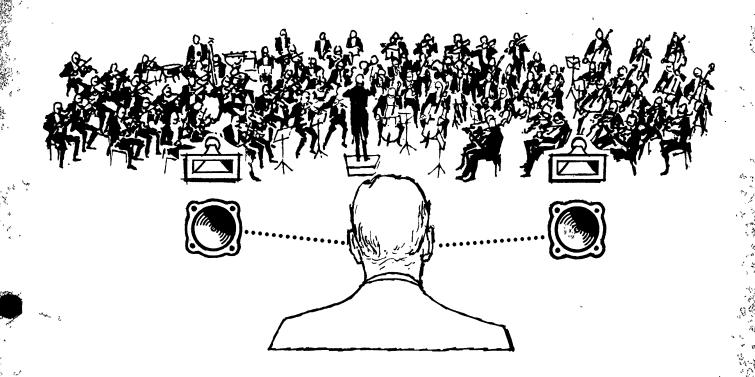
SERVICE MANUAL Indexed





1961 HIGH FIDELITY & STEREOPHONIC MODELS

DICKENS AVENUE

CHICAGO 39, ILLINOI

PRICE 60 CENT

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FEATURES OF "F" SERIES HIGH

CABINET

CHASSIS

MODEL NO.	STYLE	MATERIAL	Finish	COLOR	MODEL	ТУРЕ	EIA POWER OUTPUT	PRESENCE CONTROL	TAPE INPUT	STEREO TAPE INPUT	SIZE (IN.)
FT11	DR	OP-IN	r u n e r		7F20	AM-FM Tuner		No	No	No	
									S'	TEREO PHO	ONO and RADIO
DPS30F	Table (w/handle)	₩,ooq	Leatherette	Mallard Green &	Waters-	2 Tube		No	No	No	(2) 4
FPS45B	(lift lid) Table (w/handle) (lift lid)	W'ood	Leatherette	White Wedgewood Blue & White	Conley Waters- Conley	Phono only 2 Tube Phono only		No	No	No	(2) 4x6
FPS50	Portable (w/handle) (lift lid)	Durastron	Textured	Brown & White				No	No	No	(2) 6
FPS80	Portable (w/handle) (lift lid)	Durastron	Textured	Charcoal & Light Gray				No	No	No	8 5 1/4
DRS89C	Table (w/handle)	W'ood	Leatherette	Charcoal & Ivory	Waters- Conley	3 Tube Re- mote Spkr.		No	No	No	4 6
SFD660C	Table (w/handle) (lift lid)	Wood	Leatherette	Charcoal & Ivory	5D20	Phono - AM		No	No	No	(2) E/S 7 1/2
SFF2500W	Console (lift lid)	W'ood	Grained	Walnut	4D20	Phono only	8.5W	No	No	No	(2) 5 1/4 10
SFF2500R	Console (lift lid)	Wood	Grained	Mahogany	4D20	Phono only	8.5W	No	No	No	(2) 5 1/4 10
SFF2500E	Console (lift lid)	Wood	Grained	Oak	4D20	Phono only	8.5W	No	No	No	(2) 5 1/4 10
*SFF2501WT	Console (lift lid)	Wood	Grained	W'alnut	4F20	Phono only	8.5W	No	No	No	(2) 4x6 (2) 10
*SFF2501RT	Console (lift lid)	Wood	Grained	Mahogany	4F20	Phono only	8.5W	No	No	No	(2) 4x6 (2) 10
*SFF2501HT	Console (lift lid)	W'ood	Grained	Cherry	4F20	Phono only	8.5W	No	No	No	(2) 4x6 (2) 10
*SFF2501ET	Console (lift lid)	W'ood	Grained	Oak	4F20	Phono only	8.5W	No	No	No	(2) 4x6 (2) 10
SFF2601	Identic	al to SFF250	1W'T except in	cludes FT11	Drop-In Tuner						
SFF2601R	Identic	al to SFF250	1RT except in	cludes FT11	Drop-In Tuner						
SFF2601H	Identic	al to SFF250	1HT except in	cludes FT11	Drop≠In Tuner						
SFF2601E	Identic	al to SFF250	1ET except in	cludes FT11	Drop-In Tuner						
*SFF2503WT	Console (lift lid)	W ood	Grained	Walnut	5 F 29	Phono only	10W	No	No	No	(2) 5 1/4 (2) 10
*SFF2503RT	Console (lift lid)	W ood	Grained	Mahogany	5F29	Phono only	10W	No	No	No	(2) 5 1/4 (2) 10
*SFF2503ET	Console (lift lid)	Wood	Grained	Oak	5 F 29	Phono only	10W	No	No	No	(2) 5 1/4 (2) 10

FIDELITY AND STEREOPHONIC MODELS

SPEAKER

RECORD CHANGER

MAGNET (Wt. Oz.)	PART NO.	ТҮРЕ	MOUNTING	CARTRIDGE	STYLUS	CONTROL PANEL	INDICATO	R TYPE OF INDENTIFICATIO	REMOTE ON SPEAKEI	RADIAL R SOUND SPEAKER
						Die-Cast Escutcheon	Yes	ZENITH Crest		
PHONO COM	BINATIONS								r.	
.68	WC13969 WC11792	Manual Player	Shelf	142-101	Sapphire Sapphire	Hot Stamped	i No	ZENITH Stereo-	Self con-	None
.68		169-137	Shelf	142-113	• •	Hot Stamped	i No	ZENITH Stereo- phonic Crest	Self con- tained	None
					Sapphire Sapphire					
					Sapphire Sapphire					
.68 2.15						Metal Strip	Yes	ZENITH Super Stereophonic Crest		
3.16	S-23829 49-849	169-126	Shelf	142-102	Sapphire Sapphire	Hot Stamped on Cabt.	l Yes	ZENITH Stereo- phonic High Fidelity Crest	DRS89C	None
1.47 3.16	49-915 49-914	169-127	Shelf	142-103	Sapphire Sapphire		No	ZENITH Stereo- phonic High Fidelity Crest	Not re- quired	None
1.47 3.16	49-915 49-914	169-127	Shelf	142-103	Sapphire Sapphire		No	ZENITH Stereo- phonic High Fidelity Crest	Not re- quired	None
1.47 3.16	49-915 49-914	169-127	Shelf	142-103	Sapphire Sapphire		No	ZENITH Stereo- phonic High Fidelity Crest	Not re- quired	None
1.47 3.16	49-923 49-924	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60, FR100, FR101, FR102, FR103
1.47 3.16	49-923 49-924	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60,FR100, FR101,FR102 FR103
1.47 3.16	49-923 49-924	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60,FR100, FR101,FR102 FR103
1.47 3.16	49-923 49-924	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60,FR100, FR101,FR102 FR103
1.0 6.8	49-896 49-916	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60,FR100, FR101,FR102 FR103
1.0 6.8	49-896 49-916	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60,FR100, FR101,FR102 FR103
1.0 6.8	49-896 49-916	169-133	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not re- quired	DR60,FR100, FR101,FR102 FR103

FEATURES OF "F" SERIES HIGH

CABINET

CHASSIS

MODEL NO.	STYLE	MATERIAI	FINISH	COLOR	MODEL	ТҮРЕ	EIA POWER OUTPUT	PRESENCE CONTROL	TAPE INPUT	STEREO TAPE INPUT	SIZE INCHES
SFF2603W	Identica	l to SFF2503	WT except inc	ludes FT11	Drop-In Tuner						
SFF2603R	I dentica	l to SFF2503	RT except inc	ludes FT11 I	Orop-In Tuner						
SFF2603E	Identica	l to SFF2503	ET except inc	ludes FT11 I	Orop-In Tuner						
*SFF2505WT	Console (lift lid)	Wood	Grained	W alnut	5 F 29	Phono only	10W	No	No	No	(2) 5 (2) 12
*SFF2505RT	Console (lift lid)	Wood	Grained	Mahogany	5 F29	Phono only	10W	No	No	No	(2) 5 (2) 12
*SFF2505ET	Console (lift lid)	Wood	Grained	Oak	5F29	Phono only	10W	No	No	No	(2) 5 (2) 12
SFF2605W	Identica	al to SFF2505	WT except inc	ludes FT11	Drop-In Tuner						
SFF2605R	Identica	ıl to SFF2505	RT except inc	ludes FT11 l	Drop-In Tuner						
SFF2605E	Identica	al to SFF2505	ET except inc	ludes FT11	Drop-In Tuner						
SFF2606W	Console (lift lid)	Wood	Grained	Walnut	5 F 29	Phono & Drop-In Tuner		No	No	No	
SFF2606R	Console (lift lid)	Wood	Grained	Mahogany	5 F29	Phono & Drop-In Tuner		No	No	No	
SFF2607M	Console	Wood	W'ood	Maple	5 F2 9	Phono & Drop-In Tuner		No	No	No	
*SFF2515WT	Console (lift lid)	Wood	Grained	Walnut	2F30 7F30 3F21	Phono only	40W	Yes	Yes	Yes	(2) 5 1/4 (2) 12
*SFF2515RT	Console (lift lid)	Wood	Grained	Mahogany	2F30 7F30 3F21	Phono only	40W	Yes	Yes	Yes	(2) 5 1/4 (2) 12
*SFF2515ET	Console (lift lid)	Wood	Grained	Oak	2F30 7F30 3F21	Phono only	40W	Yes	Yes	Yes	(2) 5 1/4 (2) 12
SFF2615W	Identica	al to SFF251	5WT except in	cludes FT11	Drop-In Tuner		•				
SFF2615R	Identica	al to SFF251	5RT except inc	ludes FT11	Drop-In Tuner						
SFF2615E	Identica	al to SFF251	5ET except inc	cludes FT11	Drop-In Tuner						
SFF2535R	Console (lift lid) (casters)	Wood	W'ood	Mahogany	9F26 3F32	Phono - AM-FM	10W	Yes	Yes	Yes	(2) 5 (2) 12
SFF2535M	Console (lift lid) (casters)	Wood	W'ood	Maple	9F26 3F32	Phono- AM-FM	10W	Yes	Yes	Yes	(2) 5 (2) 12
SFF2560W	Console (lift lid)	Wood	Wood	Walnut	9F24 7F33 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) 3 1/2 (2) 5 1/4 (2) 12
SFF2560Y	Console (lift lid)	Wood	Paint	Ebony	9F24 7F33 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) 3 1/2 (2) 5 1/4 (2) 12

FIDELITY AND STEREOPHONIC MODELS

SPEAKER

RECORD CHANGER

I	MAGNET (Wt. Oz.)	PART NO.	түре	MOUNTING	CARTRIDGE	STYLUS	CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION	REMOTE SPEAKER	RADIAL SOUND SPEAKER
	1.47 6.8	49-856. 49-852	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extended Stereophonic High Fidelity Crest	Not required	DR60,FR100, FR101,FR102 FR103
	1.47 5.8	49-856 49-852	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not required	DR60,FR100 FR101,FR102 FR103
	1.47 6.8	49-856 49-852	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not required	DR60,FR100, FR101,FR102 FR103
		40.056		٠							
		49-856 49-852									
		49-856 49-852									
		49-856 49-852									
	1.0 13.0	49-896 49-903	169-135	Shelf	142-110	Diamond Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest Reverbera- tion	Not required	DR60, FR100, FR101, FR102 FR103
		49-896 49-903	169-135	Shelf	142-110	Diamond Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest Rever- beration	Not required	DR60,FR100, FR101,FR102 FR103
		49-896 49-903	169-135	Shelf	142-110	Diamond Sapphire		No	ZENITH Extend- ed Stereophonic High Fidelity Crest Rever- beration	Not required	DR60,FR100, FR101,FR102 FR103
		19-856 19-852	169-134	Shelf	142-108	Sapphire Sapphire	Die-Cast Escutcheon	Yes	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not required	DR60,FR100, FR101,FR102 FR103
		9-856 9-852	169-134	Shelf	142-108	Sapphire Sapphire	Die-Cast Escutcheon	Yes	ZENITH Extend- ed Stereophonic High Fidelity Crest	Not required	DR60,FR100, FR101,FR102 FR103
	1.0 4	9-782 9-896 9-903	169-132	Shelf	142-110	Diamond Sapphire	Die-Cast Escutcheon			required	DR60,FR100, FR101,FR102 FR103
	1.0 4	9-782 9-896 9-903	169-132	Shelf		Diamond Sapphire	Die-Cast Escutcheon			required	DR60,FR100, FR101,FR102 FR103
						5 7					

FEATURES OF "F" SERIES HIGH

CABINET

CHASSIS

MODEL NO.	STYLE	MATERIAL	, finish	COLOR	MODEL	ТҮРЕ	EIA POWER OUTPUT	PRESENCE CONTROL	TAPE INPUT	STEREO TAPE INPUT	SIZE INCHES
SFF2570W	Console (doors)	Wood	Wood	Walnut	9F25 7F31 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
SFF2570Y	Console (doors)	Wood	Paint	Ebony	9F25 7F31 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
SFF2570E	Console (doors)	V ood	Wood	Oak	9F25 7F31 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
SFF2575L	Console (doors)	₩ood	Wood	Tuscany Walnut	9F25 7F31 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
SFF2580M	Console (doors) (casters)	Wood	Wood	Maple	9F25 7F31 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
SFF2582R	Console (doors) (casters)	Wood	Wood	Mahogany	9F25 7F21 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
SFF2585H	Console (doors)	Wood	W'ood	Cherry	9F25 7F31 3F21	Phono - AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
											T. V R A D I O
F2786W	Console (lift lid)	Grained	W'ood	Walnut	16F23 4F20 FT11	TV-Phono AM-FM	8.5W	No	No	No	(2) 3 1/2 (2) 10
F2786R	Console (lift lid)	Grained	W'ood	Mahogany	(7F20) 16F23 4F20 FT11 (7F20)	TV-Phono AM-FM	8.5W	No	No	No	(2) 3 1/2 (2) 10
F2786E	Console (lift lid)	Grained	Wood	Oak	16F23 4F20 FT11	TV-Phono	8.5W	No	No	No	(2) 3 1/2 (2) 10
F3388W	Console (lift lid)	Wood	Wood	Walnut	(7F20) 16F23Q 5F29 FT11 (7F20)	TV-Phono AM-FM	10W	No	No	No	(2) 5 1/4 (2) 12
F4000W	Console (doors) (lift lid)	Wood	W'ood	Walnut	16F24Q 7F32 9F27 3F21	TV-Phono AM-FM	40W	Yes	Yes	Yes	(2) Horn (2) 12
	(casters)										RADIAL
DR60J	Table	Plastic	Plastic	Cordovan Brown							6x9
FR100H	Table	₩ ood	Grained	Cherry							6x9
FR100L	Table	W ood	Leatheret	te Manhattan Tan Colony							6x9
FR101H	Table	₩ ood	Grained	Cherry							7 1/2
FR101L	Table	W ood	Leatheret	te Br. Mahog- any Cowhide							7 1/2
FR102H	Table	₩ ood	Grained	Cherry							3 1/2 6x9
FR102L	Table	Wood	Leatheret	te Manhattan Tan Colony							3 1/2 6x9
FR103Y	Table	W ood	Paint	Ebony							2 5 1/4
FR105H	Table	Wood	Wood	Cherry							Horn 6x9
FR105L	Table	Wood	Leather	Antique		8					Horn 3x9

FIDELITY AND STEREOPHONIC MODELS

SPEAKER

RECORD CHANGER

_	MAGNET (Wt. Oz.)	PART NO.	TYPE	MOUNTING	CARTRIDGE	STYLUS	CONTROL PANEL	INDICATOR LIGHT	TYPE OF INDENTIFICATION	REMOTE SPEAKER	RADIAL SOUND SPEAKER
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yes	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yes	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yes	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yes	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yes	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yes	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
	4.28 13.0	49-867 49-903	169-132	Pan	142-110		Die-Cast Escutcheon	Yés	ZENITH Extended Stereophonic High Fidelity Crest Reverberation	Not required	FR105
- P H O	но сомв	SINATION	ı s								
	.85 3.16	49-846 49-914	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extended Stereophonic High Fidelity Crest	Not required	DR60, FR100, FR101, FR102 FR103
	.85 3.16	49-846 49-914	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extended Stereophonic High Fidelity Crest	Not required	DR60, FR100, FR101, FR102 FR103
	.85 3.16	49-846 49-914	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extended Stereophonic High Fidelity Crest	Not required	DR60,FR100, FR101,FR102 FR103
	1.0 6.8	49-852 49-856	169-131	Shelf	142-108	Sapphire Sapphire		No	ZENITH Extended Stereophonic High Fidelity Crest SPACE COMMAND "400"	Not required	DR60,FR100, FR101,FR102 FR103
	4.28 32.0	49-867 49-934	169-136	Shelf	142-110	Diamond Sapphire	Die-Cast Escutcheon	Yes (Radio Phono TV)	ZENITH Stratos- phere Stereo- phonic High Fidel- ity Crest SPACE COMMAND "1000"	Not required	FR105
SPEA	KER SYS	TEMS							Reverberation		
	3.16	49-902						No	None		
	3.16	49-902						No	ZENITH Radial Scund		
	3.16	49-902						No	ZENITH Radial Sound		
	1.47	49-835						No	None		
	1.47 .85	49-835 49-782						No	None		
	3.16	49-902							ZENITH Radial Sound		
	.85 3.16	49-782 49-902							ZENITH Radial Sound		
	.45 3.16	49-938 49-937						No	None		
		49-867 49-902							ZENITH Radial Sound		
		49-867 49-902							ZENITH Radial Sound		

THE STEREO SYSTEM MODELS

SFF2515T, SFF2615, SFF2560, SFF2570, SFF2575, SFF2580, SFF2582 AND SFF2585

Zenith's extended stereo system is basically quite simple and the following information should be sufficient to explain it completely. The block diagram of the extended stereo system is applicable to all the above models. The first portion of this system is the stereo cartridge, which will supply information from the left and right elements. The information from each channel is funnelled to each half of the ganged dual automatic balance control. This automatic balance control then feeds respective portions of the L + R information to the mixer preamplifier stage. Out of the mixer preamplifier stage two types of information are obtained. L + R (sum) information is funnelled to the first audio amplifier of the sum channel. The other type information obtained from the mixer preamplifier is L - R (difference) information and, this is funnelled to the first audio amplifier of the difference channel. Signal from the first audio amplifiers is then passed on to the second audio amplifiers of each channel. At this point we now insert the Monaural-Stereo Switch which utilizes negative feed-back energy from the matrix to control the gain of the sum and difference amplifiers, when we switch from Monaural to Stereo to Extended Stereo. This controlled information from the second audio amplifiers is passed on to the sum and difference output amplifiers and then both are funnelled into the matrix which electronically separates the sum and difference information and feeds this separated information to the left and right speakers of the stereophonic speaker system.

MIXER PREAMPLIFIER CIRCUIT

At first glance a system of this type may seem highly complex; however, when clarified, one can readily see that although ingenious in conception it is rather simple. The stereophonic cartridge consists of two ceramic elements each of which supplies a voltage created by the Piezo Electric effect. This information is fed to an automatic balance control which consists of two potentiometers ganged together physically using a common shaft. The information from the left channel goes to the arm of one potentiometer and the information from the right channel goes to the arm of the other potentiometer. These potentiometers are connected to the grids of the two triode halves of a 6CG7. The arms on these potentiometers are so ganged that when the energy is increased at the grid of one triode, the energy is reduced at the grid of the other. In this manner, a satisfactory balance can be obtained. In addition to being preamplifiers, these two triodes also act as a mixer system from which we obtain sum and difference information.

LEFT PREAMPLIFIER

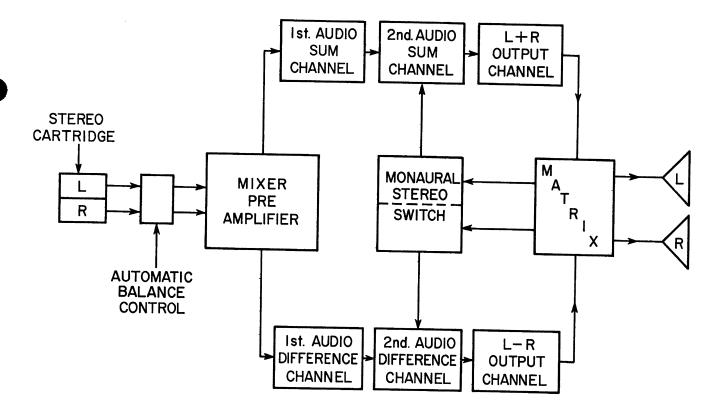
Closely examine the path of the signal in the left channel preamplifier, assuming we have a negative L signal supplied by the left cartridge; then at the plate of the left preamplifier, we will have positive L information, as a result of phase reversal within the tube. For simplification in explaining the mixing action, assume that the left preamplifier has a gain of three; then we will have a positive 3L at the plate of this left preamplifier, and this arrives at the junction of the 27K and the 220K which constitute a voltage divider for this 3L; 2L continues on through the 220K. This 2L information is fed to the junction of the .047 and 330K resistor. Back at the junction of the 27K and 220K resistors connected to the plate of the left preamplifier 1L of the 3L information flows down through the 27K resistor on through the network of the .0022 MFD, 220 MMFD, and the 15 meg resistor to the top of the right balance control.

RIGHT PREAMPLIFIER

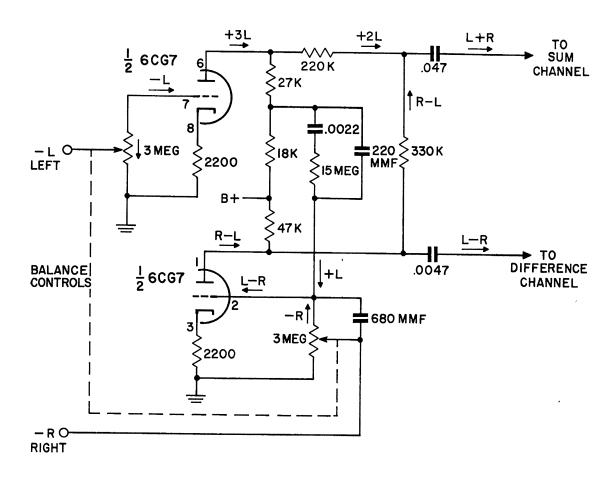
Simultaneously, with the action in the left preamplifier negative R information is supplied by the right cartridge element and this goes to the right half of the balance control. At the high side of the right balance control L information and R information mix and we have a composite L-R voltage impressed on the grid of the right preamplifier. Since this voltage information is subjected to phase reversal through the tube at the plate of the right preamplifier, we have R-L information. The R-L information is channelled into two paths. At the junction of the 330K resistor and .0047 MFD condensor some R-L information is fed to the difference channel. Also some R-L information goes up through the 330K resistor to the .047 MFD condenser at which point 2L information is already available. The two mix with their resultant being L + R and this is fed to the sum channel.

MONAURAL STEREO SWITCH

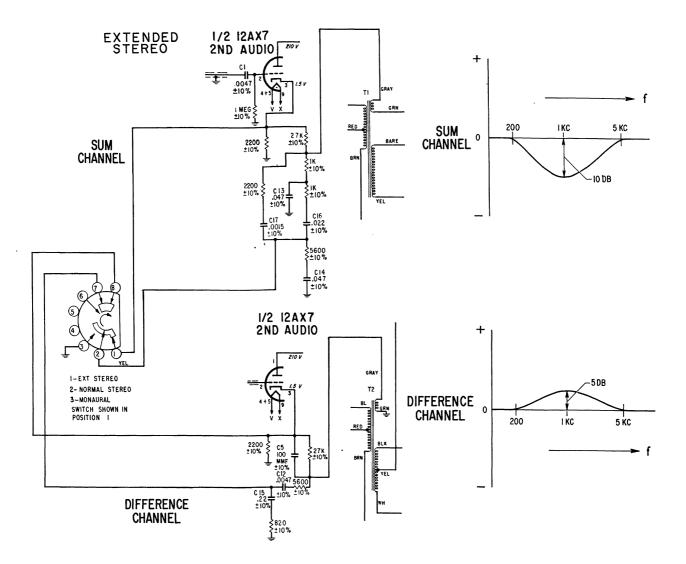
Through research it has been determined that the best extended stereo effects can be obtained by accenting a group of frequencies between 200 and 5,000 cycles with the peak being at approximately 1000 cycles. For this effect to be outstanding the output of the difference channel should be approximately 15 db greater than the sum channel. It would be most difficult to obtain 15 db gain over a narrow band of audio frequencies, on one channel However, since all things are relative and also since we really only need a 15 db difference between the sum and difference signals, we can obtain the 15 db difference by reducing the output of one channel and increasing the output of the other. This has been done and we have attenuated the sum channel by 10 db and have obtained 5 db of gain in the difference channel with a resulting relative difference of 15 db which is required. This is accomplished by regulating the amount of negative feed-back supplied to the second audio amplifier of both the sum and difference channels. With the Monaural Stereo Switch in Monaural position, the output of the 12AX7 second audio tube in the difference amplifier is grounded, thus cutting off the difference amplifier and only allowing the sum amplifier to operate as is normal



Block Diagram For Extended Stereo Equipment



Basic Mixer Preamplifier Circuit



Negative Feed Back Switching For Extended Stereo

during monaural operation. When the Monaural-Stereo Switch is in Stereo position, then both the sum amplifier and difference amplifiers operate with equal gain. When the Monaural Stereo Switch is in Extended Stereo Position, then negative feed-back voltage is supplied to the cathode circuitry of the 12AX7 second audio triodes in such a manner so the second audio sum channel is attenuated 10 db through the frequency range of 200 to 5,000 cycles and the gain of the second audio difference amplifier is raised 5 db through the frequency range of 200 to 5,000 cycles. In this manner we obtain the required 15 db difference between the two channels.

MATRIX

At this point, we must digress and explain the matrix system. Basically, the matrix consists of two output transformers. The secondary winding of the L-R transformer is center tapped. To this center tapped secondary winding, we connect the secondary winding of the L + R transformer. We now have two windings that are in series aiding or in series opposition. The three possible operating conditions of the matrix circuit, are as follows:

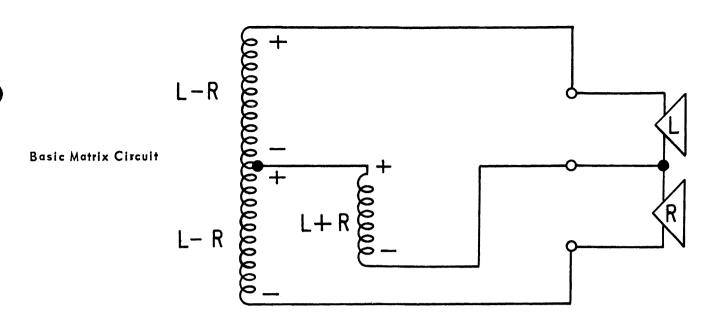
- (1) For monaural operation the L-R (difference channel) is cut off and without any L-R signal both speakers will receive only L + R signal from the matrix.
- (2) For standard stereo operation, the output of the L-R (difference channel) is equal to the L+R (sum channel) and therefore by summation of the voltages from the secondary of the output transformers, which are connected in series aiding or in series opposition, L information is channelled to the L speaker and R information is channelled to the R speaker. The summation of these voltages would be as follows:

Series Aiding -

$$(L + R) + (L - R) =$$

$$L + R + L - R$$

$$L + \mathbb{R} + L - \mathbb{R}$$
 = 2L to the left speaker



Series Opposition -

$$(L + R) - (L - R) =$$

$$L + R - L + R$$

$$L' + R - L' + R$$
 = 2R to the right speaker

(3) For extended sterec operation, the output of the L-R (difference channel) is greater than the output of the L+R (sum channel). Let us assume that we have twice the energy in the L-R channel than we have in the L+R channel. We can express this 2 (L-R).

Series Aiding -

$$(L + R) + 2 (L - R) =$$

$$L + R + 2L - 2R$$

$$L + R + 2L - 2R = 3L-R$$
 to the left speaker

Series Opposition

$$(L + R) - 2 (L - R) =$$

$$L + R - 2L + 2R =$$

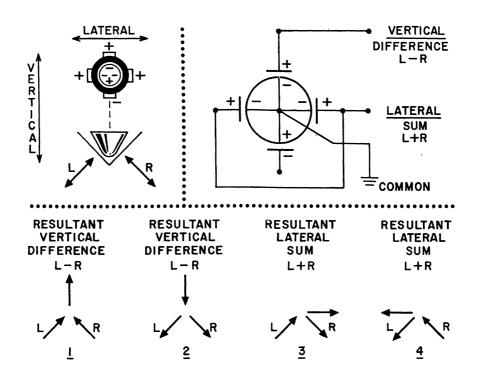
From these equations you can see in the extended stereo position, the left speaker system receives an out of phase component of right information and simultaneously the right speaker system receives an out of phase component of left information. The magnitude and of course the frequency of these out of phase components is what determines the spread of the extended stereo system.

THE STEREO SYSTEM MODELS

SFF2501T, SFF2503T, SFF2505T, SFF2601, SFF2603 SFF2605, SFF2606, SFF2607 CABINET PARTS

These models use either chassis 4F20 or 5F29, and either a 142-108 or 142-109 vertical lateral cartridge which produces sum and difference information without the aid of an electronic mixer preamplifier. Perhaps the best method in which to explain how this cartridge operates is to first explain its construction One must visualize a ceramic cylinder (tube) with silver plating on its inner surface and four longitudinal strips of silver plating spaced at 90 degrees from each other on its outer periphery. We now have a ceramic tube containing all the requisites of four piezo electric elements. Each longitudinal strip and the ceramic between it and the inner surface of the

cylinder constitute one piezo electric element. We must now polarize these individual ceramic elements so they can be utilized for our purposes. (See the left top portion of the illustration). To polarize these four ceramic elements, it is only necessary to impress a voltage from the center silver contact area to each of the outer silver contact strips. As you can see, the left, top, and right ceramic elements are polarized identically, however, the bottom ceramic element is polarized opposite to the other three elements. The equivalent circuit in the Right top portion of the illustration depicts the method in which the ceramic elements are inter-connected.



Mechanical & Electrical Diagram 142-108

The center silver surface is used as a common return for all four elements. The left element and right elements are connected in parallel to obtain a lower source impedance and thereby improve the bass response of the amplifier. All information obtained from these two ceramic elements is obtained from the lateral cut and this information can be considered sum information and, is fed to the sum channel. All difference information has been cut vertically and consequently all vertical information then obtained by this ceramic element is difference information and is fed to the difference channel.

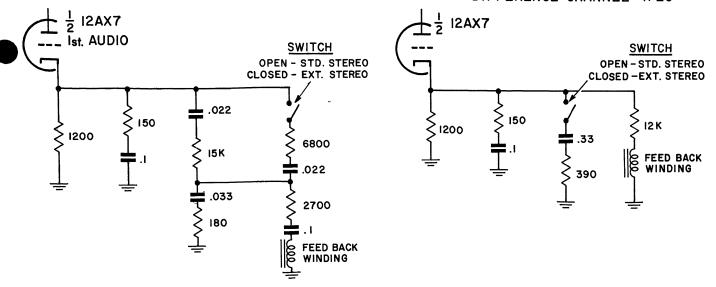
Perhaps this would be the opportune time to explain the four simplest motions of the stylus. (Refer to examples 1,2,3 and 4 at the bottom half of the illustration). If at an instant in time the stylus comes in contact with hills of equal magnitude on either side of the cutting groove, then the right force vector will be upward 45 degrees to the left and the left force vector will be upward 45 degrees to the right. The resultant motion will be vertical and up. The converse of this is true (see example 2) and would be at an instant of time when the stylus hits two valleys of equal magnitude. It is then acted upon by a downward 45 degree force to the right and a downward 45 degree force to the left, with the resultant motion being vertical in a downward direction. Since all L-R (difference) information has previously been recorded vertically, then the corresponding motion of the pickup stylus will deliver difference information. The other two simplest examples are when the left record groove has a hill and the right record groove has a valley of equal magnitude.

This will create lateral motion (or L+R sum information) to the right. (See example 3) The converse of this is true when the right groove has a hill and

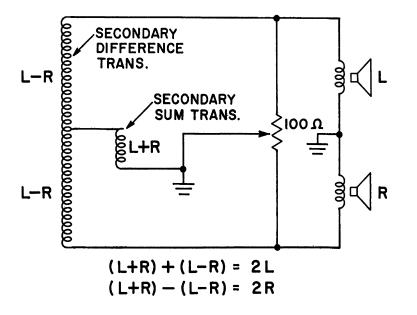
the left groove has a valley of the same magnitude (See example 4) The resultant will be lateral motion (L + R sum information) to the left. Since in the original recording all sum information was recorded laterally then all lateral motion obtained by the pickup stylus will be L + R (sum) information.

From here on the operation of chassis 4F20 and 5F29 is quite similar to the previous group that has been already explained. The two circuits indicate how the inverse feed-back voltage is changed on the first audio amplifier of both the sum and difference channels to control the gain of these amplifiers and obtain, in this case, a relative difference in amplitude between the sum and difference amplifiers of approximately 12 db. Again, during monaural operation, the input of the 6BQ5 difference power amplifier is grounded and the difference channel is no longer in operation.

Since the cartridge output on these two chassis is sum and difference information and also since we do not have a balance control feeding a mixer preamplifier, it is necessary to devise a method by which we can balance the speaker outputs (i.e. control for any slight differences in cartridge output voltage). To accomplish speaker balance, a 100 ohm 1 watt balance control is placed across the output of the white-orange winding of T2. (See 4F20 schematic) The center of this control is grounded. In this manner rotating the balance control will enable you to shift the speaker output and obtain proper speaker balance. The best method to balance the speaker system is to play a monaural record, place the stereo monaural switch in the stereo position, and adjust the balance control (located at the back of the cabinet) until the sound appears to come from a point midway between the two speaker systems.



Switching Circuits For Stereo-Extended Stereo Chassis 4F20



Balance Control Circuit For Chassis 4F20

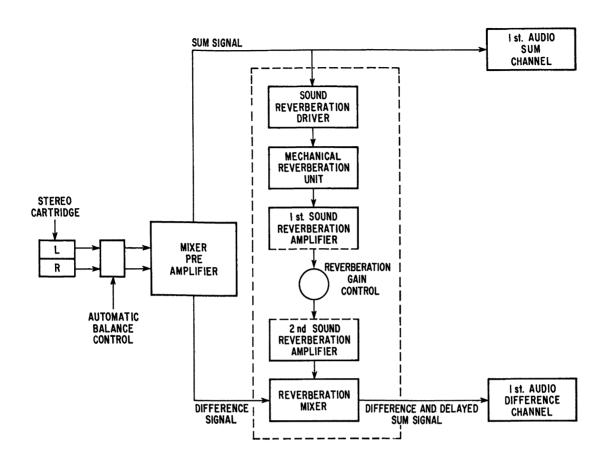
SOUND REVERBERATION

The Electro-Mechanical Sound Reverberation System will enable you to adventure into a whole new area of tonal accents and echo spatial effects so necessary for concert hall realism. When the Sound Reverberation System is not in operation, the extended stereo system will operate in the normal manner. Therefore, its operation can be explained in detail separately from the extended stereo system.

It functions in the following manner;

A portion of the sum signal coming from the 6CG7 mixer preamplifier and going to the first audio sum channel is taken off and fed to a sound reverberation

driver. This tube in turn drives a reverberation unit which consists of two transducers and two spring-like delay lines. The input (driver) transducer creates mechanical rotation of the springs from a voltage impressed on its field coil. The output (pickup) transducer must be more sensitive than the input transducer since its function is to pick up minute rotational motions that are passed on down the spring. Each of the transducers consist of a field coil, laminated metal strips as in a motor or transformer to guide and form the magnetic field, and two ceramic magnets which support the delay springs and act as motor armatures. We use two delay springs so the reverberation (echo) effects can be



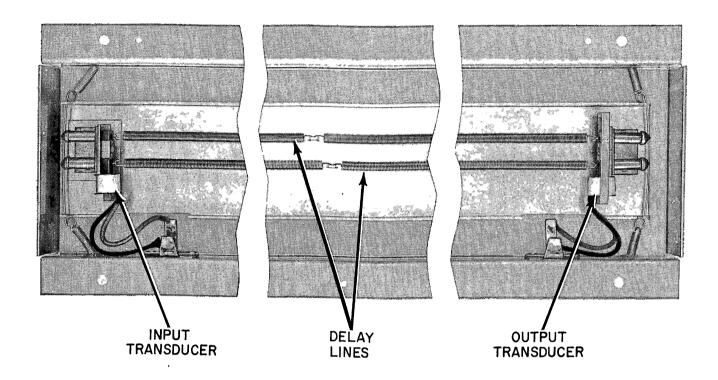
Block Diagram For Sound Reverberation System

smoothed out rather than being abrupt as would be the case if only one spring were used. The remainder of the reverberation unit consists of an outer case for mounting and protection purposes and an inner mounting channel suspended on springs to prevent external vibrations from affecting the operation of the reverberation system. The input (driver) transducer has an impedance of 1525 ohms at 1000 cycles per second with a DC resistance of 180 ohms. The output (pickup) transducer has an impedance of 2250 ohms at 1000 cycles with a DC resistance of 180 ohms. The frequency response of the system is from 30 to 5,000 cycles per second. The decay (reverberation) time from original signal strength to 60 db. down is approximately 2 seconds at 200 cycles per second. The delay time or travel time for a pulse from one end to the other in the long spring is 37 milliseconds and in the short spring, 29 milliseconds.

