

Galvin Mfg. Co.

	Model: 5J1U	Chassis:	Year: Pre 1952
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		

Resources

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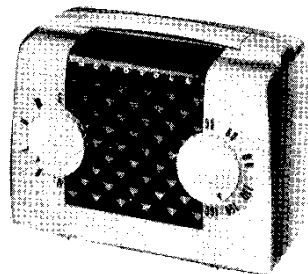
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MODELS 5J1, 5L1,
Ch. HS-250; 5J1U,
5L1U, Ch.
HS-224



5L1 SERIES



5J1 SERIES

GENERAL INFORMATION

TYPE - A three-power (AC/DC, Battery) portable receiver. Four miniature type tubes and a selenium rectifier are used in a superheterodyne circuit.

TUBE COMPLEMENT - 1R5 - Converter
1U4 - IF Amplifier
1U5 - Det, AVC & 1st AF Amp
3S4 - Power Amplifier
Rectifier - Selenium type (for AC/DC operation)

MODEL	COLOR	CHASSIS
5L1	Tan	HS-250
5L1U	Tan	HS-224
5J1	Black	HS-250
5J1U	Black	HS-224

POWER SUPPLY - Operates from 117V AC/DC (15 watts) or from the following batteries:

- 2 - 1½V flashlight cells (Eveready #950 or equivalent)
- 1 - 67½V "B" battery (Eveready #467 or equivalent)

TUNING RANGE - 535 to 1620 Kc IF - 455 Kc

OPERATING INSTRUCTIONS

TO OPEN FRONT COVER (5J1 & 5J1U ONLY). The front covers of the models 5J1 and 5J1U contain the loop antenna. They may be opened simply by lifting them upward with the fingers. A special hinge holds the covers in either the closed, half-opened, or fully open position.

Does not operate from DC power, reverse the plug in the power outlet. When operating from AC power, reception may sometimes be improved by reversing the power plug in the outlet. It is not necessary that batteries be installed if the receiver is to be operated only from house power lines.

VOLUME CONTROL & OFF-ON SWITCH. The "off-on" switch and volume control are combined and are operated with the left-hand knob.

BATTERY OPERATION. Open the back cover and install the batteries, following the instructions on the label inside the back cover (or see Figure 1). Insert the line cord plug into the receptacle on the chassis, or the receiver will not play from batteries. If the receiver is to be operated for a long period of time from 117 volts AC or DC, or is to be placed in storage, remove the batteries and store in a cool place. **IMPORTANT:** Never leave low or run-down batteries in the receiver, as they will leak or swell and damage it.

TUNING CONTROL. Stations are tuned in with the right-hand knob.

TO TURN OFF. Turn the receiver "off" by rotating the volume knob to the left until a click is heard.

TO OPEN BACK COVER. The back cover may be opened by inserting the fingertips into the slots in the cover and pulling it open. When closing the cover be careful not to pinch the power line cord or other leads between the cover and the cabinet.

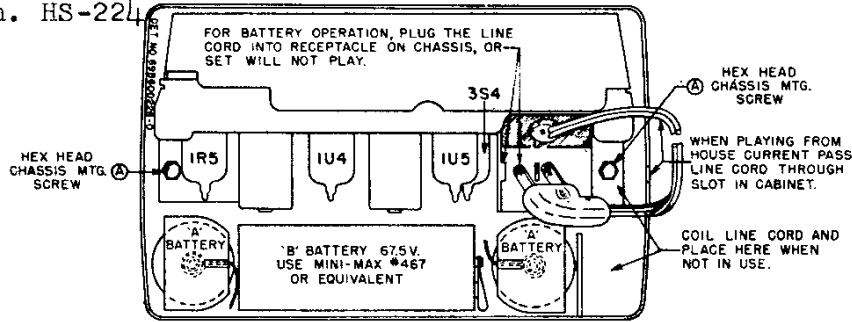
ANTENNA. A loop antenna is built into the front cover of models 5J1 and 5J1U and into the rear cover of models 5L1 and 5L1U. Because of the slightly directional characteristics of the loop antenna, reception from some stations may be improved by rotating the entire receiver. In extremely noisy locations, rotate the receiver until minimum noise and maximum signal pickup are obtained.

117 VOLT AC OR DC OPERATION. The power cord is located inside the cabinet and may be reached by opening the back cover. Pass the line cord through the slot on the side of the receiver, and plug it into any 117 volt AC or DC power outlet. If the receiver

BATTERY REPLACEMENT. If low volume or fuzzy tone is noticed when operating from batteries, replace the flashlight cells. Normally, the 67½V "B" battery will last for 3 or 4 changes of the flashlight cells. The condition of the batteries will not affect the

operation of the receiver from 117 volts AC or DC. Complete battery replacement instructions will be found inside the cabinet back cover (or see Figure 1).

MODELS 5J1, 5L1,
Ch. HS-250: 5J1U.
5L1U, Ch. HS-224



NOTE - 'A' BATTERIES: USE TWO 1-1/2V FLASHLIGHT CELLS - EVEREADY #950 OR EQUIVALENT. INSTALL 'A' BATTERIES SO SPRING CONTACTS BOTTOM OF BATTERIES.

FIGURE 1. BATTERY INSTALLATION & CHASSIS REMOVAL INSTRUCTIONS

ALIGNMENT

NOTE: The receiver may be operated either from a battery or from the commercial power lines during alignment. If AC power is used, it is recommended that an isolation transformer be placed between the power line and the receiver. If an isolation transformer is not available, connect the low side of the signal generator to B- through a .1 mf capacitor.

1. Connect a low range output meter across the speaker voice coil.
2. Connect the low side of the signal generator to B-.
3. Set the signal generator for 400 cycle, 30%

modulation.

4. Turn the receiver volume control to maximum.
5. Use a small fibre screwdriver for aligning the IF and diode transformers.
6. As stages are brought into alignment, reduce the signal generator input to keep the output of the receiver at approximately .05 watt (.05 watt = .40 volts on the output meter) to avoid overloading the receiver.
7. See Figure 2. for adjustment locations and the following chart for procedure.

