



STEREO AM-FM

<u>APPLICATION</u>	<u>1982 SERVICE REFERENCE NO.</u>	<u>PART NUMBER</u>
CORPORATE	20BFM1	16009960
CORVETTE	21YFM1	16009461
VAN	21GFM1	16020141

<u>APPLICATION</u>	<u>SERVICE REF. NO.</u>	<u>PART NO.</u>
TAPE		
CORPORATE	20BFMT1	16009970
VAN	21GFMT1	16020151
CASSETTE		
CORPORATE	20BFCT1	16008160
VAN	21GFCT1	16020161
CB		
CORPORATE	20BFMC1	16006980
VAN	21GFMC1	16020171

8-TRACK TAPE

<u>APPLICATION</u>	<u>1982 SERVICE REFERENCE NO.</u>	<u>PART NUMBER</u>
CORPORATE	20BFMT1	16009970
VAN	20GFMT1	16020151

<u>APPLICATION</u>	<u>1982 SERVICE REFERENCE NO.</u>	<u>PART NUMBER</u>
CORPORATE	20BFCT1	16008160
VAN	21GFCT1	16020161

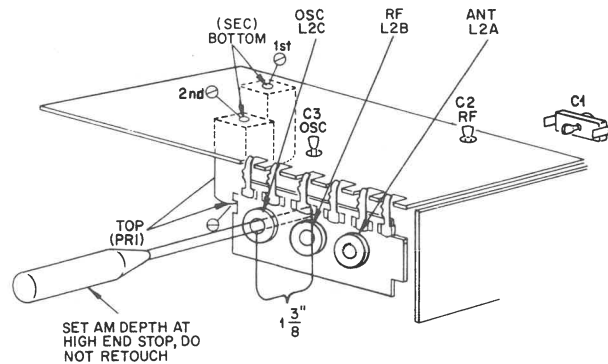
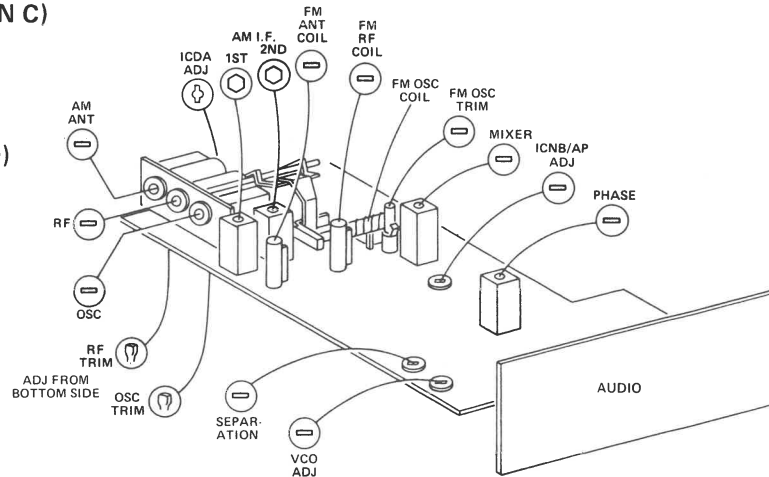
<u>APPLICATION</u>	<u>1982 SERVICE REFERENCE NO.</u>	<u>PART NUMBER</u>
CORPORATE	20BFMC1	16006980
VAN	21GFMC1	16020171

ALIGNMENT

2700cc SERIES (SECTION C)

FM STEREO
FM/TAPE
FM/DIGITAL
FM/CB
FULL FRONTAL (SEC. D)

Figure 1



CORPORATE AM (SECTION A)

Figure 2

*NOTE: DO NOT ADJUST CHEVETTE OSC, RF, OR ANT. CORES

IMPORTANT: Ant. trimmer should be repeaked after radio is installed in car (ant. capacities vary from 60 pf to 90 pf). Use weak station or noise near 1400KHz.

TURN VOLUME CONTROL FULLY CW. CONNECT AC VOLTMETER ACROSS SPEAKER LEADS. KEEP INPUT SIGNAL FROM SIGNAL GENERATOR LOW TO MINIMIZE AGC ACTION.

USE FIGURE 2

AM ALIGNMENT PROCEDURE (RED)

STEP	GENERATOR FREQUENCY	GENERATOR COUPLING	TUNER SETTING	ADJUST FOR PEAK
1	MODULATED 262 KHZ	THRU - 1MFD. INTO ANTENNA SOCKET	HI-END STOP	1ST SECONDARY 2ND SECONDARY 1ST PRIMARY 2ND PRIMARY
2	MEASURE DEPTH OF OSC. CORE WITH RADIO TUNED TO HI-END STOP. SHOULD BE 1 3/8".			
3	MODULATED 1615 KHZ	THRU 82 PF INTO ANTENNA SOCKET	HI-END STOP	TRIMMER
4	MODULATED 600 KHZ	THRU 82 PF	600 KHZ	CORES

IMPORTANT: FIRST MAKE CERTAIN AM IS OPERATING
PROPERLY: THE AM OSCILLATOR CONTROLS FM TUNING

USE FIGURE 1

FM ALIGNMENT PROCEDURE (BLUE)

STEP	GEN. FREQ. (MODULATED)	TUNER SETTING	ADJUSTMENT
1		HI-END STOP	ADJUST ICDA POT FOR 7.65 VOLTS AT ICDA PIN 9
2	108 MHZ	108	ADJUST FM OSC AND RF TRIMMERS FOR MAXIMUM AUDIO
3	88 MHZ	88	ADJUST FM OSC, RF, & ANT. COILS FOR MAXIMUM AUDIO
4	99 MHZ	TO GEN.	ADJUST MIXER AND PHASE TRANSFORMERS FOR MAX. AUDIO

USE FIGURE 1

DM-44

STEREO ALIGNMENT PROCEDURE, PHASE LOCK LOOP

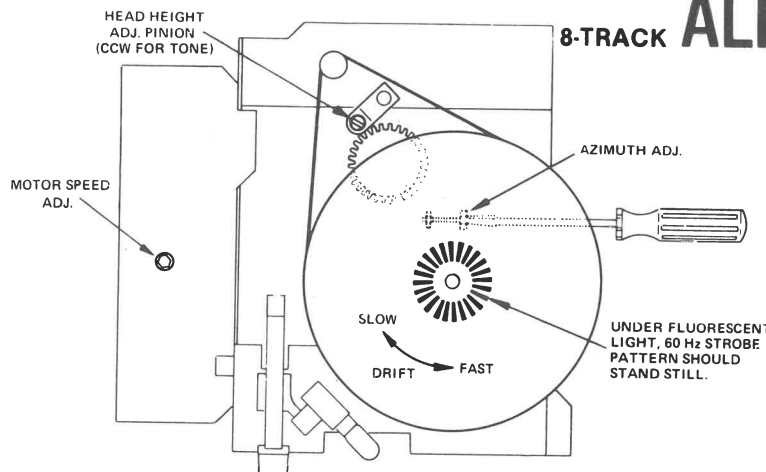
STEP	ACTION	ADJUSTMENT
1	AC GROUND PIN 1 OF DM-44 WITH A 2 MFD CAPACITOR AND UNSOLDER PIN 12 of DM-44	ADJUST VCO POT FOR 19KHZ. ± 120 Hz AT PIN 11 OF DM-44. RESOLDER PIN 12 AND REMOVE 2 MFD CAPACITOR
GENERATOR		TUNER SETTING
2	STEREO SIGNAL	TUNE RADIO TO SIGNAL
		PIN 11 (DM-44) MUST BE 19KHz. IF NOT, REPAIR BEFORE PROCEEDING.
3	STEREO SIGNAL — MODULATION ON ONLY ONE CHANNEL	TUNE RADIO TO GENERATOR
		ADJUST SEPARATION POT FOR MINIMUM AUDIO ON UNMODULATED CHANNEL

USE FIGURE 1

DM-105

AUDIO PROCESSOR ADJ.

STEP	GENERATOR SIG.	ICAP ADJ.	ACTION
1	STRONG STEREO SIGNAL ($\approx 1000 \mu V$)	FULL CCW (OFF)	TUNE TO SIGNAL AND ADJ. VOLUME CONTROL FOR 0db REFERENCE AUDIO LEVEL ON MODULATED CHANNEL.
2	DECREASE SIG. STRENGTH TO $25 \mu V$	CW (Approx $\frac{1}{2}$ TURN)	TURN ICAP ADJ. CW UNTIL MOD. CHANNEL AUDIO DROPS 1db.

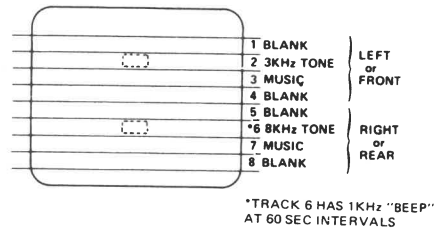


8-TRACK ALIGNMENT

Test Tape J-22683-01 is available from:

Kent-Moore Corporation, Tool Division
29784 Little Mack, Roseville, Michigan 48066
Telephone: (313) 774-9500

RCA Test Tape 321 is also recommended, especially for head height.



HEAD HEIGHT (CROSSTALK)

USING J-22683: PROGRAM 1, FULL VOLUME—TURN PINION OR SCREW UNTIL TONE IS HEARD, THEN BACK IT OFF UNTIL TONE DISAPPEARS.

PROGRAM 4, FULL VOLUME—SHOULD BE QUIET

USING RCA 321: PROGRAM 2, MODERATE VOLUME—ADJUST FOR NULL (OR EQUIVALENT)

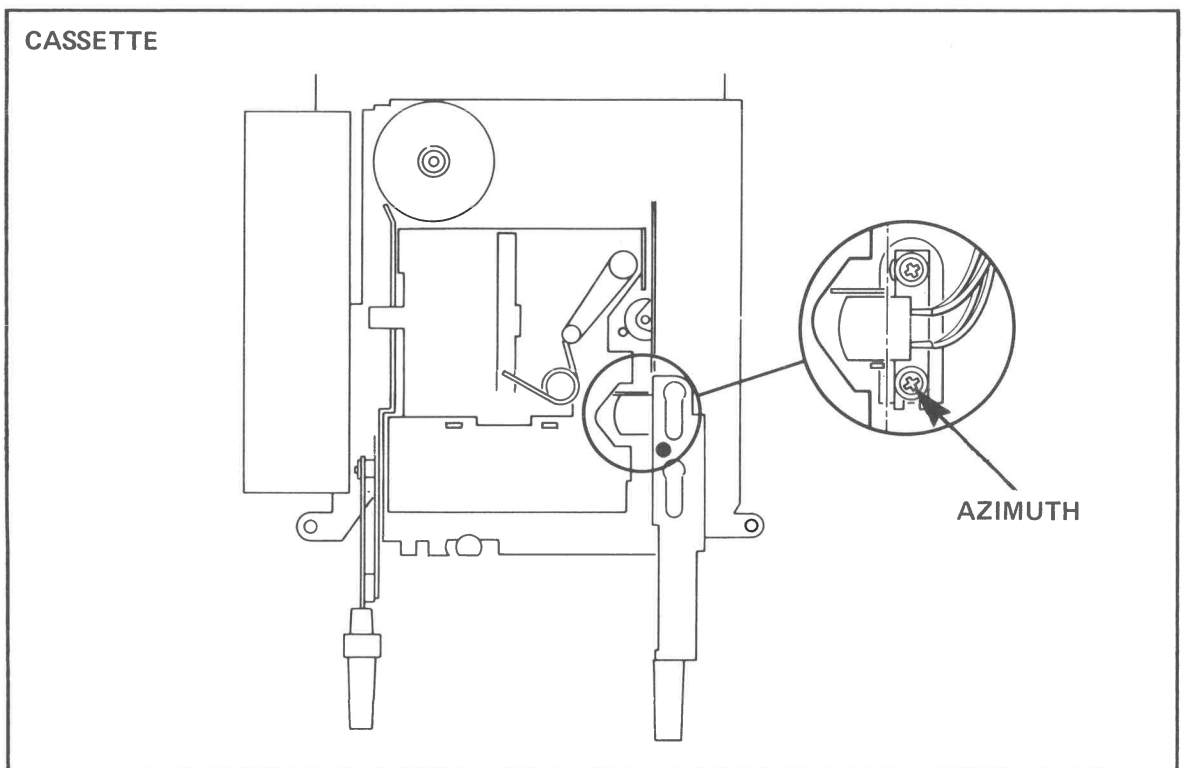
AZIMUTH (HIGH FREQUENCY)

EITHER TAPE: PROGRAM 2, HIGH VOLUME—MONITOR 8KHz TONE, ADJUST FOR MAXIMUM, RE-CHECK HEAD HEIGHT.

MOTOR SPEED ADJUSTMENT

ANY GOOD TAPE: WITH A FLUORESCENT LIGHT POSITIONED ABOVE THE FLYWHEEL, ADJUST MOTOR SPEED UNTIL THE 60Hz STROBE PATTERN IS MOTIONLESS OR DRIFTING SLIGHTLY CCW (FAST).

STEP	TEST TAPE SIDE	VOLUME OR FRONT-REAR	EQUIPMENT	ADJUSTMENT
AZIMUTH (HIGH FREQUENCY) ADJUSTMENT				
1	2	VOLUME - FULL & FRONT-REAR CON- TROL ON FRONT (CW)	AC VTVM ACROSS EITHER FRONT SPEAKER	PEAK AZIMUTH ADJUSTMENT SCREW FOR MAXIMUM 8KHz TONE
MOTOR SPEED CHECK				
2	1	—	—	TIME 1KHz BEEPS (58-60 SECOND INTERVALS). IF OUTSIDE LIMITS — REPLACE MOTOR.