For the sake of simplicity, we shall explain the method in which time delay is created when using a single pulse and will then compare it to echo development in a large hall.

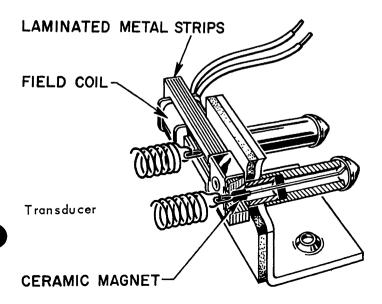
The output from the reverberation driver is fed to the coil of the input (driver) transducer. The electromagnetic field set up in the coil and laminations

acts on the magnetic field of the ceramic magnets which can be considered motor armatures, to create rotational motion in the springs. This movement travels down the spring to the output (pickup) transducer and upon arriving here 37 milliseconds later, the spring in motion causes the ceramic magnet to be rotated. Movement of this ceramic magnet within the laminations of the output (pickup) transducer, creates a voltage in the output coil and this voltage is then passed on to the first reverberation amplifier. At the instant the pulse arrives at the ceramic magnet of the output (pickup) transducer, a portion of it is reflected back down the spring and travels to the other end. When it arrives at the input (driver) transducer, it is reflected back towards the output (pickup) transducer and when it again arrives there some 74 milliseconds later it, too, will create electrical energy by rotating the ceramic magnet. The information is also passed on to the first reverberation amplifier. At this point, it would be interesting to explain normal echo development in a big hall. Assume a single sound of generous magnitude is created at one end of a hall ... the fundamental portion of this sound comes directly to to your ears. Part of the original sound bounces off one of the walls or the ceiling of this hall, and then arrives at your ears. This reflected sound is delayed



Mechanical Reverberation Unit

in time by the additional distance it had to travel. At the same time that this occurs, there are many other sounds coming to your ears from the many other reflecting surfaces of the room ... the farther the sound has to travel the more the delay. We reproduce these same time delay conditions mechanically with the spring-like delay lines of the reverberation unit. The original or fundamental signal arriving at your ears is the sum signal that goes right on through the final sum amplifier. The first delayed signal (echo) you will hear is the first delayed signal arriving at the output (pickup) transducer (with 37 milliseconds delay). The second



delayed signal (echo) will be 74 milliseconds later than the first, etc. These reflections continue up and down the spring and contribute to the (echo) effect until their strength has been reduced by 60 db.

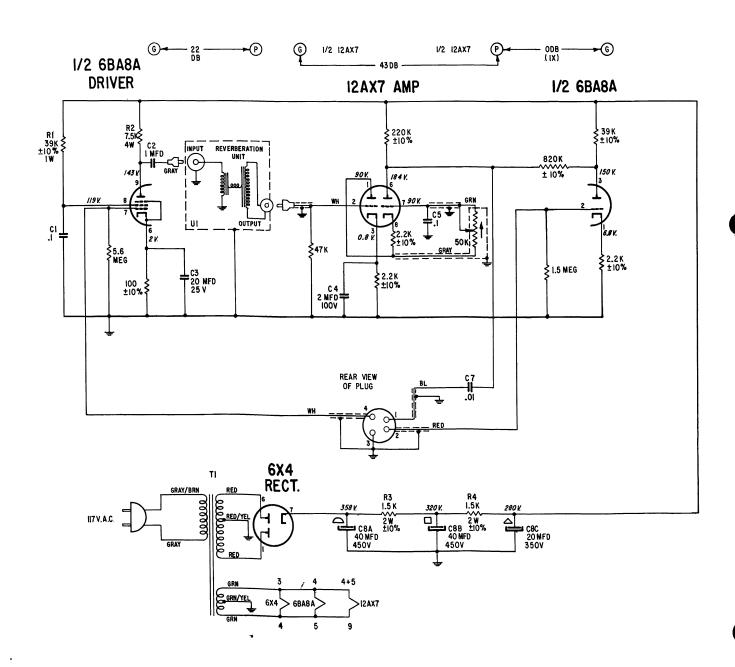
As a result of the attenuation in the mechanical reverberation unit, its output must be once again amplified and this is done in the 1st sound reverberation amplifier. Since more gain is required than that which can be obtained from one amplifier, there is a 2nd sound reverberation amplifier and, a reverberation gain control for this 2nd amplifier. Turning the reverberation gain control, located on the front panel, fully clockwise will give maximum sound reverberand turning it fully counter-clockwise will reduce the sound reverberation to zero. After passing through the second sound reverberation amplifier, the delayed sum signal is then fed to the grid of the reverberation mixer. The difference information from the 6CG7 mixer preamplifier is fed to the cathode of this same reverberation mixer. Here the two signals are combined and fed out to the first audio difference channel. The sound reverberation system will function normally with stereo records. an AM-FM tuner, or monaural records. However, in the latter two cases it will be necessary to move the monaural-stereo switch to either stereo or extended stereo position to obtain the reverberation effects. This is necessary since the reverberation system requires that both sum and difference amplifier systems be operating.

FV20 SOUND REVERBERATION KIT

FOR MODELS SFF2501T, SFF2601, SFF2503T, SFF2603, SFF2505T, SFF2605, SFF2606, SFF2607 AND SFF2535

The FV20 sound reverberation system using chassis 3F22 operates in much the same manner as the reverberation system used with the 40 watt amplifiers. However, since the input to the 6BA8A driver is actually a portion of the output of the sum section of the cartridge, we are forced to use a higher gain pentode type driver. The reverberation unit is identical to that used in the 40 watt instruments. After the sum signal has been delayed and of course attenuated in the reverberation unit, we again need

high gain with as little tube noise as possible, therefore, we have used the two triodes of the 12AX7 as a cascode amplifier. The difference signal from the cartridge is fed to the grid of the 6BA8A triode which acts as an amplifier and impedance matching device. Its output goes through the 820 K voltage divider to mix with the delayed sum signal from the plate of the second 12AX7 triode. This mixed difference and delayed sum information is then passed on in the normal manner to the difference amplifier.



3F22 Schematic

RADIAL SOUND SYSTEM

Should you have a room that will accommodate a larger speaker system and wish to improve the stereophonic reproduction, Zenith engineers have created a supplemental sound system that can be used in conjunction with these stereophonic instruments.

This equipment is the Zenith Radial Sound System, and its operation is based on the acoustical phenomena that all frequencies below 300 cycles are non-directional and that all directional properties of sound which contribute to the stereophonic spatial effect result from frequencies above 300 cycles and/or harmonics of the 300 cycles or lower frequencies that are greater than 300 cycles. As a result, all bass frequencies (300 cycles or lower) will be reproduced in the main chassis with all other frequencies coming from the two Radial Speakers.

Perhaps a review of the manner in which our ears operate as a direction finding device will be appropriate at this time. One's ability to determine direction depends entirely on the fact, that there are two ears situated on the opposite sides of the head. It is indeed fortunate that they are so located for their task.

Time Difference

A typical example of their ability to determine direction would be as you are walking towards some friend that may be somewhat to the right of you and he shouts, your head will immediately turn to the right. Since sound travels approximately 1100 feet per second and your ears are perhaps 6 inches apart, consequently your right ear may have heard the shout 1/2000 of a second sooner than your left ear. This is only four hundred and fifty millionths of a second or 450 micro-seconds, but it will supply plenty of information with which your direction finding mechanism can work. Normal human ears can detect time differences as small as 6 micro-seconds. As we all know, our intricate mental computers read the amounts and type of delay and tell us almost instantly the direction of the sound source.

PHASE

Phase Discrimination

Another important characteristic of sound is its wavelength. Sound travels approximately 1100 feet per second. Assume we have a thousand cycle frequency, we therefore have one thousand compressions and decompressions per second. Then the distance in air between two compressions must be just a little more than 1 foot. This is the wavelength of a thousand cycle frequency. Plainly the wavelength

varies inversely with frequency. A frequency of 100 cycles per second has a wavelength of 11 feet. A frequency of 300 cycles per second has a wavelength of 3.66 feet. Since the wavelength of frequencies 300 cycles or lower is 3.66 feet and greater, then the difference in air compression or rarefaction at the two ears separated by only inches will be infinitestimal compared to the change over a full cycle. This method of locating sounds is phase discrimination. It is ineffective at frequencies below 300 cycles and very effective between 300 to approximately 1600 cycles per second.

Intensity

Somewhat below the upper limit of 1600 cycles per second another characteristic of sound begins to furnish information. Sound will normally flow around an object when the object is much smaller than the wavelength of the sound, however, when the wavelength of the sound approaches or becomes smaller than the object, then the side of the object away from the sound is in shadow and the intensity becomes less at the far side. The ear on the side of the head away from the sound source is in shadow and receives the sound less intensely.

Our ears do not use these various facilities singly but simultaneously. The fact that both Time Difference and Phase Discrimination both fail with continouus low frequency sound is the basis on which the Radial Sound System functions.

Now that some of the various factors upon which Zenith's Radial Sound is based have been explained, we shall compare a dual channel full stereophonic amplifier to a similar model equipped with the Radial Sound System. On the model SFF2505, each audio display system will be equipped with a 12 inch woofer and a 5 inch tweeter. However, each channel will in addition have a special socket to accept a Radial Sound System.

The customer will purchase the SFF2505 without the Radial Sound System, and will use it as a standard stereophonic instrument. Then if he wishes to convert to the Radial Sound System, he can purchase the two supplementary speaker systems and connect them to the sockets provided on the SFF2505. When they are connected, the tweeter speakers in the master or bass unit SFF2505 are disconnected, and the filtering in the supplementary speaker system will only feed frequencies 300 cycles or lower to the woofer speakers in the SFF2505.

All frequencies above 300 cycles and all harmonics of the 300 cycle or lower frequencies that are greater than 300 cycles are funnelled to the new supplementary speakers. A system of this type will greatly enhance the stereophonic effect and will eliminate the need for the usual small area center listening position.

GENERAL

Automatic Frequency Control AFC

Some of these receivers feature an automatic frequency control which automatically keeps your receiver on the exact station frequency when you are tuned to an FM station. To utilize this feature tune the receiver as instructed and then turn the band switch to AFC position.

When the desired FM station is a weak station, adjacent in frequency to a strong station, the AFC may pull the tuning into the stronger station. Under these conditions, place the bandswitch in FM position and tune the receiver as instructed.

Tuning the receivers on the frequency modulation band will require more care than on the broadcast band. A hissing sound may be noted when tuning between Frequency Modulation stations. This is normal, and will disappear as the station is tuned in. After a station is located, the pointer should be moved back and forth over it until the point of quietest reception and best tone quality is found. Correct tuning is indicated by the disappearance of background noise.

AM and FM Alignment

The AM and FM IF transformers in these receivers are of the new permeability tuned type. The advantage of an IF transformer of this type is its extreme stability under various humidity and temperature conditions. The upper coil is the secondary and the lower the primary. When adjusting these IF transformers the tuning wrench 68-26 can be inserted into the top slug, rotated until maximum output is obtained and then dropped down to the lower slug and the same operation repeated. The tuning wrench is so designed that turning one slug does not effect the adjustment of the other.

FM IF Alignment

Because of the wide band pass, it is desirable to use a FM signal generator and a cathode ray oscilloscope when aligning the FM IF channel. The instruction book for the Zenith Model 800 Signal Generator (Form Z8001) covers complete FM alignment procedure. If visual alignment equipment is unavailable reasonably accurate alignment can be made by following the procedure outlined below.

FM Discriminator Alignment

When the secondary of the discriminator is aligned use sufficient signal input to get a good positive and negative indication before setting the slug for zero reading. A center zero indicating meter is re-

commended for this adjustment, but is not absolutely necessary. Reversing the leads of a non-zero center meter, or observing closely when the meter starts to go to the left (negative) of zero will give the same results.

FM RF Alignment

The tuning slugs are attached to threaded shafts and the slugs are varied in the field of the coils by turning the shafts clockwise or counterclockwise. After adjustment the shafts must be secured with a drop of speaker cement.

IMPORTANT

Alignment of this chassis will in most cases by unnecessary unless an IF or RF transformer is replaced or the adjustments have been tampered with.

Correct alignment can only be made by using the following procedure:

A vacuum tube voltmeter with an isolation resistor of 2,000,000 ohms in series with the hot lead will serve for FM adjustments. This lead should be shielded.

An AC output meter connected across the primary or secondary of the output transformer will be satisfactory for all AM adjustments.

The signal generator output should be kept just high enough to get an indication on the meter.

- (a) Vacuum Tube Voltmeter Lug 7 on discriminator transformer to chassis (half discriminator load).
- (b) Vacuum Tube Voltmeter Lug 5 on discriminator transformer to chassis (full discriminator load).
- (c) Vacuum Tube Voltmeter from limiter grid to chassis.
- (d) Loosen slugs by applying a hot iron to the cement.

Automatic Balance Control

To obtain equal audio output from each channel adjust the automatic balance control in the following manner:

1. Move the Monaural-Stereo Switch to stereo position.

- 2. Play a monophonic record.
- 3. Adjust the automatic balance control so the sound appears to come from a point midway between the two speakers.

6BQ5 Balance Control

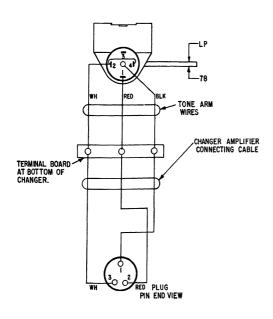
On some chassis if one or both of the 6BQ5 output tubes in each final audio amplifier are replaced, it will be necessary to connect a DC volt meter across the balance terminals and adjust the balance control for minimum voltage.

Speaker Phasing

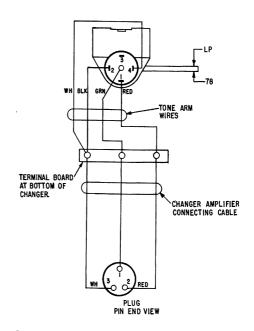
It is most important that coded speaker leads be connected to coded terminals on speakers for proper

polarity within each speaker group. It is also then most important that the speaker groups be in phase with each other. One excellent method to determine if the speaker groups are in phase is to play a monaural record as described under Automatic Balance Control.

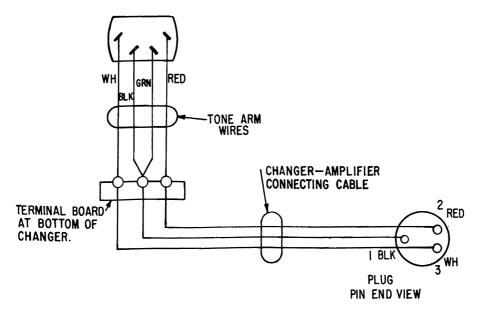
Under these conditions the sound should appear to come from a point midway between the two speaker groups. If the sound comes from any other point than midpoint, then one speaker group is out of phase with the other and you should check polarity. One of the easiest methods of checking polarity within the speaker group is to momentarily place a 4½ volt battery across the speaker feed terminals. All the speaker cones should simultaneously move in the same direction.



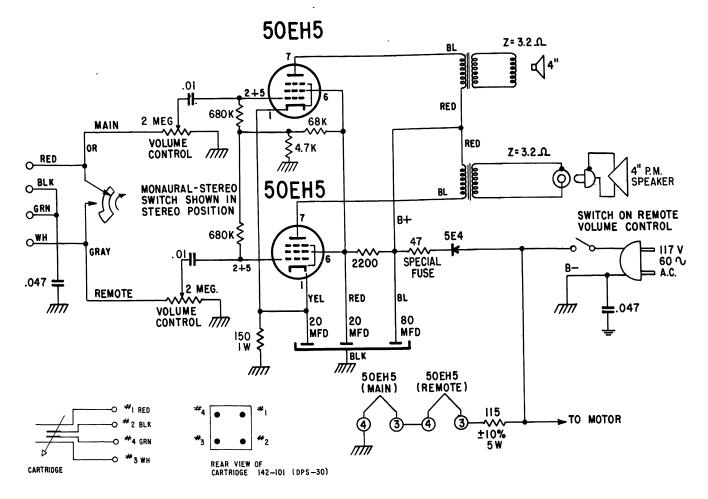
142-108,-109 Cartridge Connections Rear View Initial Production



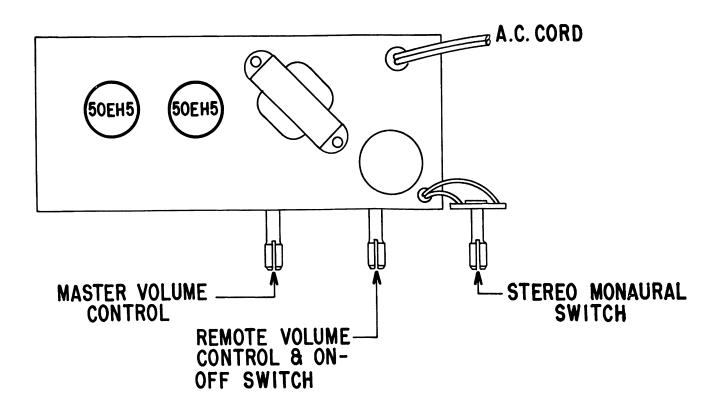
142-108,-109 Cartridge Connections
Rear View Later Production



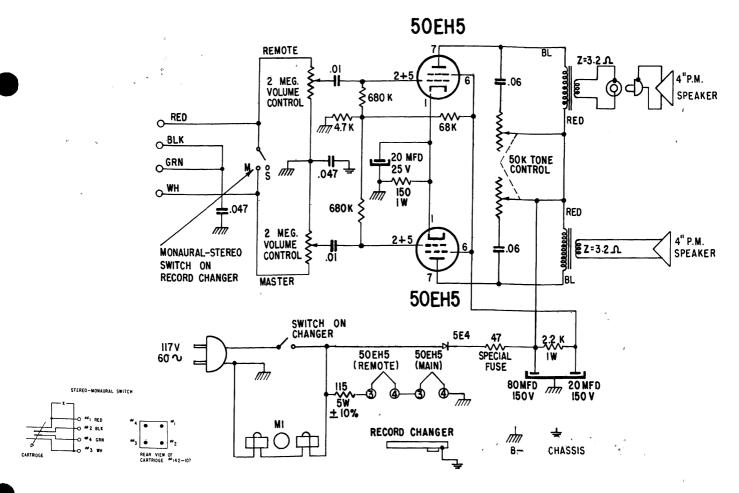
142-110,-111 Cartridge Connections Rear View



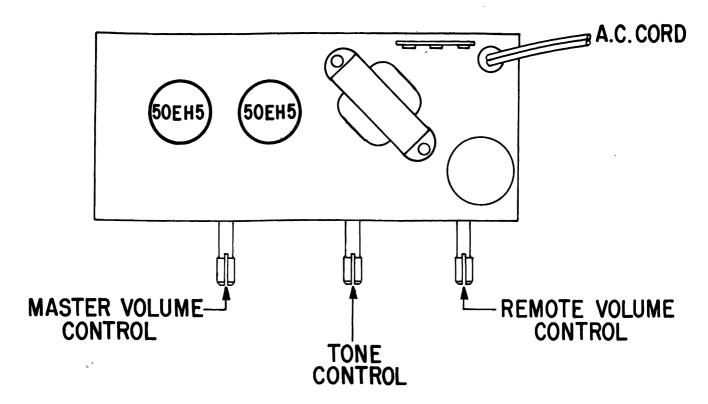
FPS30 Schematic



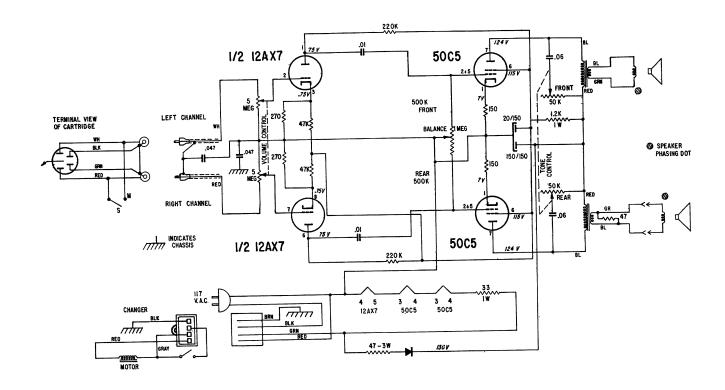
FPS30 Tube & Control Layout



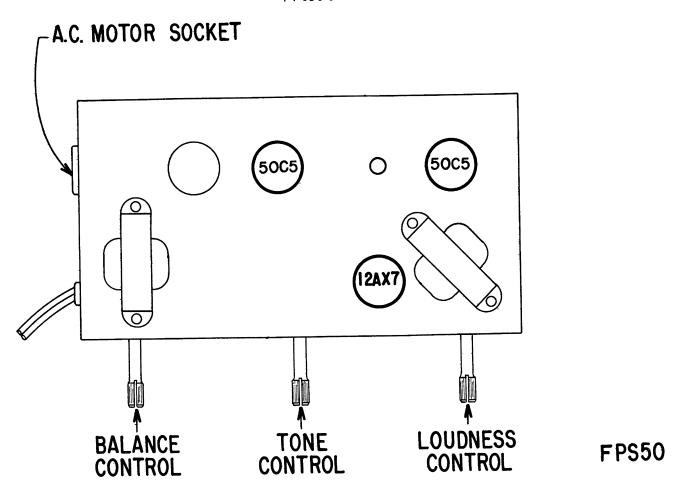
FPS45 Schematic



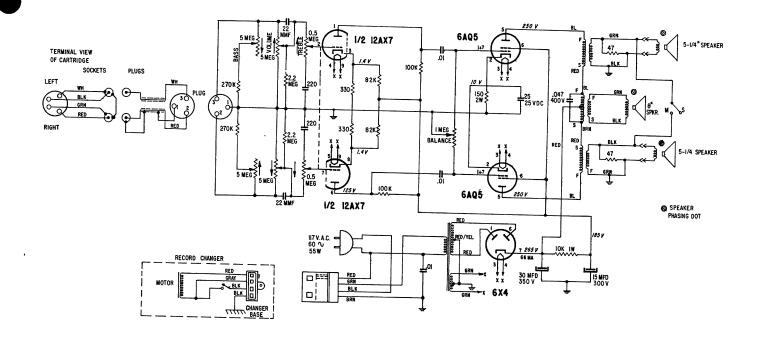
FPS45 Tube & Control Layout



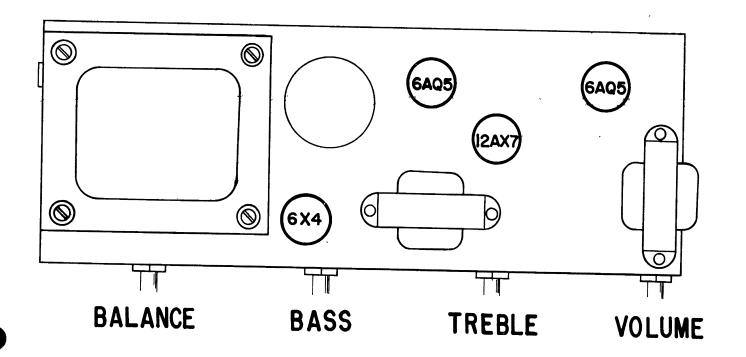
FPS50 Schematic



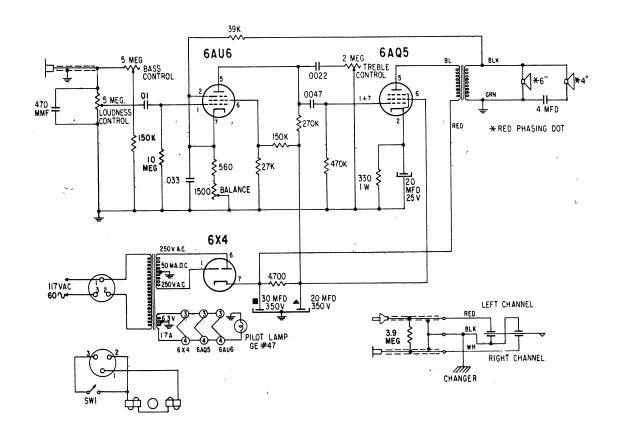
FPS50 Tube & Control Layout



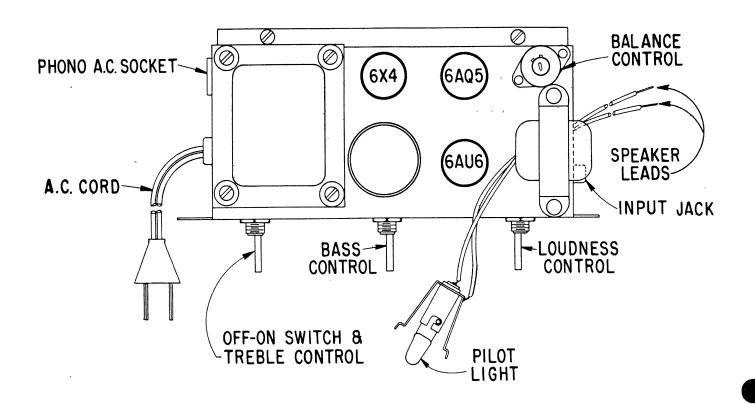
FPS80 Schematic



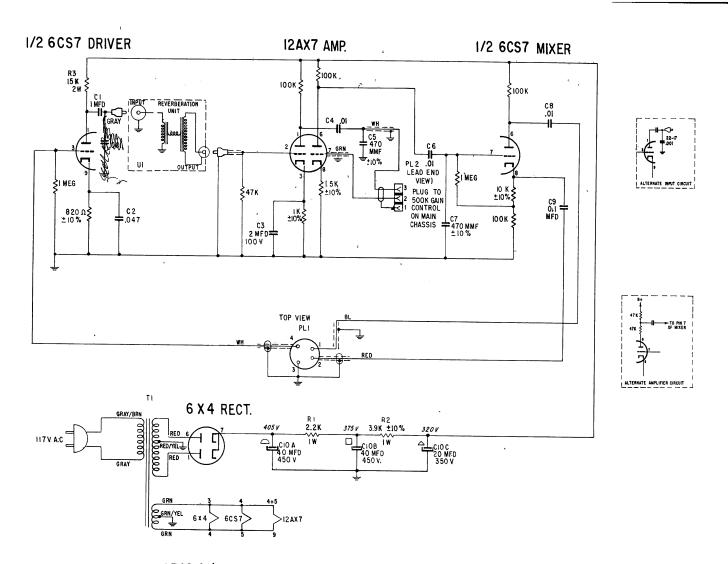
FPS80 Tube & Control Layout



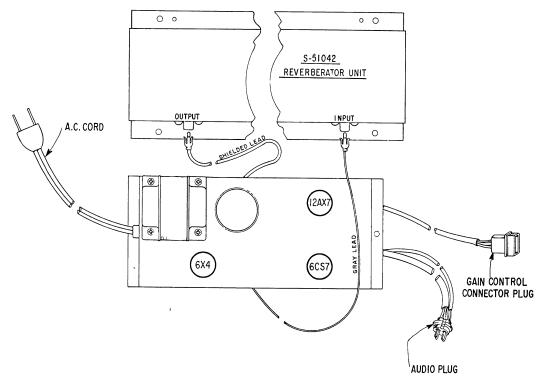
DRS89 Schematic



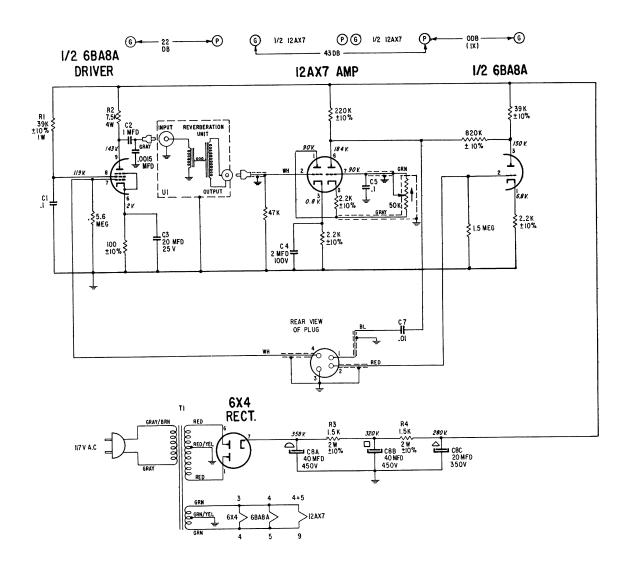
DRS89 Tube & Control Layout



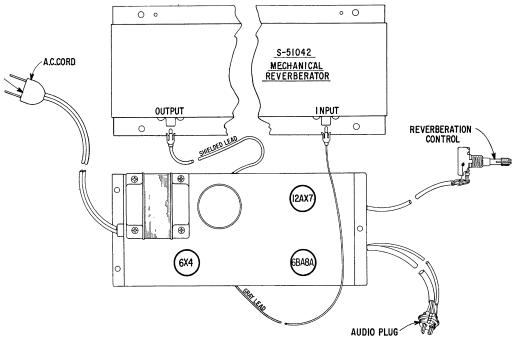
3F21 Schematic For Early Production Reverberation Amplifier



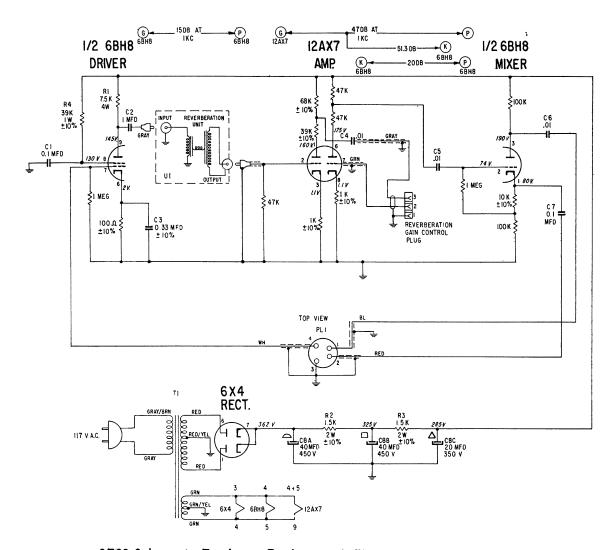
3F21 Tube Layout For Early Production Reverberation Amplifier



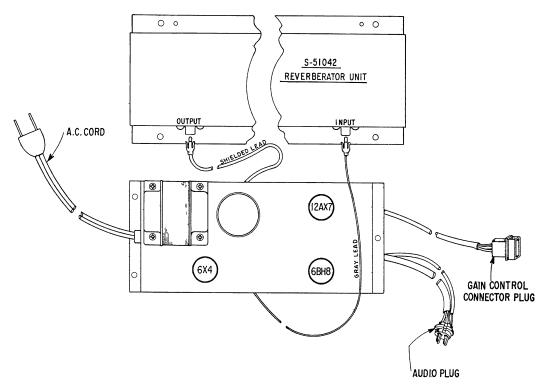
3F22 Schematic For FV20 Reverberation Amplifier



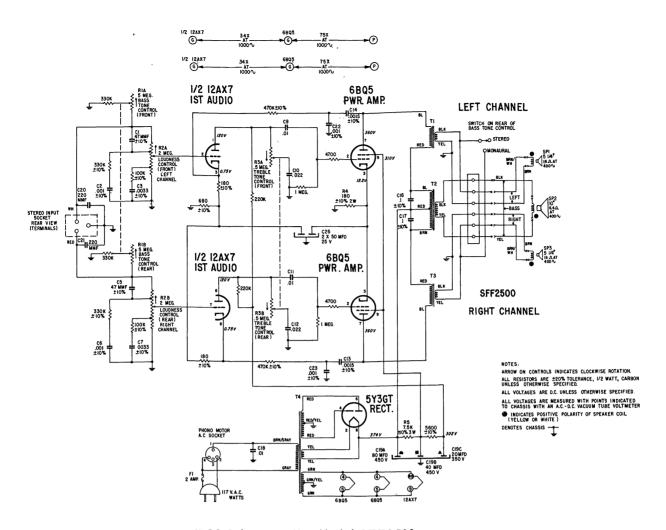
3F22 Tube Layout & Cable Connections For FV20 Reverberation Amplifier



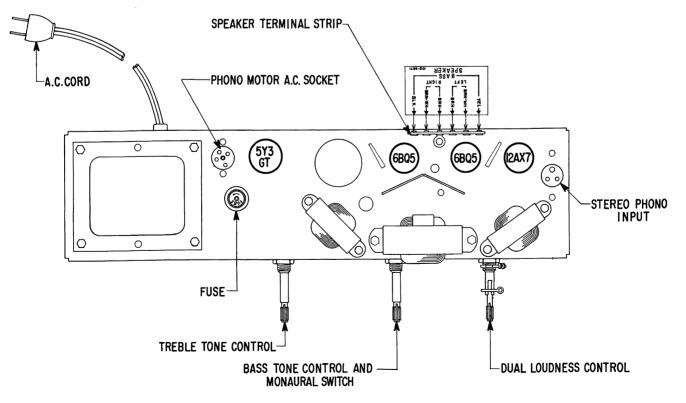
3F23 Schematic For Later Production & FV22 Reverberation Amplifier



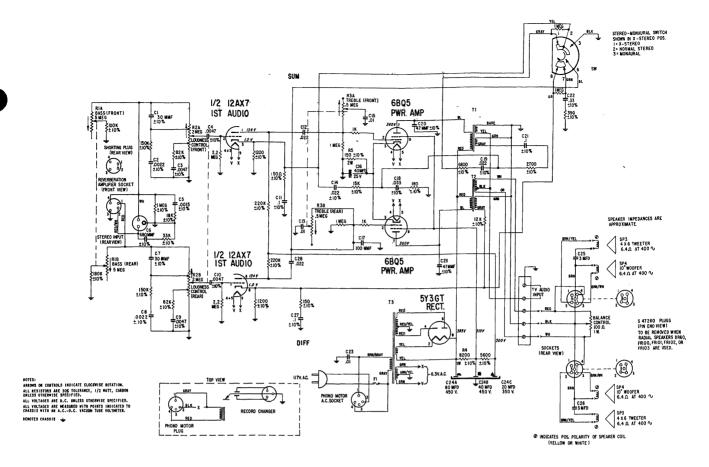
3F23 Tube Layout & Cable Connections For Later Production & FV22 Reverberation Amplifier



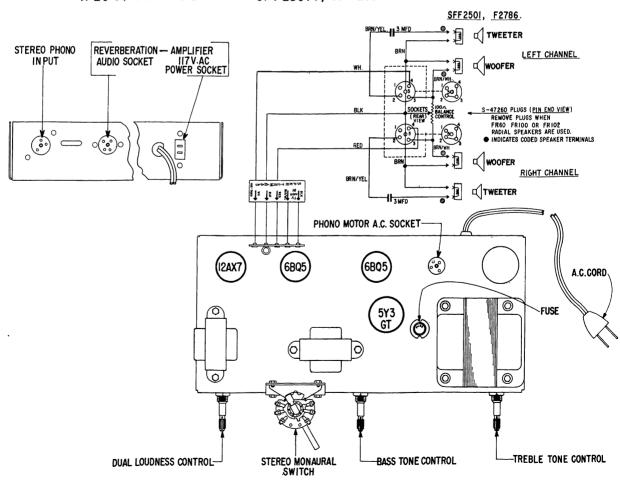
4D20 Schematic For Model SFF2500



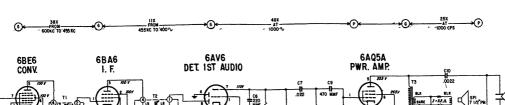
4D20 Tube Layout For Model SFF2500

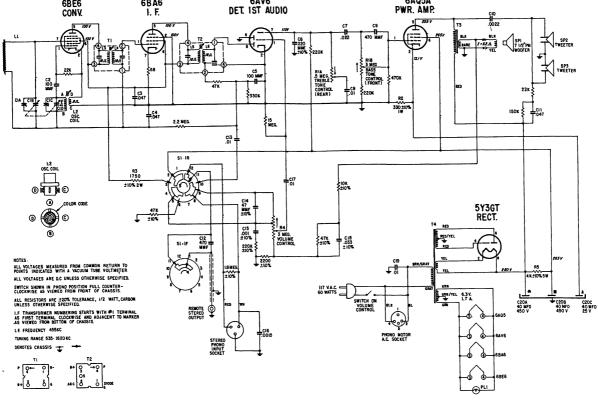


4F20 Schematic For Models SFF2501T, SFF2601

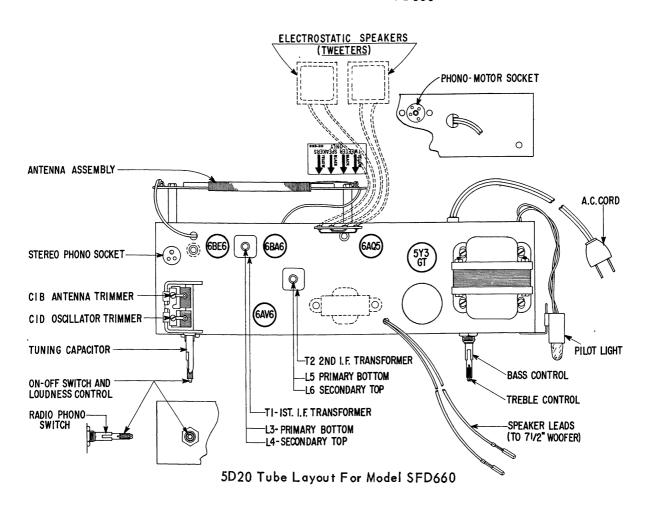


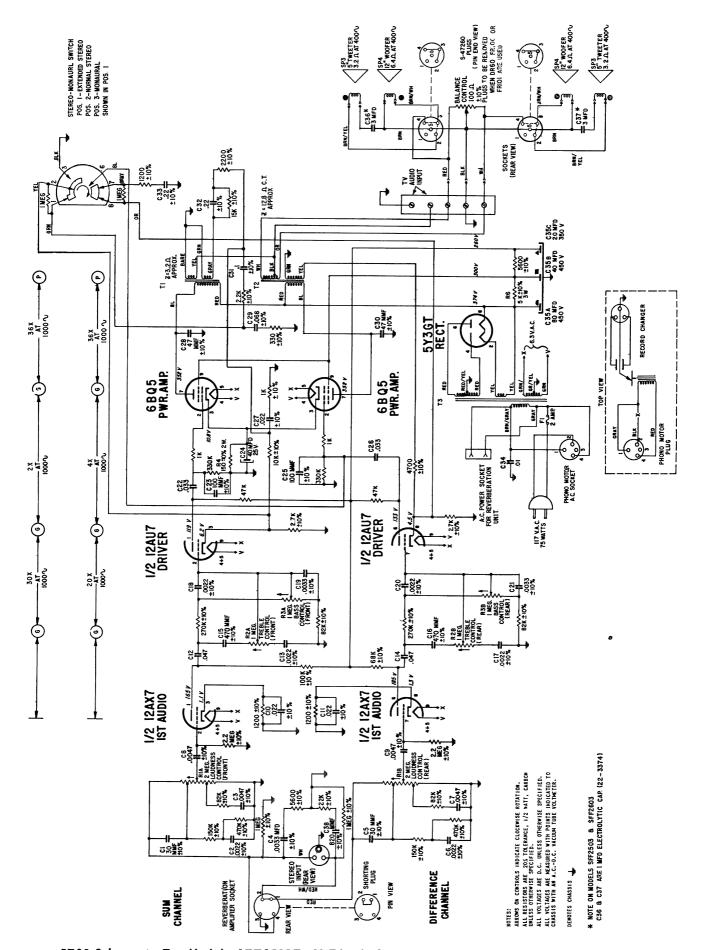
4F20 Tube Layout For Models SFF2501T, SFF2601



