

MOPAR MODEL 802 (REVISED)

TRADE NAME	Mopar, Model 802 (Revised) (Philco, C-4608)
SUPPLIER	Chrysler Corp., Detroit 31, Michigan
TYPE SET	Battery Operated Custom Built Automotive Superheterodyne Receiver
TUBES (EIGHT)	Types, 7A7 RF Amp., 7B8 Converter, 7A7 IF Amp., 7B6 Det.-AVC-AF, 7A4 Phase Inv., (2) 7C5 Power Output, 7Y4 Rectifier.
POWER SUPPLY	6 Volt Storage Battery
TUNING RANGE—BROADCAST	540-1600KC
RATING	8 Amp. @ 6.3 Volts DC

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer turn tuning slugs completely out and set pointer to 1600KC.
 For RF Alignment connect a 20 MMFD cap. in series with 30 MMFD cap. across output of sig. gen. with 20 MMFD cap. connected to high side. Connect ant. receptacle to junction of two caps. Connect low side of sig. gen. to chassis.
 Tone control should be at "Voice" position, volume and sensitivity controls should be at maximum position, output of sig. gen. should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1 20 MMFD	High side to Pin 6 (grid) of 7B8. Low side to chassis.	455KC	1600KC	Across voice coil.	A1,A2, A3,A4.	Short Pin 4 of 7B8 to chassis. Adjust for maximum output.
2 20 MMFD	"	"	"	"	A5	Adjust for minimum output.
3	See prealignment notes.	1500KC	Tune for maximum output.	"	A6	Remove short from Pin 4 of 7B8. Adjust for maximum output.
4 20 MMFD	"	580KC	"	"	A7	Rock tuning control and adjust for maximum output.
5 20 MMFD	"	550KC	Tune for maximum output.	"	A8	Leave dial at this setting. Tune sig. gen. to 1460KC and increase output. Adjust A8 for minimum output.
6 20 MMFD	"	1500KC	"	"	A6	Adjust for maximum output.
7 20 MMFD	"	580KC	580KC	"	A7	Rock tuning control and adjust for maximum output.

When adjustments are completed, install receiver in car. With antenna extended, tune in weak station near 1400KC and adjust A6 for maximum volume.

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(PHILCO C-4608)

HOWARD W. SAMS & CO., INC. • 2924 East Washington Street • Indianapolis 7, Indiana

