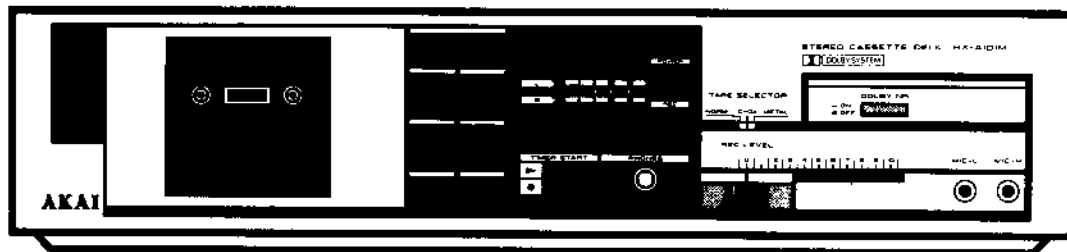


AKAI SERVICE MANUAL

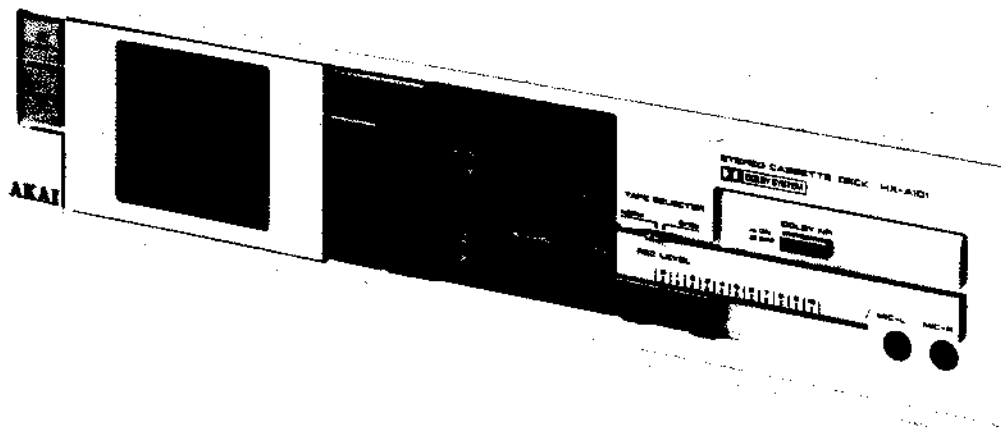


STEREO CASSETTE DECK

MODEL **HX-A101/M**

ABBREVIATIONS FOR SERVICE MANUAL
MODEL HX-A101/M

ABBREVIATION	EXPLANATION
ADJ	ADJust (ADJustment)
DIN	Deutsche Industrie Normen
FREQ.	FREQuency
IND	INDicator
LED	Light Emitting Diode
MIC	MICrophone
MPX	MultiPleX
PCB	Printed Circuit Board
S/N	Signal to Noise (Ratio)
SW	SWitch
TR	TRansistor



STEREO CASSETTE DECK

MODEL HX-A101/M

SECTION 1	SERVICE MANUAL	3
SECTION 2	PARTS LIST	11

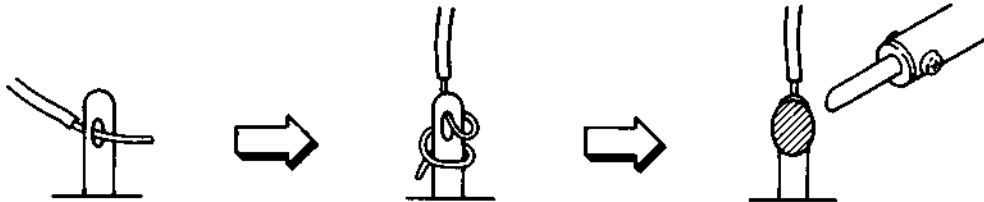
SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for **C** or **A**, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks, line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

1. Parts identified by the Δ symbol parts 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.



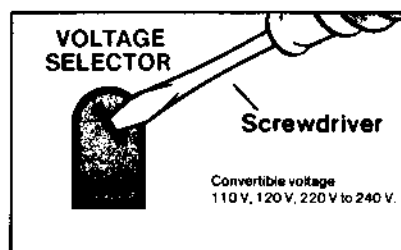
6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

VOLTAGE CONVERSION

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V, or 240V as required.

If your machine's voltage can be converted:

Before connecting the power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



SECTION 1

SERVICE MANUAL

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I. SPECIFICATIONS	4
II. DISMANTLING OF UNIT	5
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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

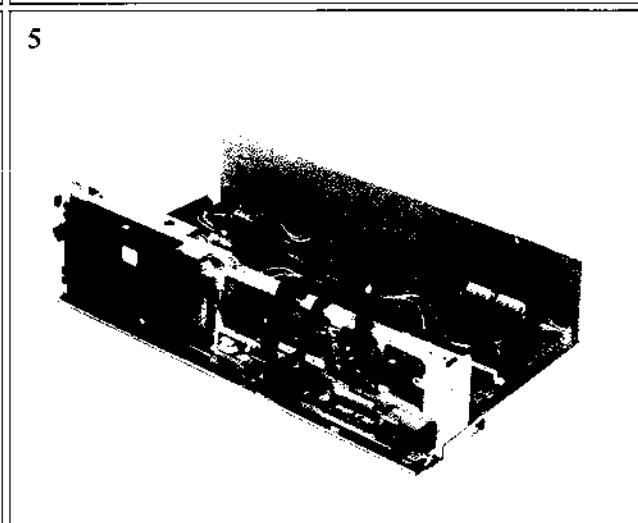
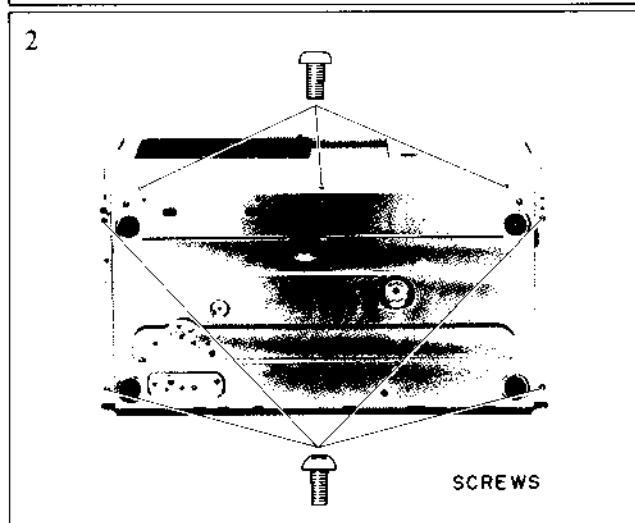
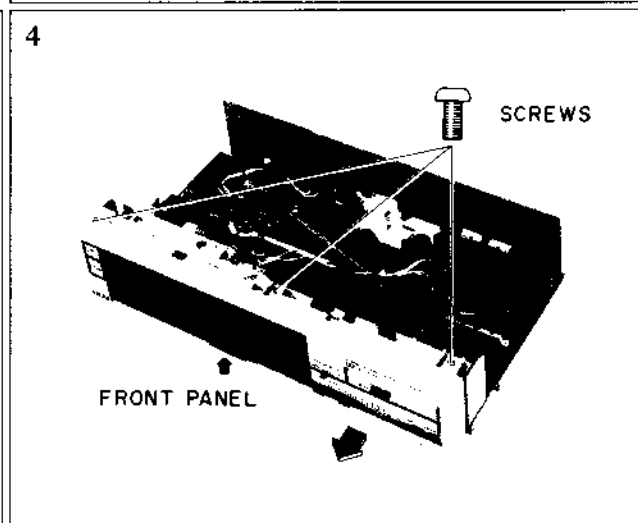
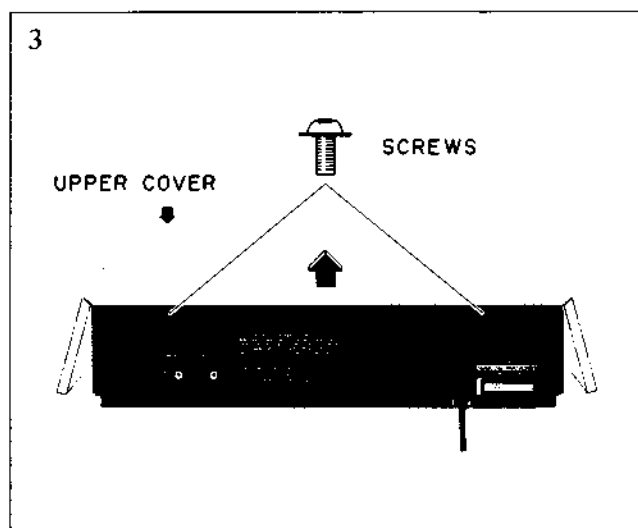
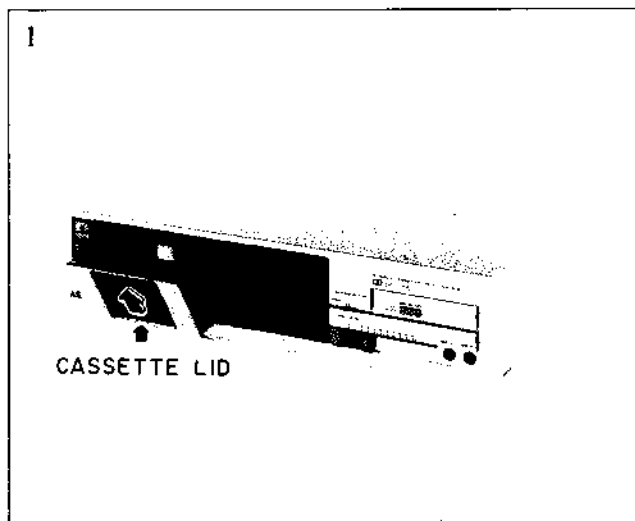
TRACK SYSTEM	4 tracks 2 channel stereo
TAPE	Phillips type cassette
HEADS	HD head for recording and playback × 1 Erase head × 1
MOTOR	Electronically speed controlled DC motor × 1
WOW & FLUTTER	0.05% WRMS (JIS), 0.12% (DIN 45 500)
FREQUENCY RESPONSE (at -20 VU)	Normal 30 Hz to 15,000 Hz ±3 dB CrO ₂ 30 Hz to 16,000 Hz ±3 dB Metal 30 Hz to 17,000 Hz ±3 dB (Except HX-A101/B)
S/N	56 dB (Metal) Dolby NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz
HARMONIC DISTORTION	Less than 0.7%
INPUT SENSITIVITY/IMPEDANCE	MIC 0.25 mV/5 kohms (Required microphone impedance 600 ohms) LINE 70 mV/47 kohms DIN 2 mV/10 kohms (HX-A101M-G/M-GB only)
OUTPUT SENSITIVITY/IMPEDANCE	LINE 380 mV/1.5 kohms DIN 390 mV/1.5 kohms (HX-A101M-G/M-GB only) Headphones 0.3 mW/ohms
POWER REQUIREMENTS	120V, 60 Hz for USA & Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK & Australia 110/120/220/240 V, 50/60 Hz convertible for other countries
DIMENSIONS	440 (W) × 110 (H) × 255 (D) mm (17.3 × 4.3 × 10.0 inches)
WEIGHT	3.2 kg (7.1 lbs)

* For improvement purposes, specifications and design are subject to change without notice.

* Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

II. DISMANTLING OF UNIT

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



III. CONTROLS

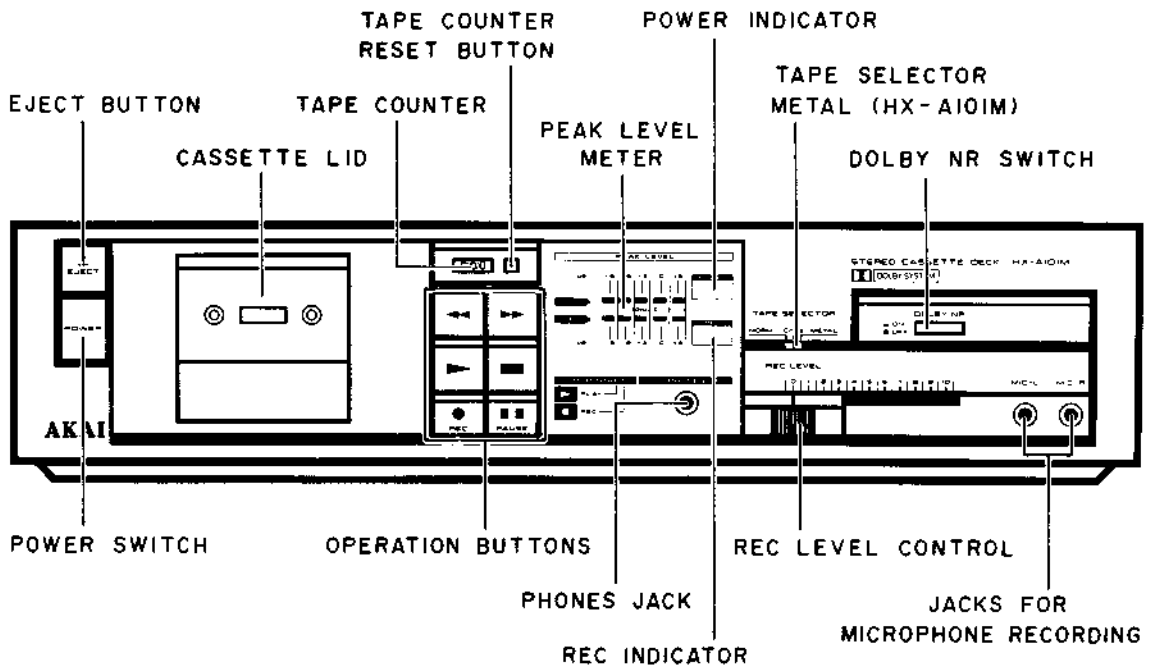


Fig. 3-1

IV. PRINCIPAL PARTS LOCATION

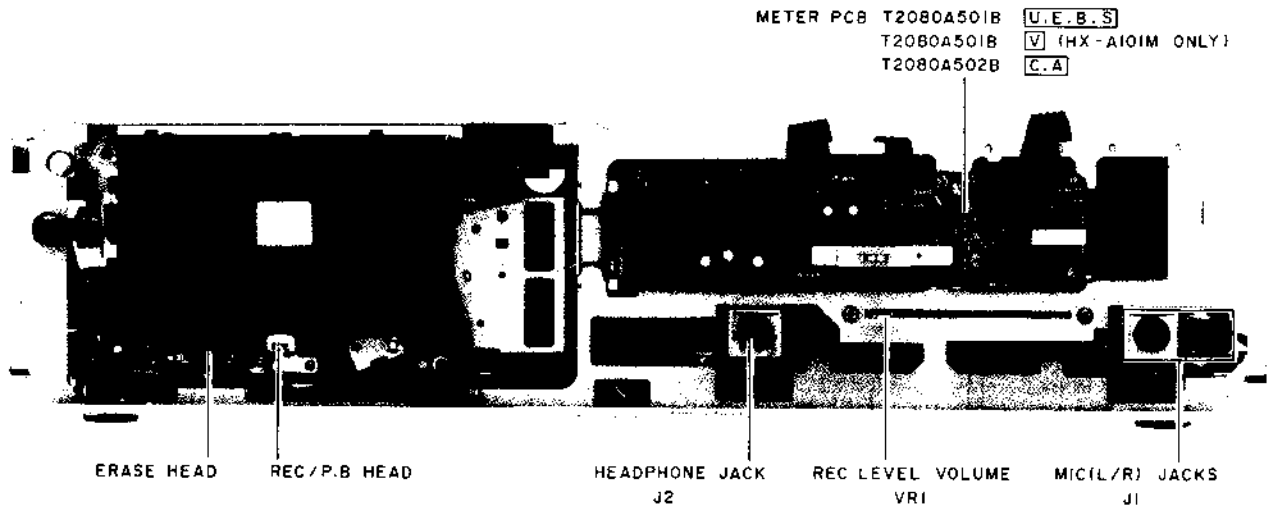


Fig. 4-1

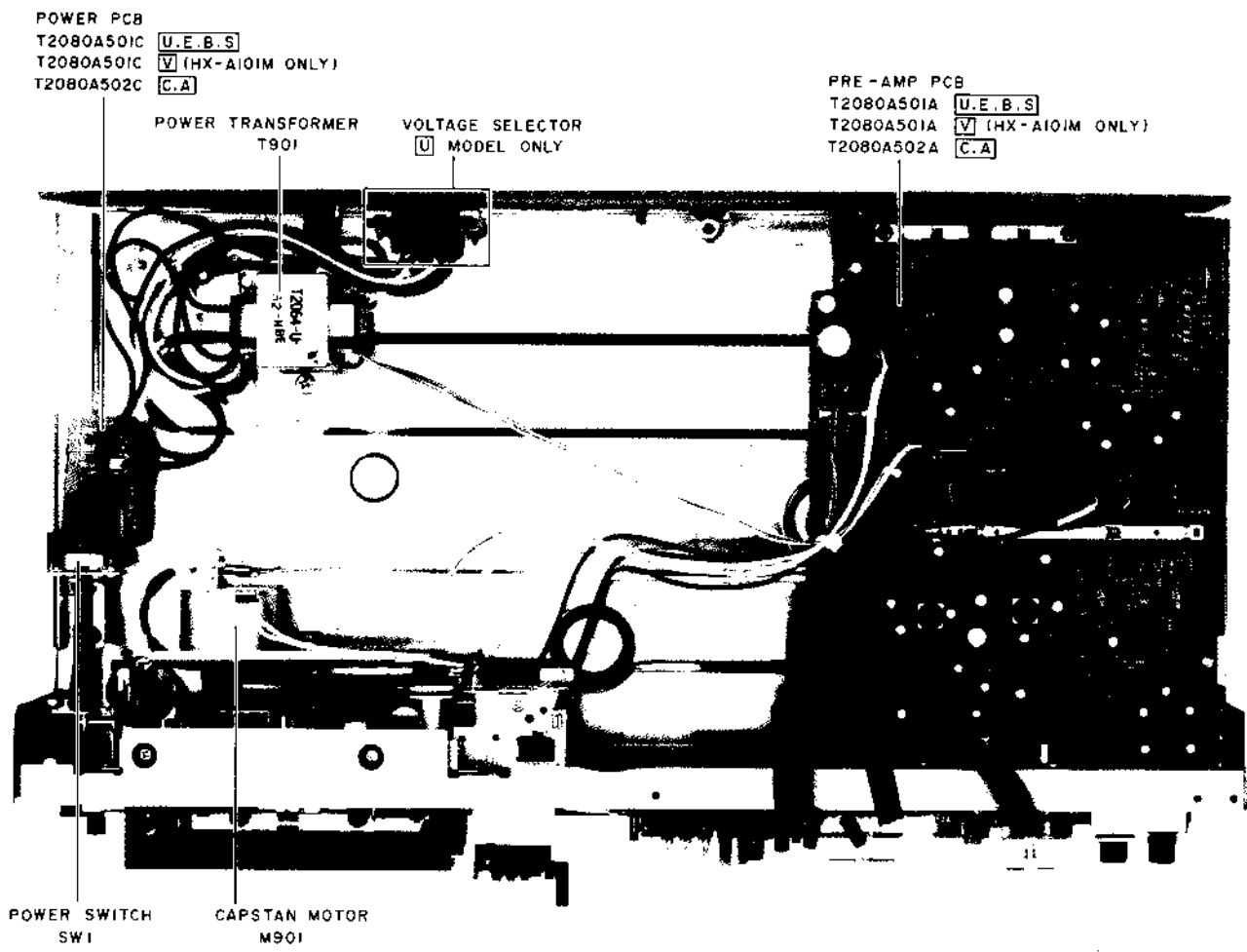


Fig. 4-2

V. MECHANICAL ADJUSTMENT

5-1 PINCH ROLLER PRESSURE MEASUREMENT

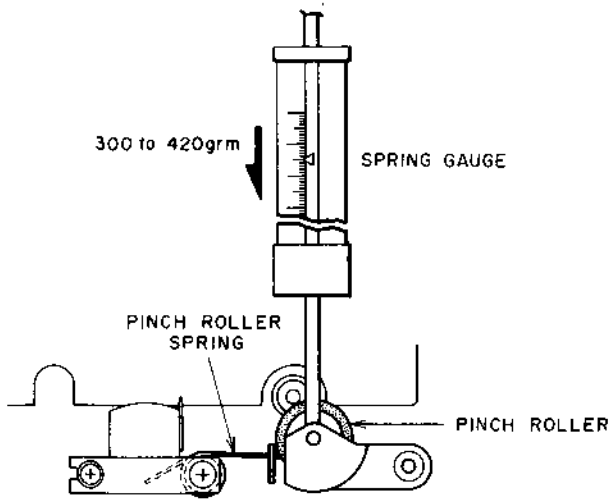


Fig. 5-1

Put in PLAY mode. Push pinch roller arm down with the spring gauge, push the pinch Roller 1 to 2 mm from the Capstan and release slowly. Read the spring gauge at the moment the pinch roller touches the capstan and begins to rotate. Specified contact pressure measurement of 300 to 420 g. If there is no measurement obtained, Adjust or Replace the pinch Roller spring.

