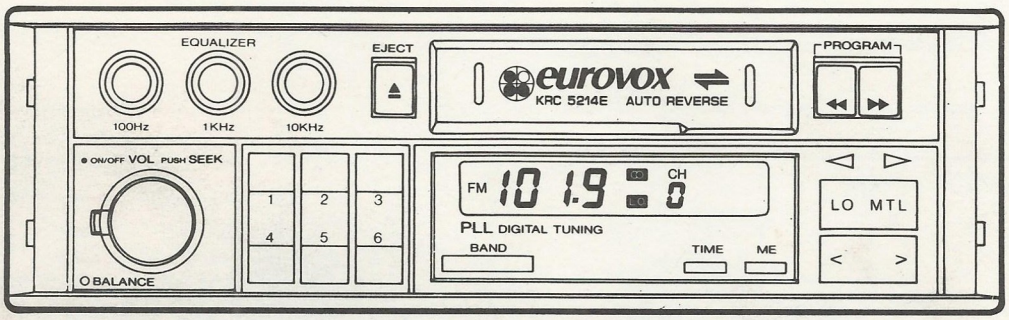
eurovox

Service Manual

KRC-5214 E



Re Radio Interference – check aerial lead-in earth termination on chassis

FEATURES

- Quartz PLL Synthesized Tuner
- 12 Memory Presets
- Auto Tuning (seek)
- Switch-AM/FM
- LO/DX Reception Control Switch
- Quartz Clock
- Auto Reverse Tape Deck Mechanism
- Locking Fast Forward & Rewind
- 3 BAND EQ CONTROL
- 7W MAX. OUTPUT
- Power Antenna Activator
- Normal/Metal Tape Selection
- Time Recall Switch
- DUAL Illumination
- Low Level Output RCA Jacks

SPECIFICATIONS

FM TUNER:

Frequency Range	87.5 ~ 107.9 MHz
Usable Sensitivity	3μV
Intermediate Frequency	10.7 MHz
Frequency Response	40 Hz ~ 10 kHz
Stereo Separation	> 30 dB at 1 kHz
Alternate Channel Selectivity	> 50 dB
Signal/Noise Ratio	> 50 dB
Image Response Ratio	> 50 dB
AM Suppression	> 50 dB

AM TUNER:

Frequency Range	522 ~ 1620 kHz
Usable Sensitivity	35μV
Intermediate Frequency	459 kHz
Image Rejection	> 40 dB

TAPE SECTION:

Tape Speed	4.75cm/sec. $^{+3}_{-2}$%
Wow and Flutter	< 0.35% WRMS
Cross Talk	> 40 dB
Signal-to-Noise Ratio	> 50 dB
Frequency Response	40Hz ~ 10 kHz
Channel Separation	> 30 dB
Fast Forward and Rewind Time	140 ± 20 sec.

GENERAL:

Power Supply Voltage	13.8V DC
Current Consumption	< 3A
Load Impedance	4 ohms
Output Power	7 Watts/Channel

Specifications are subject to change for improvement without notice.

ALIGNMENT PROCEDURE

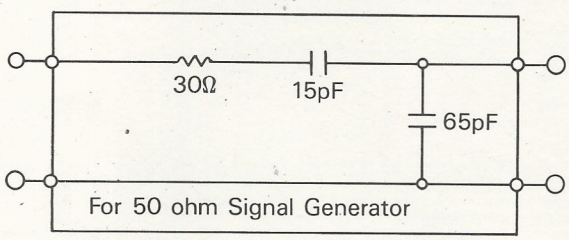
☐ INSTRUMENTS REQUIRED

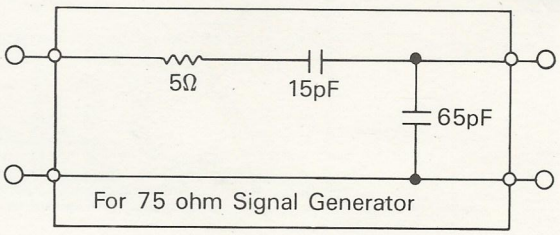
- AM Signal Generator
- FM Signal Generator
- FM Stereo Generator
- Frequency Counter
- DC Meter
- Output Meter (VTVM)
- Oscilloscope
- AM Dummy Ant.
- FM Dummy Ant.

☐ IMPORTANT

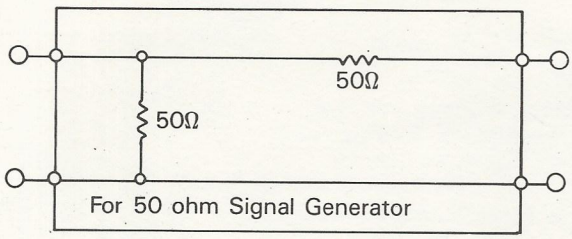
- Use-non-metallic tools for the following adjustments.
- Generator signal level should be kept as low as possible to avoid signal clipping or saturation.
- RF generator signal should be modulated 30% by 400kHz sine-wave signal.
- To ensure proper generator-to-receiver impedance matching, connect appropriative dummy antenna between generator and receiver.
- Do not put negative sides of L and R channels together, as this may result in damaging the unit.
- Test instrument negative sides of L and R channels should not be put together.
- Negative side of battery must be isolated from negative sides of speakers and test instrument L and R channels.

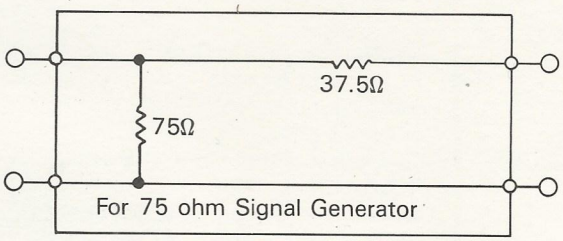
AM Dummy Antenna





FM Dummy Antenna

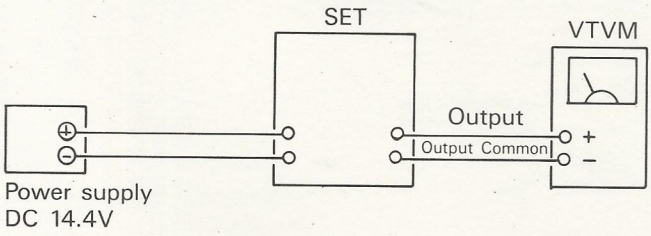


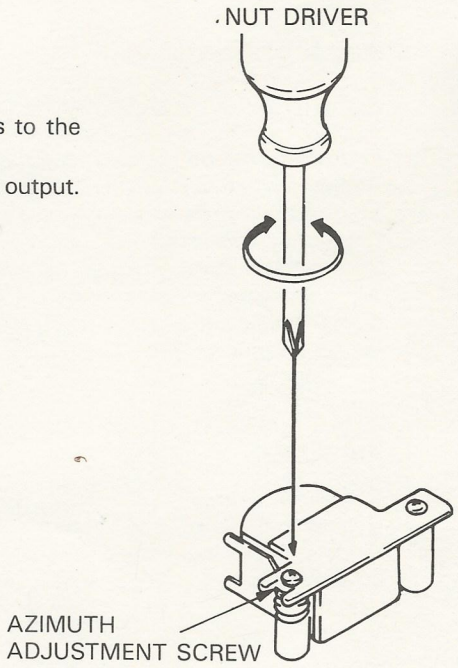


☐ TAPE DRIVE ADJUSTMENT

Head Azimuth Adjustment

Load the unit with a 6.3kHz test tape (MTT 113) Set the Volume and Tone controls to the maximum position and Balance control to the mechanical center.
Turn Azimuth adjustment nut for maximum output on the VTVM connected to the audio output.





□ ALIGNMENT

FM ALIGNMENT

Alignment	Instrument Connection	Instrument Setting	Dial Setting	Adjustment
IF	FM SSG to Ant. Jack thru FM Dummy Ant. DC Meter to Pin 14 of IC 101. (See Fig. 1)	98.1 MHz 60dB/μV	98.1 MHz	Detector coil (T101) so that to obtain approximately OV at Pin 14 of IC 101.
				Change SSG frequencies and confirm that the range falls within ±75kHz at the voltage of Step. 1.
				Confirm the S curve is symmetric.
Tracking	Front end is Factory adjusted: do not move trimmer and coil.			
19kHz Adjust	FM SSG to Ant. Jack thru FM Dummy Ant. Audio Output to V.T.V.M and Frequency Counter to T.P (Pin 13 of IC 102) (19kHz check point SVR2) (Freq. counter input impedance 100KΩ) (See Fig. 3)	98.1 60dB/μV	98.1 MHz	So that Frequency counter indicates 19kHz±10 Hz.