ALIGNMENT CHART

STEP	DUMMY ANTENNA	GENERATOR CONNECTION	GENERATOR FREQUENCY	GANG SETTING	ADJUST	REMARKS
IF ALIGNMENT						
1.	.1 mf	Grid of conv. (pin 6, IR5)*	455 Kc	Fully open	1, 2 & 3	Adjust for maximum.
RF ALIGNMENT						
2.	-	Grid of conv. (pin 6, IR5)*	1620 Kc	Fully open	4	Adjust for maximum.
3.	-	-	-	-	-	Install chassis in cabinet, leaving output meter connected to speaker. NOTE: Batteries should be in cabinet.
4.	-	Radiation loop**	1400 Kc	Tune for maximum	5	Adjust for maximum. Trimmer is reached through hole under plug button on side of cabinet.

*On chassis HS-250 return the grid of the converter tube to AVC either through the loop or through a 4.7 meg resistor (as in chassis HS-224).

**Connect generator output across 5" diameter, 5 turn loop and couple inductively to receiver loop. Keep loops at least 12" apart.

MODELS 5J1, 5L1,
Ch. HS-250; 5J1U,
5L1U, Ch. HS-224

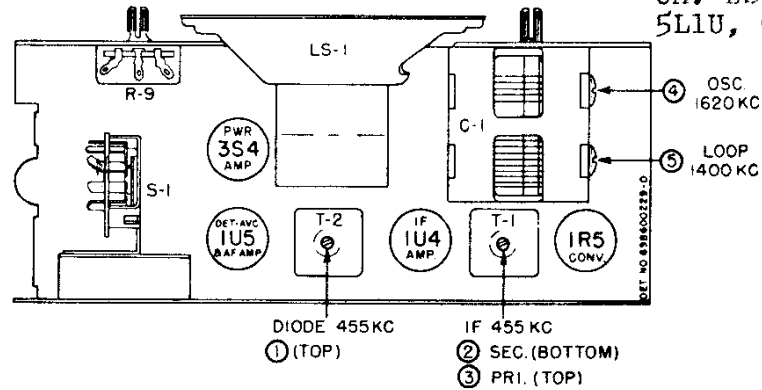


FIGURE 2. TUBE & TRIMMER LOCATIONS

SERVICE NOTES

The chassis of this receiver is isolated from the AC power line circuit by a capacitor-choke assembly to eliminate the shock hazard when handling the receiver. However, as an additional precaution when aligning or servicing the receiver from AC, an isolation transformer should be inserted between the power line and the chassis.

The tubes are exposed when the rear cover is opened. It is not necessary to remove the chassis to replace tubes.

To remove the chassis from the cabinet:

1. Pull off the two control knobs on the front of the cabinet.
2. Open the rear cover and remove the batteries.
3. Disconnect the two loop antenna leads from the chassis.
4. Remove the two hex head screws holding the chassis to the cabinet ("A" - "A" in Figure 1).
5. Slide the chassis out of the cabinet.

REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
CHASSIS PARTS - ELECTRICAL		
CAPACITORS		
C-1	19K692008	Variable, 2-gang
C-2	21K481377	Ceramic: 500 mmf 500V
C-3	21K482726	Ceramic, disc type: 10,000 mmf 450V
C-4	21K482726	Ceramic, disc type: 10,000 mmf 450V
C-5	21K77373	Ceramic: 47 mmf 500V
C-6	8K71213	Paper: .05 mf 100V
C-7	8K71213	Paper: .05 mf 100V
C-8	8K471635	Paper: .05 mf 400V
C-9	23B691995	Electrolytic: 40-40 mf 150V/250 mf 10V
C-10A, B, C, D	21K691992	Ceramic, multiple: 2000 mmf, 100 mmf, 100 mmf, 5000 mmf
C-11	21K482726	Ceramic, disc type: 10,000 mmf 450V
C-12	21A470789	Ceramic, disc type: 5000 mmf 450V
CHOKE & CAPACITOR		
E-2	24K691986	Choke & .05 mf 200V paper capacitor
RECTIFIER		
E-1	48B791092	Selenium rectifier: half-wave...
COILS		
L-1	1X692056	Antenna Loop & Leads Assembly (5L1 & 5L1U)
	1X692139	Antenna Loop & Front Cover Assembly: complete; black plastic (5J1 & 5J1U)
	1X692141	Antenna Loop, Panel & Hinge Assembly: less front cover; black plastic (5J1 & 5J1U)
	24B691936	Antenna Loop & Panel Assembly: less hinges; black plastic (5J1 & 5J1U)
L-2	24B691987	Oscillator coil (red code) (HS-224 only)
	24K600154	Oscillator coil (white code) (HS-250 only)

REF. NO.	PART NO.	DESCRIPTION
SPEAKER		
LS-1	50B692037	Speaker: 3 1/2" PM; 3.2 ohm VC.
	or 50B692038	Speaker: 3 1/2" PM; 3.2 ohm VC.
RESISTORS		
Note: All resistors are insulated, carbon type unless otherwise specified.		
R-1	6R2122	4.7 meg 20% 1/2W
R-2	6R6031	100,000 10% 1/2W
R-3	6R6397	22,000 10% 1/2W
R-4	6R2109	10 meg 20% 1/2W
R-5	6R5683	27 10% 1/2W
R-6	6R2118	3.3 meg 20% 1/2W
R-7	17K692009	Wire wound: 2150 5% 10W; tapped
R-8	6R5581	3300 10% 1/2W
R-9	18A692018	Volume control: 1 meg; with on-off switch
R-10	6R5554	390 10% 1/2W
R-11	6R2109	10 meg 20% 1/2W
R-12	6R6004	1 meg 20% 1/2W
R-13	6R2122	4.7 meg 20% 1/2W
R-14	6R2118	3.3 meg 20% 1/2W
R-15	6R6432	270 10% 1/2W
R-16	6R6040	680 10% 1/2W
R-17	6R6269	820 10% 1/2W
R-18	6R6015	220,000 20% 1/2W
SWITCHES		
S-1	40B471927	Rotary switch, 5PDT (AC/DC, battery selector) (HS-224 only)
	40K600156	Rotary switch, 4PDT (AC/DC, battery selector) (HS-250 only).
S-2		On-off switch (on volume control)
TRANSFORMERS		
T-1	24B692014	IF Transformer, 455 Kc: complete with capacitors, less shield...
T-2	24B692015	Diode Transformer, 455 Kc: complete with capacitors, less shield
T-3	25K692006	Output Transformer