5-2 WINDING TORQUE MEASUREMENT IN EACH MODE

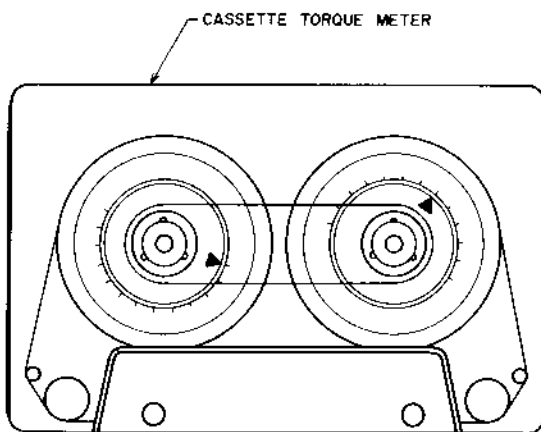


Fig. 5-2

Insert cassette torque meter (AJ-751179) and measure in each mode.

PLAY mode

Take up Torque: 40 to 70 g-cm

Back tension torque: 1 to 6 g-cm

FAST FORWARD, REWIND mode

Take up Torque: 70 to 150 g-cm

5-3 TAPE SPEED ADJUSTMENT

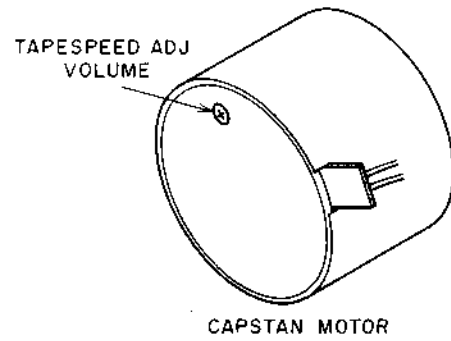


Fig. 5-3

Connect a frequency Counter to Line output terminals. Play Back a 3,150 Hz Tape Speed Test Tape (AT-751263) and adjust a Tape Speed Adjustment Volume (see Fig. 5-3) to obtain a tape speed of $3,150 \pm 30$ Hz.

5-4 REC/PB HEAD AZIMUTH ADJUSTMENT

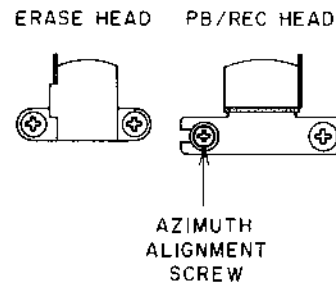


Fig. 5-4

Play Back a 10 kHz Azimuth Alignment tape (AT-750778) and Adjust the Azimuth Alignment Screw, until the output levels of both channels are maximum. After Adjustment, Paintlock the Azimuth Alignment Screw.

5-5 JOINT REC ADJUSTMENT

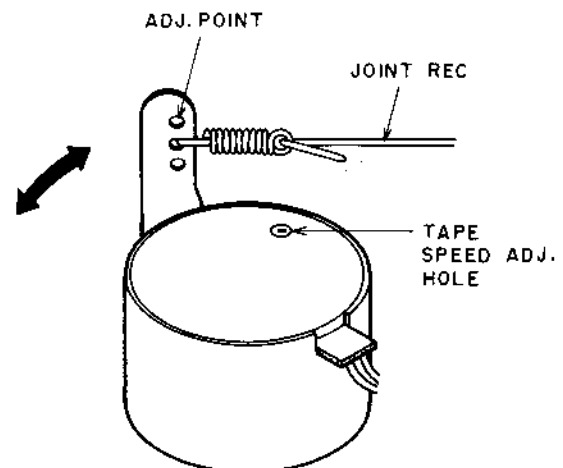


Fig. 5-5

Adjust adjustment point of JOINT REC so that SW1 is pulled completely at REC mode, it is released at PB mode.

VI. PRE-AMPLIFIER ADJUSTMENT

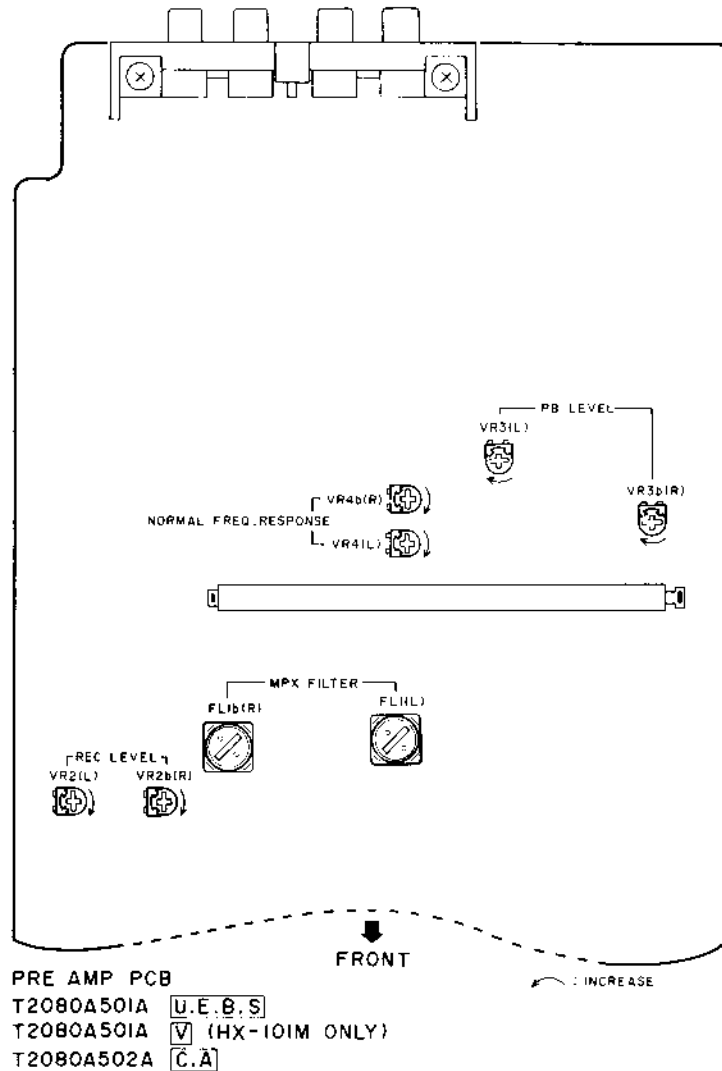


Fig. 6-1 Pre-Amp PCB ADJ Points

PRE AMP ADJUSTMENT CHART

Step	Adjustment Item	Test Tape & Supply signal	Mode	Adjustment Parts	Result	Remarks
1	PB LEVEL	315 Hz	PB	VR 3	-6.0 ± 0.2 dBm	
2	NORMAL POSITION FREQUENCY RESPONSE	NORMAL Blank Tape 1 kHz, 10 kHz -26.0 dBm	REC/PB	VR 4	1 kHz, 10 kHz -26.0 ± 0.3 dBm	
3	REC LEVEL	NORMAL Blank Tape 315 Hz, -6.0 dBm	REC/PB	VR 2	-6.0 ± 0.5 dBm	
4	MPX Filter	19 kHz	REC	FL 1	OUTPUT minimum	Less than -30 dBm

- NOTE:**
- All adjustments are without Dolby.
 - Use the following cassette measuring tapes:
 NORMAL TAPE : Maxell UDI C-60
 CrO₂ TAPE : TDK SA C-60
 METAL TAPE : TDK MA C-60

VII. PC BOARD TITLES AND IDENTIFICATION NUMBERS

PC Board Title	PC Board Number	Remarks
PRE-AMP PC BOARD	T2080A501A	<input type="checkbox"/> U, <input type="checkbox"/> E, <input type="checkbox"/> B, <input type="checkbox"/> S, <input type="checkbox"/> V
	T2080A502A	<input type="checkbox"/> C, <input type="checkbox"/> A
METER PC BOARD	T2080A501B	<input type="checkbox"/> U, <input type="checkbox"/> E, <input type="checkbox"/> B, <input type="checkbox"/> S, <input type="checkbox"/> V
	T2080A502B	<input type="checkbox"/> C, <input type="checkbox"/> A
POWER PC BOARD	T2080A501C	<input type="checkbox"/> U, <input type="checkbox"/> E, <input type="checkbox"/> B, <input type="checkbox"/> S, <input type="checkbox"/> V
	T2080A502C	<input type="checkbox"/> C, <input type="checkbox"/> A

* V MODEL is HX-A101M only.

SECTION 2

PARTS LIST

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2. PC BOARD BLOCK	16
3. PRE AMP PC BOARD	16
4. METER PC BOARD	16
5. POWER PC BOARD	16
6. ASSEMBLY BLOCK	16
7. FINAL ASSEMBLY BLOCK	18
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Resistors and Capacitors which are not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

1. When placing an order for parts, be sure to list the parts no., model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because part numbers and part definitions and supply in the Preliminary Parts List 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 shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
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

b) P.C Board Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	CS ANGLE ADJUST SPRING

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

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

This number corresponds with the Figure Number

6. SYS. CON. P C BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
6-1C1	EI-324536	IC HD14049BP
6-1C2	EI-336801	IC MB8841-564M
6-1C3	EI-331661	IC SN7405N
6-1C4	EI-336725	IC M54527P
6-TR1to4	ET-200985	TR 2SC2603 F,G
6-TR5to28	ET-554657	TR 2SA733A P,Q
6-D1	ED-318292	D SILICON H 1S2473T-77 T26
6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
6-X1	EI-318384	OSC X'TAL NC.18C 3.579545MHZ

