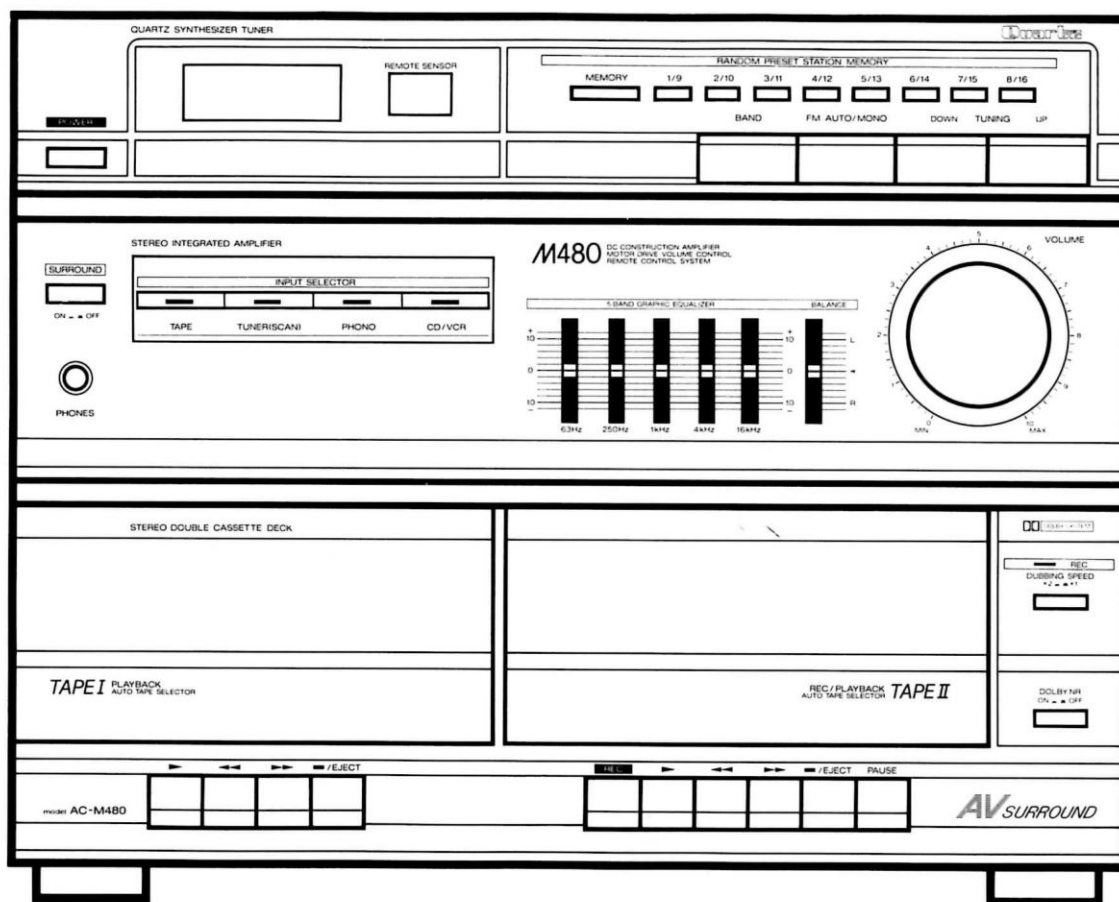


AKAI SERVICE MANUAL



MIDI COMPONENT STEREO SYSTEM

MODEL **AC-M480L**

ABBREVIATIONS FOR SERVICE MANUAL (CASSETTE)

Abbreviation	Explanation	Abbreviation	Explanation
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Tuning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPsTan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Process- ing	REC	RECOrd (RECOding)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETECTOR	SEC	SECOnd
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQualizer	SEPP	Single Ended Push Pull
FF(or F.FWD)	Fast Forward	SIG	SIGnal
FLD	FLUorescent Display	SPECT	SPECTrum
FREQ	FREQUENCY	STD	STANdard
FWD	FORWARD	SW	SWitch
GND	GROUNd	SYSCON	SYStem CONtrol
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLUME
L	Low	VOLT	VOLTage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitting Diode	X'TAL	cysTAL
MEMO	MEMOry	X1	Normal speed
MICOM	MIcroCOMputer	X2	Dubble speed

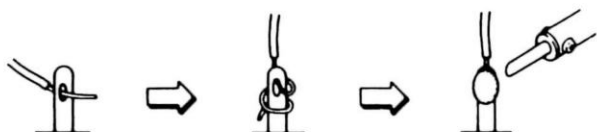
ABBREVIATIONS (TUNER)

Abbreviation	Explanation	Abbreviation	Explanation
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	Micro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi PleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLock	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMParator	PCB	Printed Circuit Board
DET	DETECT (DETECTOR)	PLL	Phase Locked Loop
FLD		Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQUENCY	REF	REFerence
GND	GrouND	REG	REGulator
H	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch : Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emitting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the Δ (*) symbol are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
These must also be replaced only with specified replacements.
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

PRECAUTIONS FOR LITHIUM BATTERY

The lithium battery explode when heated excessively.

[OBSERVE THE FOLLOWING WHEN REPLACING]

- Replace with the same make and type only
- Use soldering iron in "recommended way" only.
- Place battery in correct polarity.
- Do not short the terminals.
- Do not recharge battery.
- Do not dispose of battery in fire.



[DANGER]



[RECOMMENDED WAY]

★ INFORMATION

SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

SPECIFICATIONS

AMPLIFIER SECTION Power output By DIN (1 kHz 8 ohms) .. 42 W+42 W Music power 190 W Power band width 10 Hz~60 kHz/0.5% S/N (IHF-A) PHONO MM 72 dB TUNER etc. 90 dB Channel separation 55 dB Damping factor 30 Required speaker impedance 8~16 ohms Input sensitivity/impedance PHONO MM 4.5 mV/47 kohms CD/VCR 300 mV/47 kohms Frequency response PHONO ± 0.5 dB TUNER etc. 5 Hz~50 kHz (-3 dB) Graphec equalizer 5 band Center frequency 63 Hz, 250Hz, 1 kHz, 4 kHz, 16kHz Adjust range ± 8 dB FM SECTION Tuning frequency range . 87.5 MHz~108.0 MHz Usable sensitivity 12.7 dBf Quieting sensitivity (S/N=50dB) 19.2 dBf (Mono)/40.2 dBf (Stereo) Capture radio 2.0 dB Selectivity (400 kHz) 60 dB Image rejection ratio 50 dB IF rejection ratio 50 dB Suprious rejection ratio .. 80 dB AM suppression 50 dB Sub carrier suppression ratio 55 dB S/N 70 dB (Mono)/60 dB (Stereo) T.H.D 0.2 % (Mono)/0.4 % (Stereo) Stereo separation (1 kHz) 40 dB Frequency response 30 Hz ~ 15 kHz ± 1.0 dB	AM SECTION MW band Tuning frequency range . 531~1602 kHz Usable sensitivity (Loop antenna) 300μV Selectivity 25 dB Image rejection ratio 40 dB IF rejection ratio 45 dB S/N 40 dB T.H.D 1.0 % LW band Tuning frequency range . 144~351 kHz Usable sensitivity (Loop antenna) 800μV Selectivity 30 dB Image rejection ratio 40 dB IF rejection ratio 45 dB S/N 35 dB T.H.D 2.0 % DECK SECTION Heads TAPE I HD head for playback $\times 1$ TAPE II recording/playback $\times 1$ Erase head $\times 1$ Motors TAPE I DC Motor $\times 1$ TAPE II DC Motor $\times 1$ Frequency response Normal 30 Hz ~ 14 kHz ± 3 dB S/N 56 dB T.H.D 0.8 % Power requirements 220 V, 50 Hz for Europe except UK 240 V, 50 Hz for UK Dimensions 350(W) $\times$ 268(H) $\times$ 370 (D)mm Weights 7.7 kg Standard accessories Remo-con transmitter $\times 1$ Batteries for remocon $\times 2$ FM antenna $\times 1$ FM antenna Plug $\times 1$ AM loop antenna $\times 1$ Operator's manual $\times 1$
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* For improvement purposes, specifications and design are subject to change without notice.

* Noise reduction manufactured under license from dolby laboratories licensing corporation.

“DOLBY” and  symbol are trade marks of dolby licensing corporation.

I. CONTROLS

1-1. FRONT PANEL

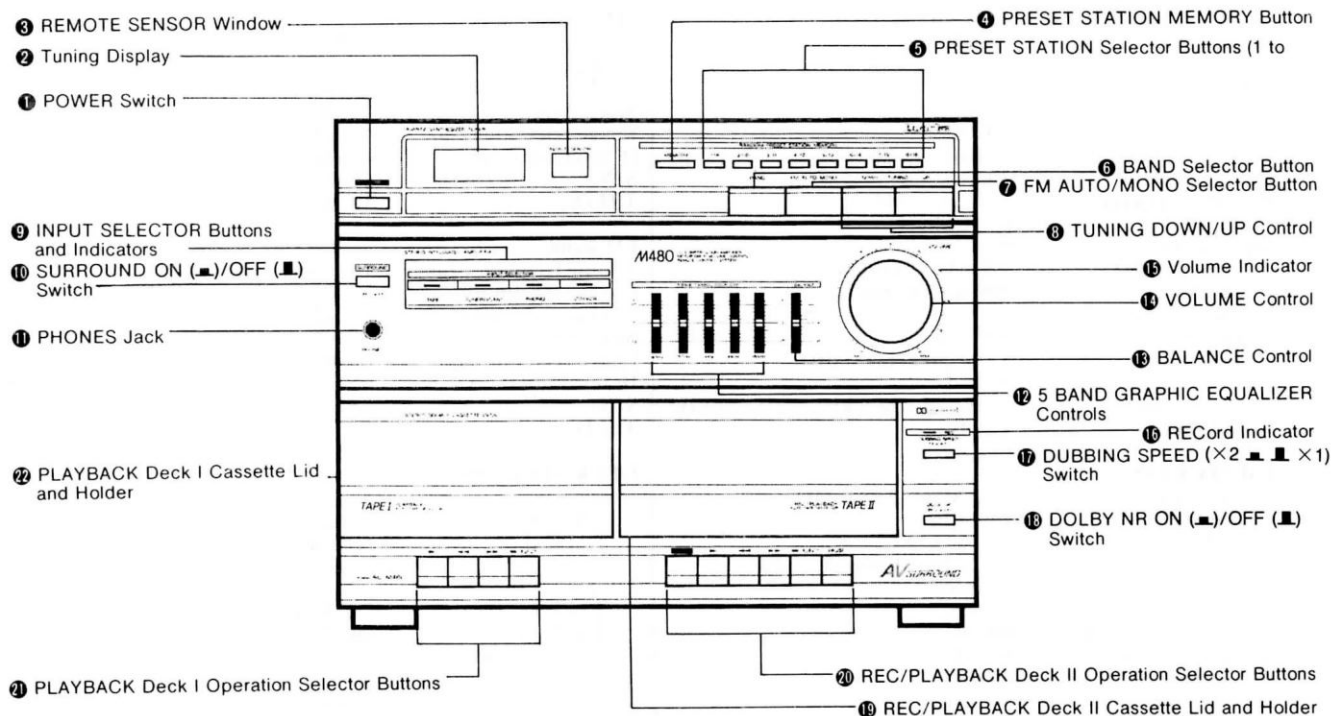


Fig. 1-1 Controls on the FRONT PANEL

- 1 POWER Switch
Depress to turn the System on.
- 2 Tuning Display
Shows the tuning information.
- 3 REMOTE SENSOR Window
Receives signals of the WIRELESS REMOTE CONTROL UNIT to control the Deck Receiver.
- 4 PRESET STATION MEMORY Button
Used to enter a preset station.
- 5 PRESET STATION Selector Buttons (1 to 16)
Used to enter preset stations and tune in entered stations.
- 6 BAND Selector Button
Depress to select the MW, LW or FM band.
- 7 FM AUTO/MONO Selector Button
Depress to select the FM AUTO or MONO mode.
- 8 TUNING DOWN/UP Control
Depress to tune in a station manually.
- 9 INPUT SELECTOR Buttons and Indicators TAPE, TUNER (SCAN), PHONO and CD/VCR
Depress to select an audio source you want to listen to.
- 10 SURROUND ON (L) /OFF (R) Switch
Depress for the surround effect (for use with optional Surround Speakers, Model AE-S91).
- 11 PHONES Jack
A pair of stereo headphones (8 ohms) can be connected here for private listening.
- 12 5 BAND GRAPHIC EQUALIZER Controls 63, 250, 1K, 4K and 16K
Used to finely adjust the frequency levels between 63 Hz and 16 kHz during playback and recording operations (except tape dubbing.)
- 13 BALANCE Control
Used to adjust the left and right channel balance.
- 14 VOLUME Control
Used to adjust the volume level. Can be moved using the WIRELESS REMOTE CONTROL UNIT.
- 15 Volume Indicator
Shows the audio volume level. Goes off for a few seconds when the POWER Switch is turned on or any INPUT SELECTOR Button is pressed. Also, turned off by the WIRELESS REMOTE CONTROL UNIT MUTE Button, with sound muted.
- 16 REC (record) Indicator
Shows that the REC/PLAYBACK Deck II is in the recording mode.
- 17 DUBBING SPEED (x2 L x1 R) Switch
Depress to select the tape dubbing speed.
- 18 DOLBY NR ON (L)/OFF (R) Switch
Depress to turn on or off the Dolby NR system.
- 19 REC/PLAYBACK Deck II Cassette Lid and Holder
Used to load a tape for recording and playback in the REC/PLAYBACK Deck II.
- 20 REC/PLAYBACK Deck II Operation Selector REC, ▶, ◀, ▶▶, =/EJECT and PAUSE
Depress to record, play, rewind, fast forward, stop and eject, or pause a tape in Deck II.
- 21 PLAYBACK Deck I Operation Selector ▶, ◀, ▶▶, =/EJECT
Depress to play, rewind, fast forward, or stop and eject a tape in Deck I.
- 22 PLAYBACK Deck I Cassette Lid and Holder
Used to load a tape for playback only in the PLAYBACK Deck I.

1-2. REAR PANEL

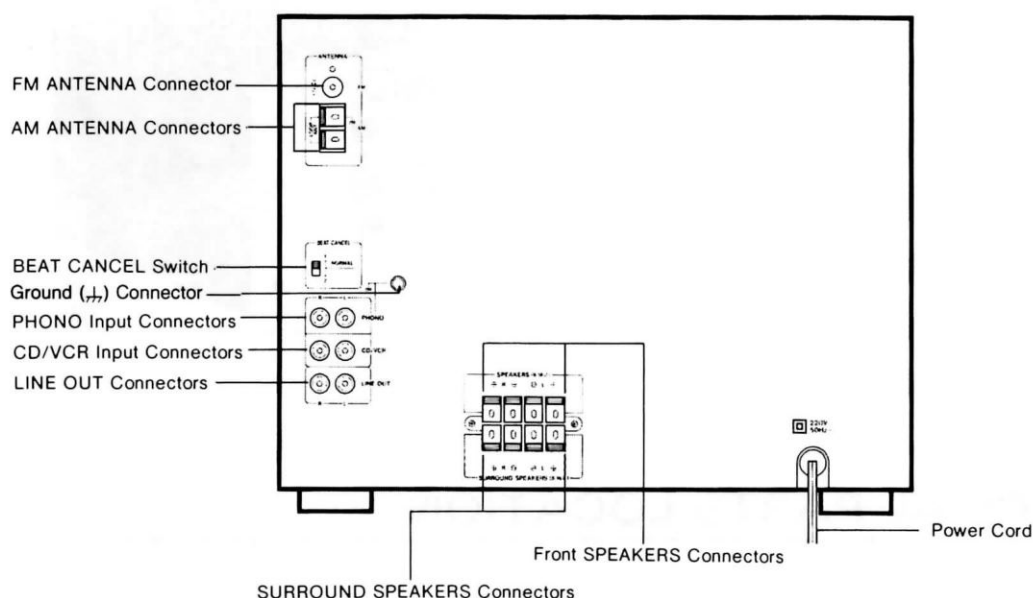


Fig. 1-2 Controls on the REAR PANEL

1-3. WIRELESS REMOTE CONTROL UNIT

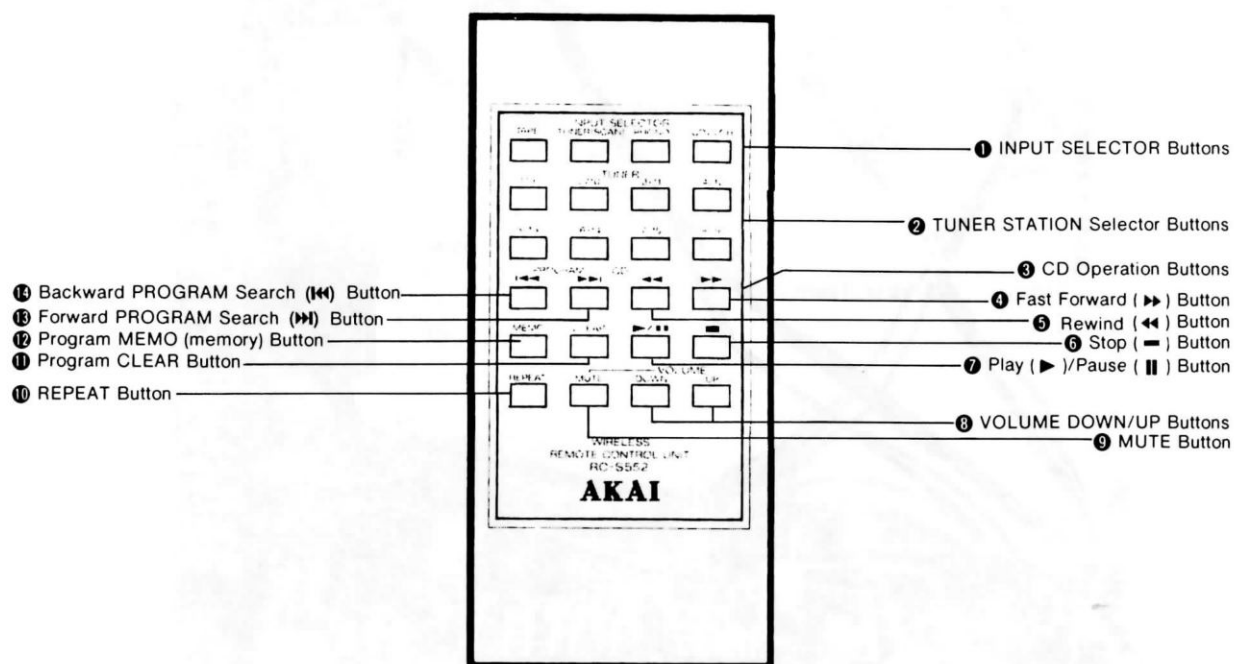
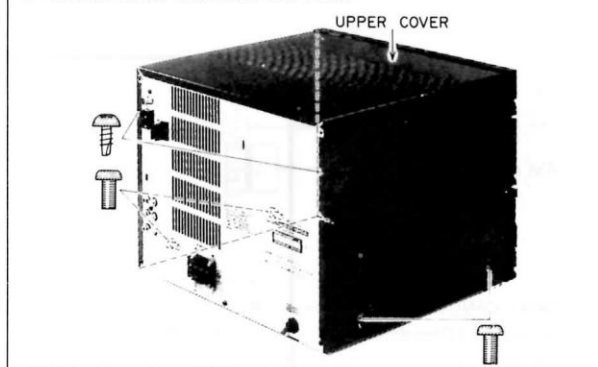


Fig. 1-3 Controls on the WIRELESS REMOTE CONTROL UNIT

II. DISASSEMBLY

In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs.
Reassemble in reverse order.

