

PARTS LIST AND DESCRIPTIONS (Continued)

FOLDER 13
SET 611

PHOTOFACT® Folder with CIRCUITRACE®

PONTIAC
MODEL 983578

COILS (RF-IF)

		REPLACEMENT DATA					
ITEM No.	USE	DELCO PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	NOTES
L1	RF Choke (6.5uh)	7255738	BC-565	4610	RTC-8520	T858	① Wound on 12K
L2	Ant.	1221138					
L3	RF Choke	7279418 ①					
L4	RF	1221138					
L5	Osc.	1221151					
L6	Input IF	1221257	BC-344	13-PH1	RTC-8844	T855	
L7	Output IF	1221253	BC-424	6540			
L8	Hash Choke (1.4uh)	7241708					

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	DELCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	
L9	.960A	.6Ω	8MH	1221823				

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			DELCO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
TI	6.8	1	1221590					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	DELCO PART No.	Merit PART No.	Stoncor PART No.	Thordarson PART No.	Triad PART No.	
T2	10Ω	3-4Ω	7277230					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	DELCO PART No.	QUAM PART No.	
SP1	4"x 10"	PM	3-4Ω	7276482	410A2	Front Seat
	6"x 9"	PM	3-4Ω	7280082		Rear Seat, for Sedans
	6"	PM	3-4Ω	7277982		Rear Seat, for Convertibles

MISCELLANEOUS

ITEM No.	PART NAME	DELCO PART No.	NOTES
M1	Spark Plate	7271564	Sensitivity, Includes Push Bar For Push Bar (Used with Tuner F-4) For Solenoid (Used with Tuner F-4) For Push Bar & Solenoid (Used with Tuner F-3) Speaker Interlock Complete Includes Plunger Front-Rear Speaker
M2	Switch	7277537	
M3	Switch	7280870	
M4	Switch	7286030	
M5	Switch	1221408	
M6	Relay	7271425	
M7	Solenoid Assembly Switch	7270545 1221409 7277633	

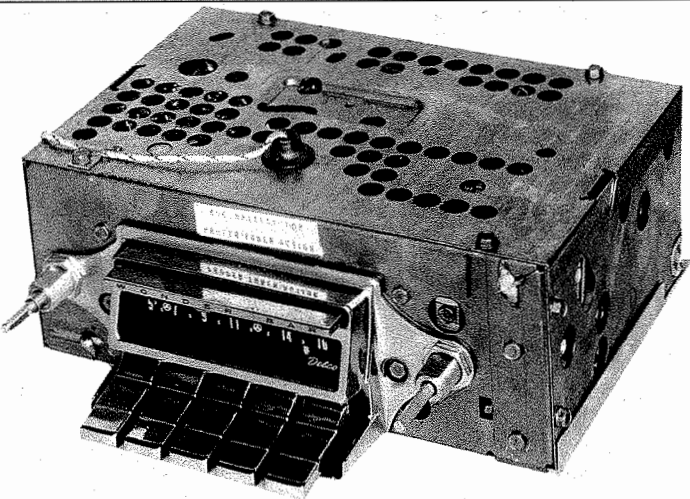
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	535908	Tuning, Solenoid
Knob	538821	Tone
Knob	538718	Dummy
Knob	535917	Front-Rear Speaker

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.)



MODEL 983578

TRADE NAME Pontiac Model 983578 (For 1962 Pontiacs)
MANUFACTURER Delco Radio Div., General Motors Corp., Kokomo, Indiana
TYPE SET Battery Operated 5 Tube - 1 Transistor Custom-Built Automobile AM Receiver
POWER SUPPLY 12 Volt Storage Battery RATING 2.4 Amp. @12.6 Volts DC (4.8 Amp. when Seeking)
TUNING RANGE—BROADCAST 540 — 1620KC

RADIO REMOVAL

NOTE: To replace tubes, remove four 1/4" hex screws holding cover and remove cover.

RADIO REMOVAL

1. Loosen two Allen screws and remove knobs.
2. Disconnect speaker leads, "A" leads and remove antenna plug.
3. Remove two 1/2-inch hex nuts from control bushings.
4. Remove 7/16-inch hex nut holding radio to rear mount.
5. Remove radio from rear of instrument panel.