SP (Service Parts) Classification

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

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

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

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

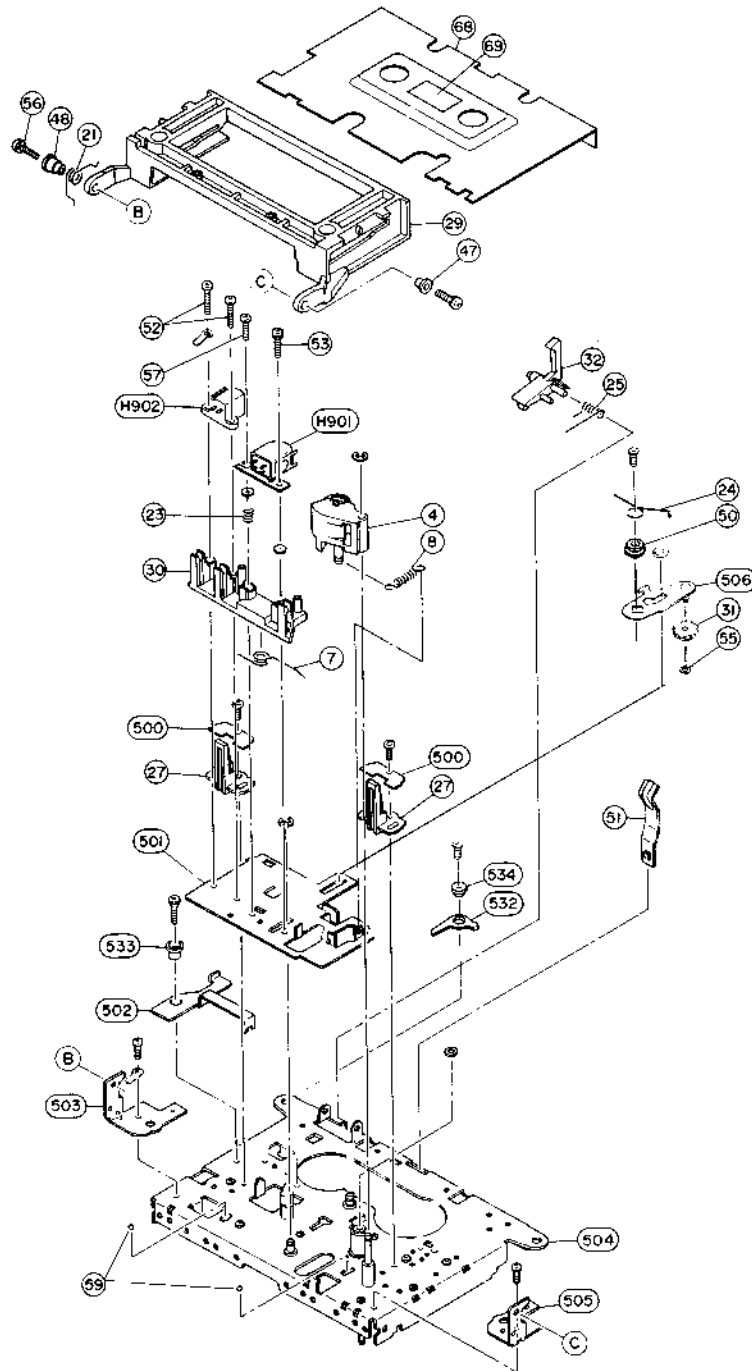
NO.	PART NO.	DESCRIPTION
1	N BL-716238	PINCH ROLLER ASSY
2	N BM-716313	△ MOTOR ASSY W/PULLEY EG-500AD-2B
3	BT-354051	△ TRANS POWER T2064 (A,C)
4	BT-354053	△ TRANS POWER T2064 (B,S)
5	BT-354052	△ TRANS POWER T2064 (E,V,Y1)
6	BT-354050	△ TRANS POWER T2064 (U)
7	N BZ-716350	REEL BLK
8	ED-330319	△ D SILICON DBA10B 100/1.0A
9	ED-324014	△ D ZENER H HZ11 B1
10	N ED-358085	D LED GL-9NG23 GRN
11	ED-351881	D LED GL-9PR23 RED
12	N ED-358087	D LED SLP-175B-50 RED
13	ED-349617	D LED SLP-475B-50 YELLOW
14	ED-301911	D SILICON H DS448
15	N EF-358974	△ FUSE BET T 250V 0.63A [B]
16	EF-318608	△ FUSE GGS A 250V 1.00A [C,A]
17	EF-601942	△ FUSE SEMKO T 630MA 250V [U,E,V,S]
18	EH-354528	FILTER DOLBY FX-100B
19	EI-353289	IC IR2E27A
20	EI-349591	IC LA2730
21	EI-353227	IC M5216L
22	EO-349589	COIL OSC 1 32-5016-12
23	N ES-358581	△ SW PUSH J-U3065 01-1
24	ES-305733	△ SW SELECTOR HXW0131-260 01-4 [U]
25	ES-715649	SW LEAF LSA-1119E
26	ES-347966	SW PUSH ESB-649 01-2-2 N
27	N ES-358797	SW SLIDE CL112K
28	ES-358508	SW SLIDE SSY063
29	ET-310148	△ TR 2SD612K E,F
30	ET-308472	TR 2SA1115 E,F,G
31	N ET-353377	TR 2SB774 S,T
32	ET-308977	TR 2SC2274K F
33	ET-349705	TR 2SC2320 E,F,G
34	ET-344275	TR 2SC2320L F,G
35	ET-308141	TR 2SC2603 G
36	ET-357845	TR 2SC242A F,G
37	N EV-357619	R S-FIX H H0615C 3P 104
38	N EV-356582	R S-FIX H H0615C 3P 473
39	N EV-358082	VR SLIDE 60P2SVON A503x2
40	HE-337047	HEAD E HAJAB3040A C
41	N HR-358778	HEAD R/P HAYSH4434A
42	N MB-716288	BELT CAPSTAN
43	N MB-358071	BELT 0.8xD54 CRHS65
44	N MB-716266	BELT 1.0x40.0-60
45	N MB-716282	BELT 1.2x50.0-65
46	N MC-358780	COUNTER MK395-065
47	N MI-716240	FLYWHEEL
48	N MZ-716239	GEAR AUTO WORM ASSY 8RA
49	N MZ-716281	GEAR CAPSTAN
50	N MZ-716285	GEAR DRIVE
51	N MZ-716287	GEAR REALY PULLEY
52	N MZ-716284	GEAR RF DRIVE
53	N MZ-716271	GEAR TAKE-UP

“NOTE” N: New Parts

SYMBOL FOR DESTINATION

- [A] : AAL (U.S.A)
- [B] : UK (England)
- [C] : CSA (Canada)
- [E] : CEE (Europe)
- [S] : SAA (Australia)
- [U] : U/T (Universal Area)
- [V] : VDE (West Germany)

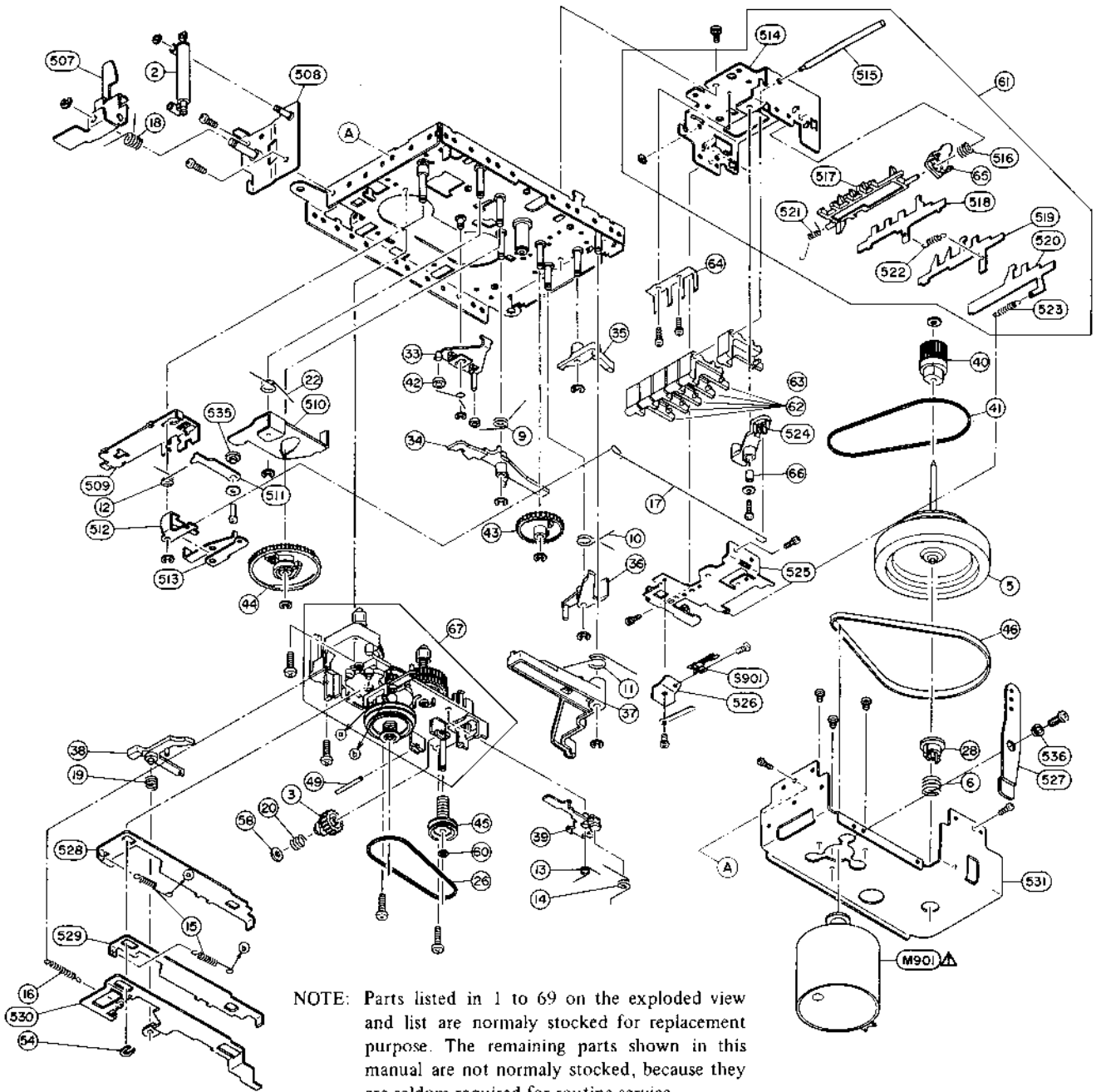
MECHA BLOCK



I. MECHA BLOCK

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
MECHA BLOCK					
1-1	BB-T2080A300A	MECHA C-8F 34A (12V) BLK HX-A101	1-19	ZG-716256	SP ARM AUTO
1-2	TC-716237	DAMPER ASSY	1-20	ZG-716257	SP AUTO WORM
1-3	MZ-716239	GEAR AUTO WORM ASSY 8RA	1-21	ZG-716258	SP LID CASE
1-4	BL-716238	PINCH ROLLER ASSY	1-22	ZG-716259	SP ARM PLAY
1-5	MI-716240	FLYWHEEL	1-23	ZG-716260	SP R/P HEAD
1-6	ZG-716241	SP CAPSTAN THRUST	1-24	ZG-716261	SP TAKE-UP
1-7	ZG-716243	SP HEAD PANEL	1-25	ZG-716262	SP REC SENSER
1-8	ZG-716244	SP PINCH ROLLER	1-26	MB-716266	BELT 1.0×40.0-60
1-9	ZG-716245	SP RETURN	1-27	TC-716267	GUIDE CASSETTE
1-10	ZG-716246	SP RF TRIGGER	1-28	MZ-716268	CAPSTAN THRUST
1-11	ZG-716247	SP RP TRIGGER	1-29	TC-716269	LID CASE
1-12	ZG-716248	SP LEVER REC	1-30	HZ-716270	HEAD BASE
1-13	ZG-716249	SP STOP	1-31	MZ-716271	GEAR TAKE-UP
1-14	ZG-716250	SP CANCEL	1-32	MZ-716272	REC SENSER
1-15	ZG-716251	SP RF	1-33	ML-716273	ARM BRAKE
1-16	ZG-716252	SP LEVER AUTO	1-34	ML-716274	LEVER RETURN
1-17	MZ-716254	WIRE REC	1-35	ML-716276	LEVER PAUSE TRIGGER
1-18	ZG-716255	SP CASE LOCK	1-36	ML-716277	LEVER RF TRIGGER
			1-37	ML-716278	LEVER RP TRIGGER
			1-38	ML-716279	ARM AUTO

