



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE: Manufacturer Part Numbers Shown Are UNITED DELCO

MODELS 34BFM4 (73-1/2 Buick, Riviera)
44AFM2 (7935024) (74 Century)
44BFM3 (9344144) (74 Buick, Riviera)

ALIGNMENT INSTRUCTIONS

Check for specified source voltage

Use only enough generator output
to provide a usable indication.

Suggested Alignment Tools:

GC ELECTRONICS

T1, T4, T5 thru T9 9296, 9297, 9300

C1 thru C6 8290, 8868, 9087

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
High side thru .1mfd to point A low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T5, T6	Adjust for maximum.
Check setting of oscillator coil core L1F Rear of core should be 1 3/8" from mounting end of coil form.					
High side thru 82pf to antenna input, low side to ground.	1615kHz	High freq. end stop.	Output meter across voice coil.	C4, C5, C6	Adjust for maximum.
"	600kHz	600-kHz signal	"	L1D, L1E	Adjust for maximum. Repeat alignment.
With radio installed in car and antenna extended 33", tune in a weak station near 1400kHz and adjust C4 for maximum output. Antenna adjustment C4 is located behind tuning and dummy knobs.					

BUICK MODELS 34BFM4, 44AFM2/BFM3

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4AN576

ALIGNMENT INSTRUCTIONS (Continued)

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001mfd to point B		low side to ground.		
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point C common to ground.	T1,T4	Adjust for maximum.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Check setting of oscillator coil core L1C. Rear of core should be 1 3/8" from mounting end of coil form.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated	Low freq end	DC probe of VTVM to point B common to ground.	L1A,L1B	Adjust for maximum.
108 MHz Unmodulated	Tune to signal	"	C1,C2,C3	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

BOARD USING IC DM44 MPX DECODER

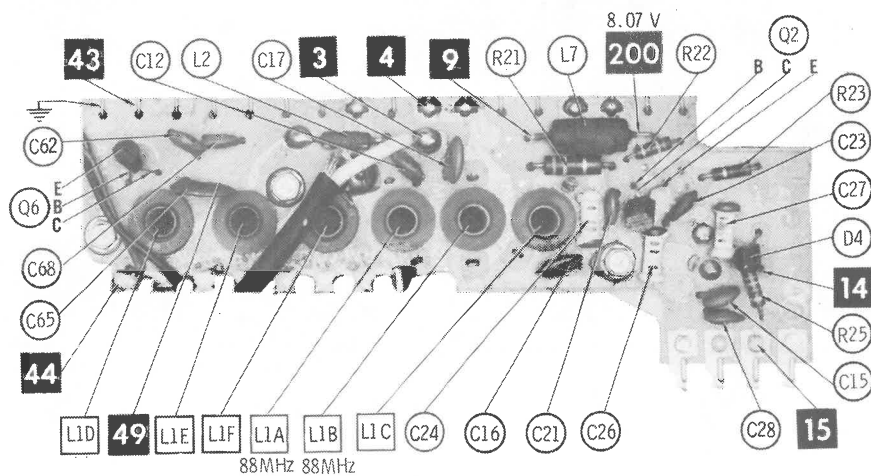
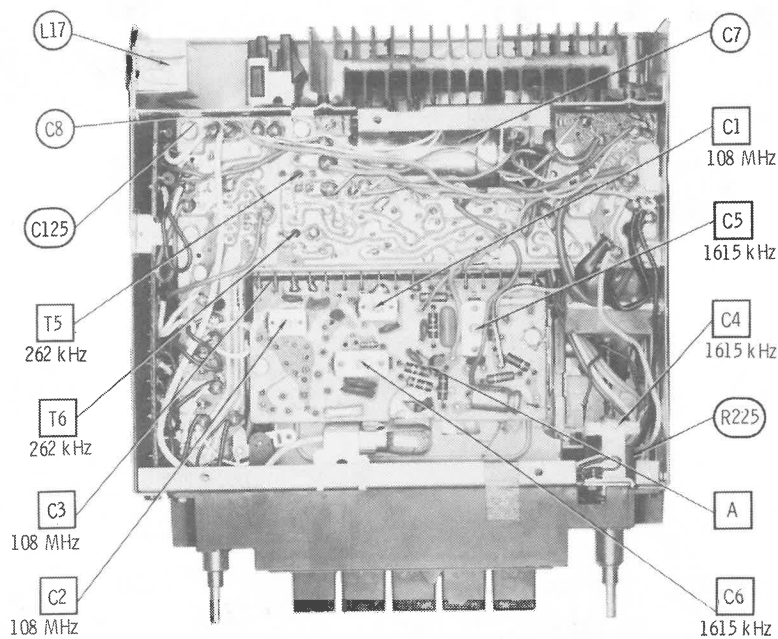
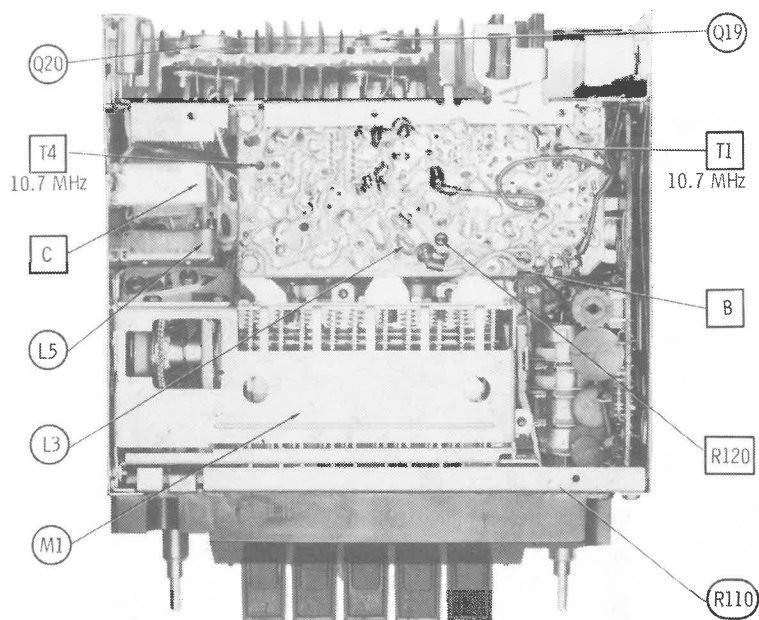
FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR ($\pm .0001\%$ ACCURACY)