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PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		MOPAR-PHILCO PART No.	STANDARD REPLACEMENT		
1	RF Amp. Converter	7A7	7A7	8V	
2	If Amp.	7B3	7B3	8X	
3	If Amp.	7A7	7A7	8V	
4	Det.-AVC-AF Phase Inv. Power Output	7B6	7B6	8W	
5		7A4	7A4	5AC	
6		7C5	7C5	6AA	
7		7C5	7C5	6AA	
8	Rectifier	7Y4	7Y4	5AB	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA		CORNELL DUBIELL PART No.	SOLAR PART No.	SPRAGUE PART No.	IDENTIFICATION AND INSTALLATION NOTES
		MOPAR-PHILCO PART No.	AEROVOX PART No.				
9A	20 CAP.	61-0150	AF444J4A	UP11145C	DY-402	EL-415	Filter
10	10 CAP.	61-0115	1684-003	MD16D5	STM-16-003	TR-23	Cathode Bypass
B	5 CAP.	61-0183	484-.5	DT2P5	SHH-1	TC-5	Buffer
C	300 CAP.	30-4650-91	684-006	DT6D6	SHH-1	TC-5	Hash Filter
D	25 CAP.	30-4650-26	684-005	DT6S1	ST-6-006	TC-26	Output Plate Bypass
11	.003 CAP.	30-4650-41	684-001	DT6S1	ST-6-01	TC-11	Audio Coupling
12	.5 CAP.	30-4650-39	684-005	DT6S2	ST-6-01	TC-25	"
13	.0068 CAP.	30-4650-41	684-001	DT6S1	ST-6-01	TC-11	"
14	.01 CAP.	30-4650-41	684-001	DT6S1	ST-6-01	TC-11	"
15	.01 CAP.	30-4650-41	684-001	DT6S1	ST-6-01	TC-11	"
16	.0047 CAP.	30-4650-26	684-005	DT6S2	ST-6-02	TC-12	Tone Comp. Feedback
17	.01 CAP.	30-4650-41	684-001	DT6S1	ST-6-01	TC-11	"
18	.022 CAP.	30-4650-26	684-005	DT6S2	ST-6-02	TC-12	Tone Comp. Feedback
19	.0047 CAP.	30-4650-39	684-005	DT6D5	ST-6-005	TC-25	Audio Coupling
20	.047 CAP.	30-4650-28	684-005	DT6S5	ST-6-05	TC-15	"
21	.047 CAP.	30-4650-28	684-005	DT6S5	ST-6-05	TC-15	Tone Comp. IF Cathode Bypass
22	.047 CAP.	30-4650-28	684-005	DT6S5	ST-6-05	TC-15	Screen Bypass
23	.047 CAP.	30-4650-28	684-005	DT6S5	ST-6-05	TC-15	Cathode Bypass
24	.047 CAP.	30-4650-28	684-005	DT6S5	ST-6-05	TC-15	Cathode Bypass
25	.047 CAP.	30-4650-28	684-005	DT6S5	ST-6-05	TC-15	Cathode Bypass
26	.220 CAP.	30-1228-3	1468-00025	SM5T25	MO.5-325	LFM-325	Hash Filter-Cer.
27	.220 CAP.	30-1228-3	1468-00025	SM5T25	MO.5-325	LFM-325	"
28	.220 CAP.	30-1228-3	1468-00025	SM5T25	MO.5-325	LFM-325	"
29	.100 CAP.	30-1227-7	1468-0001	SM5T1	MO.5-31	LFM-31	AF Plate Bypass
30	.220 CAP.	30-1228-3	1468-00025	SM5T25	MO.5-325	LFM-325	Feedback-Cer.
31	.220 CAP.	30-1228-3	1468-00025	SM5T25	MO.5-325	LFM-325	Osc. Grid Cap.-Cer.
32	.360 CAP.	30-1220-13	1468-00025	SM5T25	MO.5-325	LFM-325	Fixed Trimmer-Cer.
33	.55 CAP.	61-0149					"
34	.500 CAP.	60-00125417					"
35	.300 CAP.	30-1228-3	1468-00025	SM5T25	MO.5-325	LFM-325	Ant. Coupling-Cer.