SPEAKER REMOVAL

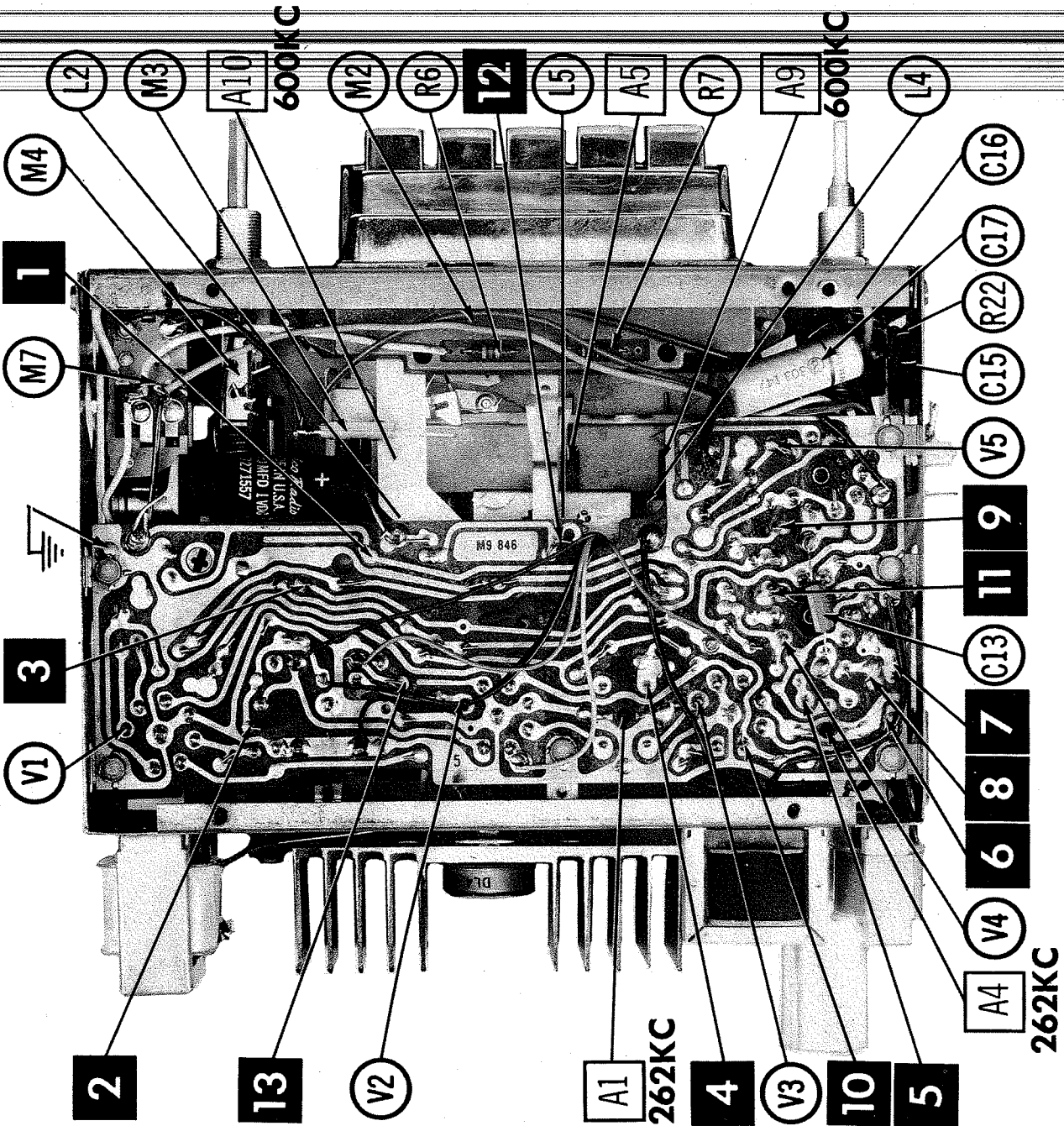
1. Remove four 3/8-inch stamped hex nuts holding speaker to mounting studs and remove speaker.

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



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CHASSIS - BOTTOM VIEW

ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

A Howard W. Sams CIRCUITACE Photo

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	RF Amplifier	12DZ6	V4	Det. -AVC-AF Amp.	12DV8
V2	Converter	12AD6	V5	Search Tuning Amp. -	12AL8
V3	IF Amplifier	12EK6		Search Tuning Trigger	

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	
X1	DS501	Output	GE-4			PNP Note 1

Note 1. When replacing, check bias adjustment.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		DELCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	REPLACEMENT DATA			
	CAP.	VOLT.				GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	1000	16	7273810	AFH3-54-41		XC3-6.1	WP300.9		TVL-3021.5
B	500	16							
C	4	11.5AC							
C2	1000	1	7271557	PRS1130	BR1000-6	QT1-32	TC310	TD-1000-6	TVA-1104