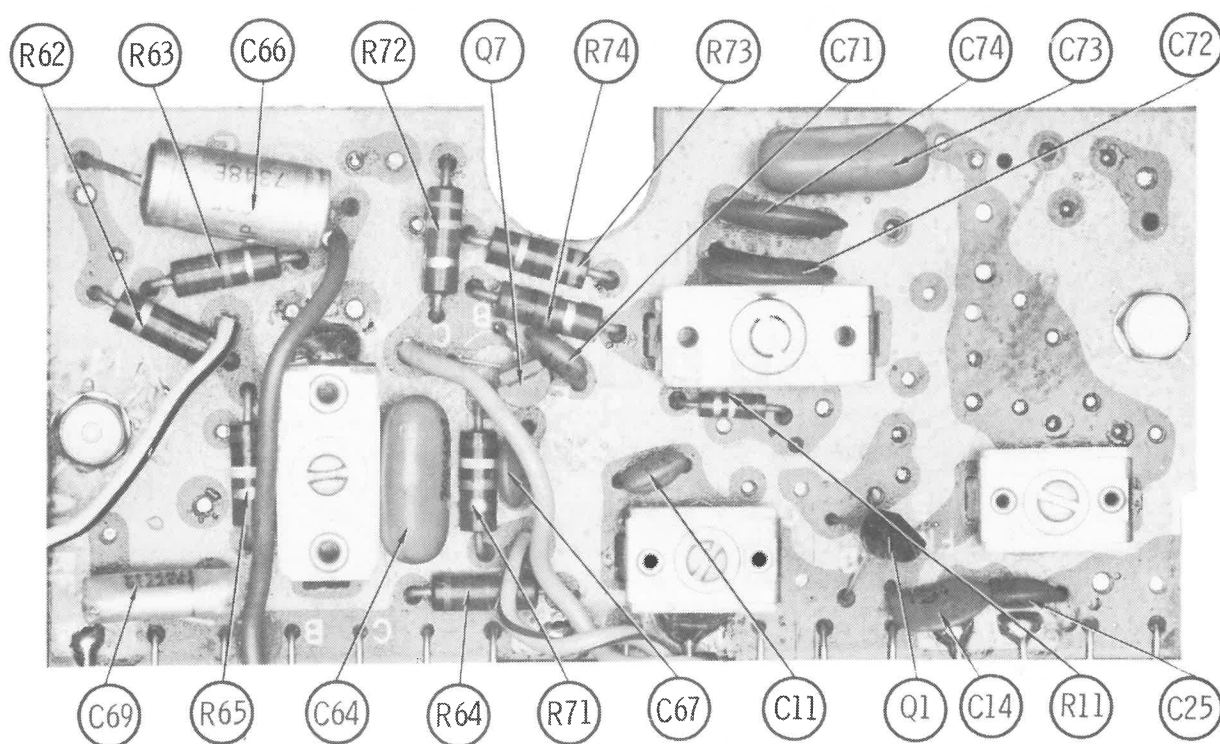
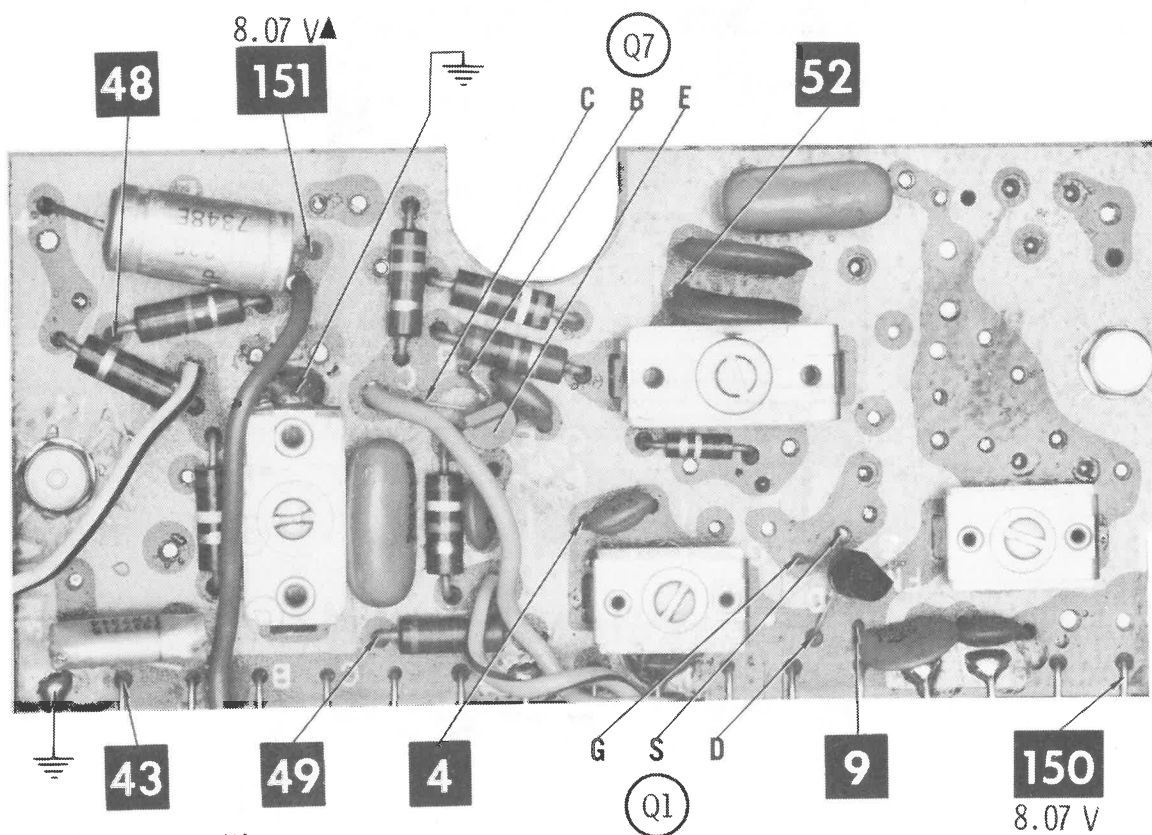
High side of generator thru 47K to point C		low side to ground.		
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
Modulated Left Channel	Vert input of scope to point D low side to ground.	R120,R184, R185	Adjust for MINIMUM. This step should require only slight adjustment.	
Modulated Right Channel	Vert input of scope to point E low side to ground.		Check for MINIMUM. If necessary, make compromise adjustment of R120,R184,R185	

