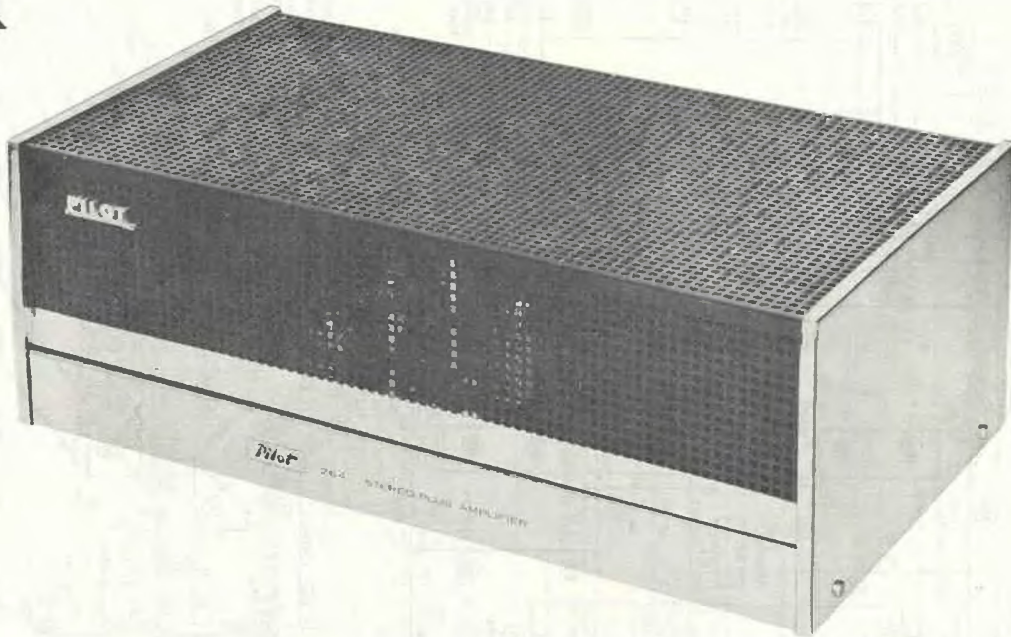




PILOT
MODEL 264



PILOT
MODEL 264

TRADE NAME	Pilot Model 264		
MANUFACTURER	Pilot Radio Corp., 37-06 36th Street, Long Island City 1, N. Y.		
TYPE SET	AC Operated 8 Tube Stereo Amplifier		
POWER SUPPLY	105 - 120 Volts AC, 60 Cycles	RATING	125 Watts, 1.3 Amp. @117 Volts AC