FIXED 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.
C3	50-100	#7274175						
C4	.047 75 V		P288N-047	DD-503	CUB2S47	1DP-2-473	GEM-4147	2TM-S47
C5	.1 75V		P288N-1	DDA-104	CUB2P1	1DP-2-104	GEM-201	2TM-P10
C6A	27 N470	#7279808				*		
B	43 N470					*		
C7A		#7273693						
B								
C8	220 5%		1469-220	DTZ-220	22R5T22	CM-20B-221J	B-220	MS-322
C9	.002		BPD-002	DD-202	BYA10D2	CCD-202		5HK-D20
C10	.1 75V		P288N-1	DDA-104	CUB2P1	1DP-2-104	GEM-201	2TM-P10
C11	.1 75V		P288N-1	DDA-104	CUB2P1	1DP-2-104	GEM-201	2TM-P10
C12	100 5%		1469-100	DTZ-100	22R5T1	CM-20B-101J	MCB235	MS-31
C13	100 5%		1469-100	DTZ-100	22R5T1	CM-20B-101J	MCB235	MS-31
C14	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C15	27 NPO 10%			TCZ-27	C10Q27C	CCTO-270	CNO-427	10TCC-Q27
C16	560		DI-560	DD-561	L10T56	CCD-561	GP356	10TS-T56
C17	.33 100V		P288N-33	DD-221	DPMS4P33	1DP-4-334	GEM-2033	2PS-P33
C18A	220		DI-220	DD-221	L10T22	CCD-221	GP322	10TS-T22
B	220		DI-220	DD-221	L10T22	CCD-221	GP322	10TS-T22
C19	100		BPD-001	DD-101	L10T1	CCD-101	GP310	10TS-T10
C20	.047 100V		P288N-047	DD-503	CUB2S47	1DP-2-473	GEM-4147	2TM-S47
C21	.47 100V		P288N-47		CUB2P47	1DP-4-474	GEM-2047	2TM-P47
C22								

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

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA			
			DELCO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.
R1A	Tone	5meg	7279749			
B	Volume & Switch	5meg				
R2	Bias Adjust	175Ω, 65Ω Stop	7275554 ①			■ UE4325S

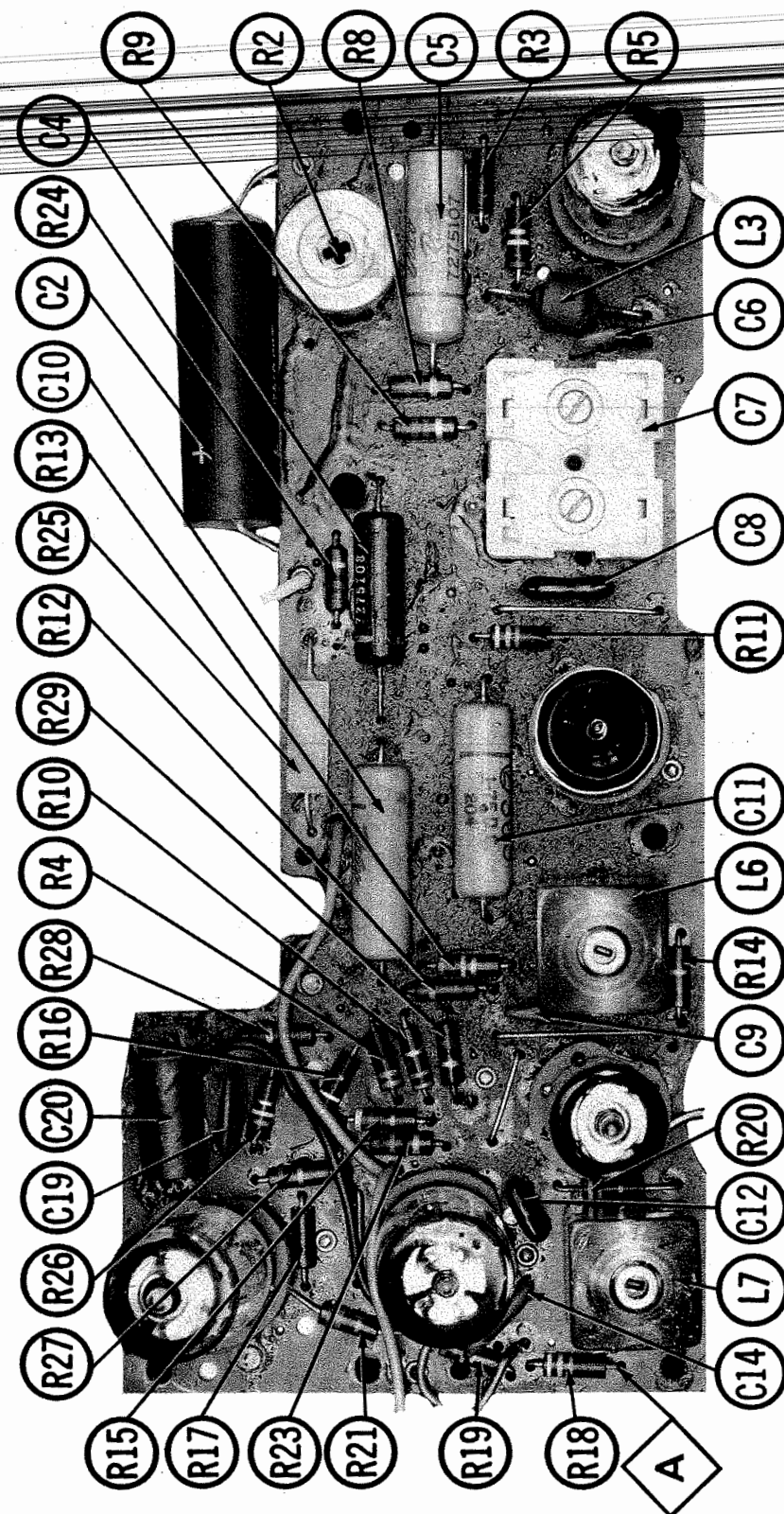
① Temperature Compensated. Alternate Part #1221422.
■ "STA-LOC" Equivalent: FG56A, RU56T26, OSI062, ISI750, US41