AM ALIGNMENT

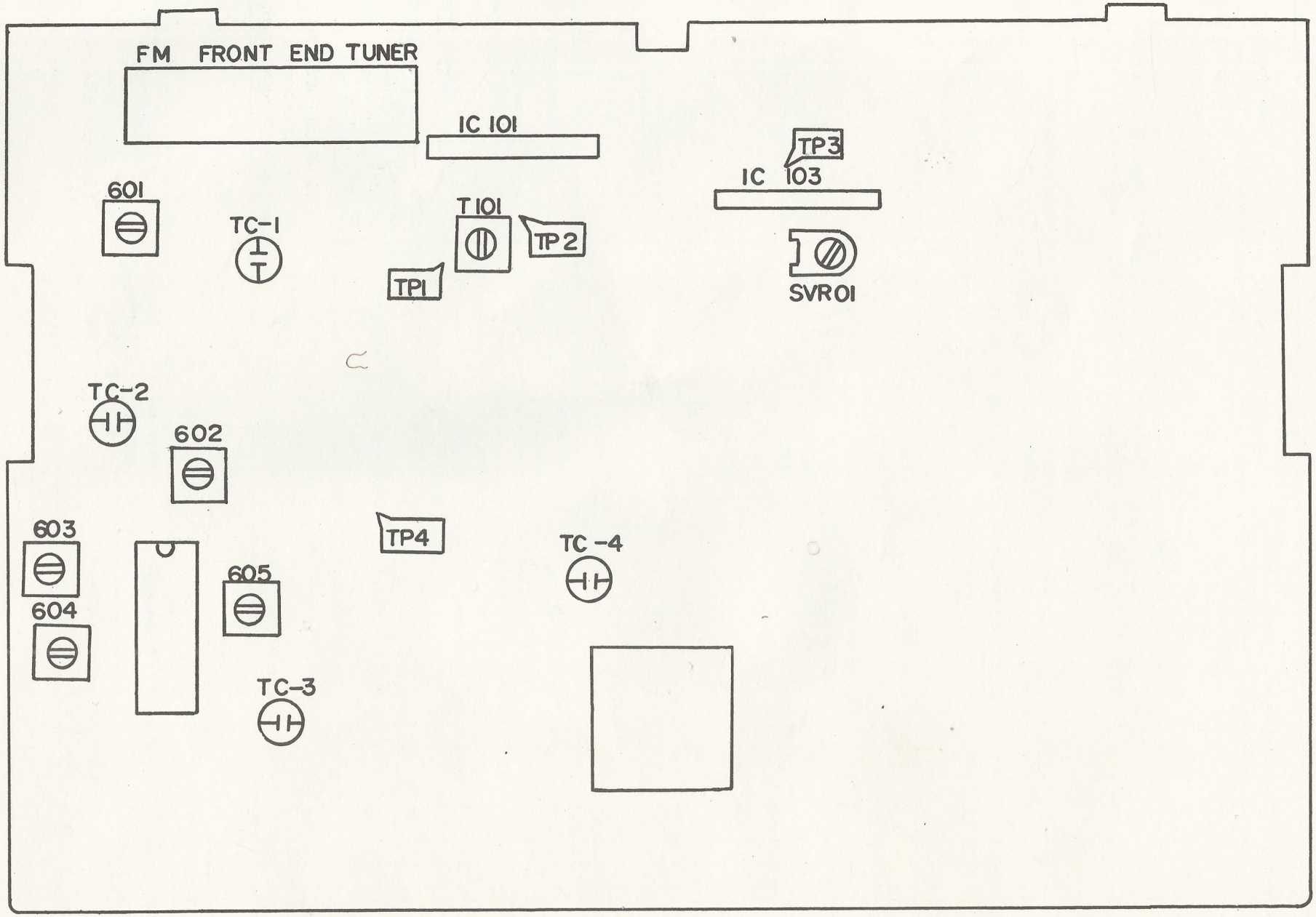
Alignment	Instrument Connection	General Frequency	Dial Setting	Adjustment
IF	AM SSG to Ant. Jack thru AM Dummy Ant. Audio output to VTVM.	612kHz 60 dB/μV	612kHz	If coil (T104, 105) to obtain approximately. Max output at audio output.
Band Coverage	DC Meter to R41 (See Fig. 2)	522kHz 1629kHz	522kHz 1629kHz	522kHz: T 102 to obtrain approximately 1.2V at R203 1629kHz: TC1 to obtain approximately 7.5V at R203.
Tracking	AM SSG to Ant. Jack turn AM Dummy Ant. Audio output to VTVM.	612kHz 35dB/μV	612kHz	Ant & RF coil (T103, 104) to obtain approximately. Max output at audio output.

PLL ALIGNMENT

Alignment	Instrument Connection	Instrument Setting	Dial Setting	Adjustment
PLL Control	Frequency counter to C112 (See Fig. 5)		999kHz	TC2 to obtain approximately 1449kHz

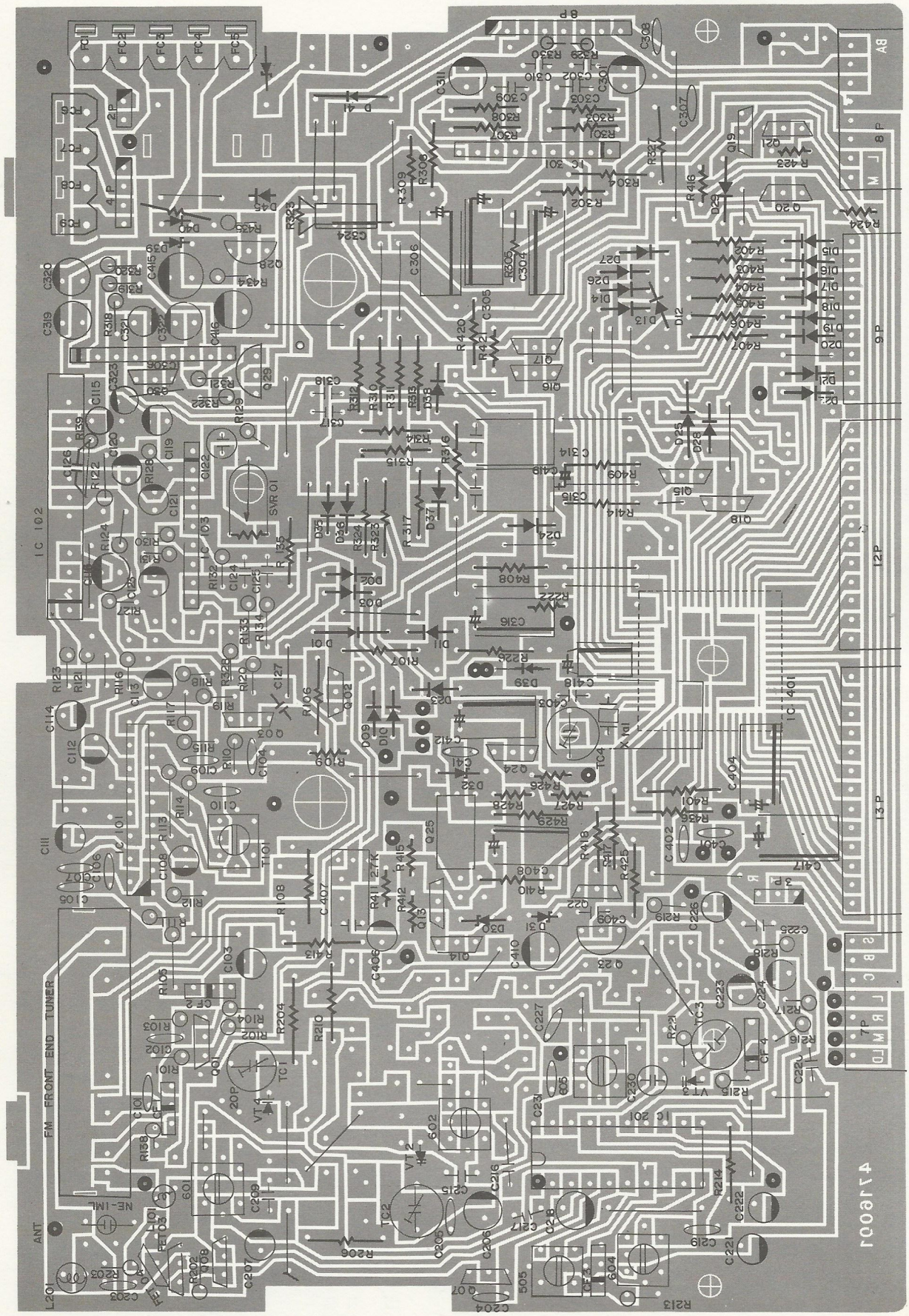
□ ALIGNMENT POINT

MAIN P. C BOARD (Top View)

