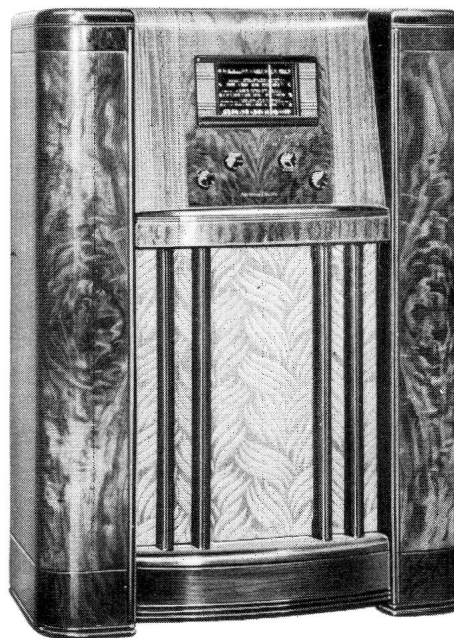
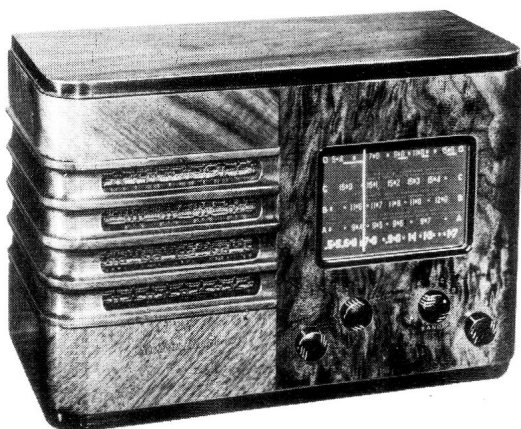


Models 1568 & 1569 Type

AC Universal Superheterodyne Radio Receivers



Specifications

Frequency Range:

- "BC" Broadcast Band .55 to 1.70 mc.
- "A" Shortwave 31 metre band 9.35 to 9.75 mc.
- "B" Shortwave 25 metre band 11.55 to 12.0 mc.
- "C" Shortwave 19 metre band 15.0 to 15.45 mc.
- "D" Shortwave Full Short-Wave Band 5.5 to 15.2 mc.

I.F.:

463 Kilocycles.

Tubes:

Type	Position
12SA7	Converter
12SK7	I.F. Amplifier
12SQ7	2nd Det. AVC & 1st Audio
35L6GT	Power Output
35Z5GT	Rectifier

Power Supply:

110-125 volts, 25-60 cycles A-C Universal.

Power Output:

1.5 watts

A.V.C.:

Applied to 12SA7 Converter and 12SK7 I-F Amplifier.

Audio System:

Audio portion of 12SQ7 resistance-capacitance coupled to 35L6GT power output.

Antenna:

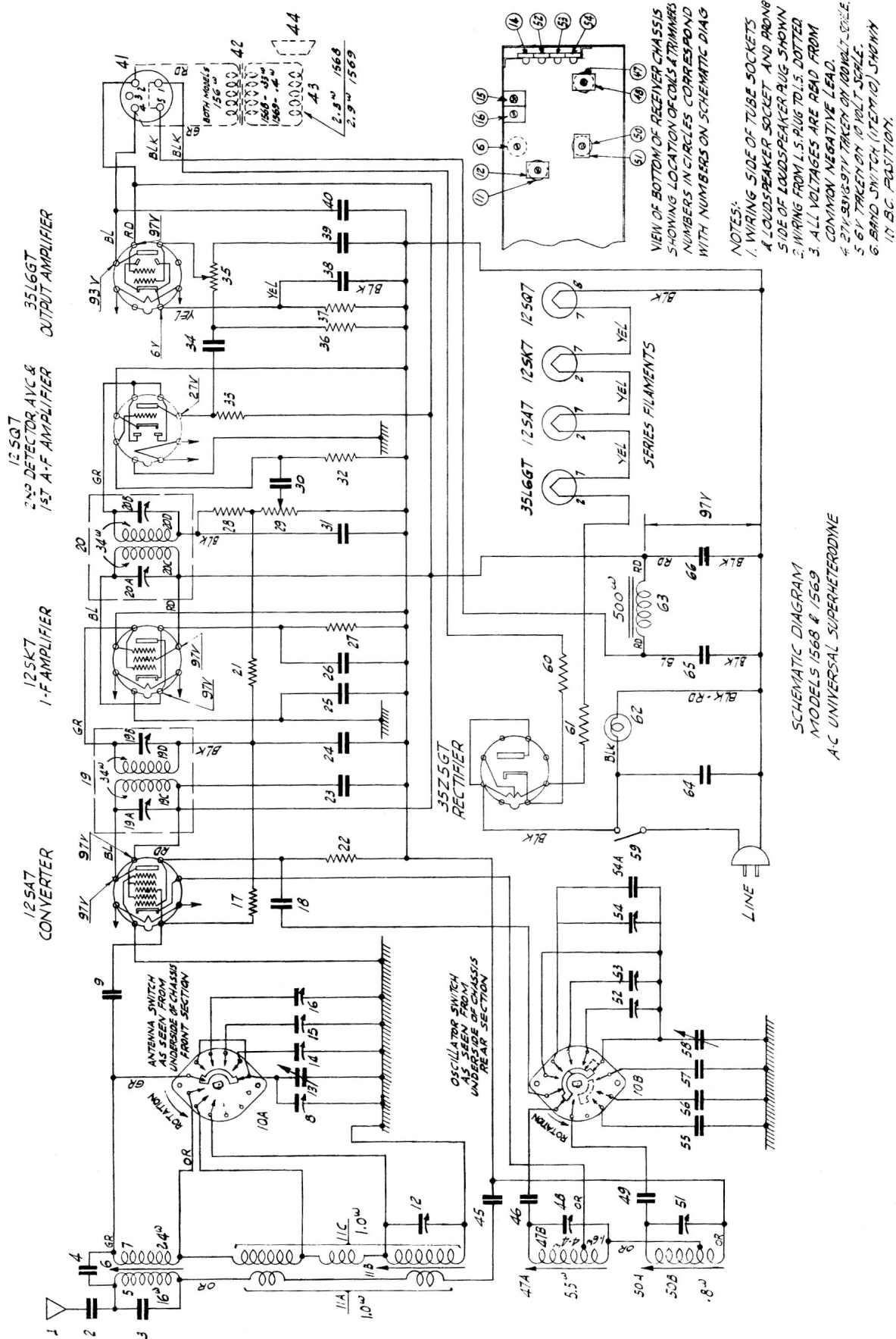
25 feet insulated wire permanently connected.

Controls:

Four (left to right):
1st—Volume & On-Off
2nd—Tone Control
3rd—Band Switch
4th—Tuning Control

Loudspeaker:

1568—5 $\frac{1}{4}$ " P.M.
1569—8" P.M.