MODELS 5J1, 5L1,
Ch. HS-250; 5J1U,
5L1U, Ch. HS-224

PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
CHASSIS PARTS - MECHANICAL			
43A692012	Bushing, strain relief; line cord (use with 43R692013)	3S490390	Screw, thread-cutting; #4 x 3/8; type 25 Phillips round head; cad pl (apkr grille mtg)
42K75826	Clip, electrolytic mtg	3S488009	Screw, thread cutting; #6 x 3/8; type 25 plain hex head; cad pl (mounts chassis to cabinet)
42A485548	Clip, IF coil mtg	2S7089	Speednut; for .187 stud; black parkerized finish (loop mtg)
30B691994	Cord, line; with plug; 6 ft long (HS-224 only)	41A480094	Spring, hinge (rear cover)
30K600125	Cord, line; with plug; 6 ft long (HS-250 only)	55B692068	Spring, rear cover latch
4S7650	Lockwasher, internal; #6; cad pl	4K19943	Washer, paper; 11/16 x 1/32 (loop mtg)
29R5294	Lug, soldering (holds battery leads)	CABINET PARTS (5J1 & 5J1U)	
29R5239	Lug, soldering; #8 hole (holds line cord)(HS-224 only)	7A600078	Bracket, chassis support; cad pl (on sides of chassis)
29R3020	Lug, soldering; battery contact (in 'A' battery retainer)		
2S7005	Nut, hex; 6-32 x 1/4 std; cad pl		

MODELS 5J1,
5L1, Ch. HS-250

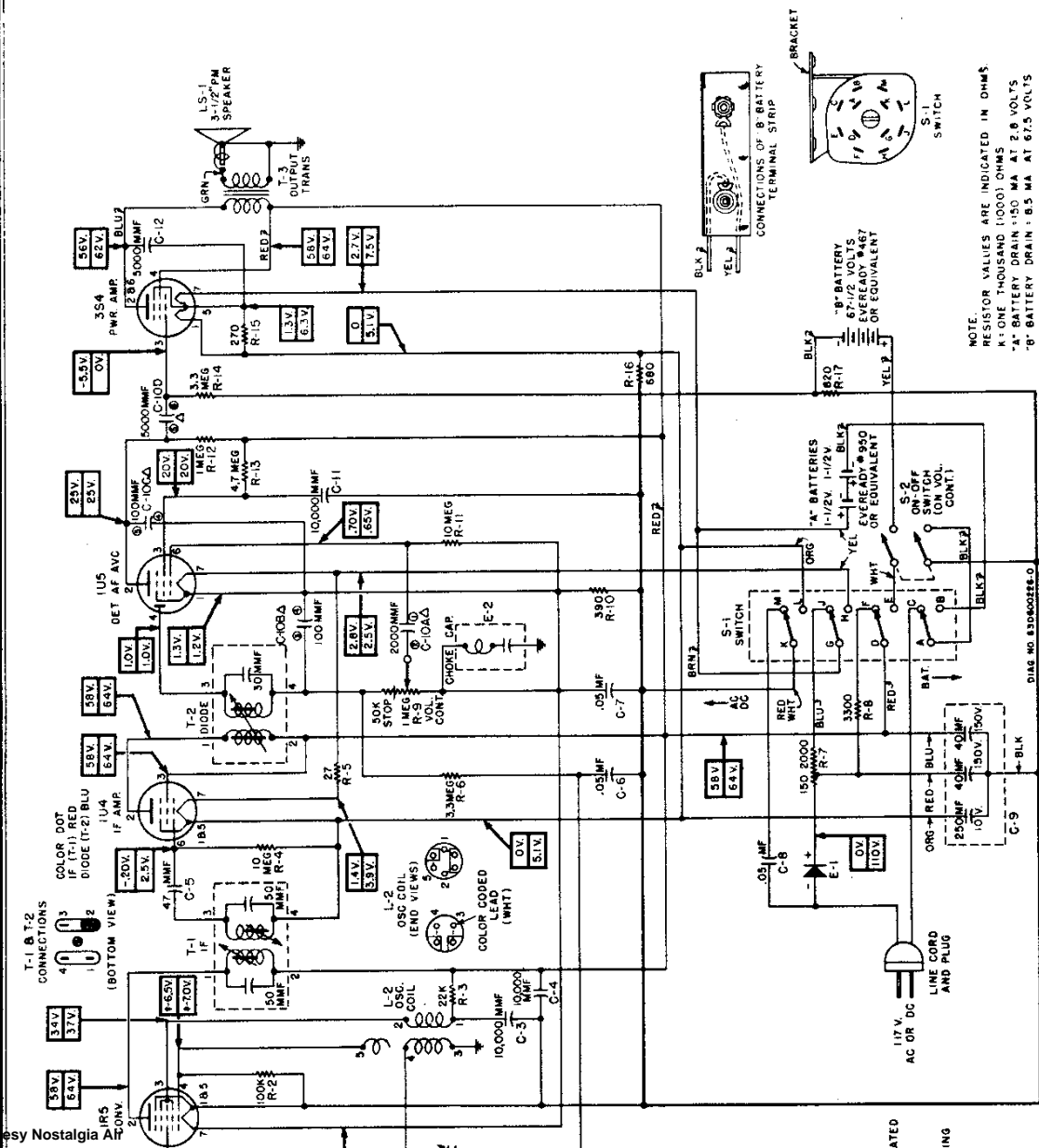
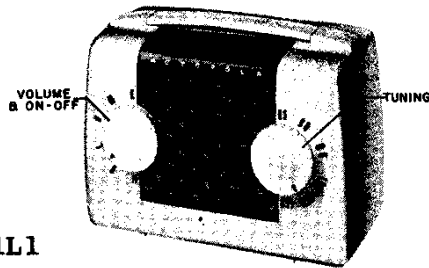
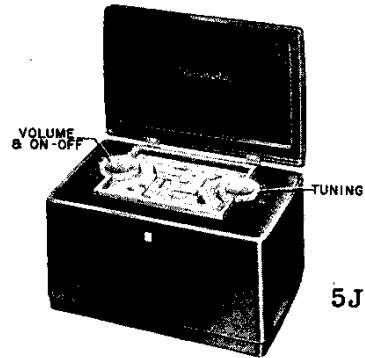


FIGURE 4. SCHEMATIC DIAGRAM, CHASSIS HS-250

MODELS 5L1, 5L1U, Rev.;
5L2, 5L2U, 5L1U, 5L2U;
5J1, 5J1U, Rev.; 5J2,
5J2U; Ch. HS-224, HS-250



5L1 & 5L1U
SERIES



5J1 SERIES

GENERAL INFORMATION

TYPE - Three-power (AC/DC, Battery) portable receiver. Four miniature type tubes and a selenium rectifier are used in a superheterodyne circuit.