Test Tape J-23724 is available from:

**Kent-Moore Corporation, Tool Division
29784 Little Mack, Roseville, Michigan 48066
Telephone: (313) 774-9500**

**Side 1: Beep at 60 second intervals
for motor speed check.**

**Side 2: 8 KHz tone for azimuth and
balance control adjustment.**

VCO

STEP	CHANNEL		MODE	
1	1	FREQUENCY COUNTER TO PIN 3 OF DM-88	RECEIVER	ADJUST VCO TRIMMER (C1) FOR A READING OF 10.240 MHz.
2	1	VTVM - 5 VOLT SCALE TO ISLAND S2	RECEIVE	PEAK VCO COIL (L6) FOR A READING OF AT LEAST 1.5V ON CHANNEL 1, BUT NO MORE THAN 4.0V ON CHANNEL 40.

RECEIVER

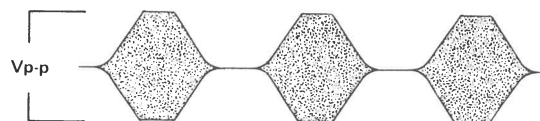
CONNECT AC VOLTMETER ACROSS SPEAKER TERMINALS

1	20	APPLY MODULATED 27.205 (CHAN. 20) TO THE ANTENNA OF THE CB, WITH 5 μ V INPUT OR LESS.	RECEIVE	ADJUST T1, T2 & T3 FOR MAXIMUM AUDIO OUTPUT.
2	20	APPLY MODULATED 27.205 (CHAN. 20) TO THE ANTENNA OF THE CB, WITH 5 μ V INPUT OR LESS.	RECEIVE	REPEAT STEP 1 UNTIL NO FURTHER GAIN IS NOTICED.

TRANSMITTER

CONNECT 50 Ω DUMMY LOAD TO OUTPUT OF CB

STEP	CHANNEL		MODE	
1	20	RF PROBE AT BASE OF Q5 DS-781 PRE-DRIVER	CB IN TRANS.	PEAK L1 & L2 FOR MAXIMUM RF (2 TO 2.5V RMS)
2	20	APPLY 1KHz MODULATION TO ISLAND 115 THROUGH A 10 MFD., CAP. MONITOR ISLAND 3 WITH SCOPE	CB IN TRANS.	INCREASE MODULATION UNTIL CLIPPING IS OBSERVED. PEAK L12 & L13 FOR MAXIMUM PEAK TO PEAK VOLTAGE



Illus. No.	Service No.	Description	Model No.								
				20BFM1	21YFM1	20BFMT1	21GFMT1	20BFMC1	20BFCT1	21GFCT1	21GFM1
SEMICONDUCTORS											
D1	DS-79	DIODE, SPIKE SUPPRESSION		X	X	X	X	X	X	X	X
D2	DS-55	DIODE, AFC		X	X	X	X	X	X	X	X
D3	DS-97	DIODE, AM DET.		X	X	X	X	X	X	X	X
D4	DS-97	DIODE, AUDIO GATE		X	X	X	X	X	X	X	X
D5	DS-97	DIODE, AUDIO GATE		X	X	X	X	X	X	X	X
D7	DS-31	DIODE, SPIKE SUPPRESSION		X	X	X	X	X	X	X	X
D8	DS-31	DIODE, SPIKE SUPPRESSION		X	X	X	X	X	X	X	X
D14	DS-97	DIODE, FM AGC		X	X	X	X	X	X	X	X
Q2	DS-105	TRANSISTOR, FM RF AMP, MOSFET		X	X	X	X	X	X	X	X
Q3	DS-94	TRANSISTOR, FM OSCILLATOR		X	X	X	X	X	X	X	X
Q7	DS-66	TRANSISTOR, AM BUFFER AMP		X	X	X	X	X	X	X	X
VC1	DS-190	DIODE, FM ANTENNA VARICAP		X	X	X	X	X	X	X	X
VC2	DS-190	DIODE, FM RF VARICAP		X	X	X	X	X	X	X	X
I-1	DS-450	INDICATOR, TAPE		X	X	X	X	X	X	X	X
I-2	DS-410	INDICATOR, STEREO—LED		X	X	X	X	X	X	X	X
U1	DM-32	MODULE, ICAM		X	X	X	X	X	X	X	X
U2	DM-37	MODULE, ICBM, BALANCED MIXER		X	X	X	X	X	X	X	X
U3	DM-51	MODULE, ICQD, QUAD. DET.		X	X	X	X	X	X	X	X
U4	DM-44	MODULE, ICSD, STEREO DECODER		X	X	X	X	X	X	X	X
U5	DM-98	MODULE, ICBA, BRIDGE AUDIO		X	X	X	X	X	X	X	X
U6	DM-98	MODULE, ICBA, BRIDGE AUDIO		X	X	X	X	X	X	X	X
U8	DM-56	MODULE, ICDA, DIGITAL/ANALOG		X	X	X	X	X	X	X	X
U9	DM-105	MODULE, ICNB/AP, NOISE BLANKER/AUDIO PROCESSOR		X	X	X	X	X	X	X	X
U10	DM-33	MODULE, ICVR, VOLTAGE REG.		X	X	X	X	X	X	X	X
COILS & TRANSFORMERS											
CF-1	1223695	FM I.F., CERAMIC (2/PKG.)		X	X	X	X	X	X	X	X
CF-2	1223695	FM I.F., CERAMIC (2/PKG.)		X	X	X	X	X	X	X	X
L1	16002369	COIL, AM ANTENNA, RF OSC.		X	X	X	X	X	X	X	X
L1	7312805	COIL, AM ANTENNA, RF OSC.		X	X	X	X	X	X	X	X
L2	16009160	CHOKE, A + LINE FILTER		X	X	X	X	X	X	X	X
L3	7934553	CHOKE, RF		X	X	X	X	X	X	X	X
L4	9348413	COIL, FM ANTENNA		X	X	X	X	X	X	X	X
L5	9348414	COIL, FM RF		X	X	X	X	X	X	X	X
L6	7897878	COIL, FM OSCILLATOR		X	X	X	X	X	X	X	X
L7	7934553	CHOKE, FM RF		X	X	X	X	X	X	X	X
L8	7898999	CHOKE, DUAL		X	X	X	X	X	X	X	X
L9	7898999	CHOKE, DUAL		X	X	X	X	X	X	X	X
L10	7255738	CHOKE, ANTENNA		X	X	X	X	X	X	X	X
T1	9346544	TRANSFORMER, MIXER		X	X	X	X	X	X	X	X
T4	9346543	COIL, PHASE		X	X	X	X	X	X	X	X
T5	7898449	AM 1ST I.F.		X	X	X	X	X	X	X	X
T6	9349372	AM 2ND I.F.		X	X	X	X	X	X	X	X
CAPACITORS & TRIMMERS											
C3	9348419	TRIMMER, FM OSCILLATOR		X	X	X	X	X	X	X	X
C4	16001446	TRIMMER, AM ANTENNA		X	X	X	X	X	X	X	X
C4	16001447	TRIMMER, AM ANTENNA		X	X	X	X	X	X	X	X
C5	9346601	TRIMMER, AM RF		X	X	X	X	X	X	X	X
C5	7936524	TRIMMER, AM RF		X	X	X	X	X	X	X	X
C6	7311368	TRIMMER, AM OSCILLATOR		X	X	X	X	X	X	X	X
C6	7282165	TRIMMER, AM OSCILLATOR		X	X	X	X	X	X	X	X
C7	7936628	250 MFD., 16V, ELECTROLYTIC		X	X	X	X	X	X	X	X
C8	7296348	3 MFD., 10V, ELECTROLYTIC		X	X	X	X	X	X	X	X
C11	7298555	40 MFD., 6V, TANTALUM		X	X	X	X	X	X	X	X
C12	9340498	210 PF, 100V, CERAMIC, N750		X	X	X	X	X	X	X	X
C14	7896854	270 PF, N220, DISC CERAMIC		X	X	X	X	X	X	X	X
C24	7936359	3 MFD, 35V, TANTALUM		X	X	X	X	X	X	X	X
C28	7296348	3 MFD, 10V, TANTALUM		X	X	X	X	X	X	X	X
C30	9341540	4.7 PF, 100V, TUBE CERAMIC		X	X	X	X	X	X	X	X
C31	7897766	12 PF, 100V, N330 TUBULAR CERAMIC		X	X	X	X	X	X	X	X
C32	7897740	18 PF, 100V, NPO TUBULAR CERAMIC		X	X	X	X	X	X	X	X
C33	9341429	3.3 PF, 100V, N330 TUBULAR CERAMIC		X	X	X	X	X	X	X	X

U1
DM-32
ICAM

U2
DM-37
ICBM

U3
DM-51
ICQD

U4
DM-44
ICSD

'I2 ON'
↓
.96



**U5 & U6
DM-98
ICBA**

**U8
DM-56
ICDA**

U9
DM-105
ICNB/AP

**U10
DM-33
ICVR**

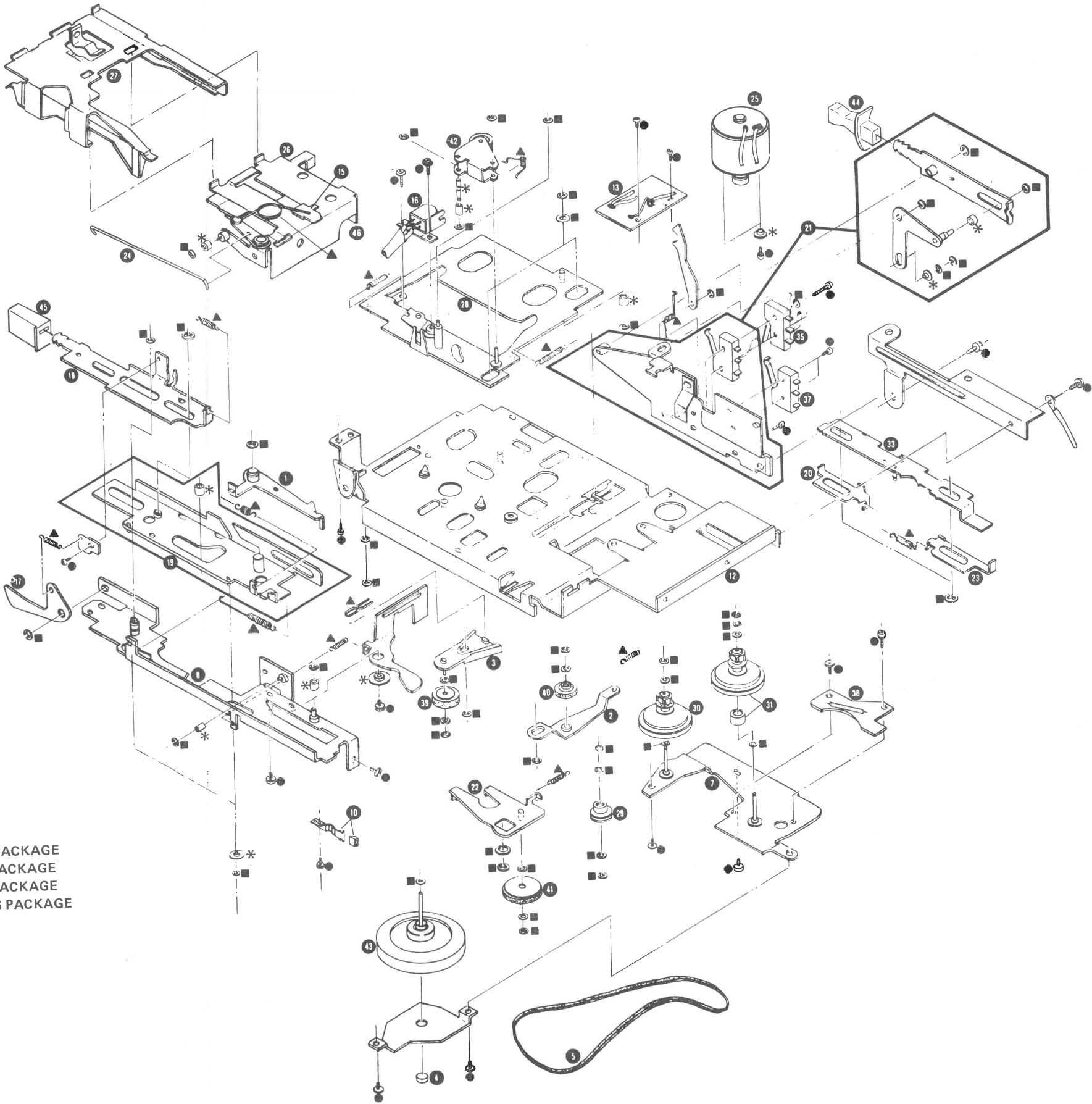
Q2
DS-105
RF AMP

**Q3
DS-94
FM OSC**

**Q7
DS-66
BUFFER**

Illus. No.	Service No.	Description
CASSETTE DECK		
1	1224550	ARM, EJECT LOCK
2	1224551	ARM, IDLER
3	1224552	ARM, IDLER FF/REW
4	1224553	BEARING, CAPSTAN
5	1224554	BELT
7	1224556	BRACKET, REEL MOUNTING
8	1224557	BRACKET, EJECT
10	1224559	BRAKE, PKG.
*11	1224560	BUSHING PKG.
12	1224561	CHASSIS ASM.
13	1224562	CIRCUIT BRD. ASM., AUTO STOP
14	1224563	E-RING & WASHER PKG.
15	1224564	GUIDE, CASSETTE
16	1224695	HEAD ASSEMBLY
17	1224566	LEVER, DOOR
18	1224567	LEVER, EJECT
19	1225129	LEVER, EJECT ASM.
20	1224569	LEVER, FF
21	1225119	LEVER PKG., FF/REW
22	1224571	LEVER, IDLER
23	1224572	LEVER, REW
24	1224573	LINK, EJECT
25	1224574	MOTOR
26	1224575	PLATE, CASSETTE GUIDE
27	1224576	PLATE ASM., CASSETTE SUPPORT
28	1224577	PLATE ASM., HEAD MOUNTING
29	1224578	PULLY, IDLER
30	1224579	REEL, FEED
31	1224580	REEL PKG., TAKE UP
32	1224581	SCREW PKG.
33	1224582	SLIDE, ARM FF/REW
34	1224583	SPRING PKG.
35	1224584	SWITCH, AUTO STOP
37	1224586	SWITCH, RADIO/TAPE
38	1224587	SWITCH, REED & BOARD ASM.
39	1224588	WHEEL, IDLER FF/REW
40	1224589	WHEEL, IDLER FF/REW
41	1224590	WHEEL, IDLER PLAY
42	1224653	PINCH, ROLLER ASM.
43	1224654	FLYWHEEL
44	16006945	BUTTON, FF/REW-CHROME
44	16008103	BUTTON, FF/REW-BLACK (CORVETTE ONLY)
45	16006944	BUTTON, EJECT-CHROME
45	16008104	BUTTON, EJECT-BLACK (CORVETTE ONLY)
46	1224696	CABLE, HEAD
P9	16010145	CONNECTOR & LEAD ASM., 2-WIRE, TAPE INDICATOR
P8	16001132	CONNECTOR, 10-PIN
P4	16001133	CONNECTOR, 4-PIN
CASSETTE ELECTRICAL		
U11	DM-154	IC PRE-AMP
D1	DS-97	AUDIO MUTE
D2	DS-97	AUDIO MUTE
C3	9348339	15 MFD., 3V, TANTALUM
C4	7936361	15 MFD., 6V, TANTALUM
C9	9345107	500 MFD. 16V, LYTIC
J4	16001248	CONNECTOR & LEAD ASM., 6-PIN (RADIO TO TAPE DECK)
P4	16012614	CONNECTOR, 6-PIN
XL3	16008068	SOCKET & LEAD ASM., TAPE IND.
I1	DS-450	LED, TAPE, GREEN