PARTS LIST



REF. NO.	PART NO.	DESCRIPTION
1-39	ML-716280	ARM CANCEL
1-40	MZ-716281	GEAR CAPSTAN
1-41	MB-716282	BELT 1.2x50.0-65
1-42	MB-716283	BRAKE RUBBER
1-43	MZ-716284	GEAR RF DRIVE
1-44	MZ-716285	GEAR DRIVE
1-45	MZ-716287	GEAR RELAY PULLEY
1-46	MB-716288	BELT CAPSTAN
1-47	ZW-716289	COLLAR CASE (R)
1-48	ZW-716290	COLLAR CASE (L)
1-49	MS-716291	SHAFT 2.0x19.0
1-50	ZW-716292	COLLAR
1-51	ZG-716293	SP CASSETTE HOLDER
1-52	ZS-716294	BID20x014STL CMT
1-53	ZS-716295	PAN20x014STL CMT SW
1-54	ZW-716296	RING G G-2.5
1-55	ZW-716298	PW17x032x025 PSL CUT
1-56	ZS-716299	PAN30x012STL CMT SW
1-57	ZS-716300	BID20x013STL CMT
1-58	ZW-716301	PW20x080x025 PSL

REF. NO.	PART NO.	DESCRIPTION
1-59	MV-716302	BALL M3
1-60	ZW-716303	PW17x032x025 PSL CUT
1-61	SB-716304	BUTTON OPERATION ASSY
1-62	ML-716305	LEVER KEY
1-63	ML-716306	LEVER PAUSE KEY
1-64	ZG-716307	SP LEVER KEY
1-65	MI-716309	CAM PAUSE
1-66	ML-716311	LEVER REC
1-67	BZ-716350	REEL BLK
1-M901	BM-716313	Δ MOTOR ASSY W/PULLEY EG-500AD-2B
1-S901	ES-715649	SW LEAF LSA-1119E
1-H901	HR-358778	HEAD R/P HAYSH4434A
1-H902	HE-337047	HEAD E HAJAB3040A C
ASSEMBLY BLOCK		
1-68	BD-358779	LID DECORATION
1-69	SZ-360110	REFLECTER

PARTS LIST

2. PC BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1A	BA-T2080A020A	PC PRE AMP BLK HX-A101(U)
2-1B	BA-T2080A020B	PC PRE AMP BLK HX-A101(C,A)
2-1C	BA-T2080A020C	PC PRE AMP BLK HX-A101(E,B,S)
2-1D	BA-T2080A020D	PC PRE AMP BLK HX-A101M(V)
2-1E	BA-T2080A020E	PC PRE AMP BLK HX-A101M(U)
2-1F	BA-T2080A020F	PC PRE AMP BLK HX-A101M(C,A)
2-1G	BA-T2080A020G	PC PRE AMP BLK HX-A101M (E,B,S)

NOTE: PC PRE AMP BLK consists of following PC BOARDS.

- PRE AMP PC BOARD
- METER PC BOARD
- POWER SUPPLY PC BOARD

3. PRE AMP PC BOARD

REF. NO.	PART NO.	DESCRIPTION
PRE AMP PC BOARD		
3-IC1	EI-349591	IC LA2730
3-IC2	EI-353227	IC M5216L
3-TR1	ET-344275	TR 2SC2320L F,G
3-TR2	ET-349705	TR 2SC2320 E,F,G
3-TR3	ET-344275	TR 2SC2320L F,G
3-TR4,5	ET-349705	TR 2SC2320 E,F,G
3-TR6	ET-308472	TR 2SA1115 E,F,G
3-TR7	ET-353377	TR 2SB774 S,T
3-TR8,9	ET-308141	TR 2SC2603 G
3-TR10	ET-310148	Δ TR 2SD612K E,F
3-TR11	ET-308141	TR 2SC2603 G
3-TR12,13	ET-308977	TR 2SC2274K F
3-TR14	ET-357845	Δ TR 2SC3242A F,G
3-TR15	ET-344275	TR 2SC2320L F,G [HX-A101M(V)]
3-D1to3	ED-301911	D SILICON H DS448
3-D4	ED-330319	Δ D SILICON DBA10B 100/1.0A
3-D5	ED-324014	Δ D ZENER H HZ11 B1
3-SW1	ES-358797	SW SLIDE CL112K
3-VR1	EV-358082	VR SLIDE 60P2SVON A503x2
3-VR2,3	EV-356582	R S-FIX H H0615C 3P 473
3-VR4	EV-357619	R S-FIX H H0615C 3P 104
3-FL1	EH-354528	FILTER DOLBY FX-100B
3-FL2	EO-356809	COIL FIX 1 100Z-121 100.00KC
3-T1	EO-349589	COIL OSC 1 32-5016-12
3-C41	EC-326138	C PP V F10 APH 182J 630DC
3-C44	EC-316188	C EC V CUT SM 102M 25DC
3-J1	EJ-357732	PHONE J HLJ0527-3030
3-J2	EJ-355012	PHONE J 3P HLJ0541-010 6.3
3-J3	EJ-347664	PIN J YKC21-5053 P 4P
3-J4	EJ-358083	DIN.J TCS4654-01-1211 [HX-A101M(Y)]
ASSEMBLY BLOCK		
3-F1A	EF-601942	Δ FUSE SEMKO T 630MA 250V [U,E,V,S]
3-F1B	EF-318608	Δ FUSE GGS A 250V 1.00A [C,A]
3-F1C	EF-358974	Δ FUSE BET T 250V 0.63A [B]

4. METER PC BOARD

REF. NO.	PART NO.	DESCRIPTION
4-IC1	EI-353289	IC IR2E27A
4-D1,2	ED-351881	D LED GL-9PR23 RED
4-D3to5	ED-358085	D LED GL-9NG23 GRN
4-D6	ED-349617	D LED SLP-475B-50 YELLOW
4-D7	ED-358087	D LED SLP-175B-50 RED
4-SW1	ES-358508	SW SLIDE S5Y063
4-SW2	ES-347966	SW PUSH ESB-649 01-2-2 N
4-L1	EO-357050	COIL FIX 1 RC875 822J
4-R7	ER-328480	Δ R OMF H SNP FS 1W 271J
4-R8	ER-333607	Δ R CB H S15 FS RDS 1/2W 121J

5. POWER PC BOARD

REF. NO.	PART NO.	DESCRIPTION
5-SW1	ES-358581	Δ SW PUSH J-U3065 01-1
5-C1A	EC-357723	Δ C CE V F 472Z 250AC [U,C,A]
5-C1B	EC-338496	Δ C CE V FZ 472P 400AC [E,B,S,V]