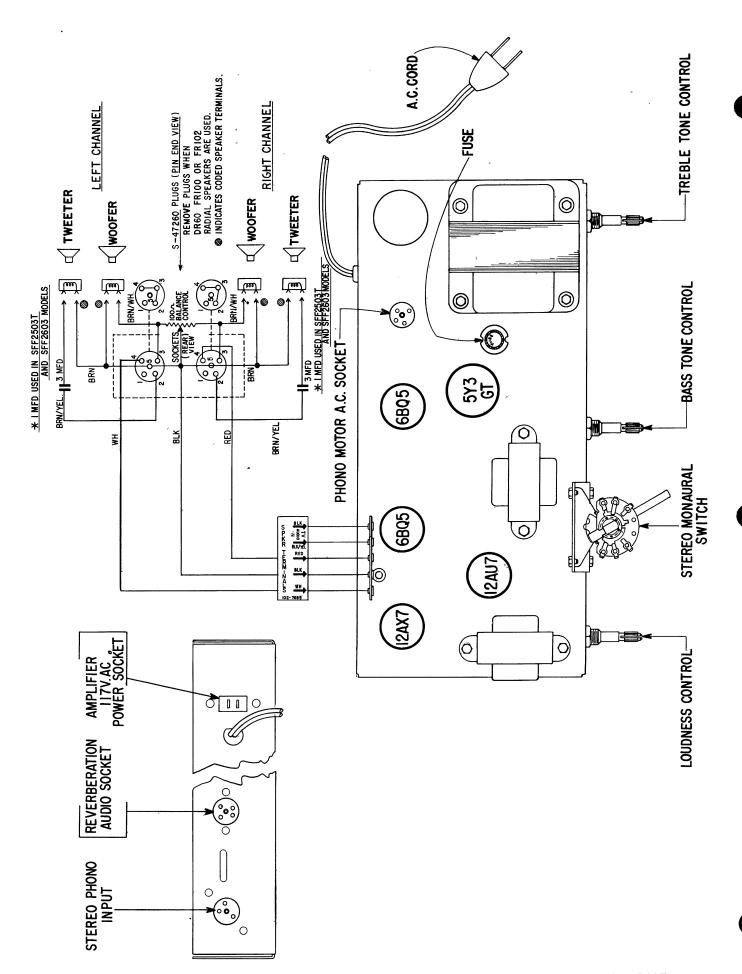


5D20 Schematic For Model SFD660

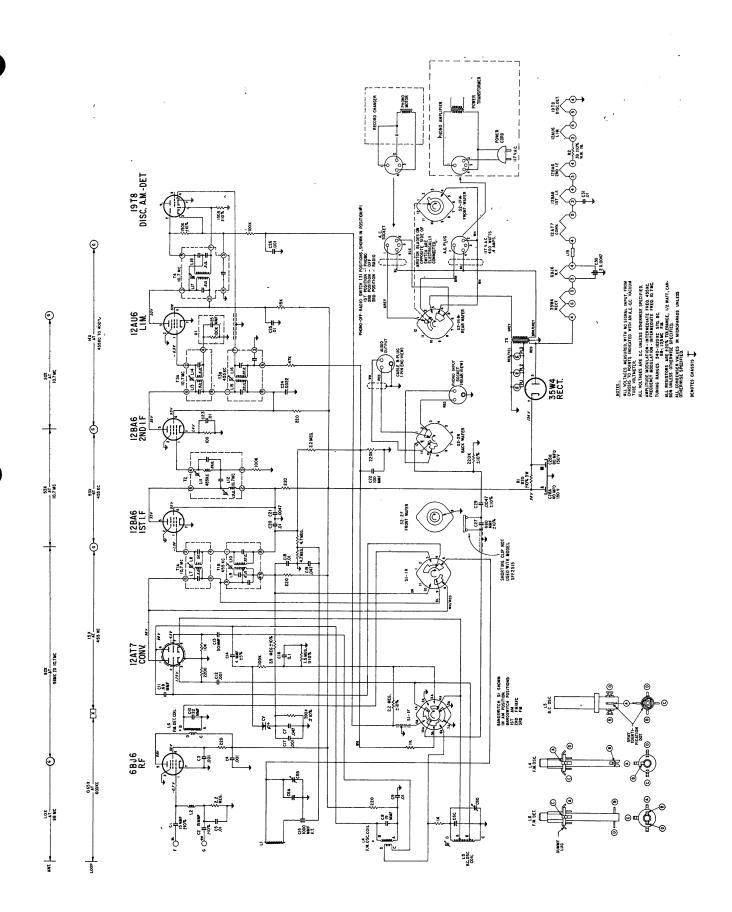




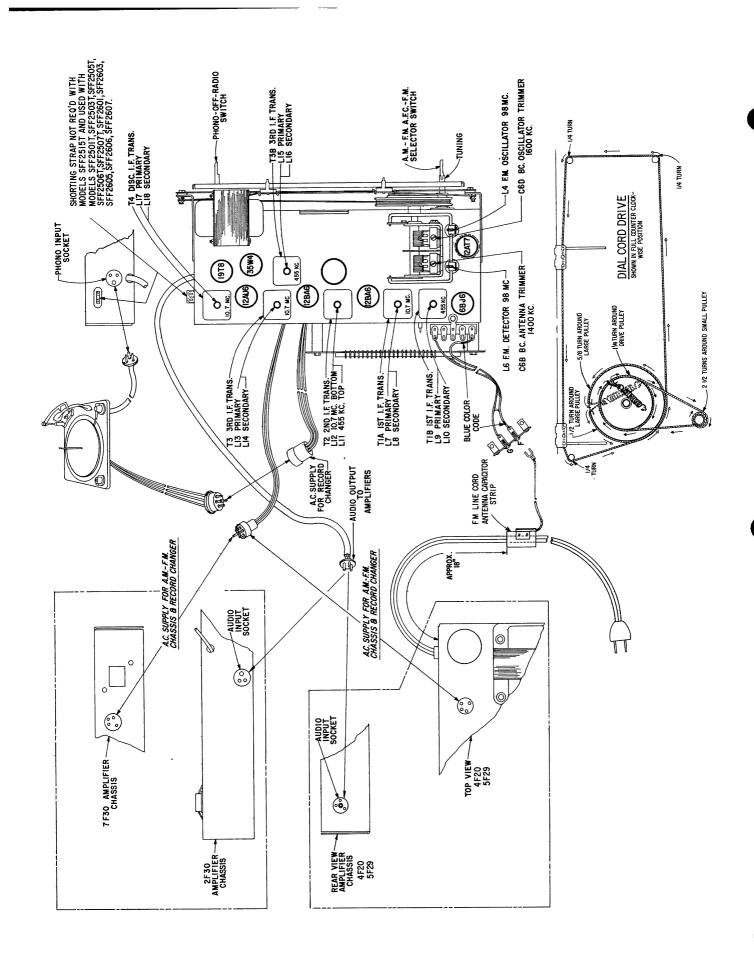
5F29 Schematic For Models SFF2503T, SFF2603, SFF2505T, SFF2605, SFF2606 & SFF2607



5F29 Tube Layout For Models SFF2503T, SFF2603, SFF2505T, SFF2605, SFF2606 & SFF2607



7F20 Schematic For FT11 Tuner



7F20 Tube Layout & Cable Connections For Model FT11

TO THE SERVICEMAN:

Zenith Engineers have created a supplementary AM-FM tuner Model FT11 that can be used in conjunction with Models SFF2501T, SFF2503T and SFF2515T. This tuner has been designed to mount in the record storage compartment of the cabinet.

The following installation instructions are for the specific models listed above, however, they will also apply to any other models to which the FT11 tuner can be added.

INSTALLATION INSTRUCTIONS

- Remove the cabinet back.
- Remove the two screws that fasten the record storage compartment into the cabinet and then remove the record storage compartment,
- 3. Lower the FT11 tuner into the record storage compartment area.
- Insert the two chassis mounting bolts through the brackets at each end of the FT11 chassis.
- Securely tighten the chassis mounting bolts. Should the tuner become microphonic at high level operation these two chassis mounting bolts should be removed.
- 6 Remove the record changer audio cable from the amplifier chassis and insert it into the socket provided at the end of the FT11 tuner chassis.
- Take the audio cable from the FT11 tuner and insert it into the socket on the amplifier chassis from which the record changer audio cable has been removed.
- Remove the record changer power cable from the amplifier chassis and insert it into the 4 hole socket and cable hanging from the bottom of the FT11 chassis.
- Take the power cable from the FT11 and insert it into the socket on the amplifier chassis from which the record changer power cable has been removed.
- 10. Fasten "F & G" FM antenna terminal strip to the right side of the vertical center panel so it will line up with the hole provided in the cabinet back.
- 11. Wrap the fibre strip (foil side out) around the 110 volt AC cord at a point approximately 18 inches from the amplifier chassis. Then close the fibre strip with the clamp and blue wire assembly.
- 12. Connect the blue wire lug to "F" screw on the FM terminal strip.
- Be certain to keep the AC cord and all cables as far away from the broadcast Wavemagnet as possible.
- 14. When the FT11 is used with Models SFF2515T and SFF2615, remove the shorting strap from the end of the FT11 chassis.

15. When the FT11 tuner is used with Models SFF220T and SFF2515T, be certain the Bass Control is pushed down in Phono Position.

The 7F20 chassis incorporates a superheterodyne circuit with two stages of IF, on the FM Band, and two stages on the AM Band. There is one stage of RF amplification on the FM Band.

The IF transformers and the discriminator transformer are the new permeability tuned type. The advantage of an IF transformer of this type is its extreme stability under various humidity and temperature conditions. The upper coil is the secondary and the lower the primary. When adjusting these IF and discriminator transformers, tuning wrench 68-19 can be inserted into the top slug, rotated until maximum output is obtained and then dropped down to the lower slug and the same operation repeated. The tuning wrench is so designed that tuning one slug does not effect the adjustment of the other.

Alignment of this chassis will, in most cases, be unnecessary unless an IF or RF transformer is replaced or the adjustments have been tampered with.

FM Discriminator Alignment: When the secondary of the discriminator is aligned (operation 5) use sufficient signal input to get a good positive and negative indication before setting the slug for zero reading. A center zero indicating meter is recommended for this adjustment, but is not absolutely necessary. Reversing the leads of a non-zero center meter, or observing closely when the meter starts to go to the left (negative) of zero will give the same results.

FM IF Alignment Because of the wide band pass, it is desirable to use a FM signal generator and a cathode ray oscilloscope when aligning the FM IF channel. The instruction book for the Zenith model 800 Signal Generator (Form Z8001) covers complete FM alignment procedure. If visual alignment equipment is unavailable, reasonably accurate alignment can be made by following the procedure outlined in this service note.

Correct alignment can only be made if the following procedure is followed:

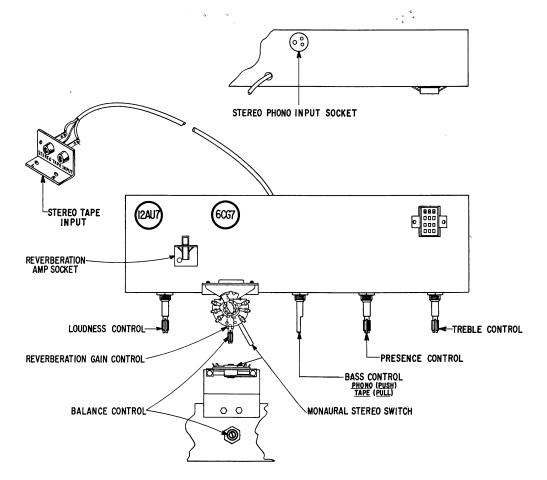
A vacuum tube voltmeter with an isolation resistor of 2,000,000 ohms in series with the hot lead will serve for FM adjustments. This lead should be shielded.

The signal generator output should be kept just high enough to get an indication on the meter.

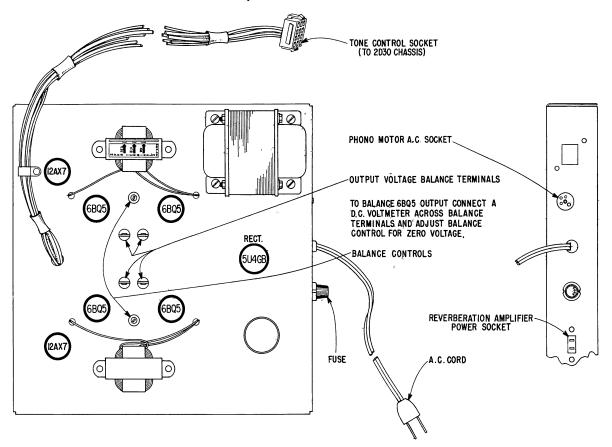
- (a) Vacuum Tube Voltmeter Lug 7 on discriminator transformer to chassis (half discriminator load).
- (b) Vacuum Tube Voltmeter Lug 5 on discriminator transformer to chassis (full discriminator load).
- (c) Vacuum Tube Voltmeter from Limiter Grid to Chassis.
- (d) Loosen Slugs by applying a hot iron to the cement.
- (e) Vacuum Tube Voltmeter Lug 6 of T3B to Chassis.

ALIGNMENT PROCEDURE

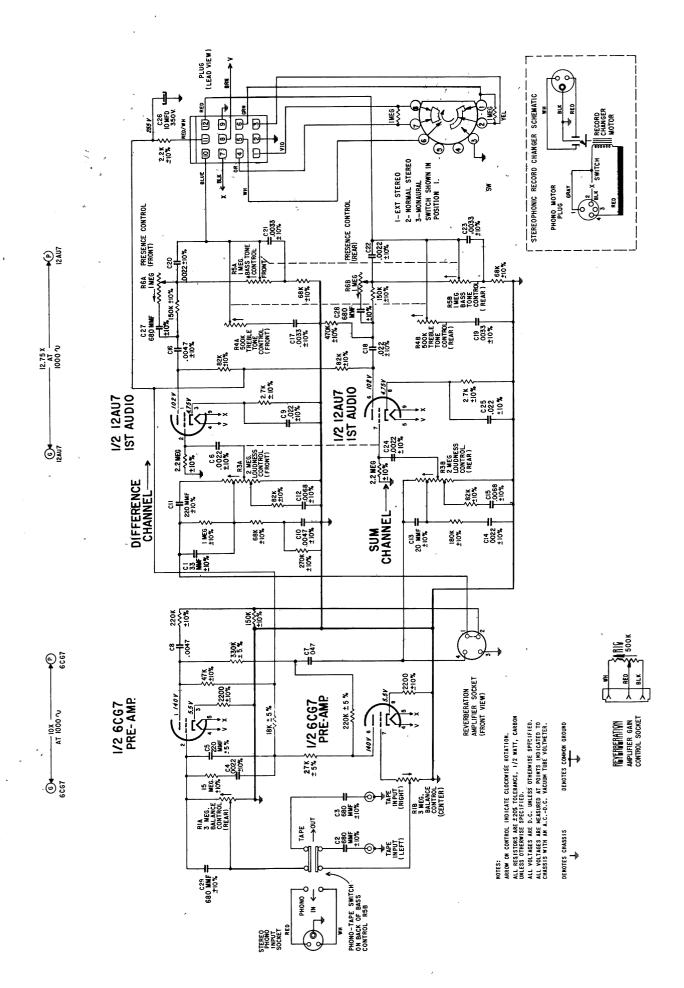
OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
l(e)	Pin 2 12AT7 Converter	.05 Mfd.	455 Kc. 400 Cycle Modulated	вс	600 Kc.	L9,10,11,15,16	Align IF channel for max. output
2(e)	2 turns loosely coupled to wavemagnet		1600 Kc. 400 Cycle Modulated	вс	1600 Kc.	C6D	Set oscillator to dial scale
3(e)	2 turns loosely coupled to wavemagnet		1400 Kc. 400 Cycle Modulated	ВС	1400 Kc.	C6B	Align antenna stage
4(a)	Pin 1 (grid) on 12AU6 limiter	.05 Mfd.	10.7 Mc. Unmodulated	FM		L17 coil slug pri. discr.	Align primary of discriminator fo maximum reading
5(b)	Pin 1 (grid) on 12AU6 limiter	∙05 Mfd.	10.7 Mc. Unmodulated	FM		L18 coil slug sec. of discr.	Adjust secondary of discriminate for zero reading
6(c)	Pin 1 (grid) on 12BA6 2nd IF	.05 Mfd.	10.7 Mc. Unmodulated	FM		L13 & L14 pri. & sec. of 3rd IF transf.	Align 3rd IF transf. for max. reading
7(e)	Pin 1 (grid) on 12BA6 1st IF	.05 Mfd.	10.7 Mc. Unmodulated	FM		L12 pri. of 2nd IF transf.	Align 2nd IF transf. for max. reading
8(c)	Pin 2 (grid) on 12AT7 converter tube socket	.05 Mfd.	10.7 Mc. Unmodulated	FM		L7 & L8 pri. & sec. of 1st IF transf.	Align 1st IF transf. for max. reading
9(c) (d)	Antenna Post FM	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L4 osc. coil slug	Set osc. to dial scale
1 0(c) (d)	(Remove line ant.)	270 Ohms	98 Mc. Unmodulated	FM	98 Mc.	L6 det. coil slug	Align det. stage to max. reading



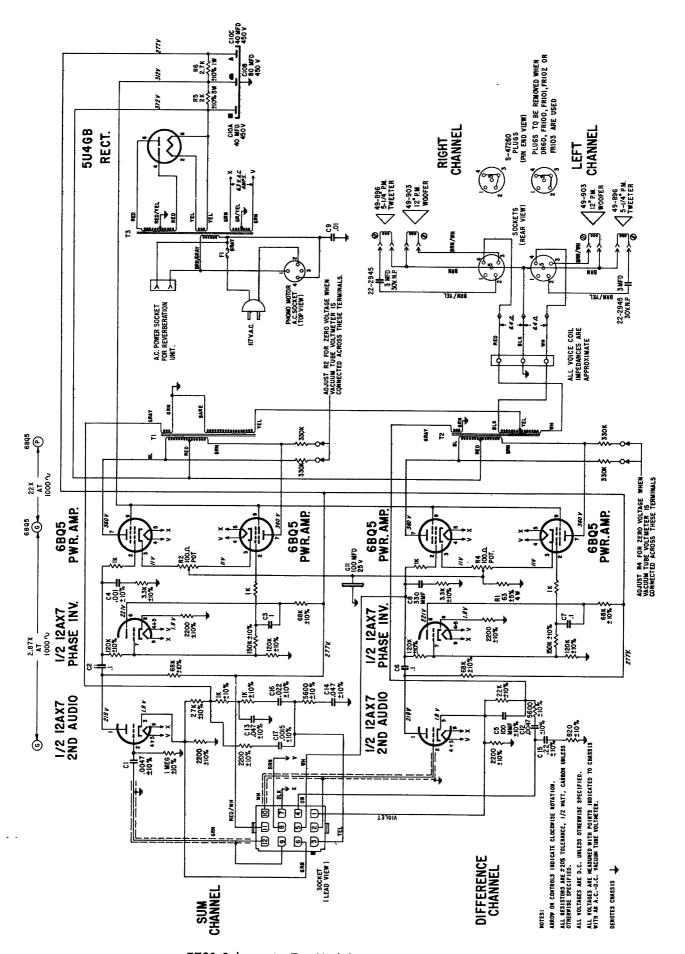
2F30 Tube Layout For Models SFF2515T & SFF2615



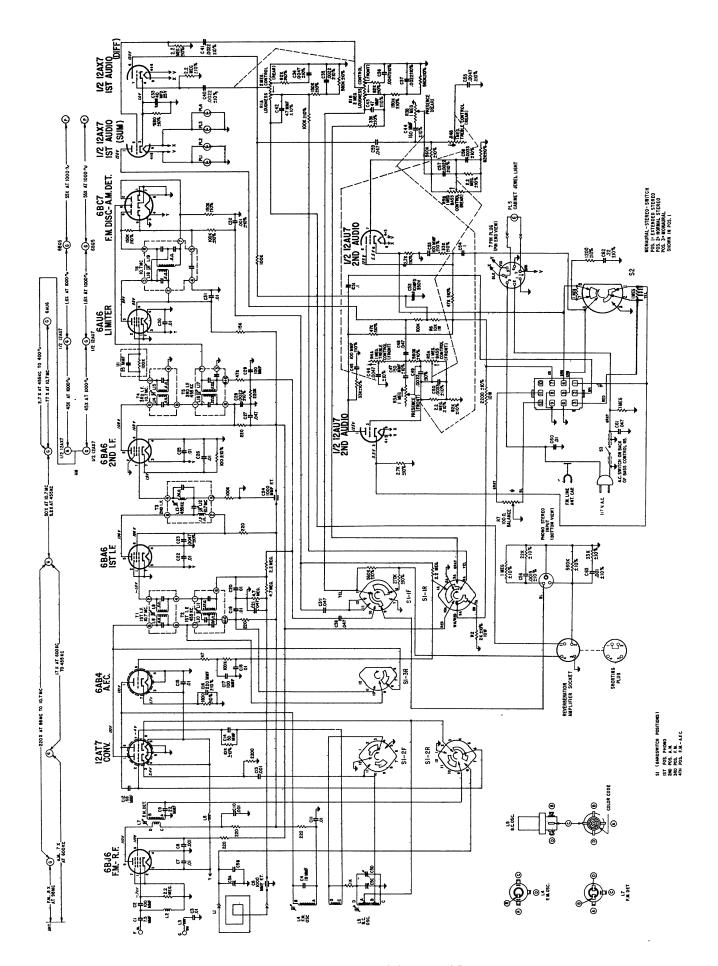
7F30 Tube Layout For Models SFF2515T & SFF2615



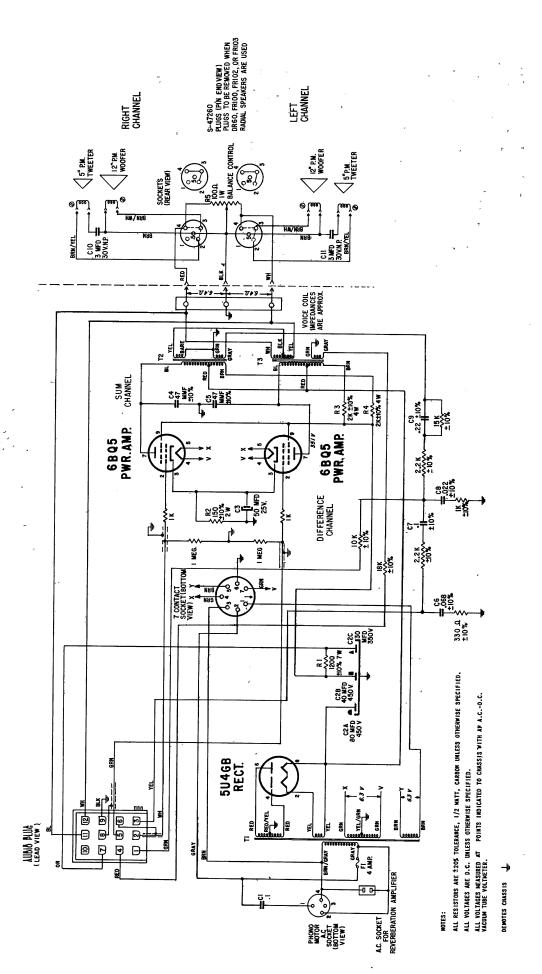
2F30 Schematic For Models SFF2515T & SFF2615



7F30 Schematic For Models SFF2515T & SFF2615

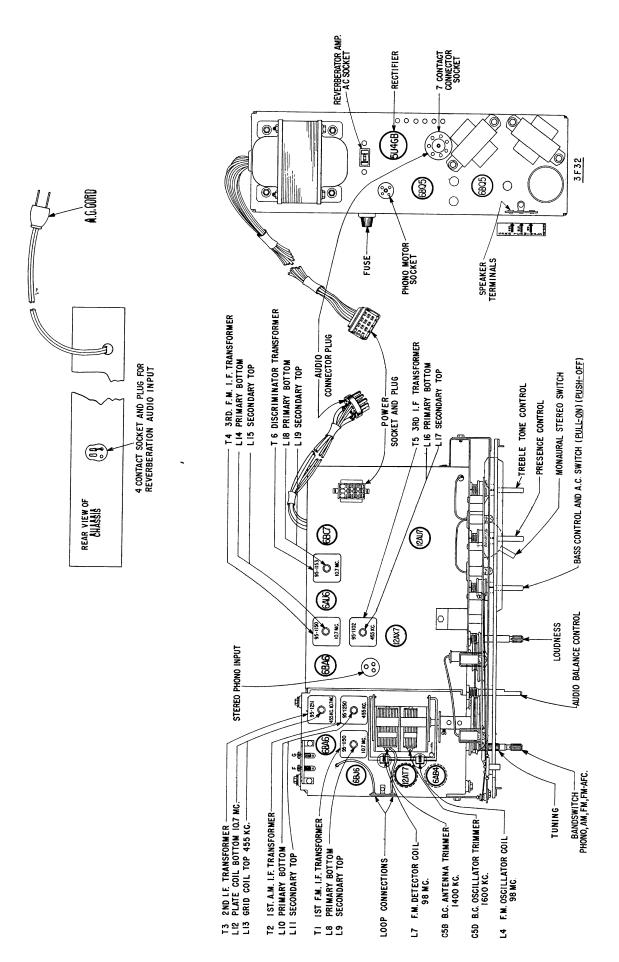


9F26 Schematic For Model SFF2535

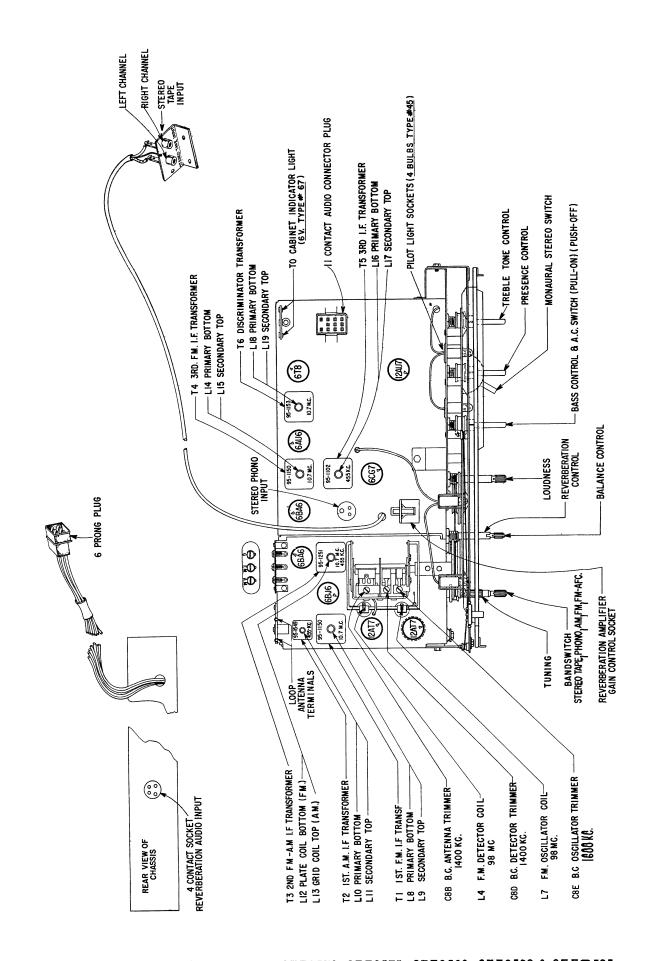


3F32 Schematic For Model SFF2535

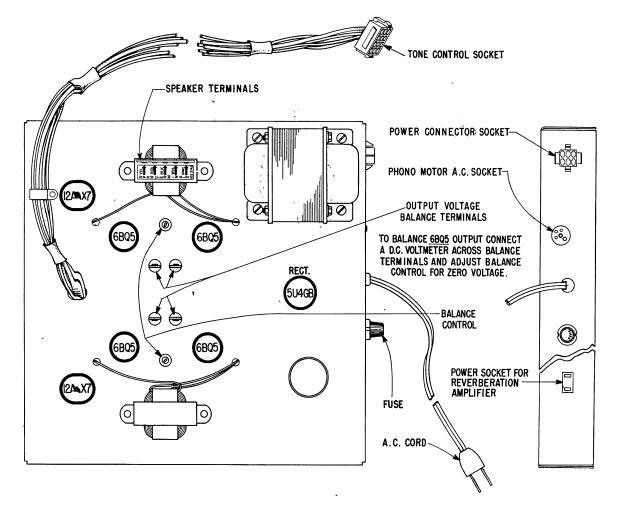
STEP	CONNECT OSCILLATOR TO	DUMMY	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
1	Pin 7 on 12AT7 mixer (Pin 2 on 9F26 chassis)	.05 mfd.	455 Kc., 400 cycle modu- lated	AM	600 Kc.	L10, 11, 13, 16,	Align IF channel for maximum output
2	Two turns loosely coupled to wavemagnet	.05 mfd.	1600 Kc., 400 cycle modu- lated	AM	1600 Kc.	CSE (C5D on 9F26 chassis)	Set oscillator to dial scale
8	Two turns loosely coupled to wavemagnet	.05 mfd.	1400 Kc., 400 cycle modu- lated	AM	1400 Kc.	C8B - C8D (C5B on 9F26 chassis)	Align detector and antenna stage
4	IMPORTANT: Before attemptin	0,0	FM portion of th	iis receiv	er the bandswitch	to align the FM portion of this receiver the bandswitch should be turned to "FM"	to "FM"
5 (a)	Pin 1 (grid) on 6AU6 limiter	.05 mfd.	10.7 Mc. Unmodulated	FM		L18	Align primary of discriminator for maximum reading
(q) 9	Pin 1 (grid) on 6AU6 limiter	.05 mfd.	10.7 Mc. Unmodulated	FM		L19	Adjust secondary of discriminator for zero reading
7(c)	Pin 1 (grid) on 6BA6 2nd IF	.05 mfd.	10.7 Mc. Unmodulated	FM		L14,15	Align 3rd IF transformer for maximum reading
8(c)	Pin 1 (grid) on 6BA6 1st IF	.05 mfd.	10.7 Mc. Unmodulated	FM	-	L12	Align 2nd IF transformer for maximum reading
(c) 6	Pin 7 on 12AT7 mixer (Pin 2 on 9F26 chassis)	.05 mfd.	10.7 Mc. Unmodulated	ĘМ		L8,9	Align 1st IF transformer for maximum reading
10 (c)	REPEAT STEPS 7,8 & 9			:			
11(c)	Antenna post FM (remove line antenna)	270 ohms	98 Mc. Unmodulated	FM	98 Mc.	L7 osc, coil slug(L4 on 9F26 chassis)	Set oscillator to dial scale
12(c) (d)	Antenna post FM (remove line antenna)	270 ohms	98 Mc. Unmodulated	FM	98 Mc.	L4 det. coil slug (L7 on 9F26 chassis)	Align det. stage to maximum reading



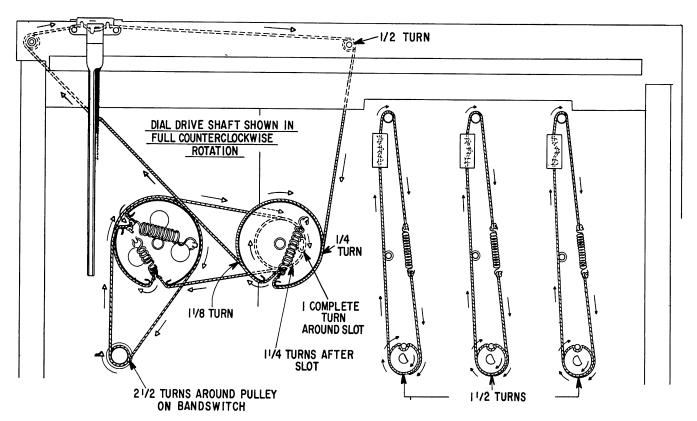
3F32, 9F26 Tube Layout For Model SFF2535



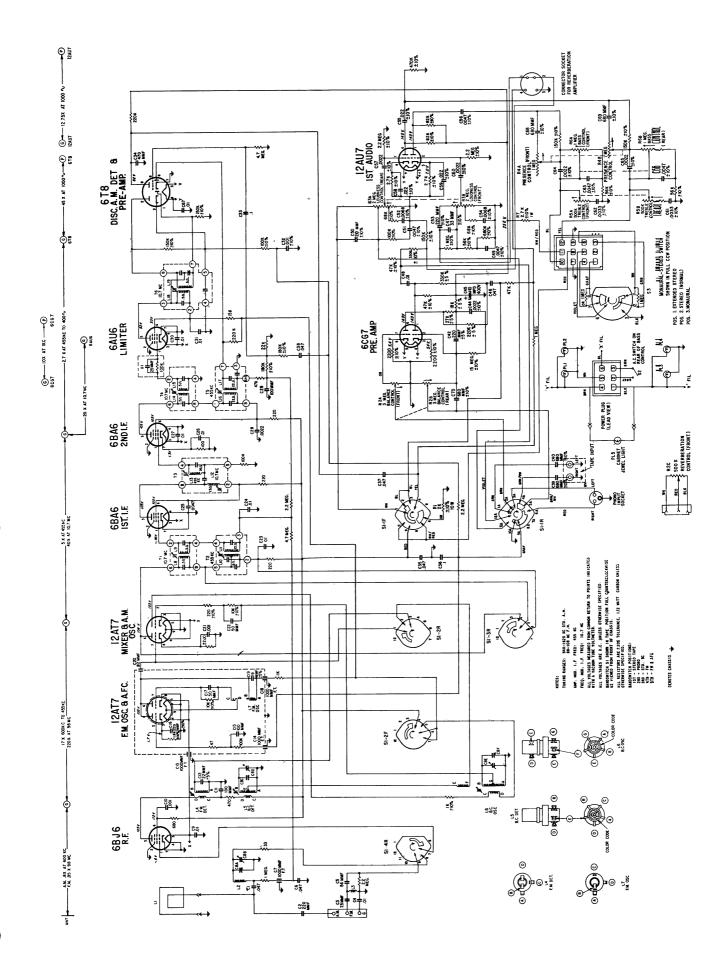
9F24 & 9F25 Tube Layout For Models SFF2560, SFF2570, SFF2575, SFF2580, SFF2582 & SFF2585



