

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



AUTOMATIC CUSTOM MODELS

BP-7160 (66-67 Buick)
CTP-7211A (67 Mercury Comet)
DHP-7133 (67 Dodge Dart)
DRX-7117 (66-67 Dodge Charger)
DX-7111 (66-67 Dodge Coronet)
PC-7165 (67 Pontiac)
PFX-7105 (67 Plymouth Fury)
SBP-7168A (66-67 Buick Special)
TPC-7170 (66-67 Pontiac Tempest)

ALIGNMENT INSTRUCTIONS

Check for specified source voltage.

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools:

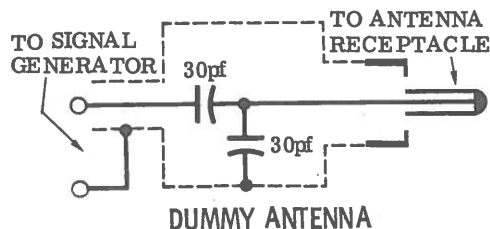
A1 thru A4. GENERAL CEMENT: 9300,9296,9297
WALSCO: 2510,2546,2547
A5,A6,A7. GENERAL CEMENT: 9087,8290,8868
WALSCO: 2525,2528,2587

PUSH-BUTTON ADJUSTMENT

1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

	GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru .1mfd to point Δ , low side to ground.	262KC 400 cycle modulation	High freq. end stop.	Output meter across voice coil.	A1,A2, A3,A4	Adjust for maximum.
2.	Thru dummy antenna to antenna input.	1615KC	"	"	A5,A6, A7	"

With radio installed in car and antenna extended to desired height, tune in a weak station near 1400KC and adjust A7 for maximum output. Antenna adjustment (A7) is located bottom left rear corner to right of antenna receptacle.