1. Removal of UPPER COVER



III. PRINCIPAL PARTS LOCATION

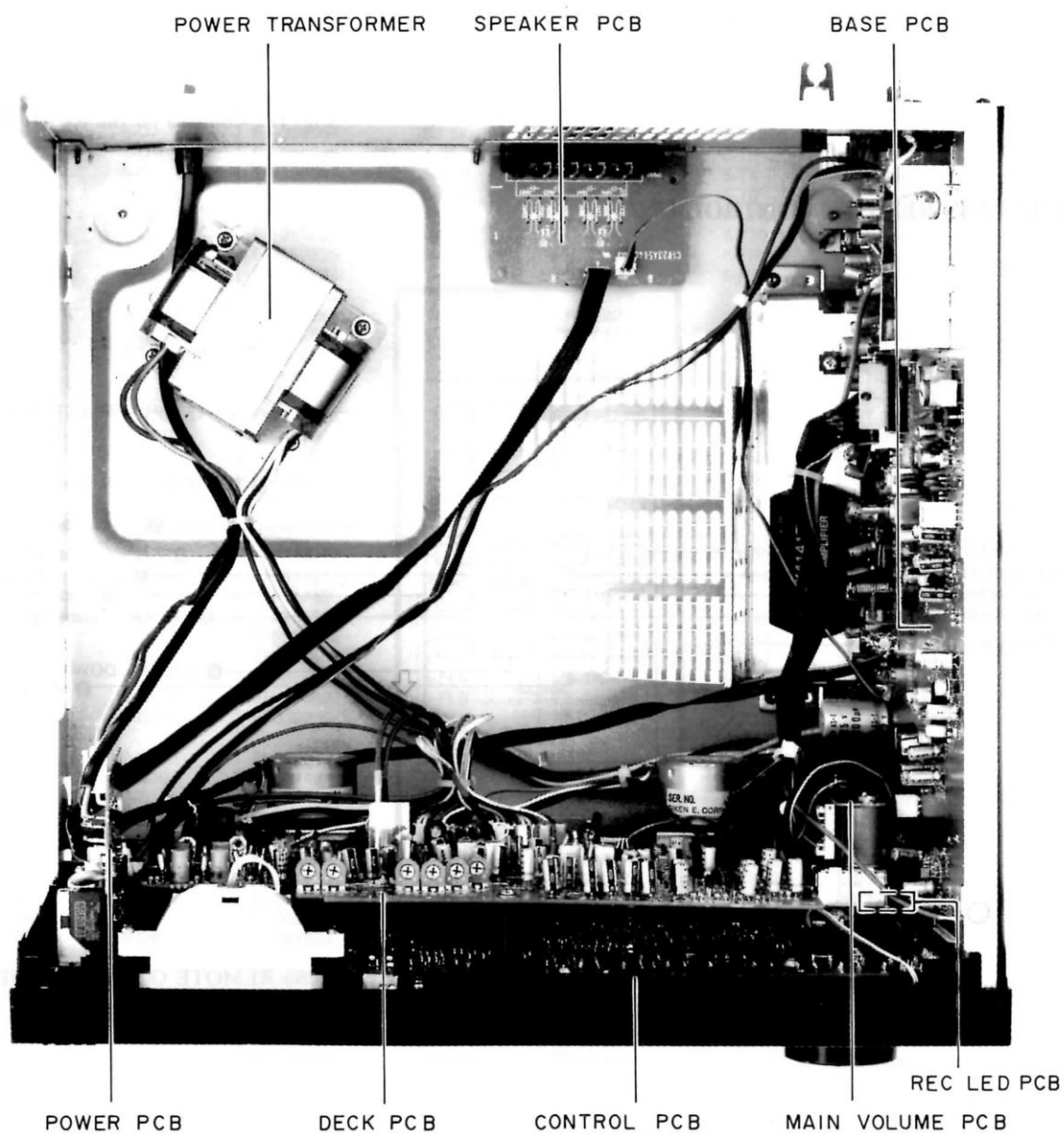


Fig. 3-1

IV. REMOVAL OF THE MECHANICAL BLOCK

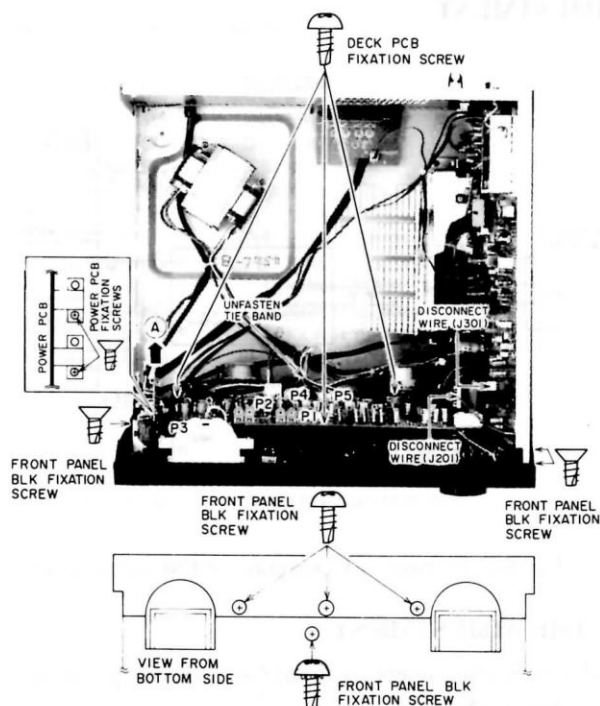


Fig. 4-1

- 1) Be sure that the AC Power Cord is disconnected.
- 2) Disconnect the connectors (P1 to P5) on the DECK PCB and remove three DECK PCB FIXATION SCREWS, then remove the DECK PCB from Front panel BLK.
- 3) Disconnect the connectors J301 (BASE PCB) and J201 (MAIN VOLUME PCB), then resold a jumper wire between MAIN VOLUME PCB and BASE PCB.

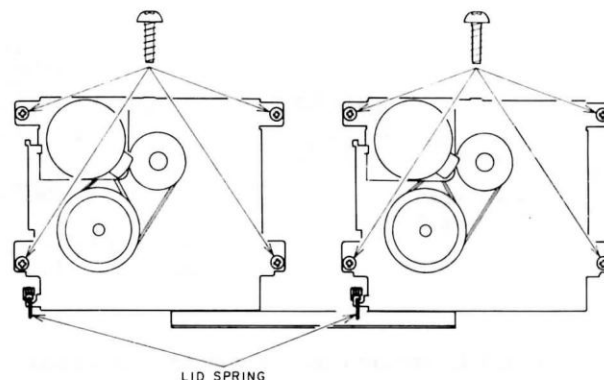


Fig. 4-2

- 4) Remove POWER PCB FIXATION SCREWS and pull out the POWER PCB to the arrow (A) direction.
- 5) Remove Seven FRONT PANEL BLK FIXATION SCREWS, then pull out the FRONT PANEL BLOCK and remove the REC LED PCB from the FRONT PANEL BLOCK.
- 6) Remove the LID SPRINGS and SCREWS (A) to (H) (Refer to Fig 4-2). Then remove the MECHANICAL BLOCK.

V. MECHANICAL ADJUSTMENT

5-1. WINDING TORQUE MEASUREMENT IN EACH MODE

Set the cassette torque meter (AJ-751179) and measure the torque in each mode. For FAST FORWARD and REWIND, measure at the end of tape when tape has stopped running.

PLAY mode

Take up torque : 35 to 75 g-cm
Back tension torque : 1 to 6 g-cm

FAST FORWARD and REWIND mode

Take up torque : 60 to 160 g-cm

5-2. HEAD AZIMUTH ALIGNMENT ADJUSTMENT

- 1) Connect the AC milli-voltmeter to LINE OUT of both channels and Connect CH-1 and CH-2 of the oscilloscope to output terminal of both AC milli-voltmeter.

- 2) Playback a 10kHz, -15vu test tape (AT-750778) and Adjust the HEAD AZIMUTH ALIGNMENT SCREW through the HEAD AZIMUTH ALIGNMENT HOLE so that the waveforms on the oscilloscope are in the same phase at the maximum output level.

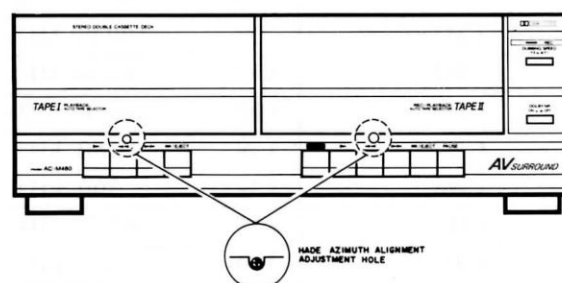


Fig. 5-1 Adjustment points of HEAD Azimuth alignment

VI. ELECTRICAL ADJUSTMENT

6-1. INSTRUMENT CONNECTIONS OF BASE PCB ADJUSTMENT

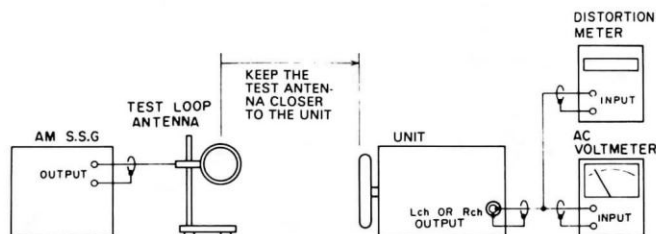


Fig. 6-1 Instrument Connection of AM Adjustment

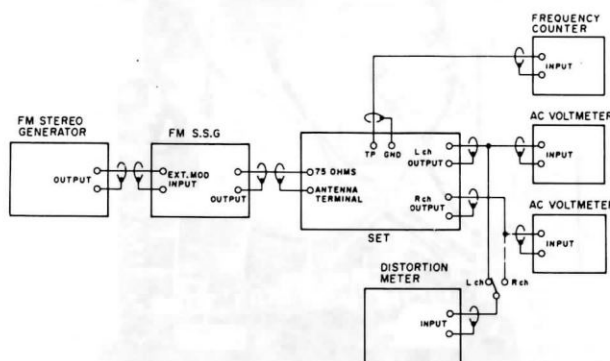


Fig. 6-2 Instrument Connection of FM Adjustment

6-2. HOW TO CALL THE PRESET FREQUENCY FOR THE ADJUSTMENT

Short circuit momentarily two PRESET jumper wires as shown Fig 6-3. Then select required frequency by pushing one of the PRESET station button on the FRONT PANEL according to chart 6-1.

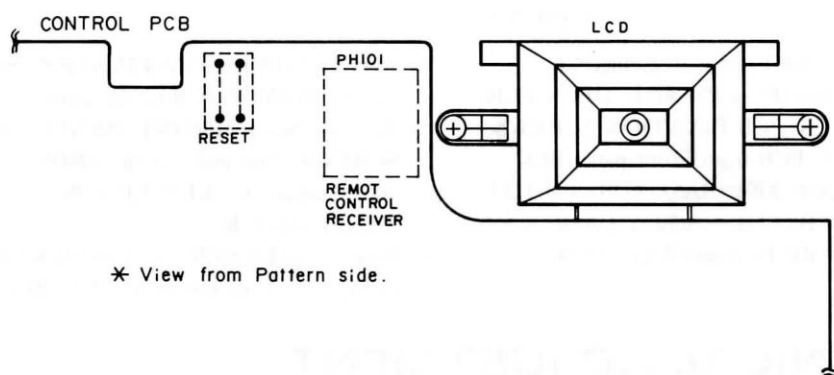


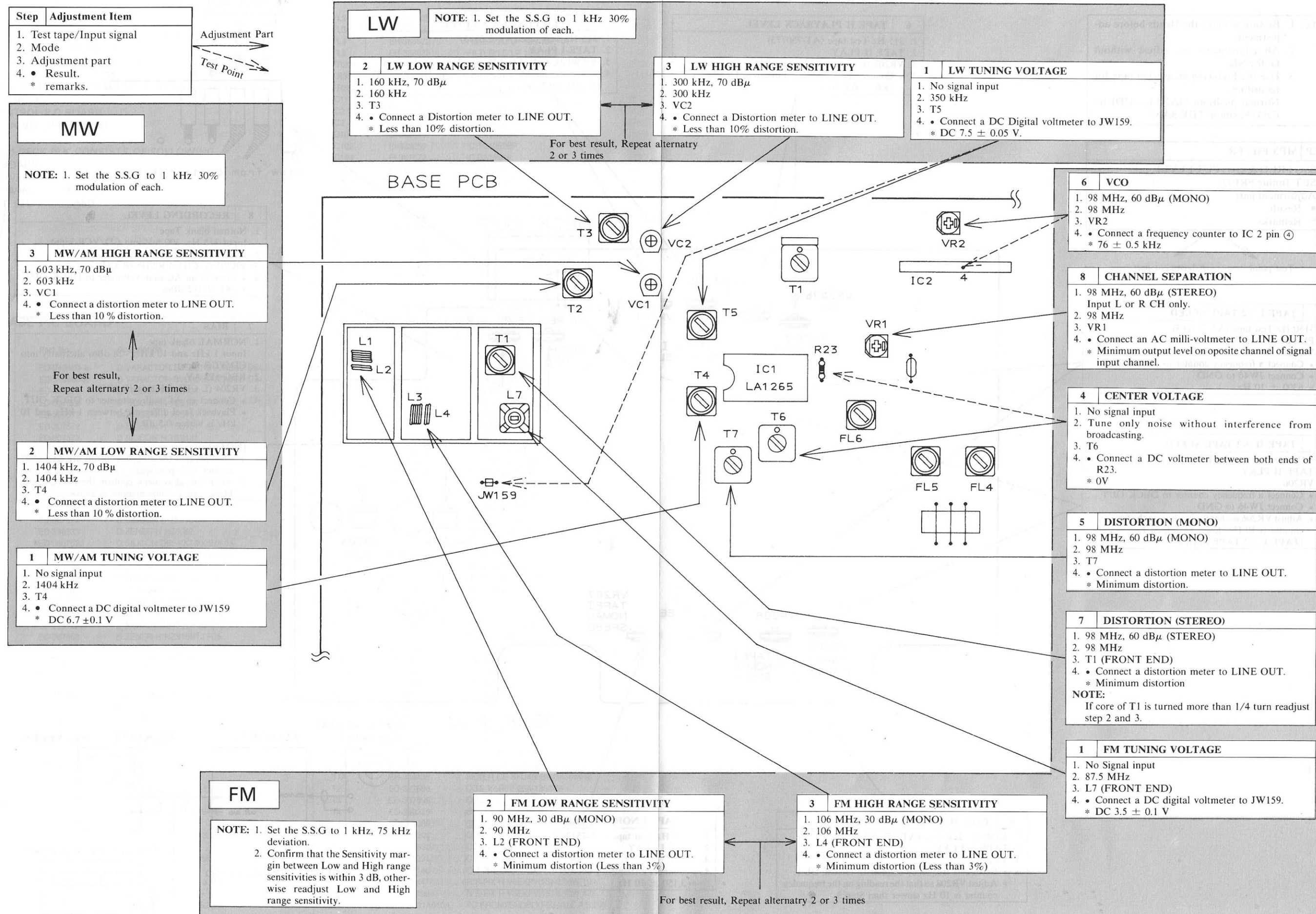
Fig. 6-3

The internal frequency preset memory is set as below.

PRESET STATION		
CH1	FM	88.00 MHz
CH2	FM	90.00 MHz
CH3	FM	98.00 MHz
CH4	FM	100.00 MHz
CH5	FM	106.00 MHz
CH6	FM	108.00 MHz
CH7	LW	160 kHz
CH8	LW	300 kHz
CH9	FM	95.75 MHz
CH10	MW	603 kHz
CH11	MW	999 kHz
CH12	MW	1404 kHz
CH13	MW	801 kHz
CH14	MW	1305 kHz
CH15	LW	200 kHz
CH16	LW	350 kHz

Chart 6-1

6-3. BASE PCB ADJUSTMENT



6-4. DECK PCB ADJUSTMENT

NOTE: 1. Be sure to clean the Heads before adjustment.
2. All adjustments are adjust without Dolby NR.
3. Use the following measuring tape for recording.
Normal position: MAXELL UDI 60
CrO₂ Position: TDK SA60

STEP	MPX FILTER
1.	SSG FREQ & OUTPUT LEVEL
2.	SET Tuning FREQ.
3.	Adjustment part
4.	• Result. * Remarks

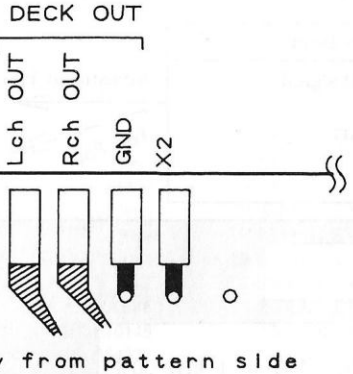
Test point Adjustment part

1	TAPE I ×2 TAPE SPEED
1.	3150 Hz Test tape (AT-751263)
2.	PLAY
3.	VR205
4.	• Connect a frequency counter to DECK OUT. • Connect JW46 to GND * 6300 ± 10 Hz

2	TAPE II ×2 TAPE SPEED
1.	3,150 Hz Test tape (AT-751263)
2.	TAPE II PLAY
3.	VR206
4.	• Connect a frequency counter to DECK OUT. • Connect JW46 to GND * Adjust VR206 so that the reading on the frequency counter is 10 Hz slower than Step 1. (TAPE I ×2 TAPE SPEED).

6	TAPE II PLAYBACK LEVEL
1.	315 Hz Test tape (AT-750773)
2.	TAPE II PLAY
3.	VR202 (L CH), VR202b (R CH)
4.	• Connect an AC milli-voltmeter to DECK OUT. * -8.0 ± 0.2 dBm

5	TAPE I PLAYBACK LEVEL
1.	315 Hz Test tape (AT-750773)
2.	TAPE I PLAY
3.	VR201 (L CH), VR201b (R CH)
4.	• Connect an AC milli-voltmeter to DECK OUT. * -8.0 ± 0.2 dBm

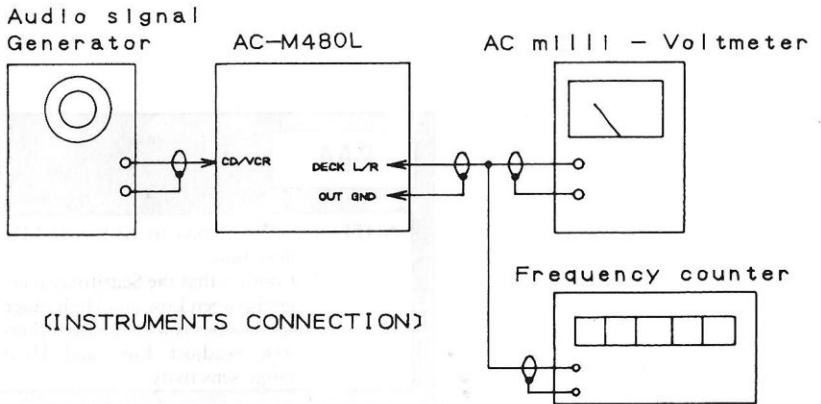
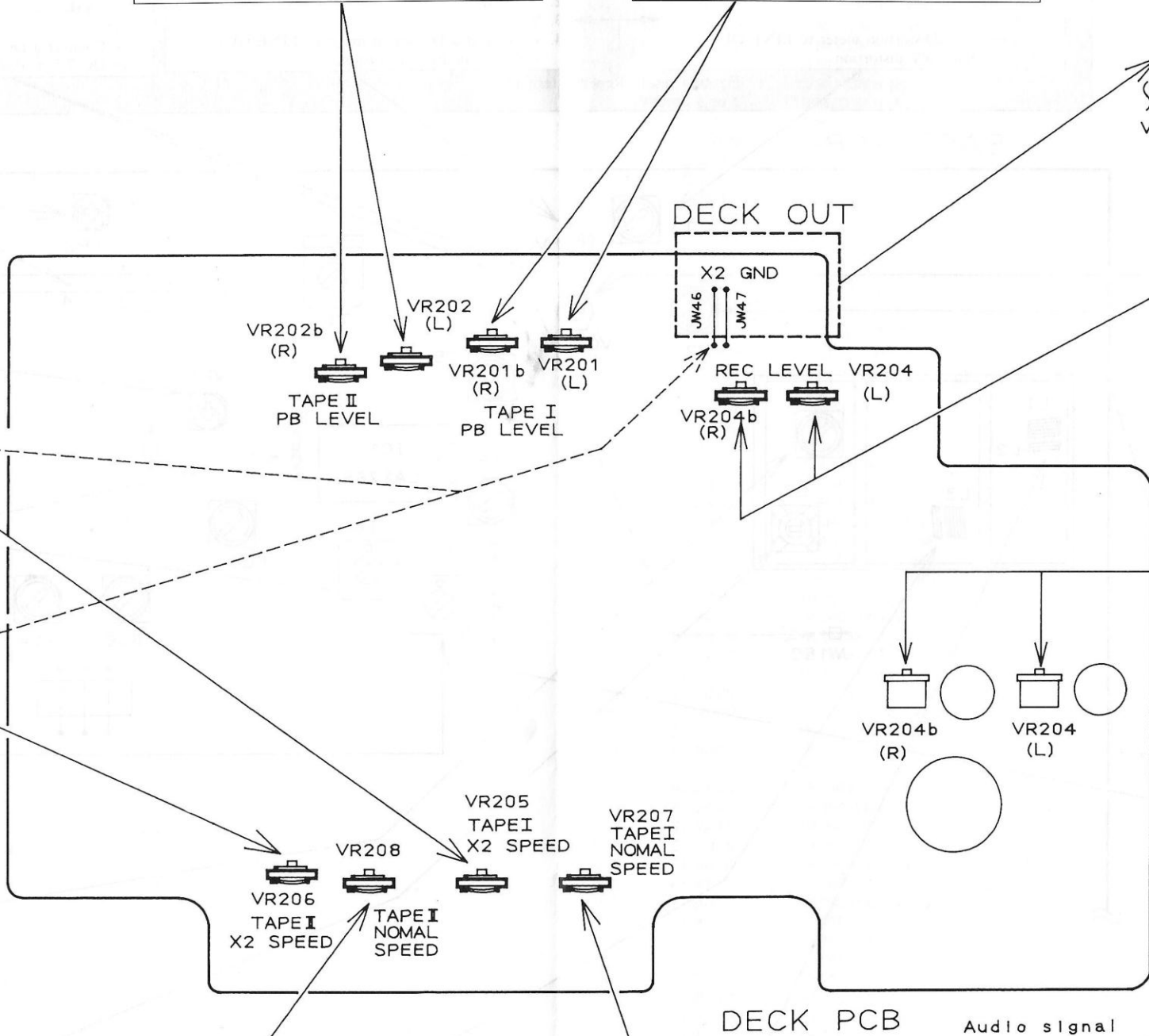


8	RECORDING LEVEL
1.	Normal blank Tape Input 315 Hz, 300 mV into CD/VCR input.
2.	REC→PLAY
3.	VR203 (L CH), VR203b (R CH)
4.	• Connect an AC milli-voltmeter to DECK OUT. * -8.0 ± 0.2 dBm

7	BIAS
1.	NORMAL blank tape. Input 1 kHz and 10 kHz, -28 dBm alternatry into CD/VCR input.
2.	REC→PLAY
3.	VR204 (L CH), VR204b (R CH)
4.	• Connect an AC milli-voltmeter to DECK OUT. * Playback level difference between 1 kHz and 10 kHz is within 0.5 dB.
[NOTE] 1. Confirm that the all G.E controls are set to "0" (center click position). 2. After this adjustment, confirm the Bias by CrO ₂ blank tape as same manner as above.	