ADJUSTMENTS

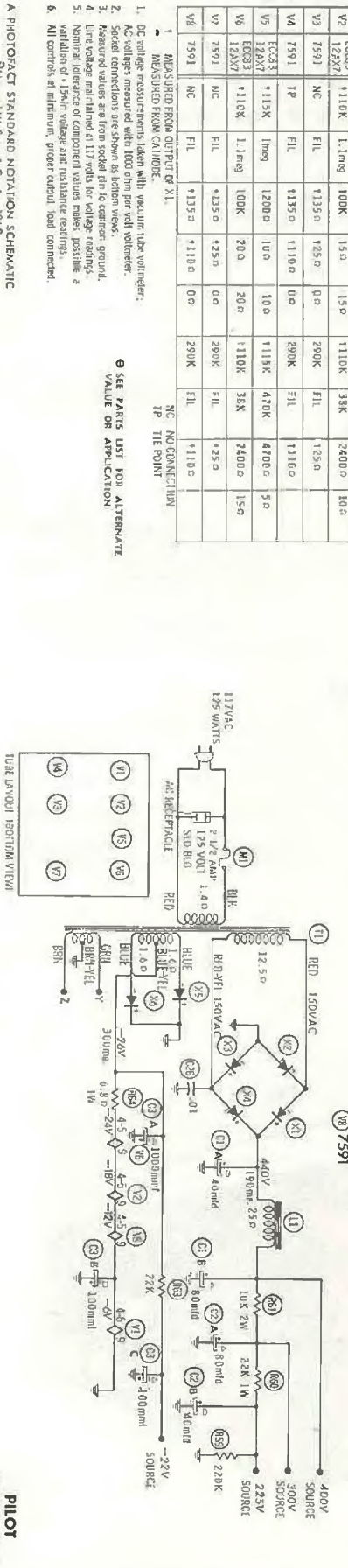
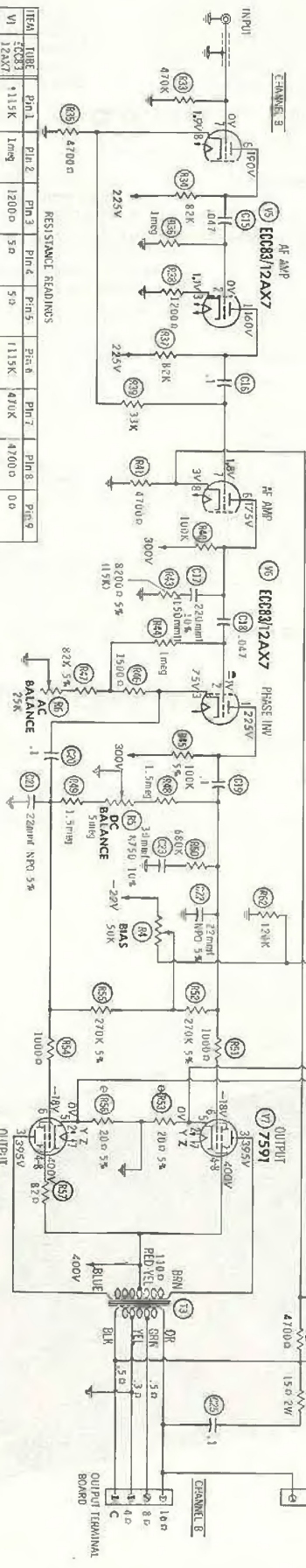
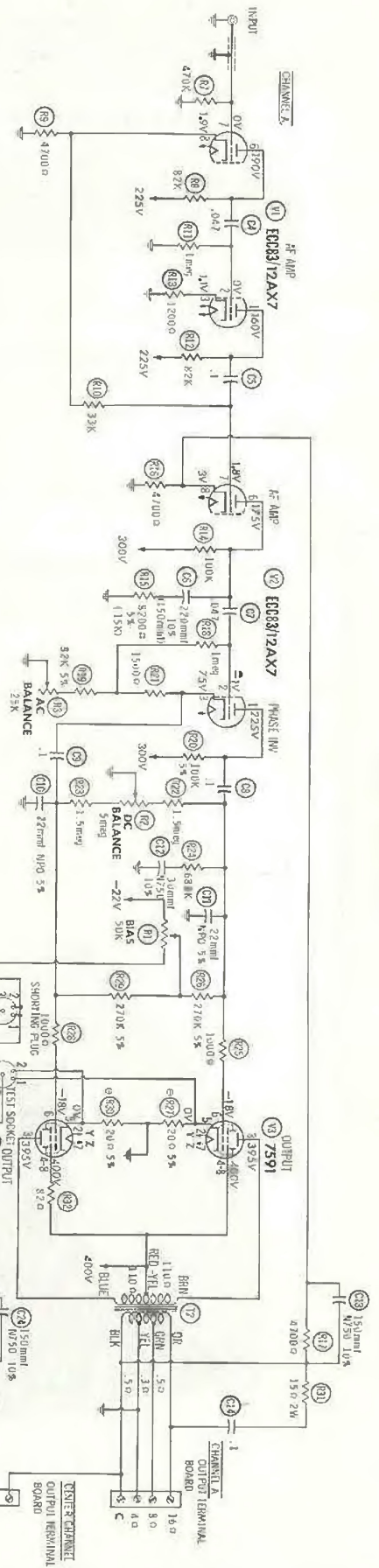
SPECIAL INSTRUCTIONS	INDICATOR	ADJUST	REMARKS
DC BALANCE ADJUSTMENTS			
1. Remove 5 -pin shorting plug from test socket. Remove Lock nuts from Bias and DC Balance Controls.	DC voltmeter between pins 3 and 4 of test socket.	Channel B DC Balance (R5)	Adjust for zero volts on Voltmeter.
2. "	DC Voltmeter between pins 1 and 2 of test socket.	Channel A DC Balance (R2)	"
BIAS ADJUSTMENTS			
3. "	Positive lead of Voltmeter to pin 3 of test socket, common to chassis.	Channel B Bias (R4)	Adjust for .82 volts DC on Voltmeter.
4. "	Positive lead of Voltmeter to pin 1 of test socket, common to chassis.	Channel A Bias (R1)	"
AC BALANCE ADJUSTMENTS (USE EQUIPMENT WITH MINIMUM RESIDUAL DISTORTION)			
5. Repeat Steps 1 thru 4. Connect the correct load to the output transformers. Connect signal generator to amplifier input.	Intermodulation Distortion Analyzer across terminals "4" and "0" of output transformer.	AC Balance Controls	Adjust for minimum distortion at full amplifier output with generator adjusted for 1000% and 1500%. Repeat procedure for both channels.