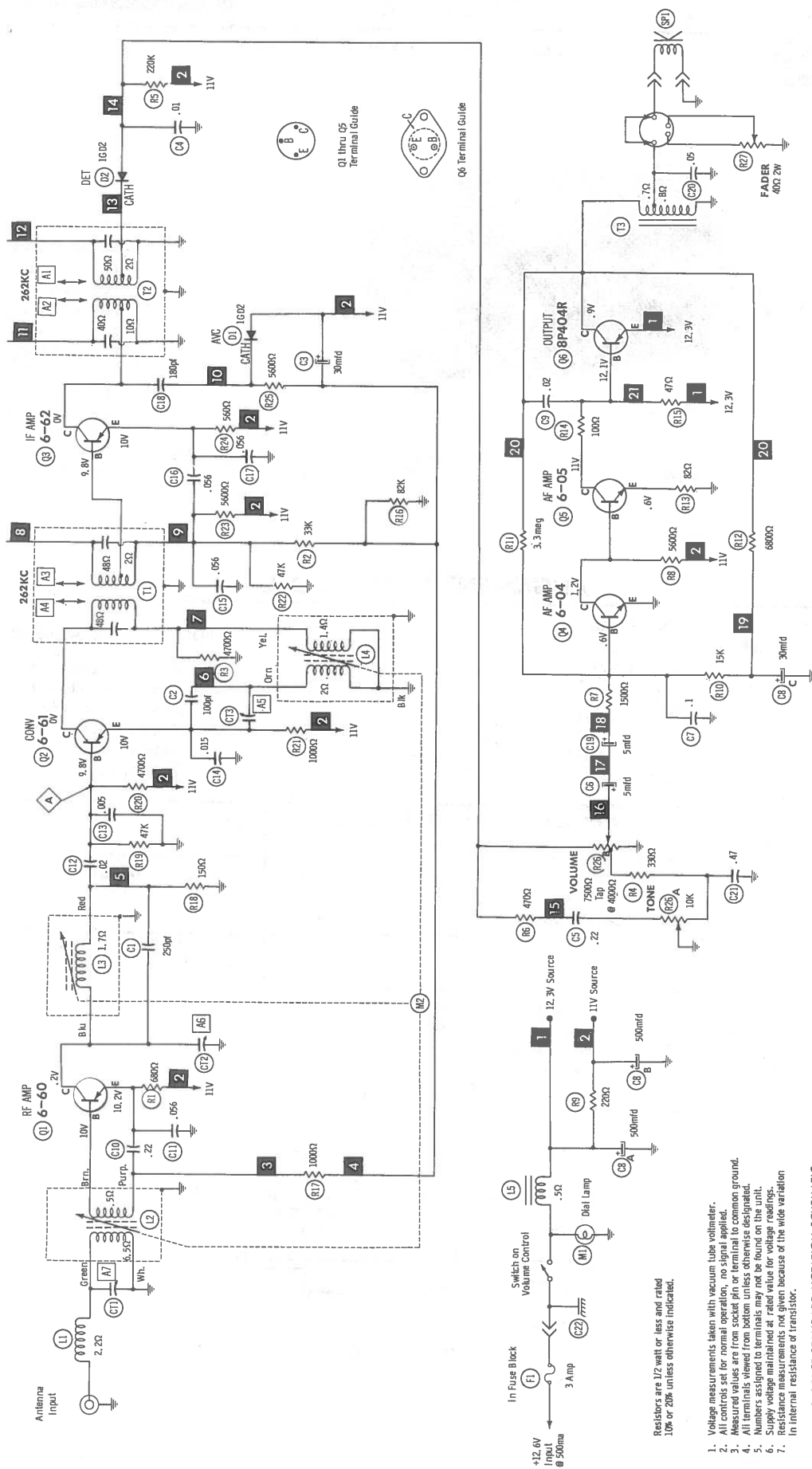


HOWARD W. SAMs & CO., INC. Indianapolis, Indiana 46206

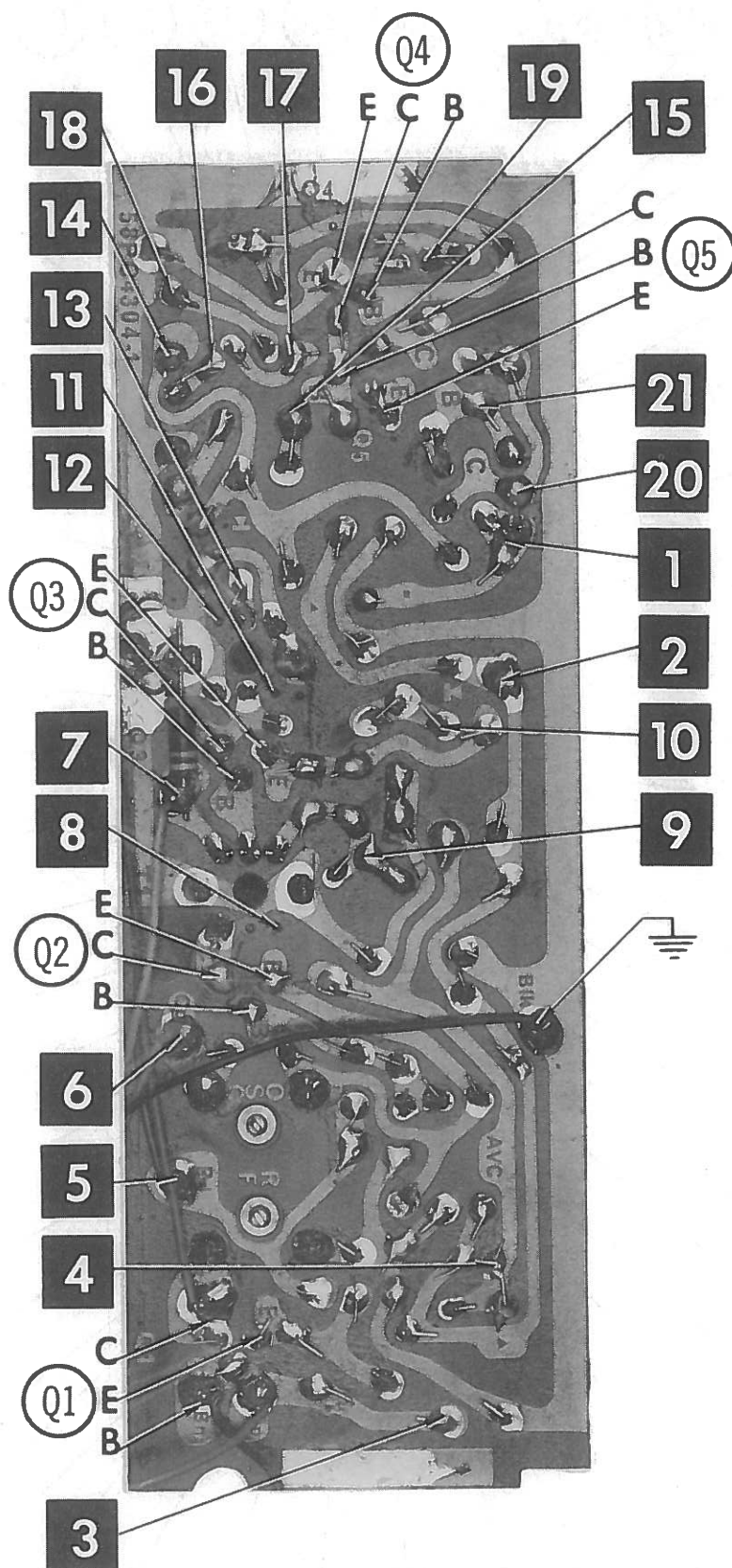