4	TAPE II NORMAL TAPE SPEED
1.	3,150 Hz Test tape (AT-751263)
2.	TAPE II PLAY
3.	VR208
4.	• Connect a frequency counter to DECK OUT. * Adjust VR208 so that the reading on the frequency counter is 10 Hz slower than Step 3.

3	TAPE I NORMAL TAPE SPEED
1.	3,150 Hz Test tape (AT-751263)
2.	TAPE I PLAY
3.	VR207
4.	• Connect a frequency counter to DECK OUT. * 3,150 ± 10 Hz



VII. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universa
[C] : CSA (Canada) Area)
[E] : CEE (Europe) [V] : VDE (W. Germany)
[J] : JPN (Japan) [Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠(*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

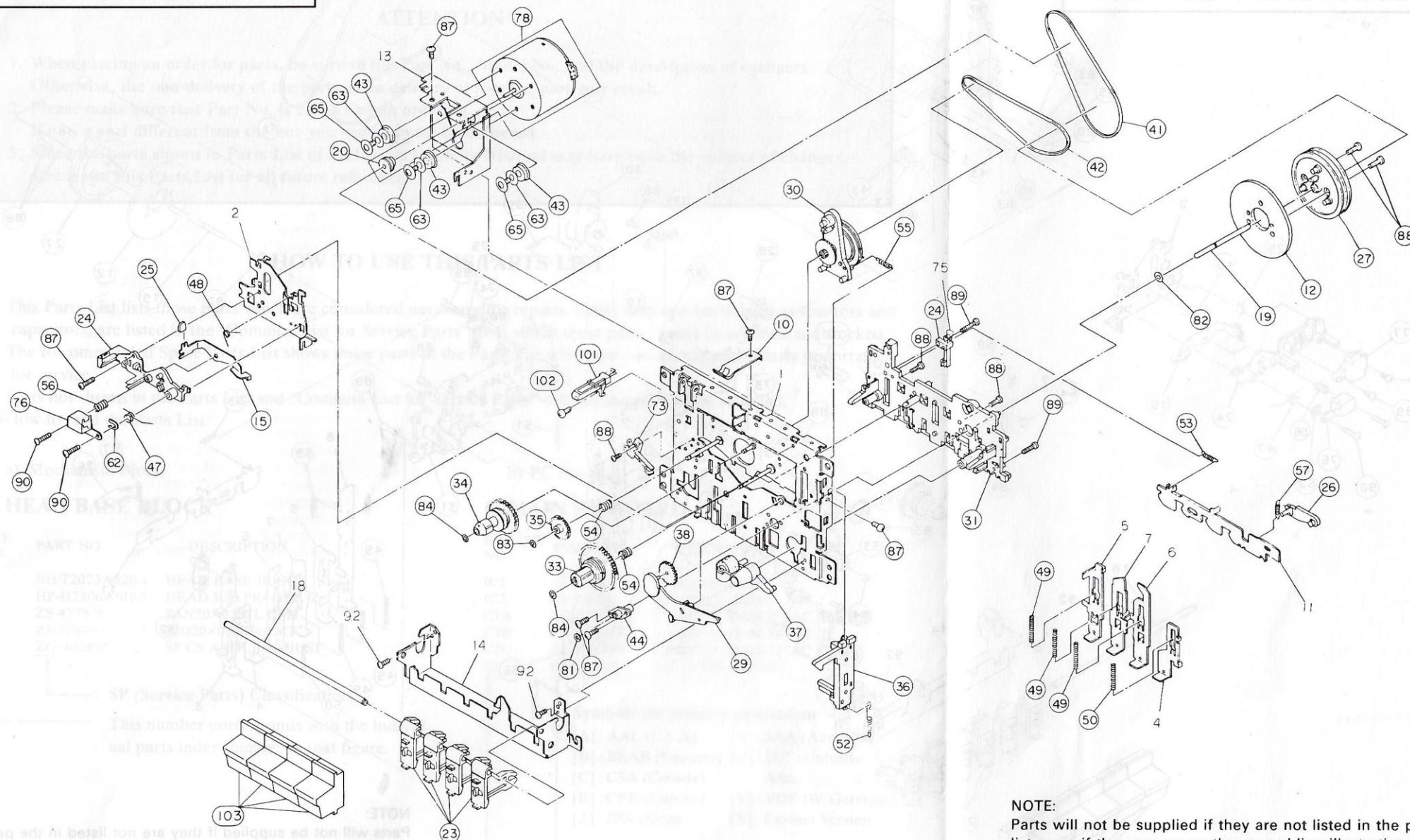
AVERTISSEMENT

⚠(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	AX-382658J	REMOCON RC-S552	60	ES-349474	SW TACT SKHHAM004A
2	BA-F0131A010A	PC FRONTENDBLKFE31(U,C,A,S,E,B			[1/9]
3	BL-726612J	PINCH ROLLER ASSY	61	ET-381637J1	DETECTOR GP1U521X
4	BM-725994J	MOTOR BLK EG500KD-2B-ND2012	62	ET-354370	TR DTA124ES
5	BT-382648J	TRANS POW C1023(B,S)	63	ET-353897	TR DTC114ES
6	BT-382647J	TRANS POW C1023(E,V)	64	ET-375986	TR DTC124TS
7	ED-376820	D LED SLP-136B-51 RED	65	ET-354414	TR DTC144ES
8	ED-361885	D LED SLP-384C-51 GREEN	66	ET-370310	TR DTC144TS
		[TUNER]	67	ET-349449	TR FET 2SK161 O,Y
9	*ED-383753J	D SILICON DBF20B 100V/2.0A	68	ET-337759	TR FET 2SK246 GR
10	*ED-383752J	D SILICON DBF40C 200V/4.0A	69	ET-353899	TR 2SA1317 S,T,U
11	*ED-389834J	D SILICON DS135E-FB2 F12 100/1	70	ET-366365	TR 2SB1185 E,F
12	ED-307572	D SILICON H 1SS131	71	ET-308977	TR 2SC2274K F F05
13	ED-624903	D SILICON H 1S2473	72	ET-338410	TR 2SC2878 A,B
14	ED-370990	D SILICON 1SR35-100AHS F10	73	ET-360137	TR 2SC3330 U,V F05
15	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL	74	ET-378524J	TR 2SC3383 S,T,U
16	ED-367552	D ZENER H HZS15B1J F05	75	ET-356437	TR 2SC930 D2,E,F
17	ED-383754J	D ZENER H HZS6.8B2J F05	76	ET-328437	TR 2SD1012-V F,G F05
18	ED-346551	D ZENER H HZ11B3L	77	ET-380685J	TR 2SD1761 E,F,G
19	ED-337267	D ZENER H HZ4 A1	78	ET-366581	TR 2SD1762 E,F
20	ED-338333	D ZENER H HZ5 B2	79	ET-310148	TR 2SD612K E,F
21	ED-319167	D ZENER H HZ6 C3	80	EV-382632J	VR SPLRK16Y12MA A104X2
22	ED-321180	D ZENER H HZ9 B2	81	EZ-358816	BATTERY LITHIUM BR2032-1HF
23	*EF-359007	FUSE BET T 250V 1.25A	82	HE-726628J	HEAD E 886-03-10
		[B]	83	HR-726638J	HEAD R/P 283-30-15
24	*EF-359225	FUSE BET T 250V 3.15A	84	MB-726615J	BELT CLUTCH (C)
		[B]	85	MB-726614J	BELT DRIVE (F)
25	*EF-359086	FUSE BET T 250V 4.00A			
		[B]			
26	*EF-602550	FUSE SEMKO T 250V 1.25A			
		[E]			
27	*EF-601964	FUSE SEMKO T 250V 1.60A			
		[B,E]			
28	*EF-691007	FUSE SEMKO T 250V 3.15A			
		[E]			
29	*EF-690996	FUSE SEMKO T 250V 4.00A			
		[E]			
30	EH-344434	FILTER CE BFU450C4N 0.450MHZ			
31	EH-355568	FILTER CE SFE10.7MS2G-A			
32	EI-367572	IC BA15218			
33	EI-382660J	IC BA15218-DX			
34	EI-373980	IC BA15218N			
35	EI-369608	IC BA3416BL			
36	EI-382624J	IC BA3812L			
37	EI-353421	IC BA6229			
38	EI-382635J	IC BU4011BL			
39	EI-382633J	IC CXA1102P			
40	EI-373215	IC HD74LS145P			
41	EI-361624	IC LA1265			
42	*EI-358554	IC STK4152II			
43	EI-359683	IC TA7343AP			
44	EI-332259	IC TC4052BP			
45	EI-363289	IC TC9172AP			
46	EI-392843J	IC TC9306F-050			
47	EI-381687J	IC UPC1330HA			
48	EI-344422	OSC X'TAL HC-18/U 7.200MHZ			
49	EJ-349401	TERMINAL LEVER YKD21-0027 8P			
50	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P			
		[ANT TERMINAL]			
51	EL-382627J	PL CORD 14.0V 100MA 100/100			
52	EM-382626J	IND LCD 9437JNP			
53	ES-716743	SW LEAF LSA-1120C-1			
54	ES-385511J	SW LEAF LSA-1128E1AU			
55	ES-712086	SW LEAF MSW-1412T-NBK			
56	*ES-361797	SW PUSH SDDL1 01-1			
		[POWER SW]			
57	ES-382638J	SW PUSH SPUL12 2-02-02N			
		[SURROUND]			
58	ES-372963	SW PUSH SPUL19 H6.5 2-02-02N			
		[DUBBING SPEED]			
59	ES-366631	SW SLIDE 00220656 02-02			
		[BEAT CANCEL]			

TAPE I (PLAY) MECHA BLOCK

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

2. TAPE 1 (PLAY) MECHA BLOCK

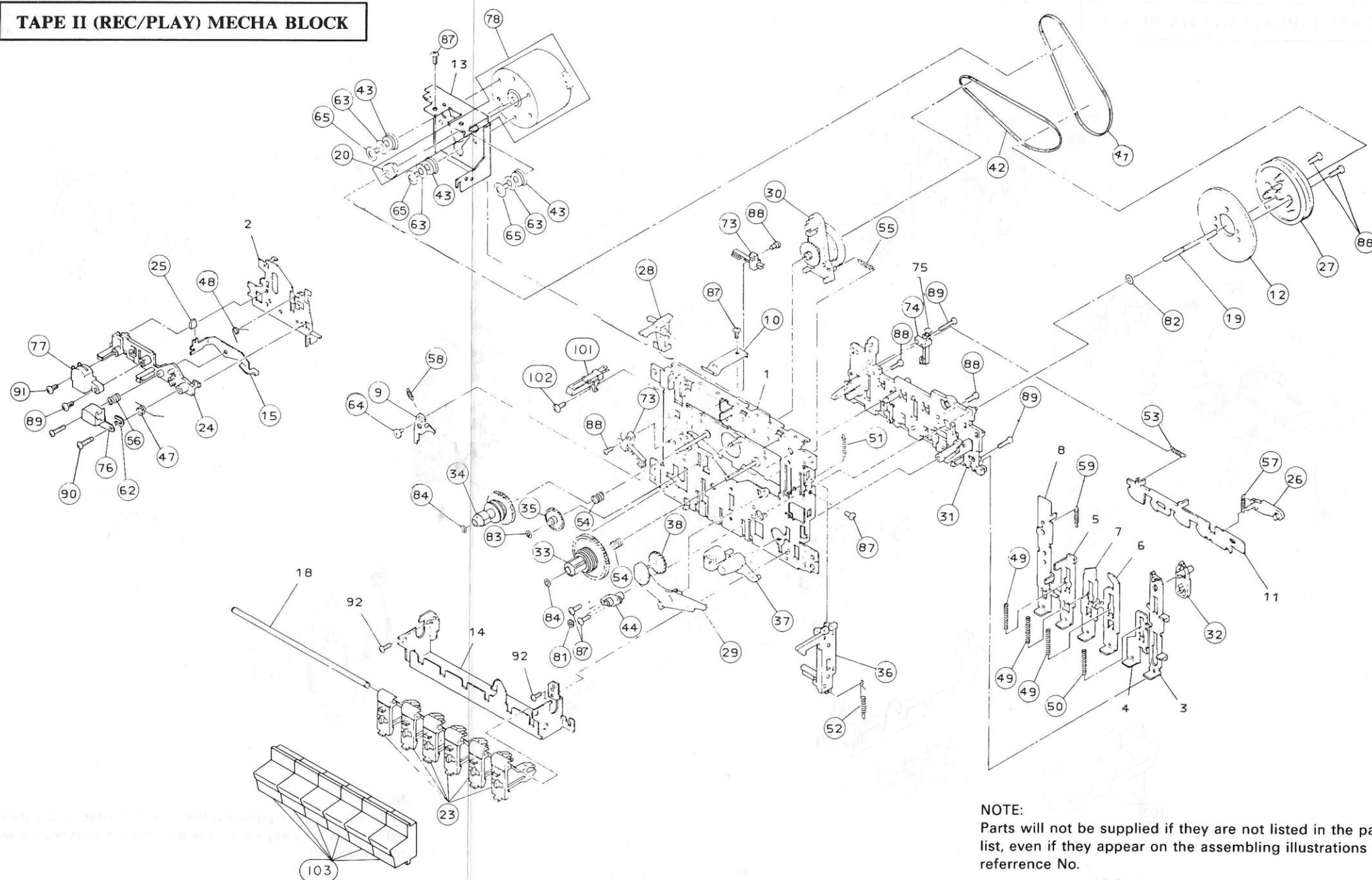
Ref. No.	Part No.	Description
10	ZG-726593J	SP PACK
12	BF-726594J	WEIGHT FLYWHEEL
15	ML-726595J	LEVER SENSOR
19	MS-726596J	SHAFT CAPSTAN
20	MR-726597J	PULLEY MOTOR (1)
23	ML-726598J	LEVER BUTTON
24	MZ-726635J	HEAD BASE
25	SC-725915J	CAP SENSOR
26	ML-726601J	ARM AUTO (A)
27	BF-726602J	FLYWHEEL
29	ML-726604J	ARM PLAY
30	MR-726605J	PULLEY FR ASSY (B)
31	MZ-726606J	BASE LEVER
33	MT-726608J	TAKE-UP REEL TABLE ASSY
34	MT-726609J	SUPPLY REEL TABLE ASSY
35	MZ-726610J	GEAR FF
36	ML-726611J	LEVER EJECT (F)
37	BL-726612J	PINCH ROLLER ASSY
38	MZ-726613J	GEAR PLAY
41	MB-726614J	BELT DRIVE (F)
42	MB-726615J	BELT CLUTCH (C)
43	MB-715936	CUSHION MOTOR
44	MZ-726616J	HOUSING ASSY

Ref. No.	Part No.	Description
47	ZG-726617J	SP PINCH ROLLER
48	ZG-726618J	SP PLAY ARM
49	ZG-726619J	SP LEVER
50	ZG-726620J	SP LEVER (B)
52	ZG-726622J	SP EJECT LEVER
53	ZG-725916J	SP CAM LOCK
54	ZG-726623J	SP BACK TENSION
55	ZG-726624J	SP FR ARM
56	ZG-749268	SP HEAD
62	ZW-726625J	SPACER HEAD
63	ZW-726626J	WASHER (B)
65	ZS-715943	SCREW MOTOR
73	ES-712086	SW LEAF MSW-1412T-NBK
74	ES-716743	SW LEAF LSA-1120C-1
76	HR-726638J	HEAD R/P 283-30-15
78	BM-725994J	MOTOR BLK EG500KD-2B-ND2012
81	ZW-725589J	PSW16X060X050
82	ZW-726629J	PSW21X040X025
83	ZW-726630J	PSW12X030X050
84	ZW-725374J	PSW10X035X050
87	ZS-726631J	SCREW 20X04
88	ZS-726632J	SCREW 20X05
88	ZS-726632J	SCREW 20X05

Ref. No.	Part No.	Description
89	ZS-726633J	SCREW 20X10
90	ZS-726633J	SCREW 20X10
100	BB-380896J2	MECHA AKI-031FF [INC. 1 TO 92]
101	ES-385511J	SW LEAF LSA-1128E1AU
102	ZS-383755J	ST BID20X06STL CMT
103	SK-383311J	KNOB OPERATION

PARTS LIST

TAPE II (REC/PLAY) MECHA BLOCK



NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

3. TAPE 2 (REC/PLAY) MECHA BLOCK

Ref. No.	Part No.	Description
9	ML-726592J	LEVER REC LOCK
10	ZG-726593J	SP PACK
12	BF-726594J	WEIGHT FLYWHEEL
15	ML-726595J	LEVER SENSOR
19	MS-726596J	SHAFT CAPSTAN
20	MR-726597J	PULLEY MOTOR (1)
23	ML-726598J	LEVER BUTTON
24	MZ-726599J	HEAD BASE (B)
25	SC-725915J	CAP SENSOR
26	ML-726601J	ARM AUTO (A)
27	BF-726602J	FLYWHEEL
28	ML-726603J	SENSOR REC
29	ML-726604J	ARM PLAY
30	MR-726605J	PULLEY FR ASSY (B)
31	MZ-726606J	BASE LEVER
32	MZ-726607J	CAM PAUSE (A)
33	MT-726608J	TAKE-UP REEL TABLE ASSY
34	MT-726609J	SUPPLY REEL TABLE ASSY
35	MZ-726610J	GEAR FF
36	ML-726611J	LEVER EJECT (F)
37	BL-726612J	PINCH ROLLER ASSY

Ref. No.	Part No.	Description
38	MZ-726613J	GEAR PLAY
41	MB-726614J	BELT DRIVE (F)
42	MB-726615J	BELT CLUTCH (C)
43	MB-715936	CUSHION MOTOR
44	MZ-726616J	HOUSING ASSY
47	ZG-726617J	SP PINCH ROLLER
48	ZG-726618J	SP PLAY ARM
49	ZG-726619J	SP LEVER
50	ZG-726620J	SP LEVER (B)
51	ZG-726621J	SP PAUSE (A)
52	ZG-726622J	SP EJECT LEVER
53	ZG-725916J	SP CAM LOCK
54	ZG-726623J	SP BACK TENSION
55	ZG-726624J	SP FR ARM
56	ZG-749268	SP HEAD
58	ZG-726600J	SP REC LOCK
59	ZG-726637J	SP REC LEVER
62	ZW-726625J	SPACER HEAD
63	ZW-726626J	WASHER (B)
64	ZS-725368J	SCREW (A)
65	ZS-715943	SCREW MOTOR

Ref. No.	Part No.	Description
73	ES-712086	SW LEAF MSW-1412T-NBK
74	ES-716743	SW LEAF LSA-1120C-1
76	HR-726638J	HEAD R/P 283-30-15
77	HE-726628J	HEAD E 886-03-10
78	BM-725994J	MOTOR BLK EG500KD-2B-ND2012
81	ZW-725589J	PSW16X060X050
82	ZW-726629J	PSW21X040X025
83	ZW-726630J	PSW12X030X050
84	ZW-725374J	PSW10X035X050
87	ZS-726631J	SCREW 20X04
88	ZS-726632J	SCREW 20X05
89	ZS-726633J	SCREW 20X10
90	ZS-726633J	SCREW 20X10
91	ZS-726634J	T2BID20X08
100	BB-380897J2	MECHA AKI-030FF [INC. 1 TO 92]
101	ES-385511J	SW LEAF LSA-1128E1AU
102	ZS-383755J	ST BID20X06STL CMT
103	SK-383311J	KNOB OPERATION

PARTS LIST

4. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-C1023A020E	PC(#) CONTROL BLK
2	BA-C1023C030B	PC(#) DECK BLK AC-M552(E)
3	BA-C1023A040H	PC BASE BLK AC-M480L

PC (#) CONTROL BLK CONSISTS OF FOLLOWING
P.C BOARDS

- * CONTROL P.C BOARD
- * MAIN VOLUME BOARD

PC (#) DECK BLK CONSISTS OF FOLLOWING
P.C BOARD.

