ENGINEERING DATA STROMBERG-CARLSON NO. 430 RADIO RECEIVERS

STROMBERG-CARLSON TELEPHONE MANUFACTURING COMPANY ROCHESTER, NEW YORK

IDENTIFICATION TABLE

Model	Input Power Frequency	Chassis	Cabinet	Speaker
430-H	50-60 Cycles	30317	30457	30358
430-HB	25-60 Cycles	30318	30457	30358
430-L	50-60 Cycles	30317	30104	27834
430-LB	25-60 Cycles	30318	30104	27834
430-M	50-60 Cycles	30317	30105	30359
430-MB	25-60 Cycles	30318	30105	30359
$430 ext{-}\mathrm{PL}$	50-60 Cycles	30867	30993	26170
430-PLB	25 Cycles only	30868	30993	26170
430-PF	50-60 Cycles	30867	30866	26171
430-PFB	25 Cycles only	30868	30866	26171

SPECIFICATIONS

Type of Circuit	. Superheterodyne with Electric Tuning —540 to 1700 Kc. C—5800 to 18000 Kc Nine
Type of Tubes	6A8, Modulator and Oscillator
	6K7, I. F. Amplifier
	6H6, Demodulator and A. V. C.
	6SQ7, Audio Amplifier
	6SQ7, Audio Inverter
	6V6G, Output
	6V6G, Output
	80, Rectifier
Voltage Poting	6AF6G, Tuning Indicator
Voltage Rating	50 60 Cycles also avoilable 95 60 Cycles
Input Power Bating—	•
Radio Models only	92 Watts
Radio-Phono Models	110 Watts
Intermediate Frequency	455 Kilocycles
Speaker Voice Coil Impedance at 400 Cycles	Approximately 1.5 Ohms
Speaker Voice Coil Impedance at 400 Cycles	1050 Ohms

FEATURES

General

This is a nine tube, three gang, two range receiver with the 1600 Kc. to 1700 Kc. police band included in the broadcast band.

Eight button automatic tuning is provided. The tuning unit is composed of a group of coils which are adjusted by means of iron cores so that seven favorite stations may be set up. The eighth button is for switching to phonograph or television. Tone is adjusted by a variable tone control, and the dial is of the slide rule type, edge lighted to provide clear visibility without glare.

Provision is made for a record player to be used with all models not already equipped with phonograph mechanism without additional wiring. The No. 430 Phonograph Models are equipped with an automatic record changer using a crystal pick-up in conjunction with a specially equalized circuit. This record player shifts and plays either 10 or 12 inch records.

The chassis is designed to provide excellent sensitivity and tone quality, and the power output is greater than previously found in a set of this type. The selectivity and freedom from interference should be quite satisfactory.

Special Circuits

A tuning indicator having two apertures, one for strong signals and one for weak signals, is used with this chassis. One aperture will close with a signal of approximately 100,000 microvolts, and the other will not close even with a two volt signal.

Iron core coils are used in the oscillator and antenna circuits to provide greater stability and, in addition, a thermal drift compensator is included in the circuit.

The high frequency end of each band is spread out by means of special capacitor plates, to provide greater ease in tuning.

Automatic Tuning

An adjustable iron core coil type of automatic tuning is employed and the stations may be easily located by properly utilizing the concentric adjusting screws provided. A special tool known as the SD-70 Screwdriver will help materially in setting up the automatic tuning.

Phonograph Operation

A socket is provided on the back of the chassis of all receivers not already equipped with phonograph mechanism into which a record player may be plugged, and a switch is provided on the front of the chassis for switching from "Radio" to "Phonograph".

Television

Switching to "Phonograph" also makes the audio amplifier and loud speaker available for use with television receivers designed for this type of sound reproduction.

ACCESSORIES

Antenna

For best results use a Stromberg-Carlson Antenna. These Antennas are supplied in kits containing all the necessary parts for mounting and installation and are designed especially for use with all Stromberg-Carlson receivers.

Playing Records

To obtain the best quality of phonograph reproduction with receivers not already equipped with phonograph mechanism a Stromberg-Carlson record player is recommended. They are designed for use with this receiver, and all that is necessary is to connect the record player to the single prong socket provided in the chassis and proceed to operate. The volume and tone may be controlled with the controls at the receiver, or (if such is provided) the volume control on the record player may be used.