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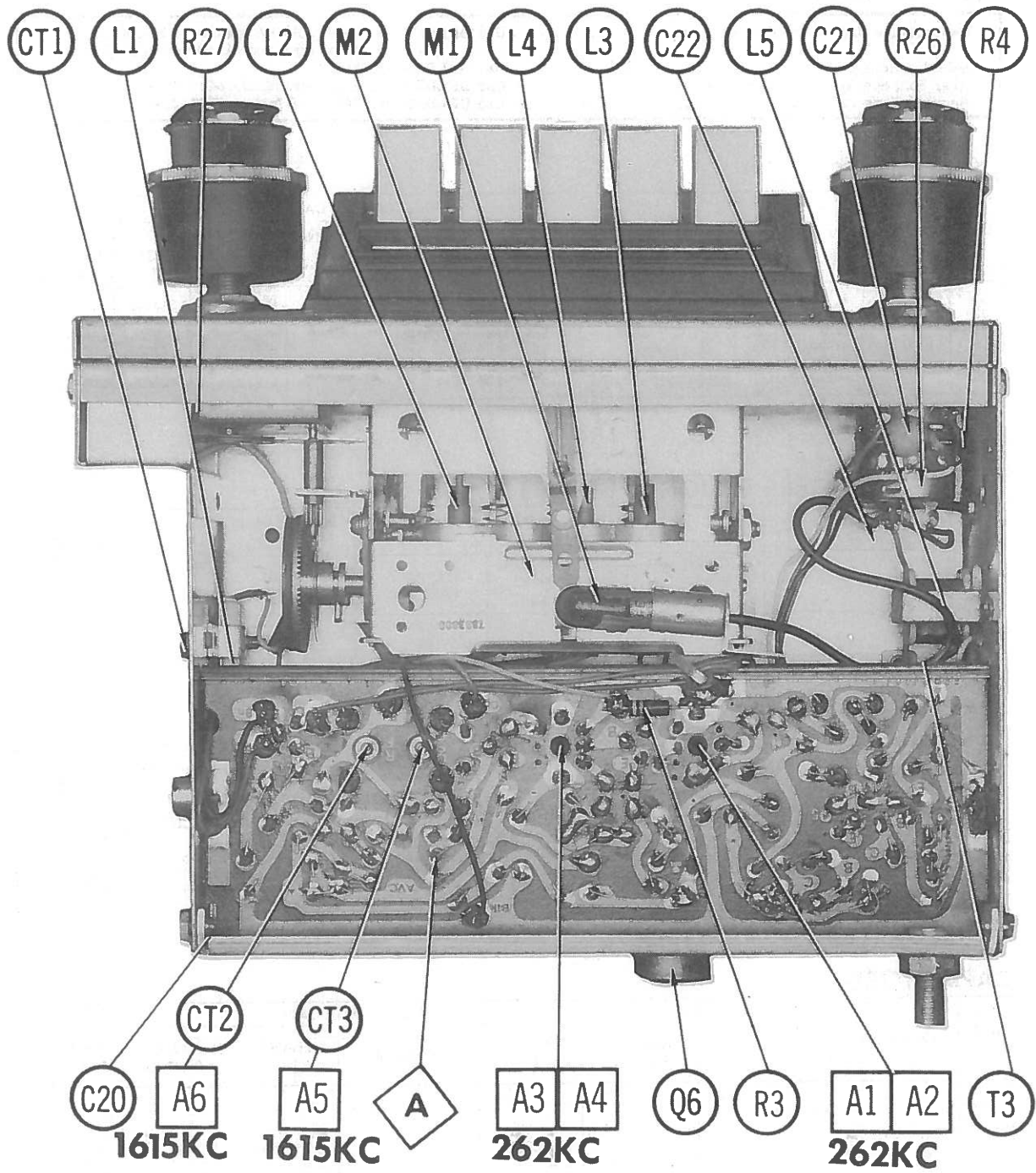
AUTOMATIC CUSTOM SERIES