- * POWER SW P.C BOARD
- * TERMINAL P.C BOARD
- * REC LED P.C BOARD

5. BASE P.C BOARD

Ref. No.	Part No.	Description
D1	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
D2	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-307572	D SILICON H 1SS131
D8	ED-321180	D ZENER H HZ9 B2
D10	ED-624903	D SILICON H 1S2473
D11	ED-319167	D ZENER H HZ6 C3
D101	ED-307572	D SILICON H 1SS131
D102	ED-307572	D SILICON H 1SS131
D103	ED-307572	D SILICON H 1SS131
D104	ED-307572	D SILICON H 1SS131
D201	ED-338333	D ZENER H HZ5 B2
D301	*ED-383752J	D SILICON DBF40C 200V/4.0A
D302	*ED-383753J	D SILICON DBF20B 100V/2.0A
D303	ED-383754J	D ZENER H HZS6.8B2J F05
D304	ED-367552	D ZENER H HZS15B1J F05
D305	ED-624903	D SILICON H 1S2473
D306	ED-624903	D SILICON H 1S2473
D307	ED-383754J	D ZENER H HZS6.8B2J F05
D308	*ED-389834J	D SILICON DS135E-FB2 F12 100/1
D309	ED-367552	D ZENER H HZS15B1J F05
D310	ED-367552	D ZENER H HZS15B1J F05
D501	ED-624903	D SILICON H 1S2473
F3A	*EF-359086	FUSE BET T 250V 4.00A
		[B]
F3B	*EF-690996	FUSE SEMKO T 250V 4.00A
		[E]
F4A	*EF-359086	FUSE BET T 250V 4.00A
		[B]
F4B	*EF-690996	FUSE SEMKO T 250V 4.00A
		[E]
F5A	*EF-359007	FUSE BET T 250V 1.25A
		[B]
F5B	*EF-602550	FUSE SEMKO T 250V 1.25A
		[E]
F6A	*EF-359225	FUSE BET T 250V 3.15A
		[B]
F6B	*EF-691007	FUSE SEMKO T 250V 3.15A
		[E]
F7A	*EF-359225	FUSE BET T 250V 3.15A
		[B]
F7B	*EF-691007	FUSE SEMKO T 250V 3.15A
		[E]
FL1	EH-355568	FILTER CE SFE10.7MS2G-A

Ref. No.	Part No.	Description
FL2	EH-355568	FILTER CE SFE10.7MS2G-A
FL3	EH-344434	FILTER CE BFU450C4N 0.450MHZ
FL4	EH-366622	FILTER LC LP 135-1003-01
FL5	EH-366622	FILTER LC LP 135-1003-01
FR201	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
FR301	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
FR302	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
IC1	EI-361624	IC LA1265
IC2	EI-359683	IC TA7343AP
IC3	EI-363289	IC TC9172AP
IC101	EI-382660J	IC BA15218-DX
IC102	EI-332259	IC TC4052BP
IC103	EI-367572	IC BA15218
IC201	EI-353421	IC BA6229
IC501	*EI-358554	IC STK4152II
J101	EJ-382661J	PIN J YKC21-0351 6P
		[PHONO/CD/LINE OUT]
L501	EO-337880	COIL FIX 2 202AK-018 2R2K
R13	ER-324184	R CB H S10 FS RDS 1/4W 121J
R23	ER-333406	R CB H S10 FS RDS 1/4W 363J
R35	ER-367512	R CB H S12 FS RDS 1/2W 121J
R57	ER-306805	R CB H S15 FS RDS 1/2W 101J
R83	ER-387976J	R OMF H S15 FS 2W 101J
R304	ER-387975J	R OMF H S15 FS 2W 222J
R506	ER-324337	R CB H S10 FS RDS 1/4W 560J
R513	ER-322332	R CB H S10 FS RDS 1/4W 8R2J
R516	ER-387973J	R OMF H S12 FS 1W 100J
R517	ER-387973J	R OMF H S12 FS 1W 100J
SW2	ES-366631	SW SLIDE 00220656 02-02
		[BEAT CANCEL]
SW3	ES-372963	SW PUSH SPUL19 H6.5 2-02-02N
		[DUBBING SPEED]
SW4	ES-372963	SW PUSH SPUL19 H6.5 2-02-02N
		[DOLBY NR]
TM1	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
		[ANT TERMINAL]
TR1	ET-338410	TR 2SC2878 A,B
TR2	ET-349449	TR FET 2SK161 O,Y
TR4	ET-356437	TR 2SC930 D2,E,F
TR6	ET-378524J	TR 2SC3383 S,T,U
TR8	ET-378524J	TR 2SC3383 S,T,U
TR9	ET-353899	TR 2SA1317 S,T,U
TR10	ET-353899	TR 2SA1317 S,T,U
TR11	ET-360137	TR 2SC3330 U,V F05
TR12	ET-360137	TR 2SC3330 U,V F05
TR13	ET-360137	TR 2SC3330 U,V F05
TR14	ET-360137	TR 2SC3330 U,V F05
TR15	ET-360137	TR 2SC3330 U,V F05
TR16	ET-337759	TR FET 2SK246 GR
TR17	ET-378524J	TR 2SC3383 S,T,U
TR18	ET-360137	TR 2SC3330 U,V F05
TR19	ET-360137	TR 2SC3330 U,V F05
TR20	ET-360137	TR 2SC3330 U,V F05
TR21	ET-354414	TR DTC144ES
TR103	ET-354414	TR DTC144ES
TR104	ET-353899	TR 2SA1317 S,T,U
TR105	ET-353899	TR 2SA1317 S,T,U
TR301	ET-366365	TR 2SB1185 E,F
TR302	ET-366581	TR 2SD1762 E,F
TR303	ET-360137	TR 2SC3330 U,V F05
TR304	ET-380685J	TR 2SD1761 E,F,G
TR305	ET-360137	TR 2SC3330 U,V F05
TR306	ET-366581	TR 2SD1762 E,F
TR307	ET-360137	TR 2SC3330 U,V F05
T1	EO-353176	COIL IFT PEGK0008B-01 455.0KHZ
T1A	EH-344435	FILTER CE SFU450B9 0.450MHZ
T2	EO-337598	COIL VARI 2 25A-1353-01
T3	EO-337599	COIL VARI 2 25A-1354-03
T4	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
T5	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH
T6	EO-363291	COIL DET 2 78-1128-01
T7	EO-361630	COIL DET 2 78-1126-02
VC1	EC-363331	C S-FIX H CTC-6U-030 5.5-30
VC2	EC-365146	C S-FIX H CTC-6U-050 9.1-50
VR1	EV-366447	R S-FIX H V6EKP(1S) 0.10W 103
VR2	EV-367499	R S-FIX H V6EKP(1S) 0.10W 472
FE	BA-F0131A010A	PC FRONTENDBLKFE31(U,C,A,S,E,B

6. DECK P.C BOARD

Ref. No.	Part No.	Description
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-307572	D SILICON H 1SS131
D205	ED-307572	D SILICON H 1SS131
D206	ED-307572	D SILICON H 1SS131
D207	ED-307572	D SILICON H 1SS131
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D210	ED-307572	D SILICON H 1SS131
D211	ED-307572	D SILICON H 1SS131
D212	ED-307572	D SILICON H 1SS131
D213	ED-307572	D SILICON H 1SS131
D214	ED-307572	D SILICON H 1SS131
D215	ED-307572	D SILICON H 1SS131
D216	ED-307572	D SILICON H 1SS131
D217	ED-307572	D SILICON H 1SS131
D218	ED-307572	D SILICON H 1SS131
D219	ED-624903	D SILICON H 1S2473
D220	ED-337267	D ZENER H H24 A1
D221	ED-307572	D SILICON H 1SS131
D222	ED-346551	D ZENER H H211B3L
D223	ED-307572	D SILICON H 1SS131
D224	ED-307572	D SILICON H 1SS131
D225	ED-370990	D SILICON 1SR35-100AHS F10
FL201	EH-326491J1	FILTER DB D07-003K 100KHZ
FL202	EH-328491J1	FILTER DB D07-003K 100KHZ
FL203	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FR201	ER-200926	R FUSE H S10 ERD2FC 1/4W 27R0G
IC201	EI-369608	IC BA3416BL
IC202	EI-382633J	IC CXA1102P
IC203	EI-373980	IC BA15218N
IC204	EI-382635J	IC BU4011BL
IC205	EI-382635J	IC BU4011BL
IC206	EI-381687J	IC UPC1330HA
L202	EO-381229J	COIL FIX 3 E1272T882J 822J272K
L204	EO-345888	COIL FIX 1 EL0606SKI 271J
T201	EO-387917J	COIL OSC 1 32-8010-01 100KHZ
TR201	ET-360137	TR 2SC3330 U,V F05
TR202	ET-360137	TR 2SC3330 U,V F05
TR203	ET-360137	TR 2SC3330 U,V F05
TR204	ET-354370	TR DTA124ES
TR205	ET-360137	TR 2SC3330 U,V F05
TR206	ET-360137	TR 2SC3330 U,V F05
TR207	ET-360137	TR 2SC3330 U,V F05
TR208	ET-360137	TR 2SC3330 U,V F05
TR209	ET-353897	TR DTC114ES
TR210	ET-354370	TR DTA124ES
TR211	ET-360137	TR 2SC3330 U,V F05
TR212	ET-360137	TR 2SC3330 U,V F05
TR213	ET-360137	TR 2SC3330 U,V F05
TR214	ET-360137	TR 2SC3330 U,V F05
TR215	ET-360137	TR 2SC3330 U,V F05
TR216	ET-360137	TR 2SC3330 U,V F05
TR217	ET-360137	TR 2SC3330 U,V F05
TR218	ET-354414	TR DTC144ES
TR219	ET-360137	TR 2SC3330 U,V F05
TR220	ET-354414	TR DTC144ES
TR221	ET-354414	TR DTC144ES
TR222	ET-354414	TR DTC144ES
TR223	ET-354414	TR DTC144ES
TR224	ET-354371	TR DTC124ES
TR225	ET-353899	TR 2SA1317 S,T,U
TR226	ET-354370	TR DTA124ES
TR227	ET-354414	TR DTC144ES
TR228	ET-354414	TR DTC144ES
TR229	ET-354370	TR DTA124ES
TR230	ET-360137	TR 2SC3330 U,V F05
TR231	ET-354370	TR DTA124ES
TR232	ET-360137	TR 2SC3330 U,V F05
TR233	ET-354370	TR DTA124ES
TR234	ET-360137	TR 2SC3330 U,V F05
TR235	ET-360137	TR 2SC3330 U,V F05
TR236	ET-360137	TR 2SC3330 U,V F05
TR237	ET-360137	TR 2SC3330 U,V F05
TR238	ET-360137	TR 2SC3330 U,V F05
TR239	ET-308977	TR 2SC2274K F F05
TR240	ET-308977	TR 2SC2274K F F05

Ref. No.	Part No.	Description
TR241	ET-360137	TR 2SC3330 U,V F05
TR242	ET-360137	TR 2SC3330 U,V F05
TR243	ET-360137	TR 2SC3330 U,V F05
TR244	ET-354370	TR DTA124ES
TR245	ET-360137	TR 2SC3330 U,V F05
TR246	ET-375986	TR DTC124TS
TR247	ET-375986	TR DTC124TS
TR248	ET-353899	TR 2SA1317 S,T,U
TR249	ET-353899	TR 2SA1317 S,T,U
TR250	ET-354414	TR DTC144ES
TR251	ET-310148	TR 2SD612K E,F
TR252	ET-310148	TR 2SD612K E,F
TR253	ET-310148	TR 2SD612K E,F
TR254	ET-354370	TR DTA124ES
TR255	ET-360137	TR 2SC3330 U,V F05
TR256	ET-354414	TR DTC144ES
TR257	ET-354370	TR DTA124ES
TR258	ET-360137	TR 2SC3330 U,V F05
VR201	EV-359093	R S-FIX V RVF8W01 0.10W 503
VR202	EV-359093	R S-FIX V RVF8W01 0.10W 503
VR203	EV-344828	R S-FIX V RVF8W01 0.10W 203
VR204	EV-371315	R S-FIX V VM6CK(PH) 0.30W 104
VR205	EV-366846	R S-FIX V RVF8W01 0.10W 202
VR206	EV-366846	R S-FIX V RVF8W01 0.10W 202
VR207	EV-366845	R S-FIX V RVF8W01 0.10W 102
VR208	EV-366845	R S-FIX V RVF8W01 0.10W 102

7. TERMINAL P.C BOARD

Ref. No.	Part No.	Description
TM201	EJ-349401	TERMINAL LEVER YKD21-0027 8P

8. REC LED P.C BOARD

Ref. No.	Part No.	Description
D301	ED-376820	D LED SLP-136B-51 RED

9. CONTROL P.C BOARD

Ref. No.	Part No.	Description
BT1	EZ-358816	BATTERY LITHIUM BR2032-1HF
D101	ED-307572	D SILICON H 1SS131
D102	ED-307572	D SILICON H 1SS131
D103	ED-307572	D SILICON H 1SS131
D104	ED-307572	D SILICON H 1SS131
D105	ED-307572	D SILICON H 1SS131
D106	ED-307572	D SILICON H 1SS131
D107	ED-307572	D SILICON H 1SS131
D108	ED-624903	D SILICON H 1S2473
D110	ED-307572	D SILICON H 1SS131
D118	ED-361885	D LED SLP-384C-51 GREEN [TUNER]
D119	ED-361885	D LED SLP-384C-51 GREEN [CD/VCR]
D120	ED-361885	D LED SLP-384C-51 GREEN [TAPE]
D121	ED-361885	D LED SLP-384C-51 GREEN [PHONO]
IC1	EI-382624J	IC BA3812L
IC101	EI-392843J	IC TC9306F-050
IC102	EI-373215	IC HD74LS145P
IN1	EM-382626J	IND LCD 9437JNP
IN2	EL-382627J	PL CORD 14.0V 100MA 100/100
PH101	ET-381637J1	DETECTOR GP1U521X
TS1	ES-349474	SW TACT SKHHAM004A [1/9]
TS2	ES-349474	SW TACT SKHHAM004A [2/10]
TS3	ES-349474	SW TACT SKHHAM004A [3/11]
TS4	ES-349474	SW TACT SKHHAM004A [4/12]
TS5	ES-349474	SW TACT SKHHAM004A [5/13]
TS6	ES-349474	SW TACT SKHHAM004A [6/14]
TS7	ES-349474	SW TACT SKHHAM004A [7/15]
TS8	ES-349474	SW TACT SKHHAM004A [8/16]
TS9	ES-349474	SW TACT SKHHAM004A [MEMORY]
TS10	ES-349474	SW TACT SKHHAM004A [BAND]
TS11	ES-349474	SW TACT SKHHAM004A [TUNING UP]
TS12	ES-349474	SW TACT SKHHAM004A [TUNING DOWN]
TS13	ES-349474	SW TACT SKHHAM004A [TAPE]
TS14	ES-349474	SW TACT SKHHAM004A [CD/VCR]
TS15	ES-349474	SW TACT SKHHAM004A [PHONO]
TS16	ES-349474	SW TACT SKHHAM004A [TUNER]
TS17	ES-349474	SW TACT SKHHAM004A [FM AUTO/MONO]
TR1	ET-328437	TR 2SD1012-V F,G F05
TR102	ET-370310	TR DTC144TS
TR103	ET-354371	TR DTC124ES
TR104	ET-360137	TR 2SC3330 U,V F05
VR1	EV-391165J	VR SLIDE RS20H123D016A W104X2
VR2	EV-391165J	VR SLIDE RS20H123D016A W104X2
VR3	EV-391165J	VR SLIDE RS20H123D016A W104X2
VR4	EV-391165J	VR SLIDE RS20H123D016A W104X2
VR5	EV-391165J	VR SLIDE RS20H123D016A W104X2
VR6	EV-391166J	VR SLIDE RS20H123D015M MN104X2
X1	EI-344422	OSC X'TAL HC-18/U 7.200MHZ

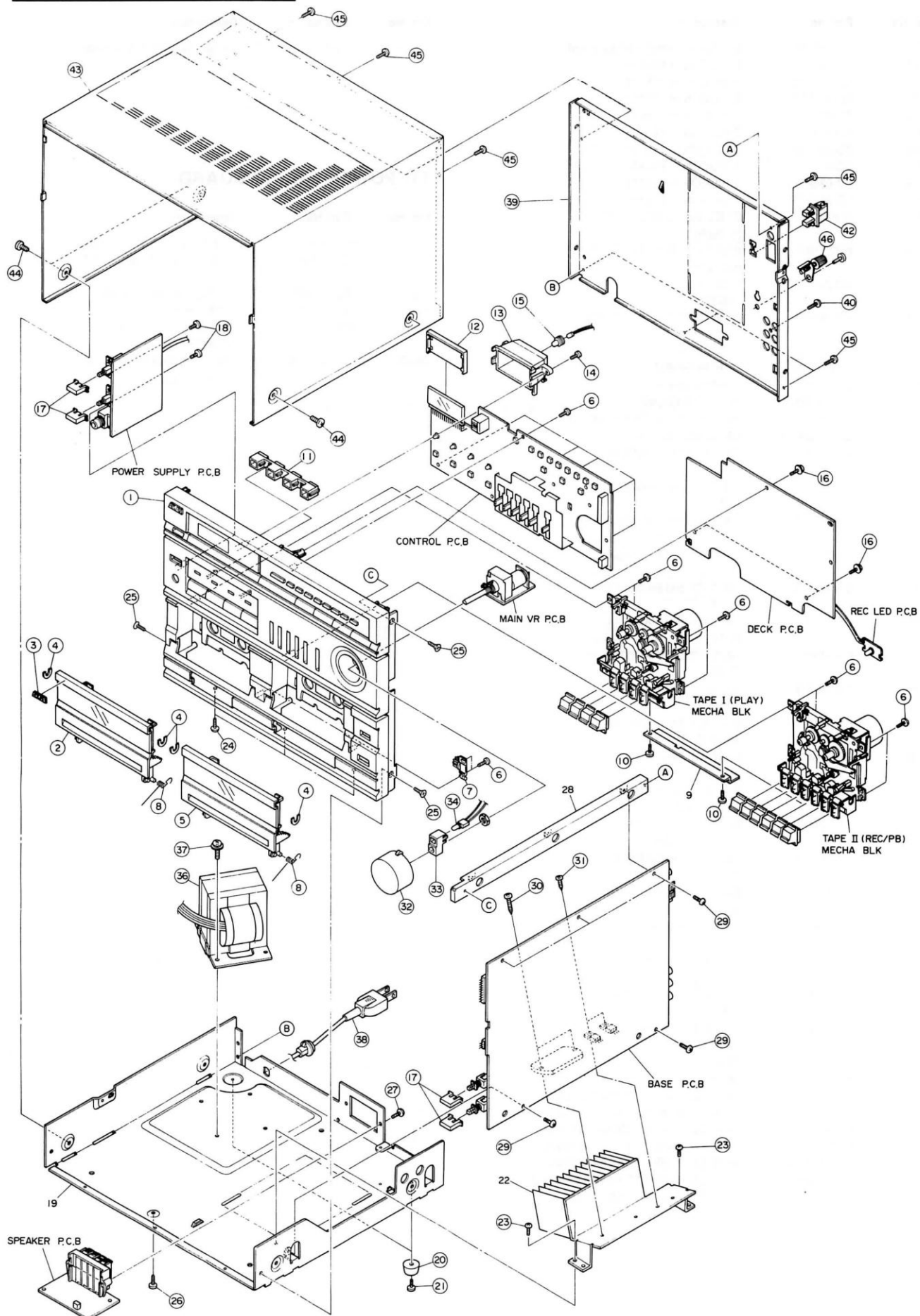
10. MAIN VOLUME P.C BOARD

Ref. No.	Part No.	Description
VR201	EV-382632J	VR SPLRK16Y12MA A104X2

11. POWER SW P.C BOARD

Ref. No.	Part No.	Description
C401	*EC-338496	C CE V DE7 FZ 472P 400AC
F1	*EF-601964	FUSE SEMKO T 250V 1.60A [B,E]
J401	EJ-366675	PHONE J HLJ4318-3040
R401	ER-360725	R OMF H S12 FS 1W 221J
SW401	*ES-361797	SW PUSH SDDLD1 01-1 [POWER SW]
SW402	ES-382638J	SW PUSH SPUL12 2-02-02N [SURROUND]