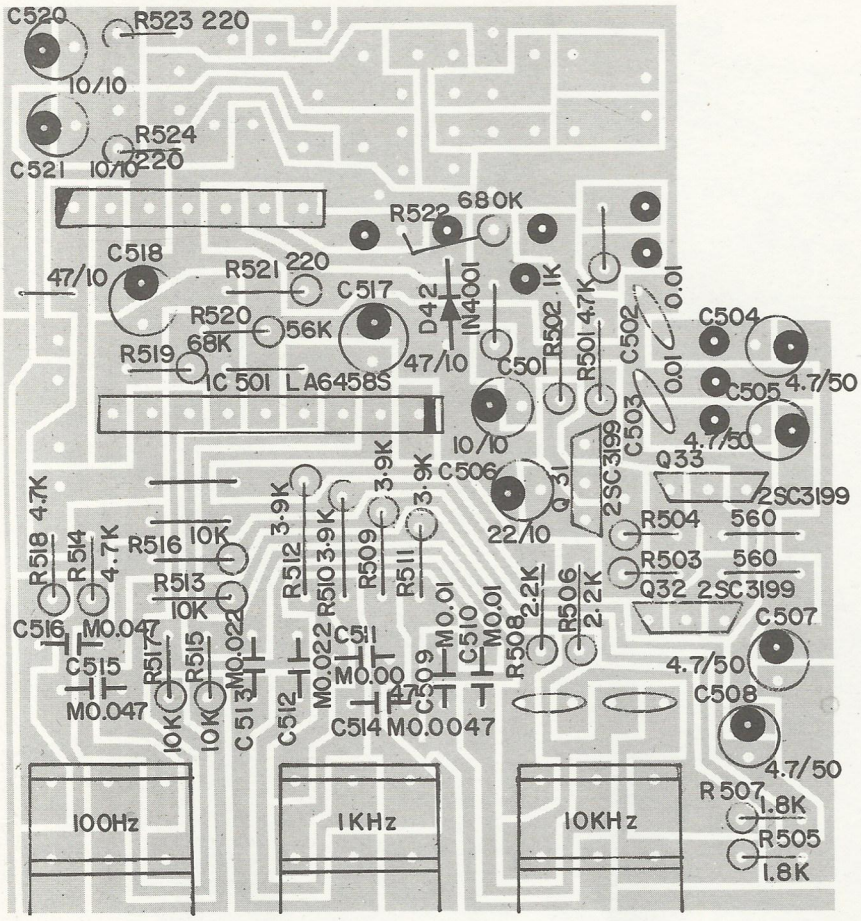


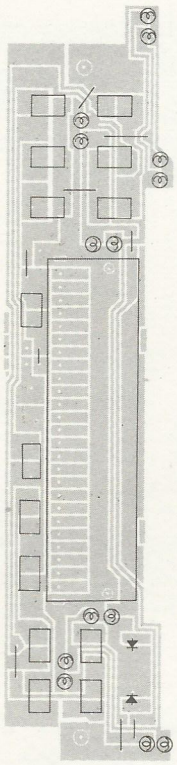
■ CIRCUIT BOARD

□ RADIO MAIN P. C. BOARD (Top View)



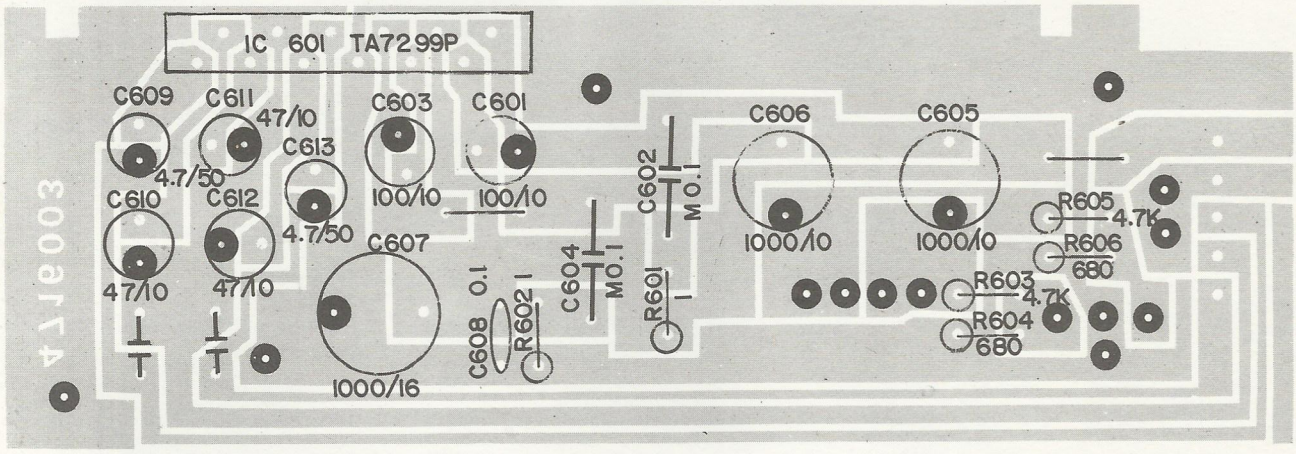
□ EQ P. C. B (Top View)



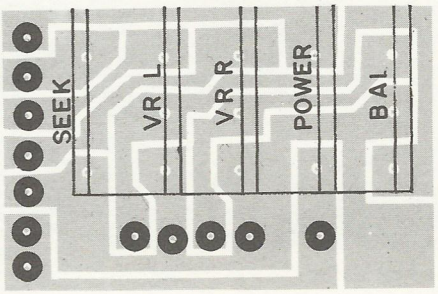


□ SWITCH P. C. B (Bottom View)

□ POWER P. C. B (Top View)



□ VOLUME P. C. B (Top View)



■ PARTS LIST

REF. NO.	DESCRIPTION		PART NO.
MAIN			
EPM600ED	PCB (MAIN)	FR-2 173x119.2x1.6t	
UTF09A15	FM FRONT END TUNER	FE309-A15	AR*001
FCF7MS3A	CERAMIC FILTER	SEF 10.7MS3-A	EOP*003
FCA2450BL	CERAMIC FILTER	CFM2-450BL	EOP*002
FCA50C4N	CERAMIC FILTER	BFU-450C4N	EOP*001
CTJ13RMH	TANTAL CAPACITOR	3.3uF 6.3V	
EXN4R5MH	X-TAL	HC-18/u 4,500KHz	EOC*001
VTE52200	TRIMMER CAPACITOR	20PF CV05 HS (u)	ECCV*003
VTB52300	TRIMMER CAPACITOR	30PF CV05 HR (u)	ECCV*004
VSH83502	SEMIFIXED RESISTOR	8H3P B5K	ECRV-361
CFL51023	FEEDTHROUGH CAPACITOR	301P65-L05-U3950	
JJAL600E	ANTENNA JACK	BLACK 50	AH-294
ACHDA6E0	POWER CORD A'SSY	4PIN W/FUSE 3A EI-1.9	
WASFGJ06	AUTO ANT WIRE	GRAY 0.18x12 600m/m	
WEFHPK09	MEMORY WIRE	PINK U/FUSE 1A 900m/m	
ILSFOR02	ILLUMINATION WIRE	ORANGE W/SLEEVE	
ILSFGN02	ILLUMINATION WIRE	GREEN W/SLEEVE	
ILSFRD02	ILLUMINATION WIRE	RED W/SLEEVE	
IDV1235Z	VIRACAP DIODE	KV 1235Z	ETD*KV-12352
IILA1140	IC FM IF	LA1140 (RED)	ETI*LA-1140
IIIA7343	IC MPX	KIA 7343AP	ETI*KIA-7343
IILA1135	IC AM	LA 1135	ETI*LA-1135
IILA3161	IC EQ	LA 3161	ETI*LA-3161
II8AG011	IC CONTROLLER	uPD 1708AG-011	ETI*UPD-1708G-011
IHPE3804	HYBRID IC N/C	SPE-3804	ETI*SPE-3804
IFSK315G	FET	2SK 315G	ETTK*2SK-315
IT380TM0	TRANSISTOR	2SC 380TM (O)	ETTC*2SC-380TM
ITC3199J	TRANSISTOR	2SC 3199 (Y)	ETTC*2SC-3199
ITC2236J	TRANSISTOR	2SC 2236 (Y)	ETTC*KTC-2236
ITA1267J	TRANSISTOR	2SA 1267 (Y)	ETTA*2SA-1267Y
ID J4001	DIODE	1N4001	ETD*IN-4001
IDZ56000	DIODE ZENER	5.6V 500mA	ETD RD-5.6E
IDZ91500	DIODE ZENER	9.1V 500mA	ETD RD-9.1FB
IDSN4148	DIODE SI	1N4148	ETD*IN-4148
ENPEEIML	NEON LAMP	NE-1ML	EIN-3
TCTOR3UH	INDUCTOR COIL	0.3uH	ELA*003
TCM4R7UH	INDUCTOR COIL	4.7uH MOLD	ELA*002
TIFD062A	IFT FM DET	RK12-8062A C501A	ELD*007
TIAR2620	IFT RF-1	RK12-8262 601	ELD*008
TIAR2610	IFT RF-2	RK12-8261 602	ELD*009
TIAA2550	IFT AM-A	RK12-8255 603	ELD*010
TIA02560	IFT AM-C	RK12-8256 604	ELD*011
TIA02590	IFT OSC	RK12-8259 605	ELD*012
CPR1391J	STYROL CAPACITOR	1H 390PF J	