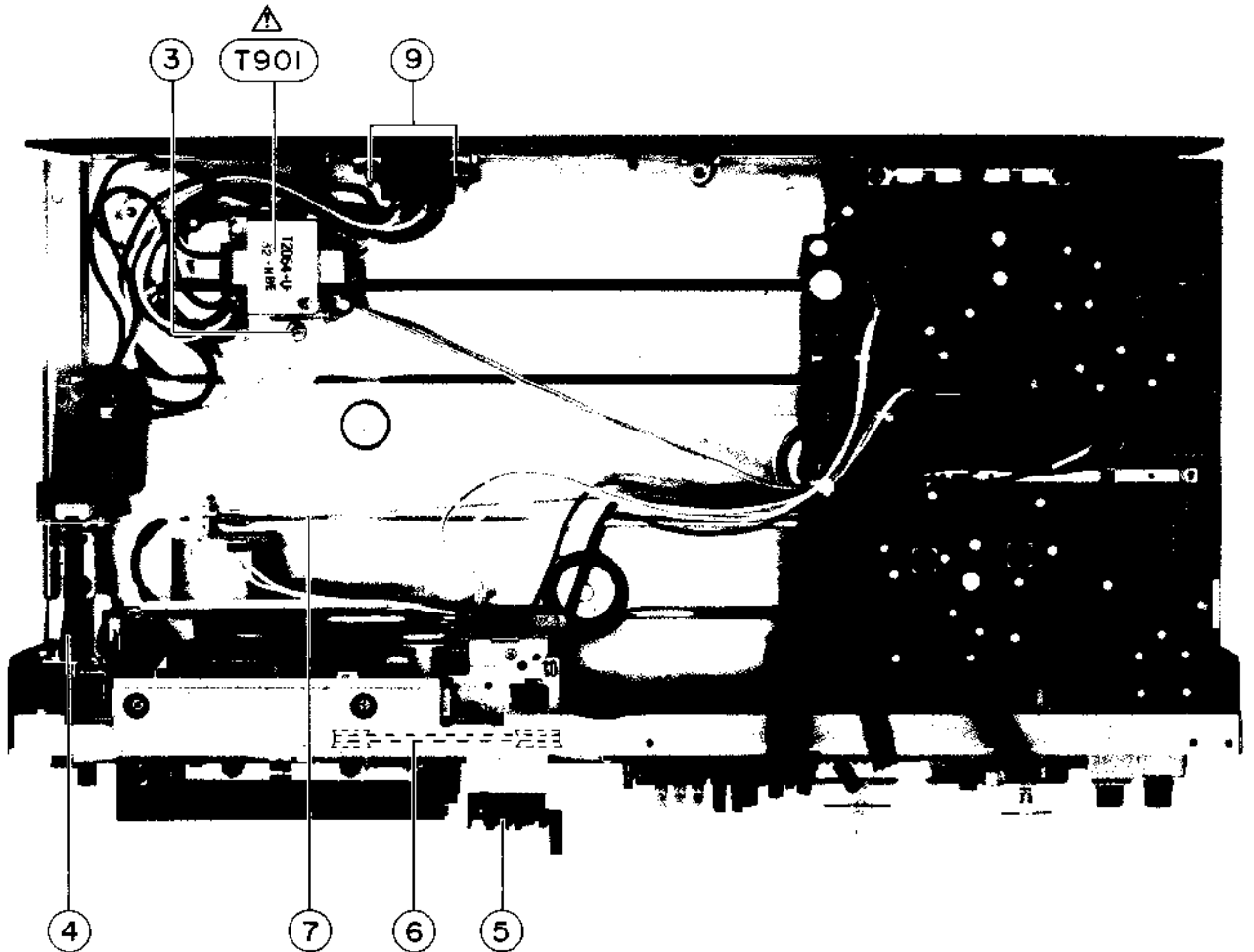
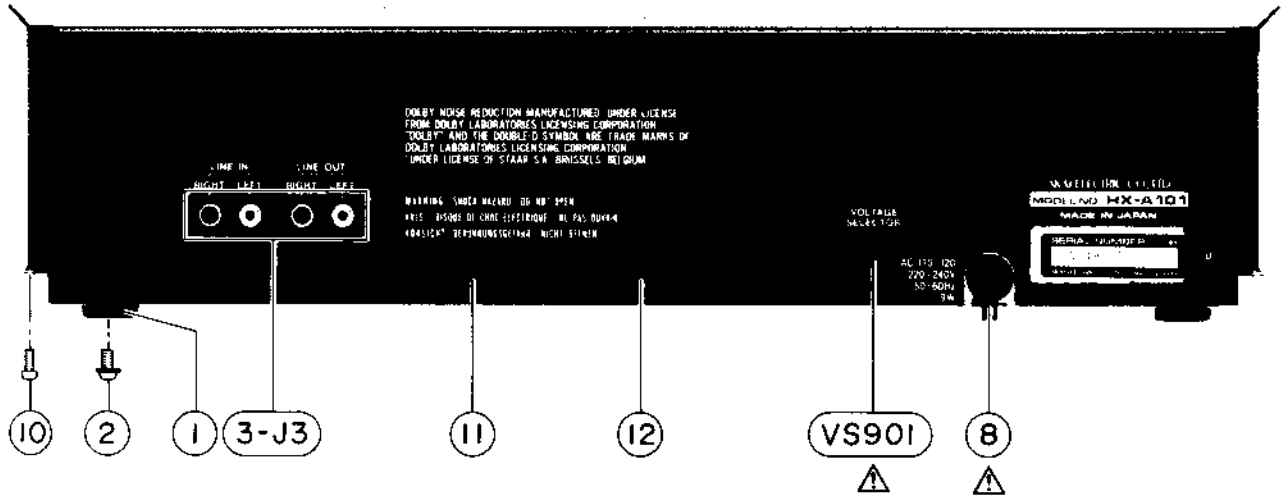
6. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
6-1	SA-349332	FOOT
6-2	ZS-351186	ST BR30x08STL CMT C080
6-3	ZS-304022	ST PAN40x06STL CMT
6-4	TC-358065	JOINT POWER
6-5	MC-358780	COUNTER MK395-065
6-6	MB-358071	BELT 0.8xD54 CRHS65
6-7	TC-358081	JOINT REC
6-8A	EW-347683	Δ AC CORD 2 CORES VM0129, VFF-CB U/T [U]
6-8B	EW-347607	Δ AC CORD 2 CORES VM0238, SPT-1CB UC [C,A]
6-8C	EW-347682	Δ AC CORD 2 CORES VM0364, FC3097-CB EV [E,V]
6-8D	EW-347680	Δ AC CORD 2 CORES LCFL2x0.75-CB B [B]
6-8E	EW-347681	Δ AC CORD 2 CORES VM0436, FC3093-CB S [S]
6-9	ZS-348375	ST BR30x08STL CMT [U]
6-10	ZS-320906	ST BR30x06STL CMT
6-11A	SP-358073A	PANEL REAR HX-A101(U)
6-11B	SP-358073B	PANEL REAR HX-A101(C,A)
6-11C	SP-358073C	PANEL REAR HX-A101(E)
6-11D	SP-358073E	PANEL REAR HX-A101(B)
6-11E	SP-358073F	PANEL REAR HX-A101(S)
6-11F	SP-358073N	PANEL REAR HX-A101M(U)
6-11G	SP-358073P	PANEL REAR HX-A101M(C,A)
6-11H	SP-358073Q	PANEL REAR HX-A101M(E)
6-11I	SP-358073R	PANEL REAR HX-A101M(V)
6-11J	SP-358073S	PANEL REAR HX-A101M(B)
6-11K	SP-358073T	PANEL REAR HX-A101M(S)
6-12	ZS-358803	ST BR30x08STL BNI C080
6-13x	EW-344151	CORD RR-61A PINx2-PINx2
6-14x	ZW-698308	RV NYL30x055 BL [HX-A101M(V)] [J4 FIX]
6-T901A	BT-354050	Δ TRANS POWER T2064(U)
6-T901B	BT-354051	Δ TRANS POWER T2064 (A,C)
6-T901C	BT-354052	Δ TRANS POWER T2064 (E,V,Y1)
6-T901D	BT-354053	Δ TRANS POWER T2064 (B,S)
6-VS901	ES-305733	Δ SW SELECTOR HXW0131-260 01-4 [U]

PRE AMP PC BOARD

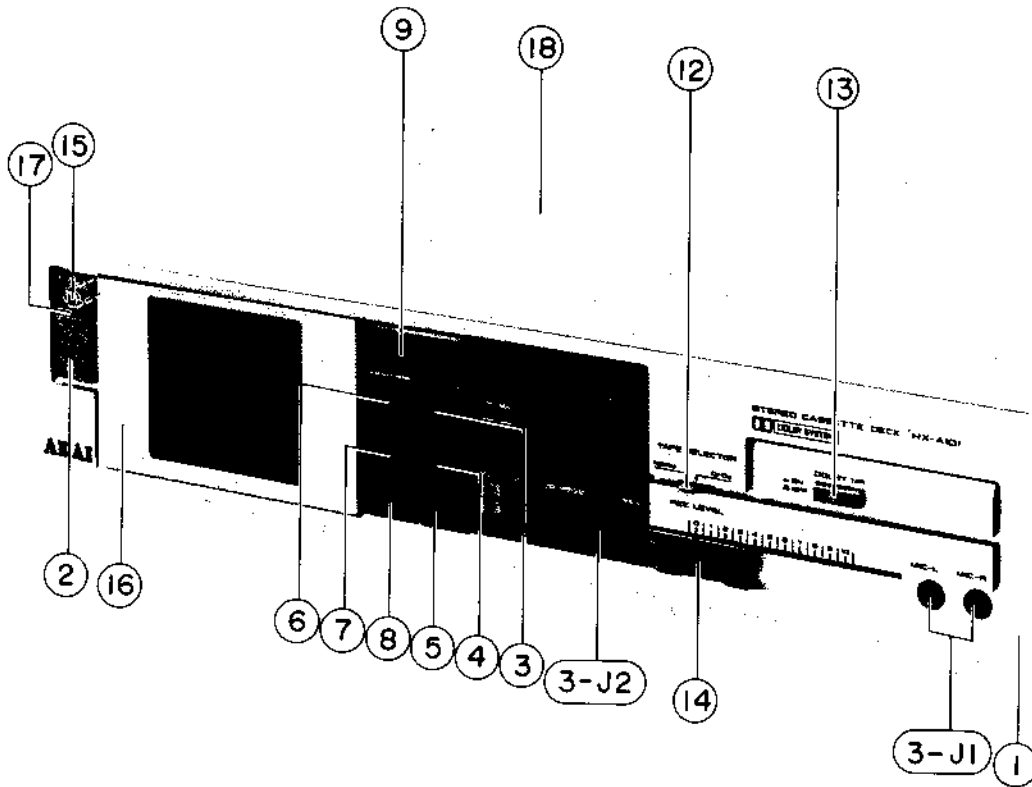
3-J3	EJ-347664	PIN J YKC21-5053 P 4P
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ASSEMBLY BLOCK



PARTS LIST

FINAL ASSEMBLY BLOCK



7. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
PANEL FRONT BLOCK		
7-1A	BD-T2080A030A	PANEL FRONT BLK HX-A101
7-1B	BD-T2080A030B	PANEL FRONT BLK HX-A101-B [BL]
7-1C	BD-T2080A030C	PANEL FRONT BLK HX-A101M
7-1D	BD-T2080A030D	PANEL FRONT BLK HX-A101M-B [BL]
7-2	SK-343017C	KNOB POWER (2)
7-2B	SK-343017F	KNOB POWER-B
7-3	SK-358074A	KNOB OPERATION FF
7-3B	SK-358074B	KNOB OPERATION FF-B
7-4	SK-358074C	KNOB OPERATION STOP
7-4B	SK-358074D	KNOB OPERATION STOP-B
7-5	SK-358074E	KNOB OPERATION PAUSE
7-5B	SK-358074F	KNOB OPERATION PAUSE-B
7-6	SK-358076A	KNOB OPERATION REW
7-6B	SK-358076B	KNOB OPERATION REW-B
7-7	SK-358076C	KNOB OPERATION PLAY
7-7B	SK-358076D	KNOB OPERATION PLAY-B
7-8	SK-358076E	KNOB OPERATION REC
7-8B	SK-358076F	KNOB OPERATION REC-B
7-9	BC-358067A	COVER COUNTER
7-9B	BC-358067B	COVER COUNTER-B
7-10x	ZG-358078	SP PUSH OPERATION [FF,STOP,PAUSE,REW,PLAY,REC]
7-11x	ZW-340648	RING CS190STL PKR [SP PUSH OPERATION FIX]

REF. NO.	PART NO.	DESCRIPTION
FINAL ASSEMBLY BLOCK		
7-12	SK-358066A	KNOB SLIDE
7-12B	SK-358066B	KNOB SLIDE-B
7-13	SK-358063A	KNOB PUSH
7-13B	SK-358063B	KNOB PUSH-B
7-14	SK-358474D	KNOB (D-4)
7-14B	SK-358474C	KNOB (D-3)
7-15	TC-358068	JOINT EJECT
7-16	BD-358072A	LID
7-16B	BD-358072B	LID-B
7-17	SK-357584B	KNOB EJECT (2)
7-17B	SK-357584C	KNOB EJECT (3)
7-18	SP-358061A	COVER UPPER
7-18B	SP-358061B	COVER UPPER-B
PRE AMP PC BOARD		
3-J1	EJ-357732	PHONE J HLJ0527-3030
3-J2	EJ-355012	PHONE J 3P HLJ0541-010 6.3

SYMBOL FOR COLOR VARIATION

NON: STANDARD COLOR
B or BL: BLACK

NOTE: PANEL FRONT BLK consists of 7-2 to 7-11x.