TUBE COMPLEMENT -	Type	Function
	1R5	Converter
	1U4	IF Amplifier
	1U5	Det. AVC & 1st AF Amp
	3S4	Power Amplifier
	Rect	Selenium type (for AC/DC Operation)

MODEL	COLOR	CHASSIS
5L1	Tan	HS-250
5L1U	Tan	HS-224
5L2	Maroon	HS-250
5L2U	Maroon	HS-224
5L1U	Green	HS-224
5L2U	Maroon	HS-224
5J1	Black	HS-250
5J1U	Black	HS-224
5J2	Green	HS-250
5J2U	Green	HS-224

POWER SUPPLY - Operates from 117V AC/DC (15 watts) or from the following batteries:

- 2 - 1-1/2V flashlight cells (Eveready #950 or equivalent)
- 1 - 67-1/2V "B" battery (Eveready #467 or equivalent)

TUNING RANGE - 535 to 1620 Kc **IF** - 455 Kc

OPERATING INSTRUCTIONS

TO OPEN FRONT COVER (5J1 & 5J2 Series). The front covers of the models 5J1 and 5J2 Series contain the loop antenna. They may be opened simply by lifting them upward with the fingers. A special hinge holds the covers in either the closed, half-opened, or fully open position.

VOLUME CONTROL & OFF-ON SWITCH. The "off-on" switch and volume control are operated with the left-hand knob.

TO TURN OFF. Turn the receiver "off" by rotating the volume knob to the left until a click is heard.

TUNING CONTROL. Stations are tuned in with the right-hand knob.

TO OPEN BACK COVER. The back cover may be opened by inserting the fingertips into the slots in the cover and pulling it open. When closing the cover be careful not to pinch the power line cord or other leads between the cover and the cabinet.

117 VOLT AC OR DC OPERATION. The power cord is located inside the cabinet and may be reached by opening the

back cover. Pass the line cord through the slot on the side of the receiver, and plug it into any 117 volt AC or DC power outlet. If the receiver does not operate from DC power, reverse the plug in the power outlet. When operating from AC power, reception may sometimes be improved by reversing the power plug in the outlet. It is not necessary that batteries be installed if the receiver is to be operated only from house power lines.

BATTERY OPERATION. Open the back cover and install the batteries, following the instructions on the label inside the back cover (or see Figure 1). Insert the line cord plug into the receptacle on the chassis, or the receiver will not play from batteries. If the receiver is to be operated for a long period of time from 117 volts AC or DC, or is to be placed in storage, remove the batteries and store in a cool place. **IMPORTANT:** Never leave low or run-down batteries in the receiver, as they will leak or swell and damage it.

ANTENNA. A loop antenna is built into the front cover of models 5J1 and 5J2 series and into the rear cover of models 5L1, 5L2 and 5L1U and 5L2U Series. Because of the slightly directional characteristics of the loop antenna, re-

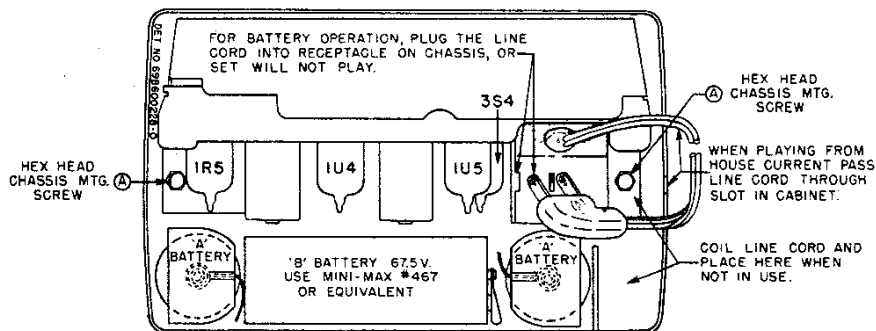
PART NO. 54P610221

MODELS 5L1, 5L1U, Rev.;
5L2, 5L2U, 5L1U, 5L2U;
5J1, 5J1U, Rev.; 5J2,
5J2U; Ch. HS-224, HS-250

ception from some stations may be improved by rotating the entire receiver. In extremely noisy locations, rotate the receiver until minimum noise and maximum signal pickup are obtained.

is noticed when operating from batteries, replace the flashlight cells. Normally, the 67-1/2V "B" battery will last for 3 or 4 changes of the flashlight cells. The condition of the batteries will not affect the operation of the receiver from 117 volts AC or DC. Complete battery replacement instructions will be found inside the cabinet back cover (or see Figure 1).

BATTERY REPLACEMENT. If low volume or fuzzy tone



NOTE: A BATTERIES: USE TWO 1-1/2V. FLASHLIGHT CELLS-EVEREADY #950 OR EQUIVALENT. INSTALL A BATTERIES SO SPRING CONTACTS BOTTOM OF BATTERIES

FIGURE 1. BATTERY INSTALLATION AND CHASSIS REMOVAL INSTRUCTIONS

ALIGNMENT

NOTE: The receiver may be operated either from a battery or from the commercial power lines during alignment. If AC power is used, it is recommended that an isolation transformer be placed between the power line and the receiver. If an isolation transformer is not available, connect the low side of the signal generator to B- through a .1 mf capacitor.

1. Connect a low range output meter across the speaker voice coil.

2. Connect the low side of the signal generator to B-.
3. Set the signal generator for 400 cycle, 30% modulation.
4. Turn the receiver volume control to maximum.
5. Use a small fibre screwdriver for aligning the IF and diode transformers.
6. As stages are brought into alignment, reduce the signal generator output to keep the output of the receiver at approximately .05 watt (.05 watt = .40 volts on the output meter) to avoid overloading the receiver.
7. See Figure 2 for adjustment locations and the following chart for procedure.