REF. NO.	DESCRIPTION		PART NO.
CPR1102J	STYROL CAPACITOR	1H 1000PF J	
CCRN330J	CERAMIC CAPACITOR	CCRH 33PF J	
CCRN180J	CERAMIC CAPACITOR	CCRH 18PF J	
	CERAMIC CAPACITOR	SL	
CCRN100J	CERAMIC CAPACITOR	CCRH 10PF J	
CCBNR01K	CERAMIC CAPACITOR	CKY5P 0.01uF K	
CCBN223K	CERAMIC CAPACITOR	CKY5P 0.022uF K	
CCBN473Z	CERAMIC CAPACITOR	CKY5P 0.047uF Z	
CCBNOR1Z	CERAMIC CAPACITOR	CKY5P 0.1uF Z	
CMS1102J	MYLAR CAPACITOR	1H 0.001uF J (SMALL)	
CMN1R01K	MYLAR CAPACITOR	1H 0.01uF K	
CMN1223K	MYLAR CAPACITOR	1H 0.022uF K	
CMN1393K	MYLAR CAPACITOR	1H 0.039uF K	
CMN1332J	MYLAR CAPACITOR	1H 0.0033uF J	
	EJECT CAPACITOR	CE04SM	
CERFR47G	EJECT CAPACITOR	CD04SM 0.47uF 50V	
CERF1R0G	ELECT CAPACITOR	CE04SM 1uF 50V	
CERF3R3G	ELECT CAPACITOR	CE04SM 3.3uF 50V	
CERF4R7G	ELECT CAPACITOR	CE04SM 4.7uF 50V	
CERFOR1G	ELECT CAPACITOR	CE04SM 0.1uF 50V	
CERB220G	ELECT CAPACITOR	CE04SM 22uF 10V	
CERB330G	ELECT CAPACITOR	CE04SM 33uF 10V	
CERB470G	ELECT CAPACITOR	CE04SM 47uF 10V	
CERB101G	ELECT CAPACITOR	CE04SM 100uF 10V	
CERB221G	ELECT CAPACITOR	CE04SM 220uF 10V	
CERF2R2K	ELECT CAPACITOR	CE04SRA 2.2uF 50V	
RCR82R2J	RESISTOR FORMING	1/8W 2.2 ohm J	
RCR8270J	RESISTOR FORMING	1/8W 27 ohm J	
RCR8680J	RESISTOR FORMING	1/8W 68 ohm J	
RCR8820T	RESISTOR FORMING	1/8W 82 ohm J	
RCR8101J	RESISTOR FORMING	1/8W 100 ohm J	
RCR8221J	RESISTOR FORMING	1/8W 220 ohm J	
RCR8331J	RESISTOR FORMING	1/8W 330 ohm J	
RCR8471J	RESISTOR FORMING	1/8W 470 ohm J	
RCR8821J	RESISTOR FORMING	1/8W 820 ohm J	
RCR8102J	RESISTOR FORMING	1/8W 1K ohm J	
RCR8332J	RESISTOR FORMING	1/8W 3.3K ohm J	
RCR8392J	RESISTOR FORMING	1/8W 3.9K ohm J	
RCR8472J	RESISTOR FORMING	1/8W 4.7K ohm J	
RCR8822J	RESISTOR FORMING	1/8W 8.2K ohm J	
RCR8682J	RESISTOR FORMING	1/8W 6.8K ohm J	
RCR8103J	RESISTOR FORMING	1/8W 10K ohm J	
RCR8562J	RESISTOR FORMING	1/8W 5.6K ohm J	
RCR8183J	RESISTOR FORMING	1/8W 18K ohm J	
RCR8152J	RESISTOR FORMING	1/8W 1.5K ohm J	

REF. NO.	DESCRIPTION		PART NO.
RCR8333J	RESISTOR FORMING	1/8W 33K ohm J	
RCR8393J	RESISTOR FORMING	1/8W 39K ohm J	
RCR8473J	RESISTOR FORMING	1/8W 47K ohm J	
RCR8563J	RESISTOR FORMING	1/8W 56K ohm J	
RCR8823J	RESISTOR FORMING	1/8W 82K ohm J	
RCR8104J	RESISTOR FORMING	1/8W 100K ohm J	
RCR8124J	RESISTOR FORMING	1/8W 120K ohm J	
RCR8224J	RESISTOR FORMING	1/8W 220K ohm J	
RCR8105J	RESISTOR FORMING	1/8W 1M ohm J	
RCR2680J	RESISTOR FORMING	1/2W 68 ohm J	
RCS84R7J	RESISTOR STRAIGHT	1/8W 4.7 ohm J	
RCS8100J	RESISTOR STRAIGHT	1/8W 10 ohm J	
RCS8220J	RESISTOR STRAIGHT	1/8W 22 ohm J	
RCS8101J	RESISTOR STRAIGHT	1/8W 100 ohm J	
RCS8121J	RESISTOR STRAIGHT	1/8W 120 ohm J	
RCS8103J	RESISTOR STRAIGHT	1/8W 1K ohm J	
RCS8182J	RESISTOR STRAIGHT	1/8W 1.8K ohm J	
RCS8222J	RESISTOR STRAIGHT	1/8W 2.2K ohm J	
RCS8332J	RESISTOR STRAIGHT	1/8W 3.3K ohm J	
RCS8472J	RESISTOR STRAIGHT	1/8W 4.7K ohm J	
RCS8822J	RESISTOR STRAIGHT	1/8W 8.2K ohm J	
RCS8103J	RESISTOR STRAIGHT	1/8W 10K ohm J	
RCS8473J	RESISTOR STRAIGHT	1/8W 47K ohm J	
RCS8104J	RESISTOR STRAIGHT	1/8W 100K ohm J	
RCS8154J	RESISTOR STRAIGHT	1/8W 150K ohm J	
RCS8224J	RESISTOR STRAIGHT	1/8W 220K ohm J	
RCS8274J	RESISTOR STRAIGHT	1/8W 270K ohm J	
RCS8334J	RESISTOR STRAIGHT	1/8W 330K ohm J	
RCS8564J	RESISTOR STRAIGHT	1/8W 560K ohm J	
RCS6151J	RESISTOR STRAIGHT	1/16W 150 ohm J	
RCS6102J	RESISTOR STRAIGHT	1/16W 1K ohm J	
RCS6272J	RESISTOR STRAIGHT	1/16W 2.7K ohm J	
RCS6103J	RESISTOR STRAIGHT	1/16W 10K ohm J	
RCS6223J	RESISTOR STRAIGHT	1/16W 22K ohm J	
RCS6273J	RESISTOR STRAIGHT	1/16W 27K ohm J	
RCS6104J	RESISTOR STRAIGHT	1/16W 100K ohm J	
RCS6274J	RESISTOR STRAIGHT	1/16W 270K ohm J	
RCS6684J	RESISTOR STRAIGHT	1/16W 680K ohm J	
RCS6153J	RESISTOR STRAIGHT	1/16W 15K ohm J	
WTOR5003	TIN WIRE (JUMPER)	0.50 3m/m	
WTOR5005	TIN WIRE (JUMPER)	0.50 5m/m	
WTOR5006	TIN WIRE (JUMPER)	0.50 6m/m	
WTOR5007	TIN WIRE (JUMPER)	0.50 7m/m	
WTOR5010	TIN WIRE (JUMPER)	0.50 10m/m	
WTOR5012	TIN WIRE (JUMPER)	0.50 12m/m	
JCWB267I	PIN CONNECTOR 5264N	2PIN IW	