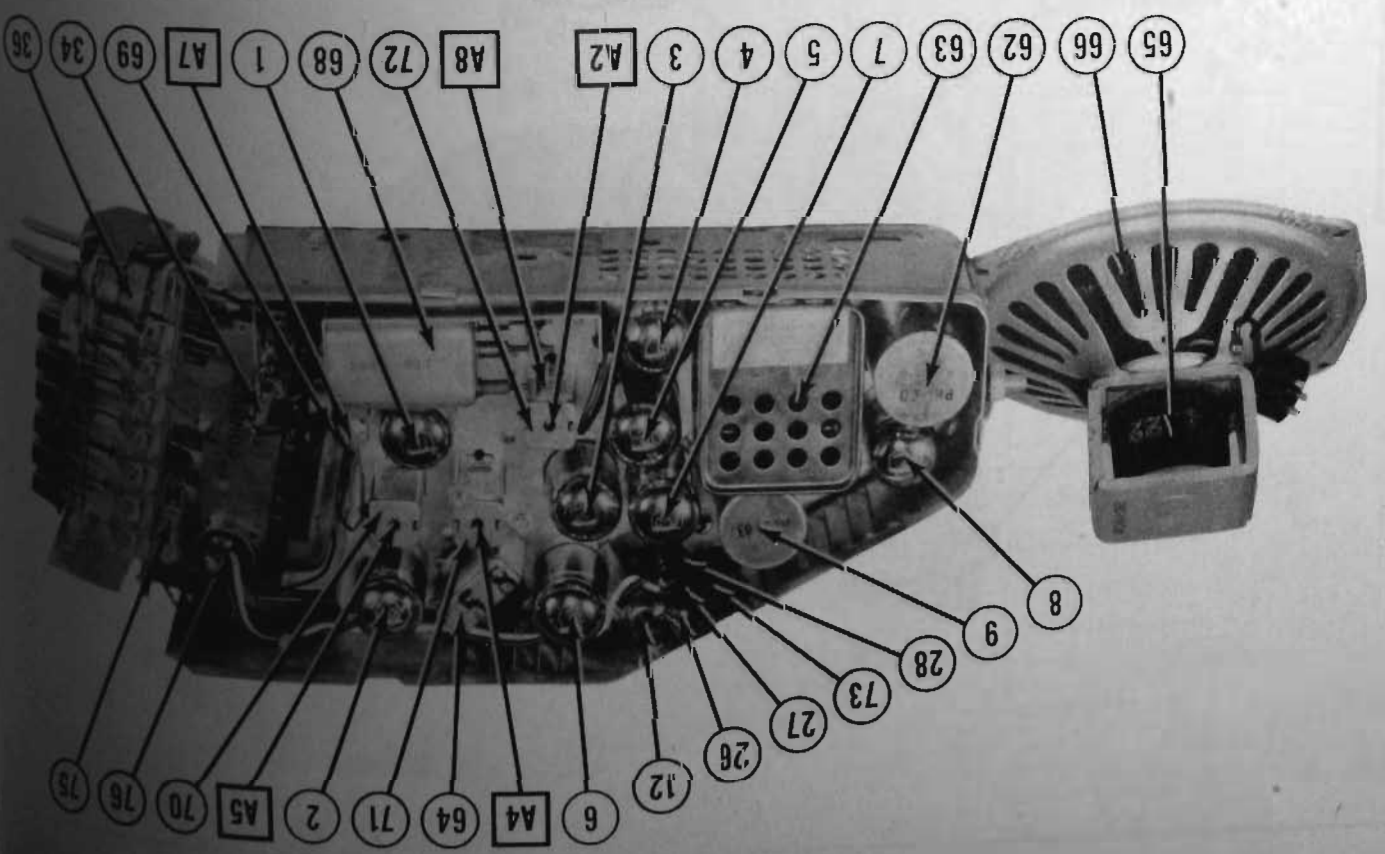
CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		GLASS/STAT PART No.	INSTALLATION NOTES
		MOPAR PART No.	IRC PART No.		
36A	250KΩ RESISTANCE	67-0040			Volume Control
B	4 Meg. RESISTANCE				Tone Control

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IRC PART No.	IDENTIFICATION CODES
		MOPAR-PHILCO PART No.	IRC PART No.		
37	1 Meg. RESISTANCE	66-8101540	B78-1	B78-1	RF Grid
38	15KΩ RESISTANCE	66-8155340	B78-15K	B78-15K	RF-Grn.-Or. RF Plate Load
39	220KΩ RESISTANCE	66-1229340	BW-4-220	BW-4-220	Red-Red-Br. Cathode
40	100KΩ RESISTANCE	66-4101540	B78-100K	B78-100K	RF-BIK-YI Converter Grid
41	100KΩ RESISTANCE	66-4101540	B78-100K	B78-100K	RF-BIK-YI Converter Grid
42	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
43	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
44	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
45	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
46	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
47	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
48	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
49	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid
50	220KΩ RESISTANCE	66-8223340	B78-220K	B78-220K	RF-BIK-YI Converter Grid