FINAL ASSEMBLY BLOCK



PARTS LIST

12. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	BD-C1023A060D	PANEL FRONT BLK AC-M480L
2	SP-391158J1	PANEL LID L-2
3	SM-382237S	BADGE
4	ZG-336615	SP PLATE CASSETTE HOLDER (B)
5	SP-391157J1	PANEL LID R-2
7	MZ-380875J	DAMPER 1G88-L
8	ZG-383296J2	SP LID
11	SE-383312J	ESCUTCHEON LED
12	MZ-361868	HOLDER LCD
13	SC-380871J	LAMP CASE B
15	MZ-382290J	HOLDER LAMP EQ300-42503A
17	SK-380870J1	KNOB PUSH
20	SA-380874J	RUBBER FOOT
32	SK-383579J	KNOB VR PART
34	ED-387746J	D LED HBG5566X GREEN
36-A	BT-382648J	TRANS POW C1023(B,S)
36-B	BT-382647J	TRANS POW C1023(E,V)
38-A	EW-382657J	AC CORD 200 LCFL B400 A B
38-B	EW-382653J	AC CORD 200 0364LCFL B400 A
39-A	SP-391153J	PANEL REAR AC-M480L(B)
39-B	SP-391152J	PANEL REAR AC-M480L(E)
40	ZS-351886	PT BR30X10STL BNI
42	SZ-362273	HOLDER ANTENNA (2)
43	SP-387823J	COVER UPPER
44	ZS-322580	ST BID40X08STL BNI
45	ZS-308846	T2BR30X08STL BZN PROJECTION
46	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

13. ACCESSORY

Ref. No.	Part No.	Description
1	EE-359265	ANT LOOP LA-200A-A
2	EE-381076J	ANT DIPOLE (FM)
3	EJ-352118	SOCKET COAX PAL B2-714P-900
4	AX-382658J	REMOCON RC-S552

14. REMOCON RC-S552

Ref. No.	Part No.	Description
1	SC-725940J	COVER BATTERY (C) SBFA00K65A

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AX-382658J	1-1	ED-361885	9-D118	EI-373980	6-IC203	ES-385511J	1-54
AX-382658J	13-4	ED-361885	9-D119	EI-381687J	1-47	ES-385511J	2-101
BA-C1023A020E	4-1	ED-361885	9-D120	EI-381687J	6-IC206	ES-385511J	3-101
BA-C1023A040H	4-3	ED-361885	9-D121	EI-382624J	1-36	ES-712086	1-55
BA-C1023C030B	4-2	ED-367552	1-16	EI-382624J	9-IC1	ES-712086	2-73
BA-F0131A010A	1-2	ED-367552	5-D304	EI-382633J	1-39	ES-712086	3-73
BA-F0131A010A	5-FE	ED-367552	5-D309	EI-382633J	6-IC202	ES-716743	1-53
BB-380896J2	2-100	ED-367552	5-D310	EI-382635J	1-38	ES-716743	2-74
BB-380897J2	3-100	ED-370990	1-14	EI-382635J	6-IC204	ES-716743	3-74
BD-C1023A060D	12-1	ED-370990	6-D225	EI-382635J	6-IC205	ET-308977	1-71
BF-726594J	2-12	ED-376820	1-7	EI-382660J	1-33	ET-308977	6-TR239
BF-726594J	3-12	ED-376820	8-D301	EI-382660J	5-IC101	ET-308977	6-TR240
BF-726602J	2-27	ED-383752J	1-10	EI-392843J	1-46	ET-310148	1-79
BF-726602J	3-27	ED-383752J	5-D301	EI-392843J	9-IC101	ET-310148	6-TR251
BL-726612J	1-3	ED-383753J	1-9	EJ-329610	12-46	ET-310148	6-TR252
BL-726612J	2-37	ED-383753J	5-D302	EJ-349401	1-49	ET-310148	6-TR253
BL-726612J	3-37	ED-383754J	1-17	EJ-349401	7-TM201	ET-328437	1-76
BM-725994J	1-4	ED-383754J	5-D303	EJ-352118	13-3	ET-328437	9-TR1
BM-725994J	2-78	ED-383754J	5-D307	EJ-359031	1-50	ET-337759	1-68
BM-725994J	3-78	ED-387746J	12-34	EJ-359031	5-TM1	ET-337759	5-TR16
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BT-382648J	1-5	ED-624903	1-13	EL-382627J	1-51	ET-349449	1-67
BT-382648J	12-36-A	ED-624903	5-D10	EL-382627J	9-IN2	ET-349449	5-TR2
EC-338496	11-C401	ED-624903	5-D305	EM-382626J	1-52	ET-353897	1-63
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EC-365146	5-VC2	ED-624903	5-D501	EO-337598	5-T2	ET-353899	1-69
ED-307572	1-12	ED-624903	6-D219	EO-337599	5-T3	ET-353899	5-TR9
ED-307572	5-D3	ED-624903	9-D108	EO-337880	5-L501	ET-353899	5-TR10
ED-307572	5-D4	EE-359265	13-1	EO-345888	6-L204	ET-353899	5-TR104
ED-307572	5-D5	EE-381076J	13-2	EO-352089	5-T5	ET-353899	5-TR105
ED-307572	5-D6	EF-359007	1-23	EO-353176	5-T1	ET-353899	6-TR225
ED-307572	5-D7	EF-359007	5-F5A	EO-356809	6-FL203	ET-353899	6-TR248
ED-307572	5-D101	EF-359086	1-25	EO-361630	5-T7	ET-353899	6-TR249
ED-307572	5-D102	EF-359086	5-F3A	EO-363279	5-T4	ET-354370	1-62
ED-307572	5-D103	EF-359086	5-F4A	EO-363291	5-T6	ET-354370	6-TR204
ED-307572	5-D104	EF-359225	1-24	EO-381229J	6-L202	ET-354370	6-TR210
ED-307572	6-D201	EF-359225	5-F6A	EO-387917J	6-T201	ET-354370	6-TR226
ED-307572	6-D202	EF-359225	5-F7A	ER-200926	6-FR201	ET-354370	6-TR229
ED-307572	6-D203	EF-601964	1-27	ER-306805	5-R57	ET-354370	6-TR231
ED-307572	6-D204	EF-601964	11-F1	ER-322332	5-R513	ET-354370	6-TR233
ED-307572	6-D205	EF-602550	1-26	ER-324184	5-R13	ET-354370	6-TR244
ED-307572	6-D206	EF-602550	5-F5B	ER-324337	5-R506	ET-354370	6-TR254
ED-307572	6-D207	EF-690996	1-29	ER-328278	5-FR201	ET-354370	6-TR257
ED-307572	6-D208	EF-690996	5-F3B	ER-328278	5-FR301	ET-354371	6-TR224
ED-307572	6-D209	EF-690996	5-F4B	ER-328278	5-FR302	ET-354371	9-TR103
ED-307572	6-D210	EF-691007	1-28	ER-333406	5-R23	ET-354414	1-65
ED-307572	6-D211	EF-691007	5-F6B	ER-360725	11-R401	ET-354414	5-TR21
ED-307572	6-D212	EF-691007	5-F7B	ER-367512	5-R35	ET-354414	5-TR103
ED-307572	6-D213	EH-328491J1	6-FL201	ER-387973J	5-R516	ET-354414	6-TR218
ED-307572	6-D214	EH-328491J1	6-FL202	ER-387973J	5-R517	ET-354414	6-TR220
ED-307572	6-D215	EH-344434	1-30	ER-387975J	5-R304	ET-354414	6-TR221
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ED-307572	6-D218	EH-355568	1-31	ES-349474	9-TS1	ET-354414	6-TR227
ED-307572	6-D221	EH-355568	5-FL1	ES-349474	9-TS2	ET-354414	6-TR228
ED-307572	6-D223	EH-355568	5-FL2	ES-349474	9-TS3	ET-354414	6-TR250
ED-307572	6-D224	EH-366622	5-FL4	ES-349474	9-TS4	ET-354414	6-TR256
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ED-307572	9-D106	EI-353421	1-37	ES-349474	9-TS10	ET-360137	5-TR13
ED-307572	9-D107	EI-353421	5-IC201	ES-349474	9-TS11	ET-360137	5-TR14
ED-307572	9-D110	EI-358554	1-42	ES-349474	9-TS12	ET-360137	5-TR15
ED-319167	1-21	EI-358554	5-IC501	ES-349474	9-TS13	ET-360137	5-TR18
ED-319167	5-D11	EI-359683	1-43	ES-349474	9-TS14	ET-360137	5-TR19
ED-321180	1-22	EI-359683	5-IC2	ES-349474	9-TS15	ET-360137	5-TR20
ED-321180	5-D8	EI-361624	1-41	ES-349474	9-TS16	ET-360137	5-TR303
ED-337267	1-19	EI-361624	5-IC1	ES-349474	9-TS17	ET-360137	5-TR305
ED-337267	6-D220	EI-363289	1-45	ES-361797	1-56	ET-360137	5-TR307
ED-338333	1-20	EI-363289	5-IC3	ES-361797	11-SW401	ET-360137	6-TR201
ED-338333	5-D201	EI-367572	1-32	ES-366631	1-59	ET-360137	6-TR202
ED-346551	1-18	EI-367572	5-IC103	ES-366631	5-SW2	ET-360137	6-TR203
ED-346551	6-D222	EI-369608	1-35	ES-372963	1-58	ET-360137	6-TR205
ED-349460-A	1-15	EI-369608	6-IC201	ES-372963	5-SW3	ET-360137	6-TR206
ED-349460-A	5-D1	EI-373215	1-40	ES-372963	5-SW4	ET-360137	6-TR207
ED-349460-A	5-D2	EI-373215	9-IC102	ES-382638J	1-57	ET-360137	6-TR208
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ET-360137	6-TR219	MR-726597J	2-20	ZS-726633J	3-89		
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ET-360137	6-TR236	MS-726596J	3-19	ZW-725589J	2-81		
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ET-360137	6-TR241	MT-726609J	2-34	ZW-726625J	3-62		
ET-360137	6-TR242	MT-726609J	3-34	ZW-726626J	2-63		
ET-360137	6-TR243	MZ-361868	12-12	ZW-726626J	3-63		
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ET-375986	6-TR247	SA-380874J	12-20				
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EV-366845	6-VR208	SP-391157J1	12-5				
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EV-391165J	9-VR2	ZG-726593J	3-10				
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MB-726615J	1-84	ZG-749268	3-56				
MB-726615J	2-42	ZS-308846	12-45				
MB-726615J	3-42	ZS-322580	12-44				
ML-726592J	3-9	ZS-351886	12-40				
ML-726595J	2-15	ZS-383755J	2-102				
ML-726595J	3-15	ZS-383755J	3-102				
ML-726598J	2-23	ZS-715943	2-65				
ML-726598J	3-23	ZS-715943	3-65				
ML-726601J	2-26	ZS-725368J	3-64				

AKAI ELECTRIC CO., LTD.

12-14, 2-Chome, Higashi-Kojiya, Ohta-ku, Tokyo, Japan
SERVICE DEPARTMENT TEL:TOKYO (745)9884 TELEX: J26261
Printed No 890722-A1-1700 Printed Date September 4, 1989
350 Printed in Japan

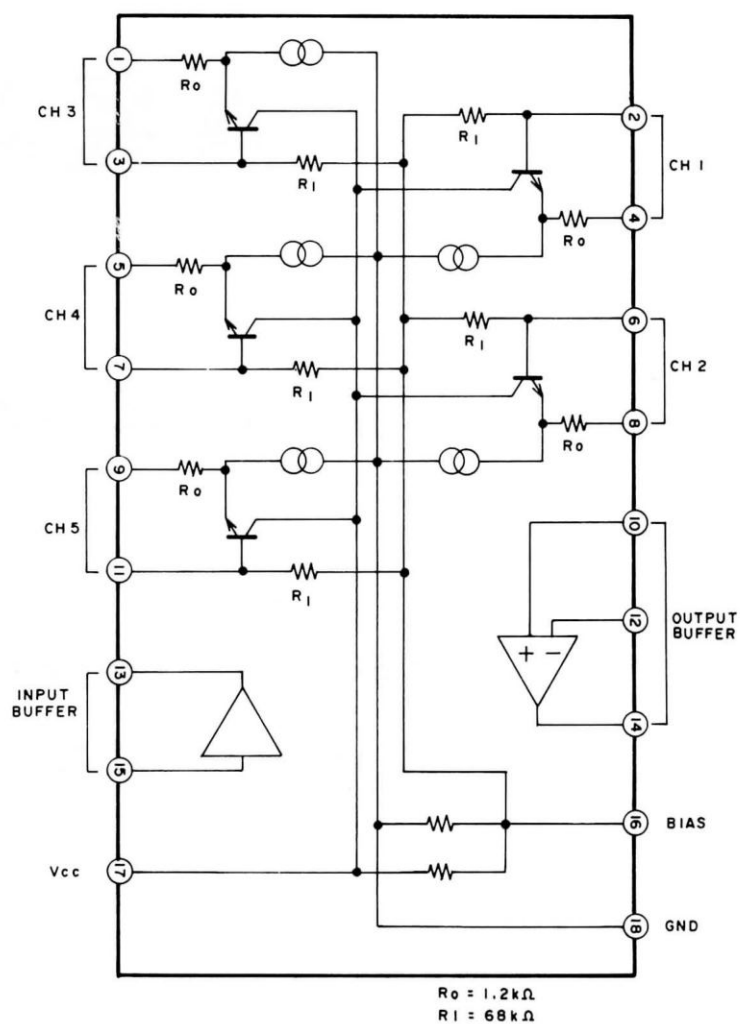
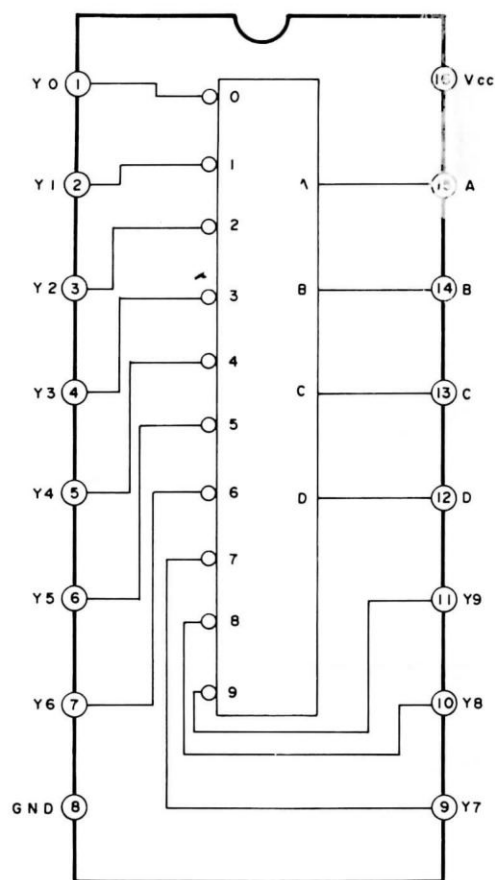
AKAI

MODEL **AC-M480L**

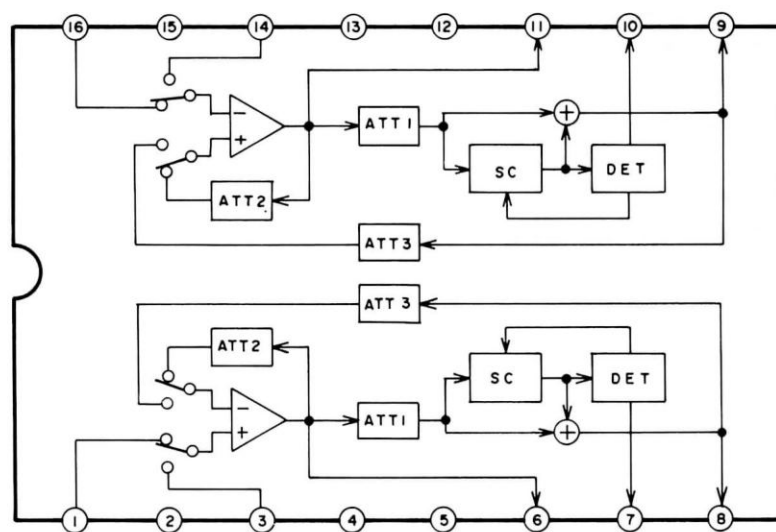
SCHEMATIC DIAGRAMS AND PC BOARDS

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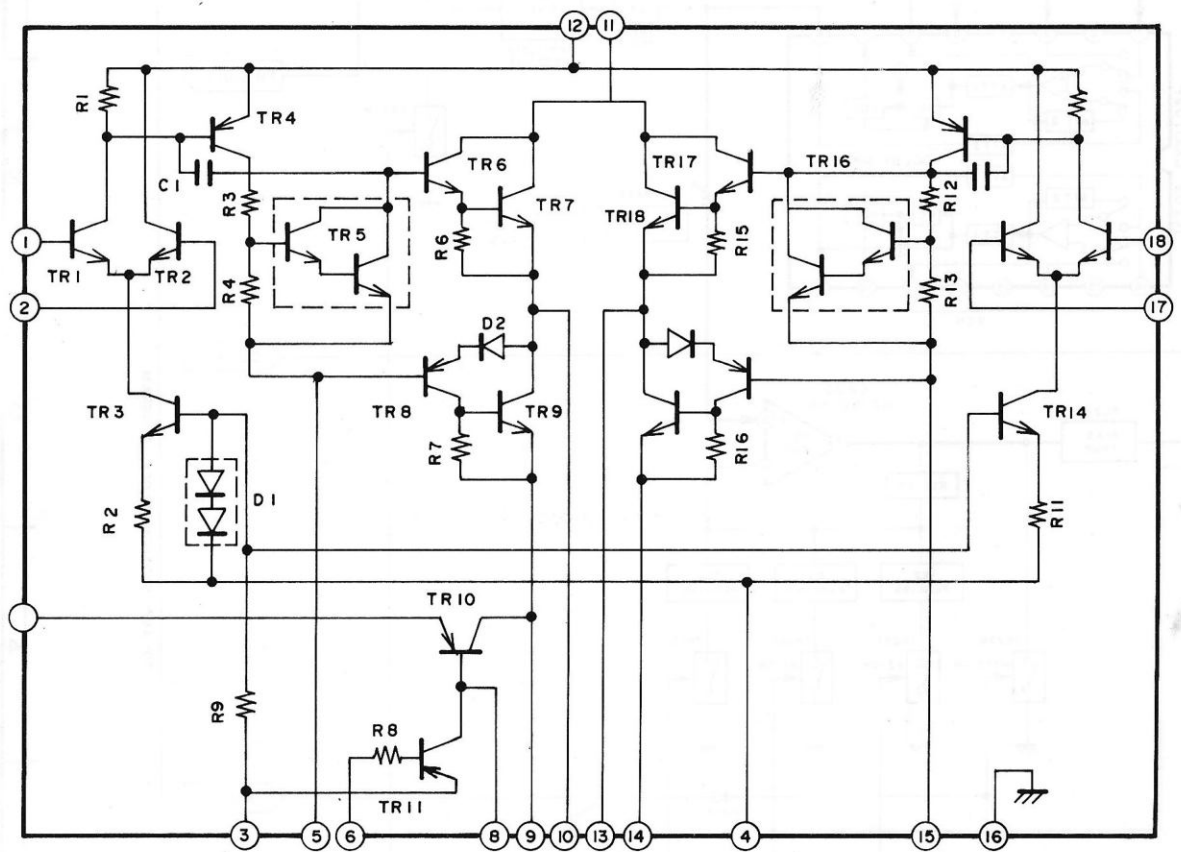
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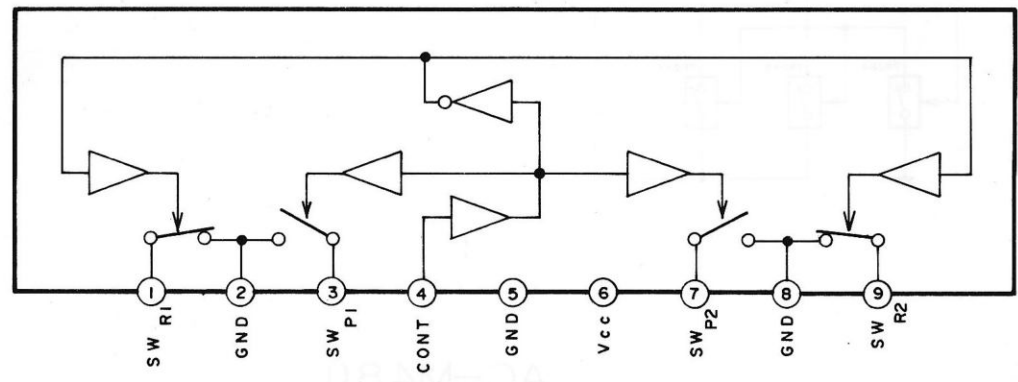
CXA1102P (Dolby NR)