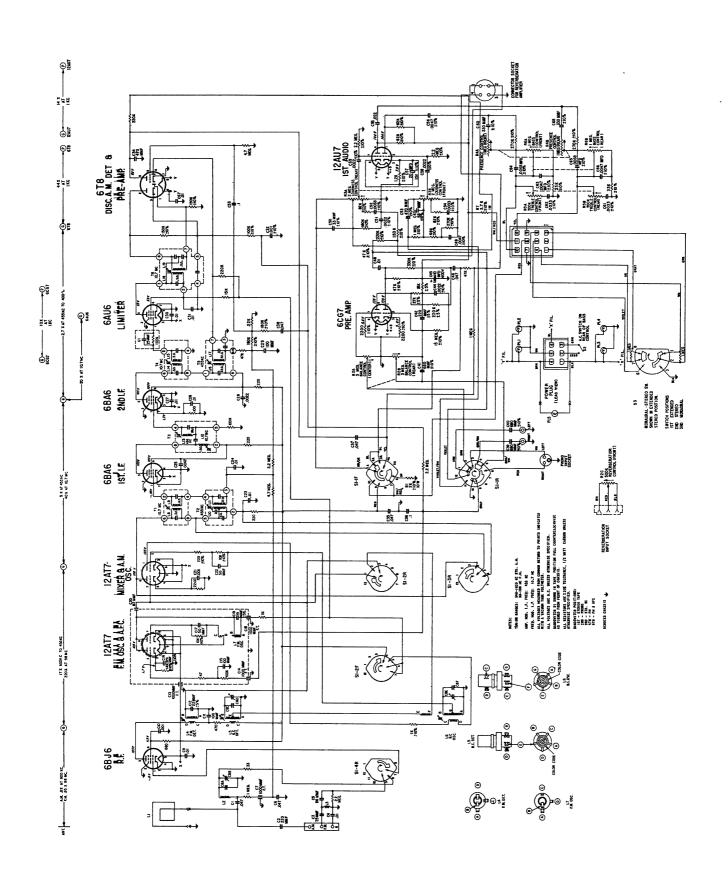
7F31 & 7F33 Tube Layout For Models SFF2560, SFF2570, SFF2575, SFF2580, SFF2582 & SFF2585



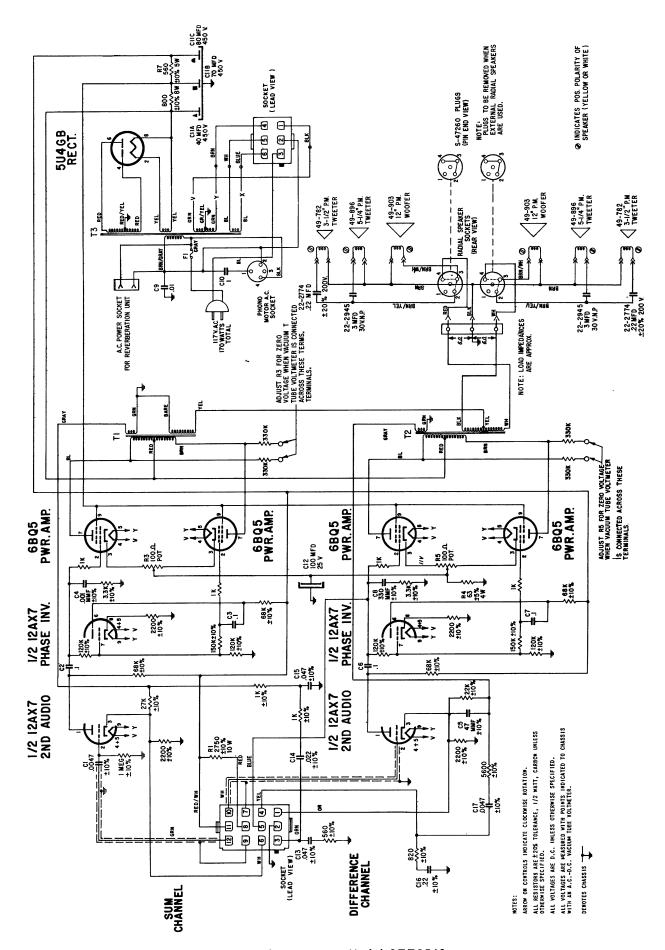
9F24, 9F25 & 9F26 Dial Cord Drive



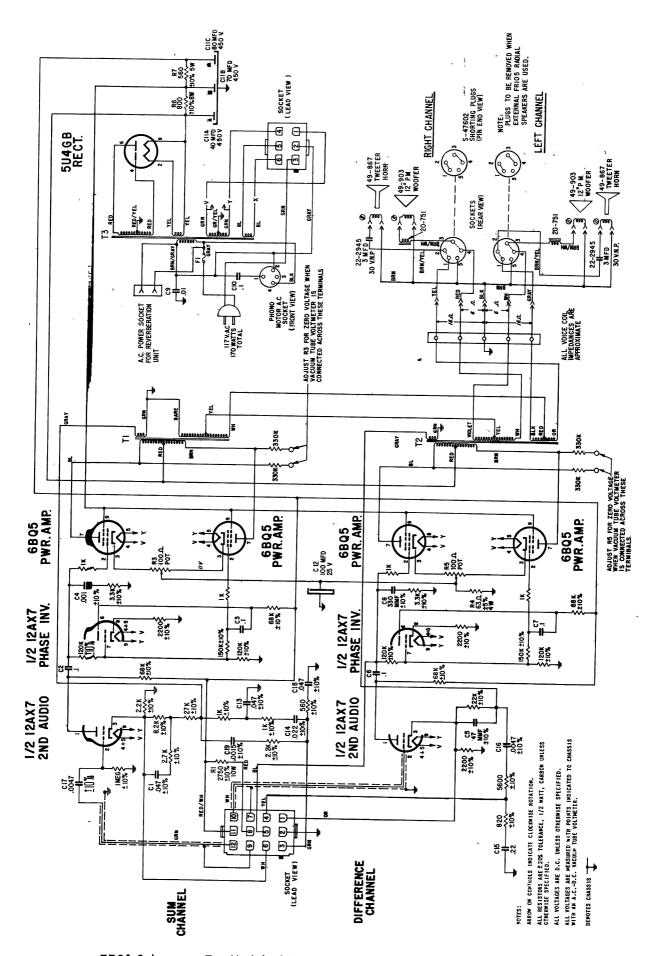
9F24 Schematic For Model SFF2560



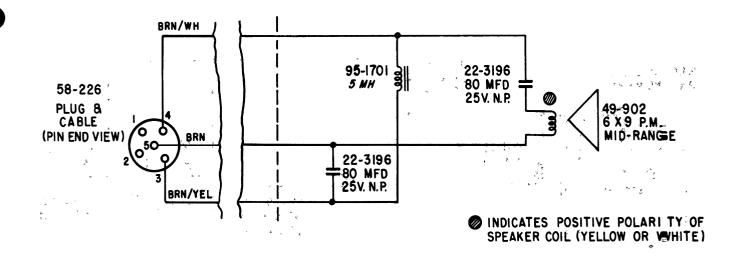
9F25 Schematic For Models SFF2570, SFF2575, SFF2580, SFF2582 & SFF2585



7F33 Schematic For Model SFF2560



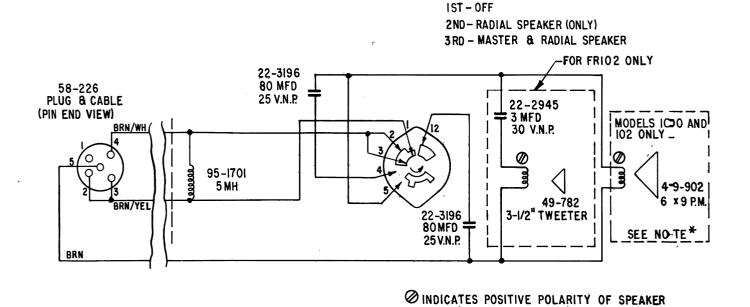
7F31 Schematic For Models SFF2570, SFF2575, SFF2580, SFF2582 & SFF2585



Schematic For Model DR60

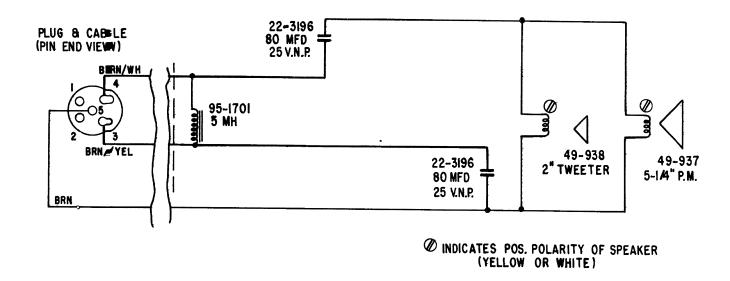
SHOWN IN FIRST POS.

(YELLOW OR WHITE)



*NOTE: 49-835, 7-1/2"
P.M. SPEAKER USED ON
MODEL FRIOI ONLY.

Schematic For Models FR100, FR101 & FR102



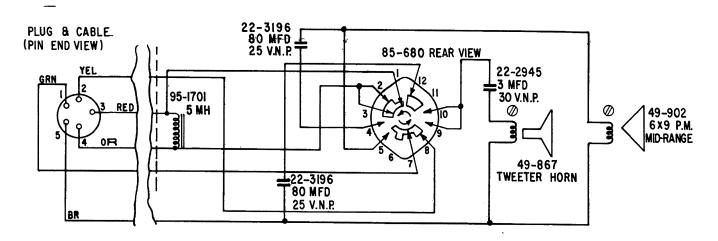
Schematic For Model FR103

SHOWN IN FIRST POSITION

IST — OFF

2ND— RADIAL SPEAKER (ONLY)

3RD—MASTER AND RADIAL SPEAKER



∅ INDICATES POS. POLARITY OF SPEAKER (YELLOW OR WHITE)

Schematic For Model FR105

NUMERICAL PARTS LIST

2F30 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
12-2807	Mounting Bracket	.10	63-1799	2.2K Ohm 1/2 W.Ins. 10% (3 required)	.17
12-2999	Stereo Switch Mounting Bracket		63-1803	2.7K Ohm 1/2 W.Ins. 10% (2 required)	.17
22-13	.0033 Mfd.Disc - 500V. (2 required)		63-1925	2.2 Megohm 1/2 W.Ins.10% (2 required)	.17
22-14	.0047 Mfd.Disc Ceramic - 500V.	.25	63-1960	15 Megohm 1/2 W.Ins. 10%	.17
22-18	.0022 Mfd.Disc Ceramic - 500V.		63-4418	Dual Treble Tone Control	2.75
	(6 required)	.25	63-4638	Dual Volume Control	2.75
22-2703	220 Mmf. Disc Ceramic - 500V.	.25	63-4649	Dual Bass Tone Control and Switch	4.00
22-2797	.047 Mfd. Capacitor - 600V.	.35	63-4731	Dual Presence Control	
22-2807	.022 Mfd. Capacitor - 200 V. (2 required	.25	63-4739	Triple Section Balance Control	
22-2809	.022 Mfd. Capacitor - 600V.	.30		•	
22-2819	.0068 Mfd.Capacitor - 200V.(2 required)	.30			0.5
22-2824	.0047 Mfd.Capacitor - 600V.	.25	78-846	Noval Wafer Socket (2 required)	.35
22-2827	.0047 Mfd.Capacitor - 600V.		78-1099	3 Contact Socket	.20
22-2831	.0033 Mfd.Capacitor - 200V.(2 required))	78-1122	4 Contact Socket	.15
22-2863	33 Mmf. Disc Ceramic - 500V.	.25	83-2145	5 Lug Terminal Strip	.10
22-2939	680 Mmf.Disc Ceramic-800V.(5 require	d) .25	83-2216	7 Lug Terminal Strip (2 required)	.15
22-2943	10 Mfd.Electrolytic - 350V.	1.85	83-2642	5 Lug Terminal Strip	.10
22-2976	220 Mmf.Disc Ceramic - 500V.	.30	83-2673	6 Lug Terminal Strip	.10
22-3139	20 Mmf. Disc Ceramic - 500V.	.25	85-678	Monaural - Stereo Switch	
43-332	Socket Housing	.15	86-303	Terminal (3 used on 43-332)	.04
43-419	Socket Terminal Housing (Male)	.35	86-334	Socket Terminal (2 used on 43-419)	.10
44-33	Connector Jack (2 pt. of S-44775)	.15	112-1327		.03
52-928	2 Conductor Shielded Lead		114-26	$8-18 \times 1/4 \times 1/4$ Hex.Hd.Self-tap.Screw	
54-139	3/8 - 32 x 9/16 Palnut (1 Mts.ea.63-441	8,		(2 Int. 12–1999)	.03
	4638, 4640, 4649 & 4731)	.03	S-44775	Stereo Jack & Bracket Assem.	.75

3F21 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-85	Line Cord		63-1856	47 K Ohm Resistor 1/2W. 20%	.17
22-3	.01 Mfd. Disc Capacitor - 500V		63-1870	100 K Ohm Resistor 1/2W. 20% (4 used)	.17
	(3 used)	.30	63-1912	1 Megohm Resistor 1/2W. 20% (2 used)	.17
22-16	470 Mmfd. Disc Capacitor - 500V	.25	63-2356	3900 Ohm Resistor 1 W. 10%	.25
22-17	.001 Mfd. 400V		63-4738	2200 Ohm Resistor 1 W. 20%	.25
22-2751	1 Mfd. Capacitor 400V		78-846	Noval Wafer Socket (2 used)	
22-2781	.1 Mfd. Capacitor 400V		78-1159	Molded Socket	.20
22-2792	.047 Mfd. Capacitor 200V		83-2638	3-Lug Terminal Strip	.05
22-3046	Electrolytic Capacitor	4.50	83-2639	3-Lug Terminal Strip (2 used)	.05
22-3109	2 Mfd. Electrolytic 100V		83-2642	5-Lug Terminal Strip	.10
43-333	Housing	.20	86-303	Terminal (3 used)	.04
52-937	Shielded Lead			·	
58-214	Phone Plug (2 used)	.10			
58-242	4-Prong Plug	.15	95-1791	Power Transformer	
63-1014	15 K Ohm Resistor 2W. 20%	.34	112-1327	8-18 x 5/16 Phillips Rd. Hd. Self-Tapping	•
63-1782	820 Ohm Resistor 1/2 W. 10%	.17		Screw - Type B (4 used on 95-1791)	
63-1785	l K Ohm Resistor 1/2W. 10%	.17	125-96	Strain Relief Grommet	.10
63-1792	1500 Ohm Resistor 1/2W. 10%	.17	S-51128	Shielded Lead & Plug Assembly	
63-1827	10 K Ohm Resistor 1/2W. 10%	.17	S-51130	Shielded Lead & Plug Assembly	

3F22 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-109	Line Cord	.50	58-242	4 Prong Plug (Pt. of S-51128)	.15
22-3	.01 Mfd. Disc - 500V.	.30	63-1188	39K Ohm 1W. Ins. 10%	.25
22-2633	20 Mfd. Capacitor - 25V.	1.00	63-1743	100 Ohm 1/2W. Ins. 10%	.17
22-2751	1.0 Mfd. Capacitor - 400V.		63-1799	2.2K Ohm 1/2W. Ins. 10%	.17
22-2781	.1 Mfd. Capacitor - 400V. (2 required)	.35	63-1852	39K Ohm 1/2W. Ins. 10%	.17
22-3046	Electrolytic - 20/350V.40/450V.40/450V	4.50	63-1908	820K Ohm 1/2W. Ins. 10%	.17
22-3109	2 Mfd. Electrolytic - 100V.	1.25	63-1919	1.5 Megohm $1/2W$. Ins. 20%	.17
46-2622	Control Knob		63-1943	5.6 Megohm 1/2W. Ins. 10%	.17
52-942	Shielded Lead		63-2321	1.5K Ohm 2W. Ins. 10% (2 required)	.34
57-3102	Control Plate		63-2802	2.2K Ohm 1/2W. Ins. 10% (2 required)	.17
58-214	Phone Plug (2 required)	.10	63-2872	47K Ohm 1/2W. Ins. 10%	.17

PART	DES-CRIPTION	PRICE	PART	DESCRIPTION	PRICE
	* * *	in the state of th			
63-4055	7.5K Ohm 4W. Ins. 10%	.65	93-1021	.029x.578x7/8 Steel Washer Cad.	
63-4083	220K Ohm 1/2W. Ins. 10%	.17	94-1120	Control Mtg. Bushing	
63-4751	Reverberation Control "	and the second	95-1791	Power Transformer	
78-846	Nova_1 Wafer Socket (2 required)	.35	112-1327	8-18x5/16 Phils Rd.Hd. Self-Tapping	
78-1159	MoldEed Socket	.20		Screw (4 Mt. 15-1791)	.03
83-2639	3 Lugg Terminal Strip	.05	114-766	10-16x7/8 Slotted Hex Head Self-Tapping	*
83-2649	2 Lugg Terminal Strip	.05		Screw	
83-2715	3 Lugg Terminal Strip	.05	125-96	Strain Relief Grommet (used on 11-1091)	.10
86-255	Spade Terminal	.03	S-51128	Shielded Lead & Plug Assem.	
93-409	Inter nal-External Lockwasher Shake	e-	S-51130	Shielded Lead & Plug Assem.	
	proo 4020-26 Cad.				

3F23 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-109	Line Cord	.50	63-1912	1 Megohm 1/2 W.Ins.20% (2 required)	.17
22-3	.01 Mafd. Disc - 500V. (3 required)	.30	63-2321	1.5K Ohm 2 W.Ins. 10% (2 required)	.34
22-2751	1 Mfcd. Capacitor - 400 V.		63-4055	7.5K Ohm 4 W.Ins. 10%	.65
22-2771	.33 Mard. Capacitor - 200V.		78-846	Noval Wafer Socket (2 required)	.35
22-2781	.1 Mfd. Capacitor - 400V. (2 required)	.35	78-1159	Molded Socket	.20
22-3046	Electrolytic - 20/350 40/450 40/450	4.50			
43-333	Housing	.20			
52-037	Shiel-ded Lead		83-2639	3 Lug Terminal Strip (2 required)	.05
58-214	Phon∉ Plug (2 required)	•	83-2715	3 Lug Terminal Strip	.05
58-242	4 Prong Plug (Pt. of S-51128)		83-3562	7 Lug Terminal Strip	
63-1743	100 Ohm 1/2 W. Ins. 10%	.17	86-303	Terminal (3 required)	.04
63-1785	1K Ohm 1/2 W. Ins. 10% (2 req'd.)	.17	95-1791	Power Transformer	
63-1827	10K Ohm 1/2 W. Ins. 10%	.17	112-1327	8-18 x 5/16 Phils.Rd.Hd.Self-tap.Screw	
63-1852	39K Chm 1/2 W.Ins. 10% (2 required)	.17		(4 Mt. 95-1791)	.03
63-1856	47K Ohm 1/2 W.Ins. 20% (2 required)	.17	125-96	Strain Relief Grommet(used on 11-109)	.10
63-1863	68K Ohm 1/2 W.Ins. 20%		S-51128	Shielded Lead & Plug Assembly	
63-1870	100K Ohm 1/2 W.Ins.20% (3 required).	.17	S-51130	Shielded Lead & Plug Assembly	

3F32 CHASSIS PARTS

PART	DESC RIPTION	PRICE	PART	DESCRIPTION	PRICE
12-2187 15-201 22-1561 22-2376 22-2777 22-2781	Chassis Mounting Bracket (3 required) FuseEnolder Cap 50 Mffd. Electrolytic - 25V. 47 Mfmf. Ceramic - (2 required) .22 Mffd. Capacitor - 200V1 Mf d. Capacitor - 400V.	.10 .30 .25 .35 .35	63-4475 78-402 78-755 78-939 78-1043 78-1058 83-1475	1.2K Ohm 7W. Ins. 10% 4 Contact Socket Octal Tube Socket (5U4GB) Noval Molded Tube Socket (6BQ5) (2 req.) 7 Contact Socket AC Receptacle Insulating Strip	.90 .15 .20 .40 .25 .30
22-2783 22-2789 22-2807 22-3159 43-419 52-871 52-872 54-473 62-23	.1 Mfcl. Capacitor - 200V068 Mfd. Capacitor - 200V022 Mfd. Capacitor - 200V. Elect_rolytic - 30/350 40/450 80/450 Socke-t Terminal Housing (male) Shielcled Lead Shielcled Lead Hex Nut (Mts. 62-23) Fuse Receptacle	.30 .35 .25 5.50 .35 .50 .50	83-2307 83-2639 83-2673 83-2715 83-3477 86-334 93-1036 93-1179 95-1786 95-1787	4 Lug Terminal Strip 3 Lug Terminal Strip 6 Lug Terminal Strip 3 Lug Terminal Strip 8 Lug Terminal Strip 8 Cocket Terminal (11 used in 43-419) Lockwasher (Mts. 62-23) Rubber Washer (Mts. 62-23) Power Transformer Output Transformer	.10 .05 .10 .05 .10
63-1764 63-1785 63-1786 63-1799 63-1827 63-1834 63-1838 63-1912 63-2019 63-4033	330 O:hm 1/2 W.Ins. 10% 1 K O:hm 1/2 W.Ins. 10% 1 K O:hm 1/2 W.Ins. 20% (2 required) 2.2K ○:hm 1/2 W.Ins. 10% (2 required) 10K ○:hm 1/2 W.Ins. 10% 15K ○:hm 1/2 W.Ins. 10% 18K ○:hm 1/2 W.Ins. 10% 1 Meg:ohm 1/2 W.Ins. 20% (2 required) 150 O:hm 2 W.Ins. 10% 2K O:hm 4 W. Ins. 10% (2 required)	.17 .17 .17 .17 .17 .17 .17 .17 .17 .34	95-1788 114-78 114-699 125-85 136-31 237-1	Output Transformer 8-18 x 5/16 x 1/4 Hex.Hd.Self-tap.Screw (2 used on ea. 95-1787 & 1788) 10-16 x 3/8 Hex.Washer Hd.Self-tap Screw (4 used on 95-1786) Rubber Grommet Fuse - 4 Amp Type 3AG Cable Retaining Clip	.03 .03 .05 .25

4D20 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-150 15-201 22-3 22-17 22-2321 22-2376 22-2670 22-2785 22-2805 22-2812 22-2812 22-2843 22-3245 22-3245 22-3238 22-3292 54-139 54-140 54-348 54-473 62-23 63-1754 63-1814 63-1817 63-1884	DESCRIPTION AC Cord & Plug Fuseholder Cap .01 Mfd.Ceramic Disc - 500V (2 used) .001 Mfd.Ceramic Disc - 1KV (2 used) 220 Mmf.Ceramic Disc - 500V (2 used) 47 Mmf Ceramic Disc - 500V (2 used) .0033 Mfd Ceramic Disc - 500V (2 used) .0033 Mfd Ceramic Disc - 500V (2 used) .022 Mfd Paper - 600V (2 used) .022 Mfd Paper - 400V (2 used) .01 Mfd Paper - 600V (2 used) .01 Mfd Paper (2 used Electrolytic - 20/350 40/450 80/450 .0015 Mfd Paper - 600V (2 used) 2 x 50 Mfd Electrolytic - 25V 3/8-32 x 9/16 Hex Palnut (1 mts.ea. 63-4669 & 63-4670) 3/8-32 x 9/16 Hex Nut 8-32 "KEPS" Nut (4 mt. 95-1716) Fuse Receptacle 180 Chm1/2 W Ins 10% (2 used) 680 Ohm 1/2 W Ins 10% 4700 Ohm 1/2 W Ins 10% 4700 Chm 1/2 W Ins 10% 100 K Ohm 1/2 W Ins 10% 100 K Ohm 1/2 W Ins 10% (2 used) 220 K Ohm 1/2 W Ins 10% (2 used)	.80 .30 .30 .25 .25 .25 .25 .25 .25 .25 .25	63-3975 63-4055 63-4668 63-4669 63-4670 69-320 78-402 78-846 78-1089 78-1165 80-1249 80-1250 83-2135 83-2145 83-2538 83-2673 83-3075 93-1179 93-1036 95-1714 95-1716	180 Ohm 2 W Ins 10% 7500 Ohm 4 W Ins 10% Dual Loudness Control Dual Treble Tone Control Dual Bass Tone Control & Switch 2/64 x 5/16 Rd Hd Mach Screw (2 mt. 83-3075) 4 Contact Socket 9 Contact Wafer Tube Socket 9 Contact Molded Tube Socket (2 used) 3 Contact Socket Octal Tube Socket Shaft Friction Spring Sleeve Friction Spring Sleeve Friction Spring 1 Lug Terminal Strip 5 Lug Terminal Strip 6 Lug Terminal Strip 6 Lug Terminal Strip Bearing Strip (2 used) Rubber Washer (used on 62-23) Lock Washer (used on 62-23)	.34 .65 3.50 2.75 3.50 .03 .15 .25 .25 .20 .25 .15 .10 .10 .10 .03 .03 .03 .03 .03 .03
63-1890 63-1891 63-1897 63-1912	330 K Ohm 1/2 W Ins 10% (2 used) 330 K Ohm 1/2 W Ins 20% (2 used) 470 K Ohm 1/2 W Ins 10% (2 used) 1 Megohm 1/2 W Ins 20% (2 used)	.17 .17 .17 .17	125-96 126-928 136-36	(2 mt. ea. 95-1714 & 1715) Strain Relief Grommet Shield Fuse - 2 Amp	.03 .10 .10 .15
VO 1014	1 110601111 1/2 1. HID 20/0 (a aboa)			•	

4F20 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-148	A.C. Cord & Plug	.90	63-1880	180K Ohm 1/2 W.Ins.10%	.17
12-2997	Switch Mounting Bracket	•••	63-1883	220K Ohm 1/2 W.Ins.10% (2 required)	.17
15-201	Fuseholder Cap	.30	63-1911	1 Megohm 1/2 W.Ins.10%	.17
22-3	.01 Mfd. Disc - 500V. (2 required	.30	63-1912	1 Megohm 1/2 W.Ins.20% (2 required)	.17
22-9	100 Mmf. Disc - 500V.	.15	63-1926	2.2 Megohm 1/2 W.Ins.20% (2 required)	.17
22-12	1500 Mmf. Disc - 500V.	.25	63-2019	150 Ohm 2 W.Ins.10%	.34
22-14	.0047 Mfd. Disc - 500V. (2 required)	.25	63-4669	Dual Treble Tone Control	2.75
22-18	.0022 Mfd. Disc - 500V. (2 required)	.25	63-4729	Dual Loudness Control	
22-1156	40 Mfd. Electrolytic - 25 V.		63-4734	Dual Bass Tone Control	
22-2376	47 Mmf. Disc - 500V. (2 required)	.25	78-402	4 Contact Socket	
22-2771	.33 Mfd. Capacitor - 200V.		78-755	Octal Socket (5Y3GT)	.20
22-2783	.1 Mfd. Capacitor - 200V. (3 required)	.30	78-846	Noval Wafer Socket (12A x 7)	.35
22-2801	.033 Mfd. Capacitor - 200V.	.30	78-939	Noval Molded Socket (6BQ5)(2 required)	.40
22-2806	.022 Mfd. Capacitor - 600V. (2 required	.30	78-1058	AC Receptacle	.30
22-2807	.022 Mfd. Capacitor - 200V. (2 required		78-1099	3 Contact Socket	.20
22-2812	.01 Mfd. Capacitor - 600V.	.30	78-1122	4 Contact Socket	
22-2825	.0047 Mfd. Capacitor - 200V. (2 required	1) .25	83-2135	4 Lug Terminal Strip	
22-2939	680 Mmf. Disc - 500V.	.25	83-2216	7 Lug Terminal Strip (2 required)	
22-3046	Electrolytic - 20/350 40/450 40/450	4.50	83-2538	3 Lug Terminal Strip	
22-3327	30 Mmf. Disc - 500V. (2 required)		83-2639	3 Lug Terminal Strip	
54-139	3/8 - 32 x 9/16 Hex. Palnut (1 Mts. ea.		83-2641	5 Lug Terminal Strip	
	63-4669, 4729 & 4734)	.03	83-2649	2 Lug Terminal Strip	
54-473	Hex Nut (Mts. 62-23)	.05	83-2965	7 Lug Terminal Strip	.10
58-242	4 Prong Plug	.15	83-3516	5 Lug Terminal Strip	
63-1576	8.2 K Ohm 1 W.Ins. 10%		85-678	Monaural - Stereo Switch	
63-1750	150 Ohm $1/2$ W.Ins. 10% (2 required)	.17	93-1036	Lockwasher (Mts. 62-23)	
63-1754	180 Ohm 1/2 W.Ins. 10%	.17	93-1179	Rubber Washer (Mts.62-23)	.03
63-1768	390 Ohm 1/2 W.Ins. 10%	.17	95-1743	Power Transformer	
63-1786	1K Ohm $1/2$ W.Ins. 20% (2 required)	.17	95-1780	Audio Output Transformer	
63-1789	1.2K Ohm $1/2$ W.Ins. $10%$ (2 required)	.17	95-1790	Audio Output Transformer	
63-1820	6.8K Ohm 1/2 W.Ins.10%	. 17	114-26	8-18 x 1/4 x 1/4 Hex.Hd.Self-tap.Screw	
63-1803	2.7K Ohm 1/2 W.Ins.10%	.17		(2 used on 12-2997)	.03
63-1817	5.6K Ohm 1/2 W.Ins.10%	.17	114-699	$10-16 \times 3/8 \times 3/16$ Hex Washer Hd. Self-	
63-1831	12K Ohm 1/2 W.Ins.10%	.17		tap. Screw (4 used on 95-1743)	.03
63-1834	15K Ohm 1/2 W.Ins.10%	.17	125-96	Strain Relief Grommet (used on 11-148)	.10
63-1838	18K Ohm 1/2 W.Ins.10%	.17	136-36	Fuse - 2 Amp.	.10

5D20 CHASSIS PARTS

PART	DES CRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-103	Line Cord & Plug	1.00	63-4665	4000 Ohm 5 W 10%	.80
12-2329	Variable Capacitor Mtg.Brkt.	.15	78-402	4 Contact Socket	.15
12-2865	Pilot Light Mtg.Bracket	.05	78-755	Octal Tube Socket	.20
19-306	Coil Mounting Clip	.10	78-806	7 Contact Wafer Tube Socket (2 used)	.15
22-3	.01 Mfd. Ceramic Disc 500V (3 used)	.30	78-807	7 Contact Wafer Tube Socket	.15
22-5	100 Mmf.Ceramic Disc 500V(2 used)	.25	78-1060	Pilot Light Socket & Wire	.50
22-7	.001_ Mfd. '' '' 500 V.	.25	78-1099	3 Contact Socket	.20
22-12	.001 5 " " " 500 V.	.25	78-1159		.20
22-16	470 Mmf. " " 500V.(2 used)	.25	83-2135	4 Lug Terminal Strip (2 used)	.10
22-18	.00≥2 Mfd. '' '' 500V.	.25	83-2639		.05
22-2321	220 Mmf. '' '' 500V.	.25	83-2715	3 Lug Terminal Strip	.05
22-2376	47 Mmf. " " 500V.	.25	83-2963	4 Lug Terminal Strip	.10
22-2792	.047 Mfd. Paper 200V.	.35	86-199	Terminal (used on 22-3073)	.03
22-2794	.047 Mfd. Paper 600V.(2 used)	.35	86-329	Connector Terminal (1 pt.of ea.S-21998	.00
22-2801	.033 Mfd. Paper 200V.	.30	00-020	& 21999)	.03
22-2806	.022 Mfd. Paper 600V.	.30	93-127	Lockwasher	.03
22-2812	.01 Mfd. Paper 600V.	`.30	94-295	Capacitor Mtg.Bushing (3 used)	.03
22-1720	Electrolytic - 40/25 40/450 40/450	4.00	94-1052	Wood Spacer Bushing (2 used on S-24659) .10
22-3073	2 Section Variable	3.50		2	, .10
44-39	Conmector Jack (used on 52-651)	.25	114-201	8-32 x 5/16 x 1/4 Hex.Hd.Self-Tap.	0.0
52-651	Shielded Lead	.70	114 000	Screw (2 used on 12-2329)	.03
54-139	$3/8 - 32 \times 9/16$ Palnut (1 mts.ea.		114-293	$6-32 \times 3/8 \times 1/4$ Hex.Hd.Mach.	0.0
	63-4662 & 4663)	.03	114 000	Screw (used on 22-3073)	.03
63-1737	68 Ohm 1/2 W Ins. 20%	.17	114-383	8-32 x 1 5/8 x 1/4 Hex.Hd.Self-Tap.	0.5
63-1799	220 Ohm 1/2 W Ins. 10%	.17	114 504	Screw (2 mt. S-24659)	.05
63-1827	10 K≤ Ohm 1/2 W Ins. 10%	.17	114-594		00
63-1842	22 K Ohm 1/2 W Ins. 20% (2 used)	.17	105 15	Flat Washer att. (4 mt. 95-1713)	.03
63-1855	47K Ohm 1/2 W Ins. 10% (2 used)	.17	125-17	Rubber Grommet (3 used on 22-3073)	.03
63-1856	47K Ohm 1/2 W Ins. 20%	.17	125-96	Strain Relief Grommet	.10
63-1877	150 K '' 1/2 W Ins. 20%	.17	149-211	Iron Core (pt. of S-24654)	.10
63-1883	220 K '' 1/2 W Ins. 10%	.17	S-21998	Wire & Terminal Assem Black	.15
63-1884	220 K '' 1/2 W Ins. 20% (2 used)	.17	S-21999	Wire & Terminal Assem Yellow	.15
63-1891	330 K '' 1/2 W Ins. 20%	.17	S-24654	Oscillator Coil	.85
63-1898	470 K '' 1/2 W Ins. 10%	.17	S-24659	Antenna	1.75
63-1922	1.8 Megohm 1/2 W Ins. 10%	.17	95-1556	2nd I.F. Transformer	2.50
63-1926	2.2 Megohm 1/2 W Ins. 20%	.17	95-1712	Audio Output Transformer	5.00
63-1961	15 Megohm 1/2 W Ins. 20%	.17	95-1713	Power Transformer	12.50
63-3162	330 Ohm 1 W Ins. 10%	.25	95-1718	1st I.F. Transformer	2.50
63-4662	Dual Tone Control	2.75	100-67	Pilot Light Bulb	.15
63-4663	Radio-Phono Sw., Vol. Control & A.C.Sw.		113-34	6-32 x 3/8 x 1/4 Hex.Hd.Mach.Screw -	
63-4664	175O Ohm 2 W Ins. 10%	.34		Lockwasher att. (2 used on 22-3073)	.03

5F29 CHASSIS PARTS

PART	<u>DES</u> € CRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-148	A.C. Cord & Plug	.90	54-473	Hex Nut (Mts. 62-23	.05
12-2997	Swit-ch Mounting Bracket		58-242	4 Prong Plug	.15
15-201	Fuseholder Cap	.30	63-1764	330 Ohm 1/2 W Ins. 10%	.17
22-9	100 Mmf. Disc - (2 required)	.25	63-1785	1K Ohm 1/2 W Ins. 10%	.17
22-13	.003-3 Mfd. Ceramic Disc - 500V.		63-1786	1K Ohm $1/2$ W Ins. 20% (2 required)	.17
22-14	.004 7 Mfd. Disc - 500V. (2 required)	.25	63-1789	1.8K Ohm $1/2$ W Ins. 10% (3 required)	.17
22-18	.002 2 Mfd. Disc - 500V. (6 required)	.25	63-1799	2.2K Ohm 1/2 W Ins. 10% (2 required)	
22-1156	40 MIfd. Electrolytic - 25V.		63-1803	2.7K Ohm $1/2$ W Ins. $10%$.17
22-2302	470 Mmf. Ceramic - 500V. (2 required)	.25	63-1813	4.7K Ohm 1/2 W Ins. 10%	.17
22-2334	560 Mmf. Ceramic - 500V.		63-1817	5.6K Ohm $1/2$ W Ins. $10%$ (2 required)	
22-2376	47 Mmf. Disc - 500V. (2 required)	.25	63-1827	10K Ohm 1/2 W Ins. 10%	.17
22-2670	.003 3 Mfd. Disc - 500V. (2 required)	.25	63-1834	15K Ohm $1/2$ W Ins. 10%	.17
22-2777	.22 Mfd Capacitor - 200V. (2 required) .35	63-1848	33K Ohm 1/2 W Ins. 10%	.17
22-2783	.1 Mafd. Capacitor - 200V.	.30	63-1856	47K Ohm $1/2$ W Ins. $20%$ (2 required)	.17
22-2789	.068 Mfd. Capacitor - 200V.	.35	63-1862	68K Ohm 1/2 W Ins. 10%	.17
22-2794	.047 Mfd. Capacitor - 600V. (2 required)	.35	63-1866	82K Ohm $1/2$ W Ins. 10% (4 required)	.17
22-2800	.033 Mfd. Capacitor - 600V. (2 required)	63-1869	100K Ohm 1/2 W Ins. 10%	.17
22-2807	.022 Mfd. Capacitor - 200V. (3 required) .25	63-1876	150K Ohm $1/2$ W Ins. 10% (2 required)	
22-2812	.01 Mfd. Capacitor - 600V.	.30	63-1887	270K Ohm 1/2 W Ins. 10% (2 required)	
22-2825	.004 7 Mfd. Capacitor - 200V.(2 required	i) .25	63-1891	330K Ohm $1/2$ W Ins. 20% (2 required)	.17
22-3046	Electrolytic - 20/350 40/450 40/450	4.50	63-1897	470K Ohm $1/2$ W Ins. $10%$ (2 required)	
22-3327	30 Mmf. Ceramic -(2 required)		63-1911	1 Megohm 1/2 W Ins. 10% (2 required)	1
54-139	3/8 - 32 x 9/16 Hex Palnut (1 Mts.ea.		63-1925	2.2 Megohm 1/2 W Ins. 10% (2 required)	ı
	63-4448, 4729 & 4730)	.03	63-2019	150 Ohm 2 W Ins. 10%	.34