- ▲ SPRING PACKAGE
● SCREW PACKAGE
■ E-RING PACKAGE
* BUSHING PACKAGE



Illus. No.	Service No.	Description
SEMICONDUCTORS		
D10	DS-159	DIODE, ZENER 7 VOLT
D11	DS-97	DIODE, TACH RECTIFIER
D12	DS-79	DIODE, SPIKE SUPPRESSION
Q19	DS-83	TRANSISTOR, MOTOR PRE-AMP
Q20	DS-66	TRANSISTOR, MOTOR AMP
Q21	DS-513	TRANSISTOR, MOTOR CONTROL
U11	DM-50	MODULE, ICPA, TAPE PRE-AMP
CAPACITORS		
C184	7895005	10 MFD., 10 VOLT TANTALUM
C186	7895005	10 MFD., 10 VOLT TANTALUM
C187	9345021	250 MFD., 16 VOLT ELECTROLYTIC
C191	7296348	3 MFD., 10 VOLT TANTALUM
C201	7296348	3 MFD., 10 VOLT TANTALUM
MISCELLANEOUS		
J4	7897261	CONNECTOR, 6/PIN (ON TAPE BOARD)
P4	16001697	CONNECTOR & LEAD ASM. 6/PIN (RADIO TO TAPE DECK)
R191	16005034	5K MOTOR SPEED POT
TAPE DECK		
50	16001098	ACTUATOR, PB OPERATED
51	16001581	ACTUATOR, SWITCH
52	16000586	ARM, CARTRIDGE LOCK
54	1223664	BELT, MOTOR DRIVE
55	1224233	BEARING ASM., CAPSTAN HOUSING

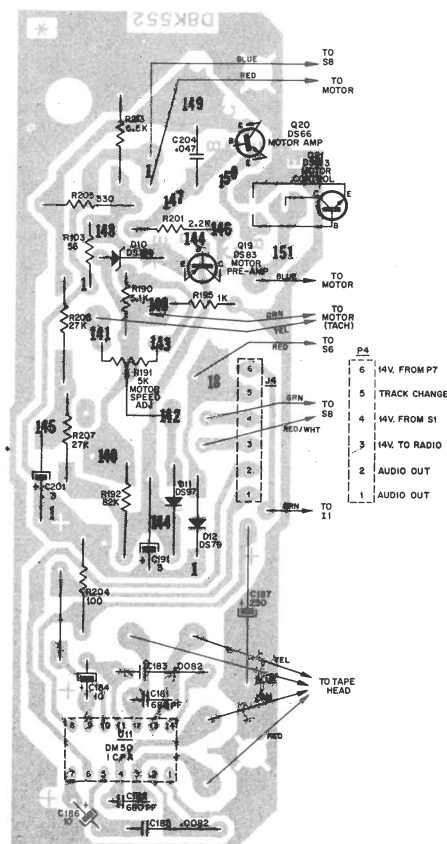
Illus. No.	Service No.	Description
TAPE DECK (cont'd.)		
56	16002831	BEARING, CAPSTAN THRUST
58	9347899	CAM, TRACK CHANGE
59	16002836	FLYWHEEL & CAPSTAN ASM.
60	16006297	GUIDE ASM., TAPE
61	9347891	GUIDE PLATE, CARTRIDGE (PLASTIC)
62	16003726	HEAD & BRACKET ASM., INCL. AZIMUTH ADJ.
64		LAMP, DIAL, NO. 1893 (I1)
65	16002826	MOTOR
67	7896659	PINION, WHEEL DRIVE
68	16001577	PLUNGER, TRACK CHANGE
69	16001578	RATCHET ASM.
71	7896658	RETAINER, PINION
73	16010175	SOLENOID ASM., TRACK CHANGE
75	9347892	SPRING, CAM
76	7898373	SPRING, CARTRIDGE LOCK ARM
77	16001576	SPRING, PLUNGER
79	16004797	STRIPPER, TAPE
80	16000668	SWITCH & PLATE PKG. (S8)
81	7899348	SWITCH, RADIO/TAPE
82	9347900	WHEEL, HEAD HEIGHT ADJ.
83	1223171	INSULATOR PKG. (DS-513)
84	*16006290	PLATE, CARTRIDGE

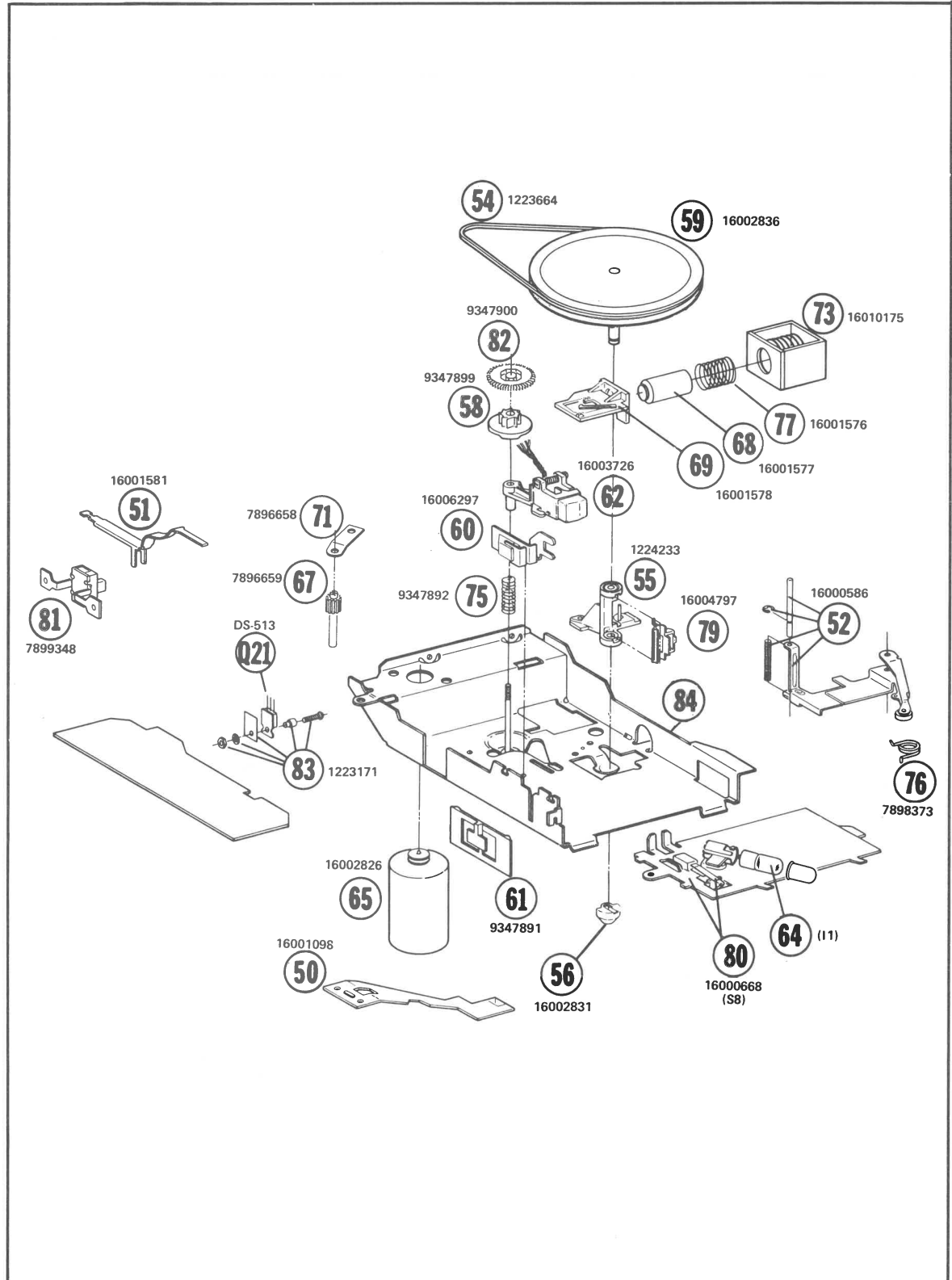
* PARTS FIRST USED IN 1982

SERVICE AIDS

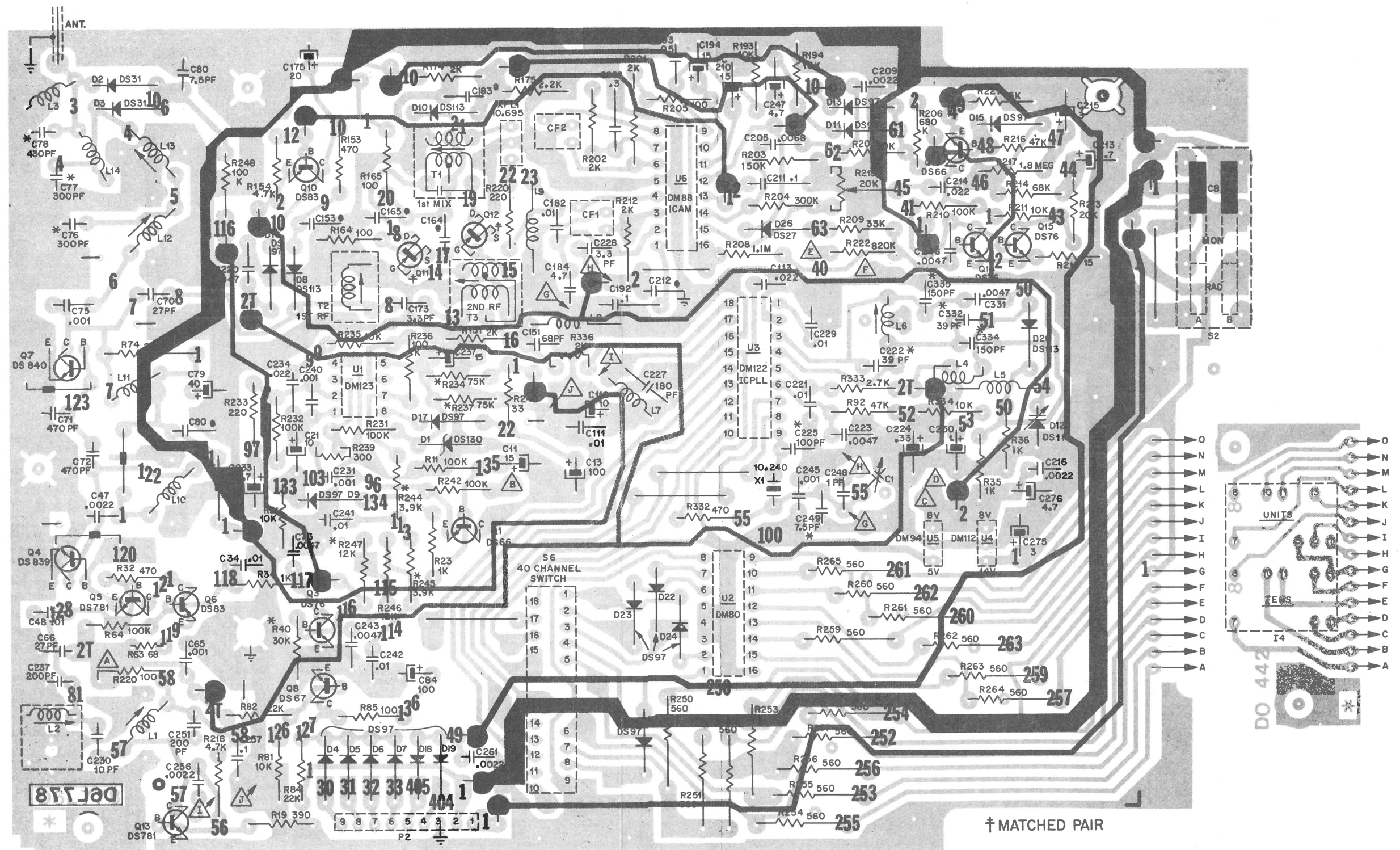
DM-50
ICPA

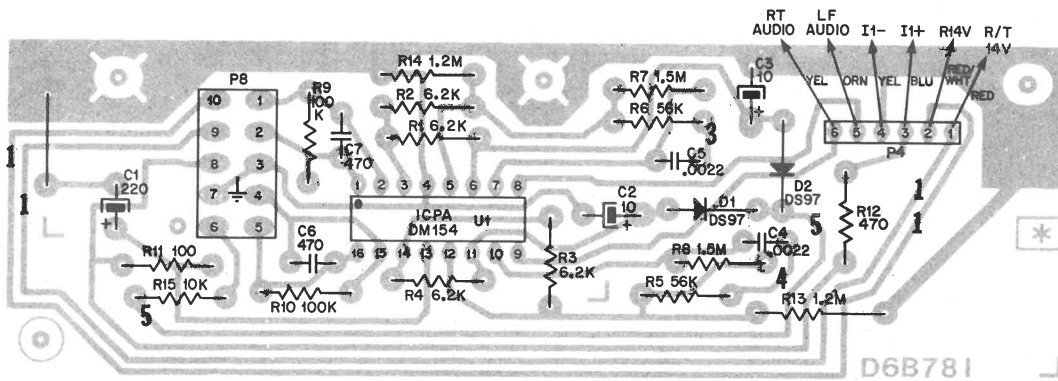
Pin	Voltages
1	0V
2	0V
3	.65V
4	.65V
5	1.8V
6	1.1V
7	3.0V
8	13.1V
9	3.2V
10	1.3V
11	2.0V
12	.65V
13	.65V
14	0V