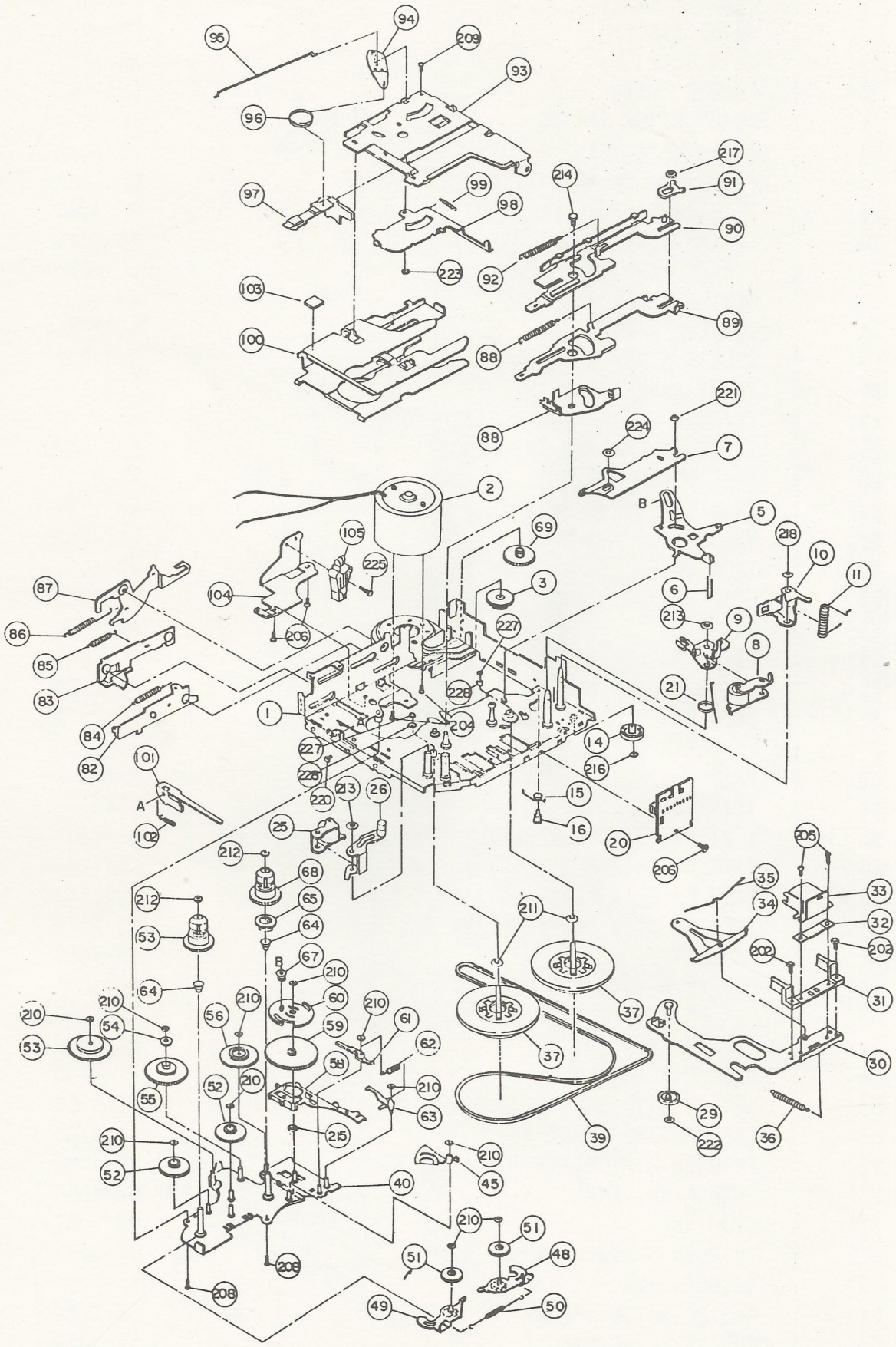
REF. NO.	DESCRIPTION			PART NO.
JCWC267I	PIN CONNECTOR 5264N	3PIN	IW	
JCWF267I	PIN CONNECTOR 5264N	6PIN	IW	
JCWF268L	PIN CONNECTOR 5264N	6PIN	LW	
JCWG268L	PIN CONNECTOR 5264N	7PIN	LW	
JCWI268L	PIN CONNECTOR 5264N	9PIN	LW	
JCWL268L	PIN CONNECTOR 5264N	12PIN	LW	
JCWM268L	PIN CONNECTOR 5264N	13PIN	LW	
WSIG8140	SHIELD WIRE 1P	GRAY	140m/m	
WS2G8120	SHIELD WIRE 2P	GRAY	120m/m	
WLHBK040	LEAD WIRE 0.18x16	BLACK	40m/m	
WLHBK050	LEAD WIRE 0.18x16	BLACK	50m/m	
WLUJL070	LEAD WIRE 0.12x7	YELLOW	70m/m	
WLUJL110	LEAD WIRE 0.12x7	YELLOW	110m/m	
WLUGN090	LEAD WIRE 0.12x7	GREEN	90m/m	
WLUBL060	LEAD WIRE 0.12x7	BLUE	60m/m	
WLUVT060	LEAD WIRE 0.12x7	VIOLET	60m/m	
WLUWT140	LEAD WIRE 0.12x7	VIOLET	140m/m	
WLUWT070	LEAD WIRE 0.12x7	WHITE	70m/m	
	FLUX			
	THINER			
	SOLDER BAR	60:40	SN/Pb	
	SOLDER WIRE	60:40	SN/Pb	
	BLACK UL TUBE	10		
SWITCH				
EPS600E0	PCB (SWITCH)	FR-2 (148.5x33.5x1.6t)		
DCDL7118	LCD DISPLAY	HDL-7118		EIX*004
STTP1250	TACT SWITCH	JTP 1250		ESS*005
ILT25GG3	LED LAMP	SLT 25GG3		ETD*003
ELPD1440	PILOT LAMP	14V 40mA 30 PCB TYPE		EIL*002
JCHG60EA	PIN CONNECTOR 526RN	7PIN W/LEAD		
JCHI60EA	PIN CONNECTOR 526RN	9PIN W/LEAD		
JCHL60EA	PIN CONNECTOR 526RN	12PIN W/LEAD		
JCHM60EA	PIN CONNECTOR 526RN	13PIN W/LEAD		
JCHB60EA	PIN CONNECTOR 526RN	2PIN W/LEAD		
DECK				
ADRTN717	DECK MECHANISM A'SSY	TN-717MH-101		AA*004
CERC471I	ELECT CAPACITOR	CE04SR 470uF 16V		
RCS25R6J	RESISTOR (STRAIGHT)	1/2W 5.6 ohm J		
WLUBK045	LEAD WIRE 0.12x7	BLACK	45m/m	
WLUBN045	LEAD WIRE 0.12x7	BROWN	45m/m	
WLURD045	LEAD WIRE 0.12x7	RED	45m/m	
WLUJL045	LEAD WIRE 0.12x7	YELLOW	45m/m	
WLUOR045	LEAD WIRE 0.12x7	ORANGE	45m/m	
JCHC60EA	PIN CONNECTOR 5264N	3PIN W/LEAD		
JCHF60EA	PIN CONNECTOR 5264N	6PIN W/LEAD		

REF. NO.	DESCRIPTION		PART NO.
POWER			
EPP600E0	PCB (POWER)	FR-2 84.5x29x1.6t	
IITA799	IC (POWER)	TA 7299P	ETI*TA-7299P
CCBN0RIZ	CERAMIC CAPACITOR	CKY5P 0.1uF Z	
CMN10RIK	MYLAR CAPACITOR	1H 0.1uF K	
CERF4R7G	ELECT CAPACITOR	CE04SM 4.7uF 50V	
CERB470G	ELECT CAPACITOR	CE04SM 47uF 50V	
CERB101G	ELECT CAPACITOR	CE04SM 100uF 50V	
CERB102G	ELECT CAPACITOR	CE04SM 1000uF 50V	
CERC102G	ELECT CAPACITOR	CE04SM 1000uF 50V	
RCR81R0J	RESISTOR (FORMING)	1/8W 1 ohm J	
RCR8681J	RESISTOR (FORMING)	1/8W 680 ohm J	
RCR8472J	RESISTOR (FORMING)	1/8W 4.7K ohm J	
JCWE268L	PIN CONNECTOR 5264N	5PIN LW	
JCHB60EB	PIN CONNECTOR 5264N	2PIN W/LEAD	
JJRL600E	RCA JACK	L+R GRAY	AH-185
WTOR5006	TIN WIRE (JUMPER)	0.50 6m/m	
WLHBK060	LEAD WIRE 0.18x16	BLACK 60m/m	
WLHBK080	LEAD WIRE 0.18x16	BLACK 80m/m	
V/R			
EPV600E0	PCB (VR)	FR-2 29x19x1.6t	
VR12C150	VARIABLE RESISTOR	5N1211-50KW	ECRV*004
		K12C150-5N4311-50KAx2	
JCHE60EA	PIN CONNECTOR 5264N	5PIN W/LEAD	
JCHG60EB	PIN CONNECTOR 5264N	7PIN W/LEAD	
WLJRD230	LEAD WIRE 0.18x20	REP. 230 mm	
TONE			
EP0660E0	PCB (TONE)	FR-2 60.5x55x1.6t	
VR122100	VARIABLE RESISTOR	K122100-20KAx2	ECRV*005
IILA6458	IC	LA 6458S	ETI*LA-6458
ITC3199J	TRANSISTOR	2SC 3199 (Y)	ETTC*2SC-3199
IDBN4001	DIODE	1N4001	ETD*IN-4001
CCBN1031K	CERAMIC CAPACITOR	CKY5P 0.01uF K	
CMN1472J	MYLAR CAPACITOR	1H 0.0047uF J	
CMN1223J	MYLAR CAPACITOR	1H 0.022uF J	
CMS473J	MYLAR CAPACITOR (SMALL)	1H 0.047uF J	
CMN1103J	MYLAR CAPACITOR	1H 0.01uF J	
CERF4R7G	ELECT CAPACITOR	CE04SM 4.7uF 50V	
CERC100G	ELECT CAPACITOR	CE04SM 10uF 50V	
CERB220G	ELECT CAPACITOR	CE04SM 22F 50V	
CERB470G	ELECT CAPACITOR	CE04SM 47uF 50V	
RCR8221J	RESISTOR (FORMING)	1/8W 220 ohm J	
RCR8102J	RESISTOR (FORMING)	1/8W 1K ohm J	
RCR8182J	RESISTOR (FORMING)	1/8W 1.8K ohm J	
RCR822J	RESISTOR (FORMING)	1/8W 2.2K ohm J	
RCR8392J	RESISTOR (FORMING)	1/8W 3.9K ohm J	
RCR8472J	RESISTOR (FORMING)	1/8W 4.7K ohm J	