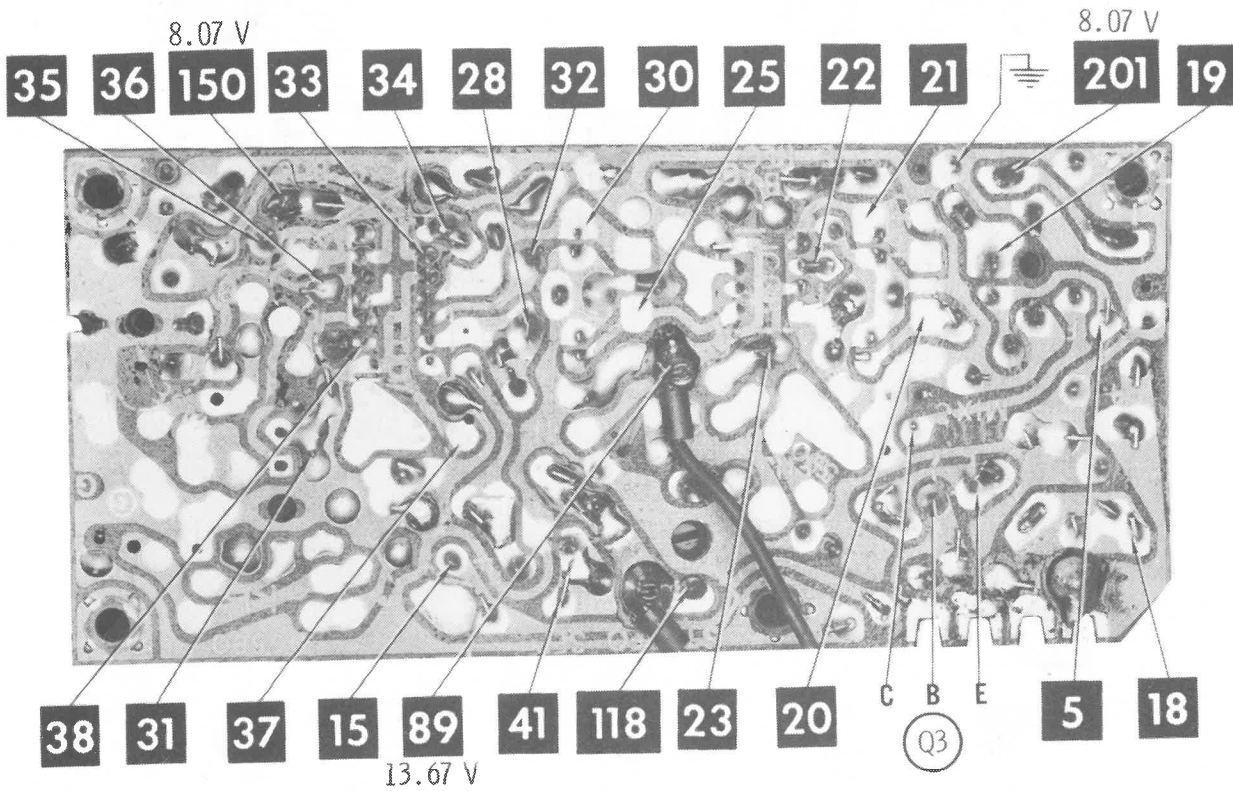
BOARD USING IC DM54 MPX DECODER

FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR ($\pm .0001\%$ ACCURACY)

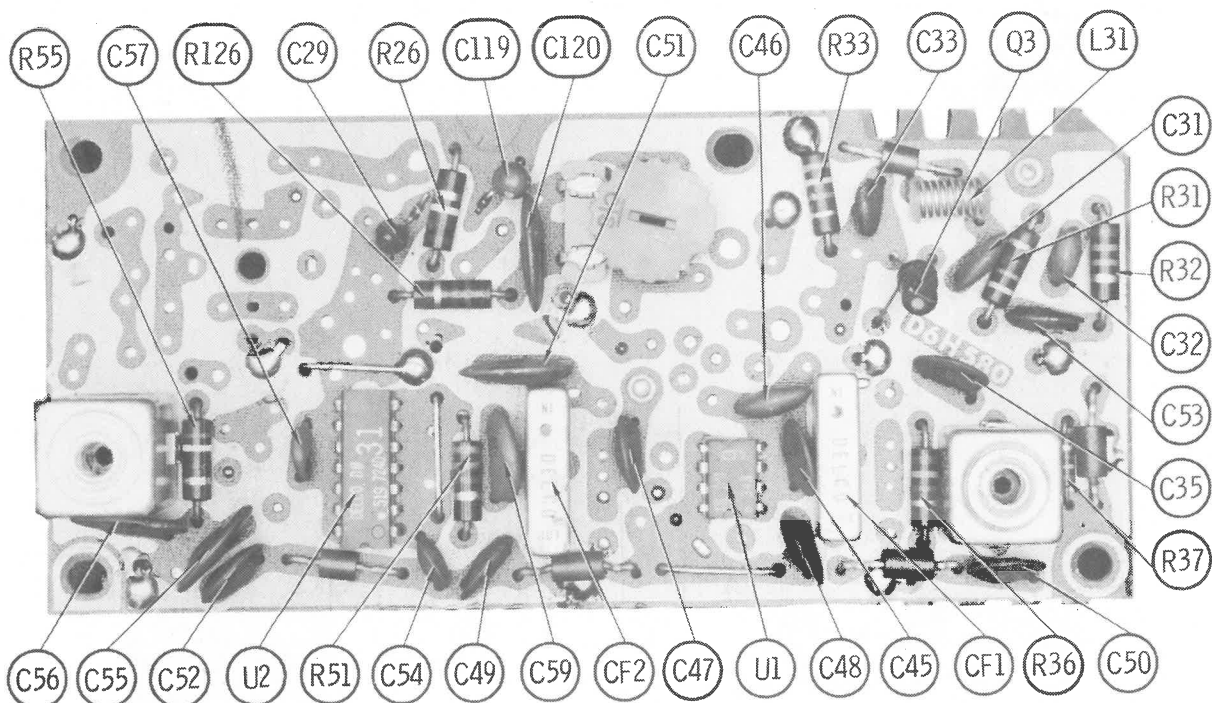
High side of generator thru 47K to point C		low side to ground.		
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
Modulated Left Channel	Vert input of scope to point D low side to ground.	T7,T8,T9 R120	Adjust for MINIMUM. This step should require only slight adjustment.	
Modulated Right Channel	Vert input of scope to point E low side to ground.		Check for MINIMUM. If necessary, make compromise adjustment of T7,T8,T9,R120.	