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
63-4448	Dual Trebletone Control	2.75			
63-4687	5K Ohm 3 W Ins. 10%	.45	83-2641	5 Lug Terminal Strip	.10
63-4729	Dual Loudness Control		83-2649	2 Lug Terminal Strip	.0 5
63-4730	Dual Bass Tone Control		83-2965	7 Lug Terminal Strip	.10
78-402	4 Contact Socket		83-2516	5 Lug Terminal Strip	
78755	Octal Tube Socket (5Y3GT)		85-678	Monaural - Stereo Switch	
78-846	Noval Wafer Tube Socket (12 AU7)(12AX	7)	93-1036	Lockwasher (Mts. 62-23)	
	(2 required)		93-1179	Rubber Washer (Mts. 62-23)	.03
78-939	Noval Molded Tube Socket (6BQ5)		95-1743	Power Transformer	16.00
	(2 required)	.40	95-1780	Audio Output Transformer	
78-1058	A C Receptacle	.30	95-1790	Audio Output Transformer	
78-1099	3 Contact Socket	.20	114-26	$8-18 \times 1/4 \times 1/4$ Hex.Hd.Self-tap. Screw	
78-1122	4 Contact Socket			(2 used on 12-2997)	.03
83-2135	4 Lug Terminal Strip	•	114-699	$10-16 \times 3/8 \times 5/16$ Hex Washer Hd.	
83-2216	7 Lug Terminal Strip (2 required)			Self-tap. Screw (4 used on 95-1743)	.03
83 - 2538	3 Lug Terminal Strip		125-96	Strain Relief Grommet (used on 11-148)	.10
83-2639	3 Lug Terminal Strip		136-36	Fuse - 2 Amp	.10

7F20 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
12-2411	Gang Mtg. Bracket (2 used)	.20	73-131	6-32 x 3/8 Slab Hd. Set Screw-Cuppoint	
19-249	Coil Mtg. Clip	.05		(2 Pt. of S-50393)	.04
19-284	Shorting Clip	.10	78-806	7 Contact Wafer Tube Socket (35W4)	.15
20-682	FM Antenna Coil	.25	78-850	9 Contact Molded Tube Socket (12AT7)	.40
22-3	.01 MFD. Ceramic Disc 500V (7 used)	.30	78-869	9 Contact Wafer Tube Socket (19T8)	.25
22-5	100 Mfd. Ceramic Disc - 500V	.25	78-870	7 Contact Wafer Tube Socket (6BJ6)	
22-14	.0047 Mfd. Ceramic Disc - 500V(2 used)			(12AU6) (12BA6-1st I.F.)	.15
22-17	.001 Mfd. Ceramic Disc - 100V	.25	78-871	7 Contact Wafer Tube Socket(12BA6-2nd	
22-18	.0022 Mfd.Ceramic Disc- 500V	.25		I.F.)	.15
22-24	2 x .0047 Mfd. Ceramic Disc - 1000V	.40	78-1099	Connector Socket	.20
22-1766	.68 Mmf. Ceramic - 500V	.20	78-1189	Indicator Light Socket & Wire	
22-1888	.001 Mmf. Ceramic - 500V (4 used)	.25	80-780	Tuning Core Tension Spring (2 used)	.05
22-2370	50 Mmf. Ceramic Disc - 500V	.25	80-1091	Drive Cord Tension Spring	.08
22-2372	22 Mmf. Ceramic Disc - 500V	.25	80-1333	Tuner Arm Stop Spring	.10
22-2549	4 Mmf. Ceramic Disc - 500V	.25	80-1408	Tuner Arm Tension Spring	.10
22-2732	1000 Mmf. Feed Thru - 500V	.30	80-1427	Drive Cord Tension Spring	
22-2780	.1 Mfd. Paper - 200V	.30	83-1640	I.F. Transformer Support Strip (6 used)	.05
22-2792	.047 Mfd. Paper - 200V (3 used)	.30	83-1874	2	.15
22-2939	680 Mmf. Ceramic Disc - 800V	.25	83-2123	Antenna Terminal Strip	.25
22-3039	2 Section Variable	3.50	83-2143	Felt Strip (Drive Cord Spring)	.10
22-3056	Electrolytic 40/150V 80/150V	2.25	83-2307	4 Lug Terminal Strip	.10
22-3231	19 Mmf. Ceramic Disc - 500 V	.25	83-2536	Antenna Mtg. Strip	.03
22-3246	15 Mmf. Ceramic Disc - 500 V (2 used)	.25	83-2639	3 Lug Terminal Strip	.05
26-685	Dial Scale	2.00	83-2673	6 Lug Terminal Strip	.10
52-697	3 Conductor Cable & Socket	.75	83-3344	· · · · · · · · · · · · · · · · · · ·	.05
52-890	2 Conductor Shielded Lead	1.00	83-3351	2 Lug Terminal Strip	.10
52-891	3 Conductor Cable & Plug	1.00	83-2472	Pointer Slide Track	
52-892	Antenna Cable	.25	85-672	Phono-Off-Radio Switch	0.77
54-139	3/8 - 32 x 9/16 Palnut (2 used)	.03	85-673	Bandswitch	3.75
54-268	Tinnerman Speed Nut (6 Mt. 192-296)	.03	86-312	Terminal	.03 .03
54-271	6-32 x 1/4 Palnut (6 used)	.03	93-149	Fibre Washer (2 used on S-49113)	.10
54-504	Tinnerman Speed Nut (7 Mt. 26-682)	.03	94-1035 95-1102	Wood Spacer (2 used on S-49113	3.00
58-238	2 Prong Plug	.10	95-1102 95-1150	3rd I.F. Transformer (B.C.) 1st & 3rd I.F. Transformer (FM)(2 used)	3.50
59-380	Dial Pointer	1.25	95-1150	Discriminator Transformer (FM)	3.50
59-381	Dial Pointer	1.25	95-1250	1st I.F. Transformer (BC)	3.00
63-1744	100 Ohm 1/2W Ins. 20%	.17 .17	95-1250	2nd I.F. Transformer (BC & FM)	3.00
63-1758	220 Ohm 1/2 W Ins. 20% (5 used)	.17	95-1772	Power Transformer	0.00
63-1786	1 K Ohm 1/2W Ins. 20% (2 used)	.17	100-67	Pilot Light Bulb (3 used)	.15
63-1800 63-1828	2200 Ohm 1/2W Ins. 20% 10 K Ohm 1/2W Ins. 20%	.17	103-29	Varicap Silicon Diode	.10
63-1835		.17	105-42	R/C Network	.50
63-1856	15 K Ohm 1/2W Ins. 20% 47 K Ohm 1/2W Ins. 20%	.17	113-10	6-32 x 3/16 Hex.Hd.Mach.Screw	.00
63-1870	100K Ohm 1/2W Ins. 20% (3 used)	.17	110 10	(4 used on 22-3039)	.03
63-1883	220K Ohm 1/2W Ins. 10%	.17	114-77	6-20 x 5/16 x 1/4 AF Hex.Hd. Self-Tap	
63-1884	220K Ohm 1/2W Ins. 10%	.17		Screw (1 used on 83-1874 & 5 used on	
63-1894	390K Ohm 1/2W Ins. 10%	.17		57-3038)	.03
63-1918	1.5 Megohm 1/2W Ins. 10%	.17	114-78	8-18 x 5/16 x 1/4 AF Hex. Hd. Self-Tap	
63-1925	2.2 Megohm 1/2W Ins. 10%	.17		Screw (2 used on ea. S-50547, 50548 &	
63-1926	2.2 Megohii 1/2W Ins. 10% 2.2 Megohii 1/2W Ins. 20% (2 used)	.17		83-3472)	.03
63-1936	3.9 Megohm 1/2W Ins. 10%	.17	114-200	6-32 x 5/16 x 1/4 Hex.Hd.Self-Tap Screw	
63-1940	4.7 Megohm 1/2W Ins. 20% (2 used)	.17		(2 used)	.03
63-2424	39 Ohm 1W WW 10%	.25	114-351	$6-20 \times 1/2 \times 1/4$ AF Hex Hd. Self Tap	
63-4694	820 Ohm 3W Ins. 10%	.45		Screw (4 used)	.03

PART	<u>DESCRIPTION</u>	PRICE	PART	DESCRIPTION	PRICE
114-562	6-1 8 x 1 1/2 x 1/4 AF Hex.Hd.Self-Tap		199-176	Shielded Paper Sleeve	.03
	Scr ew (2 used on S-49113)		199-198	Shielded Paper Sleeve	.05
114-600	6-3 2 x 1/4 Special Hex. Hd. Self-Tap Scre	w	S-13871	FM Detector Coil Assem.	1.00
	(6 umsed)	.03	S-15691	FM Oscillator Coil Assem.	.50
114-688	8-1 8 x 5/16 Hex.Special Washer Hd.Self-		S-16447	Drive Cord & Eyelet Assem. (Gang)	.10
	Tap Screw (3 Mt. 95-1772)	.03	S-44166	Knob & Ring Assem. (Tuning)	.75
125-73	Rubber Grommet (2 used)	.10	S-47939	Knob & Ring Assem. (Radio-Off-Phono	
126-797	Tube Shield (used on 12AT7)	.10		& Bandswitch)	.75
148-149	Turmer Arm	.50	S-49113	Antenna Assem.	2.00
149-64	Irom Core & Spring (2 used)	.75	S-50393	Capacitor Pulley & Cam Assem.	
149-171	Irom Core	.10	S-50547	Pulley & Bracket Assem.	
149-211	Irom Core	.10	S-50548	Pulley & Bracket Assem.	
188-54	Knob Clamping Ring (Pt.of S-44166)	.03	S-50775	Drive Cord & Eyelet Assem. (Pointer)	
188-155	Knob Clamping Ring (Pt.of S-47939)	.05	202-697	FM Instruction Book	.10
188-221	"C" Retaining Ring (Pt. of S-50601)	.04	202-1648	Instruction Book	.40
192-296	Dia 1 Crystal		S-50495	Accessories Kit Assem.	

7F30 CHASSIS PARTS

11-148	PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
15-201 Fuseholder Cap .30 63-1891 330K Ohm 1/2 W Ins. 20% (4 required) .17	11-148	Lin.e Cord & Plug	.90	63-1876	150K Ohm 1/2 W Ins. 10% (2 used)	.17
17-149	15-201	Fuseholder Cap	.30	63-1891	330K Ohm 1/2 W Ins. 20% (4 required)	.17
22-17	17-149	Ca⊳le Clamp	.05	63-1911		
22-2309 330 Mmf. Ceramic -500V. 25 63-4722 63 Ohm 4WWW 5% .65 22-2397 100 Mmf. Disc -500V. 35 78-402 4 Contact Socket 22-27782 .1 Mmfd. Capacitor - 200V. 35 78-755 Octal Tube Socket (5U4GB) 22-2782 .1 Mmfd. Capacitor - 600V. (4 required) .45 78-846 Noval Wafer Tube Socket (12AX7) 22-2795 .04 Mmfd. Capacitor - 200V. 2 required) .25 (2 required) 22-2812 .01 Mmfd. Capacitor - 200V. 30 78-1089 Noval Molded Tube Socket (6BQ5) 22-3106 40 - 40-80 Mmfd. Electrolytic - 450V. 30 78-1089 Noval Molded Tube Socket (6BQ5) 22-3320 100 Mmfd. Capacitor - 200V. 83-2145 5 Lug Terminal Strip (2 required) .15 22-3320 100 Mmfd. Electrolytic - 25V. 83-2145 5 Lug Terminal Strip (2 required) .15 22-871 Shi∈lded Lead 83-2522 6 Lug Terminal Strip (2 required) .05 24-473 Hex_Nut (Mts.62-23) 83-2639 3 Lug Terminal Strip (3 required) .05 24-473 Hex_Nut (Mts.62-23) 83-2639 3 Lug Terminal Strip (2 required) .10 23-1782 820 Ohm 1/2 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 23-1785 1K Ohm 1/2 W Ins. 10% 95-1699 Output Transformer - R.Ch. 95-1699 Output Transformer -	22-14	.0047 Mfd.Disc-500V. (2 required)	.25	63-4417	2K Ohm 3 W Ins. 10%	
22-2397 100 Mmf. Ceramic -500V. 25 63-4722 63 Ohm 4WWW 5% .65 22-2397 100 Mmf. Disc -500V. 30 78-402 4 Contact Socket 22-2782 .1 Mmfd. Capacitor - 600V. (4 required) .45 78-846 Noval Wafer Tube Socket (12AX7) 22-2795 .047 Mfd. Capacitor - 200V. (2 required) .25 (2 required) .25 22-2812 .01 Mfd. Capacitor - 600V25 78-1058 A C Receptacle 22-2812 .01 Mfd. Capacitor - 600V30 78-1089 Noval Molded Tube Socket (6BQ5) (4 required) .22-3106 40 - 40 - 80 Mfd. Electrolytic - 450V30 78-1089 Noval Molded Tube Socket (6BQ5) (4 required) .15 Mfd. Capacitor - 200V30 83-2145 5 Lug Terminal Strip (used on 43-422) .10 Mfd. Electrolytic - 25V33-2145 5 Lug Terminal Strip (2 required) .15 Shielded Lead .33-2839 3 Lug Terminal Strip (2 required) .05 54-473 Hex.Nut (Mts.62-23) .35 Shielded Lead .33-2839 3 Lug Terminal Strip (2 required) .10 63-175 560 Ohm 1/2 W Ins. 10% .86-334 Socket Terminal Strip (2 required) .10 63-1785 1K Ohm 1 W Ins. 10% .86-334 Socket Terminal (12 used in 43-422) .10 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) .95-1699 Output Transformer - L.Ch63-1799 2.2 K Ohm 1/2 W Ins. 10% (2 required) .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap.Screw 63-1841 22K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap03 63-1842 27K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap .03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap .03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	22-17	.00 ☐ Mfd.Disc-1KV.	.25	63-4468	Current Balance Control (2 required)	1.40
22-2777 .22 Mfd. Capacitor - 200V35	22-2309	330 Mmf. Ceramic -500V.	.25	63-4722		.65
22-2782 .1 Mfd. Capacitor - 600V. (4 required) .45	22-2397	100 Mmf. Disc -500V.	.30	78-402	4 Contact Socket	
22-2795 .047 Mfd. Capacitor - 200V. (2 required) .25	22-2777	.22 Mfd. Capacitor - 200V.	.35	78-755	Octal Tube Socket (5U4GB)	
22-2807 .02 Mfd. Capacitor - 200V25 78-1058 A C Receptacle 22-2812 .01 Mfd. Capacitor - 600V30 78-1089 Noval Molded Tube Socket (6BQ5) 22-3106 40- 40-80 Mfd. Electrolytic - 450V.	22-2782	.1 Mfd. Capacitor - 600V. (4 required)	.45	78-846	Noval Wafer Tube Socket (12AX7)	
22-2812 .01 Mfd. Capacitor - 600 V30 78-1089 Noval Molded Tube Socket (6BQ5) (4 required) 22-3106 40- 40-80 Mfd. Electrolytic - 450 V83-1475 Insulating Strip (used on 43-422) 22-3320 .00 Mfd. Electrolytic - 25 V83-2145 5 Lug Terminal Strip (2 required) .15 33-2145 5 Lug Terminal Strip (2 required) .15 52-871 Shi⊜lded Lead .83-2522 6 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) .83-2639 3 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) .83-2639 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 ★ Ohm 1 W Ins. 10% .86-334 Socket Terminal (12 used in 43-422) .10 63-1785 1k Ohm 1/2 W Ins. 10% .93-1036 Lockwasher (Mts. 62-23) .03 63-1785 1k Ohm 1/2 W Ins. 10% (2 required) .95-1699 Output Transformer - L.Ch63-1799 2.2 ★ Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw (3-1817 5/4 EW Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22 ★ Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap Screw (4 used on 95-1785) .03 63-1862 68 ★ Ohm 1/2 W Ins. 10% (4 required) .17 114-699 Strain Relief Grommet .10	22-2795	.047 Mfd. Capacitor - 200V. (2 required)	.25		(2 required)	
22-3106 40- 40-80 Mfd. Electrolytic - 450V. 22-3236 .00 15 Mfd. Capacitor - 200V. 22-3320 100 Mfd. Electrolytic - 25V. 33-2145 5 Lug Terminal Strip 43-422 Soc ket Terminal Housing 33-2216 7 Lug Terminal Strip (2 required) 52-871 Shi⇔lded Lead 33-2522 6 Lug Terminal Strip (10 required) 52-872 Shi⇔lded Lead 33-2522 6 Lug Terminal Strip (3 required) 54-473 Hex.Nut (Mts.62-23) 54-473 Hex.Nut (Mts.62-23) 63-1573 2.7 K Ohm 1 W Ins. 10% 63-1573 2.7 K Ohm 1/2 W Ins. 10% 63-1775 560 Ohm 1/2 W Ins. 10% 63-1785 1K Ohm 1/2 W Ins. 10% 63-1785 1K Ohm 1/2 W Ins. 10% 63-1786 1K Ohm 1/2 W Ins. 20% (4 required) 63-1786 1K Ohm 1/2 W Ins. 10% (5 required) 63-1867 5.6 K Ohm 1/2 W Ins. 10% 63-1868 3.8 K Ohm 1/2 W Ins. 10% 63-1869 2.2 K Ohm 1/2 W Ins. 10% 63-1860 63-1864 22K Ohm 1/2 W Ins. 10% 63-1865 27K Ohm 1/2 W Ins. 10% 63-1865 27K Ohm 1/2 W Ins. 10% 63-1866 3.8 K Ohm 1/2 W Ins. 10% 63-1867 5.6 K Ohm 1/2 W Ins. 10% 63-1868 63-1868 Ohm 1/2 W Ins. 10% 63-1869 27K Ohm 1/2 W Ins. 10% 63-1860 63-1865 66K Ohm 1/2 W Ins. 10% 63-1860 63-1866 66K Ohm 1/2 W Ins. 10% 63-1860 66K Ohm 1/2 W Ins. 10%	22-2807	.022 Mfd. Capacitor - 200V.	.25	78-1058	A C Receptacle	
22-3236 .00 15 Mfd. Capacitor - 200 V. 83-1475 Insulating Strip (used on 43-422) 22-3320 100 Mfd. Electrolytic - 25 V. 83-2145 5 Lug Terminal Strip 43-422 Soc ket Terminal Housing 83-2216 7 Lug Terminal Strip (2 required) .15 52-871 Shielded Lead 83-2522 6 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts. 62-23) 83-2673 6 Lug Terminal Strip (3 required) .10 62-23 Fuse Receptacle 83-2898 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1786 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-699 Output Transformer 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap. Screw (4 used on 95-1698 & 1699) .03 63-1862 68 K Ohm 1/2 W Ins. 10% .17 125-96 Strain Relief Grommet .10	22-2812	.01 Mfd. Capacitor - 600V.	.30	78-1089	Noval Molded Tube Socket (6BQ5)	
22-3320 100 Mfd. Electrolytic - 25V. 83-2145 5 Lug Terminal Strip 43-422 Soc ket Terminal Housing 83-2216 7 Lug Terminal Strip (2 required) .15 52-871 Shi dedd Lead 83-2522 6 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) 83-2639 3 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) 83-2673 6 Lug Terminal Strip (2 required) .10 62-23 Fuse Receptacle 83-2898 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1796 1K Ohm 1/2 W Ins. 10% (5 required) 95-1699 Output Transformer - R.Ch. 63-1806 3.3 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1807 5.6 K Ohm 1/2 W Ins. 10% .17 114-78 8-18 x 5/16 x 1/4 Hex. Hd.Self-Tap.Screw (2 used on ea. 95-1698 & 1699) .03 63-1841 22K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex. Washer Hd.Self-Tap 63-1845 27K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	22-3106	40- 40-80 Mfd. Electrolytic - 450V.			(4 required)	
43-422 Soc ket Terminal Housing 83-2216 7 Lug Terminal Strip (2 required) .15 52-871 Shi⊕lded Lead 83-2522 6 Lug Terminal Strip (3 required) .05 52-872 Shi⊕lded Lead 83-2639 3 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) 83-2639 6 Lug Terminal Strip (3 required) .10 62-23 Fuse Receptacle 83-2898 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) 63-1782 820 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw 63-1841 22 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1845 27 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	22-3236	.00 15 Mfd. Capacitor - 200 V.		83-1475	Insulating Strip (used on 43-422)	
43-422 Soc ket Terminal Housing 52-871 Shi∈lded Lead 83-2522 6 Lug Terminal Strip (2 required) 52-872 Shi∈lded Lead 83-2639 3 Lug Terminal Strip (3 required) 52-873 Hex_Nut (Mts.62-23) 62-23 Fuse Receptacle 83-2898 3 Lug Terminal Strip (2 required) 63-1573 2.7 K Ohm 1 W Ins. 10% 63-1775 560 Ohm 1/2 W Ins. 10% 63-1782 820 Ohm 1/2 W Ins. 10% 63-1785 1K Ohm 1/2 W Ins. 10% 63-1786 1K Ohm 1/2 W Ins. 20% (4 required) 63-1786 3.3 K Ohm 1/2 W Ins. 20% (4 required) 63-1817 5.6 K Ohm 1/2 W Ins. 10% 63-1841 22 K Ohm 1/2 W Ins. 10% 63-1845 2.7 K Ohm 1/2 W Ins. 10% 63-1846 68 K Ohm 1/2 W Ins. 10% 63-1866 68 K Ohm 1/2 W Ins. 10% 63-1866 68 K Ohm 1/2 W Ins. 10% 64-20 Strain Relief Grommet 7 Lug Terminal Strip (2 required) 83-2522 6 Lug Terminal Strip (3 required) 83-2639 3 Lug Terminal Strip (2 required) 83-2639 3 Lug Terminal Strip (2 required) 83-2898 3 Lug Terminal Strip (2 required) 84-280	22-3320	100 Mfd. Electrolytic - 25V.		83-2145	5 Lug Terminal Strip	
52-872 Shielded Lead 83-2639 3 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) 83-2673 6 Lug Terminal Strip .10 62-23 Fuse Receptacle 83-2898 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1789 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer - R.Ch. 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27 K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17	43-422	Soc ket Terminal Housing		83-2216		.15
52-872 Shi∈lded Lead 83-2639 3 Lug Terminal Strip (3 required) .05 54-473 Hex.Nut (Mts.62-23) 83-2673 6 Lug Terminal Strip .10 62-23 Fuse Receptacle 83-2898 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw (2 used on ea. 95-1698 & 1699) .03 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27 K Ohm 1/2 W Ins. 10% (4 required) .17 Screw (4 used on 95-1785) .03 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	52-871	Shi∈lded Lead		83-2522	6 Lug Terminal Strip	.10
62-23 Fusse Receptacle 83-2898 3 Lug Terminal Strip (2 required) .10 63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw (3-1817 5.6 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22 C Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27 C Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68 C Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	52-872	Shielded Lead		83-2639		.05
63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1786 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw 63-1817 5.6 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex. Washer Hd.Self-Tap 63-1845 27 K Ohm 1/2 W Ins. 10% .17 114-699 Screw (4 used on 95-1785) .03 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	54-473	Hex≡.Nut (Mts.62-23)		83-2673	6 Lug Terminal Strip	.10
63-1573 2.7 K Ohm 1 W Ins. 10% 86-334 Socket Terminal (12 used in 43-422) .10 63-1775 560 Ohm 1/2 W Ins. 10% 93-1036 Lockwasher (Mts. 62-23) .03 63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1786 1K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw (3-1817 5.6 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap	62-23	Fus≡e Receptacle		83-2898	3 Lug Terminal Strip (2 required)	.10
63-1782 820 Ohm 1/2 W Ins. 10% 93-1179 Rubber Washer (Mts. 62-23) .03 63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 95-1698 Output Transformer - L.Ch. 63-1786 1K Ohm 1/2 W Ins. 20% (4 required) 95-1699 Output Transformer - R.Ch. 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw 63-1817 5.6 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27 K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1573	2.7 K Ohm 1 W Ins. 10%		86-334		.10
63-1785 1K Ohm 1/2 W Ins. 10% (2 required) 63-1786 1K Ohm 1/2 W Ins. 20% (4 required) 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) 63-1817 5.6 K Ohm 1/2 W Ins. 10% 63-1841 22 K Ohm 1/2 W Ins. 10% 63-1845 27 K Ohm 1/2 W Ins. 10% 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) 63-187 5.6 K Ohm 1/2 W Ins. 10% 63-1886	63-1775	560 Ohm 1/2 W Ins. 10%		93-1036	Lockwasher (Mts. 62-23)	
63-1786 1K Ohm 1/2 W Ins. 20% (4 required) 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) 63-1817 5.6 K Ohm 1/2 W Ins. 10% 63-1841 22 K Ohm 1/2 W Ins. 10% 63-1845 27 K Ohm 1/2 W Ins. 10% 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) 63-187 5.6 K Ohm 1/2 W Ins. 10% 63-1886 68 K Ohm 1/2 W Ins. 10% 63-1869 5.6 K Ohm 1/2 W Ins. 10% 63-1869 0.03 63-1869 0.04 put Transformer - R.Ch. 95-1785 Power Transformer - R.Ch.	63-1782			93-1179	Rubber Washer (Mts. 62-23)	.03
63-1786 1K Ohm 1/2 W Ins. 20% (4 required) 63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) 63-1817 5.6 K Ohm 1/2 W Ins. 10% 63-1841 22 K Ohm 1/2 W Ins. 10% 63-1845 27 K Ohm 1/2 W Ins. 10% 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) 63-187 5.6 K Ohm 1/2 W Ins. 10% 63-1886 68 K Ohm 1/2 W Ins. 10% 63-1869 5.6 K Ohm 1/2 W Ins. 10% 63-1869 0.03 63-1869 0.04 put Transformer - R.Ch. 95-1785 Power Transformer - R.Ch.	63-1785	1K Ohm 1/2 W Ins. 10% (2 required)		95-1698	Output Transformer - L.Ch.	
63-1799 2.2 K Ohm 1/2 W Ins. 10% (5 required) .17 95-1785 Power Transformer 63-1806 3.3 K Ohm 1/2 W Ins. 10% (2 required) .17 114-78 8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw 63-1817 5.6 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27 K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1786	1K Ohm 1/2 W Ins. 20% (4 required)		95-1699	Output Transformer - R.Ch.	
63-1817 5.6 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22 K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27 K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68 K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1799		.17	95-1785	Power Transformer	
63-1817 5.6 K Ohm 1/2 W Ins. 10% .17 (2 used on ea. 95-1698 & 1699) .03 63-1841 22K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1806	3.3 K Ohm 1/2 W Ins. 10% (2 required)	.17	114-78	8-18 x 5/16 x 1/4 Hex.Hd.Self-Tap.Screw	
63-1841 22K Ohm 1/2 W Ins. 10% .17 114-699 10-16 x 3/8 Hex.Washer Hd.Self-Tap 63-1845 27K Ohm 1/2 W Ins. 10% .17 Screw (4 used on 95-1785) .03 63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1817	5.6 K Ohm 1/2 W Ins. 10%	.17		(2 used on ea. 95-1698 & 1699)	.03
63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1841	22K Ohm 1/2 W Ins. 10%	.17	114-699	10-16 x 3/8 Hex. Washer Hd. Self-Tap	
63-1862 68K Ohm 1/2 W Ins. 10% (4 required) .17 125-96 Strain Relief Grommet .10	63-1845	27K Ohm 1/2 W Ins. 10%	.17		Screw (4 used on 95-1785)	.03
	63-1862	68K Ohm 1/2 W Ins. 10% (4 required)	.17	125-96	Strain Relief Grommet	.10
	63-1873		.17	136-31	Fuse - 4 Amp - Type 3 AG	.25

7F31 CHASSIS PARTS

PART	<u>DESCRIPTION</u>	PRICE	PART	DESCRIPTION	PRICE
11-149	Line Cord & Plug	1.00	22-3099	40-70-80 Mfd. Electrolytic - 450V.	6.50
15-201	Fus-eholder Cap	.30	22-3320	100 Mfd. Electrolytic - 25V.	
17-149	Cable Clamp	.05	43-420	Socket Terminal Housing	.35
22-12	.001_5 Mfd.Disc - 500V.	.25	43-422	Socket Terminal Housing	.35
22-14	.004-7 Mfd.Disc - 500V. (2 required)	.25	52-871	Shielded Lead	.50
22-17	.001 Mfd.Disc - 1KV	.25	52-872	Shielded Lead	.50
22-2309	330 Mmf. Ceramic - 500V.	.25	54-473	Hex Nut (Mts. 62-23)	.05
22-2376	47 Mmf. Disc - 500V.	.25	57-3048	Socket Mounting Plate	
22-2774	.22 Mfd. Capacitor - 200V.	.35	62-23	Fuse Receptacle	.50
22-2781	.1 MIfd. Capacitor - 400V.	.35	63-1775	560 Ohm 1/2 W Ins. 10%	.17
22-2782	.1 MIfd. Capacitor - 600V. (4 required)	.45	63-1782	820 Ohm 1/2 W Ins. 10%	.17
22-2795	.047 Mfd. Capacitor - 200V. (3 required)	.25	63-1785	1K Ohm 1/2 W Ins. 10% (2 required)	.17
22-2807	.022 Mfd. Capacitor - 200V.	.25	63-1786	1K Ohm 1/2 W Ins. 20% (4 required)	.17
22-2812	.01 Mfd. Capacitor - 600V.	.30	63-1799	2.2K Ohm 1/2 W Ins. 10% (5 required)	.17

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
63-1803	1.7K Ohm 1/2 W Ins. 10%	.17			
63-1806	3.3K Ohm 1/2 W Ins. 10% (2 required)	.17	78-1089	Noval Molded Tube Socket (4 required)	.25
63-1817	5.6K Ohm 1/2 W Ins. 10%	.17	83-1475	Insulating Strip	.03
63-1824	8.2K Ohm 1/2 W Ins. 10%	.17	83-2145	5Lig Terminal Strip	.10
63-1841	22K Ohm 1/2 W Ins. 10%	.17	83-2216	7Lug Terminal (7 required)	.15
63-1845	27K Ohm 1/2 W Ins. 10% (2 required)	.17	83-2898	3Lug Terminal Strip (2 required)	.10
63-1862	68K Ohm 1/2 W Ins. 10% (4 required)	.17	86-334	Socket Terminal (6 used in 43-420 &	
63-1873	120K Ohm 1/2 W Ins. 10% (4 required)	.17		12 in 43-422)	.10
63-1876	150K Ohm 1/2 W Ins. 10% (2 required)	.17	93-1179	Rubber Washer (Mts. 62-23)	.03
63-1891	330K Ohm 1/2 W Ins. 20% (4 required)	.17	93-1036	Lockwasher	
63-1911	1 Megohm 1/2 W Ins. 10%	.17	95-1691	Output Transformer	6.00
63-4405	560 Ohm 5 W WW 10%	.75	95-1692	Output Transformer	6.00
63-4406	800 Ohm 8W WW 10%	.80	95-1776	Power Transformer	
63-4630	2750 Ohm 10W 10%	.90	114-78	$8-18 \times 5/16 \times 1/4$ Hex.Hd.Self-Tap.	
63-4722	63 Ohm 4W WW 5%	.65		Screw (2 Mt.ea. 95-1691 & 1692)	.03
63-4468	Current Balance Control (2 required)	1.40	114-699	10-16 x 3/8 Hex. Washer Hd. Self-Tap.	
78-402	4 Contact Socket	.15		Screw (4 used on 95-1638)	.03
78-755	Octal Tube Socket	.20	125-96	Strain Relief Grommet (used on 11-149)	
78-846	Noval Wafer Tube Socket (2 required)	.35	136-31	Fuse - 4 Amp Type 3AG	
78-1058	A.C. Receptacle		199-213	Shielded Paper Sleeve	

7F33 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-149	Line Cord & Plug	1.00	63-1862	68K Ohm 1/2 W Ins. 10% (4 required)	.17
15-201	Fuseholder Cap	.30	63-1873	120K Ohm 1/2 W Ins. 10% (4 required)	.17
17-149	Cable Clamp	.05	63-1876	150K Ohm 1/2 W Ins. 10% (2 required)	.17
22-12	.0015 Mfd. Disc - 500 V.	.25	63-1891	330K Ohm $1/2$ W Ins. 20% (4 required)	.17
22-14	.0047 Mfd. Disc - 500V.	.25	63-1911	1 Megohm $1/2$ W Ins. 10%	.17
22-17	.001 Mfd. Disc - 1KV	.25	63-4405	560 Ohm 5W WW 10%	.75
22-2309	330 Mmf. Ceramic - 500V.	.25	63-4406	800 Ohm 8W WW 10%	.80
22-2376	47 Mmf. Disc - 500V.	.25	63-4630	2750 Ohm 10W Ins. 10%	.90
22-2777	.22 Mfd. Capacitor - 200V.	.35	63-4722	63 Ohm 4W WW 5%	.65
22-2781	.1 Mfd. Capacitor - 400V.	.35	63-4468	Current Balance Control (2 required)	1.40
22-2782	.1 Mfd. Capacitor - 600V. (4 required)	.45	78-402	4 Contact Socket	.15
22-2795	.047 Mfd. Capacitor - 200V. (2 required)	.25	78-755	Octal Tube Socket (5U4GB)	.20
22-2807	.022 Mfd. Capacitor - 200V.	.25	78-846	Noval Wafer Tube Socket (2 required)	
22-2812	.01 Mfd. Capacitor - 600V.	.30		(12AX7)	.35
22-2825	.0047 Mfd. Capacitor - 200V.	.25	78-1058	A C Receptacle	.30
22-3099	40-70-80 Mfd. Electrolytic - 450 V.	6.50	78-1089	Noval Molded Tube Socket	
22-3320	100 Mfd. Electrolytic - 25V.			(4 required) (6BQ5)	.15
43-420	Socket Terminal Housing	.35	83-1475	Insulating Strip	.03
43-422	Socket Terminal Housing	.35	83-2639	3 Lug Terminal Strip (2 required)	.05
52-871	Shielded Lead	. 50	83-2216	7 Lug Terminal (6 required)	.15
52-872	Shielded Lead	.50	83-2898	3 Lug Terminal Strip (2 required)	.10
54-473	Hex Nut (Mts. 62-23)	.05	86-334	Socket Terminal (6 used in 43-420 &	
57-3048	Socket Mounting Plate			12 in 43-422)	.10
62-23	Fuse Receptacle	.50	93-1036	Lockwasher (Mts. 62-23)	
63-1775	560 Ohm 1/2 W Ins. 10%	.17	93-1179	Rubber Washer (Mts. 62-23)	.03
63-1799	2.2 K Ohm 1/2 W Ins. 10%	.17	95-1698	Output Transformer	6.00
63-1782	820 Ohm $1/2$ W Ins. 10%	.17	95-1699	Output Transformer	6.00
63-1785	1K Ohm $1/2$ W Ins. 10% (2 required)	.17	95-1776	Power Transformer	
63-1786	1K Ohm $1/2$ W Ins. 20% (4 required)	.17	114-78	$8-18 \times 5/16 \times 1/4$ Hex.Hd.Self-Tap.	
63-1799	2.2K Ohm $1/2$ W Ins. $10%$ (4 required)	.17		Screw (2 Mt.ea. 95-1691 &1692)	.03
63-1806	3.3K Ohm $1/2$ W Ins. $10%$ (2 required)	.17	114-699	10-16 x 3/8 Hex Washer Hd.Self-Tap.	
63-1817	5.6K Ohm 1/2 W.Ins. 10%	.17		Screw (4 used on 95-1638)	.03
63-1841	22K Ohm 1/2 W Ins. 10%	.17	125-96	Strain Relief Grommet (used on 11-149)	.10
63-1845	27K Ohm 1/2 W Ins. 10%	.17	136-31	Fuse - 4 Amp type 3AG	.25

9F24 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
12-2386 12-2411 12-2443 12-2637	Bandswitch Support Bracket (Pt. of 85-640) Capacitor Mounting Bracket Bandswitch Support Bracket Dial Scale Extension Bracket	.20 .20 .20 .10	12-3002 12-3009 12-3019 12-3030 17-149	Pointer Mtg.Bracket (3 required) Dial Scale Support Bracket (2 required) Cover Bracket (Left) Cover Bracket (Right)	.05
12-2661 12-2676	Plate Support Bracket Background Support Bracket	.10	17-149 19-249	Cable Clamp Coil Mounting Clip	.05
12-2807	Mtg. Bracket (43-332)	.10	20-355	FM Antenna Coil	.20