AUTOMATIC CUSTOM SERIES







PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Hook-up Wire	Use BELDEN No. 8885
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA						
			MFR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1	6-60	RF Amp		DS-25	GE-9A	TR-05	HEP253	SK3008	ECG 126
Q2	6-61	Converter		DS-25	GE-9A	TR-05	HEP253	SK3008	ECG 126
Q3	6-62	IF Amp		DS-25	GE-9A	TR-05	HEP253	SK3008	ECG 126
Q4	6-04	AF Amp		DS-66	GE-20	TR-21	HEP737	SK3020	ECG 123
Q5	6-05	AF Amp		DS-66	GE-20	TR-21	HEP728	SK3020	ECG 123
Q6	8P404R	Output *		DS-520	GE-3	TR-01	HEP232	SK3009	ECG 104

* When replacing, apply silicone grease to both sides of insulator. Tighten mounting screws securely.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	
D1	1GD2	1N295	1N295	ECG 109		
D2	1GD2	1N295	1N295	ECG 109		

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C3	30 10V		BCD25005	EP15-5	NLW5-15	MT1-3	MTV5CB50	TE-1127
C6	5 10V		BCD12035	EP15-50	NLW30-15	MT1-16	MTV30CB25	TE-1132.1
C8A	500 15V	(20-507-15PC)	BCD15500	EA15-500	BR500-15	QT1-30	MTV500DN15	TL-1166
B	500 15V	(20-507-15PC)	BCD15500	EA15-500	BR500-15	QT1-30	MTV500DN15	TL-1166
C	30 10V		BCD25005	EP15-5	NLW5-15	MT1-3	MTV5CB50	TE-1127
C19	5 10V		BCD12035	EP15-50	NLW30-15	MT1-16	MTV30CB25	TE-1132.1