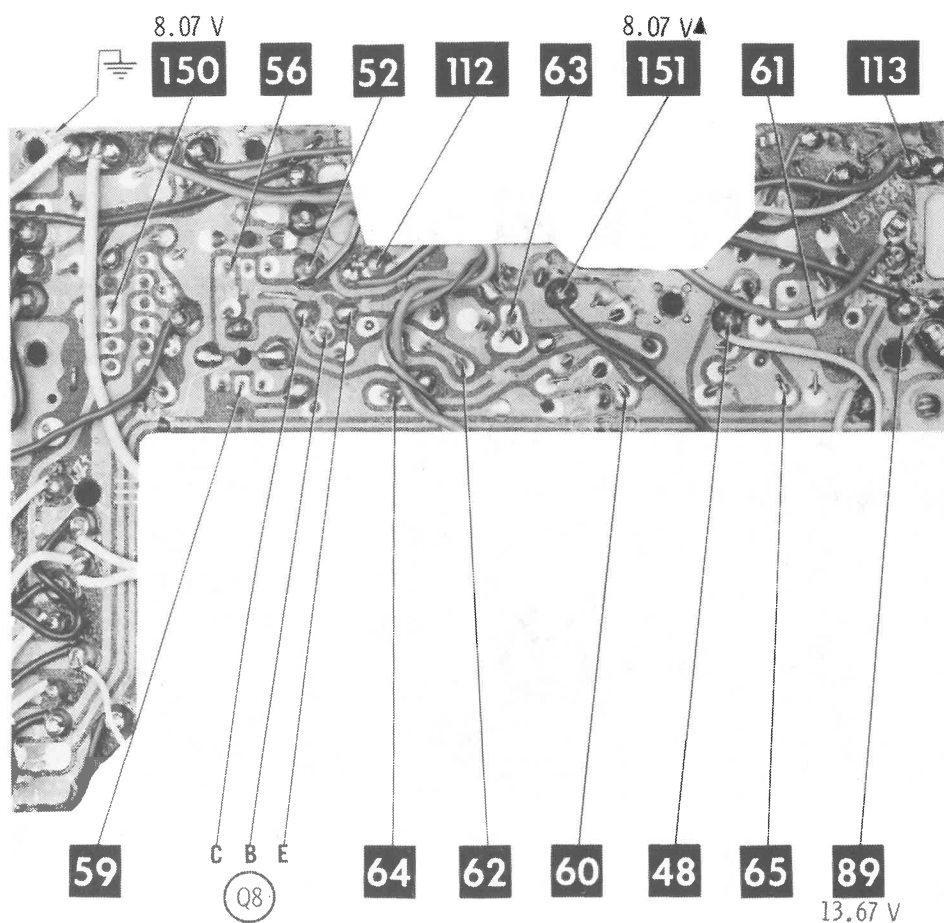




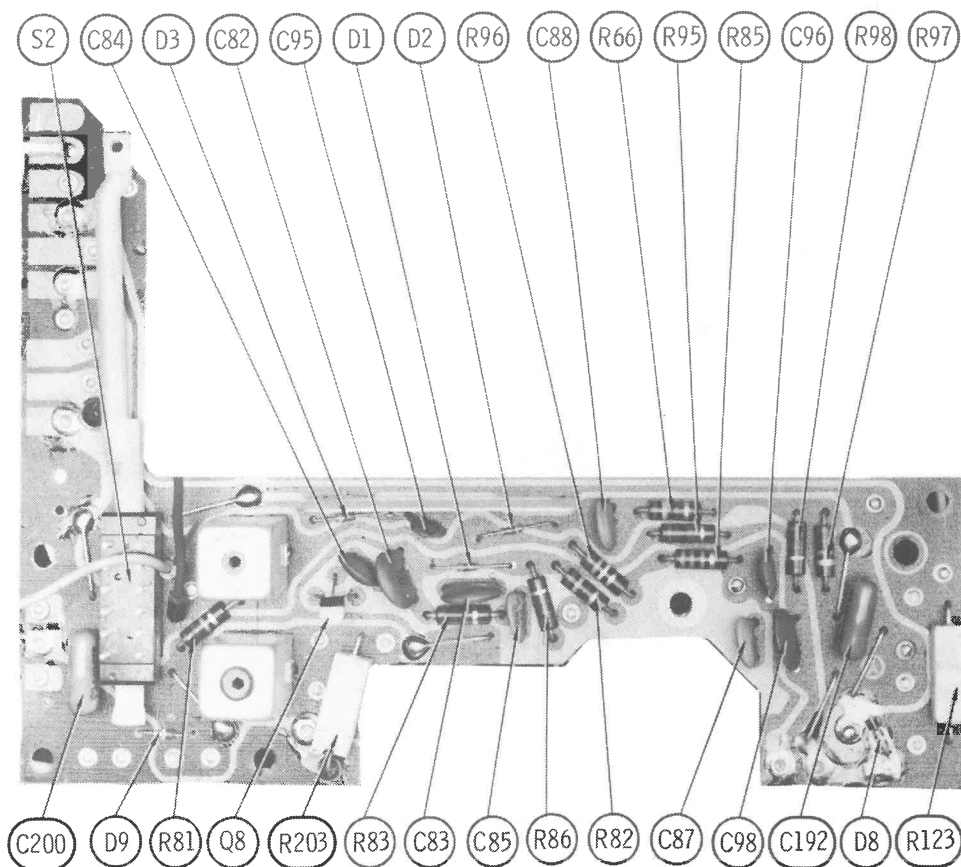


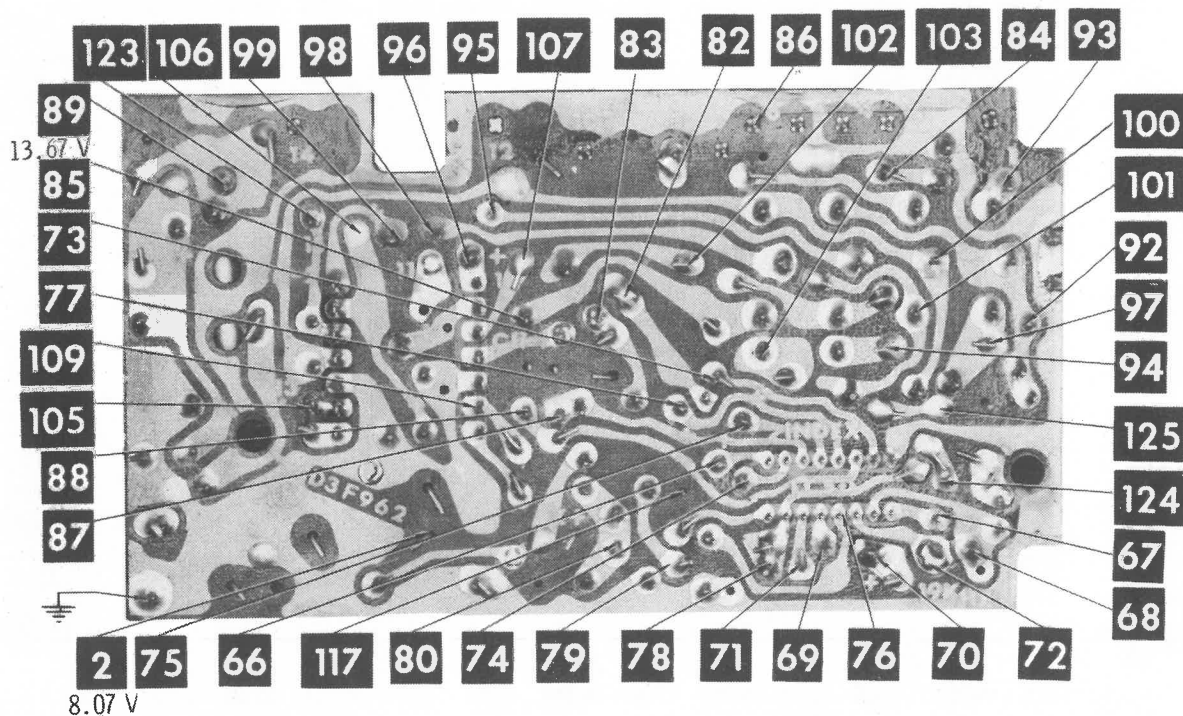