STK4152-2 (Dual power amplifier)

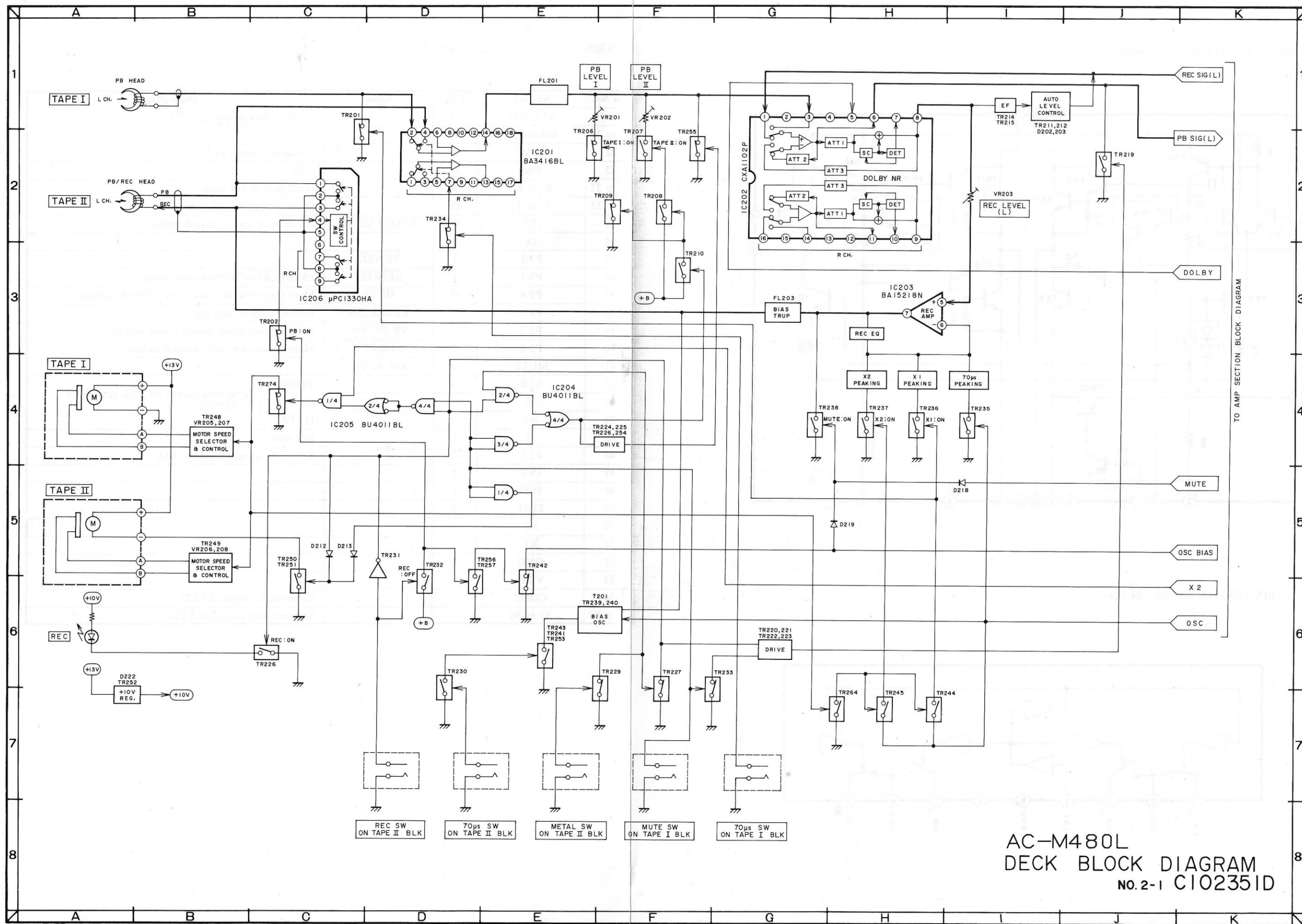


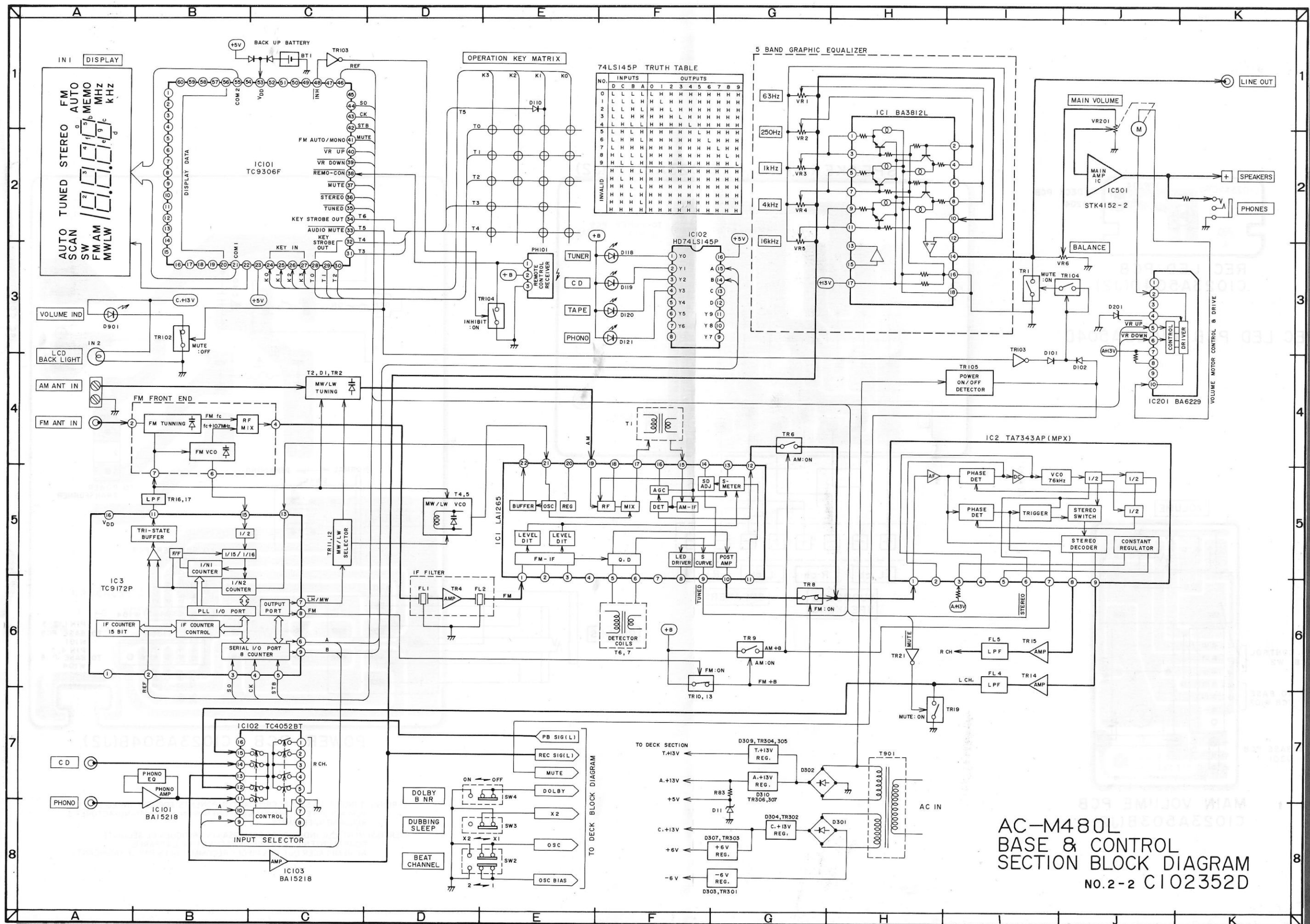
μPC1330 HA (Switch / buffer)

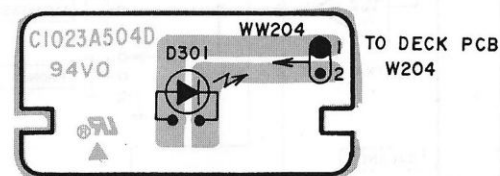


TC9306F-050 (System control MI-COM)

Pin No.	Symbol	I/O	Name	Discription
1 to 17	S7 to S23	O		Segment data output of LCD
18 to 21	S24 to S27	O		
22	COM1	O		Common 2 ouput of LCD
23	VDD	—		+ 5V
24 to 27	K ₀ to K ₃	I		Input port of key data.
28 to 32	T ₀ to T ₄	O		Strobe output for key matrix
33	T5	O	AUDIO MUTE	Audio mute control signal output
34	T6	O		
35	P3-2	I	TUNED	
36	P3-1	I	STEREO	FM STEREO/MONO mode input
37	P2-4	O	MUTE	Mute control signal output for TUNER section
38	P2-3	I	REMOCON	Remote control data input.
39	P2-2	O	VR DOWN	Main volume down control signal output
40	P2-1	O	VR UP	Main volume up control signal output
41	MUTE	O	FM AUTO	
42	STB	O		STROBE CLOCK } Serial data output for PLL synthesizer DATA } IC TC9172.
43	CK	O		
44	SO	O		
45	SI	I		Not used
46	REF	O		Reference signal output for PLL
47	INT	I		
48	INH	I		
49	TEST	I		
50	XT	—		
51	XT	—		
52	GND	—		
53	VDD	—		
54	COM2	O		Common 1 output of LCD
55 to 60	S1 to S6	O		Segment data output of LCD.

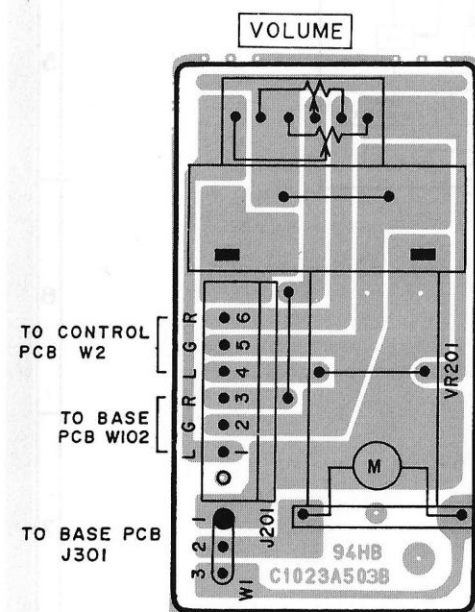




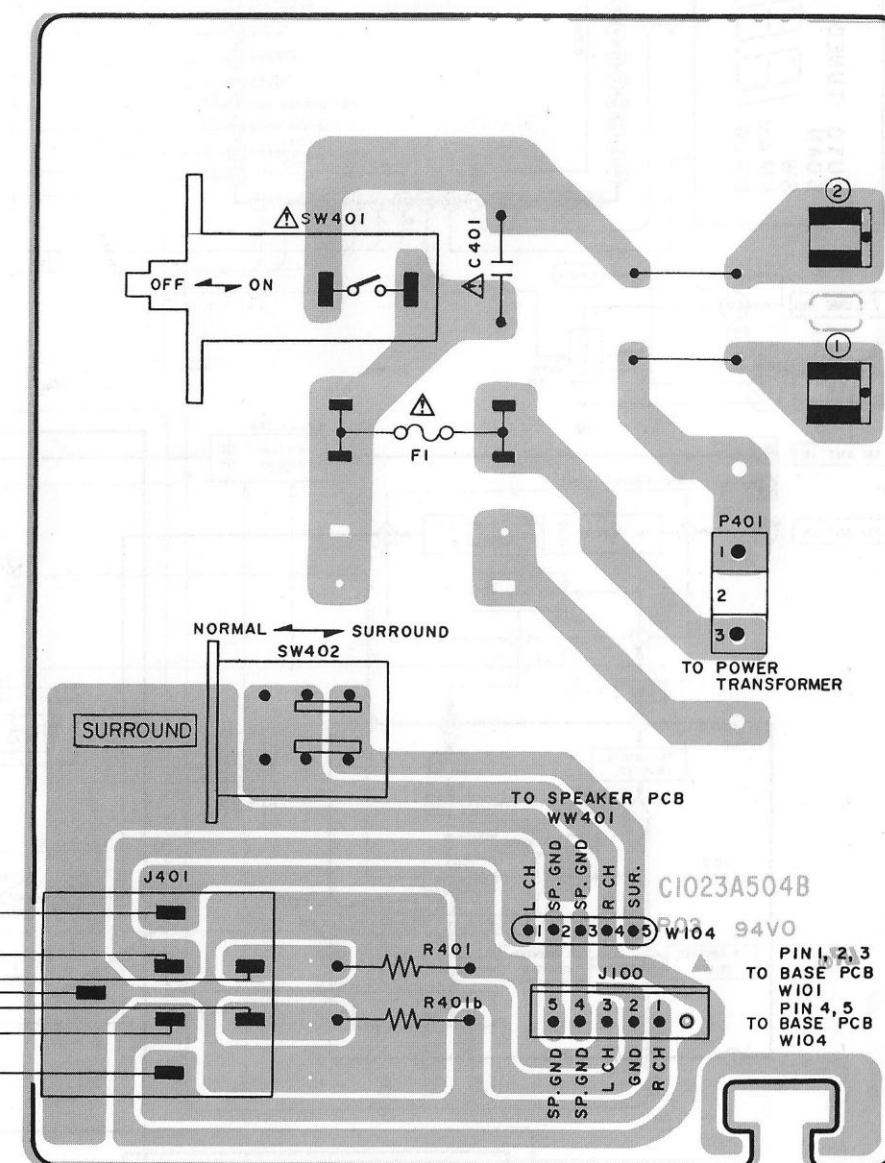
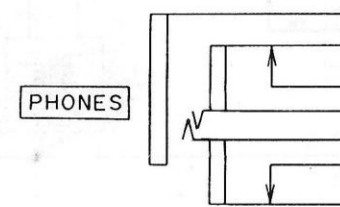
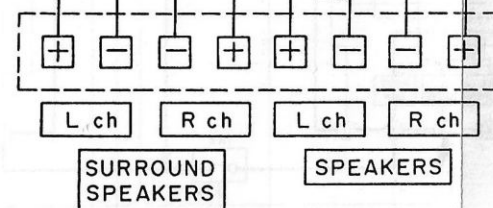
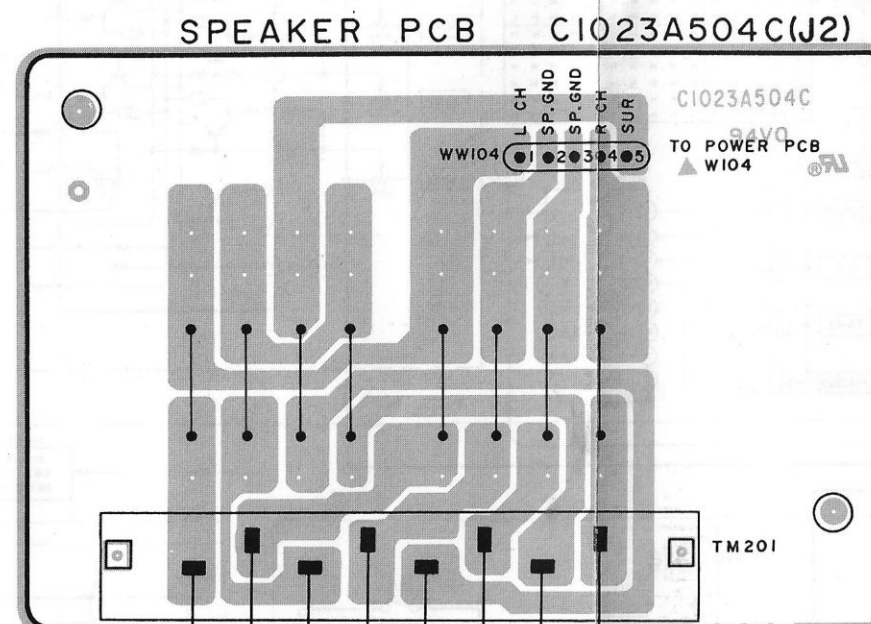


REC LED PCB
C1023A504D(J2)