INDEX

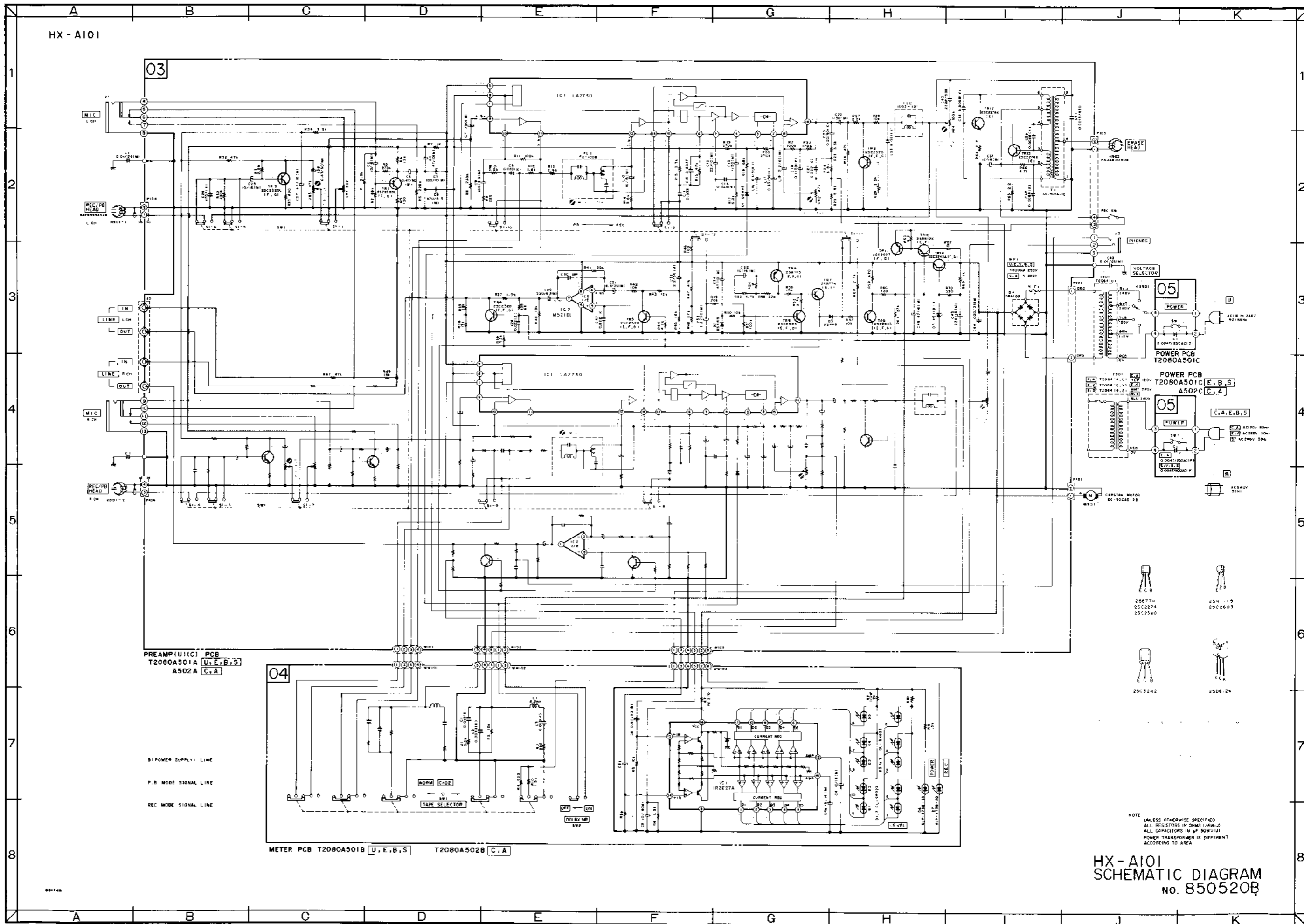
PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.
BA-T2080A020A	2-1A	ES-358797	3-SW1	SB-716304	1-61	ZG-716260	1-23
BA-T2080A020B	2-1B	ES-715649	1-S901	SK-343017C	7-2	ZG-716261	1-24
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BD-358072B	7-16B	ET-353377	3-TR7	SK-358076A	7-6	ZW-698308	6-14x
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BT-354052	6-T901C	EW-344151	6-13x	SK-358474C	7-14B	ZW-716301	1-58
BT-354053	6-T901D	EW-347607	6-8B	SK-358474D	7-14	ZW-716303	1-60
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EO-356809	3-FL2	MZ-716268	1-28	ZG-716250	1-14		
EO-357050	4-L1	MZ-716271	1-31	ZG-716251	1-15		
ER-328480	4-R7	MZ-716272	1-32	ZG-716252	1-16		
ER-333607	4-R8	MZ-716281	1-40	ZG-716255	1-18		
ES-305733	6-VS901	MZ-716284	1-43	ZG-716256	1-19		
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ES-358581	5-SW1	SA-349332	6-1	ZG-716258	1-22		

AKAI

MODEL **HX-A101/M**

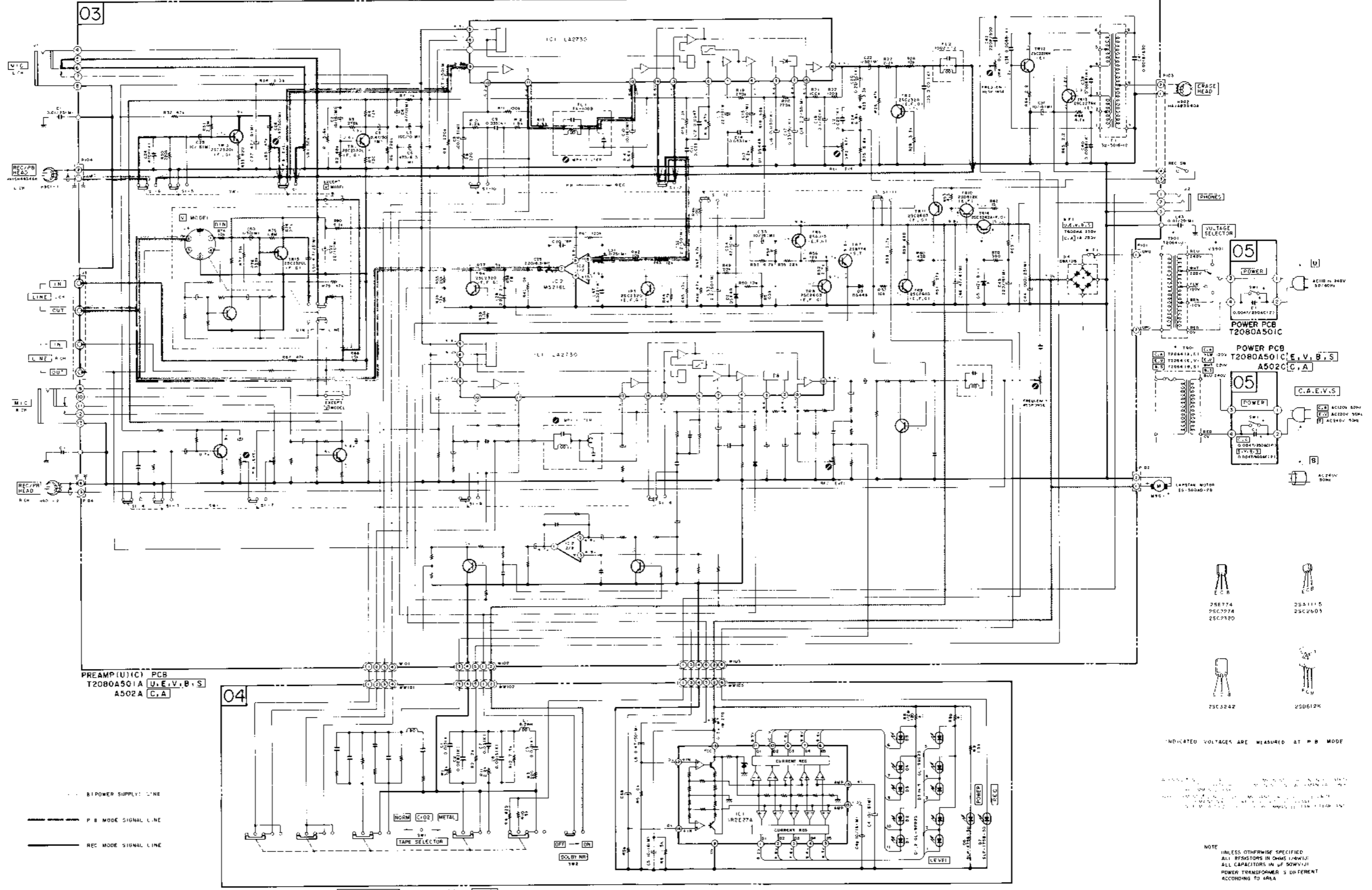
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1. HX-A101 SCHEMATIC DIAGRAM	2
2. HX-A101 PRE AMP/METER/POWER PC BOARD	3
3. HX-A101M SCHEMATIC DIAGRAM.....	4
4. HX-A101M PRE AMP/METER/POWER PC BOARD	5