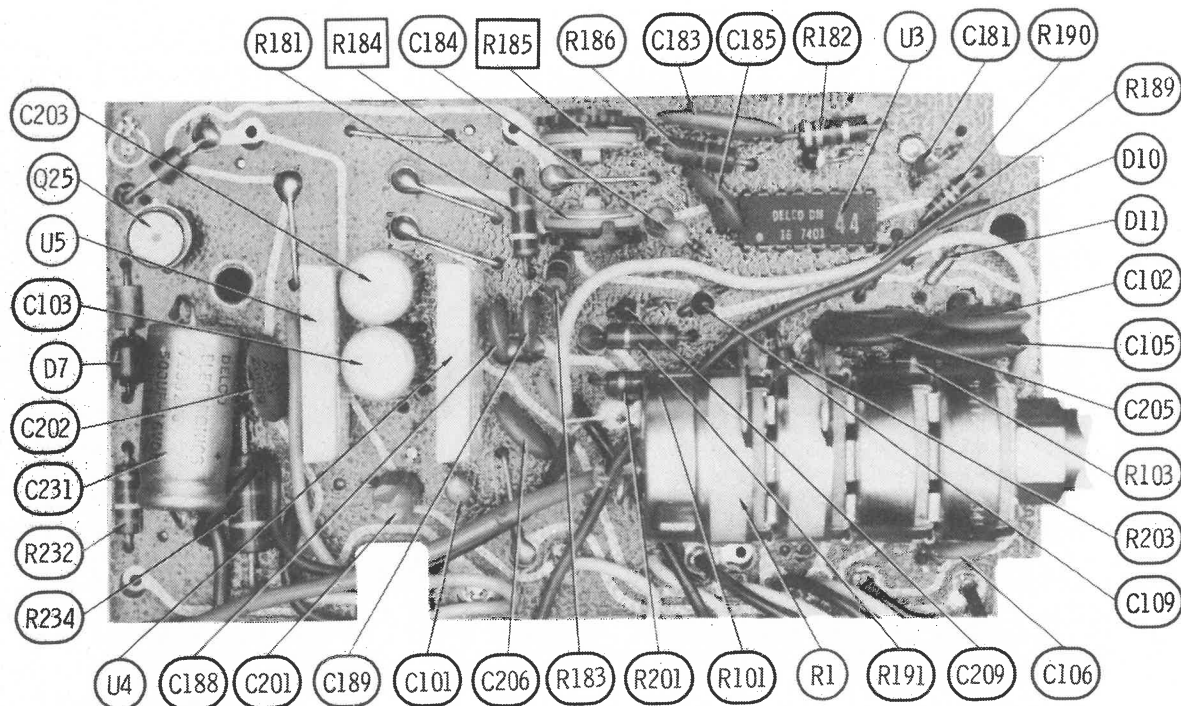
BUICK MODELS 34BFM4, 44AFM2/BFM3



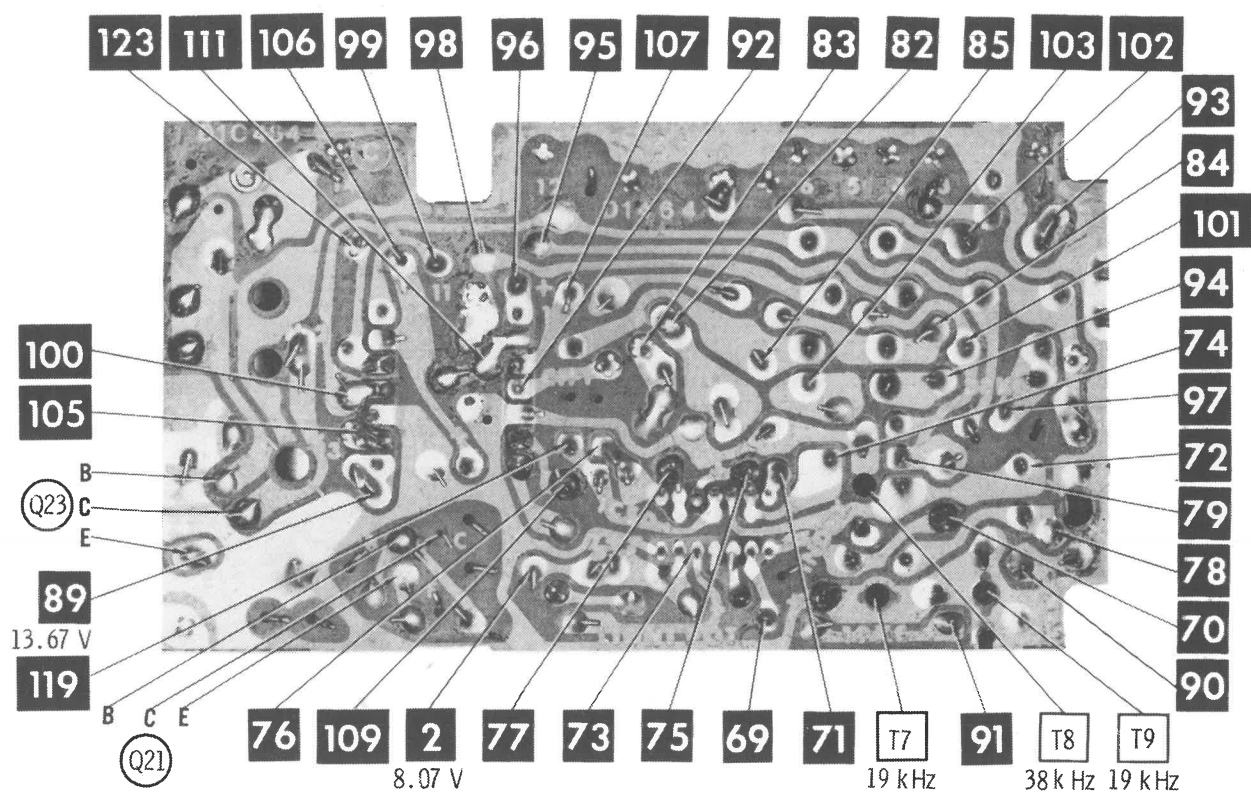
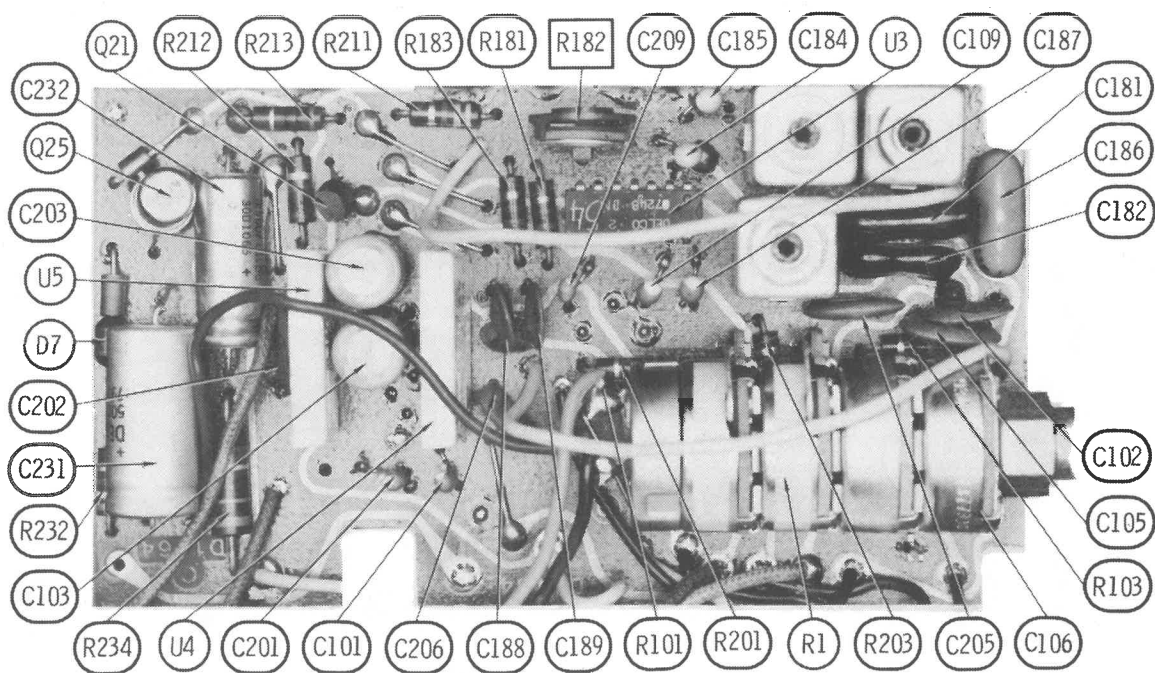