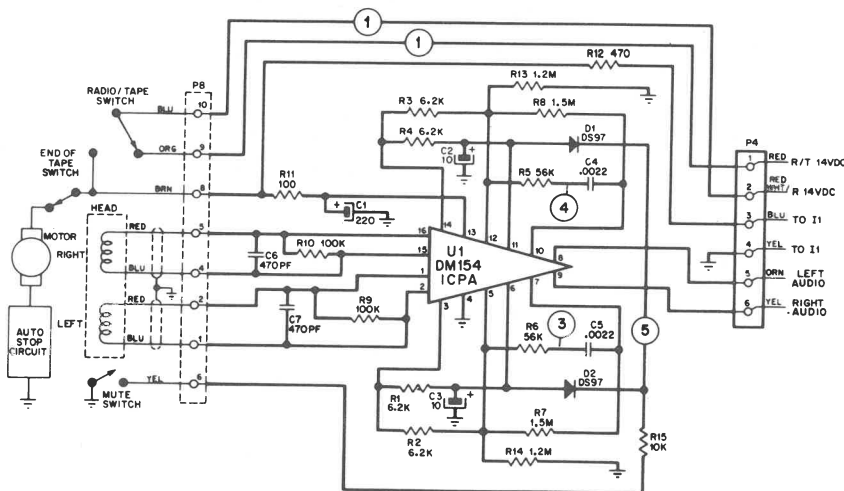


DELCO 1982 SERIES





SCHEMATIC



U1
DM-50
ICPA

Pin	Voltages
1	0V
2	0V
3	.65V
4	.65V
5	1.8V
6	1.1V
7	3.0V
8	13.1V
9	3.2V
10	1.3V
11	2.0V
12	.65V
13	.65V
14	0V

ALL CAPACITORS ARE SHOWN IN MFD
AND ARE 75 VOLT OR HIGHER EXCEPT
ELECTROLYTICS AND THOSE NOTED BY
AN *

NOTICE
GROUND PROBE BEFORE MAKING MEASUREMENTS ON IC. ALSO, DO NOT SHORT IC PINS TOGETHER OR TO GROUND OR IC MAY BE DESTROYED.



ALSO NOTED:
RESISTORS ARE SHOWN IN MFD UNLESS NOTED OTHERWISE. CAPACITORS ARE SHOWN IN PFD UNLESS NOTED OTHERWISE. VOLTAGES ARE THOSE NOTED BY THE CIRCUIT.

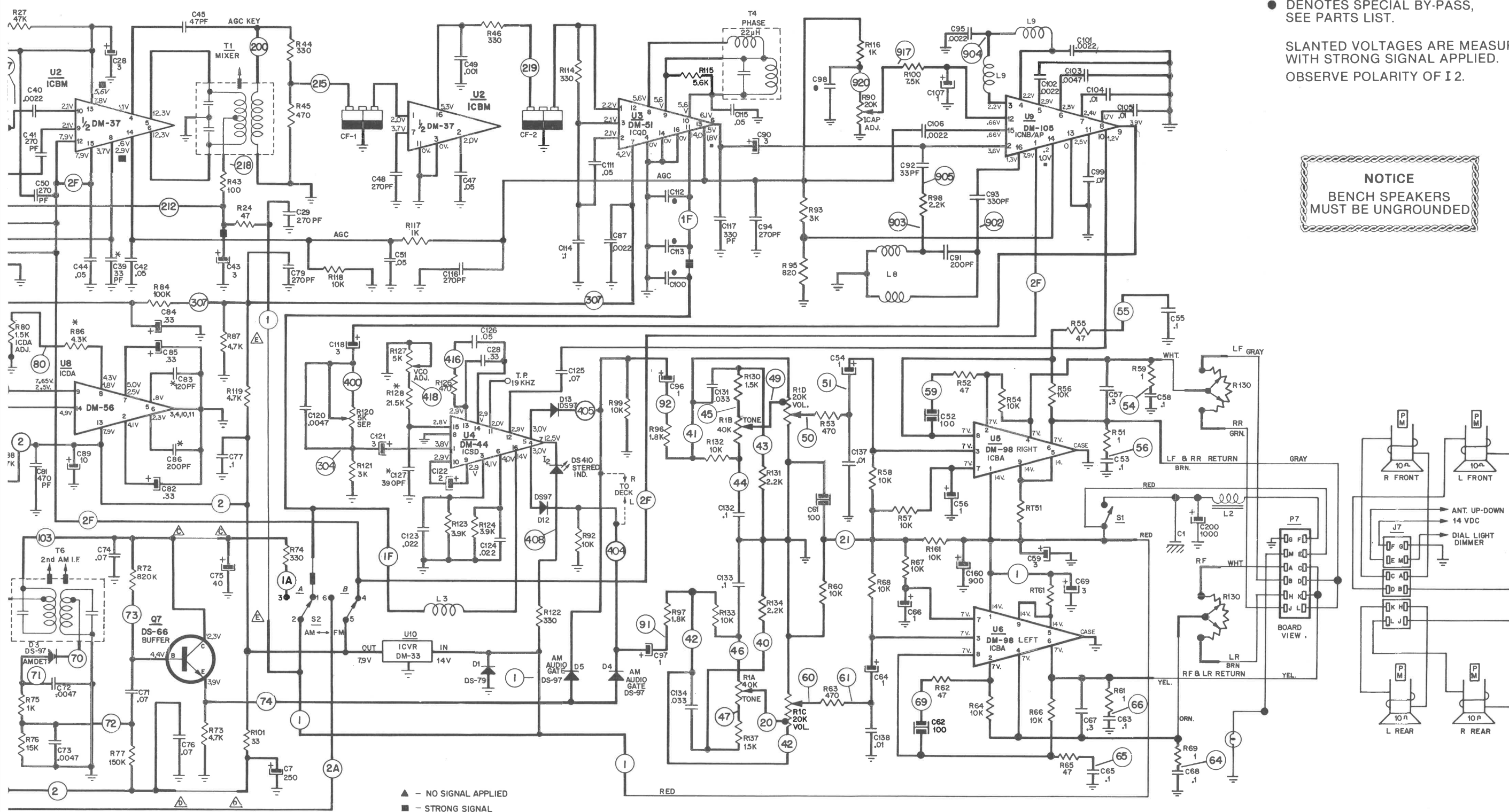
VOLTAGES MEASURED WITH A VTVM NO SIGNAL AND 14 VOLTS APPLIED TO RADIO.

NOTICE
GROUND PROBE BEFORE MAKING MEASUREMENTS ON IC. ALSO, DO NOT SHORT IC PINS TOGETHER OR TO GROUND OR IC MAY BE DESTROYED.

- * INDICATES SPECIAL CAPACITOR OR RESISTOR, SEE PARTS LIST.
- DENOTES SPECIAL BY-PASS, SEE PARTS LIST.

SLANTED VOLTAGES ARE MEASURED WITH STRONG SIGNAL APPLIED. OBSERVE POLARITY OF I 2.

NOTICE
BENCH SPEAKERS MUST BE UNGROUNDED



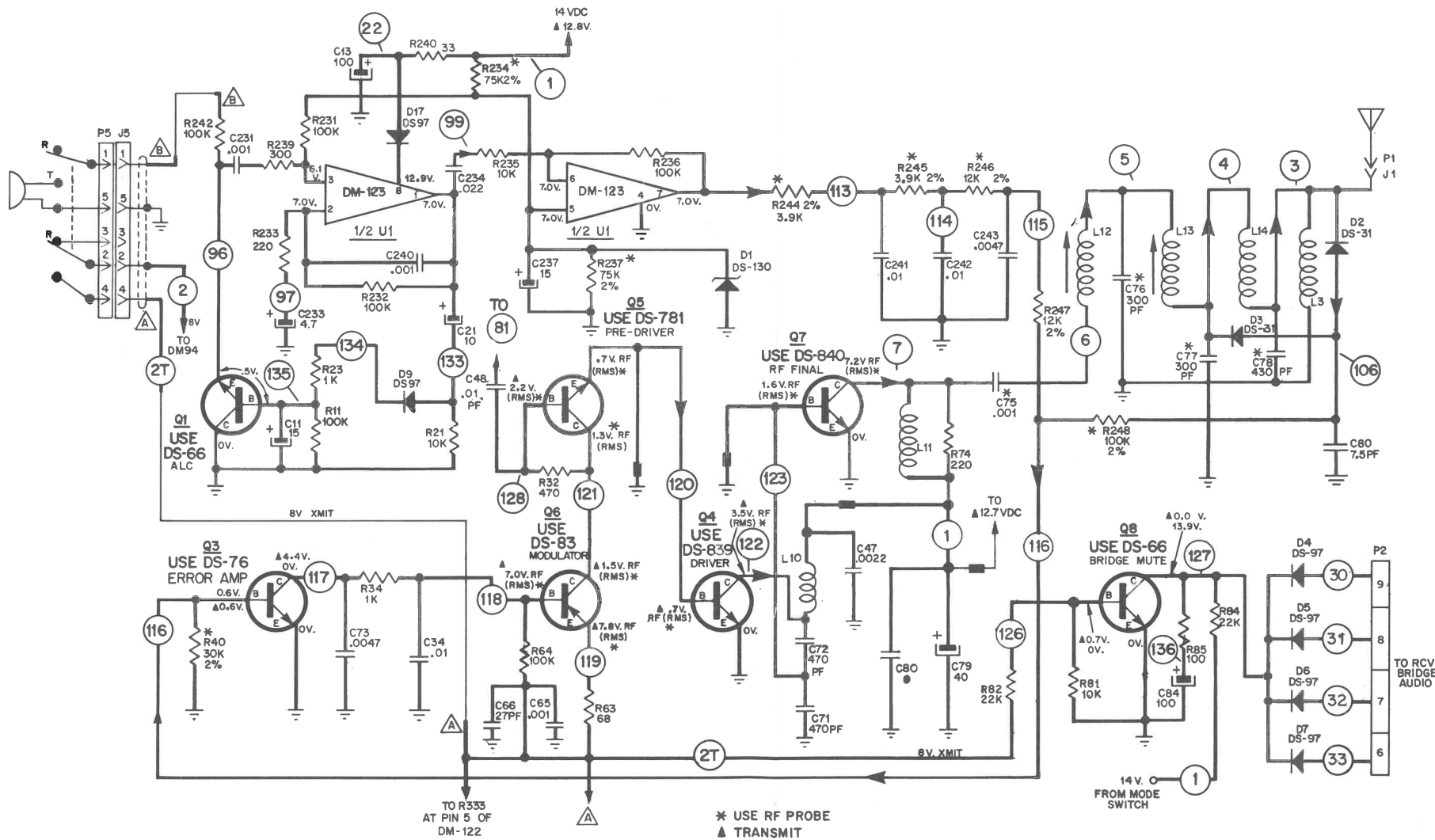
▲ - NO SIGNAL APPLIED
■ - STRONG SIGNAL

VOLTAGES MEASURED WITH A VTVM NO SIGNAL AND 14 VOLTS APPLIED TO RADIO.

UNLESS OTHERWISE NOTED:
ALL CAPACITORS ARE SHOWN IN MFD AND ARE 75 VOLT OR HIGHER EXCEPT ELECTROLYTICS AND THOSE NOTED BY AN *

NOTICE
GROUND PROBE BEFORE MAKING MEASUREMENTS ON IC. ALSO, DO NOT SHORT IC PINS TOGETHER OR TO GROUND OR IC MAY BE DESTROYED.

