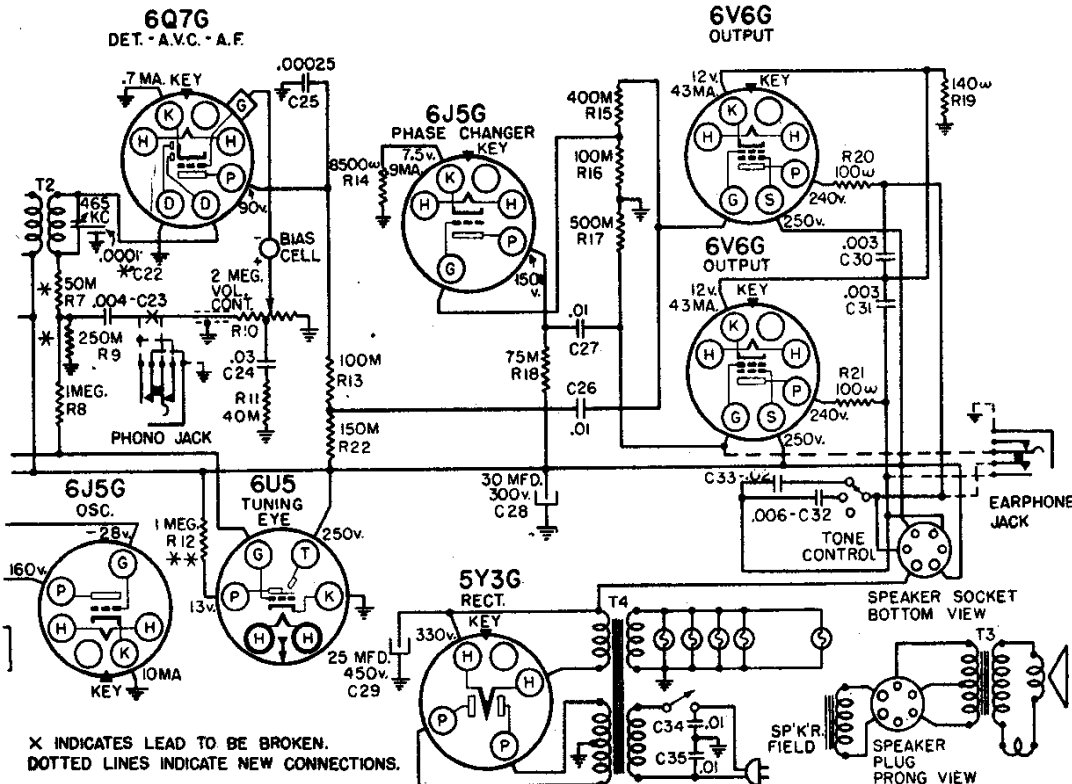
SEARS-ROEBUCK & CO.

MODELS 6036, 6136
Chassis 101.511
Phone, Phono. Jacks
Drive Data, Notes

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.

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.



X INDICATES LEAD TO BE BROKEN.
DOTTED LINES INDICATE NEW CONNECTIONS.

CHASSIS FEATURES:

- Number RF stages . . . One (on Band "AM")
- Number IF stages One
- Tuning Eye
- Number condensers in gang . . . Three
- Antenna Doublet

CONTROL OPERATION:

- Turning right: Volume increase
- Turning right: . . "ON", "HI", "MED", "LO"
- Turning right: "AM", "SW", "9", "11", "15"
- Tuning ratio: 13:1

OPERATING FEATURES:

- Tone Control Three position
- Automatic Volume Control
- Three Spread Bands
- Push Button Tuning (8 button)
- Band Indicator

OPERATING CONTROLS:

1. Upper left knob Volume
2. Lower left knob . . "On-Off" Switch and Tone
3. Lower right knob . . Wave Band Switch
4. Upper right knob . . Station Selector

THE AVC CIRCUIT:

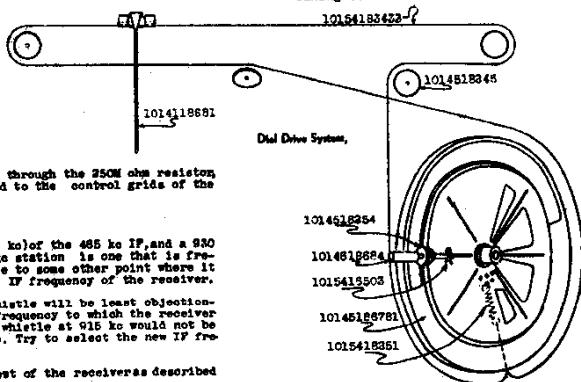
The diode current of one of the 6Q7G diode plates, flowing through the 250M ohm resistor RP, creates voltage drop across it. This voltage is applied to the control grids of the RF, translator, and IF tubes, to provide AVC.

ELIMINATING WHISTLE AT 930 KC:

A whistle, due to a beat between the second harmonic (930 kc of the 465 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 980 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 935 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 near as possible to 465 kc.