▲ - AM position





BOARD USING IC DM44 MPX DECODER



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.

MODULES/PLUG-IN BOARDS

ITEM No.	PART NAME	MFGR. PART No.	NOTES
U4	AF Amp	DM-29	
U5	AF Amp	DM-29	

SEMICONDUCTORS

ITEM No.	TYPE / MFGR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	DS97	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D2	DS97	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D3	DS97	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D4	DS55	GE-90 (8)	D201 (8)		HEPR2503(8)	SK3126 (8)		
D7	DS149 (8 V Zener)	GE-X11	Z-1208	ZB8.2	HEPZ0411	SK3059	RT239	ECG 5072
D8	DS189 (11V Zener)	GEZD-11	Z-1212	ZB11	HEPZ0414	SK3092	RT242	ECG 5074
D9	DS189 (11V Zener)	GEZD-11	Z-1212	ZB11	HEPZ0414	SK3092	RT242	ECG 5074
D10	DS97 (1)	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D11	DS97 (1)	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
Q1	DS88	GE-FET-2	FE-100	PTC152	HEPF0021	SK3116	RT175	ECG 132
Q2	DS82	GE-22	TR-19	PTC103	HEP54	SK3118	RT126	ECG 159
Q3	DS74	GE-61	TR-21	PTC115	HEP56	SK3018	RT108	ECG 107
Q6	DS68	GE-22	TR-28	PTC103	HEP52	SK3118	RT126	ECG 106
Q7	DS68	GE-22	TR-28	PTC103	HEP52	SK3118	RT126	ECG 106
Q8	DS68	GE-22	TR-28	PTC103	HEP52	SK3118	RT126	ECG 106
Q19	DS515	GE-16	TR-01	PTC105	HEP232	SK3009	RT127	ECG 121
Q20	DS515	GE-16	TR-01	PTC105	HEP232	SK3009	RT127	ECG 121
Q21	DS83 (3)	GE-21	TR-19	PTC103	HEP51	SK3025	RT115	ECG 159
Q25	DS512	GE-63	TR-25	PTC141	HEP243	SK3048	RT114	ECG 128
U1	DM9		IC505	PTC725			TVCM-14	ECG 734
U2	DM31			PTC703	HEP6062P	SK3135	TVCM-5	ECG 709
U3	DM54 (2)							ECG 719
U3	DM44 (2)							ECG 743

(8) Varactor

(1) Used with DM44 MPX Decoder only.

(2) Used in some versions.

(3) Used with DM54 MPX Decoder only.

BUICK MODELS 34BFM4, 44AFM2/BFM3

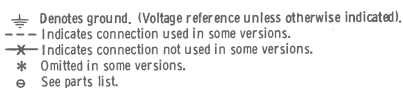
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C7a	1000 16 V	7939167					TVL-3027.10
b	1000 16 V						
c	500 16 V						
C29	3 10 V	7312286				TDC335M015EL	SD15-3R39
C66	40 10 V NP	7936358					
C101	3 10 V	7296348					
C103	250 3 V	7312284	RME-F-B-250	EA6-250	PC250-10	TDC335M015EL	SD15-3R39
C109	3 10 V	7296348				MTV250DB10	EV-1145
C119	15 6 V	7934110				TDC335M015EL	SD15-3R39
C181	2 10 V	7932103 (1)				TDC156M020FL	SD15-159
C182	.33 35 V	7936748 (1)				TDC225M020EL	SD25-2R29
C184	4.7 10 V	7936362 (2)				TDC334M050EL	SD35-R339
C184	3 10 V	7296348 (1)				TDC475M010EL	SD10-4R79
C185	4.7 10 V	7936362 (2)				TDC335M015EL	SD15-3R39
C187	3 10 V	7936348 (2)				TDC475M010EL	SD10-4R79
C201	3 10 V	7936348				TDC335M015EL	SD35-3R39
C203	250 3 V	7312284	RME-F-B-250	EA6-250	PC250-10	TDC335M015EL	SD35-3R39
C209	3 10 V	7296348				MTV250DB10	EV-1145
C231	500 16 V	7939206	ME-G500	EA15-500	WBR500-16	TDC335M015EL	SD35-3R39
C232	250 16 V	7936628	ME-8-E-250	EA15-250	WBR250-16	TC1505B	TVA-1162
						MTA250F15	TVA-1161

(1) Used in models using DM44 MPX Decoder.