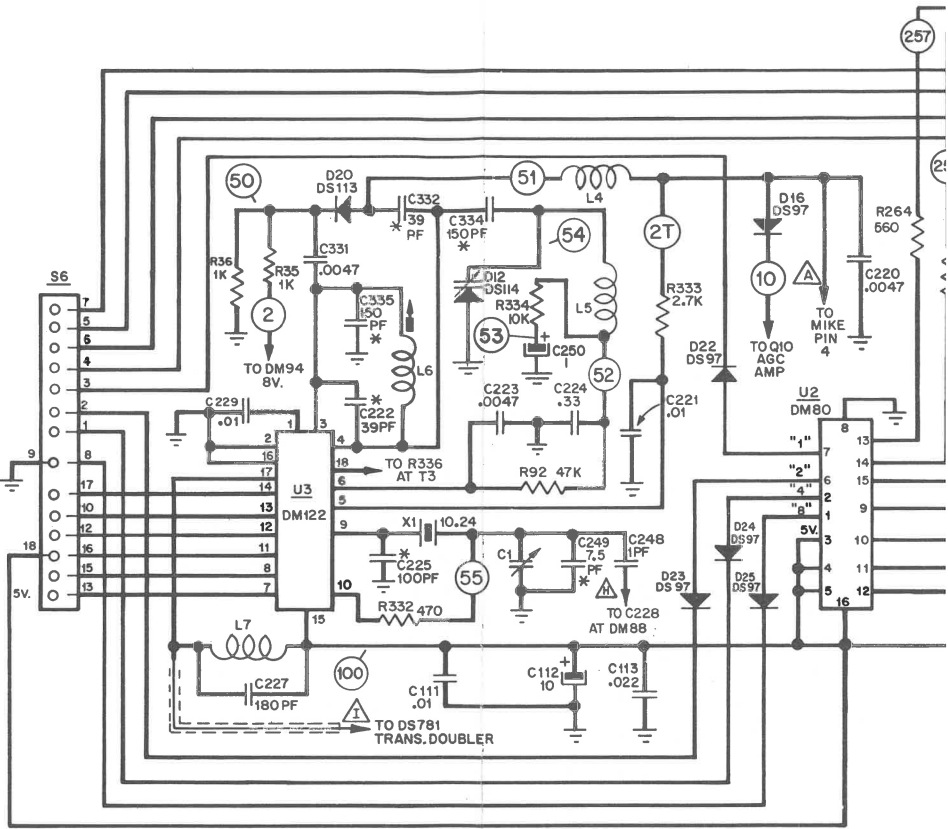
* INDICATES SPECIAL CAPACITOR OR RESISTOR, SEE PARTS LIST.



TRANSMITTER SCHEMATIC

Δ	COLOR
A	BLUE
B	WHITE
C	RED
D	GREEN
E	ORANGE
F	BLACK
G	COAX-GND
H	COAX
I	COAX
J	COAX-GND

U1 DM-123			
PIN	XMIT	RECEIVE	
1	6.9V	6.4V	
2	6.9V	6.4V	
3	6.8V	6.3V	
4	0V	0V	
5	6.9V	6.4V	
6	6.9V	6.4V	
7	6.9V	6.4V	
8	12.9V	11.9V	



DM-122 PIN VOLTAGES

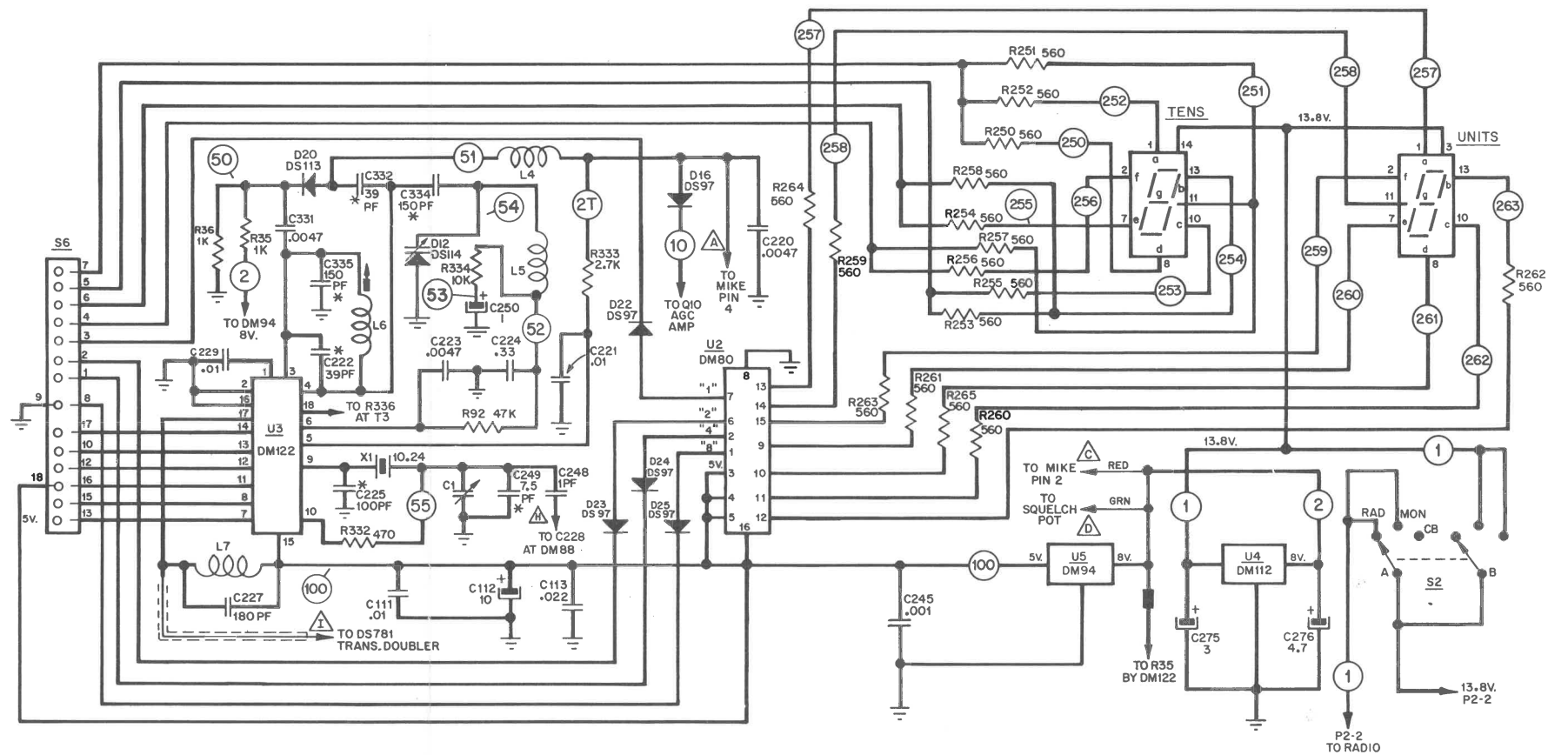
CHAN. NO.	PIN 6 VOLTS	7	8	11	12	13	14	CHAN. NO.	PIN 6 VOLTS	7	8
1	2.14	LO	LO	LO	LO	LO	LO	21	3.23	LO	HI
2	2.20	LO	LO	LO	LO	LO	LO	22	3.28	LO	HI
3	2.26	LO	LO	LO	LO	LO	LO	23	3.43	LO	HI
4	2.33	LO	LO	LO	LO	LO	LO	24	3.33	LO	HI
5	2.38	LO	LO	LO	LO	LO	LO	25	3.38	LO	HI
6	2.42	LO	LO	LO	LO	LO	LO	26	3.48	LO	HI
7	2.46	LO	LO	LO	LO	LO	LO	27	3.53	LO	HI
8	2.54	LO	LO	LO	LO	LO	LO	28	3.58	LO	LO
9	2.59	LO	LO	LO	LO	LO	LO	29	3.63	LO	LO
10	2.63	LO	LO	LO	LO	LO	LO	30	3.69	LO	LO
11	2.67	LO	LO	LO	LO	LO	LO	31	3.74	LO	LO
12	2.75	LO	LO	LO	LO	LO	LO	32	3.79	LO	LO
13	2.79	LO	LO	LO	LO	LO	LO	33	3.85	LO	LO
14	2.83	LO	LO	LO	LO	LO	LO	34	3.90	LO	LO
15	2.87	LO	LO	LO	LO	LO	LO	35	3.96	LO	LO
16	2.96	LO	LO	LO	LO	LO	LO	36	4.02	LO	LO
17	3.00	LO	LO	LO	LO	LO	LO	37	4.07	LO	LO
18	3.05	LO	LO	LO	LO	LO	LO	38	4.14	LO	LO
19	3.09	LO	LO	LO	LO	LO	LO	39	4.20	LO	LO
20	3.19	LO	LO	LO	LO	LO	LO	40	4.26	LO	LO

CAPACITORS ARE SHOWN IN MFD
) ARE 75 VOLT OR HIGHER EXCEPT
 CTROLYTICS AND THOSE NOTED BY
 K

GROUND PROBE BEFORE MAKING MEASUREMENTS ON IC. ALSO, DO NOT SHORT IC PINS TOGETHER OR TO GROUND OR IC MAY BE DESTROYED.



U1 <u>DM-123</u>		
PIN	XMIT	RECEIVE
1	6.9V	6.4V
2	6.9V	6.4V
3	6.8V	6.3V
4	0V	0V
5	6.9V	6.4V
6	6.9V	6.4V
7	6.9V	6.4V
8	12.9V	11.9V



CHAN. NO.	PIN 6 VOLTS	7	8	11	12	13	14	CHAN. NO.	PIN 6 VOLTS	7	8	12	13	14	15
1	2.14	LO	LO	LO	LO	LO	LO	21	3.23	LO	HI	HI	LO	LO	HI
2	2.20	LO	LO	LO	LO	LO	HI	22	3.28	LO	HI	HI	LO	HI	LO
3	2.26	LO	LO	LO	LO	HI	LO	23	3.43	LO	HI	HI	HI	LO	HI
4	2.33	LO	LO	LO	HI	LO	LO	24	3.33	LO	HI	HI	LO	HI	HI
5	2.38	LO	LO	LO	LO	LO	HI	25	3.38	LO	HI	HI	HI	LO	LO
6	2.42	LO	LO	LO	HI	HI	LO	26	3.48	LO	HI	HI	HI	HI	LO
7	2.46	LO	LO	LO	HI	HI	HI	27	3.53	LO	HI	HI	HI	HI	HI
8	2.54	LO	LO	HI	LO	LO	HI	28	3.58	HI	LO	LO	LO	LO	LO
9	2.59	LO	LO	HI	LO	HI	LO	29	3.63	HI	LO	LO	LO	LO	HI
10	2.63	LO	LO	HI	LO	HI	HI	30	3.69	HI	LO	LO	LO	HI	LO
11	2.67	LO	LO	HI	HI	LO	LO	31	3.74	HI	LO	LO	LO	HI	HI
12	2.75	LO	LO	LO	HI	HI	LO	32	3.79	HI	LO	LO	HI	LO	LO
13	2.79	LO	LO	HI	HI	HI	HI	33	3.85	HI	LO	LO	HI	LO	HI
14	2.83	LO	HI	LO	LO	LO	LO	34	3.90	HI	LO	LO	HI	HI	LO
15	2.87	LO	HI	LO	LO	LO	HI	35	3.96	HI	LO	LO	HI	HI	HI
16	2.96	LO	HI	LO	HI	HI	HI	36	4.02	HI	LO	HI	LO	LO	LO
17	3.00	LO	HI	LO	HI	LO	LO	37	4.07	HI	LO	HI	LO	LO	HI
18	3.05	LO	HI	LO	HI	LO	HI	38	4.14	HI	LO	HI	LO	HI	LO
19	3.09	LO	HI	HI	LO	LO	LO	39	4.20	HI	LO	HI	LO	HI	HI
20	3.19	LO	HI	HI	LO	LO	LO	40	4.26	HI	LO	HI	HI	LO	HI

PIN	XMIT	RECEIVE
1		5.5V
2		0V
3		2.6V
4		2.6V
5	6.5V	0V
6		2—3.8V
7		
8		
9		2.6V
10		1.8V
11		
12		
13		
14	SEE TRUTH TABLE	
15		
16		
17		
18		2.6V

DELCO 1982 SERIES

Illus. No.	Service No.	Description	MODEL NO							
			20BFM1	21YFM1	20BFMT1	21GFMT1	20BFMC1	20BFCT1	21GFCT1	21GFM1

CAPACITORS (cont'd.)

C36	7897765	4.7 PF, 100V, N150, TUBULAR CERAMIC	X	X	X	X	X	X	X	X
C39	7286878	33PF, 100V, NPO	X	X	X	X	X	X	X	X
C43	7936348	3 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C52	9349947	100 MFD, NON-POLAR	X	X	X	X	X	X	X	X
C54	7936365	1 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C56	7936365	1 MFD., 10V, TANTALUM	X	X	X	X	X	X	X	X
C59	7936359	3 MFD, 35V, TANTALUM	X	X	X	X	X	X	X	X
C61	9349947	100 MFD, 16V, NON-POLAR	X	X	X	X	X	X	X	X
C62	9349947	100 MFD, 16V, NON-POLAR	X	X	X	X	X	X	X	X
C64	7930782	1 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C66	7936365	1 MFD., 10V, TANTALUM	X	X	X	X	X	X	X	X
C69	7936359	3 MFD, 35V, TANTALUM	X	X	X	X	X	X	X	X
C75	9340269	40 MFD, 16V, NON-POLAR	X	X	X	X	X	X	X	X
C82	7936748	.33 MFD, 35V, TANTALUM	X	X	X	X	X	X	X	X
C83	7898320	120PF, 100V, N080	X	X	X	X	X	X	X	X
C84	7936748	.33 MFD., 35V, TANTALUM	X	X	X	X	X	X	X	X
C85	7936748	.33 MFD, 35V, TANTALUM	X	X	X	X	X	X	X	X
C86	7296137	200 PF, 100V, N750	X	X	X	X	X	X	X	X
C89	7936360	10 MFD, 16V, TANTALUM	X	X	X	X	X	X	X	X
C90	7936363	3 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C91	7898162	200PF, 100V, N750	X	X	X	X	X	X	X	X
C92	7286878	33 PF, 100V, NPO	X	X	X	X	X	X	X	X
C96	7936365	1 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C97	7936365	1 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C98	7897655	FM BY-PASS	X	X	X	X	X	X	X	X
C100	7895980	FM BY-PASS	X	X	X	X	X	X	X	X
C107	7936365	1 MFD., 10V, TANTALUM	X	X	X	X	X	X	X	X
C112	7897655	FM BY-PASS	X	X	X	X	X	X	X	X
C113	7896282	FM BY-PASS	X	X	X	X	X	X	X	X
C117	7314193	330 PF, 100V, N220 CERAMIC	X	X	X	X	X	X	X	X
C118	7936363	3 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C121	7936363	3 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C122	7313127	2 MFD, 10V, TANTALUM	X	X	X	X	X	X	X	X
C126	7936365	1 MFD., 10V, TANTALUM	X	X	X	X	X	X	X	X
C127	9341036	390 PF, 100V, 2% N220	X	X	X	X	X	X	X	X
C128	16003529	.33 MFD, 35V	X	X	X	X	X	X	X	X
C160	7898283	900 MFD, 16V	X	X	X	X	X	X	X	X
C183	7898320	120 PF, 100V, N80	X	X	X	X	X	X	X	X
C200	9341267	1000 MFD, 10V, ELECTROLYTIC	X	X	X	X	X	X	X	X