CHASSIS-TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		MOPAR- PHILCO PART No.	IRC PART No.	
43	4700Ω	66-247124C	BTS-4700	Yl.-Vl.-Red Tone Compensation
45	6800Ω	66-2681540	BTS-6000	Blue-Gray-Red "
49	10 Meg.	66-6101540	BTS-10 Meg.	Br.-Blk.-Blue AF Grid
51	220KΩ	66-4221540	BTS-220K	Red-Red-Yl. AF Plate Load
52	10 Meg.	66-6101540	BTS-10 Meg.	Br.-Blk.-Blue Phase Inv. Grid
53	220KΩ	66-4221540	BTS-220K	Red-Red-Yl. Phase Inv. Plate Load
54	220KΩ	66-4221540	BTS-220K	Red-Red-Yl. Phase Inv. Cathode
55	470KΩ	66-4471540	BTS-470K	Yl.-Vi.-Yl. Output Grid "
56	470KΩ	66-4471540	BTS-470K	Or.-Or.-Br. Output Cathode
57	330Ω	66-1334340	BW-1-330	Red-Red-Red Feedback
58	2200Ω	66-2221540	BTS-2200	Br.-Blk.-Red Filter
59	1000Ω	66-2104340	BT-1-1000	Br.-Blk.-Red "
60	1000Ω	66-2104340	BT-1-1000	Br.-Blk.-Br. Hash suppressor
61	100Ω	66-1104340	BT-1-100	Red-Red-Or. Diode Filter
79	22KΩ	66-3223540	BTS-22K	

Note—Some models use 1000Ω in this application. IRC replacement BTS-1000.

VIBRATOR

ITEM No.	TYPE	INPUT VOLTS	FRE- QUENCY	REPLACEMENT DATA		INSTALLATION NOTES
				MOPAR- PHILCO PART No.	RADIART PART No.	
62	Interrupter	6.3	115 ~	85-0026	5326P	

TRANSFORMER (VIBRATOR)

ITEM No.	RATING	REPLACEMENT DATA		THORSON PART No.	MERIT PART No.
		MOPAR- PHILCO PART No.	STANCOR PART No.		
63	5.7V DC ① 1.9A .055A DC	SEC. 3	65-0047		

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA		THORSON PART No.	MERIT PART No.	INSTALLATION NOTES
		MOPAR- PHILCO PART No.	STANCOR PART No.			
64	IMPEDANCE PRI. SEC. DC RES. 10KΩ 3.7Ω 430Ω .4Ω CT CT	SEC. 2	32-8316	T22586*	A-2900*	*Drill one new mounting hole