REPLACEMENT PARTS LIST

Item	Description	Part No.	Item	Description	Part No.
1	Antenna Wire (25 ft. flex. brown wire)	K-5074	42	{ Output Transformer (1568).....	K-3873-8
2	Capacitor, .007 mf. 400 volt.	K-2228-13		{ Output Transformer (1569).....	K-3873-9
3	Capacitor, mica, 100 mmf.....	K-1611-2	43	{ Voice Coil (not replaceable)	
4	Capacitor, mica: 5 mmf. (Part of (K-3831-7)	K-4235-1		{ (1568) Part of.....	K-6049 or K-6210
5	B.C. Ant. Trans. Primary } Com.			{ Voice Coil (not replaceable)	
6	B.C. Ant. Trans. Iron Core } Assem.	K-3831-7	44	{ Loudspeaker Assy. (1568) ..	K-6049 or K-6210
7	B.C. Ant. Trans. Secondary }			{ Loudspeaker Assy. (1569) ..	K-6140 or K-6211
8	Trimmer (on gang) Part Of.....	K-6040	45	Capacitor, .007 mf. 400 volt.	K-2228-13
9	Capacitor mica: 1000 mmf.....	K-1611-23	46	Capacitor, mica: 550 mmf.....	K-1611-43T
10A	Antenna Switch } Complete	K-5998-1	47A	{ B.C. Osc. Coil Iron Core) } Com.	K-6042
10B	Oscillator Switch } Assembly		47B	{ B.C. Osc. Coil } Assy.	
11A	S.W. Ant. Trans. Primary } Com.		48	Trimmer, 3-25 mmf. (B.C. Osc.)...	K-1458-6
11B	S.W. Ant. Trans. Iron Core } Assem.	K-5999	49	Capacitor mica: 4500 mmf.....	K-1952-36T
11C	S.W. Ant. Trans. Secondary }		50A	S.W. Osc. Coil Iron Core } Com.	K-6041
12	Trimmer 1.5-10 mmf. (S.W. Ant.)..	K-1458-5	50B	S.W. Osc. Coil) } Assy.	
13	Ant. Sect. Tuning Gang, Part Of..	K-6040	51	Trimmer, 10-55 mmf. (S.W. Osc.)..	K-1458-3
14	Trimmer 3-25 mmf. (31 M. Ant.)		52	Trimmer, 32-205 mmf. (31M. Osc.)	
	(Part of K-6043 Assembly)	K-1458-6		(Part of K-6043)	K-1458-9
15	Trimmer 10-55 mmf. (25 M. Ant.)..	K-1458-3	53	Trimmer, 32-205 mmf. (25M. Osc.)	
16	Trimmer 10-55 mmf. (19 M. Ant.)..	K-1458-3		(Part of K-6043)	K-1458-9
17	Resistor: 1 mg. 1/2 watt.	K-5974-25C	54	Trimmer, 10-55 mmf. (19M. Osc.)	
18	Capacitor, mica: 50 mmf.....	K-1611-1		(Part of K-6043)	K-1458-3
19	1st I.F. Trans. Assy. Complete....	K-5510	54A	Capacitor mica: 30 mmf.....	K-1611-57T
19A	{ 1st I.F. Trimmers Only.....	K-5688	55	Capacitor mica: 475 mmf.....	K-1611-55T
19B	}		56	Capacitor mica: 325 mmf.....	K-1611-56T
19C	{ 1st I.F. Coils Only.....	K-5511	57	Capacitor mica: 150 mmf.....	K-1611-53T
19D	}		58	Osc. Sect. Tuning Gang, Part Of..	K-6040
20	2nd I.F. Trans. Assy. Complete....	K-5512-2	59	On-Off Switch, Part of... K-4991-4	or K-4991-5
20A	{ 2nd I.F. Trimmers Only.....	K-5688	60	Resistor, 33 ohms, 1/2 watt.....	K-5975-32C
20B	}		61	Resistor, 82 ohms, 2 watt.....	K-5985 22 B
20C	{ 2nd I.F. Coils Only.....	K-5513	62	Dial Lamp (110 volts).....	K-6016-1
30D	}		63	Choke Coil.....	K-6038-1
21	Resistor 2.2 meg. 1/2 watt.....	K-5974-17C	64	Capacitor: .03 mf. 400 V.....	K-2228-18
22	Resistor, 22,000 ohms, 1/2 watt....	K-5974-65C	65	Cap. 40 mf. 150 V. Part of.....	K-5438-2
23	Capacitor, .1 mf. 200 volt.	K-2227-9	66	Cap. 40 mf. 150 V. part of.....	K-5438-2
24	Capacitor, .05 mf. 200 volt.	K-2227-8	MISCELLANEOUS		
25	Capacitor, .2 mf. 200 volt.	K-2227-22		Tube Sockets.....	K-5720-2
26	Capacitor, .05 mf. 200 volt.	K-2227-8		Dial Scale.....	K-6017
27	Resistor, 270 ohms 1/2 watt.....	K-5975-10 B		Dial Indicator.....	K-6060
28	Resistor 47,000 ohms, 1/2 watt....	K-5974-57C		Dial Spring.....	K-3923
29	Volume Control (with { K-4991-4 Mod. 1568			Dial Cord (4 feet) order by feet.....	K-4636
	Sw.) .5 meg. { K-4991-5 Mod. 1569			Dial Pulley.....	K-6053
30	Capacitor, .01 mf. 200 volt.....	K-2227-6		Dial Escutcheon (Model 1569 Only)....	K-6138
31	Capacitor, mica, 400 mmf.....	K-1611-24		Dial Cover (celluloid).....	K-6074-2
32	Resistor, 10 meg. 1/2 watt.....	K-5974-1C		Dial Lamp Socket.....	K-6018
33	Resistor, .22 meg. 1/2 watt.....	K-5974-41C		Rubber Grommet (gang mtg.).....	K-2498-2
34	Capacitor, .01 mf. 400 volt.....	K-2228-6		Rubber Grommet (dial drive).....	K-4534-3
35	Tone Control, 1/4 meg.. { K-5813-4 Mod. 1568			Dial Drive Shaft..... { K-6062 3 Mod. 1568	
	{ K-5813-6 Mod. 1569			{ K-6062-2 Mod. 1569	
36	Resistor, .33 meg. 1/2 watt.....	K-5974-37C		"C" Washer.....	K-2895
37	Resistor, 220 ohms, 1/2 watt.....	K-5975-12 B		Stand-Off, 1 terminal.....	K-2594-1
38	Capacitor: 20 mf. 25 volt, Part Of...	K-5438-2		Stand-Off, 3 terminals.....	K-2348
39	Capacitor, .002 mf. 400 volt.....	K-2228-2		Knob, (Tune, Vol. & Tone) (1568).....	K-5176-1
40	{ Capacitor, .005 mf. 400 V. (1568)..	K-2228-5		Knob (band) (1568).....	K-5955-2
	{ Capacitor, .002 mf. 400 V. (1569)..	K-2228-2		Knob (Tune, Vol. & Tone) (1569).....	K-6114-1
41	{ Speaker Socket.....	K-6048-2		Knob (band) (1569).....	K-6114-3
	{ Speaker Plug.....	K-6046-2			