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of LV204

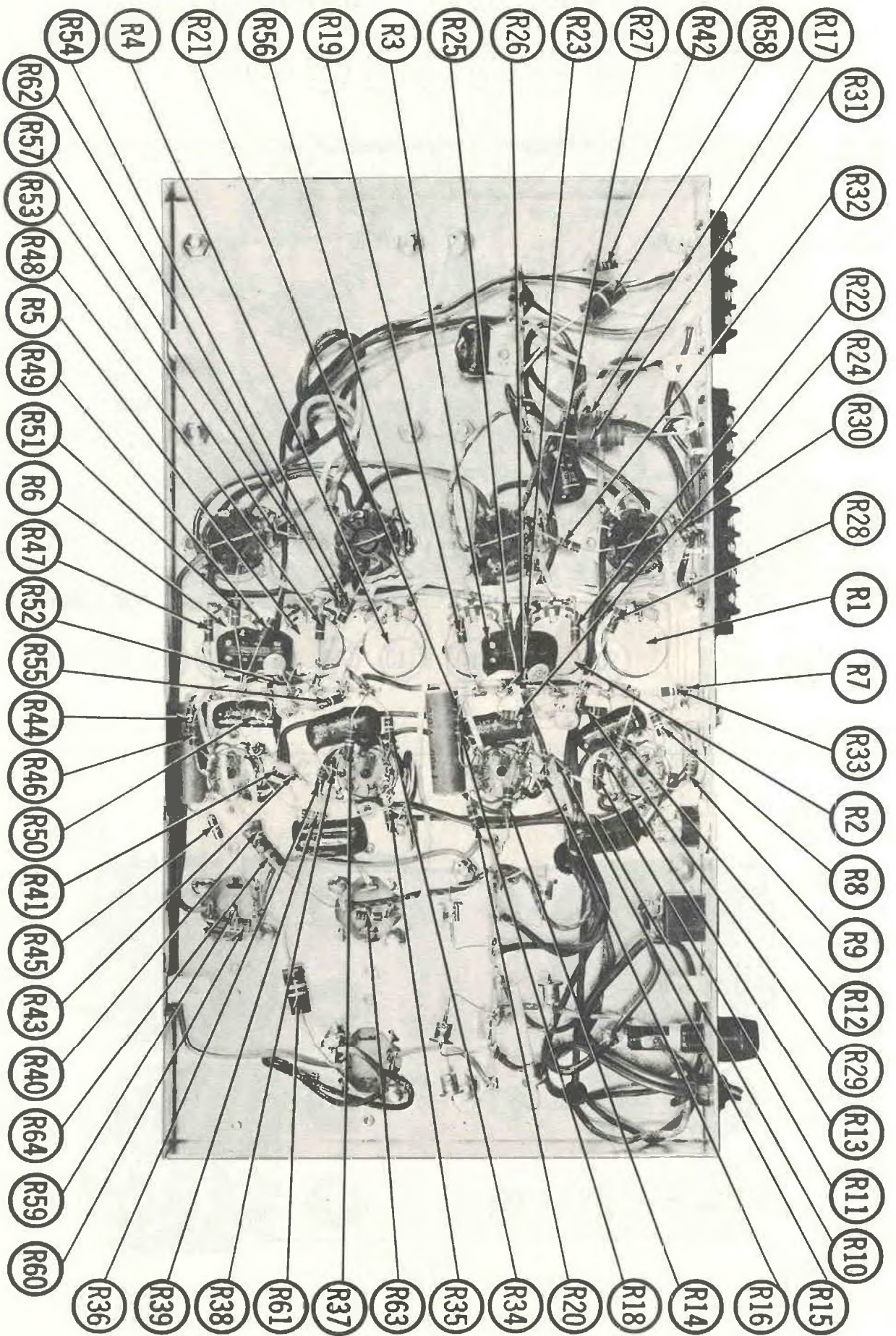
the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1962 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America



1. DC voltage measurements taken with voltage tube voltmeter.
2. AC voltage measurements taken with 1000 ohm per volt voltmeter.
3. Resistor values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of ±1% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

PILOT MODEL 264
Howard W. Senn & Co., Inc. 1962



CHASSIS BOTTOM VIEW - RESISTOR IDENT.