REF. NO.	DESCRIPTION		PART NO.
RCR8561J	RESISTOR (FORMING)	1/8W 560 ohm J	
RCR8103J	RESISTOR (FORMING)	1/8W 10K ohm J	
RCR8563J	RESISTOR (FORMING)	1/8W 56K ohm J	
RCR8683J	RESISTOR (FORMING)	1/8W 68K ohm J	
RC56684J	RESISTOR (STRAIGHT)	1/16W 680K ohm J	
JCWG267I	PIN CONNECTOR 5264N	7PIN IW	
JCHF60EB	PIN CONNECTOR 5264N	6PIN W/LEAD	
WTOR006	TIN WIRE (JUMPER)	0.50 6m/m	
WLUWT070	LEAD WIRE 0.12x7	WHITE 70m/m	
WLURD070	LEAD WIRE 0.12x7	RED 70m/m	

■ EXPLODED VIEW (Tape mechanism)

○ TN-717



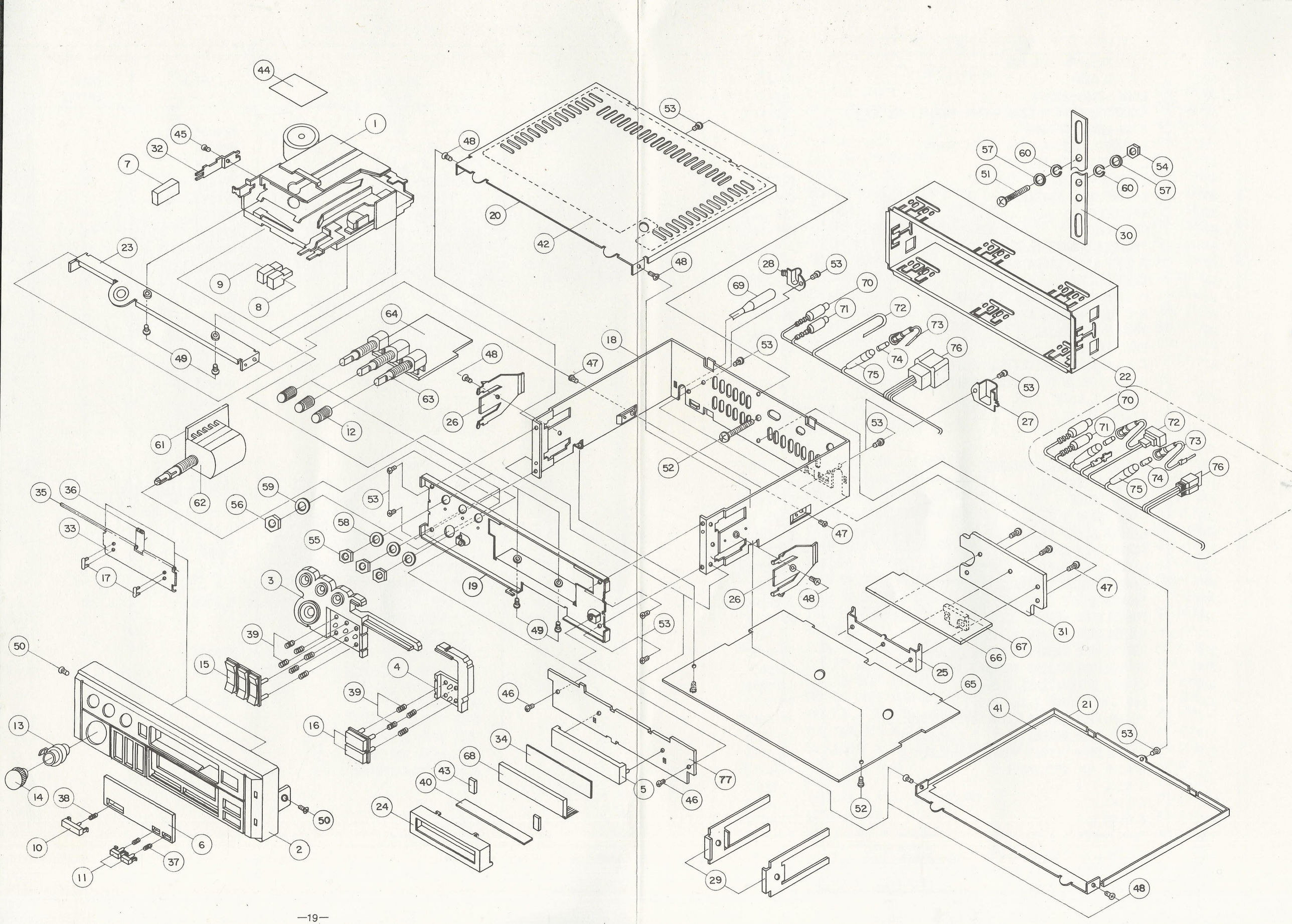
REF NO	DESCRIPTION	PART NO
1	CHASSIS ASS'Y	CMK-1426
2	MOTOR ASS'Y	CTT-0549
3	MAIN GEAR	MR-4167
5	CHANGE PLATE	CMK-1427
6	HEAD SWITCH SPRING	SB-2023
7	MAIN PLATE (Z)	PL-7344
8	PINCH ROLLER ARM (F) ASS'Y	CMK-1428
9	TRIGGER & STOP ARM ACTUATOR	PL-7345
10	F.R(FF.REW) LOCK PLATE(B)	PL-7346
11	F.R(FF.REW) LOCK SPRING	SC-2070
14	CENTER PULLY (B)	MP-4050-1
15	CONTROL SPRING (C)	SC-2071
16	COLLAR SCREW	Z-90002
20	PRINT BASE ASS'Y (H)	CRP-1167
21	TRIGGER & STOP ARM ACTUATOR SPRI	SC-2072
25	PINCH ROLLER ARM (R) ASS'Y	CMK-1429
26	PULL PLATE ASS'Y	PL-7347
29	HEAD PLATE ROLLER (M)	MP-4341
30	HEAD PANEL ASS'Y	CMK-1430
31	TAPE GUIDE	MR-4051
32	HEAD SPRING PLATE	PL-7080
33	HEAD	AHP-0308
34	PINCH ROLLER ACTUATOR	PL-7081
35	PINCH ROLLER SPRING	SB-2029
36	HEAD PANEL SPRING (M2)	SC-2073
37	FLYWHEEL CAPSTAN ASS'Y	AA-1230
39	MAIN BELT	MP-4342-1
40	MAIN GEAR PLATE ASS'Y	CMK-1431
45	E.D(END DETECTOR) PLATER (F)	MR-4062
48	TAKE UP GEAR PLATE (F) ASS'Y	CMK-1432
49	TAKE UP GEAR PLATE (R) ASS'Y	CMK-1433
50	TAKE UP GEAR PLATE SPRING (C)	SC-2074
51	FF GEAR	MP-4053
52	F.T(FF & TAKE UP) GEAR	MP-4055
53	F.R(FF.REW) CLUTCH ASS'Y	CMM-0503
54	DEVICE GEAR (UPPER)	MR-4064
55	DEVICE GEAR (LOWER)	MR-4065
56	DEVICE & TRIGGER STOP ARM GEAR	MR-4056
58	END SENSING PLATE (C)	MP-4343-1
59	TRIGGER & STOP ARM ACTUATOR GEAR	MR-4096
60	TURN OVER GEAR	MR-4058
61	STOP ARM	MR-4067
62	TRIGGER & STOP ARM SPRING (C)	SC-2075
63	TRIGGER ARM	MP-4345
64	END DETECTOR SPRING	SB-2034
65	END DETECTOR PIECE	MR-4069
66	TAKE UP REEL SUB ASS'Y	AA-1231
67	TURN OVER GEAR COLLAR	CC-3059