CONTROLS & RESISTORS

R1	16011486	CONTROL; VOLUME, TONE & SWITCH	X	X			X	X	X	X
R1	16011488	CONTROL; VOLUME, TONE & SWITCH	X	X	X	X	X	X	X	X
R80	7899466	CONTROL; ICDA CAL 1.5K	X	X	X	X	X	X	X	X
R86	7897739	RESISTOR, 4.3K, 2%	X	X	X	X	X	X	X	X
R90	9349022	CONTROL; PROCESSOR ADJ., 20K	X	X	X	X	X	X	X	X
R120	9349445	CONTROL, SEPARATION, 5K	X	X	X	X	X	X	X	X
R127	9349445	CONTROL, VCO ADJ., 5K	X	X	X	X	X	X	X	X
R128	9341039	RESISTOR, 21.5K	X	X	X	X	X	X	X	X
R130	7899383	CONTROL, FADER	X	X	X	X	X	X	X	X

TUNER

1	16006230	ARM, POINTER			X	X				
1	16006241	ARM, POINTER					X			
1	16008061	ARM, POINTER						X	X	
1	16006232	ARM, POINTER	X	X						X
3	16006019	BACKPLATE, POINTER						X	X	
3	9349479	BACKPLATE, POINTER	X	X						X
4	7896692	BEARING, DRIVE SHAFT	X	X	X	X	X	X	X	X
5	16004405	BELL CRANK	X	X	X	X	X	X	X	X
5	16008059	BELL CRANK	X	X	X	X	X	X	X	X
6	16002369	BOARD COILS & HOUSING AM (L1)	X	X	X	X	X	X	X	X
7	9349357	BRACKET, LED SOCKET MTNG.	X	X	X	X	X			
8	16004401	BRACKET, POINTER ARM GUIDE	X	X	X	X	X			X
8	16006947	BACKPLATE, POINTER ARM GUIDE						X	X	

Illus. No.	Service No.	Description	MODEL No.							
			20BFM1	21YFM1	20BFMT1	21GFM1	20BFMC1	20BFCT1	21GCT1	21GFM1
TUNER (cont'd.)										
11	16000651	CLUTCH, INCLUDES TREADLE ASM.	X	X	X	X	X	X	X	X
12	7288147	CORE, TUNING AM	X	X	X	X	X	X	X	X
13	7897881	CORE, TUNING FM OSC.	X	X	X	X	X	X	X	X
14	9347857	DRIVE SHAFT ASM., (INCL. FLEX DRIVE SHAFT)	X	X	X	X	X	X	X	X
15	1223052	'E' RINGS (20/PKG.), TREADLE & BELLCRANK	X	X	X	X	X	X	X	X
16	1223109	'E' RINGS (20/PKG.), SHIFTER PLATE	X	X	X	X	X	X	X	X
17	7899291	ESCUTCHEON ASM., (INCL. DIAL FACE)		X		X	X	X	X	X
17	16002967	ESCUTCHEON ASM., (INCL. DIAL FACE)	X							X
17	16008062	ESCUTCHEON ASM., (INCL. DIAL FACE)					X		X	
17	16005616	ESCUTCHEON ASM., (INCL. DIAL FACE)					X			
17	7897819	ESCUTCHEON ASM., (INCL. DIAL FACE)			X	X				
18	1223108	FINGER BAR PACKAGE	X	X	X	X	X	X	X	X
19	7898946	LINK, POINTER ADJ.	X	X	X	X	X	X	X	X
20	16001926	LINK, SWITCH	X	X	X	X	X	X	X	X
21	9349229	LINK, TREADLE TO CORE BAR	X	X	X	X	X	X	X	X
22	7279805	NUT, DRIVE SHAFT	X	X	X	X	X	X	X	X
23	9347929	PLATE 'T' SHUTTLE GUIDE	X	X	X	X	X	X	X	X
24	7898052	PLATE 'T' SHUTTLE SHIFTER	X	X	X	X	X	X	X	X
24	16006938	PLATE 'T' SHUTTLE SHIFTER						X	X	
26	7897816	PUSHBUTTON BLACK		X						
26	9349753	PUSHBUTTON CHROME	X		X		X	X		X
27	7898372	PUSHBUTTON, EJECT			X					X
27	16020108	PUSHBUTTON, CHROME				X			X	X
29	1221501	SET SCREW & NUT PKG. CLUTCH	X	X	X	X	X	X	X	X
32	9348335	SLIDE ASM., PB	X	X	X	X	X	X	X	
32	9348282	SLIDE ASM., PB								X
33	7313139	SLIDE ASM., TUNER	X	X	X	X	X	X	X	
34	16005333	SLIDE BAR BLACK							X	
34	16001986	SLIDE BAR AM/FM BLACK		X						
34	16001985	SLIDE BAR CHROME	X		X	X	X		X	X
34	16000450	SLIDE BAR CHROME						X		
35	7896691	SPRING, DRIVE SHAFT RETAINER	X	X	X	X	X	X	X	X
36	16004497	SPRING, POINTER TORSION	X	X	X	X	X			X
36	16009935	SPRING, POINTER TORSION						X	X	
37	7930814	SPRING, OVERCENTER	X	X	X	X	X	X	X	X
38	7302802	SPRING, SLIDE RETURN	X	X	X	X	X	X	X	X
39	16002266	SPRING, TREADLE	X	X	X	X	X	X	X	X
41	1223227	T-SHUTTLE (5/PKG.)	X	X	X	X	X	X	X	X
42	1221654	WORM PKG.,	X	X	X	X	X	X	X	X
MISCELLANEOUS										
43	1224225	BOARD, 12-PIN CONN.	X	X	X	X	X	X	X	X
	16000434	BRACKET SIDE MOUNT	X	X	X	X	X	X	X	X
44	1224144	BRACKET PKG., 12-PIN CONNECTOR	X	X	X	X	X	X	X	X
J4	16001697	CONNECTOR & LEAD ASM. 6-PIN			X	X				
J4	16001248	CONNECTOR & LEAD ASM. 4-PIN						X	X	
J2	7898521	CONNECTOR & LEAD ASM. 9-PIN					X			
J7	1224150	CONNECTOR PKG., BENCH HOOK-UP	X	X	X	X	X	X	X	X
P7	12004451	CONNECTOR ASM., INPUT 12-PIN	X	X	X	X	X	X	X	X
P8	16001132	CONNECTOR, 10 CAVITY						X	X	
P9	16010145	CONNECTOR ASM., 2-WIRE						X	X	
I1	DS-451	LED, TAPE, GREEN						X	X	
I2	DS-410	LED, STEREO, YELLOW	X	X	X	X	X	X	X	X
I3	16005999	LAMP, DIAL						X	X	
XL1	16004007	SOCKET, DIAL LIGHT	X	X			X			X
XL1	16006012	SOCKET, DIAL LIGHT ASM., INCL. BOARD						X	X	
XL1	16013035	SOCKET ASM., LED	X	X	X	X	X			X
XL2	7899306	SOCKET, DIAL LAMP						X	X	
XL3	16008068	SOCKET AND LEAD ASM., TAPE INDICATOR						X	X	
	9349334	SOCKET, DIAL LAMP						X	X	
	16005998	FILTER, DIAL LAMP, BLUE						X	X	
J1	16002642	SOCKET, ANTENNA	X	X	X	X	X	X	X	X
S2	7898278	SWITCH AM/FM	X	X	X	X	X	X	X	X

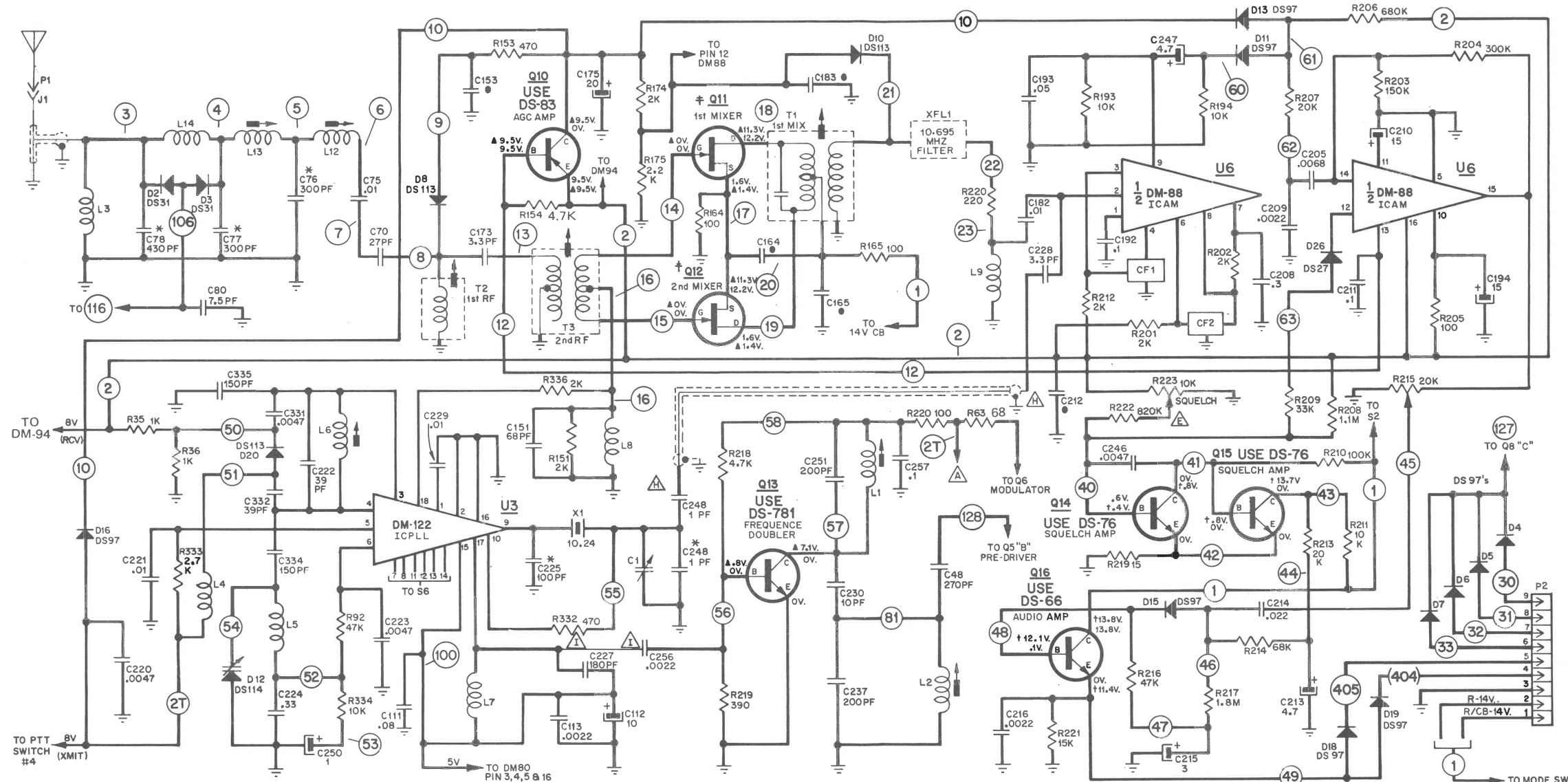
*PARTS FIRST USED IN 1982

PLL & RECEIVE

VOLTAGES MEASURED WITH A VTVM NO SIGNAL AND 14 VOLTS APPLIED TO RADIO.