PART	DES_CRIPTION	PRICE	PART	DESCRIPTION	PRICE
22-3	.01 Mfd. Disc - 500V. (9 required)	.30	63-1880	180K Ohm 1/2 W Ins. 10% (2 required)	.17
22-5	100 Mmf. Disc - 500V. (2 required)	.25	63-1882	220K Ohm 1/2 W Ins. 5%	.34
22~14	.00417 Mfd. Disc - 500V.(5 required)	.25	63-1883	220K Ohm 1/2 W Ins. 10%	.17
22-16	470 Mmf. Disc - 500V.	.25	63-1884	220K Ohm $1/2$ W Ins. 20% (2 required)	.17
22-17	.00 Mfd. Disc - 1KV	.25	63-1889	330K Ohm 1/2 W Ins. 5%	.34
22-18	.0022 Mfd. Disc - 500V.(6 required)	.25	63-1897	470K Ohm 1/2 W Ins. 10%	.17
22-1669	100 Mmf. Ceramic - 500V.	.25	63-1904	680K Ohm 1/2 W Ins. 10%	.17
22-1852	7.5 Mmf. Ceramic - 500V.	.25	63-1911	1 Megohm 1/2 W Ins. 10%	.17
22-1888	.00 Mfd. Ceramic - 500 V. (2 required)	.25	63-1912	1 Megohm 1/2 W Ins. 10%	.17
22-2370	50 Mmf. Disc - 500V. (2 required)	.25	63-1925	2.2 Megohm $1/2$ W Ins. 10% (2 required)	.17
22-2372	22 Mmf. Disc - 500V.	.25	63-1926	2.2 Megohm 1/2 W Ins. 20% (3 required)	.17
22-2703	220 Mmf. Ceramic - 500V. (3 required)	.25	63-1940	4.7 Megohm 1/2 W Ins. 20% (2 required)	.17
22-2732	100 Mmf. Feed-Thru - 500 V. (4 required	.30	63-1960	15 Megohm $1/2$ W Ins. 10%	.17
22-2780	.1 Mfd. Capacitor - 200V. (2 required)	.30	63-4410	Dual Tone Control - Treble	2.75
22-2792	.047 Mfd.Capacitor - 200V. (4 required)	.30	63-4414	2K Ohm 10W 10%	.90
22-2793	.047 Mfd. Capacitor - 400V.	.35	63-4460	Dual Bass Tone Control & Switch	4.50
22-2794	.047 Mfd. Capacitor - 600V.	.35	63-4631	Dual Loudness Control	
22-2807	.022 Mfd. Capacitor - 200V.(2 required)	.25	63-4632	3 Section Balance Control	
22-2809	.022 Mfd.Capacitor - 600V.	.30	63-4725	Dual Presence Control	
22-2811	.01 ☐Mfd.Capacitor - 400V.	.25	73-115	8-32 x 3/8 Slab Hd.Set Screw-Cuppoint	
22-2819	.006 Mfd.Capacitor - 200V.(2 required)	.30		(2 Pt. of S-40695)	.04
22-2827	.004-7 Mfd.Capacitor - 600V.		78-788	Noval Wafer Socket (2 required)	40
22-2831	.003=3 Mfd.Capacitor - 200V.(2 required)		#0.050	(6CG7) 12AU7)	.40
22-2863	33 № mf. Disc - 500V.	.25	78-850	Noval Molded Socket (2 required)	
22-2927	56 Mmf. Disc - 500V.	.25		(12AT7)	
22-2939	680 Mmf. Disc - 500V. (5 required)	.25	78-953	Noval Wafer Socket (6T8)	.15
22-2944	3 S⇔ction Variable	4.25	78-1073	Wafer Socket (3 required) (6BAG-lst I.F.)	
22-2976	220 Mmf. Disc - 500 V.	.30		(6BJ6) (6AU6)	
22-3031	.82 Mmf. Gimmick - 500V.		78-1099	3 Contact Socket	.20
22-3139	20 Mmf. Disc - 500V.		78-1119	Dual Pilot Light Socket & Wire	.60
22-3231	19 M mf. Disc - 500 V.	.25	78-1122	4 Contact Socket	.15
22-3302	10 Mfd. Electrolytic - 400 V.	1.75	78-1143	Wafer Socket (6BA6 - 2nd I.F.)	.20
26-684	Dial_Scale		78-1207	Dual Pilot Light Socket & Wire	
43-417	Sock≤et Terminal Housing (Male)	.25	80-69	Drive Cord Tension Spring(Pt. of S-45586)	
43-419	Socket Terminal Housing (Male)	.35	80-209	Drive Cord Tension Spring(Pt. of S-40013)	
43-332	Socket Housing	.15	80-444	Tuner Arm Tension Spring	.05
44-33	Con_nection Jack (2 Pt. of S-44775)	.15	80-780	Iron Core Tension Spring (2 required)	.05
52-928	2 Conductor Shielded Lead		80-1091	Dial Cord Tension Spring(Pt. of S-44151)	.08
54-139	3/8 - 32 x 9/16 Palnut (1 Mts.ea.63-4410	,	80-1142	Ground Spring	.20
	446C, 4631, 4632 & 4725)	.03	80-1140	Drive Cord Tension Spring(1 Pt. of ea.	40
54 - 271	6-32 x 1/4 Palnut (2 used on 95-1150 &		00 4000	S-50776)	.10
	1 ea. on S-44785, 95-1102, 95-1153 &		80-1333	Tuner Arm Stop Spring	.10
	95-1251)	.03	83-1475	Armite Strip	.03
57-3035	Ton e, Presence Control Escutcheon		83-1884	Antenna Terminal Strip	.30
57-3036	Con trol Escutcheon Mtg. Plate		83-2132	Single Lug Terminal Strip	.05
59-379	Dia E Pointer		83-2135	4 Lug Terminal Strip (2 required)	.10
59-382	Tremble Indicator Pointer		83-2307	4 Lug Terminal Strip (2 required)	.10
59-383	Pre sence Indicator Pointer		83-2522	6 Lug Terminal Strip	.10
59-384	Bas≤s Indicator Pointer		83-2612 83-2617	2 Lug Terminal Strip (2 required) 6 Lug Terminal Strip	.05 .10
63-1573	2.7K Ohm 1W Ins. 10%	.25	83-2618	8 Lug Terminal Strip	.10
63-1723	33 Ohm 1/2 W Ins. 20%	.17	83-2627	2 Lug Terminal Strip	.10
63-1730	47 Ohm 1/2 W Ins. 20%	.17	83-2628	Single Lug Terminal Strip	
63-1744	100 Ohm 1/2 W Ins. 20%	.17	83-2639	3 Lug Terminal Strip	.05
63-1757	220 Ohm 1/2 W Ins. 10%	.17	83-2712	Terminal Strip	.20
63-1758	220 Ohm 1/2 W Ins. 20% (3 required)	.17	83-2963	4 Lug Terminal Strip	.10
63-1772	470 Ohm 1/2 W.Ins. 20%	.17	83-2964	6 Lug Terminal Strip	.10
63-1779	680 Ohm 1/2 W Ins. 20%	.17	83-3007	Insulating Strip (Pt. of S-44785)	.05
63-1785	1K \bigcirc hm 1/2 W Ins. 10%	.17	83-3353	2 Lug Terminal Strip (Pt. of S-41812)	.10
63-1786	1K Ohm 1/3 W Ins. 20%	.17	83-3477	8 Lug Terminal Strip	.10
63-1796	1.8K Ohm 1/2 W Ins. 10%	.17	83-3523	4 Lug Terminal Strip	
63-1799	2.2K Ohm $1/2$ W Ins. $10%$ (2 required)	.17	85-640	Bandswitch	9.00
63-1800	2.2KS Ohm 1/2 W Ins. 20%	.17	85-676	Monaural-Stereo Switch	0.00
63-1803	2.7K Ohm 1/2 W Ins. 10% (2 required)	.17	86-303	Terminal (3 required)	.04
63-1827	10K Ohm 1/2 W Ins. 10% (2 required)	.17	86-334	Socket Terminal (6 used in 43-417 &	.01
63-1835	15K Ohm 1/2 W Ins. 20%	.17	00-004	11 used in 43-419)	.10
63-1837	18K Ohm 1/2 W Ins. 5%	.34	93-1310	Steel Washer	
63-1842	22K Ohm $1/2$ W Ins. $20%$.17	93-1359	Felt Washer (2 required)	.03
63-1844	27K Ohm 1/2 W Ins. 5%	.34	94-946	R.F. Plate Mounting Bushing (4 required)	.03
63-1855	47K Ohm 1/2 W Ins. 10%	.17	95-1102	3rd I.F. Transformer (BC)	3.00
63-1856	47K Ohm 1/2 W Ins. 10% 47K Ohm 1/2 W Ins. 20%	.17	95-1150	1st & 3rd I.F.Transformer-FM	0.00
63-1859	56K Ohm 1/2 W Ins. 10%	.17	00 1100	(2 required)	3.50
63-1862	68K Ohm 1/2 W Ins. 10% (3 required)	.17	95-1153	Discriminator Transformer (FM)	3.50
63-1866	82K Ohm 1/2 W Ins. 10% (3 required)	.17	95-1251	2nd I.F. Transformer (FM & BC)	3.00
63-1869	100 F≼ Ohm 1/2 W Ins. 10% (2 required)	.17	95-1549	1st I.F.Transformer (BC)	1.50
63-1870	10014 Ohm 1/2 W list 10% (2 required)	.17	100-221	Pilot Light Bulb - type #45	.15
63-1876	150K Ohm 1/2 W Ins. 10% (5 required)	.17	105-42	R/C Network	.50
-5 -010			100-14	AV/ O ATOUROUS IS	.00

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
112-793	6-20 x 1/4 Phils.Rd.Hd.Self-Tap.		126-956	Pilot Light Shield (2 required)	
	Screw (2 used on 85-676)		148-149	Tuner Arm	.50
112-1327	8-18 x 5/16 Phils.Rd.Hd.Self-Tap.		149-64	Iron Core & Spring (2 required)	.75
	Screw (joins 12-2807 & 83-3523)	.03	149-211	Iron Core (1 Pt. of ea. S-41087 & 41088)	.10
112-1328	6-20 x 1/2 Phils.Rd.Hd.Self-Tap.		159-115	Plug Button	
	Screw (5 required)	.03	188-148	Retaining Ring (2 used on S-44153)	
113-8	$6-32 \times 1/4 \times 1/4$ Hex.Hd.Mach.Screw-		188-177	Clamping Ring (1 Pt. of ea. S-50453)	.03
	lockwasher Att. (6 required)	.03	188-221	Retaining Ring (Pt. of S-44244)	.04
113-10	$6-32 \times 3/16 \times 1/4$ Hex.Hd.Mach.Screw		S-15691	F M Oscillator Coil	. 50
	lockwasher Att. (4 used on 22-2944)	.03	S-15743	F M Detector Coil	.80
114-78	$8-18 \times 5/16 \times 1/4$ Hex.Hd.Self-tap.		S-18812		.80
	Screw (1 used on 12-2676, 2 used on		S-40013		.15
	ea. 12-2661 & 12-3009 & 3 on S-50455)	.03	S-40695	37	1.25
114-180	$6-20 \times 1/4 \times 1/4 \text{ Hex.Hd.Self-tap.}$		S-41087	Broadcast Oscillator Coil	1.00
	Screw (used on S 44785)	.03	S-41088		1.00
114-200	$6-32 \times 5/16 \times 1/4$ Jex.Hd.Self-Tap.		S-41812	· · · · · · · · · · · · · · · · · · ·	.25
	Screw (2 required)	.03	S-44151	Drive Cord & Eyelet Assem. =	
114-643	$6-20 \times 5/8 \times 1/4$ Hex.Hd.Self-tap.			Dial Pointer	.15
	Screw(4 required)	.03	S-44153	Pulley & Shaft Assem.	.60
114-652	8-18 x $5/16$ x $1/4$ Hex.Hd.Self-Tap.		S-44244	3	.75
	Screw (2 used on S-50452)	.03	S-44775		.75
114-717	$4-24 \times 7/32 \times 3/16$ Hex.Hd.Self-Tap.		S-44785	, , ,	
	Screw		S-45586	Drive Cord & Eyelet AssemTuning	.20
125-17	Rubber Grommet (4 required)	.03	S-50452		
125-73	Rubber Grommet (2 required)	.10	S-50453	Pulley & Ring Assem.(3 required)	
126-797	Tube Shield	.10		(Presence & Tone Control)	
126-959	Pilot Light Shield (2 required)		S-50455	Plate, Strip, Bushing & Stud Assem.	

9F25 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
12-2386	Bandswitch Support Bracket		22-2927	56 Mmf. Disc - 500V.	.25
12 4000	(Pt. of 85-640)	.20	22-2939	680 Mmf. Disc - 500V. (3 required)	.25
12-2411	Capacitor Mounting Bracket	.20	22-2944		4.25
12-2443	Bandswitch Support Bracket		22-2976	220 Mmf. Disc - 500V.	.30
22 2120	(Pt. of 85-640)	.20	22-3031	.82 Mmf. Gimmick - 500 V.	.25
12-2637	Dial Scale Extension Bracket	.10	22-3231	19 Mmf. Disc - 500V.	.25
12-2661	Plate Support Bracket	.10	22-3255	330 Mmf. Disc - 500V. (2 required)	.25
12-2676	Background Support Bracket	.05	22-3302	10 :fd. Electrolytic - 400V.	1.75
12-2807	Mounting Bracket (Mts. 43-332)	.10	26-684	Dial Scale	
12-3002	Pointer Mounting Bracket (3 required)		43-332	Socket Housing	.15
12-3009	Dial Scale Support Bracket		43-417	Socket Terminal Housing (Male)	.25
12-3019	Cover Bracket (Left)		43-419	Socket Terminal Housing (Male)	.35
12-3030	Cover Bracket (Right)		44-33	Connector Jack (2 Pt. of S-44775)	.15
17-149	Cable Clamp	.05	52-870	2 Conductor Shielded Lead	.65
19-249	Coil Mounting Clip (2 required)	.05	54-139	$3/8 \times 32 \times 9/16$ Palnut (1 Mts.ea.	
20-355	F M Antenna Coil	.20		63-4410, 4460, 4631, 4632 & 4725)	.03
22-3	.01 Mfd.Disc - 500V. (9 required)	.30	54-271	$6-32 \times 1/4$ Palnut (1 used on ea.	
22-5	100 Mmf. Disc - 500V. (2 required)	.25		S-44785, 95-1102, 95-1153 & 1251 &	
22-13	.0033 Mfd. Disc - 500V.(2 required)			2 on 95-1150)	.03
22-14	.0047 Mfd. Disc - 500V.(4 required)	.25	57-3035	Tone-Presence Control Escutcheon	
22-16	470 Mmf.Disc -500V.	.25	57-3036	Control Escutcheon Mtg. Plate	
22-17	.001 Mfd. Disc - 1 KV	.25	59-382	Treble Indicator Pointer	
22-18	.0022 Mfd.Disc - 500V. (5 required)	.25	59-383	Presence Indicator Point er	
22-1483	20 Mfd. Electrolytic - 10V.	1.00	59-384	Bass Indicator Pointer	
22-1669	100 Mmf. Ceramic - 500V.	.25	63-1573		.25
22-1852	7.5 Mmf Ceramic - 500V.	.25	63-1723	33 Ohm 1/2 W Ins. 20%	.17
22-1888	.0001 Mfd. Ceramic - 500V. (2 required)	.25	63-1730	47 Ohm 1/2 W Ins. 20%	.17
22-2302	470 Mmf. Ceramic - 500V.	.25	63-1744	100 Ohm 1/2 W Ins. 20%	.17
22-2370	50 Mmf. Disc - 500V. (2 required)	.25	63-1757	220 Ohm 1/2 W Ins. 10%	.17
22-2372	22 Mmf. Disc - 500V.	.25	63-1758	220 Ohm 1/2 W Ins. 20% (3 required)	.17
22-2665	68 Mmf. Mica - 500V.	.20	63-1772	470 Ohm 1/2 W Ins. 20%	.17
22-2703	220 Mmf.Disc - 500V. (2 required)	.25	63-1779	680 Ohm 1/2 W Ins. 20%	.17
22-2704	.0068 Mfd. Disc - 500V. (2 required)	.30	63-1785	1K Ohm 1/2 W Ins. 10%	.17
22-2732	1000 Mmf. Feed-Thru - 500V. (4 required		63-1786	1K Ohm 1/2 W Ins. 20%	.17
22-2780	.1 Mfd. Capacitor - 200V. (2 required)	.30	63-1789	1.2K Ohm $1/2$ W Ins. 10%	.17
22-2792	.047 Mfd. Capacitor - 200V.(4 required)	.30	63-1796	1.8K Ohm 1/2 W Ins. 10%	.17
22-2793	.047 Mfd. Capacitor - 400 V.	.35	63-1799	2.2K Ohm 1/2 W Ins. 10% (2 requires)	.17
22-2794	.047 Mfd. Capacitor - 600V.	.35	63-1800	2.2K Ohm 1/2 W Ins. 20%	.17
22-2806	.022 Mfd. Capacitor - 600 V.	.30	63-1827	10K Ohm 1/2 W Ins. 10% (2 required)	.17
22-2811	.01 Mfd. Capacitor - 400V.	.25	63-1835	15K Ohm 1/2 W Ins. 20%	.17
22-2827	.0047 Mfd. Capacitor - 600V-		63-1837	18K Ohm 1/2 W Ins. 5%	.34
22-2831	.0033 Mfd. Capacitor - 200V.(2 required)		63-1842	22K Ohm 1/2 W Ins. 20%	.17
22-2863	33 Mmf. Disc - 500V.	.25	63-1844	27K Ohm 1/2 W Ins. 5%	.34

63-1866 47KC Ohm 1/2 W Ins. 10% (2 required)	PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
10						_
63-1866 86KC Ohm 1/2 W Ins. 10% (2 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (2 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (2 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1869 100 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1861 20 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1861 20 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1861 20 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1863 10 M Ins. 10% (3 required) .17 63-1863 10 M Ins. 10% (2 required) .17 63-1863 10 M Ins. 10% (2 required) .17 63-1864 10 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1864 10 K Ohm 1/2 W Ins. 10% (3 required) .17 63-1865 Noval Wafer Tube Socket 2 required) .17 63-1869 10 Ins. 10 K Ohm 1/2 W Ins. 10% (3 required) .	63-1856	47K Ohm 1/2 W Ins. 20%	.17	86-334	Socket Terminal (6 used in 43-417 &	
63-1897 100 C	63-1862		.17			.10
63-1876 150	63-1866	82K Oh m $1/2$ W Ins. 10% (4 required)		93-1310	Steel Washer	
63-1896 150	63-1869	100 3 K Ohm 1/2 W Ins. 10%	.17	93-1359	Felt Washer (2 required)	.03
63-1862 20 CM chm 1/2 W lns. 10% (3 required) 17 95-1150 3.50 Color Cmm 1/2 W lns. 10% (3 required) 1.7 95-1151 Discriminator Transformer (FM) (2 color Cmm 1/2 W lns. 10% (3 required) 1.7 95-1151 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 95-1151 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 95-1151 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 95-1151 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (3 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 required) 1.7 112-132 2nd 1/2 Transformer (FM) (2 Color Cmm 1/2 W lns. 10% (2 Color	63-1870				R.F. Plate Mounting Bushing (4 required)	.03
63-1892 20 CN Chm 1/2 W Ins. 19% .						3.00
S3-1884 220 X Ohm 1/2 W Ins. 10% 20 20 X Ohm 1/2 W Ins. 10% 20 20 3.00				95-1150		
283-1884 220 TK Ohm 1/2 W Ins. 20% (2 required) 17 595-1251 2nd I.F. Transformer (FM & DC) 1.50 3-1887 307 CK Ohm 1/2 W Ins. 10% 34 100-221 Pilot Light Bub - type #45 1.50 3-1818 10 Megohm I/3 W Ins. 20% (3 required) 1.7 112-793 6-20 x I/4 Pills.Rd.Hd.Seif-Tap. 50-20 3-1912 1 Megohm I/3 W Ins. 20% (3 required) 1.7 112-793 6-20 x I/4 Pills.Rd.Hd.Seif-Tap. 50-20 1.7 112-1828 5-676% 5-76% 112-1828 5-76% 5-76				05 1150		
33-1887 270 K Ohm 1/2 W Ins. 10% (3 required) 1.7 35-1549 181 LF. Transformer (BC) 1.50 1.56 1.58 1.53 0.3K Ohm 1/2 W Ins. 10% 1.7 105-42 R/C Network 5.9 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.7 1.7 1.27						
33 33 33 33 33 34 30 34 36 34 36 34 35 35 35 35 35 35 35						
33 1912 1 Megohm 1/2 W Ins. 10% 17 112-738 6.20 x 1/4 Phills.Rd.Hd.Self-Tap. 53 1925 2.2 Megohm 1/2 W Ins. 20% (2 required) 17 112-1328 6.20 x 1/4 Phills.Rd.Hd.Self-Tap. 55 56 56 56 56 56 56 5						
13 12 1 Megohm 1/3 W Ins. 29% 17						
Sa-1925 2.2 Megohm 1/2 W Ins. 10% (2 required) 17 112-132% 8-132 18 x 5/16 Philas (4 H.d.Self-Tap) 3-1940 4.7 Megohm 1/2 W Ins. 10% (2 required) 17 112-132% 8-132 18 x 5/16 Philas (4 H.d.Self-Tap) 3-1940 4.7 Megohm 1/2 W Ins. 10% 17 112-132% 8-132 112-132% 8-132 112-132% 8-132 113-132% 8-						.50
53-1946 2.2 Megohm 1/2 W Ins. 20% (2 required) 17 112-1327 8-18 x 5/16 Phils.Rd.Hd.Self-Tap .03 53-1940 15 TMegohm 1/2 W Ins. 10% .17 .17 .17 .18 .5 Crew (used on Creduct Plane) .03 53-4414 2K - Ohm 10W 10% .90 .18 .18 .18 .27 .18 .18 .27 .28 .27 .3 .3 .3 .3 .3 .3 .3 .				112-100		
83-1940 4.7 Megohm 1/2 W Ins. 10% 2 required 1.7	63-1926	2.2 Megohm 1/2 W Ins. 20% (3 required)		112-1327		
15 Megohm 1/2 W Ins. 10%	63-1940	4.7 Megohm 1/2 W Ins. 20% (2 required)	.17	112-1021		.03
33-4410 Dual I Tone Control - Treble 2.75	63-1960		.17	112-1328		
63-4441	63-4410		2.75	112 1020		.03
10 10 10 10 10 10 10 10		2K ◆Ohm 10W 10%		113-8		
3 3 5 5 5 5 5 5 5 5						.03
14-78 3-18 x 5/16 x 1/4 Hex. Hd.Self. Tap. 17-18 18-18 x 5/16 x 1/4 Hex. Hd.Self. Tap. 17-18 18-18 x 5/16 x 1/4 Hex. Hd.Self. Tap. 17-18				113-10		
R-32 x 3/10 Slab Hd.Set Screw -			4.50		lockwasher Att. (4 used on 22-2944)	.03
Cuppoint (2 Pt. of S-40895) .04 .04 .05 .03 .03 .05				114-78	$8-18 \times 5/16 \times 1/4$ Hex.Hd.Self-Tap.	
Nov a Wafer Tube Socket (2 required)	73-115	· ·	0.4			
Nov-al Molded Tube Socket 2 required .40 Screw (used on S-44785) .03	70 700					.03
Re-953				114-180		
78-1073 7 C						.03
78-1199 3 Contact Socket 20				114-200		
78-1112		· _ · _ · _ · _ · _ · _ · _ · · _ ·		114 040		.03
Retaining Ring (2 used on S-44153) Retaining Ring (2 used on S-44153) Retaining Ring (2 used on S-44153) Retaining Ring (2 used on S-44244) Lug Terminal Strip 10 S-15691 Lug Terminal Strip 10 S-15691 Lug Terminal Strip 10 S-244153 S-2828 S-				114-643		0.0
78-1143 Comtact Wafer Tube Socket 20				114 659		.03
114-717	,			114-002		Λŝ
80-69				114.717		.03
80-209 Drive Cord Tension Spring (Pt.of 5-40013) .03 80-444 Tumer Arm Tension Spring			.15	114.111		
80-444 Turker Arm Tension Spring .05 125-73 Rubber Grommet (2 required) .10 80-780 Irori Core Tension Spring .05 126-797 Tube Shield .10 80-1091 Dial Cord Tension Spring .08 126-956 Pilot Light Shield (2 required) 80-1142 Ground Spring .20 126-956 Pilot Light Shield (2 required) .50 80-1143 Drive Cord Tension Spring(3 required) .10 148-149 Tuner Arm .50 80-133 Tun.er Arm Stop Spring .10 149-84 Iron Core & Spring (2 required) .75 83-1475 Armite Strip .03 149-211 Iron Core & Spring (2 required) .75 83-1844 Antenna Terminal Strip .05 188-118 Retaining Ring (2 used on S-44153) .03 83-2135 4 Lung Terminal Strip (2 required) .10 188-177 Clamping Ring (2 used on S-44153) .03 83-2307 4 Lung Terminal Strip (2 required) .10 188-217 Clamping Ring (1 pt. of ea. S-50453) .03 83-2612 2 Lung Terminal Strip (2 required) .10 S-15691 FM Oscillator Coil .50 83-2612 2 Lung Terminal Strip (2 required) .05 S-15743 FM Detection Coil .80 83-2617 6 Lung Terminal Strip .10 S-18812 Loop Loading Coil .80 83-2628 Single Lug Terminal Strip .05 S-40695 Bushing, Cam & Pulley Assem. 1.25 83-2639 S Lung Terminal Strip .05 S-41087 Broadcast Detector Coil .00 83-2647 E Lung Terminal Strip .05 S-41087 Broadcast Detector Coil .00 83-2639 S Lung Terminal Strip .05 S-41087 Broadcast Detector Coil .00 83-2639 S Lung Terminal Strip .05 S-41087 Broadcast Detector Coil .00 83-2646 6 Lung Terminal Strip .05 S-41087 Broadcast Detector Coil .00 83-2658 Single Lug Terminal Strip .05 S-41081 Broadcast Detector Coil .00 83-2659 S Lung Terminal Strip .05 S-41081 Broadcast Detector Coil .00 83-2660 S-44084 S-44765 Shield Cover, Braid, Lung & Strip Assem. .75 83-3647 S Lung Terminal Strip .05 S-45586 Drive Cord & Eyelet Assem. .75 83-3656 Momauural Strep S-45650 Pulley & Ring Assem. .76	80-209			125-17		.03
80-780	80-444					
80-1091 Dial Cord Tension Spring .08 .26-959 Pilot Light Shield (2 required) 80-1142 Ground Spring .20	80-780	Irora Core Tension Spring	.05			
80-1142 Ground Spring .20 126-956 Pilot Light Shield (2 required) .50	80-1091	Dia 1 Cord Tension Spring	.08	126-959		
80-1140 Dri-ve Cord Tension Spring(3 required) 10 148-149 Tuner Arm 50 80-1333 Tun.er Arm Stop Spring 10 149-64 Iron Core & Spring (2 required) .75 149-211 Iron Core & Spring (2 required) .75 149-211 Iron Core & Spring (2 required) .75 149-211 Iron Core & Spring (2 required) .75 Ir				126-956		
R3-1475 Armite Strip .03 .149-211 Iron Core (1 Pt. of ea. S-41087 & 41088) .10				148-149		.50
S3-1884				149-64	Iron Core & Spring (2 required)	.75
S3-2132 Single Lug Terminal Strip .05 188-148 Retaining Ring (2 used on S-44153) .03						.10
83-2135 4 Lug Terminal Strip (2 required) .10 188-177 Clamping Ring (1 Pt. of ea. S-50453) .03 83-2307 4 Lug Terminal Strip (2 required) .10 188-221 Retaining Ring (used on S-44244) .04 83-2522 6 Lug Terminal Strip .10 S-15691 F M Oscillator Coil .50 83-2612 2 Lug Terminal Strip (2 required) .05 S-15743 F M Detection Coil .80 83-2617 6 Lug Terminal Strip .10 S-18812 Loop Loading Coil .80 83-2618 8 Lug Terminal Strip .10 S-40013 Drive Cord & Eyelet - Adler .15 83-2627 2 Lug Terminal Strip .05 S-40695 Bushing, Cam & Pulley Assem. 1.25 83-2628 Single Lug Terminal Strip .05 S-41087 Broadcast Oscillator Coil 1.00 83-2619 3 Lug Terminal Strip .05 S-41088 Broadcast Detector Coil 1.00 83-2712 Ter minal Strip (Loop Antenna) .20 S-41812 Oscillator Shield & Terminal Strip Assem. .25 83-2963 4 Lug Terminal Strip .10 S-44153 Pulley & Shaft Assem. .60 83-2964 6 Lug Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem. .75 83-3353 2 Lug Terminal Strip S-45586 Drive Cord & Eyelet Assem70 83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet Assem Tuning S-45586 Drive Cord & Eyelet Assem Tuning S-64586 Momaural Stereo Switch S-50453 Dulley & Ring Assem. (Presence & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone Pulley & Ring Assem. .25 Drive Cord & Tone					9	
S3-2307 4 Lug Terminal Strip (2 required) .10 .188-221 Retaining Ring (used on S-44244) .04						
83-2522 6 Lwg Terminal Strip					Clamping Ring (1 Pt. of ea. S-50453)	
S3-2612 2 Lug Terminal Strip (2 required) .05 S-15743 F M Detection Coil .80						
83-2617 6 Lung Terminal Strip .10 S-18812 Loop Loading Coil .80 83-2618 8 Lung Terminal Strip .10 S-40013 Drive Cord & Eyelet - Adler .15 83-2627 2 Lung Terminal Strip .05 S-40695 Bushing, Cam & Pulley Assem. 1.25 83-2628 Single Lung Terminal Strip .05 S-41087 Broadcast Oscillator Coil 1.00 83-2639 3 Lung Terminal Strip .05 S-41088 Broadcast Detector Coil 1.00 83-2712 Terminal Strip (Loop Antenna) .20 S-41812 Oscillator Shield & Terminal Strip Assem25 83-2963 4 Lung Terminal Strip .10 S-44153 Pulley & Shaft Assem60 83-2964 6 Lung Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem75 83-3353 2 Lung Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem75 83-3477 8 Lung Terminal Strip S-44785 Shield Cover, Braid, Lung & Strip Assem50 83-3523 4 Lung Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban Sawitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural-Stereo Switch S-50453 Pulley & Ring Assem. (Presence & Tone						
83-2618 8 Lug Terminal Strip .10 S-40013 Drive Cord & Eyelet - Adler .15 83-2627 2 Lug Terminal Strip .05 S-40695 Bushing, Cam & Pulley Assem. 1.25 83-2628 Single Lug Terminal Strip .05 S-41087 Broadcast Oscillator Coil 1.00 83-2639 3 Lug Terminal Strip .05 S-41088 Broadcast Detector Coil 1.00 83-2712 Ter minal Strip (Loop Antenna) .20 S-41812 Oscillator Shield & Terminal Strip Assem25 83-2963 4 Lug Terminal Strip .10 S-44153 Pulley & Shaft Assem60 83-2964 6 Lug Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem75 83-3353 2 Lug Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem75 83-3477 8 Lug Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem50 83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural Stereo Switch Pulley & Ring Assem.(Presence & Tone						
83-2627 2 Lig Terminal Strip .05 S-40695 Bushing, Cam & Pulley Assem. 1.25 83-2628 Single Lug Terminal Strip .05 S-41087 Broadcast Oscillator Coil 1.00 83-2639 3 Lug Terminal Strip .05 S-41088 Broadcast Detector Coil 1.00 83-2712 Ter minal Strip (Loop Antenna) .20 S-41812 Oscillator Shield & Terminal Strip Assem. .25 83-2963 4 Lig Terminal Strip .10 S-44153 Pulley & Shaft Assem. .60 83-2964 6 Lig Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem. .75 83-3353 2 Lig Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem. .75 83-3477 8 Lilg Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem. .50 83-3523 4 Lilg Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Bandswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mornaural-Stereo Switch S-50453 Pulley & Ring Assem.(Presence & Tone						
83-2628 Single Lug Terminal Strip .05 S-41087 Broadcast Oscillator Coil 1.00		•				
83-2639 3 Leig Terminal Strip .05 S-41088 Broadcast Detector Coil 1.00 83-2712 Ter minal Strip (Loop Antenna) .20 S-41812 Oscillator Shield & Terminal Strip Assem. .25 83-2963 4 Lug Terminal Strip .10 S-44153 Pulley & Shaft Assem. .60 83-2964 6 Lug Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem. .75 83-3353 2 Lug Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem. .75 83-3477 8 Lug Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem. .50 83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural-Stereo Switch S-50453 Pulley & Ring Assem.(Presence & Tone					•	
83-2712 Ter minal Strip (Loop Antenna) .20 S-41812 Oscillator Shield & Terminal Strip Assem. .25 83-2963 4 Lug Terminal Strip .10 S-44153 Pulley & Shaft Assem. .60 83-2964 6 Lug Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem. .75 83-3353 2 Lug Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem. .75 83-3477 8 Lug Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem. .50 83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural-Stereo Switch S-50453 Pulley & Ring Assem.(Presence & Tone						
83-2963 4 Lig Terminal Strip .10 S-44153 Pulley & Shaft Assem. .60 83-2964 6 Lig Terminal Strip .10 S-44244 Tuning Shaft & Pulley Assem. .75 83-3353 2 Lig Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem. .75 83-3477 8 Lig Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem. .50 83-3523 4 Lig Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural-Stereo Switch S-50453 Pulley & Ring Assem.(Presence & Tone	83-2712	Ter minal Strip (Loop Antenna)				
83-2964 6 Lig Terminal Strip 10 S-44244 Tuning Shaft & Pulley Assem. 75 83-3353 2 Lig Terminal Strip (Pt.of S-41812) 10 S-44775 Stereo Jack & Bracket Assem. 75 83-3477 8 Lig Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem. 50 83-3523 4 Lig Terminal Strip S-45586 Drive Cord & Eyelet Assem. Tuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural-Stereo Switch S-50453 Pulley & Ring Assem. (Presence & Tone		4 Lug Terminal Strip			_	
83-3353 2 Lug Terminal Strip (Pt.of S-41812) .10 S-44775 Stereo Jack & Bracket Assem75 83-3477 8 Lug Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem50 83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Mormaural - Stereo Switch S-50453 Pulley & Ring Assem. (Presence & Tone	83-2964				•	
83-3477 8 Lug Terminal Strip S-44785 Shield Cover, Braid, Lug & Strip Assem50 83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Moraural-Stereo Switch S-50453 Pulley & Ring Assem.(Presence & Tone		2 Lug Terminal Strip (Pt. of S-41812)			· ·	
83-3523 4 Lug Terminal Strip S-45586 Drive Cord & Eyelet AssemTuning 85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Moraural-Stereo Switch S-50453 Pulley & Ring Assem.(Presence & Tone						
85-640 Ban dswitch 9.00 S-50452 Idler Pulley & Strip Assem. 85-676 Moraural-Stereo Switch S-50453 Pulley & Ring Assem. (Presence & Tone		•		S-45586		
A0 000			9.00	S-50452		
86-303 Terminal (3 required) .04 Control)				S-50453		
	86-303	Terminal (3 required)	.04		Control)	

9F26 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
11-148 12-1406 12-2386 12-2637 12-2661 12-2676	Ban dswitch Support Bracket (2 Pt. of 85-6 Dia L Scale Extension Bracket Plate Support Bracket	.90 .05 .81) .20 .10 .10	12-3019 12-3030	Pointer Mounting Bracket (3 required) Dial Scale Support Bracket (2 required) Cover Bracket (Left) Cover Bracket (Right) Coil Mounting Clip R F Choke Coil (2 required)	.05 .25