REC LED PCB C1023A504D



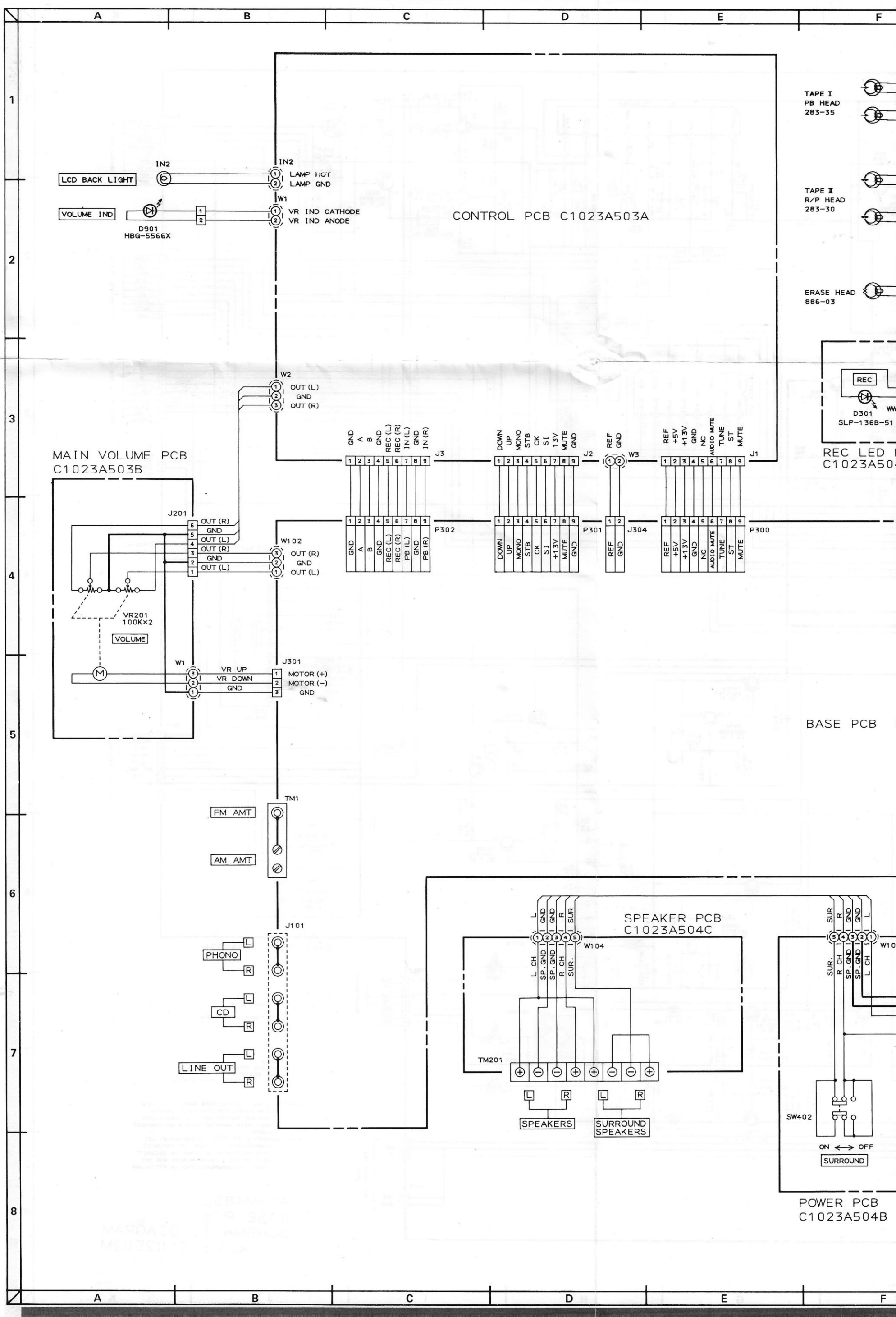
MAIN VOLUME PCB
C1023A503B(J2)

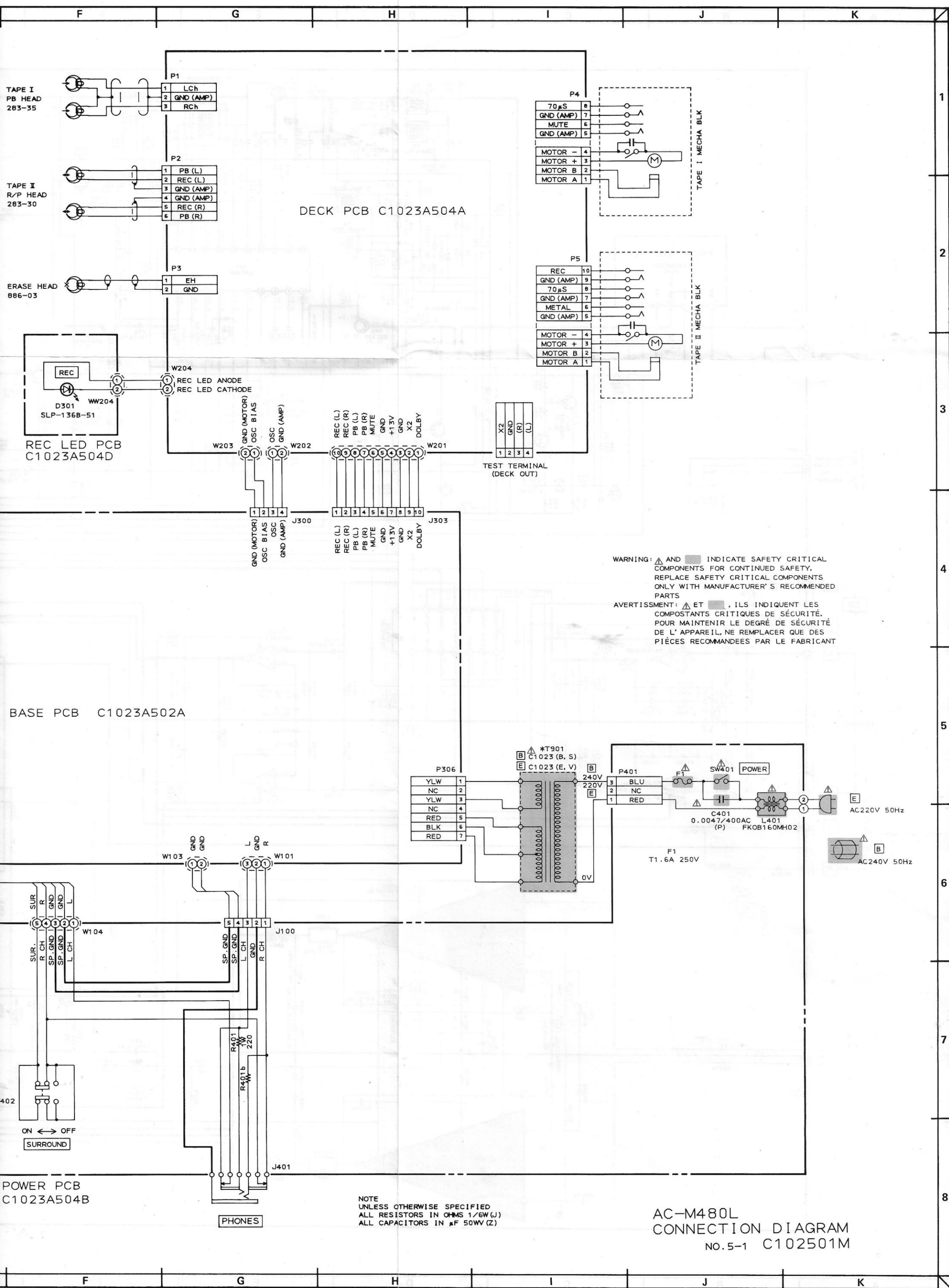


POWER PCB C1023A504B(J2)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



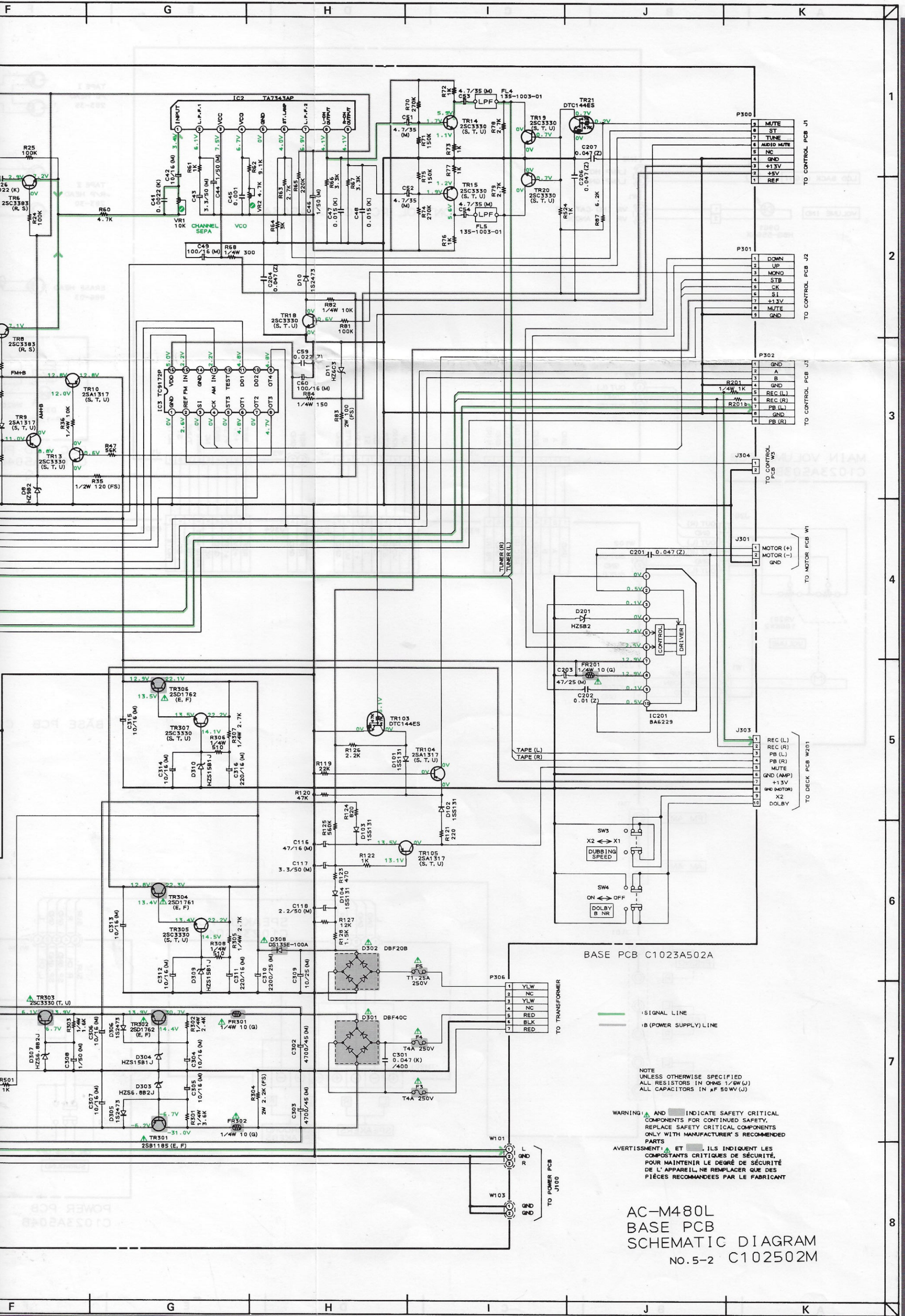


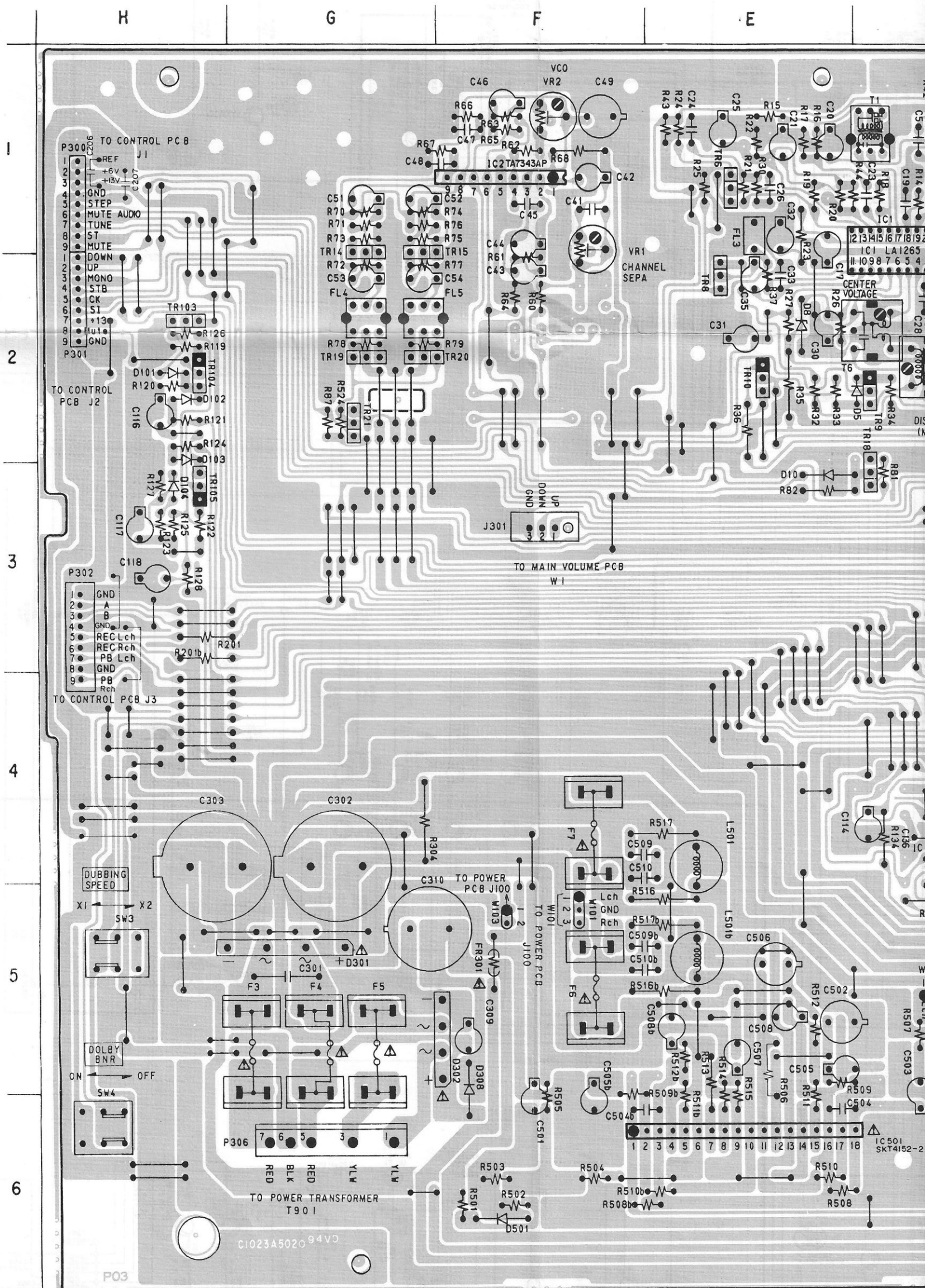
WARNING: ⚠ AND ■ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ ET ■, ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE
UNLESS OTHERWISE SPECIFIED,
ALL RESISTORS IN OHMS 1/5W(J)
ALL CAPACITORS IN µF 50WV(Z)

AC-M480L
CONNECTION DIAGRAM
NO. 5-1 C102501M





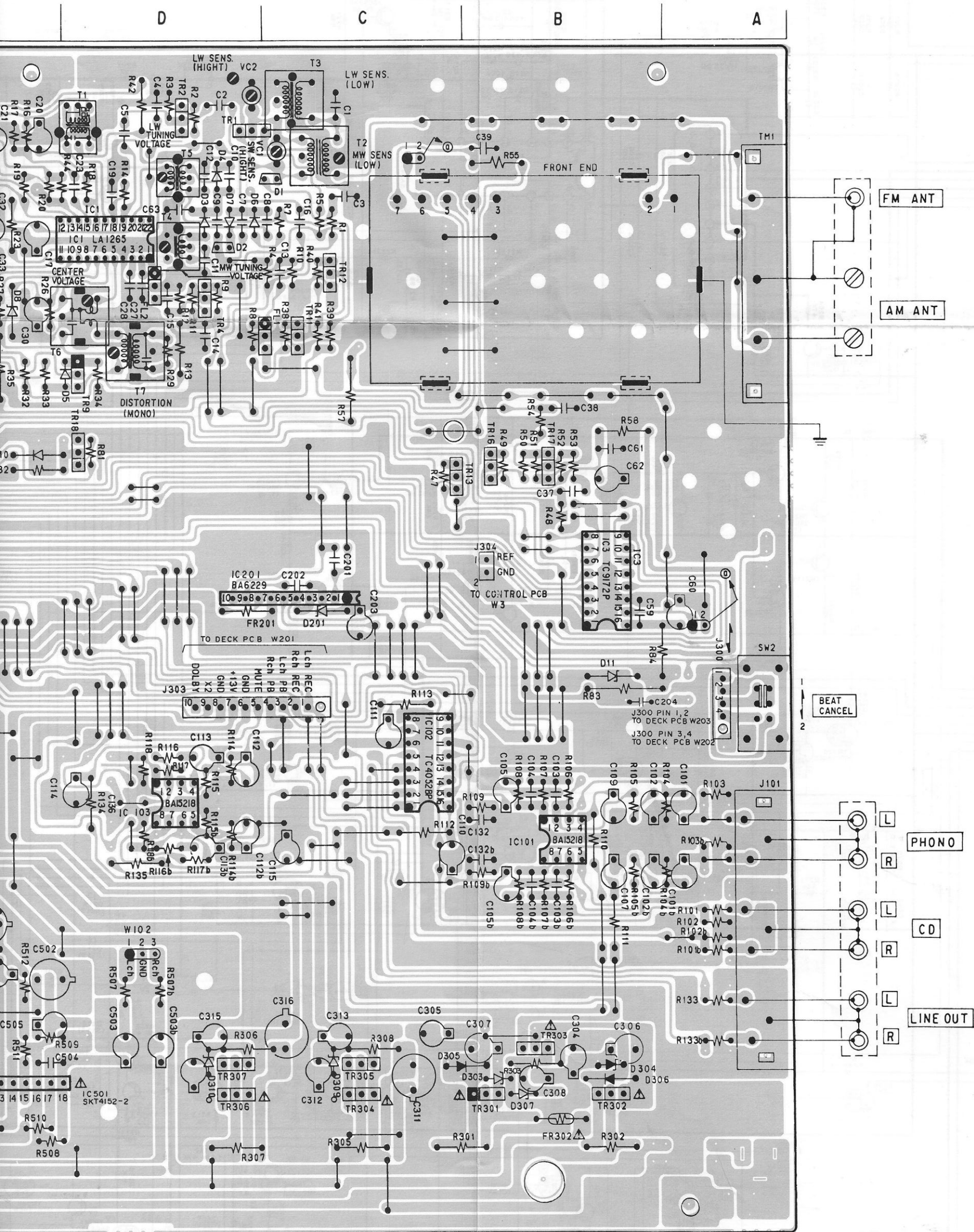
- ECB
2SC930
2SC2878
2SC3383
- ECB
2SC3330
2SA1317
DTC144WS
- BCE
2SD1761
2SD1762
- SGD
2SK246
- DSG
2SK161