UNLESS OTHERWISE NOTED:

ALL CAPACITORS ARE SHOWN IN MFD AND ARE 75 VOLT OR HIGHER EXCEPT ELECTROLYTICS AND THOSE NOTED BY AN *



† MATCHED PAIR † UNSQUELCHED VOLTAGES
▲ TRANSMIT

DM-80 TRUTH TABLE

INPUT					Pin	OUTPUT							
Decimal	6	2	1	7		13	12	11	10	9	15	14	
0	0	0	0	0		a	b	c	d	e	f	g	
1	0	0	0	0		0	0	0	0	0	0	1	
2	0	0	0	1		1	0	0	1	1	1	1	
3	0	0	0	1		0	0	1	0	0	1	0	
4	0	1	0	0		0	0	0	0	1	1	0	
5	0	1	0	1		1	0	0	1	1	0	0	
6	0	1	1	0		0	1	0	0	0	0	0	
7	0	1	1	1		0	0	0	1	1	1	1	
8	1	0	0	0		0	0	0	0	0	0	0	
9	1	0	0	1		0	0	0	1	1	0	0	

△	COLOR	
A	BLUE	TO MIKE
B	WHITE	
C	RED	
D	GREEN	TO SQ. POT
E	ORANGE	
F	BLACK	
G	COAX-GND	
H	COAX	
I	COAX	
J	COAX-GND	

DM-122 PIN VOLTAGES

CHAN. NO.	PIN 6 VOLTS	7	8	11	12	13	14	CHAN. NO.	PIN VOLTS
1	2.14	LO	LO	LO	LO	LO	LO	21	3.20
2	2.20	LO	LO	LO	LO	LO	HI	22	3.20
3	2.26	LO	LO	LO	LO	HI	LO	23	3.40
4	2.33	LO	LO	LO	HI	LO	LO	24	3.30
5	2.38	LO	LO	LO	HI	LO	HI	25	3.30
6	2.42	LO	LO	LO	HI	HI	LO	26	3.40
7	2.46	LO	LO	LO	HI	HI	HI	27	3.50
8	2.54	LO	LO	HI	LO	LO	HI	28	3.50
9	2.59	LO	LO	HI	LO	HI	LO	29	3.60
10	2.63	LO	LO	HI	LO	HI	HI	30	3.60
11	2.67	LO	LO	HI	LO	HI	LO	31	3.70
12	2.75	LO	LO	LO	HI	HI	LO	32	3.70
13	2.79	LO	LO	HI	HI	HI	HI	33	3.80
14	2.83	LO	HI	LO	LO	LO	LO	34	3.90
15	2.87	LO	HI	LO	LO	LO	HI	35	3.90
16	2.96	LO	HI	LO	LO	HI	HI	36	4.00
17	3.00	LO	HI	LO	LO	LO	LO	37	4.00
18	3.05	LO	HI	LO	LO	LO	HI	38	4.10
19	3.09	LO	HI	HI	LO	LO	LO	39	4.20
20	3.19	LO	HI	HI	LO	LO	LO	40	4.20

DISPLAY TRUTH TABLE (S6)

SWITCH TERMINAL										CHANNEL	1	2
CHANNEL	1	2	3	4	5	6	7	8	9			
1	0	0	1	1	1	1	1	0	0	21	0	0
2	0	0	0	1	1	1	1	1	0	22	0	0
3	0	0	1	1	1	1	1	1	0	23	0	0
4	1	0	0	1	1	1	1	0	0	24	1	0
5	1	0	1	1	1	1	1	0	0	25	1	0
6	1	0	0	1	1	1	1	1	0	26	1	0
7	1	0	1	1	1	1	1	1	0	27	1	0
8	0	1	0	1	1	1	1	0	0	28	0	1
9	0	1	1	1	1	1	1	0	0	29	0	1
10	0	0	0	1	0	1	1	0	0	30	0	0
11	0	0	1	1	0	1	1	0	0	31	0	0
12	0	0	0	1	0	1	1	1	0	32	0	0
13	0	0	1	1	0	1	1	1	0	33	0	0
14	1	0	0	1	0	1	1	0	0	34	1	0
15	1	0	1	1	0	1	1	0	0	35	1	0
16	1	0	0	1	0	1	1	1	0	36	1	0
17	1	0	1	1	0	1	1	1	0	37	1	0
18	0	1	0	1	0	1	1	0	0	38	0	1
19	0	1	1	1	0	1	1	0	0	39	0	1
20	0	0	0	1	1	0	0	0	0	40	0	0

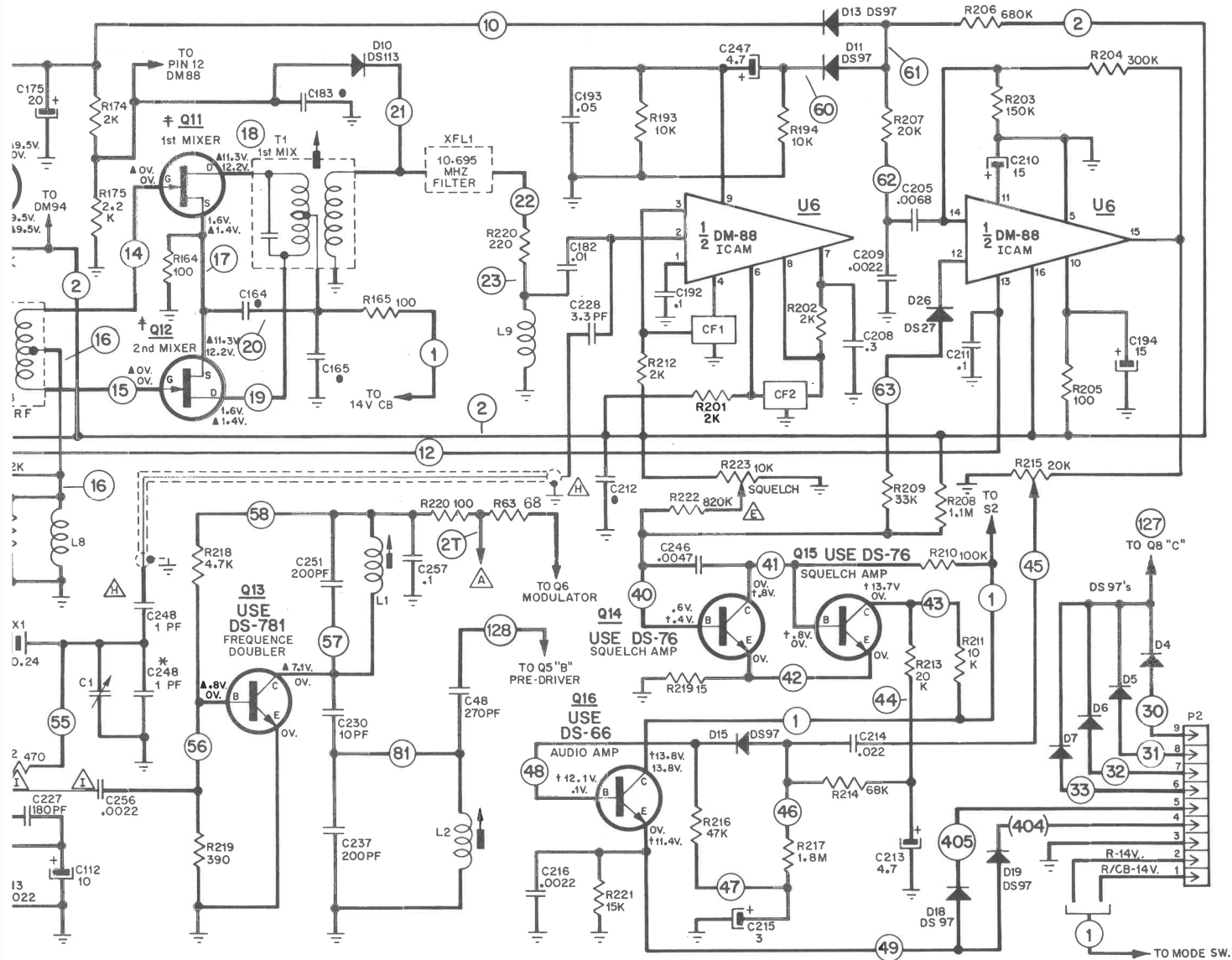
VOLTAGES MEASURED WITH A VTVM NO SIGNAL AND 14 VOLTS APPLIED TO RADIO.

UNLESS OTHERWISE NOTED:

ALL CAPACITORS ARE SHOWN IN MFD AND ARE 75 VOLT OR HIGHER EXCEPT ELECTROLYTICS AND THOSE NOTED BY AN *

NOTICE

GROUND PROBE BEFORE MAKING MEASUREMENTS ON IC. ALSO, DO NOT SHORT IC PINS TOGETHER OR TO GROUND OR IC MAY BE DESTROYED.



† MATCHED PAIR † UNSQUELCHED VOLTAGES
▲ TRANSMIT

DM-80 TRUTH TABLE

INPUT	OUTPUT			
	6	2	1	7
Decimal	6	2	1	7
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1

DM-122 PIN VOLTAGES

CHAN. NO.	PIN 6 VOLTS	7	8	11	12	13	14	CHAN. NO.	PIN 6 VOLTS	7	8	12	13	14	15
1	2.14	LO	LO	LO	LO	LO	LO	21	3.23	LO	HI	HI	LO	LO	HI
2	2.20	LO	LO	LO	LO	LO	LO	22	3.28	LO	HI	HI	LO	LO	LO
3	2.26	LO	LO	LO	LO	LO	LO	23	3.43	LO	HI	HI	LO	LO	LO
4	2.33	LO	LO	LO	LO	LO	LO	24	3.33	LO	HI	HI	LO	LO	LO
5	2.38	LO	LO	LO	LO	LO	LO	25	3.38	LO	HI	HI	LO	LO	LO
6	2.42	LO	LO	LO	LO	LO	LO	26	3.48	LO	HI	HI	LO	LO	LO
7	2.46	LO	LO	LO	LO	LO	LO	27	3.53	LO	HI	HI	LO	LO	LO
8	2.54	LO	LO	LO	LO	LO	LO	28	3.58	LO	LO	LO	LO	LO	LO
9	2.59	LO	LO	LO	LO	LO	LO	29	3.63	LO	LO	LO	LO	LO	LO
10	2.63	LO	LO	LO	LO	LO	LO	30	3.69	LO	LO	LO	LO	LO	LO
11	2.67	LO	LO	LO	LO	LO	LO	31	3.74	LO	LO	LO	LO	LO	LO
12	2.75	LO	LO	LO	LO	LO	LO	32	3.79	LO	LO	LO	LO	LO	LO
13	2.79	LO	LO	LO	LO	LO	LO	33	3.85	LO	LO	LO	LO	LO	LO
14	2.83	LO	LO	LO	LO	LO	LO	34	3.90	LO	LO	LO	LO	LO	LO
15	2.87	LO	LO	LO	LO	LO	LO	35	3.96	LO	LO	LO	LO	LO	LO
16	2.96	LO	LO	LO	LO	LO	LO	36	4.02	LO	LO	LO	LO	LO	LO
17	3.00	LO	LO	LO	LO	LO	LO	37	4.07	LO	LO	LO	LO	LO	LO
18	3.05	LO	LO	LO	LO	LO	LO	38	4.14	LO	LO	LO	LO	LO	LO
19	3.09	LO	LO	LO	LO	LO	LO	39	4.20	LO	LO	LO	LO	LO	LO
20	3.19	LO	LO	LO	LO	LO	LO	40	4.26	LO	LO	LO	LO	LO	LO

DISPLAY TRUTH TABLE (S6)

CHANNEL	SWITCH TERMINAL									CHANNEL	SWITCH TERMINAL								
	1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9
1	0	0	1	1	1	1	1	0	0	21	0	0	1	1	1	0	0	0	0
2	0	0	0	1	1	1	1	1	0	22	0	0	0	1	1	0	0	1	0
3	0	0	1	1	1	1	1	1	0	23	0	0	1	1	1	0	0	1	0
4	1	0	0	1	1	1	1	0	0	24	1	0	0	1	1	0	0	0	0
5	1	0	1	1	1	1	1	0	0	25	1	0	1	1	1	0	0	0	0
6	1	0	0	1	1	1	1	1	0	26	1	0	0	1	1	0	0	1	0
7	1	0	1	1	1	1	1	1	0	27	1	0	1	1	1	0	0	1	0
8	0	1	0	1	1	1	1	0	0	28	0	1	0	1	1	0	0	0	0
9	0	1	1	1	1	1	1	1	0	29	0	1	1	1	1	0	0	0	0
10	0	0	0	1	0	1	1	0	0	30	0	0	0	1	0	1	0	0	0
11	0	0	1	1	0	1	1	0	0	31	0	0	1	1	0	1	0	0	0
12	0	0	0	1	0	1	1	1	0	32	0	0	0	1	0	1	0	1	0
13	0	0	1	1	0	1	1	1	0	33	0	0	1	1	0	1	0	1	0
14	1	0	0	1	0	1	1	0	0	34	1	0	0	1	0	1	0	0	0
15	1	0	1	1	0	1	1	0	0	35	1	0	1	1	0	1	0	0	0
16	1	0	0	1	0	1	1	1	0	36	1	0	0	1	0	1	0	1	0
17	1	0	1	1	0	1	1	1	0	37	1	0	1	1	0	1	0	1	0
18	0	1	0	1	0	1	1	0	0	38	0	1	0	1	0	1	0	0	0
19	0	1	1	1	0	1	1	0	0	39	0	1	1	1	0	1	0	0	0
20	0	0	0	1	1	0	0	0	0	40	0	0	0	0	0	1	1	0	0

U6 DM-88 ICAM

PIN	VOLTAGE
1	.8V
2	1.5V
3	8.3V
4	.7V
5	0V
6	7.3V
7	1.5V
8	1.5V
9	.8V
10	6.5V
11	.6V
12	0V ▲ 4.1
13	9.1V
14	.9V
15	4.2V
16	9.1V