PARTS LIST AND DESCRIPTIONS

TUBES

GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Channel A A.F. Amp. - Phase Inverter	ECC83/12AX7	V5	Channel B A.F. Amp. - Phase Inverter	ECC83/12AX7			
V2	Channel A Output	7581	V6	Channel B Output	7581			
V3	Channel A Output	7581	V7	Channel B Output	7581			
V4	Channel A Output	7581	V8	Channel B Output	7581			

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES		NOTES
			RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
X1	.180A	1D-635	1N1763	F6			
X2	.180A	1D-635	1N1763	F6			
X3	.190A	1D-635	1N1763	F6			
X4	.190A	1D-635	1N1763	F6			
X5	.300A	1D-636	1N1763	F6			
X6	.300A	1D-636	1N1763	F6			
X8		1D-636	1N1763	F6			Bias Rectifier

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP. VOLT.	PILOT PART No.	REPLACEMENT DATA					
			AEROVOX PART No.	CORNELL DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLOY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	.450	24-184	AFT1-55	AO510	XC2-33	EP149	TRMS-1800	TV1-1735
C2A	.450	24-184	PR31750	BR4045	XC2-33	TC78	TD-40-450	TVA-1712
C3A	.450	24-184	PR31750	BR4045	XC2-33	TC78	TMS-1800	TVA-1735
C	.100	24-186				TC78	TD-40-450	TVA-1712

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CORNELL DUBILIER PART No.	GENERAL ELECTRIC PART No.	EMERSON PART No.	MALLOY PART No.	SPRAGUE PART No.
C4	.047 400V		P488N-047	DD-503	CUB4547	4DP-3-473	GEM-4147	4TM-S47
C5	1.400V	(150) †	P488N-1	DD-104	CUB4547	4DP-3-104	GEM-401	4TM-P10
C6	220 10%		DI-220	DD-221	L1072	CCD-221	GP322	107S-T22
C7	.047 400V		P488N-047	DD-503	CUB4547	4DP-3-473	GEM-4147	4TM-S47
C8	1.400V		P488N-1	DE-104	CUB4547	4DP-3-104	GEM-401	4TM-P10
C9	1.400V		P488N-1	DE-104	CUB4547	4DP-3-104	GEM-401	4TM-P10
C10	22 NPO 5%			D17-22	C100222C		CNO-422	107CC-Q22
C11	22 NPO 5%			D17-22	C100222C		CNO-422	107CC-Q22
C12	30 N750 10%		N750-DI 33	TCN-30	C100310		CNT-433	107CCU-Q33
C13	180 N750 10%		N750-DI 180	TCN-180	C107180		CNT-433	107CCU-T18
C14	.047 400V		P288N-1	DD-104	CUB281	4DP-2-104	GEM-201	2TM-P10
C15	.047 400V		P488N-047	DD-503	CUB4547	4DP-3-473	GEM-401	4TM-S47
C16	1.400V		P488N-1	DE-104	CUB4547	4DP-3-104	GEM-401	4TM-P10
C17	220 10%	(150) †	DI-220	DD-221	L10722	CCD-221	GP322	107S-T22
C18	.047 400V		P488N-047	DD-503	CUB4547	4DP-2-473	GEM-4147	4TM-S47
C19	1.400V		P488N-1	DE-104	CUB4547	4DP-3-104	GEM-401	4TM-P10
C20	22 NPO 5%			DF7-22	C100222C		CNO-422	107CC-Q22
C21	22 NPO 5%			DF7-22	C100222C		CNO-422	107CC-Q22
C22	30 N750 10%		N750-DI 33	TCN-30	C100310		CNT-433	107CCU-Q33
C23	150 N750 10%		N750-DI 150	TCN-180	C107180		CNT-433	107CCU-T18
C24	1.100V		P288N-1	DD-104	CUB281	4DP-2-104	GEM-201	2TM-P10
C25	.01		BPD-01	DD-103	BVA10S1	CCD-103	B-110	5HK-S10

† Alternate Value.