ALIGNMENT CHART

STEP	DUMMY ANTENNA	GENERATOR CONNECTION	GENERATOR FREQUENCY	GANG SETTING	ADJUST	REMARKS
IF ALIGNMENT 1.	.1 mf	Grid of conv. (pin 6, 1R5)*	455 Kc	Fully open	1, 2 & 3 (IF Cores)	Adjust for maximum.
RF ALIGNMENT 2.	.1 mf	Grid of conv. (pin 6, 1R5)*	1620 Kc	Fully open	4 (osc.)	Adjust for maximum.
3.	-	-	-	-	-	Install chassis in cabinet, leaving output meter connected to speaker. NOTE: Batteries should be in cabinet.
4.	-	Radiation loop**	1400 Kc	Tune for maximum	5 (Ant.)	Adjust for maximum. Trimmer is reached through hole under plug button on side of cabinet.

*On chassis HS-250 return the grid of the converter tube to AVC either through the loop or through a 4.7 meg resistor (as in chassis HS-224).

**Connect generator output across 5" diameter, 5 turn loop and couple inductively to receiver loop. Keep loops at least 12" apart.

MODELS 5L1, 5L1U, Rev.;
5L2, 5L2U, 5L1U, 5L2U;
5J1, 5J1U, Rev.; 5J2,
5J2U; Ch. HS-224, HS-250

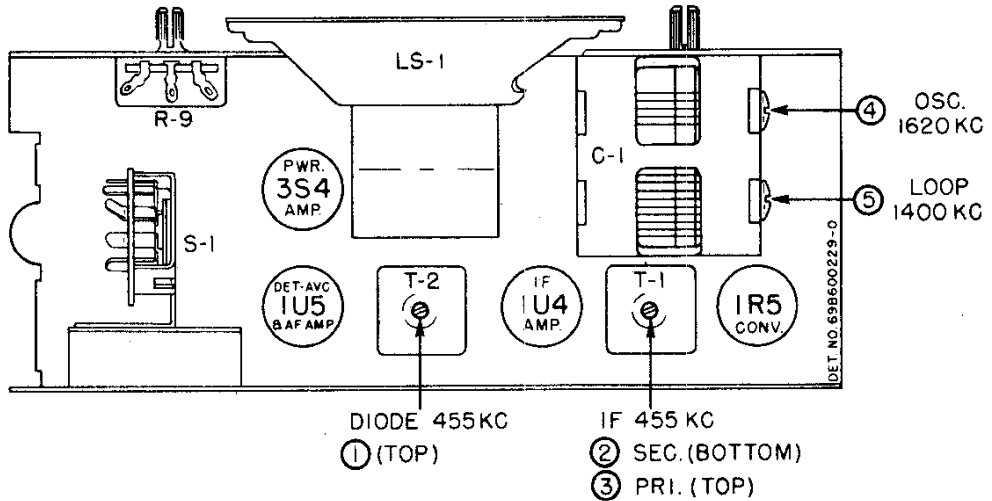


FIGURE 2. TUBE AND TRIMMER LOCATIONS

SERVICE NOTES

GENERAL

The chassis of this receiver is isolated from the AC power line circuit by a capacitor-choke assembly to eliminate the shock hazard when handling the receiver. However, as an additional precaution when aligning or servicing the receiver from AC, an isolation transformer should be inserted between the power line and the chassis.

The tubes are exposed when the rear cover is opened. It is not necessary to remove the chassis to replace tubes.

TO REMOVE THE CHASSIS FROM THE CABINET:

1. Pull off the two control knobs on the front of the cabinet.
2. Open the rear cover and remove the batteries.
3. Disconnect the two loop antenna leads from the chassis.
4. Remove the two hex head screws holding the chassis to the cabinet ("A" - "A" in Figure 1).
5. Slide the chassis from the cabinet.

PRODUCTION REVISIONS

The following revisions in the chassis and cabinets have been made from early production receivers:

1. Alternate IF and diode transformers have been added, with connections as shown on the circuit diagrams. Electrically, the original and the alternate transformers are interchangeable.
2. A multiple capacitor-resistor plate is used in some chassis to replace several resistors and capacitors in the audio circuit. Refer to the appropriate circuit diagram when servicing a chassis.
3. A battery retainer spring, which clips to the rear edge of the chassis, has been provided for the 5J1 and 5J2 series models to prevent the "B" battery from forcing off the rear cover.
4. The rear cover locking clips on the early 5J1 and 5J2 series models were replaced with a different type to provide better locking. The new type clips are interchangeable with the old clips.

REAR COVER HINGE INSTALLATION

The proper method for installing a new hinge in the 5L1, 5L2 and 5L1U, 5L2U series is shown in Figure 3. Note that the under side of the cabinet should rest on an iron block during the heating process to prevent the formation of a heat bubble on the bottom of the cabinet.

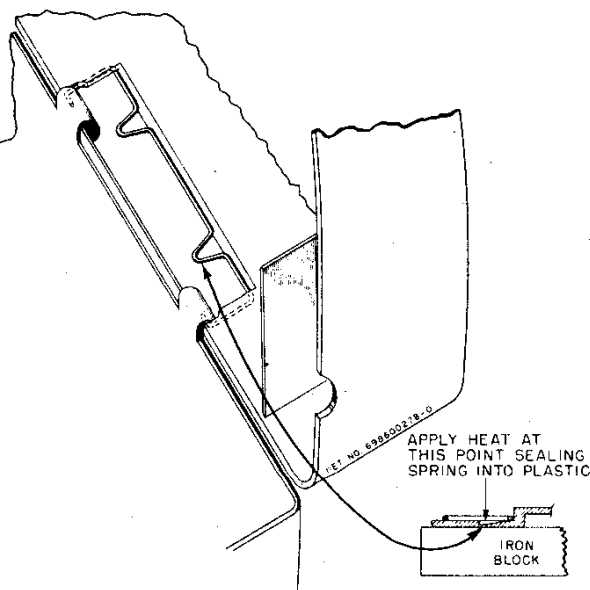


FIGURE 3.