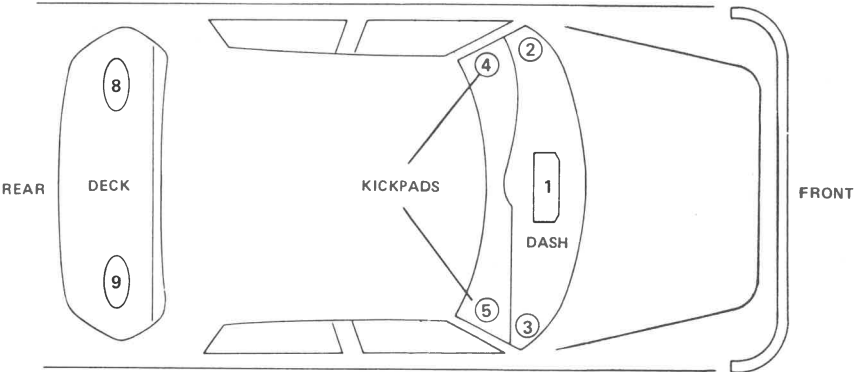
▲ XMIT

Illus. No.	Service No.	Description
DIODES		
D1	DS-130	ZENER, 7 VOLT
D2	DS-31	RF RECTIFIER
D3	DS-31	TRANSMIT DETECTOR
D4	DS-97	BRIDGE MUTE
D5	DS-97	BRIDGE MUTE
D6	DS-97	BRIDGE MUTE
D7	DS-97	BRIDGE MUTE
D8	DS-113	AGC
D9	DS-97	ALC
D10	DS-113	AGC
D11	DS-97	AGC
D12	DS-114	VARACTOR
D13	DS-97	AGC
D15	DS-97	DIODE
D16	DS-97	DIODE
D17	DS-97	DIODE
D18	DS-97	DIODE, SWITCHING
D19	DS-97	DIODE, SWITCHING
D20	DS-113	DIODE
D22	DS-97	BLOCKING
D23	DS-97	BLOCKING
D24	DS-97	BLOCKING
D25	DS-97	BLOCKING
D26	DS-27	DIODE
TRANSISTORS		
Q1	DS-66	AUTO LIMITER CONTROL
Q3	DS-76	MODULATION ERROR DETECTOR
Q4	DS-839	XMIT DRIVER
Q5	DS-781	TRANSMIT PRE-DRIVER
Q6	DS-83	MODULATOR
Q7	DS-840	XMIT FINAL
Q8	DS-66	BRIDGE MUTE
Q10	DS-83	AGC AMP.
Q11 & Q12	1224665	MIXER TRANSISTORS (MATCHED PAIR)
Q13	DS-781	TRANSMIT DOUBLER
Q14	DS-76	SQUELCH AMP.
Q15	DS-76	SQUELCH AMP.
Q16	DS-66	AUDIO AMP.
MODULES		
U1	DM-123	SPEECH CLIPPER — COMPRESSOR
U2	DM-80	DISPLAY DRIVE
U3	DM-122	ICPLL
U4	DM-112	ICVR 8 VOLT
U5	DM-94	ICVR 5 VOLT
U6	DM-88	ICAM
XFL1	16001658	QUARTZ FILTER, 10.695 MHZ
CF1	16008785	CERAMIC FILTER, 455 KHZ
CF2	16008785	CERAMIC FILTER, 455 KHZ
X1	16000426	XTAL, 10.240 MHZ
COILS & TRANSFORMERS		
L1	16008777	COIL RF/CB
L2	16008777	COIL RF/CB
L3	7291800	COIL RF, 11 h
L4	16010943	CHOKE, 47 h
L5	16008754	CHOKE, 10 h
L6	16008782	COIL, VCO ADJ.
L7	7296856	COIL 8 h
L8	16010536	COIL RF/CB
L9	16008754	CHOKE, 10 h
L10	16010536	CHOKE, RF/CB
L11	7291800	CHOKE, 11 h
L12	16008777	COIL, RF/CB
L13	16008778	COIL, RF/CB
L14	16008774	CHOKE, .237 h

Illus. No.	Service No.	Description
CAPACITORS & TRIMMERS		
T1	16008781	TRANSFORMER, 1ST MIXER
T2	16008779	TRANSFORMER, 1ST RF
T3	16008780	TRANSFORMER, 2ND RF
C1	16008570	TRIMMER, 10.24 MHZ OSC.
C11	7936361	15 MFD., 6 VOLT TANTALUM
C13	9349947	100 MFD., 16 VOLT TANTALUM
C21	7936360	10 MFD., 10 VOLT TANTALUM
C72	16010535	680 PF, 100 VOLT DISC
C76	16005020	300 PF, DIPPED MICA
C77	16005020	300 PF, DIPPED MICA
C78	16005021	430 PF, DIPPED MICA
C79	7936359	3 MFD., 35 VOLT, TANTALUM
C84	9349947	100 MFD., 16 VOLT ELECTROLYTIC
C112	7936360	10 MFD., 10 VOLT ELECTROLYTIC
C153	7897655	10.7 MHZ BYPASS
C164	7897655	10.7 MHZ BYPASS
C165	7897655	10.7 MHZ BYPASS
C175	16004308	20 MFD., 10 VOLT ELECTROLYIC
C183	7897655	10.7 MHZ BYPASS
C183	7897655	10.7 MHZ BYPASS
C194	7936361	15 MFD., 6 VOLT TANTALUM
C210	7936361	15 MFD., 6 VOLT TANTALUM
C211	7897655	10.7 MHZ BYPASS
C212	7897655	10.7 MHZ BYPASS
C213	7936362	4.7 MFD., 10 VOLT TANTALUM
C215	7936359	3 MFD., 35 VOLT TANTALUM
C222	16008763	.39 PF, 100 VOLT DISC
C225	16008759	100 PF, 100 VOLT DISC
C233	7936362	4.7 MFD., 10 VOLT TANTALUM
C237	7936361	15 MFD., 6 VOLT TANTALUM
C247	7936362	4.7 MFD., 10 VOLT TANTALUM
C249	9347345	7.5 PF, 100 VOLT DISC
C250	7936365	1 MFD., 10 VOLT TANTALUM
C275	7936359	3 MFD., 35 VOLT TANTALUM
C276	7936362	4.7 MFD., 10 VOLT TANTALUM
C332	16008763	.39 PF, 100 VOLT DISC
C334	16008766	150 PF, 100 VOLT DISC
C335	16008766	150 PF, 100 VOLT DISC
CONTROLS & RESISTORS		
R40	16011539	30K OHM, 2%
R150	9349022	POT, AUDIO LEVEL, 20K
R165	7898302	POT, SQUELCH, 10K
R234	16001817	75K OHM, 2%
R237	16001817	75K OHM, 2%
R244	16005033	3.9K OHM, 2%
R245	16005033	3.9K OHM, 2%
R246	16013761	12K OHM, 2%
R247	16013761	12K OHM, 2%
R248	16001816	100K OHM, 2%
MISCELLANEOUS		
1	7898293	BACKPLATE, POINTER
13	1224191	BUSHING & SHAFT PACKAGE
P2	16001158	CONNECTOR, 9-PIN (TO RADIO)
I4	16005615	DISPLAY & BOARD ASM., LED
6	16000504	SWITCH, MODE-SLIDE (S2)
7	16008788	SWITCH, ROTARY 40-POSITION (S6)
8	1224115	KNOB PKG., SQUELCH & CHANNEL
9	1223171	INSULATION PKG., DRIVER & FINAL
10	7898341	NUT, HEX SQUELCH
11	7231480	NUT, HEX SWITCH
12	16000692	CABLE, FLAT 15-CONDUCTOR
13	1224191	SHAFT & BUSHING PKG.
J4	16008793	CABLE ASM., ANTENNA
J5	16008794	CABLE ASM., MIKE 5-PIN
M1	1224215	MIKE, 5 CONDUCTOR

COMPLETE SPEAKER LISTING

SPEAKER LOCATION GUIDE
(TO BE USED WITH SPEAKER LIST)



SPEAKER CODES:
A - 6 x 9
C - 4 x 10
D - 4 x 6
E - 3½ Round

CAR CODES:
HATCHBACKH
PASSENGER CARSC
STATION WAGONSW
TRUCKST

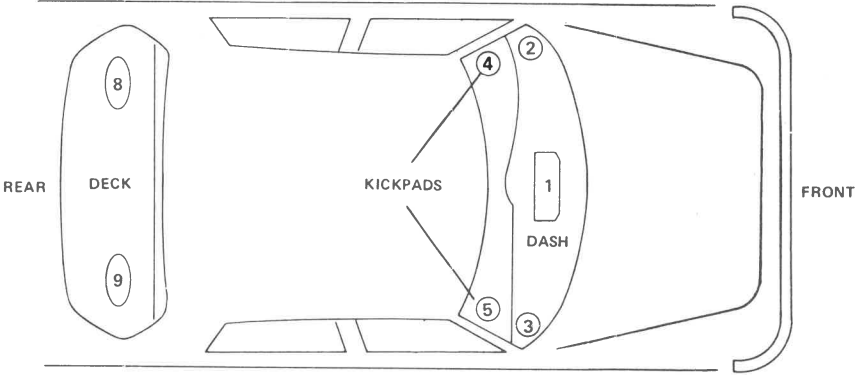
CAR NAME	LOCATION & SPEAKER CODE	CAR CODE	STANDARD SPEAKER	EXTENDED RANGE SPEAKER
CENTURY	2E & 3E 8A or 9A	CW CW	16006240 16004570	16004150
LE SABRE & ELECTRA	2D & 3D 8A or 9A 8C or 9C	CW C W	16006240 16004570 16009190	16004150
REGAL	2E & 3E 8C or 9C	C C	16009923 16003571	16004300
RIVIERA	2D & 3D 8C or 9C	C C	16006240 16003571	16004300
SKYLARK	D & 3D 8C or 9C	C C	16006240 16003571	16004300
DEVILLE AND FLEETWOOD	2D & 3D 8A & 9A	C C	16006240 16004150	
EL DORADO	2D & 3D 8A & 9A	C C	16006240 16004300	
SEVILLE	2D & 3D 8A & 9A	C C	16006240 16004150	
CIMARRON	2E & 3E 8A & 9A	C C	16014612 16004570	16004150
CELEBRITY	2D & 3D 8A or 9A 8C or 9C	CW C W	16006240 16004570 16003571	16004150 16004300
MONTE CARLO	2E & 3E 8C or 9C	C CW	16006260 16003571	16004300
CHEVETTE	1C 8D or 9D	C C	16006911 16008150	
IMPALA & CAPRICE	2D & 3D 8A or 9A	CW CW	16006240 16004570	16004150
CAMARO	1C 8A or 9A	C C	16006240 16018470	
CAVALIER	2E & 3E 8C & 9C 8A & 9A	C HW C	16014612 16003571 16004570	16004300 16004150

COMP

CAR NAME
CORVETTE
CITATION
A-6000
GRAND PRIX
T-1000
FIREBIRD
J-2000
PHOENIX
88 AND 98
CUTLASS SUPREM
TORONADO
OMEGA
CIERA
EL CAMINO
S10 & S15
CHEVY PICK-UP, E SUBURBAN
"G" VAN
ALUMINUM TILT C
MEDIUM DUTY

COMPLETE SPEAKER LISTING

SPEAKER LOCATION GUIDE
(TO BE USED WITH SPEAKER LIST)



SPEAKER CODES:

- A - 6 x 9
- C - 4 x 10
- D - 4 x 6
- E - 3½ Round

CAR CODES:

- HATCHBACKH
- PASSENGER CARSC
- STATION WAGONSW
- TRUCKST

CAR NAME	LOCATION & SPEAKER CODE	CAR CODE	STANDARD SPEAKER	EXTENDED RANGE SPEAKER
CENTURY	2E & 3E 8A or 9A	CW CW	16006240 16004570	16004150
LE SABRE & ELECTRA	2D & 3D 8A or 9A 8C or 9C	CW C W	16006240 16004570 16009190	16004150
REGAL	2E & 3E 8C or 9C	C C	16009923 16003571	16004300
RIVIERA	2D & 3D 8C or 9C	C C	16006240 16003571	16004300
SKYLARK	D & 3D 8C or 9C	C C	16006240 16003571	16004300
DEVILLE AND FLEETWOOD ..	2D & 3D 8A & 9A	C C	16006240 16004150	
EL DORADO	2D & 3D 8A & 9A	C C	16006240 16004300	
SEVILLE	2D & 3D 8A & 9A	C C	16006240 16004150	
CIMARRON	2E & 3E 8A & 9A	C C	16014612 16004570	16004150
CELEBRITY	2D & 3D 8A or 9A 8C or 9C	CW C W	16006240 16004570 16003571	16004150 16004300
MONTE CARLO	2E & 3E 8C or 9C	C CW	16006260 16003571	16004300
CHEVETTE	1C 8D or 9D	C C	16006911 16008150	
IMPALA & CAPRICE	2D & 3D 8A or 9A	CW CW	16006240 16004570	16004150
CAMARO	1C 8A or 9A	C C	16006240 16018470	
CAVALIER	2E & 3E 8C & 9C 8A & 9A	C HW C	16014612 16003571 16004570	16004300 16004150

COMPLETE SPEAKER LISTING

CAR NAME	LOCATION & SPEAKER CODE	CAR CODE	STANDARD SPEAKER	EXTENDED RANGE SPEAKER
CORVETTE	2D & 3D 8A or 9A	C C	16006240 16004570	16004150
CITATION	2E & 3E 8C or 9C	CH CH	16006260 16003571	16004300
A-6000	2D & 3D 8A or 9A	CW C	16006240 16004570	16004150
GRAND PRIX	1C 2E & 3E 8C or 9C	C C C	16006250 16014612 16003571	16004300
T-1000	1C 8A & 9A	C C	16006911 16008150	
FIREBIRD	2D & 3D 8A or 9A	C C	16006240 16018470	
J-2000	2E & 3E 8A & 9A 8A & 9A	CH C CW	16004612 16004570 16003571	
PHOENIX	2D & 3D 8C & 9C	CH CH	16006240 16003571	
88 AND 98	2E & 3E 8A or 9A 8C or 9C	CW C W	16009923 16004570 16009190	16004150
CUTLASS SUPREME	2E & 3E 8C or 9C	CW CW	16009923 16003571	16004300
TORONADO	2D & 3D 8C or 9C	C C	16006240 16003571	16004300
OMEGA	2D & 3D 8C or 9C	C C	16006240 16003571	16004300
CIERA	2E & 3E 8A & 9A	C C	16004612 16004570	16004150
EL CAMINO	2E & 3E 8A & 9A	T T	16006260 16004750	16004150
S10 & S15	2D & 3D 8C & 9C	T T	16015581 16003571	16004300
CHEVY PICK-UP, BLAZER & SUBURBAN	1C 2D & 3D 8C & 9C	T T T	16007361 16012331 16001261	
"G" VAN	2D & 3D 8A or 9A	T T	16006240 16004570	16004150
ALUMINUM TILT CAB	1C 2C & 3C 8C & 9C	T T T	16006911 16006911 16006911	
MEDIUM DUTY	1C 8C & 9C	T T	16001261 16001261	