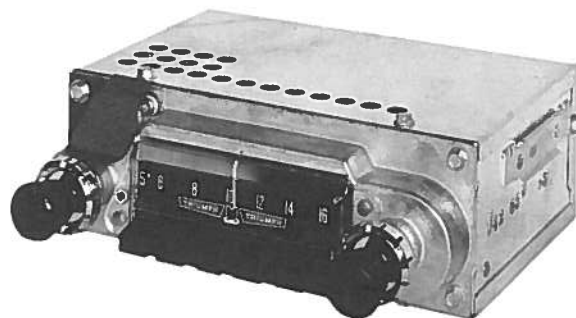




PHOTOFACT[®] with

CIRCUITRACE[®]

TRADE NAME: Triumph Model 5BTR (V-350) (1965)
 SUPPLIER: For Current Address, See Master Index
 TYPE SET: 6 Transistor AM Receiver
 POWER SUPPLY: 12 Volt Storage Battery
 RATING: .680 Amp. @ 12.6 Volts DC
 TUNING RANGE: BROADCAST 540-1605KC



ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
 Use only enough generator output to provide a usable indication.
 Suggested Alignment Tools:

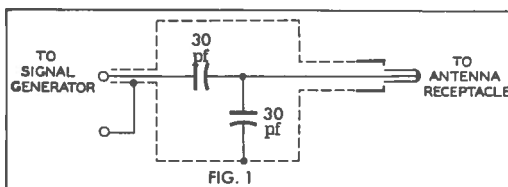
A1 thru A4 .. GENERAL CEMENT: 8606, 8606 L, 8869
 WALSCO: 2543, 2544, 2588
 A5, A6, A7.. GENERAL CEMENT: 8290, 8868, 9087
 WALSCO: 2525, 2528, 2587

PUSH-BUTTON ADJUSTMENT

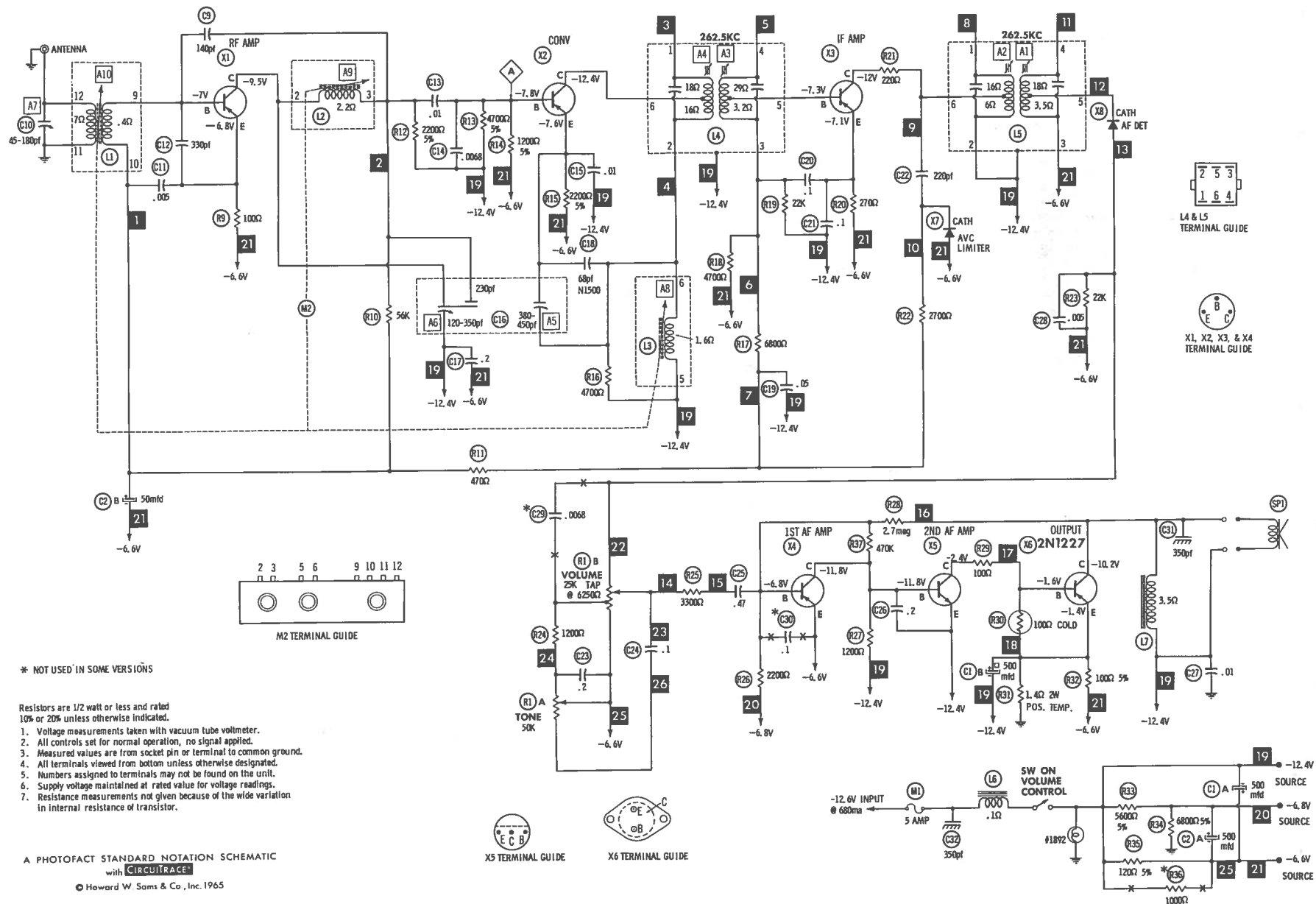
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