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
CT1		(#28-800-21)						
CT2		(#28A4290)						
CT3								
C1	250			CPR-250J	CD10E251J500	DM-15-251J	SX324	MS-325
C2	100		NPO-DI 100	DTZ-100	CV601CG101K	CCT0-101	CN0310	10TCC-T10
C4	.01		TTP-01	CK-103	HOY101ZV103P	CCD-103	TA110	TG-S10
C5	.22			UK20-204	HCZ3ROX224P		MAG25022	HY-325
C7	.1		TTP-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C9	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C10	.22			UK20-204	HCZ3ROX224P		MAG25022	HY-325
C11	.056		TTP-05	CK-503	HOV101ZV503Z	CCD-503	TA150	TGL-S50
C12	.02		TTP-02	CK-203	HOR101ZV203P	CCD-203	TA120	TG-S20
C13	.005		TTP-005	CK-502	HOY101ZV502P	CCD-502	TA250	TG-D50
C14	.015		TTP-01	CK-103	HOY101ZV103P	CCD-103	TA110	TG-S10
C15	.056		TTP-05	CK-503	HOV101ZV503Z	CCD-503	TA150	TGL-S50
C16	.056		TTP-05	CK-503	HOV101ZV503Z	CCD-503	TA150	TGL-S50
C17	.056		TTP-05	CK-503	HOV101ZV503Z	CCD-503	TA150	TGL-S50
C18	180			CPR-180J	CD10E181J500	DM-15-181J	SX318	MS-318
C20	.05		TTP-05	CK-503	HOV101ZV503Z	CCD-503	TA150	TGL-S50
C21	.47			UK10-474	HCS3ROXR47P		MAG3047	HY-330
C22								

Automatic Part Number.

PARTS LIST AND DESCRIPTION (CONTINUED)

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CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R26A B	Tone Volume/Switch	10K 7500 Tap @ 4000	80A4506(1)	F1-10K,R16-10K, FFS107,RFS204, BB104,KR-4		QJ-2599A *	P14L,4114, RU14T53, OX1437A, IS2250,US41
	Tone Volume/Switch	10K 7500 Tap @ 4000	80A5406(2)	F1-10K,R16-10K, FFS113,RFS205, BA104,CA005, KR-4		QJ-2601A **	P14L,3114, RU752T53, OX1500A, IS2000,US41
	Tone Volume/Switch	10K 7500 Tap @ 4000	80A3494B(3)	F1-10K,R16-10K, FFS104,RFS112, BC102,KR-4		QJ-1882A ***	P14L,5118, RU752T53, OX1250A, IS1750,US41
	Tone Volume/Switch	10K 7500 Tap @ 4000	80A3469B(4)	F1-10K,R14-7500, FFS110,RFS201, BB106,KR-4		QJ-2591A****	FF14L(P14L, 4138)(8), RU752T53, OX1625,IS2187, US41
	Tone Volume/Switch	10K 7500 Tap @ 4000	80A4508(5)	F1-10K,R16-10K, FFS103,RFS113, BB100,KR-4		QJ-2600A #	P14L,4100, RU752T53, OX1187,IS1812, US41
	Tone Volume/Switch	10K 7500 Tap @ 4000	80A4545(6)	F1-10K,R16-10K, FFS114,RFS206, BB108,SB004, KR-4		QJ-1689A ##	P14L,4112,SH41, RU752T53, OX1750,IS2250, US41
R27	Fader	40, 2W	81A4507(1)				
	Fader	40, 2W	80A3470(4)				
	Fader	40, 2 W	81A4509(5)				
	Fader	40, 2W	81A4546(6)				

- (1) Used in Model BP-7160.
(2) Used in Model CTP-7211A.
(3) Used in Models DHP-7133,DRX-7117,DX-7111, PFX-7105.
(4) Used in Model PC-7165.
(5) Used in Model SBP-7168A.
(6) Used in Model TCP-7170.

(7) Alter Bushing to meet requirements.

(8) Panel and Bushing components listed in parentheses may be substituted for the Panel unit.