HINGE INSTALLATION FOR 5L1 AND 5L1U SERIES

MODELS 5L1, 5L1U, Rev.;
 5L2, 5L2U, 5L1U, 5L2U;
 5J1, 5J1U, Rev; 5J2, 5J2U;
 Ch. HS-224, HS-250

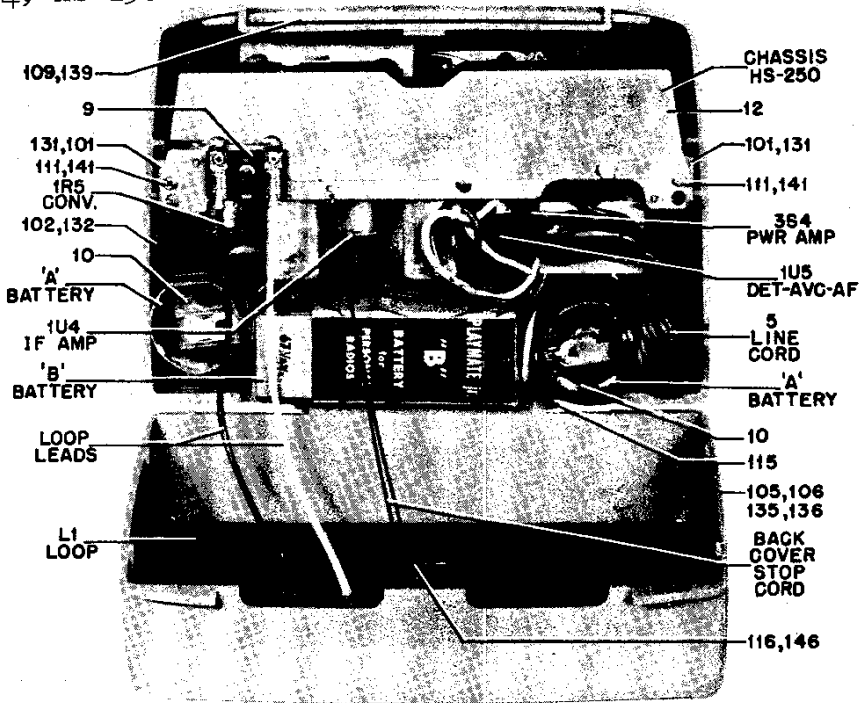


FIGURE 4. 5L1 AND 5L2 REAR VIEW

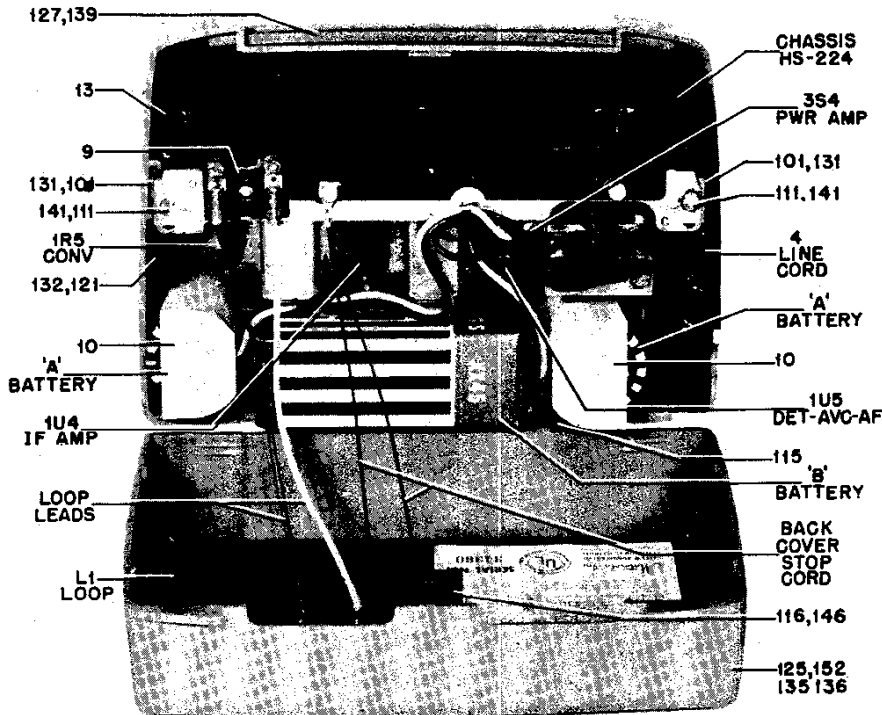


FIGURE 5. 5L1U AND 5L2U REAR VIEW

MODELS 5L1, 5L1U, Rev.;
 5L2, 5L2U, 5L1U, 5L2U;
 5J1, 5J1U, Rev.; 5J2,
 5J2U; Ch. HS-224, HS-250

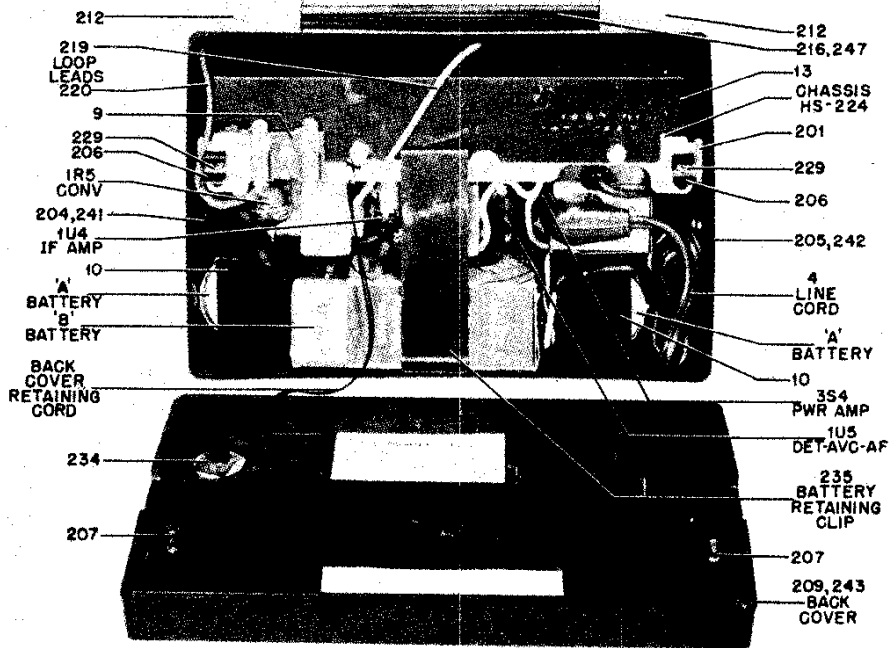


FIGURE 6. 5J1U AND 5J2U REAR VIEW

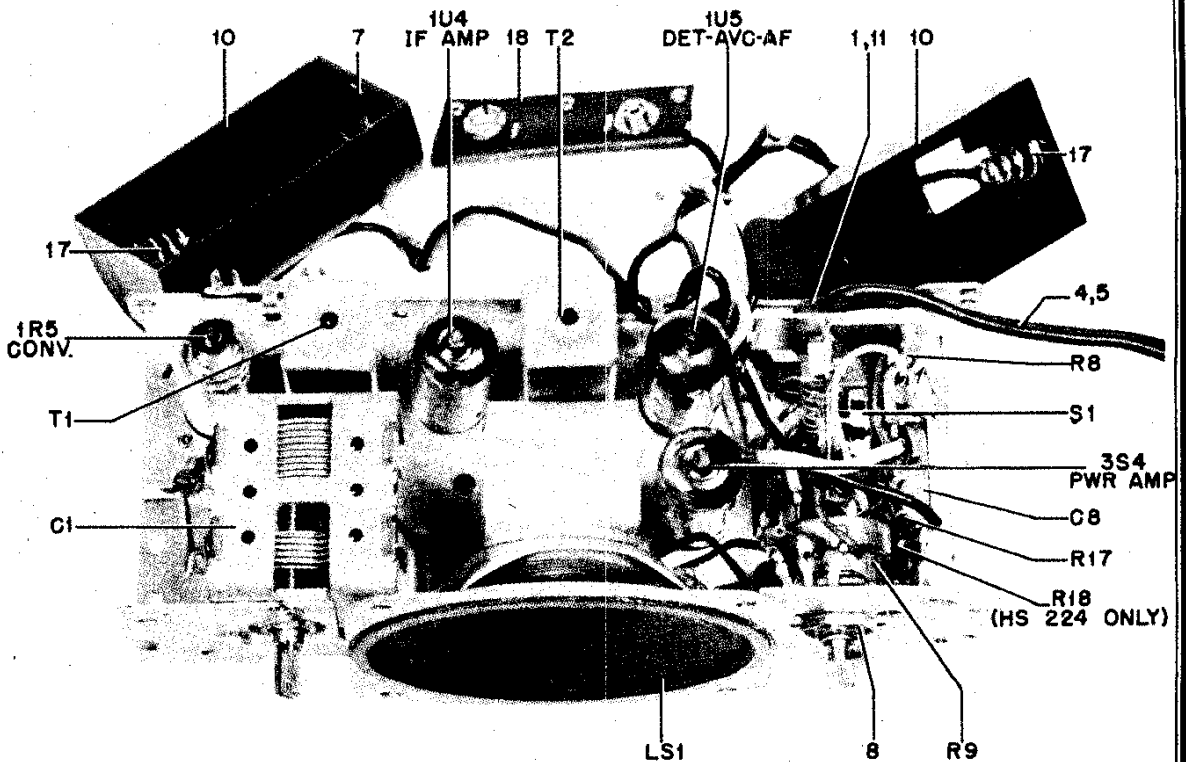


FIGURE 7. HS-224 AND HS-250 TOP VIEW OF CHASSIS

MODELS 5L1, 5L1U, Rev.;
 5L2, 5L2U, 5L1U, 5L2U;
 5J1, 5J1U, Rev.; 5J2,
 5J2U; Ch. HS-224, HS-250

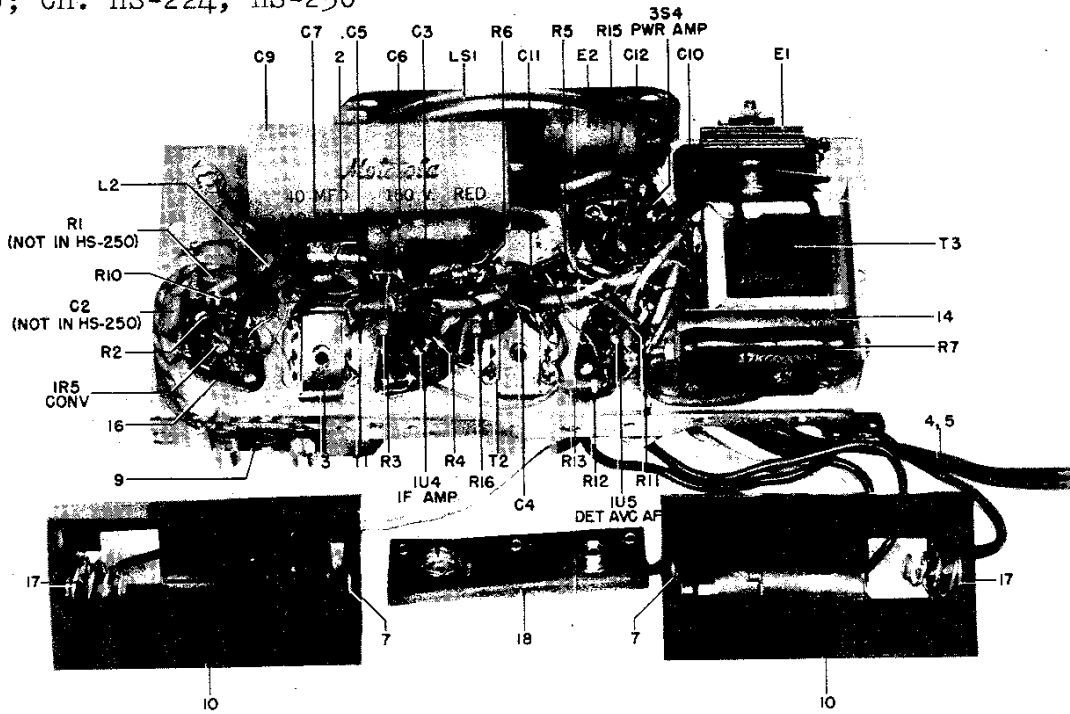


FIGURE 8. BOTTOM VIEW OF CHASSIS HS-224 AND HS-250 SHOWING MULTIPLE CAPACITOR PLATE

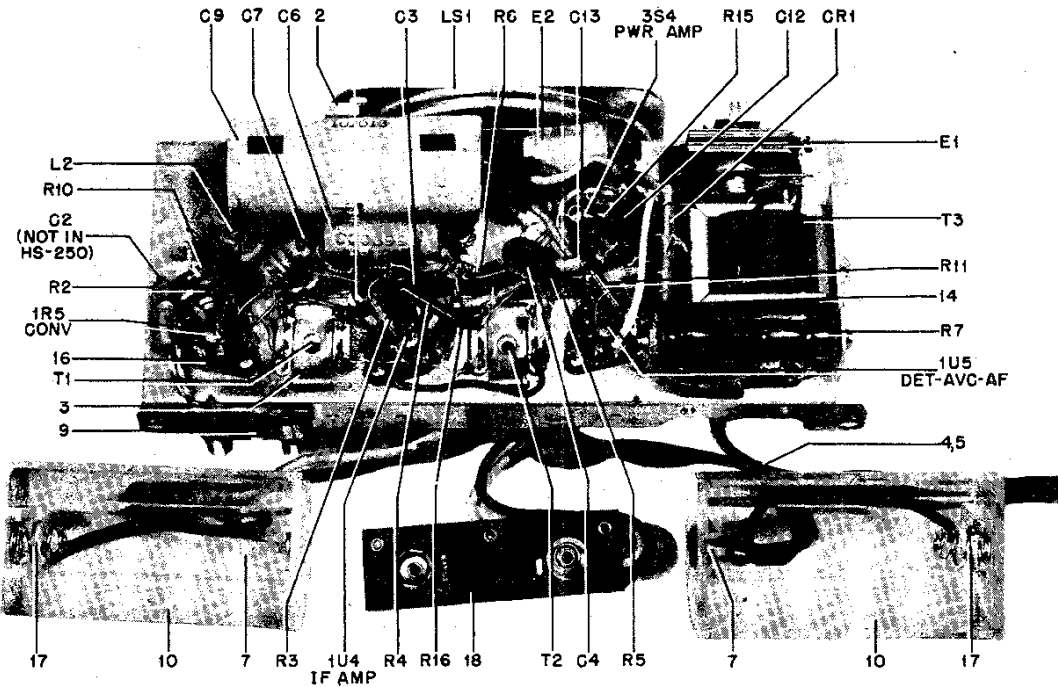


FIGURE 9. BOTTOM VIEW OF CHASSIS HS-224 AND HS-250 SHOWING MULTIPLE CAPACITOR-RESISTOR PLATE

MODELS 5L1, 5L1U, Rev.;
5E2, 5L2U, 5L1U, 5L2U;
5J1, 5J1U, Rev.; 5J2,
5J2U; Ch. HS-224, HS-250

Ref. No.	Part Number	Description	Ref. No.	Part Number	Description
	MODEL 5L2U CABINET PARTS - Same as 5L2 & 5L2U except:			3S7327	Screw, machine: 5-40 x 3/8 plain hex head (handle mtg).....
152	16K601703	Cover, cabinet back: less latch spring and loop antenna.....		3S7155	Screw, machine: 6-32 x 3/16; plain hex head (holds hinge to hinge mtg bracket).....
	36K610034	Knob, tuning: maroon plastic		3S490018	Screw, sheet metal: #2 x 1/4; PKZ; phillips flat head; blk nkl (mounts loop to front cover).....
	MODEL 5J1 & 5J1U CABINET PARTS			229 3S8136	Screw, sheet metal: #4 x 1/4; PKZ; phillips round head; blk nkl (chassis support bracket mtg).....