REALIGNING DETAILS

I.F. ALIGNMENT:

Set the generator to 463 K.C. Connect the high generator lead to the 12SA7 grid through a 0.1 mfd. capacitor. Connect generator ground lead to common negative lead of receiver. Adjust items 19A, 19B, 20A and 20B in I.F. cans, for maximum output. **Note:** Gang condenser should be wide open during I-F alignment.

R.F. ALIGNMENT:

Note: See diagram on schematic for coil and trimmer location.

B.C. BAND:

Connect the high signal generator lead through a 100 mmf. capacitor to antenna lead. Set the generator and dial pointer to 1600 K.C. Adjust the oscillator trimmer, item 48, for maximum output. Adjust antenna trimmer, item 8, for maximum output, while rocking the gang. Set the signal generator and dial pointer to 600 K.C. Adjust the oscillator iron core, item 47A, and antenna iron core, item 6, for maximum output. Recheck at 1600 K.C.

SHORTWAVE:

It is important to align the shortwave bands in the order shown below. If this order is changed, some of the shortwave bands will be completely out of alignment. If it is necessary to realign one of the bands, all of the bands of a higher frequency than the first one realigned, must also be realigned. Connect the high signal generator lead through a 400-ohm resistor to high side of shortwave antenna primary (before spool of antenna wire) on all shortwave bands, i.e. A, B, C & D.

"D" FULL SHORTWAVE BAND:

Set the signal generator and dial pointer to 15.0 m.c. Adjust oscillator trimmer, item 51, for maximum output. Adjust antenna trimmer, item 12, for maximum output, rocking the gang while doing so. Set the signal generator and dial pointer to 6.0 mc. Adjust oscillator iron core, item 50A, and antenna iron core, item 11B, for maximum output.

"C" 19-METRE BAND:

Set the signal generator and dial pointer to 15.15 mc. and adjust oscillator trimmer, item 54, for maximum output. Adjust antenna trimmer,

item 16, for maximum output, rocking the gang while doing so.

"B" 25-METRE BAND:

Set the signal generator and dial pointer to 11.7 mc. and adjust osc. trimmer, item 53, for maximum output. Adjust antenna trimmer, item 15, for maximum output, rocking the gang while doing so.

"A" 31-METRE BAND:

Set the signal generator and dial pointer to 9.5 mc. and adjust oscillator trimmer, item 52, for maximum output. Adjust antenna trimmer, item 14, for maximum output, rocking the gang while doing so.

IMPORTANT NOTE:

Check carefully for the correct peak. To do this adjust to aligned frequency for each band as described above, then turn generator to the approximate frequency as shown in table below and increase input. At this point a signal will be heard if the oscillator setting is correct. If no signal is heard, return to aligned frequency and turn the iron core adjusting screw counter-clockwise until a second peak is reached. Recheck for image at proper frequency per table below.

Band	Image Frequency
"D" Full Short Wave	15.92 M.C.
"C" 19 Metre	16.07 M.C.
"B" 25 Metre	12.62 M.C.
"A" 31 Metre	10.42 M.C.