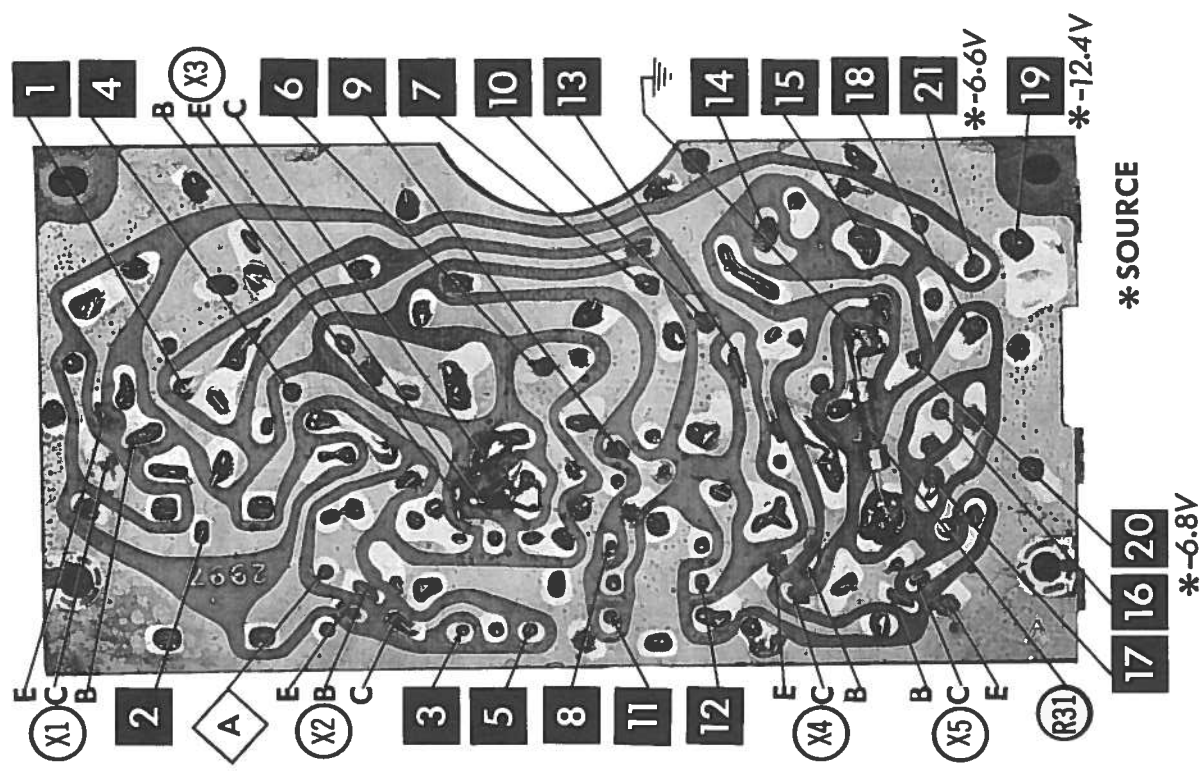
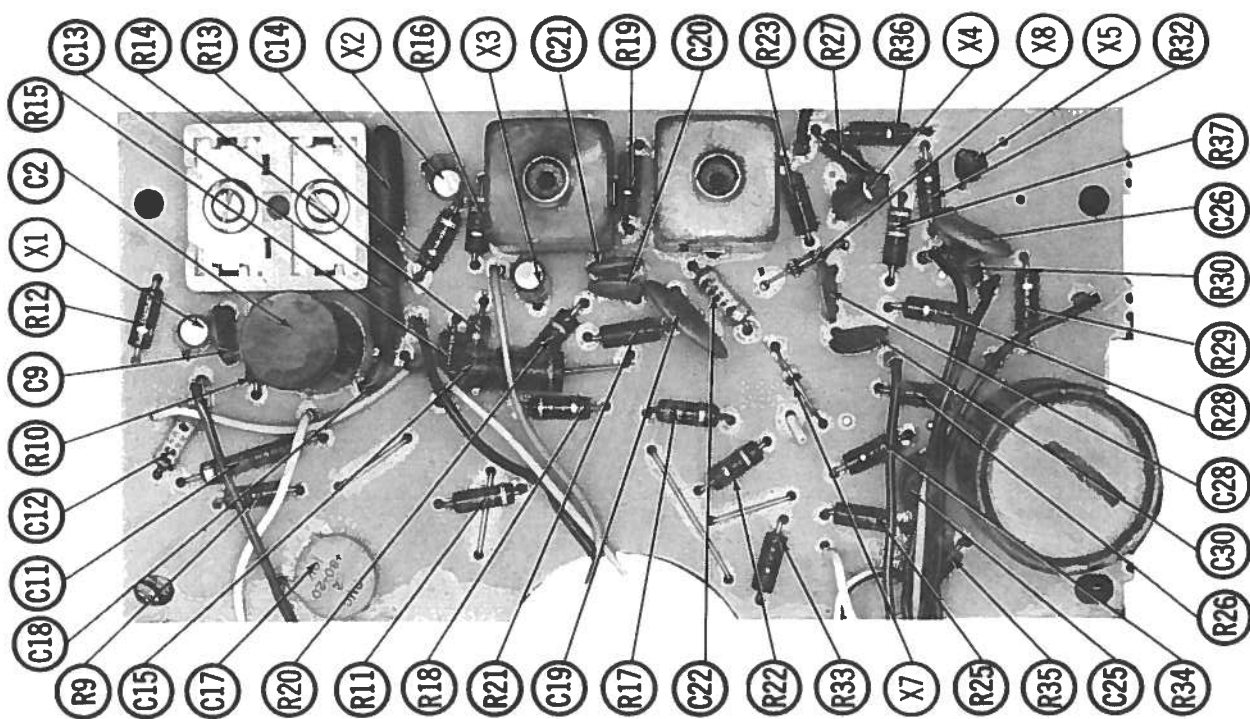
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru .1mfd to point A, low side to ground.	262.5KC (400% Mod.)	High Freq. End Stop.	Output Meter across voice coil.	A1, A2, A3, A4	Adjust for maximum.
2.	Thru dummy (Fig. 1) to antenna receptacle.	1605KC	"	"	A5, A6, A7	"
Step 3 is not necessary unless tuner has been tampered with or associated components have been replaced. IF necessary, back tuning cores (A8, A9, A10) out of coils but not out of forms. Repeat step 2.						
3.	Thru dummy (Fig. 1) to antenna receptacle.	1000KC	Tune to Signal.	Output Meter across voice coil.	A8, A9, A10	Adjust for maximum. Repeat steps 2 & 3 until no further improvement is noted.
With radio installed in car and antenna fully extended, tune in a weak station near 1600KC and adjust A7 for maximum output.						