A low impedance pick-up may also be used, but a matching transformer must be placed between the phonograph pick-up and the chassis.

Headset Attachment

Headphones can be very simply attached to this receiver. Ask for Pc. No. 28303 Headset Package Assembly, which comes complete with headphones and installation instructions.

Care of Cabinet

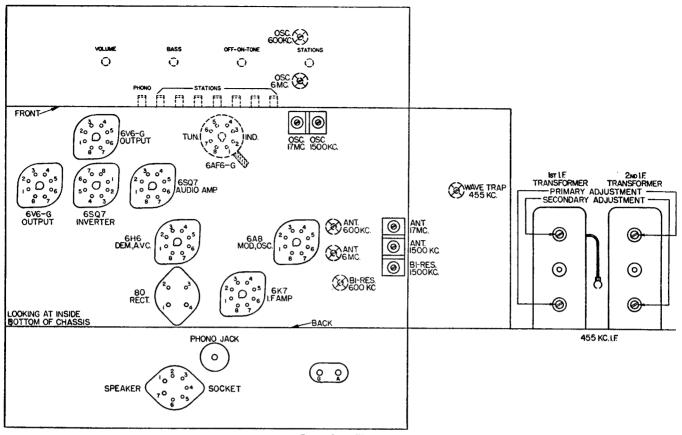
The finish of Stromberg-Carlson Cabinets should be protected by using Stromberg-Carlson Cabinet Polish regularly. It is available in pint cans, designated as Pc. No. 28601.

Nicks and scratches of most kinds can be repaired quickly and easily by proper use of the Pc. No. 26962 Touch-Up Kit. Complete instructions are provided with each kit.

Tools

Stromberg-Carlson can supply all the tools required for working on these sets. For example:

SD-29 Phillips Head Screwdriver SD-70 Adjusting Tool (for setting up stations) No. 24608 Aligning Tool Also pliers, cutters, screwdrivers, etc.



Location Chart

ALIGNING INFORMATION

NEVER ALIGN UNLESS ABSOLUTELY NECESSARY.

Use a good modulated signal generator (test oscillator) with variable output voltage and a sensitive output meter across the voice coil of the speaker.

Always align using the smallest possible input from the signal generator (except when wave trap adjustment is made). A strong signal makes adjustments inaccurate.

Always have receiver volume control full on.

Never align with tone control in "Bass" position.

See location chart above for location of all the aligning adjustment screws.

Aligning Procedure (follow this order exactly)

I. Dial pointer adjustment.

With the plates of the gang tuning capacitor fully engaged, set the dial pointer directly on the vertical line located at the extreme low frequency end of the short-wave band.

- Intermediate frequency adjustments.
 - 1. Set the range switch to Standard Broadcast position.
 - 2. Tune set to extreme low frequency end of the dial.
 - Connect the ground terminal of the signal generator to the ground terminal of the chassis.
 - 4. Introduce a modulated signal of 455 Kilocycles to the grid cap of the 6A8 Tube, using a 0.1 microfarad capacitor in series with the output lead of the signal generator. (Do not remove the grid clip from this tube.)
 - 5. Adjust the I. F. Aligners for maximum output in the following order:
 - Secondary of second I. F. transformer.
 - Primary of second I. F. transformer. Secondary of first I. F. transformer. В.

 - Primary of first I. F. transformer.

III. Radio frequency adjustments.

Short Wave Range (C Band)

- 1. Replace the 0.1 microfarad capacitor in series with the output lead of the signal generator with a 400 ohm carbon type resistor, and connect it to the antenna terminal of the chassis.
- 2. Set the range switch to the short-wave range (C Band).
- 3. Set the signal generator frequency and the receiver tuning dial to 6 megacycles.
- 4. Adjust the 6 megacycles oscillator and antenna (iron cores) for maximum signal.
- 5. Set the signal generator frequency and the receiver tuning dial to 17 megacycles.
- 6. Adjust the 17 megacycles oscillator and antenna aligning capacitors for maximum signal.
- 7. Repeat operations three and four.
- 8. Repeat operations five and six.