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R3	2.2meg				R17	1meg			
R4	3.3meg				R18	47K			
R5	150K				R19	680K			
R6	1800Ω				R20	4700Ω 5%			
R7	33K				R21	560Ω 5%			
R8	1.5meg			(1.8meg) †	R22	1.2meg			
R9	1.5meg			(1.8meg) †	R23	18Ω			
R10	3.3meg				R24	10Ω			
R11	47K				R25	.47Ω			
R12	1.5meg				R26	680K			
R13	680K				R27	27Ω 5%			
R14	150Ω				R28	2.2meg			
R15	4.7meg 5%				R29	56Ω			
R16	3.9meg 5%								

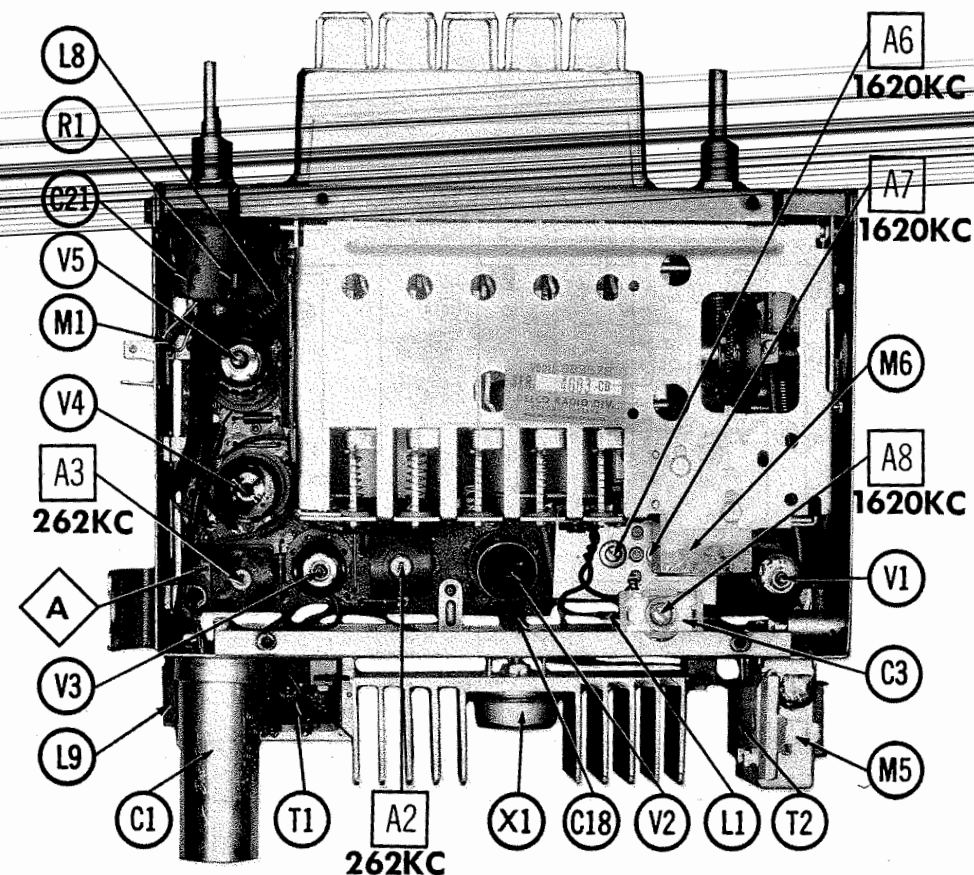
† Value used in some versions. Replace with 1.5meg.
Note 1. Fuse Type. Part #7270608.