201	7A600078	Bracket, chassis support (on sides of chassis)....		3S400036	Screw, thread cutting: #6 x 3/8; PKF; slotted binder head (holds hinge mtg brkt).....
	7A692061	Bracket, hinge mtg: black nickel finish (inside cabinet front).....		3S488009	Screw, thread cutting: #6 x 3/8; type 25 plain hex head (mounts chassis to cabinet).....
	14K600713	Bushing, insulating: bakelite (on handle mtg cover).....		2S490840	Speednut: for 1/16 stud; black parkerized finish (medallion mtg).....
204	38K692052	Button, plug: black.....		2S7092	Speednut: for .125 stud; black parkerized finish (spkr grille mtg)....
205	16E691798	Cabinet, front section: less grille, loop and front cover; black plastic		234 2S490842	Speednut: for .271 stud; black parkerized finish (holds cover stop cord).....
206	42A600664	Clip, cabinet locking (on front section of cabinet) (replaces 42K692143)..		235 42A600663	Spring, battery retainer..
207	42A600665	Clip, cabinet locking (on rear cover) (replaces 42A480078).....		41A692060	Spring, handle (inside plastic handle).....
	13A691938	Cloth, grille.....		4S1719	Washer, flat; 3/8 x .140 x .030 stl; (handle mtg)
209	1X600173	Cover Assembly, cabinet back; complete with locking clip and stop cord; black plastic.....		MODEL 5J2 & 5J2U CABINET PARTS - Same as 5J1 except	
	1X692139	Cover and Loop Assembly, cabinet front: complete with hinges and medallion; black plastic.....	241	38K600402	Button, plug: green.....
	15D691894	Cover, cabinet front: less medallion and loop; black plastic.....	242	16K600409	Cabinet, front section: less grille, loop and front cover; green plastic