Standard Broadcast Range (A Band)

- 1. Replace the 400 ohm carbon type resistor in series with the output lead from the signal generator with a 200 micro-microfarad capacitor.
- 2. Set the range switch to the Standard Broadcast Range (A Band).
- 3. Set the signal generator frequency and the receiver tuning dial to 600 Kc.
- 4. Adjust the 600 Kc. oscillator, Bi-Resonator and antenna (iron cores) for maximum signal.
- 5. Set the signal generator frequency and the receiver tuning dial to 1500 Kc.
- 6. Adjust the 1500 Kc. oscillator, Bi-Resonator and antenna aligning capacitors for maximum signal.
- 7. Repeat operations three and four.
- 8. Repeat operations five and six.

IV. Wave Trap Adjustment.

(Leave the receiver connected in the same manner as when adjusting the Standard Broadcast Range (A Band)).

- 1. Tune set to 1000 Kc.
- 2. Set the signal generator frequency to 455 Kc. and introduce a fairly strong modulated signal to the receiver.
- 3. Adjust the wave trap aligner for minimum signal.

ADJUSTING DIAL LAMP

The dial on this receiver is edge lighted, and for proper illumination it is very important that the dial light be adjusted so that the filament is exactly opposite the edge of the glass.

To make this adjustment simply slide the pilot light socket back and forth on its mounting bracket until maximum illumination is obtained.

NORMAL VOLTAGE READINGS

Take all readings with chassis operating and tuned manually to 1000 Kc.—no signal.

Use a line voltage of 120 volts, or make allowance for the variation.

Use a good high resistance voltmeter having a resistance of at least 1000 ohms per volt.

Take all D. C. readings on the 500 volt scale except when an asterisk appears.

Read from indicated terminals to chassis base.

See location chart on Page 4 for position of terminals. A. C. voltages are indicated by italics.

To measure voltages of 6AF6G tube remove the metal cover on the tuning indicator socket and read from indicated terminals.

						Heater Voltage Between Heat						
											Between Termi	
Tube	Circuit	Cap	1	2	3	4	5	$\begin{vmatrix} & & & \\ & 6 & & \end{vmatrix}$	7	8	Socket Terminal Numbers	Volts A.C.
6A8	Mod.—Osc.	0	0	0	+250	+110	8*	+173	6.5	+3*	2–7	6.5
6K7	I.F. Amp.	0	0	0	+253	+108	+3.5*		6.5	+3.5*	2–7	6.5
6 H6	Dem.—A. V. C.	_	0	0	0	0	0	0	6.5	0	2–7	6.5
6SQ7	Audio Amp.		0	0	0	0	0	+108	6.5	0	2–7	6.5
6SQ7	Audio Inv.		0	0	0	0	0	+108	6.5	0	2–7	6.5
6V6G	Output		0	0	+250	+254	0		6.5	+14.5	2–7	6.5
6V6G	Output		0	0	+250	+254	0		6.5	-+14.5	2–7	6.5
6AF6G	Tuning Ind.		+90			+220	+110	+52	6.5	0	2–7	6.5
80	Rectifier		+382	375	375	+382		_			1–4	5
	Speaker Socket			+382	0	0	+382	+382				

^{*}Read on lowest possible scale of voltmeter.

CONTINUITY TEST

CAUTION: Remove all tubes and disconnect the receiver from the power supply before making continuity test.

Use a good meter capable of measuring accurately up to several megohms.

The resistances given are often approximate, owing to electrolytic capacitors in the circuit. When this is the case, be sure to reverse the test leads and read the highest resistance.

Read from indicated terminals to chassis base unless otherwise specified.

See location Chart on Page 4 for position and numbering of terminals.