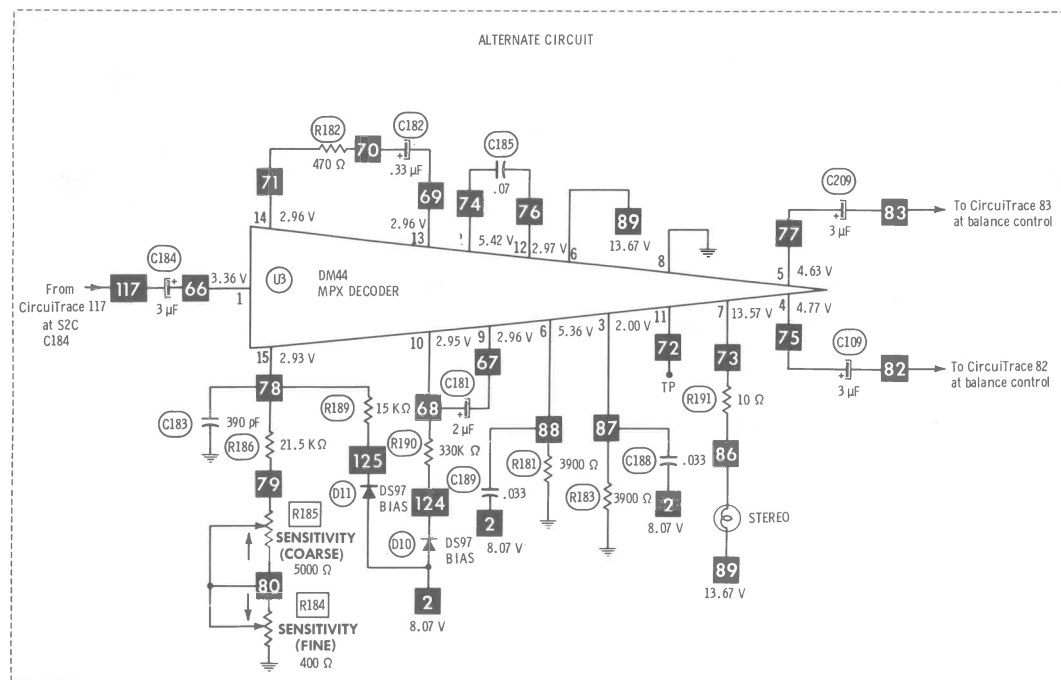
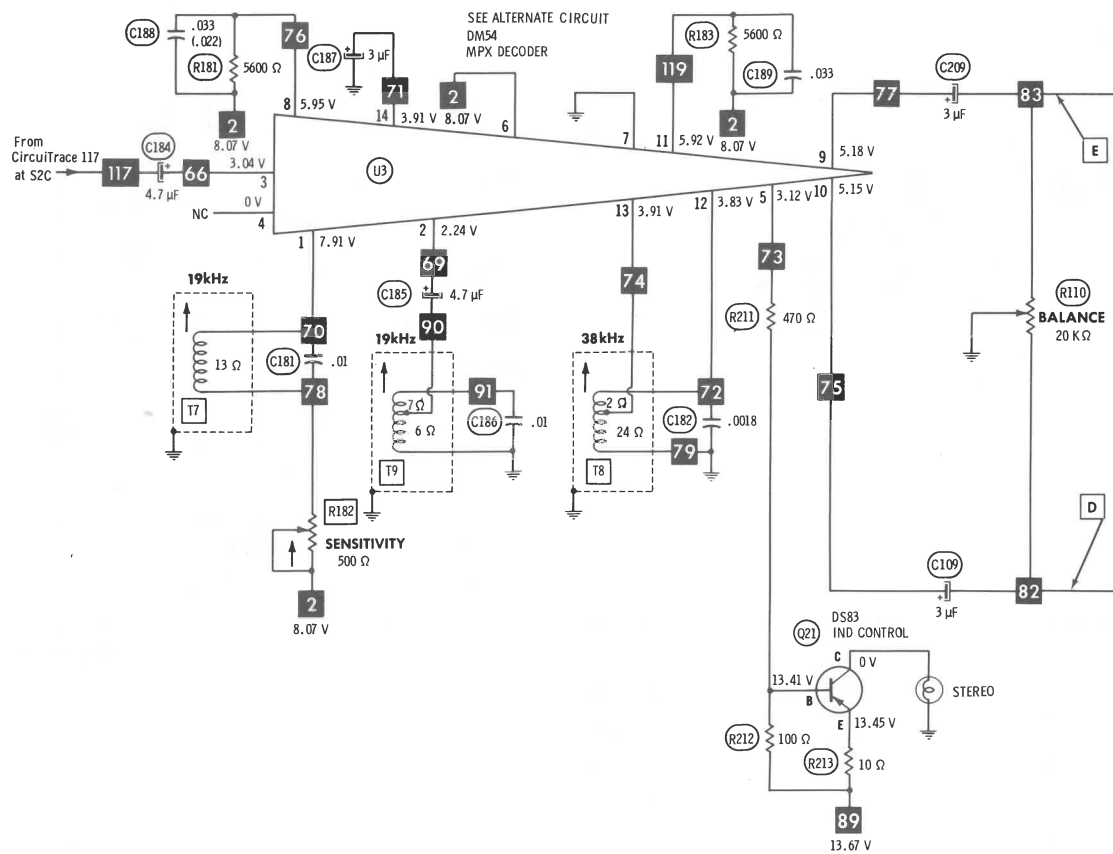
(2) Used in models using DM54 MPX Decoder.

(CONTINUED ON PAGE 46)



▲ Measured with switching in "AM" position.
Values shown in () are used in some applications.
Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
Supply voltage maintained at rated value for measurements.
Voltage and resistance measured with VTVM or equivalent meter,
no signal applied and controls adjusted for normal operation.
Arrow on control indicates direction of advance.
Numbers assigned to terminals may not be found on the unit.
Transistor resistances vary widely. No resistance measurements taken.

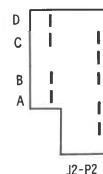
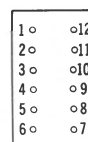
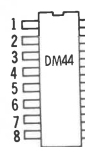
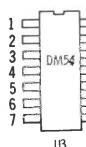
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A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITTRACE**
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SEE NOTES ON PAGE 42

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BUICK MODELS 34BFM4, 44AFM2/BFM3