* "CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements & Shafts: B11-116,P22-115(Panell),B21-115X,R26-206(Rear), S51 (Bushing), 76-1 (Switch)

"SNAPTROL" Equivalent: BU8(7), CF9,CR48T,SF11,SR50,GC
** "CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements & Shafts: B11-116,P22-115(Panell), B21-115X,R16-127 (Rear), QCB5A (7)(Bushing), 76-1 (Switch)

"SNAPTROL" Equivalent: BU15A(7), CF9,CR48T,SF11,SR47,GC
*** "CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements & Shafts: B11-116,P17-105 (Panell),B21-115X,R16-118 (Rear), S43 (Bushing), 76-1 (Switch)

"SNAPTROL" Equivalent: BU10 (7), CF9,CR48T, SF9, SR44, GC
**** "CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements & Shafts: B11-116,P22-121 (Panell), B21-115X,R1-200 (Rear), S9 (7) (Bushing), 76-1 (Switch)

"SNAPTROL" Equivalent: BU8 (7), CF9,CR48T,SF13,SR48,GC
"CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements & Shafts: B11-116, P17-105 (Panell), B21-115X,R26-124 (Rear), S6 (Bushing), 76-1 (Switch)

"SNAPTROL" Equivalent: BU8 (7), CF9, CR48T, SF8, SR45, GC
"CONCENTRIKIT" Equivalent: K-8 Kit with Base Elements & Shafts: B11-116, P17-123 (Panell),B21-115X, R9-202 (Rear), S8 (7) (Bushing), 76-1 (Switch), N4 (Mounting Nut)

"SNAPTROL" Equivalent: BU8 (7), CF9, CR48T, SF14, SR50, GC, N4

AUTOMATIC CUSTOM SERIES

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	RF Choke (6.2uh)	(14-6.2)	19-1004	4610	T859
L2	Antenna	(1)			
L3	RF	(1)			
L4	Oscillator	(1)			
T1	Input IF	(14A4301A)		8009	
T2	Output IF	(14A4302A)		8010	

(1) Part of M2

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L5	500ma	.5	10mh	(75A3082)	C-4095	TC-2	TR-155	TY17XT	

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

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TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	18 Tap	@ 8	(75A2638A)			TR-165		

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		MFGR. PART No.	JENSEN PART No.	QUAM PART No.	
SP1	4" x 10" PM 8 ohms	(73B4628)	P4X10V8	410A2Z8	Model BP-7160 Models CTP-7211A, DRX-7117, DX-7111, PFX-7105, PC-7165, SBP-7168A, TPC-7170 Model DHP-7133
	4" x 10" PM 8 ohms	(73B2737)	P4X10V8	410A2Z8	
	4" x 10" PM 8 ohms	(73B3276)	P4X10V8	410A2Z8	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	3AG 3 Amp AGW 4 Amp	108-303 (1) 108-400 (2)	In Fuse Block In Fuse Block	AGC 3 AGW 4		312003 303004		

(1) Models BP-7160, DHP-7133, DRX-7117, DX-7111, PFX-7105, SPB-7168A

(2) Models PC-7165, TPC-7170

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1 M2	Dial Lamp Tuner Tuner	78B3700/ 78B3800 78B4700	Model SBP-7168A

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
MODEL BP-7160		MODEL PFX-7105	
Knob, Tuning or Volume	48A5101	Knob, Tuning or Volume	48A5148
Knob, Tone or Fader	48A4455	Knob, Tone or Dummy	48A5149
Escutcheon	54D4540	Push Button	55A5150
Push Button	55A4557	Dial Pointer	84A3889
Dial Pointer	84A3846		
MODEL CTP-7211A		MODEL SBP-7168A	
Knob, Tuning or Volume	48A5083	Knob, Tuning or Volume	48A5101
Knob, Tone or Fader	48A5064	Knob, Tone or Fader	48A4457
Push Button	55A3882	Escutcheon	54D4541
Dial Pointer	84A3889	Push Button	55A4542
		Dial Pointer	84A3846
MODELS DPH-7133, DRX-7117, DX-7111		MODEL TPC-7170	
Knob, Tuning or Volume	48A4427	Knob, Tuning or Volume	48A4440
Knob, Tone	48A4428	Knob, Tone	48A5086
Knob, Dummy	48A4428-1	Knob, Fader	48A5085
Push Button	55A4496	Push Button	55A5166
Dial Pointer	84A4629	Escutcheon	54A5162
		Dial Pointer	84A3746/ 84A3846