REF NO	DESCRIPTION	PART NO
68	TAKE UP REEL SUB ASS'Y	AA-1232
69	CENTER GEAR	MP-4344
82	PUSH LEVER ASS'Y	CMK-1434
83	CASSETTE CASE & HEAD PANEL PUSH PLATE ASS'Y	CMK-1435
84	PUSH LEVER SPRING	SB-2039
85	CASSETTE CASE & HEAD PANEL SPRIN	SC-2076
86	LIFT UP LEVER SPRING	SB-2041
87	LIFT UP LEVER (B)	PL-7089
88	F.R(FF.REW) BRACKET	CMK-1436
89	REW LEVER	CMK-1437
90	FF LEVER	CMK-1438
91	PROGRAM CHANGE PLATE	PL-7348
92	F.R(FF.REW) LEVER SPRING	SC-2077
93	CASE LIFTER	PL-7086
94	P.E(PACK EJECT) PLATE ASS'Y	CMK-1439
95	P.E(PACK EJECT) SPRING	SB-2043
96	TURN OVER SPRING	SC-2044
97	PACK SLIDER	MR-4060
98	C.D(CASSETTE DETECTING) PLATE	PL-7087
99	C.D(CASSETTE DETECTING) SPRING	SB-2045
100	CASSETTE CASE	PL-7088
101	TIMING PLATE	PL-7122
102	SPRING	SB-2052
103	CUSHION RUBBER	MR-4061
104	SKELETON SWITCH BRACKET	PL-7349
105	SKELETON SWITCH	ESS-0541
109	EJECT LEVER	PL-7123
202	TAMS SCREW 2.0x5	Z-93205
204	CAMERA SCREW (FLAT) 2.0x2.5	Z-2225
205	SCREW (±) SPECIAL 2.0x4	Z-6204S
206	CAMERA SCREW (TAPPING) S2.0x3	Z-86203
208	CAMERA SCREW (FLAT) 2.0x3.5	Z-2235
209	CAMERA SCREW (TAPPING) S2.0x4	Z-862042
210	POLYSLIDER WASHER (CUT) 1.2x3.0x0.25	PN-1008
211	POLYSLIDER WASHER 2.1x5.0x0.13	PN-1009
212	POLYSLIDER WASHER (CUT) 1.6x3.4x0.3	PN-1010
213	POLYSLIDER WASHER (CUT) 2.1x5.0x0.4	PN-1011
214	CAMERA SCREW(TAMS) 2.6x4.5	Z-932645
215	LUMILAR WASHER 3.1x4.8x0.1	PN-1012
216	POLYSLIDER WASHER (CUT) 0.85x2.8x0.25	PN-1053
217	POLYSLIDER WASHER (CUT) 3.0x6.0x0.4	PN-1106
218	POLYSLIDER WASHER (CUT) 1.6x3.8x0.3	PN-1025
221	E RING (B) SPECIAL 1.5	Y-30153S
222	E RING 1.2	Y-30123
223	E RING 1.5	Y-30153
224	E RING 2.0	Y-30204
225	TAMS SCREW 2.0x8	Z-93208
227	POLYSLIDER WASHER (CUT) 1.5x3.2x0.5	PN-1107
228	POLYSLIDER WASHER 1.8x3.2x0.2	PN-1108
229	CAMERA SCREW 2.6x2.5	Z-62625S

■ PART LIST – CABINET & CHASSIS

REF NO	DESCRIPTION	PART NO	REMARKS (Q'TY)
1	DECK	AA*004	1
2	NOSE PIECE	MP*015	1
3	REFLECTOR-(L)	MP*016	1
4	REFLECTOR-(R)	MP*017	1
5	LCD REFLECTOR	MP*018	1
6	DIAL WINDOW	MP*019	1
7	EJECT KNOB	MP*020	1
8	FF KNOB	MP*021	1
9	REW KNOB	MP*022	1
10	BAND KNOB	MP*023	1
11	PUSH KNOB	MP*024	2
12	V/R KNOB	MP*025	3
13	OUTER KNOB	MP*026	1
14	INNER KNOB	MP*027	1
15	MEMORY KNOB (1,4)(2,5)(3,6)	MP*028,29,30	3
16	MEMORY KNOB (LO,MTL)(<,>)	MP*031,32	2
17	DOOR BUMP	MP*033	2
18	MAIN CHASSIS		1
19	FRONT CHASSIS		1
20	TOP COVER		1
21	BOTTOM COVER		1
22	CASE SET	PL*011	1
23	DECK BRACKET		1
24	L.C.D. BRACKET		1
25	I.C. MOUNT BRACKET		1
26	CLAMP SPRING	AA*007	2
27	CORD HOLDER-PWR		1
28	CORD HOLDER-ANT		1
29	SET KEY	PL*006	2
30	REAR MOUNT STRAP		1
31	HEAT SINK		1
32	EJECT LEVER	PL*007	1
33	TAPE DOOR	PL*008	1
34	LCD FILTER		1
35	DOOR SHAFT	CC*002	1
36	DOOR SPRING	SC*003	1
37	PUSH KNOB SPRING	SC*004	2
38	BAND KNOB SPRING	SC*009	1
39	MEMORY KNOB SPRING	SC*005	10
40	PVC PLATE		1
41	FIBER		1
42	HIMELON		1
43	RUBBER SPONGE		2
44	FIBER		1
45	MACHINE SCREW(PH) 2.6x3		1