Tube	TERMINALS OF SOCKETS											
	Circuit	Cap	1	2	3	4	5	6	7	8		
6A8	Mod.—Osc.	A	S	S	20000¶	В	48000¶	С	S	270¶		
6K7	I. F. Amp.	3M	S	S	19000¶	D	390¶	29000¶	S	390¶		
6H6	Dem.—A. V. C.	-	S	S	50000¶	S	50000¶	20000¶	S	S		
6SQ7	Audio Amp.		S	10M	S	S	S	300000¶	S	S		
6SQ7	Audio Inv.		S	10M	S	S	S	300000¶	S	S		
6 V 6	Output (E)	_	S	S	16000¶	16000¶	270000¶	100000¶	S	200¶		
6 V 6	Output		S	S	16000¶	16000¶	400000¶	0	S	200¶		
80	Rectifier		19000¶	100¶	120 ¶	19000¶	_	-				
6AF6G	Tun. Ind.		0	S	270000¶	100000¶	16000¶	0	S	6500¶		
	Speaker Socket		100000¶ or Greater	S	S	0	100000¶ or Greater	0	16000¶			

Symbols used on chart are as follows: \(\int \) ohms; M—megohms; S—short; O—open.

A.	Push in any pre-set station button;	
	Set range switch to Push Button position	
	Set range switch to "A" range position	
	Set range switch to "C" range position	2.8 megohms
	Push buttons in normal position (all buttons out);	
	Set range switch to Push Button position	"open"
	Set range switch to "A" range position	2.8 megohns
	Set range switch to "C" range position	2.6 megonins
В.	Push in "Phono" button	200,000 ohms
	Push in any pre-set station button	70,000 ohms
C.	Push in "Phono" button	200,000 ohms
	Push in any pre-set station button	50,000 ohms
D.	Push in "Phono" button	200,000 ohms
	Push in any pre-set station button	100,000 ohms
E.	6V6 Tube Socket nearest to the front of the chassis	

Other Tests Not Shown on Chart

Antenna terminal to chassis base	
Phono terminal to chassis base	"open"
Test between terminals of A.C. plug;	"open"
A C assistate amon	"onon"

R. F. coil tests measure directly across R. F. coil terminals with range switch in broadcast position ("A" range): L3—.8 ohm; L4—.8 ohm; L5—.1 ohm; L6—3 ohms; L7—.3 ohm; L8—4 ohms; L9—.1 ohm; L10—"short"; L11—.1 ohm; L12—"short".

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INSTRUCTIONS FOR SETTING UP PUSH BUTTONS

IMPORTANT: The stations selected should be the local or favorite stations which give good reception at all times.

Set up stations in the daytime to avoid unnecessary interference.

Allow the set to run for about twenty minutes before setting up stations.

Always use the tuning indicator unit when setting up stations in order to determine when the station is exactly in tune.

- 1. Remove the push button escutcheon by removing the screws and pulling downward and outward.
- 2. Put the call letters of the selected stations in place above the push buttons. The stations should be arranged according to frequency with the highest frequency at the right and the lowest frequency at the left, just as on the dial. (The call letters will be found inside the envelope stapled inside or underneath the cabinet.)
- 3. Tune in manually the highest frequency station to be set up and note carefully the program being transmitted.
- 4. Turn the range switch to the push button position and push the highest frequency button.
- 5. Using a very small screwdriver adjust the slot in the inner screw until it coincides with the slot in the outer screw.
- 6. Using a larger screwdriver, adjust both screws at the same time until the desired station is tuned in as well as possible.
- 7. Using the small screwdriver again, adjust the small inner screw for maximum closing of the tuning indicator. (Be sure the outer screw does not move while adjusting the inner screw.)

Operations 5, 6 and 7 can be greatly simplified by using Stromberg-Carlson SD-70 Adjusting Tool which is a double screwdriver designed to fit both of these screws at the same time.

- 8. Set up the other stations in the same manner.
- 9. Recheck the adjustment of each adjusting screw.

REPLACEMENT PARTS

Use genuine Stromberg-Carlson parts. It will be to your advantage. They are made for use in Stromberg-Carlson receivers. The specifications are correct and the same high quality material and workmanship is used as in the whole radio receiver. Don't ruin a good receiver with an inferior part.