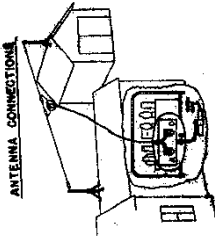
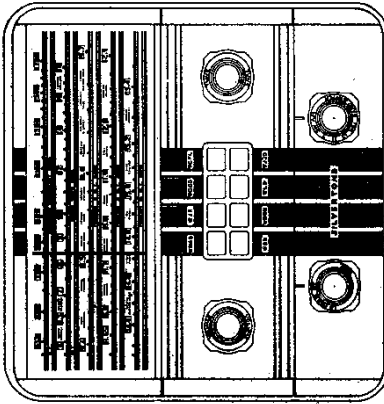
Align the IF at the new frequency and then realign the rest of the receiver as described under, "ALIGNMENT PROCEDURE".



MODELS 6036, 6136
Chassis 101.511
Socket, Trimmers
Chassis, Tuner Data

SEARS-ROEBUCK & CO.

CHASSIS 101.509, 101.510,
101.512, 101.513,
101.515, 101.517,
101.524, 101.534
Tuner Data



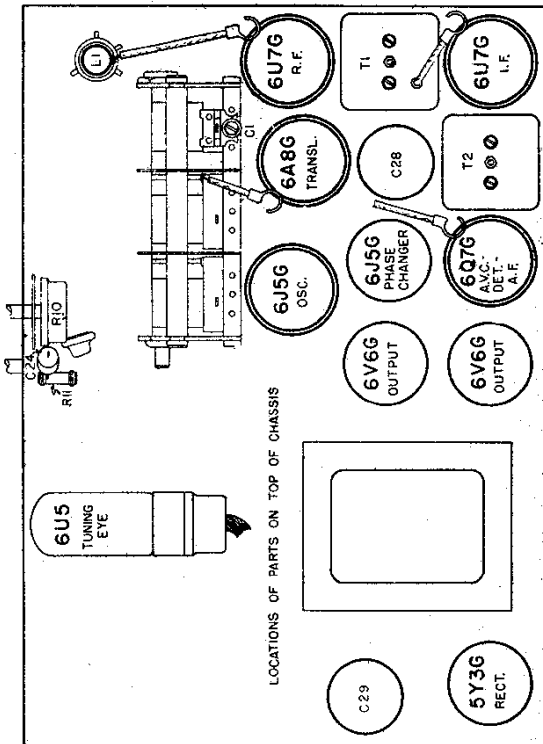
TUNER DATA FOR CHASSIS 1-
101.509, 101.510, 101.512,
101.513, 101.515, 101.517,
101.524, AND 101.534.

PUSH BUTTON TUNING

SET THIS UP:

Leave the radio turned on for about 15 minutes before adjusting the push buttons. This "warming up" period will insure permanent and accurate settings.

1. Make a list of the stations that you want to set up for push button tuning. It is advisable, but not necessary, to arrange the stations in the order of their frequency (lowest to highest), that is, the station of lowest frequency will be #1, the station of next highest frequency will be #2, and so on. If you wish, short wave stations that can be tuned in on the high, middle, or low bands can be set up for push button tuning. The stations selected must give strong and reliable reception. The Band Switch knob must be turned to the proper position for the stations selected.
 2. Pull the volume control and tuning knobs off of their shafts. Remove the snap-in buttons that were covered by the knobs. The escutcheon (the plate through which the push buttons protrude) can then be removed. Be careful not to lose the snap-in buttons.
 3. Replace the tuning knob on its shaft. Push the knob in and turn it so that the dial points toward the "TUNE" end of the dial. A key will be found in the Instruction Leaflet envelope. Engage this key with the slotted shaft that is between the tuning knob and the push buttons. Unlock the mechanism by pushing the shaft in and unscrewing it (turn counter-clockwise as far as it will go. Do not force it. About 8 turns is sufficient to loosen it completely. A screw driver can be used for unlocking the mechanism instead of the key supplied). Then remove the key.
 4. Push the button that you wish to use for your #1 station, all the way in and hold it in firmly. Push the tuning knob in and turn it until your #1 station is tuned in exactly as indicated by the tuning eye. Be as exact as possible in tuning your station. Then let go of the push button, making sure not to turn the tuning knob until you have let go of the button. (Turning the knob while the button is pushed in would spoil the accuracy of the adjustment.)
 5. Push in your #2 button. Hold it in firmly and tune in your #2 station accurately. Then let go of the push button and then the tuning knob. Proceed in the same manner for the other stations on your list.
 6. When all of the stations have been set up, push the tuning knob in and turn it so that the dial pointer comes to the "TUNE" end of the dial. Then push the push button, making sure it is tightened (turning clockwise) the slotted shaft, using the key supplied or a screw driver.
 7. Punch out the call letters of your desired stations from the call letter sheets supplied. Insert the call letters in the celluloid holders at the back of the escutcheon. Be sure to insert the call letters so that they are opposite their respective push buttons. Then replace the escutcheon.
 8. You may change your choice of stations at any time by unlocking the mechanism as described in Step 3 and adjusting the button to the new station, as described in Step 4. Then replace the mechanism as described in Step 5. The call letters of the new station should be punched in the call letter holder in their proper position.
- Push the button, indicated for your desired station, all the way in. Your station then will be tuned in. If you have selected short wave stations for push button tuning, be sure the Band Switch is turned to the proper band. The button will remain part, way in, indicating that station is tuned in, until you push another button or the tuning knob.



MODEL 6036, 6136 CHASSIS 101.511