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1		7293221					
C2		7293221					
C3		7931603					
C4		9342193					
C5		7312933					
C6		7295192					
C8		7271564					
C11	3.3 NPO			DTZ-3R3	NP03P3	CN0533	10TCC-V33
C12	2 NPO			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C14	47 NPO			DTZ-47	NP047	CN0447	10TCC-Q47
C15	270		CCT0-470	DD-271	GP270	GP327	10TS-T27
C16	18 NPO		CCD-270		NP018	CN0418	10TCC-Q18
C17	18 NPO		CCT0-180		NP018	CN0418	10TCC-Q18
C21	330		CCT0-180	DD-331	GP330	GP333	10TS-T33
C22	22		CCD-331	DTZ-20	NP020	CN0420	10TCC-Q20
C23	3.3 NPO		CCT0-200	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C24	3.3 N330						10TCS-V33
C25	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C26	1					CN0510	10TCC-V10
C27	5.6 N750						10TCU-V56
C28	270		CCD-270	DD-271	GP270	GP327	10TS-T27
C31	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C32	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C33	270		CCD-270	DD-271	GP270	GP327	10TS-T27
C35	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C45	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C46	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C47	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C48	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C49	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C50	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C51	.1			CK-104		TA010	TG-P10
C52	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C53	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C54	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C55	330 N2200		*			*	10TCY-T33
C56	.1			CK-104		TA010	TG-P10
C57	4.7 NPO			DTZ-4R7	NP04P7	CN0547	10TCC-V47
C59	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C62	270		CCD-270	DD-271	GP270	GP327	10TS-T27
C64	.0047 75 V		6DP-1-472		DMS6D47	EW6247	6PS-D47
C65	200 N750		CCTN-201	DTN-200		N7320	10TCU-T20
C67	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C68	4.7 NPO			DTZ-4R7	NP04P7	CN0547	10TCC-V47
C69	.0047 75 V		6DP-1-472		DMS6D47	EW6247	6PS-D47
C71	270		CCD-270	DD-271	GP270	GP327	10TS-T27
C72	165 N330		*			*	
C73	.0047 75 V		6DP-1-472		DMS6D47	EW6247	6PS-D47
C74	165 N330		*			*	
C82	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C83	.05		CCD-503	CK-503	MGP05	TA150	TG-S50
C84	91		CCD-910	DD-910		GP491	10TS-Q91
C85	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C87	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C88	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C95	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C96	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C98	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C102	.0068		CCD-682	DD-682		JF268	10TS-D68
C105	.3						HY-327
C106	.068		CCD-503	CK-503	MGP05	TA150	TG-S50
C120	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C125	.15 75 V		4DP-4-154		DPMS4P15	EW64015	4PS-P16
C181	.01	(1)	DM-30-103J	CPR-10000J		SX110	
C182	.0018	(1)	DM-20-182J	CPR-1800J	CD19FD182J03	SX218	MS-218
C183	390	(2)	CCD-391	DD-391	GP390	GP339	10TS-T39
C185	.07	(2)	CCD-503	CK-503	MGP05	TA150	TG-S50
C186	.01 75 V	(1)	1DP-1-103	CPR-10000J	DPMS6S1	EW61A110	225P10391WD3
C188	.033		CCD-203	CK-303		GP130	TG-S30
C189	.033		CCD-203	CK-303		GP130	TG-S30
C192	.047 75 V		1DP-2-473		DPMS6S47	EW61A147	225P47391WD3
C200	.047 75 V		1DP-2-473		DPMS6S47	EW61A147	225P47391WD3
C202	.0068		CCD-682	DD-682		JF268	10TS-D68
C205	.3						HY-327
C206	.068		CCD-503	CK-503	MGP05	TA150	TG-S50

(1) Used in models using DM54 MPX Decoder.

(2) Used in models using DM44 MPX Decoder.

PARTS LIST AND DESCRIPTION (CONTINUED)

(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.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS—IRC PART No.	MALLORY PART No.
R1a	Tone-Left	40K	7932631 (18)				
b	Tone-Right	40K					
c	Volume-Left	20K Tap 10K					
d	Volume-Right/Switch	20K Tap 10K					
a	Tone-Left	40K	9341235 (19)				
b	Tone-Right	40K					
c	Volume-Left	20K Tap 10K					
d	Volume-Right/Switch	20K Tap 10K					
R110	Balance	20K	7930069			U201R253B	MTC24L4
R120	Separation	5000	7310442 (20)	TSV-5K (3) or T-5000 (3)	C-502 (3)	U201R502B	MTC53L4
R182	Light Sensitivity	500	7932368	TSV-500 or T-500	C-501	X201R501B	MTC52L1
R184	Phase Lock Loop, Fine	5000	7309761 (21)	TSV-5K or T-5000	C-502	X201R502B	MTC53L1
R185	Phase Lock Loop, Coarse	500	9341034 (21)	TSV-5K or T-5000	C-502	X201R502B	MTC53L1
R225a	Fader-Right (Front-Rear)	100 2 Watt	7932340 (19)				
b	Fader-Left (Front-Rear)	100 2 Watt					
a	Fader-Right (Front-Rear)	100 2 Watt	9341236 (18)				
b	Fader-Right (Front-Rear)	100 2 Watt					

(3) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to PC board.
(18) Used in Models 34BFM4, 44BFM3 (9344144) 1973 & 1974 Buick & Riviera.
(19) Used in Models 44AFM2 (7935024) 1974 Century.
(20) Used in DM54 only.
(21) Used in DM44 only.

BUICK MODELS 34BFM4, 44AFM2/BFM3

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R123	.47 (Fusible)		7281890	R223	.47 (Fusible)		7281890

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	REMARKS
L1A	FM Ant	(1)			(1) Part of M1.
B	FM RF	(1)			(2) Used with DM54 MPX Decoder only.
C	FM Osc	(1)			
D	AM Ant	(1)			
E	AM RF	(1)			
F	AM Osc	(1)			
L2	RF Choke	7255738	19-1009	4611	
L7	RF Choke	7939798	19-1004	72F686AP	
L31	10.7 MHz Trap	7291800			
T1	FM IF	9340289			
T4	Quadrature	7311554			
T5	AM Input IF	7930517			
T6	AM Output IF	7930515			
T7	19 kHz	7932391 (2)			
T8	38 kHz	7932393 (2)			
T9	19 kHz	7932392 (2)			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L17	2.5A	.2	700 uH	7939202				

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR.	STANCOR	THORDARSON	TRIAD	
			PART No.	PART No.	PART No.	PART No.	
L3	14	Tap @ 10	9344555				
L5	14	Tap @ 10	9344555				

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				MFGR. PART No.	QUAM PART No.	
SP1	3-1/2"	PM	10 ohms	7934674		Left Front
SP2	3-1/2"	PM	10 ohms	7934674		Right Front
SP3	6" x 9"	PM	10 ohms	7937455	69A2Z10	Left Rear
SP4	4" x 10"	PM	10 ohms	7933542	410A2Z10	Left Rear: Station Wagon
	6" x 9"	PM	10 ohms	7937455	69A2Z10	Right Rear
	4" x 10"	PM	10 ohms	7933542	410A2Z10	Right Rear: Station Wagon

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 10 Amp		In Fuse Block	AGC10		311010		

ITEM No.	PART NAME	PART No.	NOTES
M1	Tuner Coil Assembly	1223104	
S2	Switch, AM-FM	7931682	
CF1	IF Filter	1223470	(10.7 MHz Red Dot)
CF2	IF Filter	1223470	(10.7 MHz Red Dot)

ITEM		PART No.
Dial Drum	44AFM2	7937201
Dial Drum	34BFM4,44BFM3	7932625
Escutcheon	44AFM2	7937204
Escutcheon	34BFM4,44BFM3	9344178
Dial Glass	44AFM2	7937205
Dial Glass	34BFM4,44BFM3	9344116

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.)