Capacitors

Piece												
Number	Circuit	Designa	tion		Part							
24405					.04 mf. Capacitor							
24559	C-44 .				100 mmf. Capacitor		•					
24637	C-16 .	• •		•	.0017 mf. Capacitor							
25054	(C-49-430				150 mmf. Capacitor				•			
25149	C-1 .		•	•	.01 mf. Capacitor							
25150 25487	C-34 . C-42 .	•	•	•	.02 mf. Capacitor	•	•	•	•	•		•
26151			•	•	.001 mf. Capacitor	•	•	•	•	•	•	•
27108	C-26, 27, 28	. 29. 30. 31	•	•	2—.05 mf. Capacitors	•	•	•	:	•	:	٠
27305	C-43 .				50 mmf. Capacitor	•	•	•		•	•	•
28594	C-33 .		•		.015 mf. Capacitor	:	:	:	:		:	•
30116	C-45 .				.003 mf. Capacitor							
3 023 7	C-15 . C-35, 36, 37				385 mmf. Capacitor							
30322	C-35, 36, 37	, 38, 39, 40			.005 mf. Capacitor							
30559	C-46, 47		•	•	200 mmf. Capacitor							
30560	C-48 .		•	•	85 mmf. Capacitor Electrolytic Capacitor, 20 mf	•	•					
27685 3 049 9	C-21 .		•	•	Electrolytic Capacitor, 20 mf	., 25 V.			٠.	·	•	•
30433	C-17, 18, 19	•	•	•	Electrolytic Capacitor (1—40	m1., 4	50 V.;	115	mf., 3	350 V.	;	
30253	C-6, 7, 8				1—15 mf., 300 V.) Aligning Capacitor Assembly Aligning Capacitor Assembly Tuning Capacitor (3 gang)	. (2	45	•	•	•	•	٠
30502	C-9, 10		•	•	Aligning Capacitor Assembly	(2 um	i+)	•	•	•	•	٠
30375	C-3, 4, 5	: :		:	Tuning Capacitor (3 gang)	(2 44		•	•	•	•	٠
			•	•		•	•	•	•	•	•	•
Coils, Tra	a n sforme	rs and S	Speal	kers								
30149	L-3, 4		_	_	Bi-resonator Coil							
30150	L-7. 8		·	:	Oscillator Coil "A" Band .	•	•				:	:
30238	L-7, 8 L-2 .		•		Wave Trap		•	•	•	•	•	•
3 0 33 2	L-1 .		•		R. F. Choke Coil		·			:	:	Ċ
30401	L-9, 10			•	Antenna Coil "C" Band							÷
3 0402	L-11, 12				Oscillator Coil "C" Band .			•				
3 0500	L-5, 6		•	•	Antenna Coil "A" Band .							
27134	L-17, 18 L-21, 22, 23,	• •	•	•	Output Transformer .							
30424	L-21, 22, 23,	, 24 .	•	•	Power Transformer (50/60 C	ycles)						
30425			•	•	Power Transformer (25/60 C	ycles)						
00.400		00 0 0										-
30432	L-25, 26, 27,	28, C-25	• ·	•	Push Button Coil and Switch	Assem	ıbly (430-H,	L onl	ly)		
31078			•	:	Push Button Coil and Switch	Assem	ibly (430-H, 430-PI	L onl	ly) o nlv)	٠	
31078 30245	L-15, 16, C-	13, 14	•	•	Push Button Coil and Switch Second I. F. Transformer	Assem	ibly (430-H, 430-PI	L onl	ly) o nlv)	٠	:
31078 30245 30504		13, 14	•	:	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer .	Assem	ibly (ibly (430-H, 430-PI	L onl	ly) o nlv)	٠	:
31078 30245 30504 26170	L-15, 16, C-	13, 14	•	:	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL)	Assem	ibly (ibly (430-H, 430-PI	L onl	ly) o nly)		
31078 30245 30504	L-15, 16, C-	13, 14	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL)	Assem	ibly (ibly (430-H, 430-PI	L onl , PF	ly) o nly)	٠	
31078 30245 30504 26170 26250	L-15, 16, C-	13, 14	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF)	Assem	ibly (ibly (430-H, 430-PI	L onl	ly) o nly)		
31078 30245 30504 26170 26250 26171	L-15, 16, C-	13, 14		•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF)	Assem	ibly (ibly (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492	L-15, 16, C-	13, 14	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF) . Speaker (430-L) . Cone for Speaker (430-L)	Assem	ibly (ibly (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359	L-15, 16, C-	13, 14	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF) Speaker (430-L) . Cone for Speaker (430-L) Speaker (430-M) .	Assem	ibly (ibly (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421	L-15, 16, C-	. 13, 14 11, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF) Speaker (430-L) . Cone for Speaker (430-L) Speaker (430-M) .	Assem	ibly (ibly (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358	L-15, 16, C-	13, 14		•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF) Speaker (430-L) . Cone for Speaker (430-L) Speaker (430-M) . Cone for Speaker (430-M) Speaker (430-H) .	Assen	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421	L-15, 16, C-	. 13, 14 11, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF) Speaker (430-L) . Cone for Speaker (430-L) Speaker (430-M) .	Assen	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358	L-15, 16, C- L-13, 14, C-	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer . First I. F. Transformer . Speaker (430-PL) . Cone for Speaker (430-PL) Speaker (430-PF) . Cone for Speaker (430-PF) Speaker (430-L) . Cone for Speaker (430-L) Speaker (430-M) . Cone for Speaker (430-M) Speaker (430-H) .	