Antenna Adjustment (A8) located Right Rear of Radio.



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





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.

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES	BENDIX Part No.
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.		
X1		RF Amp.	D8-25	GE-1	8K-3005	PNP	2091241-0015
X2		Converter	D8-25	GE-1	8K-3005	PNP	2091241-0013
X3		IF Amp.	D8-25	GE-1	8K-3005	PNP	2091241-0014
X4		1st AF Amp.	D8-28	GE-2	8K-3004	PNP	2090924-0008
X5		2nd AF Amp.	D8-48	GE-10		NPN	2092609-0706
X6	2N1227	Output	D8-520	GE-3	8K-3009	PNP *	2091859-0713

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

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS				DIODES
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.
X7		2092055-0001					1N34AS
X8		2092055-0001					1N34AS

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		BENDIX PART No.	REPLACEMENT DATA				
	CAP.	VOLT.		AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	500	16	220353-0030	PWH2-02-40			PFP200.65	PC18-2161.6 *
B	500	8						
C2A	500	3	2092246-0001	BCD3X50050			PET290	VLS-2116 *
B	50	3	(2092246-0703)					

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CAPACITORS

ITEM No.	RATING		REMARKS	REPLACEMENT DATA					
				AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C9	140		#2091221-0008	DI-150	DD-151	RR05CW151M	CCD-151	GP315	5GA-T15
C10	45-180			BPD-005	DD-502	BYX801ZU502P	CCD-502	B250	5HK-D50
C11	.005			DI-330	DD-331	JBZ801YP331K	CCD-331	JF333	10T8-T33
C12	330			DBE481	CPR-10000J	WMF181	1DP-1-103	PVC211	4PS-S10
C13	.01	100V	#219092-0023	DBE6D68	CPR-6800J	WMF1D68	6DP-1-682	PVC4268	6PS-D68
C14	.0068	100V		DBE481	CPR-10000J	WMF181	1DP-1-103	PVC211	4PS-S10
C15	.01	100V							
C16A	120-350								
B	230		#219092-0023						
C	380-450								
C17	.2				UK20-204			MAG25022	HY-325
C18	.08	N1500		TCL-68			*	*	
C19	.05			TTD-05	CK-503	HOV101ZV503Z		TA150	TG-S50
C20	.1			TTD-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C21	.1			TTD-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C22	220			DI-220	DD-221	JB601YP221K	CCD-221	JF220	10T8-T22
C23	.2				UK20-204			MAG25022	HY-325
C24	.1			TTD-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C25	.47				UK10-404			MAG12047	HY-330
C26	.2				UK20-204			MAG25022	HY-325
C27	.01		①	BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-81
C28	.005			BPD-005	DD-502	BYX801ZU502P	CCD-502	B250	5HK-D50
C29	.0068			DBE6D68	CPR-6800J	WMF1D68	6DP-1-682	PVC4268	6PS-D68
C30	.1			TTD-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C31	350		#2093050-0001						
C32	350		#2093050-0001						

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

① Not used in some versions.

CONTROLS

Bendix Part Number

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			BENDIX PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A	Tone Volume/Switch	50K 25K Tap @ 6250Ω	2091258-0004	F1-50K, R14-25K FFS111, RFS203, KR-4		† QJ-1752A	FA54L, RU253T53, OS1687, IB2187, US41

† "CONCENTRIKIT" Equivalent: K8 Kit, with Base Elements and Shafts: B11-123, P17-123 (Panel)
B19-119X, R9-202 (Rear)
78-1 (Switch)

"SNAPTROL" Equivalent: BU7, CF12, CR50T, 8F13, SR49, GC.