REF NO	DESCRIPTION	PART NO	REMARKS (Q'TY)
46	MACHINE SCREW(FH) 2.6x4		2
47	MACHINE SCREW (FH) 3x8		4
48	MACHINE SCREW(FH) 2.6x5		6
49	MACHINE SCREW(BH) 3x4		4
50	MACHINE SCREW(FH) 3x5		2
51	MACHINE SCREW(BH) 5x30		1
52	MACHINE SCREW(BH) 5x20		1
53	MACHINE SCREW(PH) T2 3x5		10
54	NUT (M5)		1
55	NUT (M7)	Z*004	3
56	NUT (M9)	Z*006	1
57	PLAIN WASHER (M5)		2
58	PLAIN WASHER (M7)	Z*005	3
59	PLAIN WASHER (M9)	Z*007	1
60	SPRING WASHER (M5)		2
61	SWITCH PCB		1
62	VOLUME PCB	ECRV*004	1
63	TONE	ECRV*005	3
64	TONE PCB		1
65	MAIN PCB		1
66	POWER PCB		1
67	POWER IC		2
68	LCD	EIX*002	1
69	ANTENNA JACK	AH-294	1
70	LINE OUT (R) (RED)		1
71	LINE OUT (L) (WHITE)	AH-185	
72	POWER ANTENNA		1
73	BACK UP		1
74	FUSE		1
75	FUSE HOLDER		2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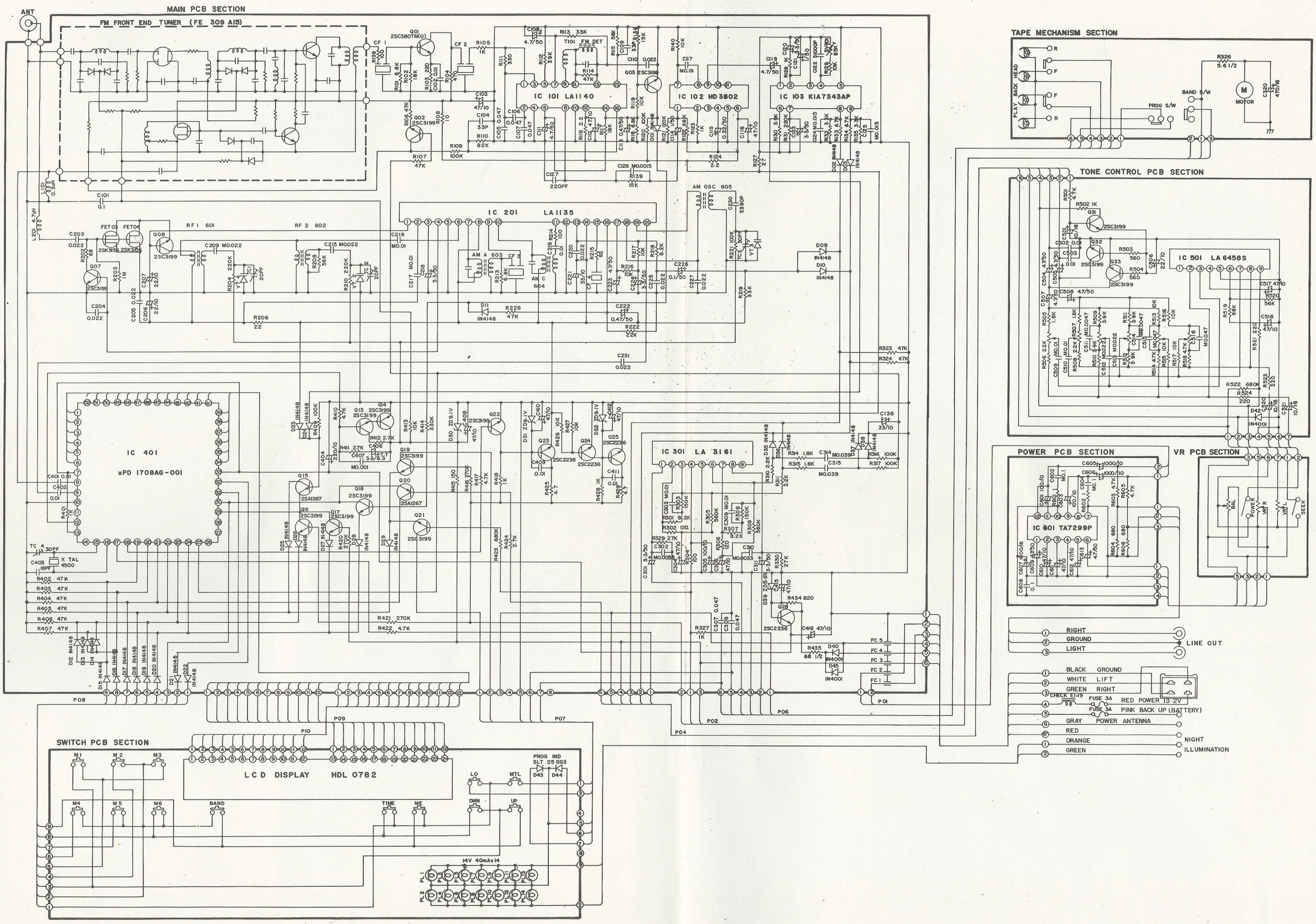
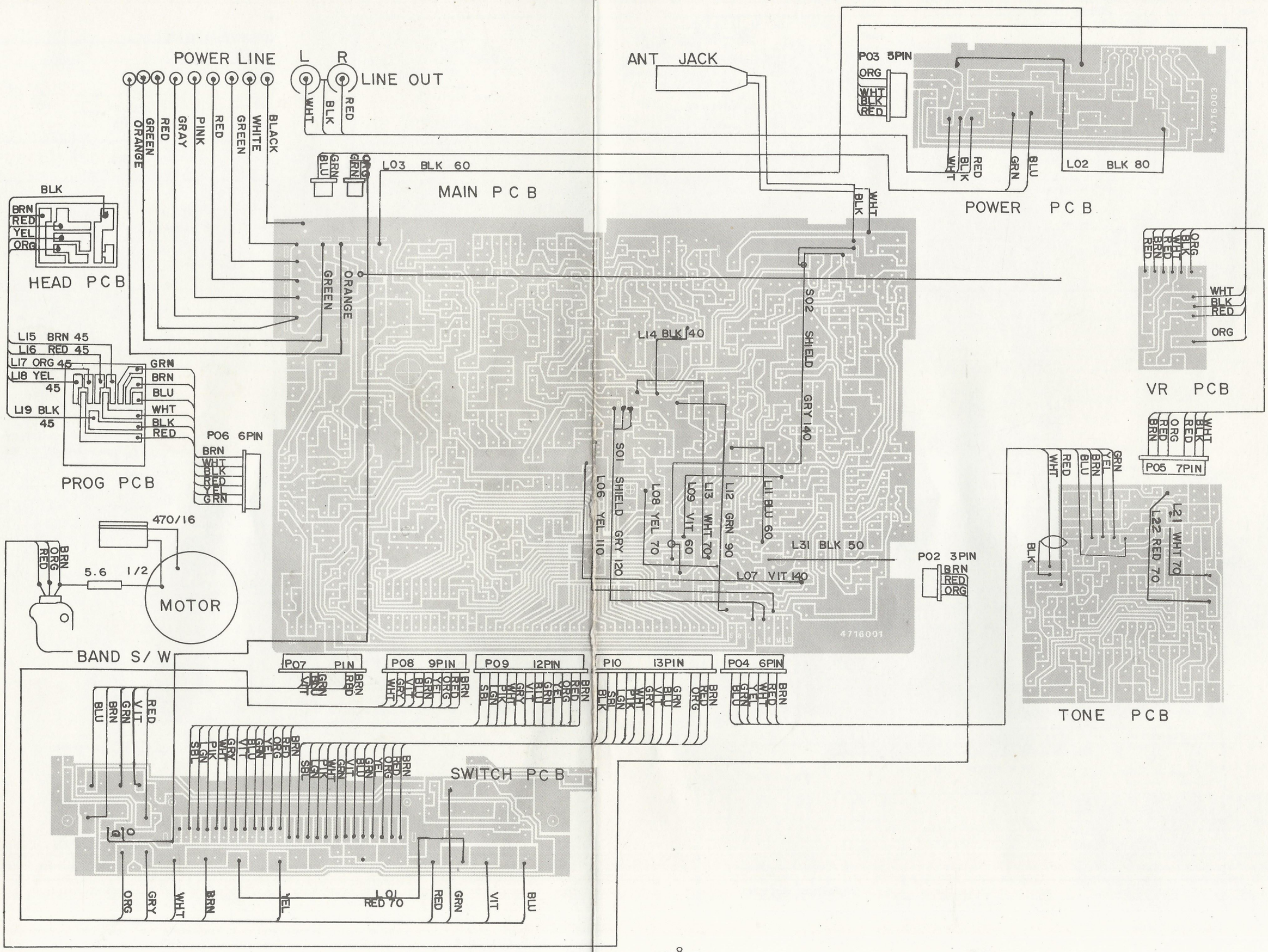

MAIN PCB SECTION
FM FRONT END TUNER (FE 309 A15)
IC 101 LA1140
IC 102 HD3802
IC 103 KIA7343AP
IC 201 LA1135
IC 401 uPD 1708AG-001
IC 301 LA 3161
TAPE MECHANISM SECTION
TONE CONTROL PCB SECTION
IC 501 LA 6458S
POWER PCB SECTION
IC 601 TA7299P
VR PCB SECTION
SWITCH PCB SECTION
LCD DISPLAY HDL 0782
RIGHT
GROUND
LIGHT
LINE OUT
BLACK GROUND
WHITE LIFT
GREEN RIGHT
RED POWER 13.2V
PINK BACK UP (BATTERY)
GRAY POWER ANTENNA
RED
ORANGE
GREEN
NIGHT ILLUMINATION


POWER LINE
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LINE OUT
WHT
BLK
RED
ORANGE
GREEN
RED
GRAY
PINK
RED
GREEN
WHITE
BLACK
ANT JACK
P03 5PIN
ORG
WHT
BLK
RED
L02 BLK 80
POWER PCB
L03 BLK 60
MAIN PCB
HEAD PCB
BLK
BRN
RED
YEL
ORG
L15 BRN 45
L16 RED 45
L17 ORG 45
L18 YEL 45
L19 BLK 45
GRN
BRN
BLU
WHT
BLK
RED
PROG PCB
P06 6PIN
BRN
WHT
BLK
RED
YEL
GRN
470/16
5.6
1/2
MOTOR
BAND S/W
L14 BLK 40
S02 SHIELD GRY 140
S01 SHIELD GRY 120
L06 YEL 110
L08 YEL 70
L09 VIT 60
L13 WHT 70
L12 GRN 90
L11 BLU 60
L31 BLK 50
L07 VIT 140
P02 3PIN
BRN
RED
ORG
VR PCB
WHT
BLK
RED
ORG
P05 7PIN
L21 WHT 70
L22 RED 70
TONE PCB
P07 PIN
P08 9PIN
P09 12PIN
P10 13PIN
P04 6PIN
SWITCH PCB
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ORG
GRY
WHT
BRN
YEL
RED
GRN
VIT
BLU