212	55A692058	Cover, handle mtg: brass plated (over ends of handle).....	243	1X600438	Cover Assembly, cabinet back: complete with locking clip and stop cord; green plastic.....
	7A691932	Frame, grille: satin brass finish (around top of speaker grille).....		1X600435	Cover and Loop Assembly, cabinet front: complete with hinges and medallion; green plastic.....
	7K691934	Frame, grille: satin brass finish (around bottom of speaker grille).....		15K600414	Cover, cabinet front: less medallion and loop; green plastic.....
	13C691896	Grille, speaker: green plastic.....		13K600408	Grille, speaker: black plastic.....
216	55A691944	Handle, carrying: black plastic; less spring.....	247	55K600401	Handle, carrying: less spring; green plastic....
	1X692142	Hinge Assembly, front cover: complete.....		36K600859	Knob, control black plastic
	36B691923	Knob, control: green plastic		5S7773	Rivet: .122 x 7/32 stl; ant copper (mounts hinge to loop panel).....
219	1X692137	Lead and Eyelet Assembly: white (loop lead).....		3S3389	Screw, sheet metal: #2 x 1/4 PKZ; phillips flat head; statuary bronze finish (mounts loop to front cover).....
220	1X692138	Lead and Eyelet Assembly: green (loop lead).....			
	29R3037	Lug, soldering: #6 hole (loop lead connector-on loop panel).....			
	13A691927	Medallion: brass plated (on front cover).....			
	64A692191	Plate, handle mtg (under ends of handle).....			
	64A600044	Plate, loop panel support (under loop hinges on loop panel).....			
	5S490843	Rivet: .122 x 7/32 stl; black nkl (mounts hinge to loop panel).....			