RESISTORS (Power and Special)

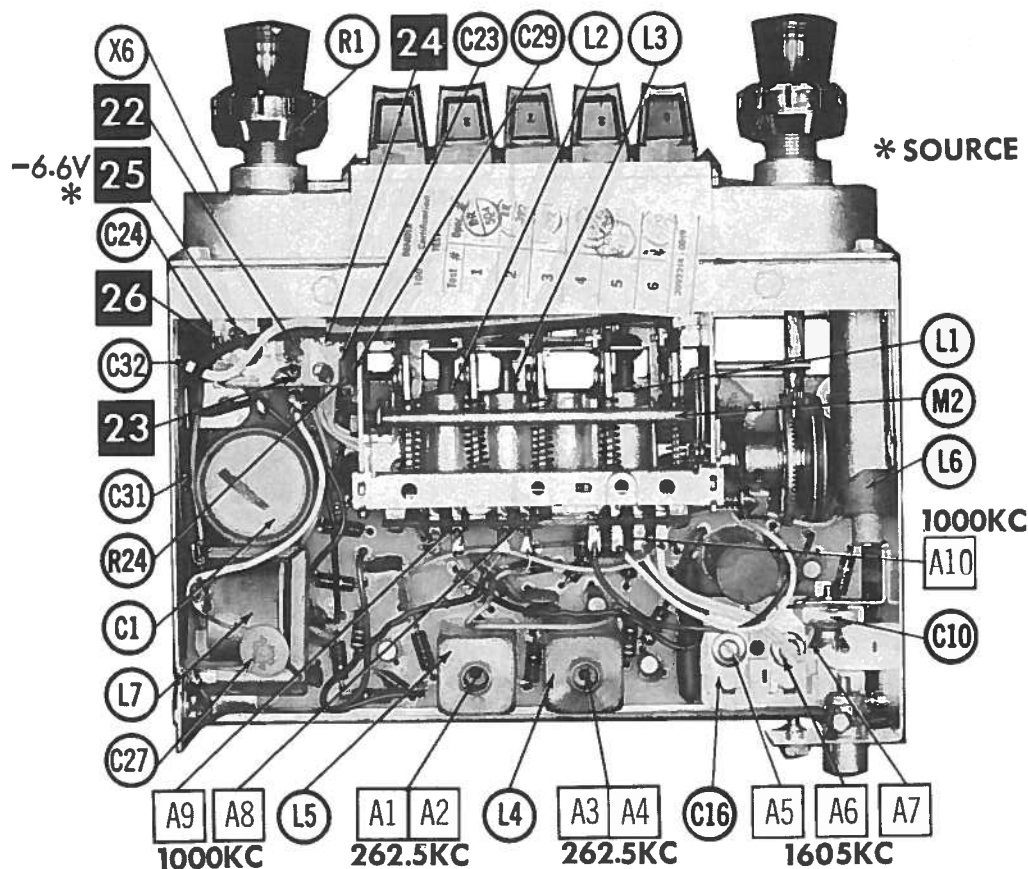
ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R30	100Ω (Cold)			#220629-0012	R31	1.4Ω 2W (PTC)			#2090948-0031

Bendix Part Number.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					
		BENDIX PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.
L1	Antenna	①					
L2	RF	①					
L3	Osc.	①					
L4	Input IF	2093001-0701	16-6710		6520	RTC-9395	TE634
L5	Output IF	2093002-0701	16-6711		6521	RTC-9396	TE634

① Part of M2.



PARTS LIST AND DESCRIPTION (CONTINUED)

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

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	BENDIX PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L6	680ma	.1Ω	240uh	2092050-0014					

CHOKE (AUDIO OUTPUT)

ITEM No.	INDUCTANCE	REPLACEMENT DATA					NOTES
		BENDIX PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L7	50MH	2092246-0005					

FUSE DEVICES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	1AG	5 Amp. 32V	2091817-0006		301005	155004A	AGA5	HAF

MISCELLANEOUS

ITEM No.	PART NAME	BENDIX PART No.
M2	Tuner Coil Assembly	2094086-0502 2090131-0063

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA	
		BENDIX PART No.	QUAM PART No.
SP1	5" x 7" PM 20Ω	2092481-0703	

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Escutcheon	2092709-0504	Pushbutton	2092224-0002
Dial Glass	2092474-0004	Dial Pointer	2090129-0033
Knob, Tuning or Volume	2091244-0002	Bezel	2092472-0001
Knob, Tone or Dummy	2092235-0001		

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.)