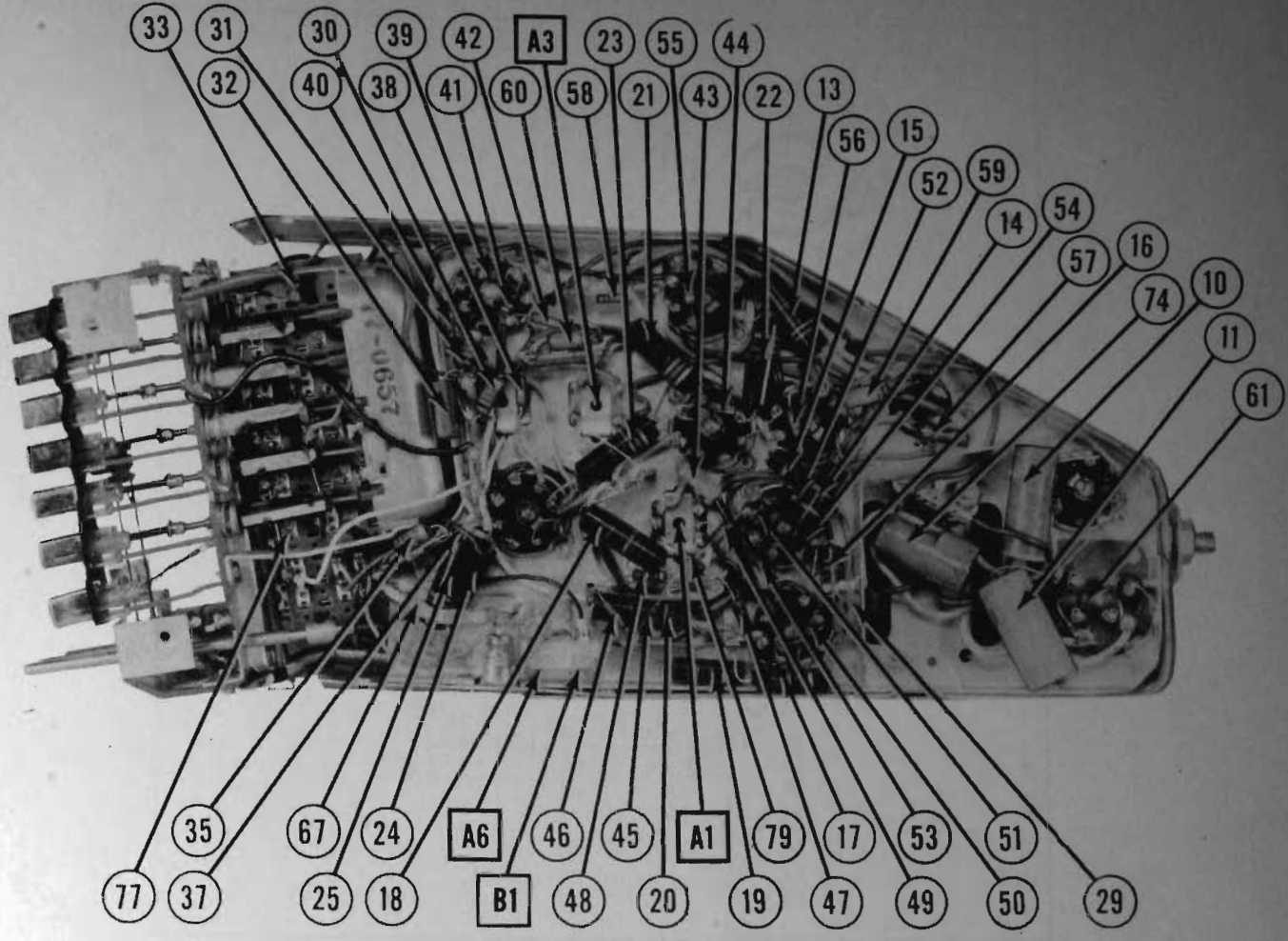
SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		JENSEN PART No.	QUAM PART No.	INSTALLATION NOTES
		MOPAR- PHILCO PART No.	MOPAR- PHILCO PART No.			
65	FIELD PERS. VC IMP. 4.1Ω 3.7Ω	36-1609			7EV6	
66	CONE DIA. VC DIA. 6-13/16" 7/8"					

R F COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA		MEISSNER PART No.
		PRI.	SEC.	MOPAR- PHILCO PART No.	MOPAR- PHILCO PART No.	
67	Ant. Load/Tr					
68A	Coil		6.7Ω	65-0437		
68B	Ant. Coil		17Ω	77-0666-2		
69	Image Trap Coil		33Ω			
69	Osc. Coil		3.5Ω			
69	Osc. Shunt Coil		5.5Ω	65-0440		
70A	RF Coil		3.2Ω	32-4162		
70B	IF Wave Trap Coil					
71	Input IF		12Ω	32-4160		16-6668
72	Output IF		15Ω	32-4161		16-6669
73	Hash Choke Coil		0Ω	32-1644		
74	Vib. Choke Coil		.1Ω	32-4170		

CHASSIS—BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					MOPAR- PHILCO PART No.	MOPAR- PHILCO PART No.	
75	Bayonet	6-8	0.15	Brown	34-2068		Type 47