PART	DESCRIPTION	PRICE	PART	DESCRIPTION E	<u>⊇RICE</u>
20 602	F M Antenna Coil	.25	78-788	Noval Wafer Socket (12AX7)	.40
20-682	.01 Mfd. Disc - 500V. (12 required)	.30	78-846	Noval Wafer Socket (12AU7)	.35
22-3	.01 Mid. Disc = 500V. (12 required)	.25	78-850	Noval Molded Socket (12AT7)	.40
22-5	100 Mmf. Disc - 500V. (3 required)		78-916	Wafer Socket (6BJ6)	.15
22-9	100 Mmf. Disc - 500V. (2 required)	.25	78-1074	Noval Molded Socket (6AB4)	.25
22-12	.0015 Mfd. Disc - 500V.	.25	78-1073	Wafer Socket (6AU6) (6BA6-1st I.F.)	
22-14	.0047 Mfd.Disc - 500V.	.25	10-1010	(2 required)	.25
22-17	.001 Mfd. Disc - 1KV (2 required)	.25	79 1000	3 Contact Socket	.20
22-18	.0022 Mfd. Disc - 500V. (2 required)	.25	78-1099		.60
22-1156	40 Mfd. Electrolytic - 25V.		78-1119	Dual Pilot Light Socket & Wire	
22-1766	.68 Mmf. Gimmick - 500V.	.20	78-1122	4 Contact Socket	.15
22-1852	2.5 Mmf. Ceramic - 500V.	.25	78-1142	Noval Wafer Socket (6BC7)	.25
22-1888	.001 Mfd. Ceramic - 500V. (3 required)	.25	78-1143	Wafer Socket (6BA6 - 2nd I.F.)	.20
22-2370	50 Mmf. Disc - 500V.	.25	78-1207	Dual Pilot Light Socket & Wire	
22-2372	22 Mmf. Disc - 500V.	.25	80-69	Drive Cord Tension Spring (used on S-45	
22-2376	47 Mmf. Disc - 500V. (2 required)	.25	80-209	Drive Cord Tension Spring (used on S-4001:	3) .03
22-2655	.01 Mfd. Disc - 1400V.	.50	80-444	Tuner Arm Tension Spring	.05
22-2782	.1 Mfd. Capacitor - 600 V. (2 required)	.45	80-780	Iron Core Tension Spring (2 required)	.05
22-2792	.047 Mfd. Capacitor - 200V. (3 required)		80-1257	Limiter Spring	.10
	.047 Mfd. Capacitor - 200V. (4 required		80-1091	Dial Cord Tension Spring (used on S-4415)	30. (ב
22-2794		.35	80-1142	Ground Spring	.20
22-2777	.22 Mfd. Capacitor - 200V.		80-1140	Drive Cord Tension Spring	
22-2825	.0047 Mfd. Capacitor - 200V. (4 require	d) .25	00-1110	(1 used on ea. S-50776)	.10
22-2831	.0033 Mfd. Capacitor - 200V. (2 require		09 9199		.25
22-2875	150 Mmf. Disc - 500V. (2 required)	.25	83-2123	Antenna Terminal Strip	.05
22-2943	10 Mfd. Electrolytic - 350V.	1.85	83-2132	-	
22-3019	3 Section Variable	3.50	83-2135	4 Lug Terminal Strip	.10
22-3231	19 Mmf. Disc - 500V.	.25	83-2216	7 Lug Terminal Strip	.15
26-684	Dial Scale		83-2307	4 Lug Terminal Strip	.10
43-422	Socket Terminal Housing	.35	83-2627	2 Lug Terminal Strip	.05
52-807	Shielded Lead (A.C. Switch)	.40	83-2639	3 Lug Terminal Strip (5 required)	.05
54-139	3/8 - 32 x 9/16 Palnut (1 Mts.ea.		83-2715	Terminal Strip (Loop Antenna)	.05
	63-4460, 4725, 4732 & 4735)	.03	83-2963	4 Lug Terminal Strip	.10
54-140	3/8 x 9/16 Hex.Nut (Mts. 63-4631)	.06	83-2965	7 Lug Terminal Strip	.10
54-271	$6-32 \times 1/4$ Palnut (1 used on ea.95-1102,		83-3477	8 Lug Terminal Strip	
07-211	1153, 1250 & 1251, & 2 on 95-1150)	.03	85-681	Bandswitch ·	
EF 2025		.00	85-676	Monaural-Stereo Switch	
57-3035	Tone-Presence Control Escutcheon		86-334	Socket Terminal (11 used on 43-422)	.10
57-3036	Control Escutcheon Mtg. Plate		93-1310	Steel Washer	
58-169	7 Prong Plug (Pt. of S-51082)	.20	93-1359	Felt Washer (2 required)	.03
58-242	4 Prong Plug (Pt. of S-50460)	.15		R.F. Plate Mounting Bushing	.03
59-379	Dial Pointer		94-946		3.00
59-382	Treble Indicator Pointer		95-1102	3rd I.F. Transformer (BC)	3.00
59-383	Presence Indicator Pointer		95-1150	1st I.F. Transformer & 3rd I.F.	0.50
59-384	Bass Indicator Pointer			Transformer (FM) (2 required)	3.50
63-1216	10K Ohm 1W Ins. 20%	.25	95-1153	Discriminator Transformer (FM)	3.50
63-1730		.17	95-1250	1st I.F. Transformer (BC)	3.00
63-1743		.17	95-1251	2nd I.F. Transformer (FM & BC)	3.00
63-1758	` '	.17	100-221	Pilot Light Bulb	.15
63-1778		.17	105-42	R/C Network	.50
		.17	112-793	6-20 x 1/4 Phils.Rd.Hd.Self-Tap.	
63-1786		.17		Screw (2 used on 85-676)	
63-1789	1.2K Ohm 1/2 W Ins. 10%	.17	112-1328	6-20 x 1/2 Phils.Rd.Hd.Self-Tap.	
63-1796	1.8K Ohm 1/2 W Ins. 10%		111 1010	Screw (5 required)	.03
63-1800		.17	113-8	6-32 x 1/4 x 1/4 Hex.Hd. Mach. Screw-	
63-1803		.17	110-0	lockwasher Att. (6 required)	.03
63-1827		.17	113-10	$6-32 \times 3/16 \times 1/4$ (6 used on 22-3019)	.03
63-1835		.17			.00
63-1841		.17	114-26	8-18 x 1/4 x 1/4 Hex.Hd.Self-Tap.	0.9
63-1848	33K Ohm $1/2$ W Ins. 10% (5 required)	.17	444 50	Screw (6 Mt. S-50648)	.03
63-1855	47K Ohm 1/2 W Ins. 10% (2 required)	.17	114-78	$8-18 \times 5/16 \times 1/4$ Hex.Hd.Self-Tap.	
63-1856		.17		Screw (1 used on 12-2676, 2 on ea.	
63-1866		.17		12-2661 & 3009, & 3 on S-50455)	.03
63-1869		.17	114-643	$6-20 \times 5/8 \times 1/4$ Hex.Hd.Self-Tap.	
63-1870		.17		Screw	.03
63-1876		.17	114-652	$8-18 \times 5/16 \times 1/4$ Hex.Hd.Self-Tap.	
		.17		Screw (2 required)	.03
63-1884	220K Ohin 1/2 W Ins. 20/0	.17	114-717	4-24 x 7/32 x 3/16 Hex.Hd.Self-Tap-	
63-1901				Screw	
63-1911		.17	125-17	Rubber Grommet (4 required)	.03
63-1912	1 Megohm 1/2 W Ins. 20%	.17	125-73	Rubber Grommet (1 used on ea.	
63-1925	2.2 Megohm 1/2 W Ins. 10% (4 required	1) .17	120-10		.10
63-1926	2.2 Megohm 1/2 W Ins. 20% (3 required	.17	195 00	S-15691 & 15743) Strain Polici Crammat	
63-1940		1) .17	125-96	Strain Relief Grommet	.10
63-4395	2.2K Ohm 10W 10%	.90	126-622	Tube Shield	.20
63-4414	2K Ohm 10W 10%	.90	126-797	Tube Shield (2 required)	.10
63-4460		4.50	126-956	Pilot Light Shield (2 required)	
			126-959	Pilot Light Shield (2 required)	
63-463	1 Dual Loudness Control	2.75	148-149	Tuner Arm	.50
63-472			149-64	Iron Core & Spring (2 required)	.75
63-473			149-211	Iron Core (Pt. of S-46288)	.10
63-473			188-148	Retaining Ring (2 used on S-44153)	.03
00-419			-	÷ = :	

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
188-177 188-221 S-15691 S-15743 S-40013 S-40695 S-44151 S-44153	Cla_mping Ring (1 Pt.of ea.S-50453) Retaining Ring (used on S-44244) FM_ Oscillator Coil FM_ Detector Coil Drive Cord & Eyelet Assem. Bu\(\sigma\)hing, Cam & Pulley Assem. Drive Cord & Eyelet AssemDial Poi nter Pul ley & Shaft Assem.	.03 .04 .50 .80 .15 1.25	S-45586 S-46288 S-50452 S-50453 S-50455 S-50460 S-50648 S-50776	Drive Cord & Eyelet AssemTuning Broadcast Oscillator Coil Idler Pulley & Strip Assem. Pulley & Ring Assem. (Presence & Tone Control) (3 required) Plate, Strip, Bushing & Stud Assem. Shorting Plug Assem. Chassis Bottom Plate & Spring Assem. Drive Cord & Eyelet Assem. (3 required)	.20
S-44244 S-45360	Turning Shaft & Pulley Assem. Barndswitch Shield & Terminal Strip Ass	.75 sem50	S-51082	Plug & Wire Assembly	,

CABINET PARTS

SFD660 CABINET PARTS

PART	DES CRIPTION	PRICE	PART	DESCRIPTION	PRICE
14-2890C	C Tab⊒e Cabinet Packing Carton		112-1200	6-18 x 7/8 Phils. Truss Washer Hd. Self-Tap.Screw (4 used on 14-2890C)	.05
19-169	Record Changer Mtg.Clip (2 used)	.10	112-1202	- · · · · · · · · · · · · · · · · · · ·	
19-346	Mou nting Clip (used on S-46112)	.30		- washer att. (4 mt. 5D20)	.10
24-1000	Chassis Cover		112-1226	Record Chgr. Mtg. Screw (2 used)	.20
36-244	Cabinet Handle (pt. of 14-2890C)		114-329	·,	
40-157	Lid ≤Support Hinge (pt. of 14-2890C)	1.30		(2 used on ea. S-23829 & 5D20)	.03
46-1813	Louciness & Treble Tone Control Knob(2	.15	114-669	$6-18 \times 1/2 \times 1/4$ Hex.Hd.Self-Tap.Screw	7
49-849	7 مر2" PM Speaker	9.00		(2 used on 19-346)	.03
54-10	8-32 x 1/4 Hex. Nut (4 Pt. of 14-2890C)	.03	142-102	Dual Pickup Cartridge (pt. of 169-116)	
54-424	8-32 x 11/32 Hex. Palnut (4 mt. 49-849)	.03	169-116	4 Speed Record Changer	
70-215	6 x 3/8 Phils. Rd.Hd.Wood Screw		171-16	Pilot Light Lens (pt. of 14-2890C)	.25
	(7 m t. 24-1000)	.04	188-54	Knob Clamping Ring (1 pt. of ea.	
80-1003	Knob Retaining Spring (pt. of S-45377)	.10		S-43480 & 47867)	.03
83-765	Arm ite Strip (2 used)	.03	202-1552	Instruction Book	
83-1475	Arm ite Strip	.03	S-23829	Tweeter Speaker	1.10
83-2535	Phorao Shipping Strip (2 used)	.03	S-45377	Tuning Knob & Spring Assem.	.75
86-254	Terminal (4 used)	.05	S-46112	45 R.P.M. Record Adapter	5.00
112-788	8-32 x 1 1/8 Swedge Hd. Mach. Screw		S-43480	Knob & Ring Assem. (Bass)	.25
	(4 pt. of 14-2890C)	.03	S-47867	Knob & Ring Assem. (Radio - Phono)	.50

SFF2500 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
14-3193 14-3194 14-3195 16-1779 19-169 19-346 22-3379	Cons ole Cabinet - Model SFF2500R Cons ole Cabinet - Model SFF2500E Pack ing Carton Retaining Clip (2 used on 169-127) Mourating Clip (Mts. S-46112) 8 Mfcl. Electrolytic 15VAC (2 required)	.30	57-2498 57-2561 57-2864 57-3001 72-136	Name Plate - Stereophonic (Pt. of cabine Shield Plate Control Panel 4 x 3/8 Phils. Flat Head Wood Screw (2 used on 57-3001) Phono Shipping Strip (2 required)	.20
40-202 40-203	Lid S upport Hinge (Pt. of 14-3193 & 3194 Lid S upport Hinge (Pt. of 14-3195)	.60 .60	83-3418 83-3419	Control Panel Trim Strip Locking Strip	.30
40-233 40-234 46-1997 46-2263 49-414 49-915 54-312 54-385 54-424	Lid Hinge (2 Pt. of 14-3193 & 3194) Lid Hinge (2 Pt. of 14-3195) Volume Control Knob (Stereo) Tone Control Knob (2 required) 10" PM Speaker 5 1/4" PM Speaker (2 required) Speed Nut (2 Pt. of cabinet) 6-32 x 5/16 Hex. Nut (6 required) 8-32 x 11/32 Hex. Palnut - washer type	.60 .60 .50 .50 11.00 6.00 .03	86-304 86-333 96-300 96-301 96-302 112-1226 112-1265	Connector Terminal (6 required) Connector Terminal (10 required) Cabinet Leg (4 Pt. of 14-3193) Cabinet Leg (4 Pt. of 14-3194) Cabinet Leg (4 Pt. of 14-3195) Record Changer Mtg. Screw (2 required) 6-32 x 1/4 Speaker Mtg. Screw (4 Pt. of cabinet) 8-32 x 1/2 Speaker Mtg. Screw	.05
	(4 us∈d on 49-914)	.03		(4 Pt. of cabinet)	.10

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
114-40	Chassis Mtg. Screw (4 required)	.03			
114-669			188-54	Knob Retaining Ring (Pt. of S-50994)	.03
	Screw (2 used on 19-346	.03	202-1625	Instruction Book	
114-739	$10-32 \times 1 1/4 \text{Slot Hex. Head Machine}$		S-26657	Terminal Strip (2 required)	.20
	Screw - Flat washer att. (4 Pt. of cabine	t)	S-46112	45 R.P.M. Record Adapter	
142-103	Dual Pickup Cartridge			Cartridge Holder (Pt. of 169-127)	5.00
	Sapphire - Sapphire	7.95	S-50994	Knob & Ring Assembly (Volume)	
169-127	4 Speed Record Changer (See record		GRC 1063	Grille Cloth - SFF2500R	
	changer parts list for components)		GRC 1064	Grille Cloth - SFF2500E&W	

SFF2501T, SFF2503T, SFF2505T, SFF2601, SFF2603 SFF2605, SFF2606, SFF2607 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
12-3042	Stereo Balance Control Mounting Bracket		58-226	5 Prong Plug (1 Pt. of ea. S-47260)	.15
19-169	Retaining Clip (2 used on 169-131)	.10	63-4721	Stereo Balance Control	
19-346	Mounting Clip (mts. S-46112)	.30	72-136	4 x 3/8 Phils. Flat Hd. Wood Screw	
40-225	Lid Support Hinge (Pt. of 14-3272 & 3276		E0 1000	(3 used on 57-3019)	.04
40-226	Lid Support Hinge (Pt. of 14-3280)	2.50	78-1036	5 Contact Socket (2 Pt. of S-47257)	.25
40-233	Lid Hinge (2 Pt. of 14-3272 &3276)	.60	83-3393	Felt Strip	.03
40-234	Lid Hinge (2 Pt. of 14-3280	.60	83-765 83-2535	Armite Strip (8 required)	.03 .03
46-2263	Control Knob (Loudness -Bass-Treble)	•00	83-2535 83-3505	Phono Shipping Strip (2 Required) Control Panel Trim Strip	.03
	(3 required)	.50	83-3226	2	.15
46-2586	Knob (Monaural - Stereo)	•••	86-304	Locking Strip Connector Terminal (3 required)	.05
46-2306		.25	86-333		.03
52-874	Speaker Cable (2 required) (Made from		112-1226		.03
	91-1757)	.70	112-1240	(2 required)	.20
		***	112-1265	6 - 32 x l 1/4 Speaker Mtg. Screw	.20
52-919	Balance Control Cable (Made from		112-1203	(4 Pt. of Cabinet)	
	91-1757)	.,	112-1269	8 - 32 x 1 1/2 Speaker Mtg. Screw	
54-139	3/8 - 32 x 9/16 Hex. Palnut (Mts.63-472		112-1203	(8 Pt. of Cabinet)	.10
54-312	Speed Nut (2 Pt. of Cabinet)	.03	126-960	Heat Shield (Phono)	.10
54-424	8-32 x 11/32 Hex. Palnut (8 used on	00	142-108	Dual Pickup Cartridge (Sapphire-	
	49-852)	.03	142-100	Sapphire)	
54-502	6-32 x 1/4 Hex. Nut (4 used on 49-856)	.03	S-47257	Brack e t & Socket Assembly	
57-2498		.35	S-47260	Plug & Wire Assembly (2 used on S-47)	9 57)
57-2815		1.25	S-46112	45 R.P.M. Record Adapter	5.00
57-3019	Control Panel		0-40112	to 16.1 .M. Hecord hadres	0.00

SFF2501T CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
14-3327 14-3328 14-3329 14-3330 14-3387 16-1820 49-923 49-924 70-142 83-3520	Console Cabinet - Model SFF2501WT Console Cabinet - Model SFF2501RT Console Cabinet - Model SFF2501ET Console Cabinet - Model SFF2501HT Record Storage Well Packing Carton 4 x 6 PM Speaker (2 required) 10" PM Speaker (2 required) 8 x 3/8 Phils Rd.Hd. Wood Screw (2 Mt. 14-3387) Record Well Trim Strip	6.50 11.00	91-1757 114-386 159-90 159-91 169-133 202-1659 GRC22 GRC1048 GRC1050	Grille Cloth - Model SFF2501RT	.10 .15 .10

SFF2503T CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-953 14-3311 14-3312 14-3313	Cabinet Back Console Cabinet - Model SFF2503WT Console Cabinet - Model SFF2503RT Console Cabinet - Model SFF2503ET	· ·	14-3387 16-1815 17-165	Record Storage Well Packing Carton Trim Strip Retaining Clamp	

PART	<u>DESCRIPTION</u>	PRICE	PART	DESCRIPTION	PRICE
			114 450	4.10 5 /0 G1-1/-1 W - 77.1 G .10 m	
22-3374	1.0 Mfd. Electrolytic Capacitor -		114-453	6-18 x 5/8 Slotted Hex. Hd. Self-Tap.	
	20 VAC (2 required)			Screw (9 Mt. 2-953)	.10
49-896	5 L/4" PM Speaker (2 required)	6.00	114-669	$6-18 \times 1/2 \times 1/4$ Hex.Hd. Self-Tap.Screw	
49-916	10" PM Speaker (2 required)	15.00		(6 required)	.03
70-142	8 x 3/8 Phils.Rd.Hd.Wood Screw		114-748	Chassis Mounting Screw (4 required)	
	(2 PMt. 14-3387)		159-90	Plug Button (Part of 14-3313)	.15
83-3520	Record Well Trim Strip		159-91	Plug Button (Part of 14-3311 & 14-3312)	.10
91-1757	3-Conductor Wire		169-133	4-Speed Record Changer	
96-292	Cabinet Leg (4 Pt. of 14-3311)		202-1682	Instruction Book	
96-293	Cabinet Leg (4 Pt. of 14-3312)		S-26657	Terminal Strip (2 required)	.20
96-294	Cabinet Leg (4 Pt. of 14-3313)		GRC 934	Grille Cloth - Model SFF2503RT	
112-1203	8-15 x l Phils Flat Hd. Self-Tap. Screw		GRC935	Grille Cloth - Models SFF2503ET & WT	
	(6 ⊋t. of Cabinet)	.05	HDW10001	Metal Trim	

SFF2505T, CABINET PARTS

PART	<u>DESCRIPTION</u>	PRICE	PART	DESCRIPTION	PRICE
2-962	Cab-inet Back		96-316	Cabinet Leg (4 Pt. of 14-3270)	
14-3270	Cabinet Base Frame - Model SFF2505W	Т	96-317	Cabinet Leg (4 Pt. of 14-3274)	
14-3272	Cab-inet Top Section - Model SFF2505W	_	96-318	Cabinet Leg (4 Pt. of 14-3278)	
14-3274	Cab-inet Base Frame-Model SFF2505RT	-	112-1203	8-15 x 1 Phils. Flat Hd. Self Tap. Screw	
14-3276	Cab-inet Top Section-Model SFF2505RT			(6 required)	.03
14-3278	Cab-inet Base Frame-Model SFF2505ET		114-453	6-18 x 5/8 Slotted Hex.Hd.Self Tap.	
14-3280	Cab inet Top Section-Model SFF2505ET			Screw (9 Mt. 2-962)	.10
14-3387	Rec ord Storage Well		114-669	$6-18 \times 1/2 \times 1/4$ Hex. Hd. Self Tap.	
16-1806	Pac king Carton			Screw (6 required)	.03
17-165	Trimm Strip Retaining Clamp		114-748	Chassis Mounting Screw (4 required)	
22-2945	3 M fd. Electrolytic Capacitor - 30V		159-90	Plug Button - Model SFF2505ET	.15
	(1 P-t. of ea. 49-856)	1.25	159-91	Plug Button - Models SFF2505RT & WT	.10
27-324	Tur ntable Insert (Pt. of 169-131)		169-131	4-Speed Record Changer	
49-852	12" PM Speaker (2 required)	16.00	199-315	Brass Sleeve (4 required)	
49-856	5" PM Speaker (2 required)	7.00	202-1651	Instruction Book	
57-3005	Name Plate Background (Pt. of 169-131)		S-26657	Terminal Strip (1 Pt. of ea. 49-856)	.20
57-3007	Name Plate Overlay (Pt. of 169-131)		GRC1020	Grille Cloth - Model SFF2505ET	
70-142	8 x 3/8 Phils.Rd.Hd.Wood Screw		GRC1021	Grille Cloth - Model SFF2505WT	
	(2 M1t. 14-3387)		GRC1022	Grille Cloth - Model SFF2505RT	
83-3570	Rec-ord Well Trim Strip		HDW2004	Polished Brass Handle	

SFF2601 CABINET PARTS

DES CRIPTION	PRICE	PART	DESCRIPTION	PRICE
Console Cabinet - Model SFF2601W		114-386	Chassis Mounting Screw (4 required)	.10
Console Cabinet - Model SFF2601R				• • • • • • • • • • • • • • • • • • • •
Console Cabinet - Model SFF2601E			(2 required)	.03
Console Cabinet - Model SFF2601H		159-90	Plug Button (Part of 14-3329)	.15
Packing Carton				
Connector Clip (Pt. of S-50395)		169-133	4-Speed Record Changer	
4 x 6 PM Speaker (2 required)	6.50	202-697	FM Instruction Book	
10" PM Speaker (2 required)	11.00	202-1666	Instruction Book	
		S-50395	FM Antenna	
		GRC22	Grille Cloth SFF2601H	
3-Conductor Wire		GRC 1048	Grille Cloth SFF2601W	
10-352 x 13/16 Hex.Hd. Mach. Screw		GRC1049	Grille Cloth SFF2601R	
Lockwasher Att. (2 required)		GRC 1050	Grille Cloth SFF2601E	
	Console Cabinet - Model SFF2601W Console Cabinet - Model SFF2601R Console Cabinet - Model SFF2601E Console Cabinet - Model SFF2601H Packing Carton Connector Clip (Pt. of S-50395) 4 x © PM Speaker (2 required) 10" PM Speaker (2 required) Line Cord Capacitor Strip Space Terminal (Pt. of S-50395) 3-Conductor Wire 10-3-2 x 13/16 Hex.Hd.Mach.Screw	Console Cabinet - Model SFF2601W Console Cabinet - Model SFF2601R Console Cabinet - Model SFF2601E Console Cabinet - Model SFF2601E Console Cabinet - Model SFF2601H Packing Carton Connector Clip (Pt. of S-50395) 4 x © PM Speaker (2 required) 6.50 10" PM Speaker (2 required) 11.00 Line Cord Capacitor Strip Spadle Terminal (Pt. of S-50395) 3-Conductor Wire 10-3-2 x 13/16 Hex.Hd.Mach.Screw	Console Cabinet - Model SFF2601W 114-386 Console Cabinet - Model SFF2601R 114-669 Console Cabinet - Model SFF2601E 159-90 Console Cabinet - Model SFF2601H 159-90 Packing Carton 169-133 Connector Clip (Pt. of S-50395) 202-697 10" PM Speaker (2 required) 11.00 202-1666 Line Cord Capacitor Strip S-50395 Space Terminal (Pt. of S-50395) GRC22 3-Conductor Wire GRC1048 10-3-2 x 13/16 Hex.Hd. Mach. Screw GRC1049	Console Cabinet - Model SFF2601W 114-386 Chassis Mounting Screw (4 required) Console Cabinet - Model SFF2601R 114-669 6-18 x 1/2 x 1/4 Hex.Hd.Self-Tap.Screw Console Cabinet - Model SFF2601E (2 required) (2 required) Console Cabinet - Model SFF2601H 159-90 Plug Button (Part of 14-3329) Packing Carton 169-133 4-Speed Record Changer Contractor Clip (Pt. of S-50395) 202-697 FM Instruction Book 10" PM Speaker (2 required) 11.00 202-1666 Instruction Book Line Cord Capacitor Strip S-50395 FM Antenna Spacke Terminal (Pt. of S-50395) GRC22 Grille Cloth SFF2601W 3-Conductor Wire GRC1048 Grille Cloth SFF2601R 10-32 x 13/16 Hex.Hd.Mach.Screw GRC1049 Grille Cloth SFF2601R

SFF2603 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-953 14-3311 14-3312 14-3313 16-1826 19-278 22-3374	Cabimet Back Conssole Cabinet - Model SFF2603W Conssole Cabinet - Model SFF2603R Conssole Cabinet - Model SFF2603E Packing Carton Conmector Clip (Pt. of S-50395) 1.0 Mfd Electrolytic Capacitor-20VAC (2 required)		49-896 49-916 83-3474 86-255 91-1757 96-292 96-293 96-294	5 1/4" PM Speaker (2 required) 10" PM Speaker (2 required) Line Cord Capacitor Strip Spade Terminal (Pt. of S-50395) 3-Conductor Wire Cabinet Leg (4 Pt. of 14-3311) Cabinet Leg (4 Pt. of 14-3312) Cabinet Leg (4 Pt. of 14-3313)	6.00 15.00

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
112-1203	8-15 x 1 Phils.Flat Hd.Self-Tap.Screw (6 Pt. of Cabinet)	.05	159-91 169-133	Plug Button (Pt. of 14-3311 & 14-3312) 4-Speed Record Changer	.10
	10-32 x 13/16 Hex.Hd.Mach.Screw Lockwasher Att. (2 required)		202-697	FM Instruction Book	
114-453 114-669	6-18 x 5/8 Slotted Hex.Hd.Self-Tap. Screw (9 Mt. 2-953) 6-18 x 1/2 x 1/4 Hex.Hd.Self-Tap.	.10		Instruction Book Terminal Strip (2 required) FM Antenna	.20
114-009	Screw (8 required) Chassis Mtg. Screw (4 required)	.03	GRC934 GRC935	Grille Cloth - Model SFF2603R Grille Cloth - Model SFF2603E & W	
159-90	Plug Button (Pt. of 14-3313)	.15	HDW1000	l Metal Trim	

SFF2605 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-962 14-3270	Cabinet Back Cabinet Base Frame - Model SFF2605W	, ,	112-1203	8-15 x 1 Phils.Flat Hd.Self-Tap.Screw (6 required)	.05
14-3272 14-3274	Cabinet Top Section - Model SFF2605W Cabinet Base Frame - Model SFF2605R		113-66	10-32 x 13/16 Hex.Hd.Mach.Screw Lockwasher Att. (2 required)	
14-3276 14-3278	Cabinet Top Section - Model SFF2605R Cabinet Base Frame - Model SFF2605E		114-453	6-18 x 5/8 Slotted Hex.Hd.Self-Tap. Screw (9 Mt. 2-962)	.10
14-3280	Cabinet Top Section - Model SFF2605E		114-669	6-18 x 1/2 x 1/4 Hex.Hd.Self-Tap.Screw (8 required)	.03
16-1829 22-2945	Packing Carton 3 Mfd.Electrolytic Capacitor-30V		114-748	Chassis Mounting Screw	
27-324	(l Pt. of ea. 49-856) Turntable Insert (Pt. of 169-131)	1.25	159-90 159-91	Plug Button (Part of 14-3278) Plug Button (Pt. of 14-3270 &14-3274)	.15 .10
49-852 49-856	12" PM Speaker (2 required) 5" PM Speaker (2 required)	16.00 7.00	169-131 199-315	4-Speed Record Changer Brass Sleeve (4 required)	
57-3005 57-3007	Name Plate Background (Pt.of 169-131) Name Plate Overlay (Pt.of 169-131)		202-697 202-1662	FM Instruction Book Instruction Book	
83-3474	Line Cord Capacitor Strip		S-26657 S-50395		.20
86-255 91-1757	Spade Terminal (Pt. of S-50395) 3-Conductor Wire		GRC1020	Grille Cloth - Model SFF2605E	
96-316 96-317	Cabinet Leg (4 Pt. of SFF2605W) Cabinet Leg (4 Pt. of SFF2605R)		GRC 1021 GRC 1022	Grille Cloth - Model SFF2605R	
96-318	Cabinet Leg (4 Pt. of SFF2605E)		HDW2004	Polished Brass Handle	

SFF2606 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-965	Cabinet Back		113-66	10-32 x 13/16 Hex.Hd.Mach.Screw	
14-3318	Console Cabinet - Model SFF2606W			Lockwasher Att. (2 required)	
14-3319	Console Cabinet - Model SFF2606R		114-453	$6-18 \times 5/8$ Slotted Hex.Hd.Self-Tap.	
16-1833	Packing Carton			Screw (9 Mt. 2-965)	.10
22-2945	3 Mfd.Electrolytic Capacitor-30V		114-669	$6-18 \times 1/2 \times 1/4$ Hex.Hd.Self-Tap.Screw	
	(1 Pt. of ea. 49-856)	1,25		(8 required)	.03
27-324	Turntable Insert (Pt. of 169-131)		114-748	Chassis Mounting Screw (4 required)	
49-852	12" PM Speaker (2 required)	16.00	159-91	Plug Button (Pt. of Cabinet)	.10
49-856	5" PM Speaker (2 required)	7.00	169-131	4-Speed Record Changer	
57-3007	Name Plate Background (Pt. of 169-131)		188-54	Knob Clamping Ring	
83-3474	Line Cord Capacitor Strip		202-697	FM Instruction Book	
86-255	Spade Terminal (Pt. of S-50395)		202-1662	Instruction Book	
91-1757	3-Conductor Wire		S-26657	Terminal Strip (1 Pt. of ea. 49-856)	.20
112~1203	8-15 x 1 Phils. Flat Hd. Self-Tap. Screw		S-50395	FM Antenna	
112 1200	(6 required)	.05	GRC 1059	Grille Cloth	

SFF2607M CABINET PARTS

DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
Cabinet Back		57-3005 57-3007	Name Plate Background (Pt. of 169-131) Name Plate Overlay (Pt. of 169-131)	
Packing Carton		83-3474	Line Cord Capacitor Strip	
	4 05			
F * * * * * * * * * * * * * * * * * * *	1.25	112-1203	(6 required)	.03
12" PM Speaker (2 required)	16.00	113-66	10-32 x 13/16 Hex.Hd.Mach.Screw	
5" PM Speaker (2 required)	7.00		Lockwasher Att. (2 required)	
	abinet Back console Cabinet cacking Carton Mfd.Electrolytic Capacitor-30V Pt. of ea. 49-856) Curntable Insert (Pt. of 169-131) 2" PM Speaker (2 required)	abinet Back console Cabinet cacking Carton Mfd.Electrolytic Capacitor-30V Pt. of ea. 49-856) Curntable Insert (Pt.of 169-131) 2" PM Speaker (2 required) 16.00	abinet Back 57-3005 console Cabinet 57-3007 cacking Carton 83-3474 Mfd.Electrolytic Capacitor-30V 96-323 Pt. of ea. 49-856) 1.25 112-1203 Curntable Insert (Pt.of 169-131) 2" PM Speaker (2 required) 16.00 113-66	abinet Back onsole Cabinet console Capacitor Addition Add

PART	<u>DESCRIPTION</u>	PRICE	PART	DESCRIPTION	PRICE
114-453	6-1≅ x 5/8 Slotted Hex.Hd.Self-Tap.		169-131	4-Speed Record Changer	
	Scr ew (9 Mt. 2-967)	.10	202-697	FM Instruction Book	
114-669	6-18 x 1/2 x 1/4 Hex.Hd.Self-Tap.Screw		202-1662	Instruction Book	
	(2 r-equired)	.03	S-26657	Terminal Strip (1 Pt. of.ea. 49-856)	
114-748	Chassis Mounting Screw (4 required)		S-50395	FM Antenna	
159-90	Plu _≇ g Button		GRC1044	Grille Cloth	

SFF2515T & SFF2615 CABINET PARTS

PART	DES CRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-970	Cab inet Back		159-91	Plug Button	.10
14-3324	Con=sole Cabinet - Model SFF2515WT		169-135	Four Speed Record Changer	•10
14-3325	Console Cabinet - Model SFF2515W1		188-155	Knob Clamping Ring (Pt. of S-51122)	.05
14-3326	Console Cabinet - Model SFF2515ET		188-249	Knob Clamping Ring (Pt. of S-48043)	.03
14-3387	Reccord Storage Well (SFF2515)		202-697	FM Instruction Book (SFF2615)	•••
16-1841	Packing Carton (SFF2515)			Instruction Book (SFF2615)	.40
16-1845	Packing Carton (SFF2615)			Instruction Book (SFF2515)	•
17-165	Trim Strip Retaining Clamp (SFF2515)		S-26657	Terminal Strip Assembly (2 used)	.20
19-169	Record Changer Retaining Clip (2 used)	.10	S-46112	45 RPM Record Adapter	5.00
19-346	Mou nting Clip (45 RPM Adapter)	.30	S-47257	Bracket & Socket Assembly	1.00
22-2945	Electrolytic 3 Mfd. 30V (2 used)	1.25	S-47260	Plug & Wire Assembly - Jumper	
27-324	Turritable insert (Pt. of 169-135)			(2 used)	.40
40-225	Lid Support Hinge		S-48043	Knob & Ring Assembly - Reverberation	.75
	(Pt. of 14-3324 & 14-3325)	2.50	S-50395	(FM Antenna)	
40-226	Lid Support Hinge (Pt. of 14-3326)	2.50	S-51042	Reverberation Assembly (R.R)	
40-233	Lid Hinge (2 Pt. of 14-3324 & 14-3325)	.60	S-51122	Knob & Ring Assembly - Bass Tone	
40-234	Lid Hinge (2 Pt. of 14-3326)	.60	S-51140	Final Chassis Assembly - 3F21	
46-2263	Cont_rol Knob (3 used)	.50		Grille Cloth (Narrow - Pt. of 14-3324)	
46-2284	Knob (Balance)	.50	GRC 1046	Grille Cloth (Narrow - Pt. of 14-3325)	
46-2586	Knob (Monaural - Stereo)			Grille Cloth (Narrow - Pt. of 14-3326)	
49-896	5 1/4" PM Speaker (2 used)	6.00		Grille Cloth (Wide 2 Pt. of 14-3324)	
49-903	12" PM Speaker (2 used)	22.50		Grille Cloth (Wide 2 Pt. of 14-3326)	
52-874	Spealker Cable (2 used - is 43"		GRC 1074	Grille Cloth (Wide 2 Pt. of 14-3325)	
	of 911757)	.70			
54-312	Speed Nut Tinnerman (2 Pt. of 14-3324,		86-304	Connector Terminal (3 used)	.05
	3325 & 3326)	.03	86-333	Connector Terminal (12 used)	.03
54-385	$6-32 \times 5/16$ Hex Nut (2 used on ea. 49-86	19	96-257	Cabinet Leg L.H. (2 Pt. of 14-3324)	
	& 1 ∞ n ea. S-26657)	.03	96-258	Cabinet Leg R.H. (2 Pt. of 14-3324)	
54-424	$8-32 \times 11/32$ Hex Palnut (4 used on ea.		96-259	Cabinet Leg L.H. (2 Pt. of 14-3325)	
	49-9€3)	.03	96-260	Cabinet Leg R.H. (2 Pt. of 14-3325)	
57-2498	Emblem Plate (Pt. of 14-3324, 3325 & 33	,	96-261	Cabinet Leg L.H. (2 Pt. of 14-3326)	
57-2694	Leg Mounting Plate (4 Pt. of ea. 14-3324	,	96-262	Cabinet Leg R.H. (2 Pt. of 14-3326)	
	3325 & 3326)	.40		Record Changer Mounting Screw (2 used)	.20
57-2815	Name Plate - Extended Stereo (Pt. of		112-1265	6-32 x 1 1/4 Speaker Mounting Screw	
	14-3\(\frac{1}{3}\)24, 3325 \(\lambda\) 3326)	1.25		(4 Pt. of 14-3324, 3325 & 3326)	
57-3005	Name Plate Background (Pt. of 169-135)		113-66	10-32 x 3/16 Hex Head Machine Screw	
57-3007	Name Plate Overlay (Pt. of 169-135)		440 4000	(2 required)	
57-3020	Control Panel		112-1269	8-32 x 1 1/2 Speaker Mounting Screw	
58-226	5 Prong Plug (2 Pt. of S-47260)	.15	444.40	(8 Pt. of 14-3324, 3325 & 3326)	.10
70-142	#8 x -3/8 Phils. Round Head Wood Screw		114-42	Chassis Mounting Screw (3 Mts. 2F30)	.05
50 100	(2 mt. 14-3387 on SFF2515)		114-386	Chassis Mounting Screw (4 Mts. 7F30)	.10
72-136	#4 x 3/8 Phils. Flat Head Wood Screw	0.4	114-453	6-18 x 5/8 Slotted Hex Head Self-Tap	10
TO 1000	(3 mt. 57-3020)	.04	111 000	Screw (7 Mts. 2-970)	.10
78-1036	5 Corntact Socket (2 Pt. of S-47257)	.25	114-626	8-15 x 5/16 x 1/4 AF Hex Head Self-Tap	0.9
83-765	Armite Strip (10 used)	.03	114 000	Screw (8 used on S-51042)	.03
83-1475	Armite Strip (4 used)	.03	114-669	6-18 x 1/2 x 1/4 AF Hex Head Self-Tap	
83-2535	Phon Shipping Strip	.03		Screw (2 Mts. each 19-346 & S-47257 &	0.9
83-3226	Locking Strip	.15	114 080	2 used on 2F30 & 7F20)	.03
83-3393 83-3505	Felt Strip	.03	114-679	Chassis Mounting Screw (3 Mts. 3F21	.05
83-3520	Control Panel Trim Strip		126-957	Shield Strip Motel Crille (Pt. of 14-3324)	
86-255	Recomd Well Trim Strip (SFF2515)		138-294 142-110	Metal Grille (Pt. of 14-3324) Dual Pickup Cartridge - Diamond - Sappl	ire
00-200	Spade Terminal (Pt. of S-50395)		174-110	Put Licent carringe - Piamona - pathi	111 6