PRINTED BOARD - TOP VIEW

PONTIAC
MODEL 983578

FOLDER 13



CHASSIS - TOP VIEW

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS-READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools:

A1 Thru A4..... GENERAL CEMENT #8282, 8606, 8606-L, 9091

WALSCO #2526, 2541, 2542, 2543, 2544

A6, A7, A8..... GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291

WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru .1mf to Pin 7 (grid) of Converter. Low side to chassis.	262KC (Unmod.)	High Freq. Stop.	DC probe to point Δ , common to chassis.	A1, A2, A3	Adjust for maximum deflection.
2.	"	"	"	"	A4	Adjust for MINIMUM deflection.
Adjust setting of oscillator core A5. Rear of core should be 1 5/8" from mounting end of core form.						
3.	Thru dummy (Fig. 1) to antenna receptacle.	1620KC	"	"	A6, A7, A8	Adjust for maximum deflection.
4.	"	600KC	600KC	"	A9, A10	"
5.	"	1620KC	1620KC	"	A7, A8	"
6.	With radio installed in car and antenna fully extended, tune in a weak station near 1400KC and adjust A8 for maximum output.					

PUSH-BUTTON ADJUSTMENT

1. Tune manually to desired station.
2. Pull button out, then press in firmly.
3. Repeat for remaining buttons.

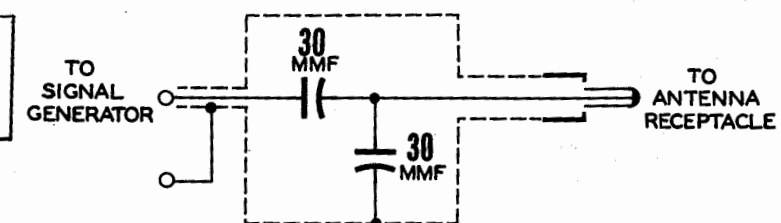
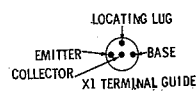
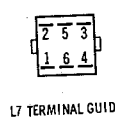
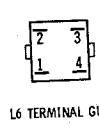
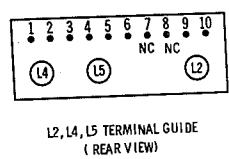
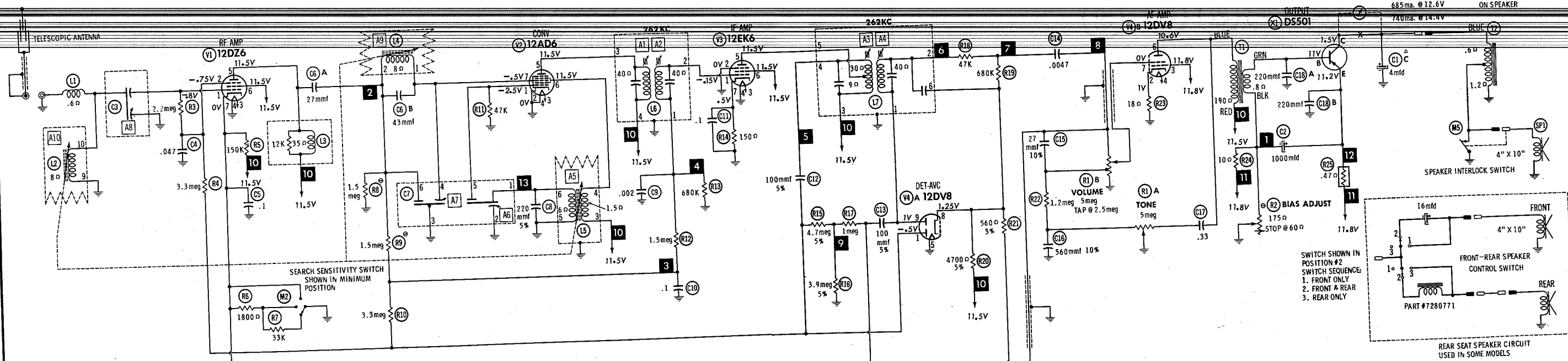