MISCELLANEOUS

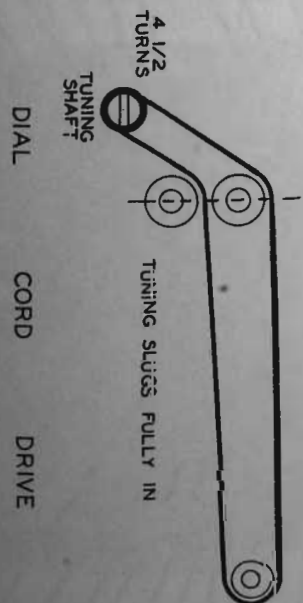
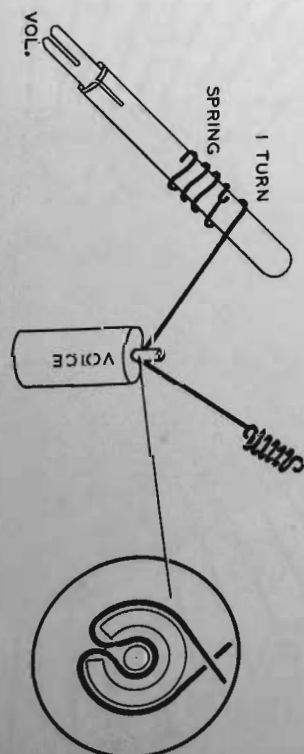
ITEM No.	PART NAME	MOPAR- PHILCO PART No.	NOTES
76	Switch	85-0127	ON-OFF
77	Pushbutton Assy	77-0657-1	14 amp.
78	Fuse	45-2556	(Aut. Adj.)
A6	Trimmer Assy.	77-0788	
B1	Dial	27-5897	(Plymouth, Desoto, Chrysler)
	"	27-5898	(Dodge)

PUSHBUTTON ADJUSTMENTS

Range of buttons from top to bottom is: 850-1600KC, 750-1450KC, 710-1380KC, 625-1170KC, 535-1000KC.

Make a list of stations desired to be set up, making sure that each station falls within the range of the button to be set up.

1. Turn set on and allow it to warm up for at least 20 minutes.
 2. Remove pushbutton covers.
 3. Depress dial button and manually tune in station desired to be set up with button #1.
 4. Depress button #1 and tune in station with knurled end of button #1.
 5. Check accuracy of setting by tuning the station manually, then depress button #1. If the setting is off retune with the knurled end of button #1.
 6. To set up the remaining buttons follow the procedure outlined above.
 7. After button #5 is set up, leave button depressed and adjust B1 for maximum volume.
 8. Replace button covers.
- Buttons may be set up outside of car but after installation they should all be given a final adjustment.



VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	7A7	0V.	115VDC	85VDC	0V.	0V.	-.1VDC	2.8VDC	6.2VDC
2	7B8	0V.	200VDC	140VDC	-4.9VDC	85VDC	-.1VDC	2.8VDC	6.2VDC
3	7A7	0V.	210VDC	85VDC	0V.	0V.	0V.	3VDC	6.2VDC
4	7B6	0V.	120VDC	-.5VDC	0V.	-.1VDC	-.2VDC	0V.	6.2VDC
5	7A4	0V.	120VDC	225VDC	0V.	120VDC	.2VDC	90VDC	6.2VDC
6	7C5	0V.	230VDC	215VDC	0V.	0V.	0V.	15VDC	6.2VDC
7	7C5	0V.	230VDC	215VDC	0V.	0V.	0V.	15VDC	6.2VDC
8	7Y4	6.2VDC	0V.	220VAC	0V.	0V.	220VAC	230VDC	0V.

§ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	7A7	0Ω	115KΩ	125KΩ	0Ω	0Ω	2.4 Meg	220Ω	.2Ω
2	7B8	0Ω	100KΩ	120KΩ	100KΩ	125KΩ	1.5 Meg	220Ω	.2Ω
3	7A7	0Ω	100KΩ	125KΩ	0Ω	0Ω	12Ω	470Ω	.2Ω
4	7B6	0Ω	320KΩ	10 Meg.	0Ω	1.4 Meg	370KΩ	0Ω	.2Ω
5	7A4	0Ω	320KΩ	100KΩ	2KΩ	320KΩ	10 Meg.	220KΩ	.2Ω
6	7C5	0Ω	100KΩ	100KΩ	0Ω	INF.	470KΩ	330Ω	.2Ω
7	7C5	0Ω	100KΩ	100KΩ	470KΩ	INF.	470KΩ	330Ω	.2Ω
8	7Y4	.2Ω	INF.	440Ω	INF.	INF.	410Ω	100KΩ	0Ω

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