SFF2535 CABINET PARTS

PART	DESC RIPTION	PRICE	PART	DESCRIPTION	PRICE
2-954 12-2608 14-3322 14-3323	Conscole Cabinet - SFF2535R	4.00 .05		Record Storage Well Packing Carton Trim Strip Retaining Clamp (Pt. of 14-3387)	

PART	DESCRIPTION	PRICE	PART	<u>DESCRIPTION</u> <u>PE</u>	RICE
19-169	Record Changer Retaining Clip	.10	90-367	Indicator light tube	.05
19-346	Mounting Clip (45 RPM Adapter)	.30	93-1358	Felt Washer	.05
22-2945	3 Mfd. Electrolytic 30V (2 used)	1.25	93-1359	Felt Washer (2 used)	.03
27-324	Turntable insert (Pt. of 169-134)		93-1360	Felt Washer	.05
40-225	Lid Support Hinge			Record Changer Mounting Screw (2 used)	.20
	(Pt. of 14-3322 & 3323)	2.50	112-1265	6-32 x 1 1/4 Speaker Mounting Screw	
40-233	Lid Hinge (2 Pt. of 14-3322 & 3323)	.60		(4 Pt. of 14-3322 & 3323)	
46-2263	Bandswitch Knob	.50	112-1269	8-32 x 1 1/2 Speaker Mounting Screw	
46-2266	Loudness Control Knob	.75		(8 Pt. of 14-3322 & 3323)	.10
46-2586	Stereo Switch Knob	10.00	114-80	Chassis Mounting Screw (3 mt. 3F32)	.05
49-852	12" PM Speaker	16.00	114-386	Chassis Mounting Screw (4 mt. 9F26)	.10
49-856	5" PM Speaker	7.00	114-423	8-18 x 5/16 Hex Head Self-Tap Screw	.03
52-874	Speaker Cable (Made from 91-1757	MO	114 450	(1 used on ea. 80-1233)	.03
50 000	2 used)	.70	114-453	6-18 x 5/8 Slotted Hex Washer Head Self-	.10
52-892	Antenna Cable (Pt. of S-50916)	.25 ·	114-636	Tap Screw (2 mt. S-44649 & 9 mt. 2-954) 8-18 x 3/8 Special Hex Head Self-Tap	.10
54-312	Speed Nut-Tinnerman (2 Pt. of 14-3322	.03	114-030	Screw - Flat Washer Attached (6 mt.	
54-424	& 3323) 8-32 x 11/32 Hex Palnut (4 Mts. ea. 49			57-3051)	.05
54-424 54-502	$6-32 \times 11/32$ Hex Parint (4 Mts. ea. 45 $6-32 \times 1/4$ Hex Nut (2 Mts. ea. 49-856)	.03	114-669	$6-18 \times 1/2 \times 1/4$ AF Hex Head Self-Tap	.00
57-2498	Emblem Plate (Pt. of 14-3322 & 3323)	.35	114-003	Screw (7 used)	.03
57-2435	Name Plate - Extended Stereophonic	.00	142-108	Dual Pickup Cartridge (Sapphire-Sapphire	
01-2010	(Pt. of 14-3322 & 3323)	1.25	165-39	Cabinet Caster (4 Pt. of 14-3322 & 3324)	,
57-3005	Name Plate Background		200 00	• • • • • • • • • • • • • • • • • • •	
0. 0000	(Pt. of 169-134)				
57-3007	Name Plate overlay (Pt. of 169-134)				
57-3051	Radio Dial Escutcheon		169-134	Four Speed Record Changer	
58-226	Five Prong Plug (2 Pts. S-47260)	.15	171-19	Indicator Light Lens (Pt. of 14-3322 & 332	3)
70-142	#8 x 3/8 Phillips Rd. Head Wood Screv	7	188-54	Knob Clamping Ring (Pt. of S-44166)	.03
	(2 used)		188-155	Knob Clamping Ring (Pt. of S-47939)	.05
78-1036	Five Contact Socket (2 Pt. of S-47257)	.25	192-298	Dial Crystal	
78-1037	Indicator Light Socket & Wire	.50	202-697	FM Instruction Book	.10
80-1003	Knob Retaining Spring (1 Pt. of ea.			Instruction Book	.40
	S-50475, 50482 & S-50483)	.10	S-26657	Terminal Strip Assembly (1 Pt. of ea.	
80-1233	Crystal Retaining Spring (4 used)	.10		49-856)	.20
83-765	Armite Strip (5 used)	.03	S-44649	Antenna Assembly	1.50
83-1475	Armite Strip (2 used)	.03	S-46112	45 RPM Record Adapter Assembly	5.00
83-2123	Antenna Terminal Strip	.25	S-47257	Bracket & Socket Assembly	1.00
83-2535	Phono Shipping Strip (2 used)	.03	S-47260	Plug & Wire Assembly - Jumper (2 used)	.40 .75
83-2932	Rubber Channel Strip (2 used)	.20	S-47939	Knob & Ring Assembly (Balance)	
83-3474	Line Cord Capacitor Strip	<i>₩</i> \	S-50395	Wire & Terminal Assembly (FM Antenna)	ı
83-3520 86-255	Record Well Trim Strip (Pt. of 14-338		S-50475 S-50482	Knob & Spring Assembly (Bass) Knob & Spring Assembly (Treble)	
86-255 86-304	Spade Terminal (3 used 2 Pt. of S-509 Connector Terminal (5 used)	.05	S-50483	Knob & Ring Assembly (Presence)	
86-333	Connector Terminal (8 used)	.03	S-50463 S-50916	Antenna Lead & Terminal Assembly	
00-000	Connector Terminar (o useu)	•00	5-00010	Intellia Lead & Ici mina rissembly	

SFF2560, SFF2570, SFF2575, SFF2580, SFF2582, AND SFF2585 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-956	Cabinet Back - Model SFF2570		20-751	Speaker Inductor Coil (2 required excep	
2-959	Cabinet Back - Model SFF2575	_		on SFF2560)	1.25
2-960	Cabinet Back - Models SFF2580,SFF258	2	22-2945	3 Mfd. Electrolytic - 30V (2 required)	
2-96 1	Cabinet Back - Model SFF2585		27-324	Turntable Insert (Pt. of 169-132)	
12-2608 12-3004	Indicator Light Mounting Bracket Slide Mounting Bracket	.05	33-188	Record Changer Mtg. Frame (except on SFF2560)	
14-3226	Console Cabinet - Model SFF2575		36-220	Record Changer Handle (except on	
14-3294	Console Cabinet - Model SFF2570W	3		SFF2560)	1.00
14-3295	Console Cabinet - Model SFF2570E		46-2263	Bandswitch Knob	.50
14-3296	Console Cabinet - Model SFF2570Y		46-2266	Loudness Control Knob	
14-3297	Console Cabinet - Model SFF2582		46-2284	Knob (Balance)	.50
14-3298	Console Cabinet - Model SFF2580		46-2586	Stereo Switch Knob	
14-3299	Console Cabinet - Model SFF2585		49-867	Horn Tweeter Speaker (2 required	
16-1807	Packing Carton - Model SFF2570			except on SFF2560)	30.00
16-1808	Packing Carton - Model SFF2575		49-903	12" PM Speaker (2 required)	22.50
16-1809	Packing Carton - Model SFF2580		52-825	Antenna Cable (except on SFF2560)	.25
16-1810	Packing Carton - Model SFF2585		52-873	Speaker Cable - Made from 91-1757	
16-1842	Packing Carton - Model SFF2582			(2 required except on SFF2560)	
19-9	Cable Clip (used on S-48823 except on		54-312	Speed Nut (2 Pt. of Cabinet)	.03
	Model SFF2560)	.05	54-385	6-32 x 5/16" Hex. Nut (12 required)	.03
19-210	Loop Connector Clip (2 Pt. of S-17917)	.05		•	
19-346	Mounting Clip (45 RPM Adaptor)	.30	54-424	8-32 x 11/32" Hex. Palnut-Washer Type	
	<u> </u>		~ ·	(4 used on ea. 49-903)	.03
19-375	Record Changer Retaining Clip (2 used		57-2498		.35
10 010	except on SFF2560)	.15	57-2750	Shield Plate	.25
	· • · · · · · · · · · · · · · · · · · ·				

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
57-2815	Name Plate - Extended Stereophonic		114-626	$8-15 \times 5/16 \times 1/4$ Hex. Hd. Self-tap.	
	(P-t. of Cabinet)	1.25	*** ***	Screw (8 required)	.03
57-3005 57-3007	Name Plate Background (Pt. of 169-132) Name Plate Overlay (Pt. of 169-132)		114-636	8-18 x 3/8 Hex. Hd. Self-Tap. Screw Flat Washer Att. (6 used on 57-3037)	.05
57-3037	Radio Dial Escutcheon		114-669	$6-18 \times 1/2 \times 1/4$ Hex.Hd. Self-Tap. Scre	
58-176	5- Prong Plug (2 required except on			(9 required)	.03
70.04	SF F2560)	.30	114-679	Chassis Mounting Screw (3 Mt. 3F23)	.05
72-84	8 × 11/2 Phils. Flat Hd. Wood Screw (2 us ed on 156-268 except on SFF2560)	0.9	114-747	Record Changer Mounting Frame Shipping Screw (except on SFF2560)	
78-346	5-Contact Socket (2 Pt. of S-47599 excep	.03 t	138-344	Metal Grill (Pt. of 19-3226 on	
	on SFF2560)	.20		SFF2575 only)	
78-1124	Indicator Light Socket & Wire	.75	142-110	Dual Pickup Cartridge (Diamond -	
80-1003	Krmob Retaining Spring (1 Pt. of ea.	.10	159 970	Sapphire)	
00 1000	S- 50475, S-50482 & S-50483)		152-278 152-279	Packing Spacer (except on SFF2560) Wood Block - record changer stop	
80-1233 83-765	Crystal Retaining Spring (4 required) Armite Strip (7 required)	.10 .03	102-210	(except on SFF2560)	
83-1317	Loop Insulating Strip (Pt. of S-17917	.00	159-112	Snap Fastener (used on 86-312 except	
	except on SFF2560)			on SFF2560)	.03
83-1475	Armite Strip (14 required)	.03	165-39	Cabinet Caster (4 Pt. of Cabinet on	
83-1884	Aratenna Terminal Strip	.30	166-112	SFF2580, SFF2582 & SFF2585) Rubber Bumper (2 used on 57-3037	
83-2932 86-30	Rubber Channel Strip (2 required) Terminal (Pt. of S-44823 except on	.20	100 112	except on SFF2560)	.03
00-00	SF F2560)	.03	166-122	Rubber Bumper (2 used on 57-3037	
86-255	Sp=ade Terminal (4 required)	.03		& SFF2582)	
86-270	T⇔rminal (2 Pt. of S-26657 except on		169-132	4-Speed Record Changer	40
00 004	SF-F2560)	.03	171-19 188-54	Indicator Light Lens (Pt. of Cabinet) Knob Clamping Ring (Pt. of S-44166)	.40 .03
86-304 86-312	Terminal (5 required) Terminal (not used on SFF 2560)	.05 .03	188-249	Knob Clamping Ring (Pt. of S-48043)	.03
86-333	Connector Terminal (20 required)	.03	192-298	Dial Crystal	,,,,
90-367	Indicator Light Tube	.05	202-697	FM Instruction Book	.10
91-1757	3-€Conductor Wire		202-1652		
93-1358	Fe lt Washer	.05	S-17325	Low Impedance Loop (Pt. of S=17917)	.40
93-1359	Fe lt Washer (2 required)	.03	S-17917	Low Impedance Loop, Clip & Strip Assy. (except on SFF2582)	.90
93-1360 100-67	Fe lt Washer	.05	S-18560	Record Changer Slide (2 required	. 30
112-1131	Indicator Light Bulb 6-E8 x 5/8" Phils. Flat Hd. Self-Tap.	.15	2 10000	except on SFF2560)	2.75
	Screw (3 used on ea. S-18560 except		S-44166	Tuning Knob & Ring Assy.	.75
	on SFF2560)	.03	S-46112	45 RPM Record Adaptor	5.00
112-1226	Record Change Mtg. Screw (2 required)	.20			
112-1266	6-32 x 1 1/2" Spkr. Mtg. Screw (8 Pt.	0.5	S-47599	Bracket & Socket Assy. (except on	4 00
112-1270	of Cabinet except on SFF2560) 8-32 x 1 3/4" Spkr. Mtg. Screw (8 Pt.	05	S-47602	SFF2560) Plug & Wire Assy. (2 required except	1.00
112-1210	of Cabinet except on SFF2560)		5-41002	on SFF2560)	.40
112-1327	8-1 8 x 5/16" Phils. Rd. Hd. Self-Tap.		S-48043	Knob & Ring Assy. (Reverberation)	.75
	Scr-ew (2 Mtg. ea. S-18560 except on		S-50475	Knob & Spring Assy. (Bass)	
110 05	SFF2560)	.03	S-50482	Knob & Spring Assy. (Treble)	.75
113-65	8-3=2 x 1/4 x 1/4 Hex. Hd. Mach.Screw-		S-50483	Knob & Ring Assy. (Presence)	
	loc kwasher att. (2 join 33-188 & 36-220 exc=ept on SFF2560)	.03	S-51042	Mechanical Reverberation Grille Cloth - Model SFF2570	
114-78	8-128 x 5/16 x 1/4 Hex. Hd. Self-Tap.	.00		Grille Cloth - Model SFF2580	
	Scr ew (2 used on 33-188 except on			Grille Cloth - Model SFF2582	
	SFE 2560)	.03	GRC1043	Grille Cloth - Model SFF2585	
114-386	Chassis Mtg. Screw (8 required)	.10		Grille Cloth - Model SFF2575	
114-423	8-128 x 5/16 Hex.Hd. Self-Tap. Screw	0.9		Door Pull - Model SFF2570	
114-453	(1 umsed on ea. 80-1233) 6-128 x 5/8 Slot.Hex.Washer Hd.Self-	.03		Hinge - Models SFF2580, SFF2585 Backplate - Models SFF2580, SFF2585	
100	Tap. Screw (9 Mt.Cabinet Back)	.10		Knife Hinge - Left Hand (2 Pt. of	
114-485	6-18 x 1/2 Hex.Hd.Self-Tap Screw			SFF2582 Cabinet)	
	(1 u=sed on ea. 12-2608 & 19-9 except		HDW 3011	Knife Hinge - Right Hand (2 Pt. of	
	on SFF2560)	.03		SFF2582 Cabinet)	

CABINET PARTS FOR SFF 2560 ONLY

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-973 14-3359 14-3360	Cab inet Back Con sole Cabinet - Model SFF2560W Con sole Cabinet - Model SFF2560Y		40-225 40-226 40-233	Lid Support (Pt. of 14-3359) Lid Support (Pt. of 14-3360) Lid Hinge (2 Pt. of 14-3359)	2.50 2.50 .60
14-3387 16-1840	Rec ord Storage Well Packing Carton		40-234 49-782	Lid Hinge (2 Pt. of 14-3360) 3 1/2" PM Tweeter Speaker (2 required	.60) 4.50 6.00
19-169	Rec-ord Changer Retaining Clip (2 required)	.10	49-896 49-903	5 1/4" PM Speaker (2 required) 12" PM Speaker (2 required)	22.50
19-278 22-2774	Connector Clip .22 Mfd. Capacitor - 200V (2 required)	.10 .35	52-874 52-892	Speaker Cable - 43" (2 required) Speaker Cable (Pt. of S-50916)	.70 .25

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
83-2145 85-680 86-333 95-1701 112-943	±5 Lug. Terminal Strip ⇒3 Position Switch ◆Connector Terminal (6 required) Audio Choke (Pt. of S -50862) •6-32 x 1 Spkr. Mtg. Screw (6 Pt. of	.10	114-453 114-701 125-100 S-26657	6-18 x 5/8 Hex. Washer Hd. Self - Tap. Screw (4 Mt. 2-975) 8-15 x 3/8 Hex. Washer Hd. Self - Tap. Screw (3 used on S-50862) Strain Relief Grommet Terminal Strip	.10 .03 .15 .20
	14-2864)	.03	S-50862	Filter Mounting Plate	

FR 103 CABINET PARTS

PART	DESCRIPTION . I	PRICE	PART	DESCRIPTION	PRICE
12-3028 14-3376	Speaker Mounting Bracket Table Cabinet		86-328 86-333	Wire Terminal (Pt. of S-51185) Connector Terminal (2 required)	.03 .03
16-1860	Packing Carton		95-1701	Audio Choke (Pt. of S-51185)	
22-3196	80 Mfd. Electrolytic-25V. (2 required)	2.00	112-1265	6-32 x 11/4 Spkr. Mtg. Screw (4 Pt. of	
49-937	51/4" PM Speaker			14-3376)	
49-938	2" PM Speaker		112-1336	4-40 x 1/4 Phils. Pan Hd. Mach. Screv	V
54-379	Tinnerman Speed Nut (used on Ea.			(used on Ea., 80-1323)	
	1 12-1336)	.03	112-1340	6-18 x 3/4 Phils. Oval Hd. Self-Tap.	
54-385	6-32 x 5/16 Hex. Nut (4 Mt. 49-937)	.03		Screw (4 required)	
58-226	5 Prong Plug	.15	114-767	$4-24 \times 5/16 \times 1/4$ Hex. Hd. Self-Tap.	
80-1323	Speaker Retaining Spring (3 used on 49-			Screw (3 required)	
	93 8)	.10	166-97	Bumper (4 Pt. of 14-3376)	.05
83-2145	5 Lug. Terminal Strip (Pt. of S-51185)	.10	S-51185	Filter & Mtg. Plate Assem.	

FR 105 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-978	€ Cabinet Back				
14-2865	Table Cabinet		58-176	5 Prong Plug (Pt. of S-50859)	.30
16-1856	Packing Carton		83-2145	5 Lug. Terminal Strip (Pt. of S-50862)	.10
22-2945	3 Mfd. Electrolytic-30V.	1.25	85-680	3 Position Switch	
22-3196	-80 Mfd. Electrolytic-25V. (2 required)	2.00	86-333	Connector Terminal (6 required)	.03
46-2614	Switch Knob		95-1701	Audio Choke (Pt. of S-50862)	
49-867	Horn Tweeter Speaker	30.00	112-943	6-32 x 1 Swedge Hd. Mach. Screw (8 P	
49-902	€ x 9 PM Speaker	9.00		of 14-2865)	.03
52-929	Speaker Cable	1,	. 114-701	$8-15 \times 3/8 \times 1/4$ Hex. Washer Hd. Self	
54-34	\bullet 6-32 x 1/4 Hex. Nut (8 Pt. of 14-2865)	.03		Tap. Screw (3 used on S-50862)	.03
54-139	$-3/8-32 \times 9/16$ Hex. Palnut (used on		114-453	6-18 x 5/8 Hex. Washer Hd. Self-Tap.	
	≲ -50862)	.03		Screw (4 Mt. 2-978)	.10
54-385	€-32 x 5/16 Hex. Nut (1 Mts. S-26657 &	ž	125-100	Strain Relief Grommet	.15
	4 Mt. Ea. 49-867 & 902)	.03	S-26657	Terminal Strip	.20
54-469	Tinnerman Speed Mt. (Pt. of 14-2865)	.10	S-50859	Cable & Plug. Assembly	
57-2816	Name Plate (Pt. of 14-2865)	.35	S-50862	Filter Mounting Plate	k.

FPS 30 CHASSIS PARTS

Condenser .047 Mfd. 200 V. Electrolytic 80 x 20-150 V x 20-25 V Resistor 22 Ohm 1/2 W Ins. 20% '' 33 '' 1/2 W '' 20% '' 115 '' 5 W '' 10% '' 2200 '' 1/2 W '' 20%	.17 .17 .80 .17	WC13069 Remote Vol. Con. & Sw. WC13706 Output Trans. (Remote Spk.) WC13786 Master Vol. Con. (2 Meg.) WC13970 Stereo-Monaural Sw. WC14027 Silicon Rectifier (5E4) WC14132 47 Ohm Fusing Resistor (100MA) (10%)	2.05 2.00 1.40 1.40 3.40 .50
" 39K" 1/2 W" 20%	.17	TUBES 2-50EH5	

FPS 30 CABINET PARTS

WC8266 -B	Hinge	.10	-6B	Handle Assem. (includes handle & two plates)	.50
WC8561	nEngo	•10	WC13745	F /	
-B	Turntable Hold Down Spring	.05	-8	Motor only (Ali)	13.50
WC11792	4' P.M. Spk. (less Trans.) (Remote)	5.00	WC13746		
WC11837B	C₌atch	.20	-8'	" " (G.L.)	13.50
WC12126			WC13747		
-8E	Krnob (3 used)	.20	-58	Turntable only (Ali)	2.00
WC13688			WC13748		

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	P-RICE
58-226	5-Prong Plug (1 Pt. of S-47260)	.15	110 1005	0.00 4.4/4/.0.3 25/.0.0	
70-142	8 x 3/8 Phils. Rd. Hd. Wood Screw (2 required)		112-1265	6-32 x 1 1/4" Spkr. Mtg. Screw (8 Pt. of Cabinet)	•
78-1036	5-Contact Socket (2 Pt. of S-47257)	.25	112-1269	8-32 x 1 1/2" Spkr. Mtg. Screw	
83-2535	Phono Shipping Strip	.03		(8 Pt. of Cabinet)	.10
83-3474	Live Cord Capacitor Strip		166-122	Rubber Bumper (2 used on 57-3037)	
96-335	Cabinet Leg - Right Hand (2 Pt. of		S-47257	Bracket & Socket Assy.	1.00
	Cabinet)		S-47260	Plug & Wire Assy. (2 used on S-47257)	.40
96-336	Cabinet Leg - Left Hand (2 Pt. of		S-50916	Ant. Lead & Terminal Assy.	
	Cabinet)		GRC1070	Grille Cloth	

DR 60 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PFRICE
12-2684	Baffle Mounting Bracket (2 Pt. of Ea.		22-3196	80 Mfd. Electrolytic - 25 V. (2 used)	2.00
	139-121)	.10	49-902	6 x 9 PM Speaker (1 used in Ea. 14-2503	9.00
14-2503	Plastic Table Cabinet (2 Used)		54-12	$6-32 \times 5/16$ Hex. Nut (5 used on Ea.	
16-1735	Packing Carton			14-2503)	03
17-149	Cable Clamp (l Pt. of Ea. S-49044)	.05	58-226	5 Prong Plug (2 used)	.15

FR 100 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-976	Cabinet Back		58-226	5 Prong Plug	
14-2838	Table Cabinet-FR100H		83-2145	5 Lug Terminal Strip	
14-2863	Table Cabinet-FR100L		86-333	Connector Terminal (2 required)	
16-1853	Packing Carton		95-1701	Audio Choke (Pt. of S-50862)	
22-3196	Electrolytic (2 required)		112-943	6-32 x 1 Speaker Mtf. Screw (4 Pt.	
46-2614	Switch Knob			of Cabinet)	
49-902	6 x 9 PM Speaker		114-453	6-18 x 5/8 Hex. Washer Hd. Self Tap	•
54-34	6-32 x 5/16 Hex. Nut (4 Mt. 49-902))		Screw (4 Mt. 2-976)	
	(4 Pt. of Cabinet)		114-701	8-15 x 3/8 Hex. Washer Hd. Self Tap	•
54-139	3/8-32 x 9/16 Hex. Palnut (Mts. 85-6	380)		Screw (3 Mt. S-50862)	-
54-569	Tinnerman Speed Nut (Pt. of Cabinet	t)	125-100	Strain Relief Grommet	
57-2816	Name Plate (Pt. of Cabinet)		S-50862	Filter Mounting Plate	

FR 101 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-977	Cabinet Back				
14-2945	Table Cabinet-FR101H		85-680	3 Position Switch	
14-2946	Table Cabinet-FR101L		86-333	Connector Terminal (2 required)	.03
16-1854	Packing Carton		95-1701	Audio Choke (Pts. of S-50862)	
22-3196	80 Mfd. Electrolytic-25V		112-1265	6-32 x 11/4 Speaker Mounting Screw	
	(2 Required)	2.00		(4 Pt. of 19-2945 & 2946)	
46-2614	Switch Knob		114-701	8-15 x 3/8 Hex. Washer Hd. Self-	
49-835	71/2" PM Tweeter Speaker	7.50		Tap. Screw 3 Mt. S-50862	.03
54-34	6-32 x 5/16 Hex. Nut (Mt. 49-835)	.03	114-453	6-18 x 5/8 Hex. Washer Hd. Self-	
54-139	3/8-32 x 9/16 Hex. Palnut			Tap. Screw 4 Mt. 2-977	.10
	(Mts. 85-680	.03	125-100	Strain Relief Grommet (used on	
58-226	5 Prong Plug	.15		S-50862)	.15
83-2145	5 Lug Terminal Strip	.10	S-50862	Filter Mounting Plate	

FR 102 CABINET PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
2-975 14-2864 16-1844 22-2945 22-3196 46-2614 49-782 49-902	Cabinet Back Table Cabinet Packing Carton 3 Mfd. Electrolytic-30V. 80 Mfd. Electrolytic-25V. (2 required Switch Knob 31/2'' P.M. Tweeter Speaker 6 x 9 P.M. Speaker) 2.00 4.50 9.00	54-34 54-139 54-469 57-2816 58-226	6-32 x 5/16 Hex. Nut (1 Mts. S-26657, 2 Mt. 49-782 & 4 Mt. 49-902) (6 Pt. of 14-2864) 3/8-32 x 9/16 Hex. Palnut (Mts. 85-680) Tinnerman Speed Nut (Pt. of 14-2864) Name Plate (Pt. of 14-2864) 5 Prong Plug	.03 .03 .10 .35

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PERICE
-58 WC13756	" (G.I.)	2.00		Remote Back External Spk. Cable & Plug (9 Ft.)	.75 1.50
-5 WC13960	Tone Arm & Rest Master & Remote Case (with hardware	11.00		Motorboard	5.00
W C10000	grille cloth, emblems & grille printing less motorboard, amplifier panel & re	g	-4 57-1721	Amplifier Panel & Phono Jack Emblem Plate	1.60 .25
WC13969	mote cover) 4'' P.M. Spk. & Trans.	7.00	141-101 56-417	Stereo Cartridge & Needles 1 Mil. Mfg. Sapphire Tip Needle	12.75 1.50
WC14011 -9	Back Screen	.60	56-418 202-1547	3 '' '' '' '' Instruction Book	1.50 .25

FPS 45 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	P RICE
22-1843 22-2245 22-2795	Condenser .01 Mfq. 600V. Condenser .068 Mfd. 600V. Condenser .047 Mfd. 200V. Resistor 4700 Ohm 1/2 W. 20% Resistor 68 K. Ohm 1/2 W. 20% Resistor 680 K. Ohm 1/2 W. 20% Resistor 150 Ohm 1 W. 20% Resistor 2200 Ohm 1 W. 20%	.30 .45 .25 .17 .17 .17 .25	WC 13650 WC 13706 WC 14027 WC 14132	Resistor 115 Ohm 5 W. 10% Volume Control Tone Control Output Transformer Silicon Rectifier Fusing Resistor 47 Ohm Electrolytic 150/150V. 20/150V. 20/25V.	.75 1.40 2.35 2.00 3.40 .50

FPS 45 CABINET PARTS

WC10683-B	Hinge Cover	.25	WC14693	4" x 6" Speaker	
WC11819	Recessed Nut	.30	WC 14748	Case Assembly with Hardware	
WC12126-8E	Knob	.25		& Motorboard (Less Back Vent,	
WC12861B-1	Hinge, Remote Right	.35		Vent Panel, Amplifier Panel, &	
WC13448-8B	Handle Assem. (Handle & 2 Plates)	.60		Remote Cover)	
WC13934B-1	Hinge Remote Left	.35	WC14752	Instructions	
WC13999	Back Vent	.50	56-441	2.5 mil. Sapphire Tip Needle	
WC14103	Amplifier Panel		56-442	.75 mil. Sapphire Tip Needle	
WC14104	Vent Panet		57-1721	Emblem Plate	.25
WC14124-6	Remote Cover		142-113	Cartridge With Needles	
WC14158-B	Catch	.20	169-137	Record Changer (For Components,	J
WC14160	External Speaker Cable (With Phono			See Parts List)	
,	Plug, Sleeve & Celon)	1.50	202-1701	Instruction Book	
WC14692	4" x 6" Speaker		S-46112	45R.PM Adaptor (Accessory)	5.00

FPS 50 CHASSIS PARTS

PART	DESCRIPTION	PRICE	PART	<u>DESCRIPTION</u>	PRICE
22-1843 22-2078 22-2245 WC14690	Condenser .01 Mfd. 600V. Condenser .047 Mfd. 600V. Condenser .068 Mfd. 600V. Electrolytic 150/150V. 20/150V. Resistor 33 Ohm 1W. Ins. 10% Resistor 150 Ohm 1/2W. Ins. 10% Resistor 220 Ohm 1/2W. Ins. 10% Resistor 270 Ohm 1/2W. Ins. 10%		W C14132 W C13229 W C13501 W C13706 W C14027 W C14642	Resistor 47K Ohm 1/2W. Ins. 10% Fuse Resistor 47 Ohm 3W. Volume Control (5 meg) Balance Control (1 meg) Transformer Rectifier Tone Control (50K)	

FPS 50 CABINET PARTS

WC10683-B WC11502 WC11837-B WC12126-3E WC12861B-1	Hinge Cover Mounting Protector Catch Knob Assembly (3 used) Remote Hinge Right	W C14694 W C14696	6" Speaker (2 used) Case Assembly with Hardware & Motorboard (Less amplifier panel & remote cover)
WC12601B-1 WC13065 WC13274 WC13289 WC13448-8B WC13626 WC13934B-1	Tee Nut Speaker Cord Mounting Board Protector Handle Assembly Adjustment Screw Remote Hinge Left	WC14754 WC14755 WC14762 57-1721 142-103 169-119	Metal Panel Instruction Sheet Remote Cover Emblem Plate Cartridge Record Changer (See parts list for
WC14117 WC14327	Recessed Nut Cable (Audio)	202-1702	components) Instruction Book

PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
•	FP	S 80	CHASSIS	PARTS	
22-1842	Condenser .01 Mfd. 600V.			Resistor 2.2 Megohm 1/2W. In Resistor 10K Ohm. 1W. Ins. 2	
22-2634	Condenser .04 Mfd. 400V.			Resistor 150Ohm. 2W. Ins. 20	
22-2673	Condenser 22 Mfd. 500V.	.25	WC1322		
22-2976 WC14244	220 Mmf. Ceramic Disc. Electrolytic 30/350 15/300 25/2	.30.			1.40
11011111	Resistor 330 Ohm. 1/2W. Ins. 2		WC1380 WC1348		13.00
	Resistor 82K Ohm. 1/2W. Ins. 2		WC1416		
	Resistor 100K Ohm. 1/2W. Ins.		WC1416	• · · · · · · · · · · · · · · · · · · ·	
	Resistor 270K Ohm. 1/2W. Ins.	20% .17	WC1424	5 Output Transformer	
	FP	S 80	CABINET	PARTS	
W'C10683-	B Hinge	.25			
WC12006E	· ·	.75		8 Instruction Sheet	
W'C13132-	9KA Knob Assembly (Loudness, Bass		WC1476	·	
W/C12122	& Treble) 9K=B Knob Assembly (Balance)		WC1476	1 Grille Panel (With Baffle, Cres Swedge Bolts and Mounting Tra	
WC13132-	Motorboard Protector	.10	WC1476		ick)
WC13557-		1.00		3-A2 Hinge R. H.	
WC13975	8" Speaker		WC1476		
WC14181 WC14238	Fxt. Speaker Cable 12 (2 used) Audio Cable		WC1476 19-346	4A2 Hinge L. H. Mounting Clip (For S-46112)	.30
WC14246	Pickup Holder		56-436	Needle Assembly (.7 Mil Sappl	
WC14256	5 1/4" Speaker (2 used)		56-438	Needle Assembly (3 Mil Sapphi	
WC14263- WC14318-			57-1721 142-111		.25
WC14310-	Case with Hardware & Motorboa	ırd	169-141	Record Changer (See Parts Lis	st for
	(Less Front Grille, Amplifier P			Parts)	
W.O. LABER	Trim Strip & Vent Plate)		202-170 S-46112		5.00
WC14757	Amplifier Panel		5-40112	40 K. P. M. Record Adaptor	0.00
	מה	C 90	CHASSIS	DARTS	
	DK	3 03	CHASSIS	PARIS	
PART	DESCRIPTION	PRICE	PART	DESCRIPTION	PRICE
22-1814	Condenser .0022 Mfd. 600V.		WC1322	Bass Con. & Loudness Con. (5 Me	g.) 1.40
22-1843	Condenser .01 Mfd. 600V.		WC1322'		11.00
22-1849 22-2248	Condenser .0047 Mfd. 600V.		WC13239 83-2639		.75
22-2240	Condenser .033 Mfd. 600V. Condenser 470 Mfd. 600V.		05-2055	3 Lug Terminal Strip (1 Pt. of Ea. S-49044)	.05
WC12961	Electrolytic 4 Mfd. 10V.	1.70	83-3405	Felt Strip (6 used)	.00
WC13234	Electrolytic 30-350V. x 20-350V	3.00	86-30	Terminal (1 Pt. of Ea. S-49044)	.03
	x 20-25V. Resistor 200 Ohm 1/2 W. Ins.	20% .17	86-304 86-329	Connector Terminal (6 used) Connector Terminal (8 used)	.05
	Resistor 200 Ohm 1/2 W. Ins. Resistor 330 Ohm 1 W. Ins.		112-1265	$6-32 \times 1/4$ Spkr. Mtg. Screw (4 Pt. o	.03 of Ea.
	Resistor 560 Ohm 1/2 W. Ins.	20% .17		139-121)	
	Resistor 4700 Ohm 1/2 W. Ins.	10% .17	112-1284	8-32 x 3/8 Phils. Pan. Hd. Mach. Sc	
	Resistor 27 K Ohm 1/2 W. Ins. Resistor 39 K Ohm 1/2 W. Ins.		112-1285	(4 used) 8-32 x 5 3/8 Phils. Pan. Hd. Steel -	.03
	Resistor 150 K Ohm 1/2 W. Ins.	. 20% .17		Black Oxide (4 used)	.20
	Resistor 270 K Ohm 1/2 W. Ins.		114-593	8-18 x 1/2 Hex. Hd. Self-Tap Screw-	flat
	Resistor 470 K Ohm 1/2 W. Ins. Resistor 10 Megohm 1/2 W. Ins		139-121	Washer Att. (4 used) Baffle Board (2 used)	.03
WC13222	Output Trans.	2.75	S-26657	Terminal Strip (1 Mts. Ea. 22-3196)	.20
WC13225	Treble Con. & Sw. (2 Meg.)	2.05	S-49044	Filter Plate (2 used)	3.00
	DRS	89	CABINET F	PARTS	

8.00

.30

.50

4.75

.60

.25

.25

WC11792 4" PM Speaker (less Trans.) (Sub.

Kn ob (with numbered inlay) (3 used)

WC12963 6" PM Speaker (less Trans.)

49-750)

WC12581-6 Back Vent Only

WC13275 Connector Cable WC13423 Pi∎ot Light Socket

WC13424 Pilot Light Bracket WC13425 Pilot Light Jewel

WC13132

-8EN

WC13448

WC13694

WC13988

WC13701

57-1721

100-67

-8B

Handle Assem. (Inclds. handle & 2 plates)

Case With Hardware, Rear Cover & Catch (less front grille & baffle assembly)
Front Grille & Baffle With Crest, Swedge

Bolts & Mounted Track

Trim Strip

Pilot Light

202-1535 Instruction Book

Emblem Plate

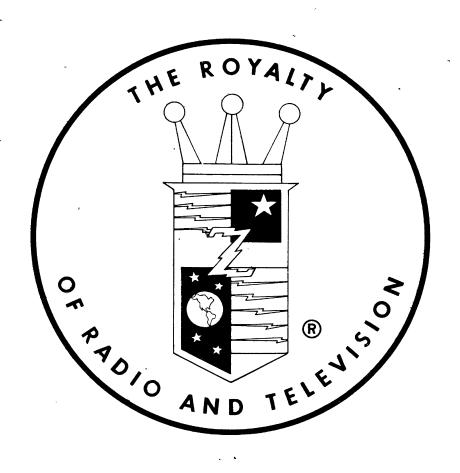
.60

2.50

1.25

.25,

NOTES



ZENITH RADIO CORPORATION

6001 DICKENS AVENUE CHICAGO 39, ILL.