Assen	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H)	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls	L-15, 16, C- L-13, 14, C-	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Conf	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Cone for Speaker (430-M) Cone for Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27838 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob Small Knob with Arrow	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30501 30250 27802 28827	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28843	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28843 29084	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28827 28843 29084 29461	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Cone for Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28827 28843 29084 29461 27628 Resistors	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Cone for Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob Felt Washer for Knobs	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28843 29084 29461 27628	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	•	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Rnob with Arrow Large Plain Knob Felt Washer for Knobs	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30501 30250 27802 28827 28843 29084 29461 27628 Resistors 26326	L-15, 16, C- L-13, 14, C- 	. 13, 14 111, 12 	•	• • • • • • • • • • • • • • • • • • • •	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Cone for Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob Felt Washer for Knobs	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30504 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28843 29084 29461 27628 Resistors 26326 26326 26328 26333 26336	L-15, 16, C-L-13, 14, C-1	. 13, 14 111, 12 	•	• • • • • • • • • • • • • • • • • • • •	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob Felt Washer for Knobs 270 Ohm Resistor, Type E 390 Ohm Resistor, Type E	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30501 30250 27802 28827 28843 29084 29461 27628 Resistors 26326 26328 26338 26336 26349	L-15, 16, C-L-13, 14, C-1	. 13, 14 111, 12 	•	• • • • • • • • • • • • • • • • • • • •	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Rnob with Arrow Large Plain Knob Felt Washer for Knobs 270 Ohm Resistor, Type E 390 Ohm Resistor, Type E 1000 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28843 29084 29461 27628 Resistors 26326 26328 26333 26336 26349 26350	L-15, 16, C-L-13, 14, C-1	. 13, 14 11, 12		• • • • • • • • • • • • • • • • • • • •	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-M) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob Felt Washer for Knobs 270 Ohm Resistor, Type E 390 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 27,000 Ohm Resistor, Type E 27,000 Ohm Resistor, Type E	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28843 29084 29461 27628 Resistors 26326 26328 26336 26336 26336 26350 26353	L-15, 16, C-L-13, 14, C-15, 16, C-17, 16, C-17	. 13, 14 11, 12			Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob Felt Washer for Knobs 270 Ohm Resistor, Type E 390 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 27,000 Ohm Resistor, Type E 27,000 Ohm Resistor, Type E 47,000 Ohm Resistor, Type E 47,000 Ohm Resistor, Type E	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		
31078 30245 30544 26170 26250 26171 25492 27834 27808 30359 30421 30358 22255 Controls 27311 29560 30501 30250 27802 28827 28843 29084 29461 27628 Resistors 26326 26328 26333 26336 26349 26350	L-15, 16, C-L-13, 14, C-1	. 13, 14 11, 12		• • • • • • • • • • • • • • • • • • • •	Push Button Coil and Switch Second I. F. Transformer First I. F. Transformer Speaker (430-PL) Cone for Speaker (430-PL) Speaker (430-PF) Cone for Speaker (430-PF) Speaker (430-L) Cone for Speaker (430-L) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-M) Speaker (430-M) Cone for Speaker (430-M) Speaker (430-H) Off-On Switch and Tone Cont Volume Control Range Switch Bass Control Switch Large Tuning Knob Small Knob with Arrow Small Plain Knob Large Knob with Arrow Large Plain Knob Felt Washer for Knobs 270 Ohm Resistor, Type E 390 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 22,000 Ohm Resistor, Type E 27,000 Ohm Resistor, Type E 27,000 Ohm Resistor, Type E	Assem	ably (ably (430-H, 430-PI	L onl , PF	ly) only)		