B
• • • = NPN TRANSISTOR
B
• • • = PNP TRANSISTOR

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

BASE PCB C1023A502A



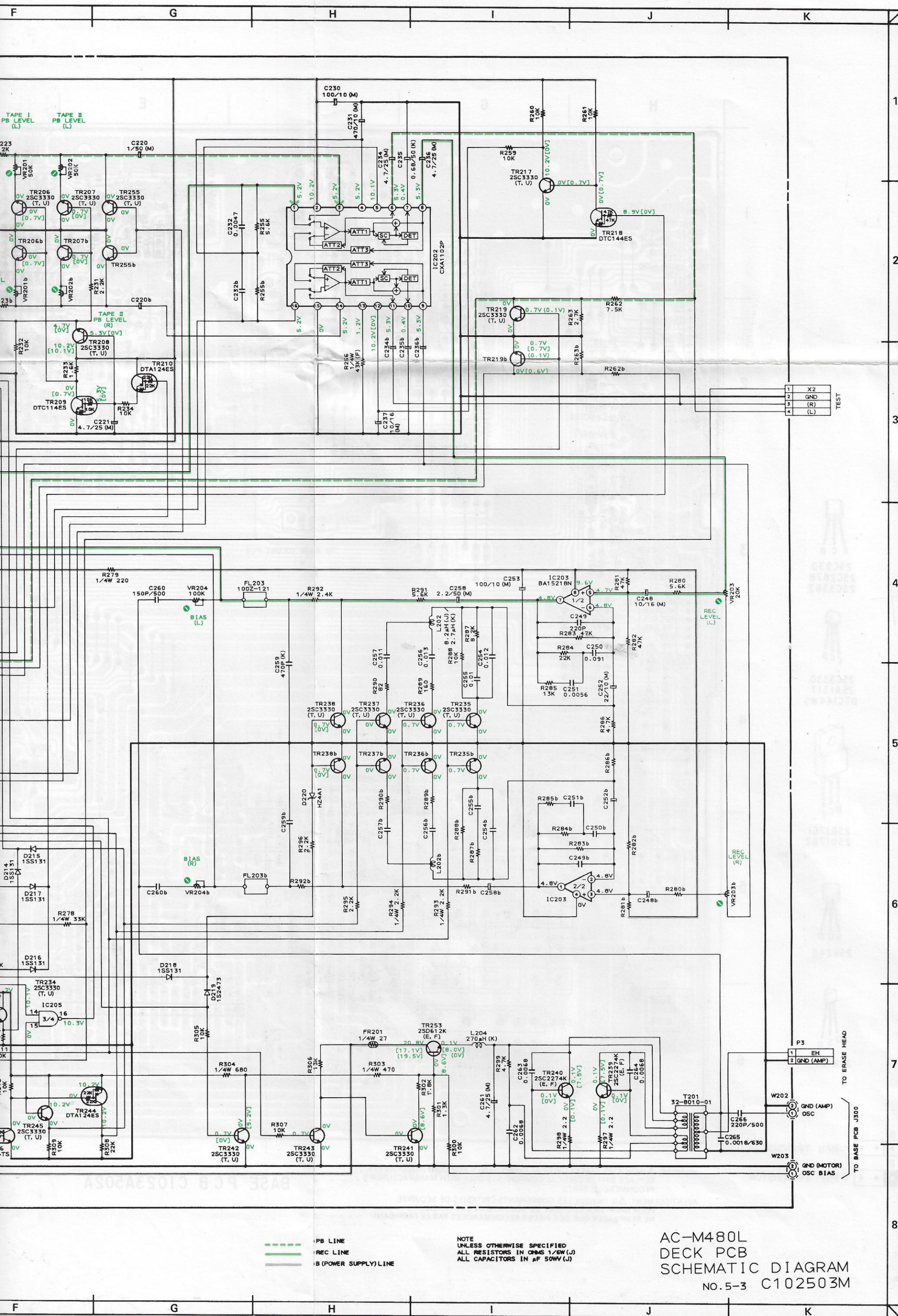
LOCATION OF COMPONENT

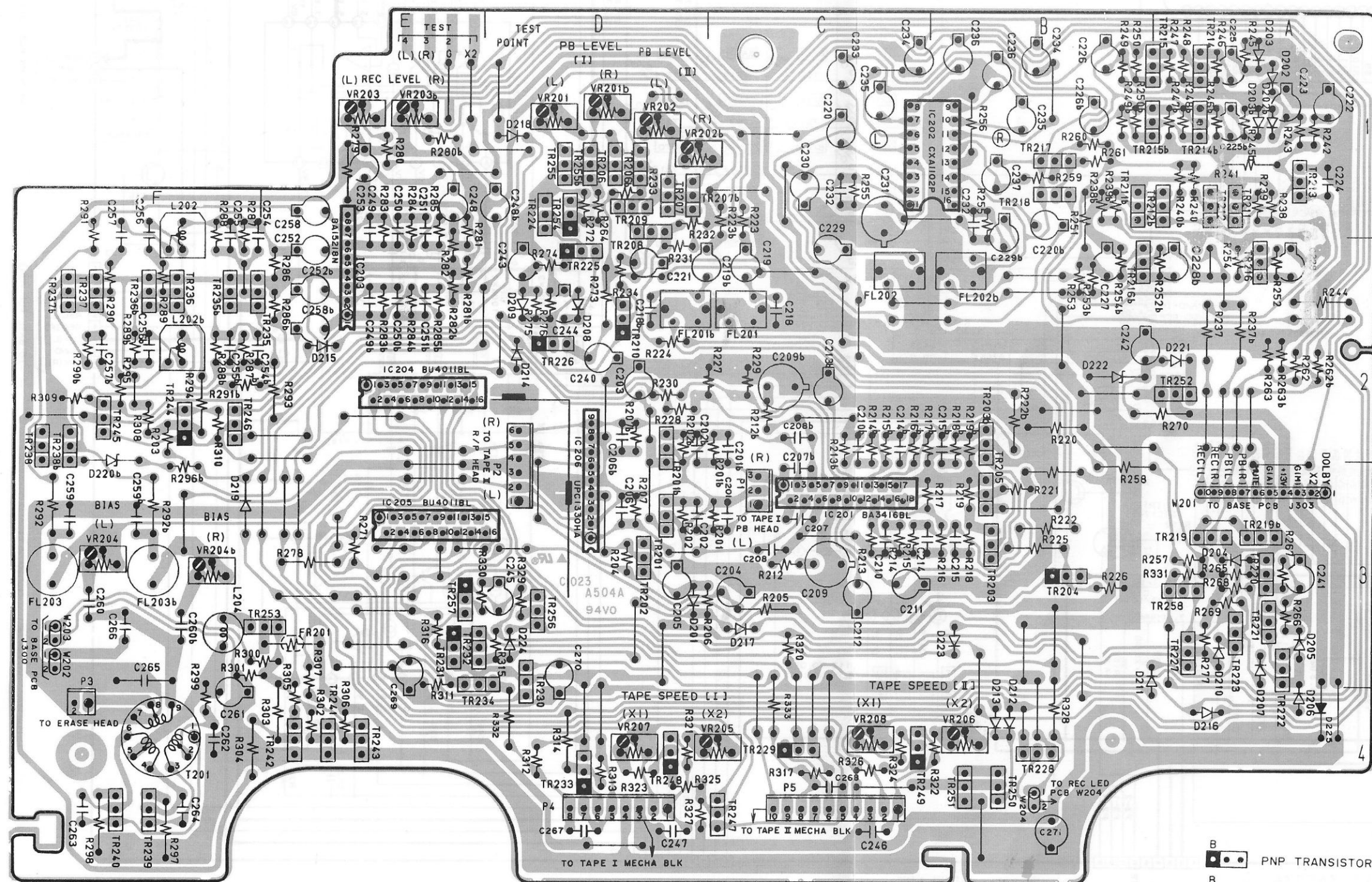
IC'S	
IC1	D1
IC2	F1
IC3	B3
IC101	B4
IC102	C4
IC103	D4
IC201	C3
IC501	E6

TRANSISTORS	
TR1	D1
TR2	D1
TR4	D2
TR6	E1
TR8	E2
TR9	D2
TR10	E2
TR11	C2
TR12	C2
TR13	C3
TR14	G1
TR15	G1
TR16	B3
TR17	B3
TR18	D3
TR19	G2
TR20	G2
TR21	G2
TR103	H2
TR104	H2
TR105	H3
TR301	B6
TR302	B6
TR303	B6
TR304	C6
TR305	C6
TR306	D6
TR307	D6

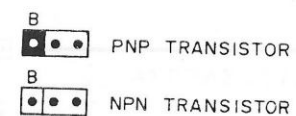
CONNECTORS	
J101	A5
J103	A6
J300	A2, 4
J301	F3
J303	D3, 4
P300	H1
P301	G2, H2
P302	H3





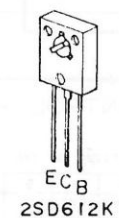


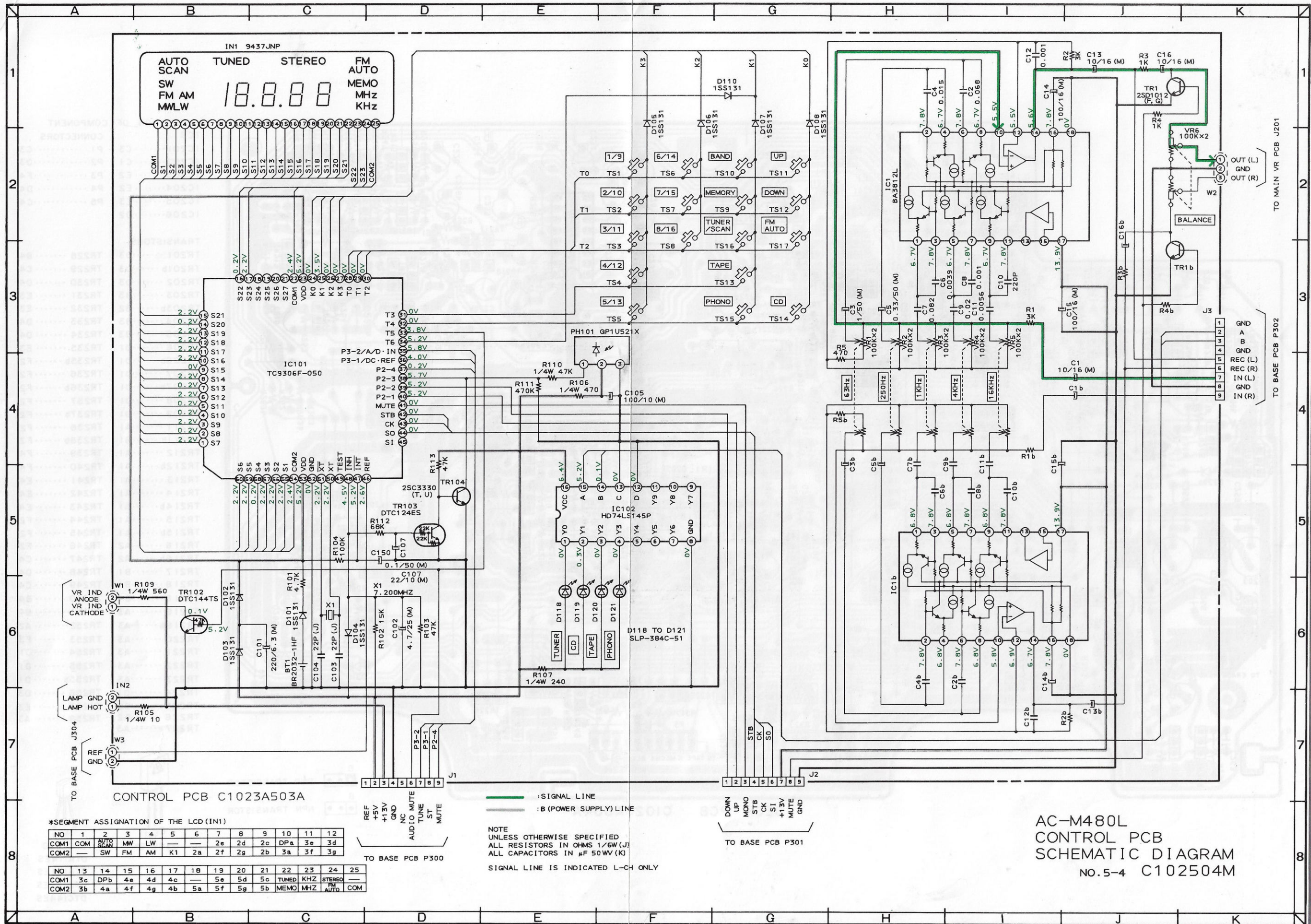
DECK PCB CI023A504A



LOCATION OF COMPONENT	
CONNECTORS	
ICS	
IC201.....C3	P1.....C3
IC202.....C1	P2.....D3
IC203.....E2	P3.....F4
IC204.....E2	P4.....D4
IC205.....E3	P5.....C4
IC206.....D2	

TRANSISTORS	
TR201.....D3	TR228.....B4
TR201b.....D3	TR229.....C4
TR202.....D3	TR230.....D4
TR203.....B3	TR231.....E3
TR203b.....B2	TR232.....E3
TR204.....B3	TR233.....D4
TR205.....B3	TR234.....D4
TR206.....D1	TR235.....E3
TR206b.....D1	TR235b.....F2
TR207.....D1	TR236.....F2
TR207b.....D1	TR236b.....F2
TR208.....D1	TR237.....F2
TR209.....D1	TR237b.....F2
TR211.....A1	TR238.....F2
TR211b.....B1	TR238b.....F2
TR212.....A1	TR239.....F4
TR212b.....A1	TR240.....F4
TR213.....A1	TR241.....E4
TR214.....A1	TR242.....E4
TR214b.....A1	TR243.....E4
TR215.....A1	TR244.....F2
TR215b.....A1	TR245.....F2
TR216.....A2	TR246.....F2
TR216b.....A2	TR247.....C4
TR217.....B1	TR248.....D4
TR218.....B1	TR249.....C4
TR218b.....B1	TR250.....B4
TR219.....A3	TR251.....B4
TR219b.....A3	TR252.....A2
TR220.....A3	TR253.....F3
TR221.....A3	TR254.....D1
TR222.....A3	TR255.....D1
TR223.....A3	TR255b.....D1
TR224.....D1	TR256.....D3
TR225.....D2	TR257.....E3
TR226.....D2	TR258.....A3
TR227.....A3	



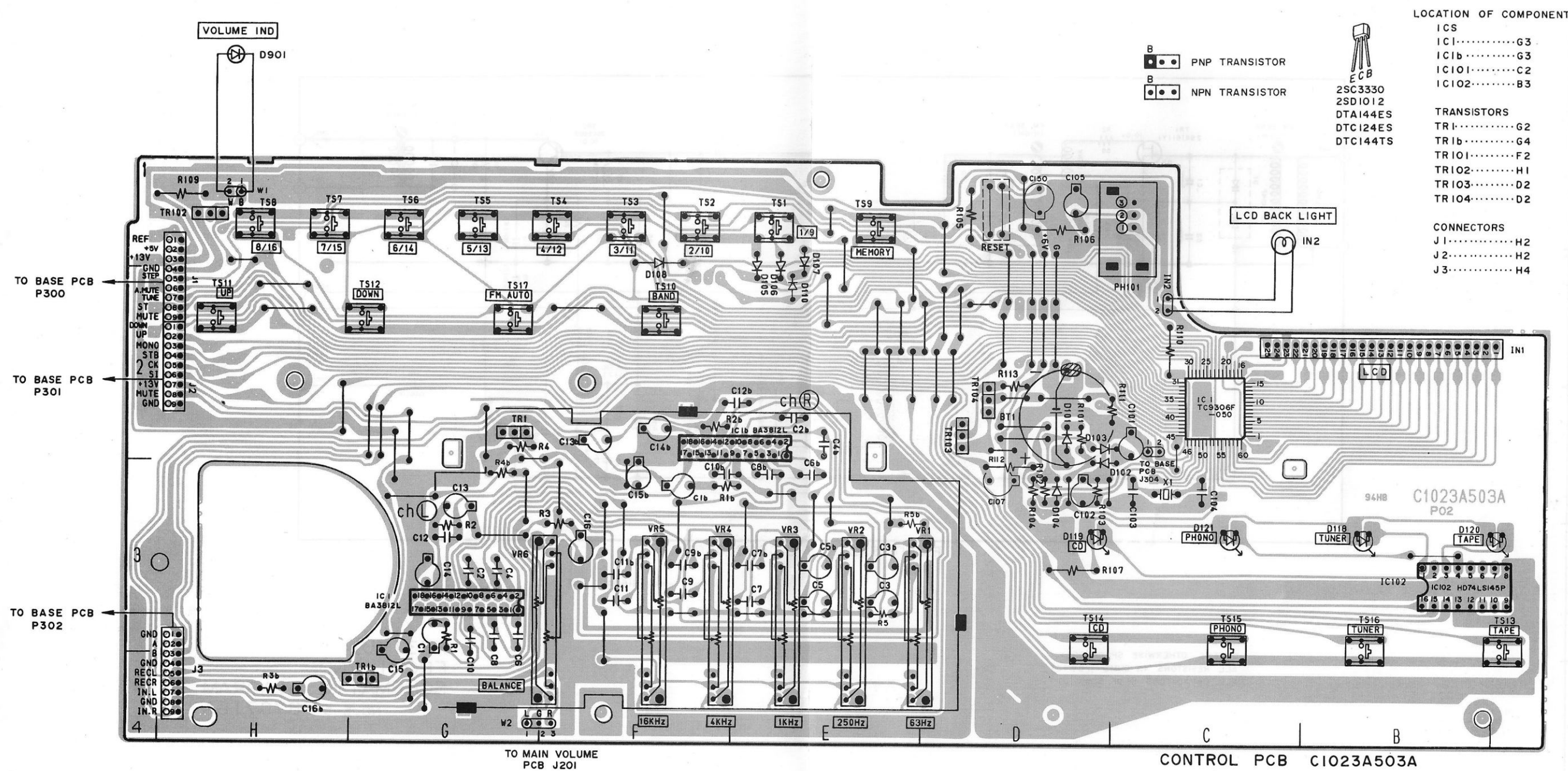


*SEGMENT ASSIGNMENT OF THE LCD (IN1)

NO	1	2	3	4	5	6	7	8	9	10	11	12
COM1	COM	DPb	4e	4d	4c	—	5e	5d	5c	TUNED	KHZ	STEREO
COM2	—	SW	FM	AM	LW	K1	2a	2f	2g	2b	3a	3d

NO	13	14	15	16	17	18	19	20	21	22	23	24	25
COM1	3c	DPb	4e	4d	4c	—	5e	5d	5c	TUNED	KHZ	STEREO	—
COM2	3b	4a	4f	4g	4b	5a	5f	5g	5b	MEMO	MHZ	FM	COM

AC-M480L
CONTROL PCB
SCHEMATIC DIAGRAM
NO.5-4 C102504M



LOCATION OF COMPONENT

ICS	
IC1	G3
IC1b	G3
IC101	C2
IC102	B3

ECB
2SC3330
2SD1012
DTA144ES
DTC124ES
DTC144TS

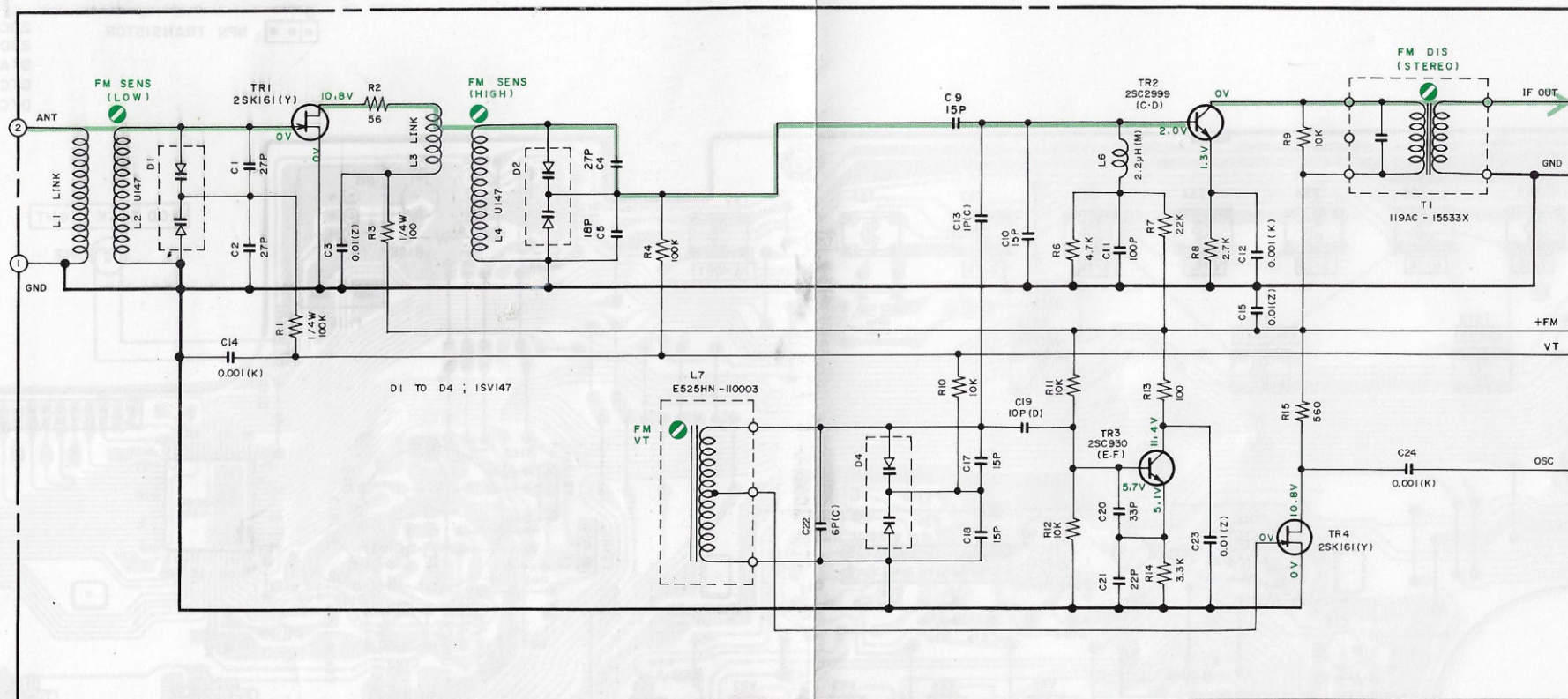
PNP TRANSISTOR
NPN TRANSISTOR

TRANSISTORS

TR1	G2
TR1b	G4
TR101	F2
TR102	H1
TR103	D2
TR104	D2

CONNECTORS

J1	H2
J2	H2
J3	H4



FRONT END PCB C1005B5040

— SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED;
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN μ F 50WV(J)

FE31 (U)
FRONT END
SCHEMATIC DIAGRAM
NO. 5-5 870716A