FIG. 1



RESISTANCE READINGS									
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1	12DZ6	11meg	9meg	FIL	FIL	90Ω	56Ω	0Ω	
V2	12AD6	47K	0Ω	FIL	FIL	100Ω	58Ω	1.5meg	
V3	12EK6	680K	0Ω	FIL	FIL	85Ω	56Ω	150Ω	
V4	12DV8	3.2meg	18Ω	.6Ω	FIL	FIL	250Ω	800K	580Ω
V5	12AL8	INF	2.2meg	INF	FIL	FIL	200Ω	27Ω	3.9meg

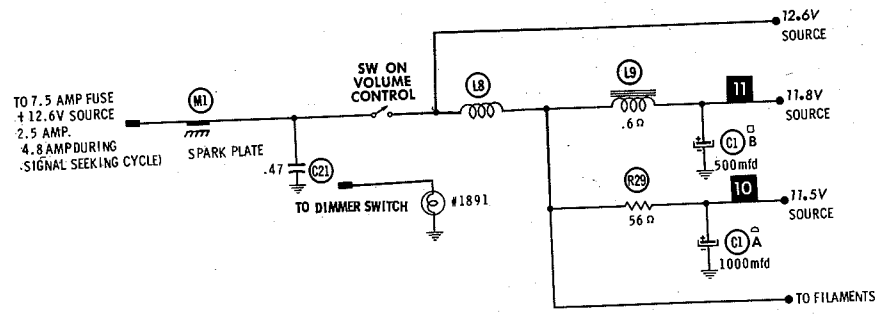
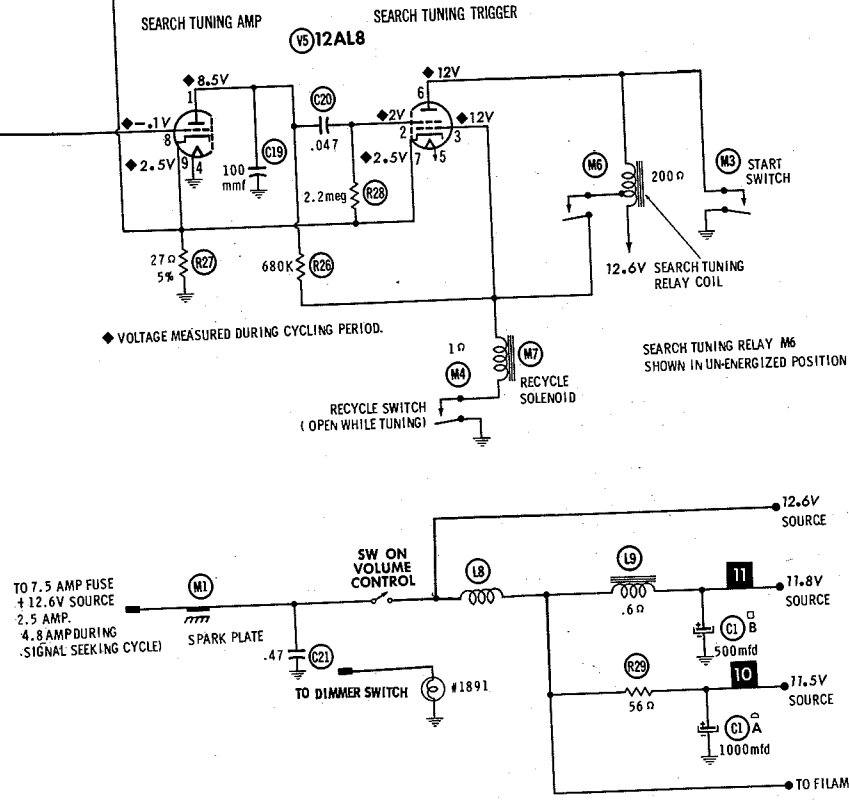
RESISTANCE MEASUREMENTS FOR X1 NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Battery voltage maintained at 12.6 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC with CIRCUITRACE[®]
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