REPLACEMENT PARTS—Continued

	•										
Piece					.						
Number			gnation		Part						
26362	R-15, 16, 2	2, 23, 3	3, 34 .		.27 Megohm Resistor, Type E						
26365	R-24, 25, 2	8 (R-36	6430-P	L, PF)							•
26373	R-14 .				2.2 Megohm Resistor, Type E				•		
26381	R-12, 13				10 Megohm Resistor, Type E						
28956	R-27 .				10 Megohm Resistor, Type E 200 Ohm Resistor, Type I. R. C.	•					
30400	R-23, 30, 3	1			"B" Voltage Divider .						
30417	R-26 .				10,000 Ohm Resistor, Type G				-		
Miscellar	neous Pai	rts									
SD-67				_	Dial Drive Cord						
26122	• •	•	•	•	Dial Drive Cord Antenna and Ground Terminal	Strip					
26677	•	•	•	•	3-Prong Plug						
27088	•	•	•	•	3-Prong Plug Spring Washer for Mounting C	oils					
27969	•	•	• •	•	Phono. Cord and Plug						
28652	•	•	•	•	Power Supply Cord Pilot Lamp Socket						
28694	• •	•		•	Pilot Lamp Socket	: :	·				
29956	• •	•	• •	•	Pilot Lamp		·				
29628	• •	•	•	•	Pilot Lamp		<i>.</i>			·	
30055	•	•		•	Dial Scala		•	•	•	:	
30269		•		•	Dial Scale		•	•			
30205 30151	•	•		•	8-Prong Tube Socket .	•	•	•	•		
30152		•		•	7-Prong Tube Socket .		·		•		
30152 30153		•		•	1-Prong Tube Socket	•	•	•	•	•	
30169		•		•	4-Prong Tube Socket . Station Call Letters		•	•	•	•	•
30109 30172	•	•		•	Diel Frantcheen		•	•	•	•	•
30172 30341		•		•	Dial Escutcheon Screw for Mounting Dial Escut	choon	•	•	:		•
30341 30175		•		•	Duch Rutton Escutcheon	cheon	•	•	•	•	
30175 30345		•		•	Push Button Escutcheon . Screw for Mounting Push Butto	n Feanta	haan	•	•	:	
30224		•		•	Dhone Ding	JII ESCUIC	псон	•	•	•	•
		•	•	•	Phone Cuerd		•	•	•		
30225		•		•	Phono. Plug Phono. Guard Phono. Jack		•	•	•	•	•
30226		•		•	Phono. Jack		•	•		•	•
30265		•		•	Cond Assembly for Dial Dointon	· ·	•	•	•	•	•
30275		•	•	•	Distriction Distriction		•	•	•	•	•
30276		•	•	•	Diai Pointer		•	•	•		•
30261		•	•	•	Tuning Indicator Cable .		•	•	•	•	•
30355		•		•	Rubber Bumper		•	•	•		•
30929				•	Connector Plug (430-PF, PL)	· ·	•	•	•	•	•
30930		•		•	Phono. Jack Pulley Assembly Cord Assembly for Dial Pointer Dial Pointer Tuning Indicator Cable Rubber Bumper Connector Plug (430-PF, PL) Connector Assembly (430-PF, I	·L) .	•	•	•	٠	•
Tools an	d Access	ories									
SD-29					Phillips No. 1 Screwdriver						
SD-70					Phillips No. 1 Screwdriver Adjusting Tool for Setting Up	Stations					
24608		•	: :	-	Aligning Tool						
28601			: :		Cabinet Polish (Pint Can)						
26962				•	Aligning Tool Cabinet Polish (Pint Can) Furniture Touch-Up Kit						
28303				•	Headphone Package Assembly						