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA					
			PILOT PART No.	CORNELL DUBILIER PART No.	GENERAL ELECTRIC PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLOY PART No.
R1	Bias Adjust, Ch. A	50K	39-65	B-31, or (AB-31, AK-1)	A47-50K-S/	Q11-123 or (BU2)	U35	
R2	DC Balance, Ch. A	5meg	39-66	B-87, or (AB-87, AK-1)	A47-5meg-S/	Q11-141, or (BU2)	U36 or (UA56L)	
R3	AC Balance, Ch. A	25K	39-64	B-26, or (AB-26, AK-1)	A47-25K-S/	Q11-120, or (BU2)	U29 or (UA253L)	
R4	Bias Adjust, Ch. B	50K	39-65	B-31, or (AB-31, AK-1)	A47-50K-S/	Q11-123, or (BU2)	U35	
R5	DC Balance, Ch. B	5meg	39-66	B-87, or (AB-87, AK-1)	A47-5meg-S/	Q11-141, or (BU2)	U36 or (UA56L)	
R6	AC Balance, Ch. B	25K	39-64	B-26, or (AB-26, AK-1)	A47-25K-S/	Q11-120, or (BU2)	U29 or (UA253L)	

† "SMALPTROL"

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			REMARKS
		IRC PART No.	WORKMAN PART No.	WORKMAN PART No.	
R7	470K				
R8	82K				
R9	4700Ω				
R10	33K				
R11	1meg				
R12	82K				
R13	1200Ω				
R14	100K				
R15	8200Ω 5%				(15K)*
R16	4700Ω				
R17	4700Ω				
R18	1meg				
R19	82K 5%				
R20	100K 5%				
R21	1500Ω				
R22	1.5meg				
R23	1.5meg				
R24	880K				
R25	1000Ω				
R26	270K 5%				
R27	20K 5%				Note 1
R28	1000Ω				
R29	270K 5%				
R30	20K 5%				Note 1
R31	15Ω 2W				
R32	470K				
R33	82K				
R34	4700Ω				
R35	4700Ω				

ITEM No.	RATING	REPLACEMENT DATA			REMARKS
		IRC PART No.	WORKMAN PART No.	WORKMAN PART No.	
R36	1meg				
R37	82K				
R38	1200Ω				
R39	33K				
R40	100K				
R41	4700Ω				
R42	4700Ω				
R43	8200Ω 5%				(15K)*
R44	1meg				
R45	100K 5%				
R46	1500Ω				
R47	82K 5%				
R48	1.5meg				
R49	1.5meg				
R50	680K				
R51	1000Ω				
R52	270K 5%				
R53	20K 5%				Note 2
R54	1000Ω				
R55	270K 5%				
R56	20K 5%				Note 2
R57	82Ω				
R58	15Ω 2W				
R59	220K				
R60	22K 1W				
R61	10K 2W				
R62	120K				
R63	22K				
R64	6.8Ω 1W				

Note 1. R27 and R30 are matched to 1%.
 Note 2. R53 and R56 are matched to 1%.
 * Alternate Value.

FILTER CHOKE

ITEM No.	CURRENT (Measured)	RATINGS			PILOT PART No.	REPLACEMENT DATA			NOTES
		DC RES.	INDUCTANCE (DC CURRENT)	PILOT PART No.		Merit PART No.	Shorston PART No.	Tried PART No.	
L1	.180A	25Ω	250MH	57-18					

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA					NOTES
		PILOT PART No.	Merit PART No.	Shorston PART No.	Thorndson PART No.	Tried PART No.	
T1	LITV @ 1.5A 300V @ 400A AC 420VCT @ 300A DC SEC. 3 6.3VCT @ 3.5A	55-78					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA					NOTES
		PILOT PART No.	Merit PART No.	Shorston PART No.	Thorndson PART No.	Tried PART No.	
T2	640Ω CT	36-63					
T3	540Ω CT	56-63					

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			PILOT PART No.	HOLDER	FUSE PART No.	HOLDER	RUSS PART No.	
M1	3AG	2 1/4 125V S/B	111-12		31302.5 (3AG 2 1/4 125V) S/B	342001	MDDL 2 1/2	HXP

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
 Power Cord Use BELDEN No. 8524 (Stranded) Available in 12 Colors
 Power Cord (Interlock Type) Use BELDEN No. 17106 (Pigtail) or 17129 (Rubber) - 6 Ft.
 Low-Loss Shielded Lead (Interconnecting) Use BELDEN No. 8704 (Rubber) or 8895 (Pigtail)
 Phone Pick-up Arm Cable Use BELDEN No. 8430 (Two Conductor - Unshielded)
 Phone Pick-up Arm Cable Use BELDEN No. 8429 (Two Conductor - Shielded)
 Phone Pick-up Arm Cable Use BELDEN No. 8419 (Three Conductor - Shielded)