HX-A101
SCHEMATIC DIAGRAM
No. 850520B

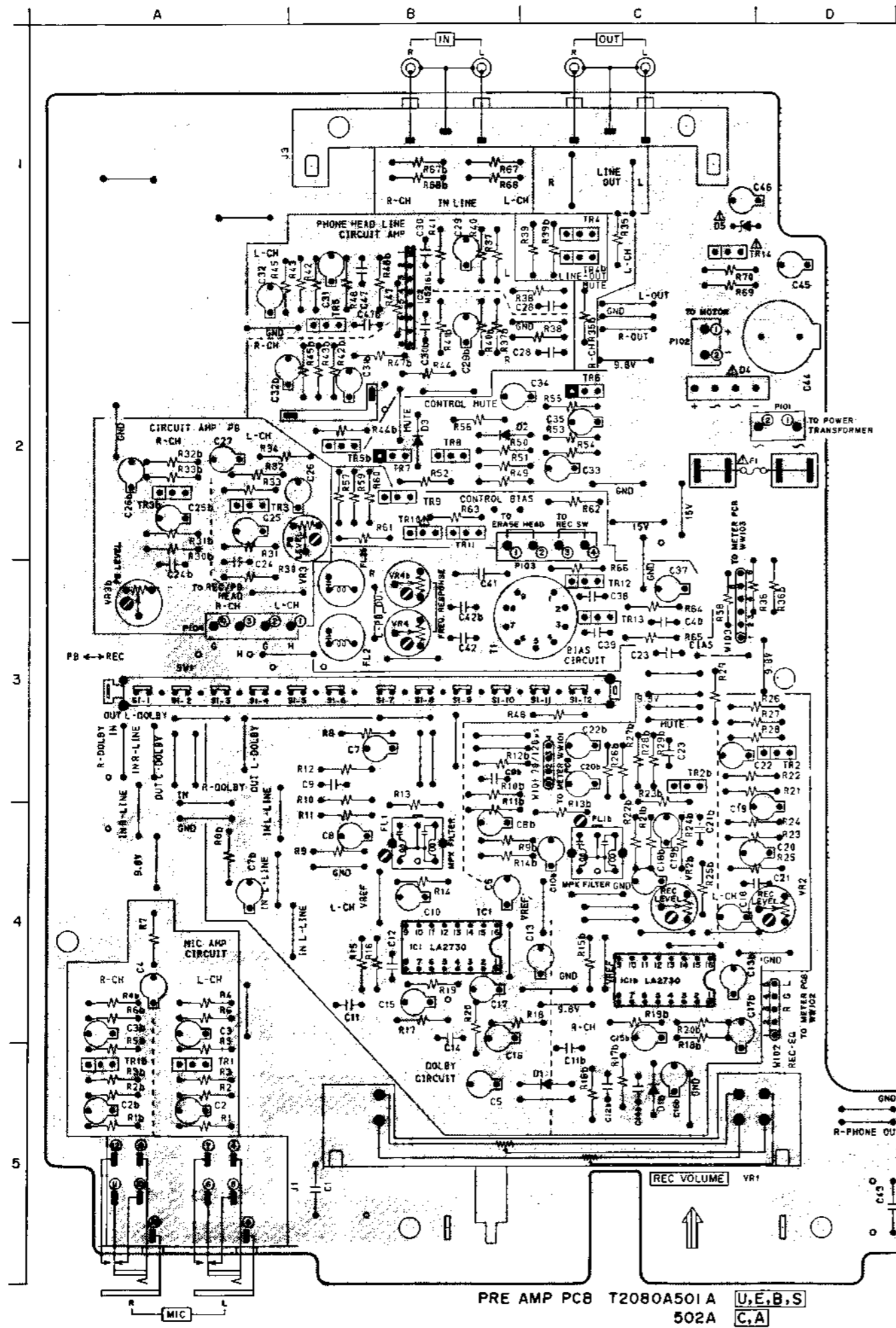
HX-A101M



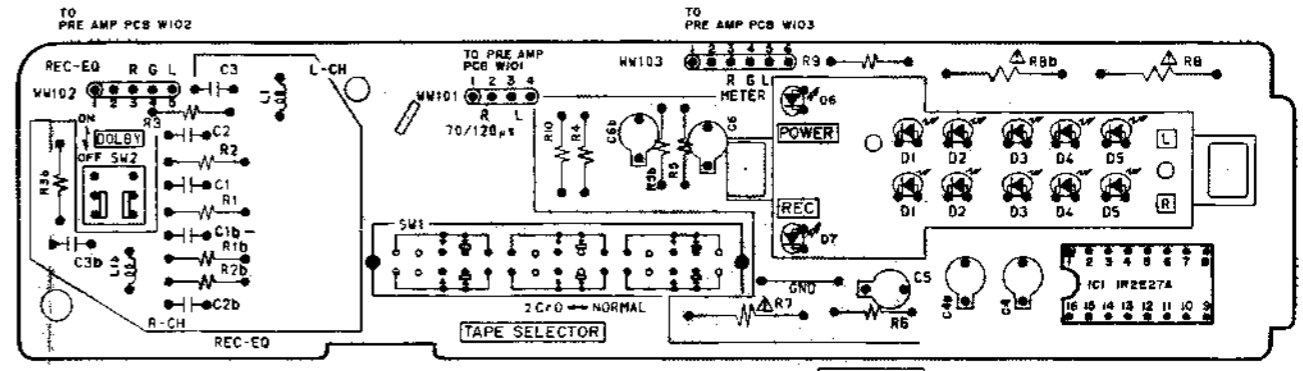
INDICATED VOLTAGES ARE MEASURED AT P-B MODE

NOTE: UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS IN OHMS (Ω);
 ALL CAPACITORS IN μF (μ);
 POWER TRANSFORMER S DIFFERENT
 ACCORDING TO AREA

HX-A101M
 SCHEMATIC DIAGRAM
 No. 850520A



PRE AMP PCB T2080A501A U.E.B.S
502A C.A



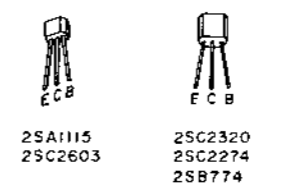
METER PCB T2080A501B U.E.B.S
502B C.A

LOCATION OF COMPONENTS

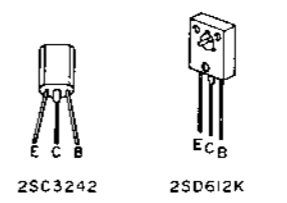
- TR5 A5
 TR1 A5
 TR1b A5
 TR2 D3
 TR2b D3
 TR3 A2
 TR3b A2
 TR4 C1
 TR4b C1
 TR5 B2
 TR5b B2
 TR6 C2
 TR7 B2
 TR8 B2
 TR9 B2
 TR10 B2
 TR11 B2
 TR12 C3
 TR13 C3
 TR14 C1

- ICs
 IC1 B4
 IC1b C4
 IC2 B1

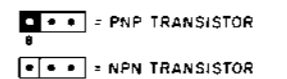
- CONNECTORS
 W101 C3
 W102 D4
 W103 C3
 P101 D2
 P102 C2
 P103 C2
 P104 A3



2SA1115
2SC2603
2SC2320
2SC2274
2SB774

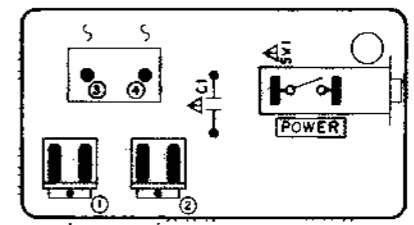


2SC3242 2SD612K



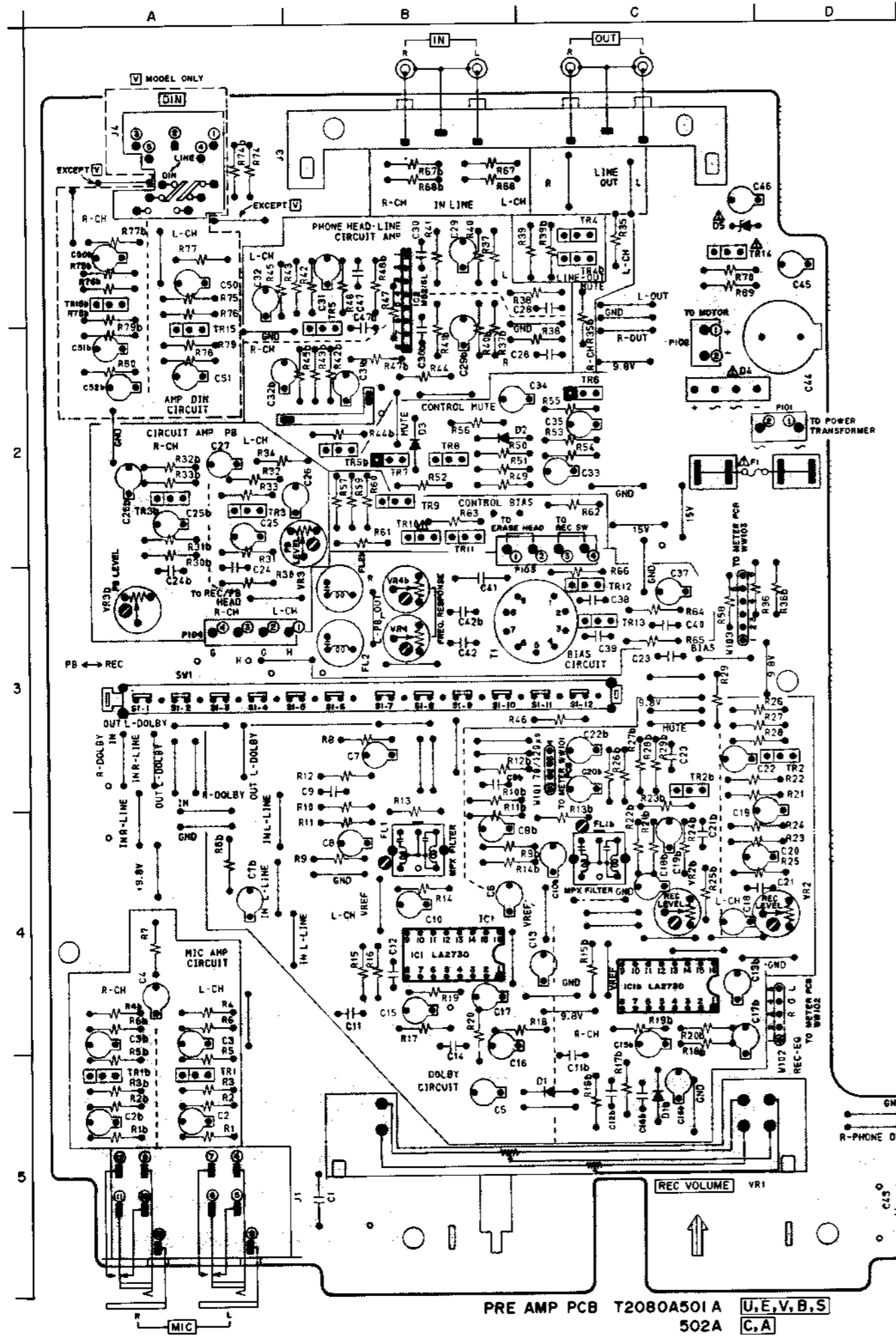
■ = PNP TRANSISTOR
 ○ = NPN TRANSISTOR

- TR1, 1b, 3, 3b 2SC2320L (F, G)
 TR2, 2b, 4, 4b, 5, 5b 2SC2320 (E, F, G)
 TR6 2SA1115 (E, F, G)
 TR7 2SC774 (S, T)
 TR8, 9 2SC2603 (E, F, G)
 TR10 2SD612K (E, F)
 TR11 2SC2603 (F, G)
 TR12, 13 2SC2274K (E)
 TR14 2SC3242A (F, G)

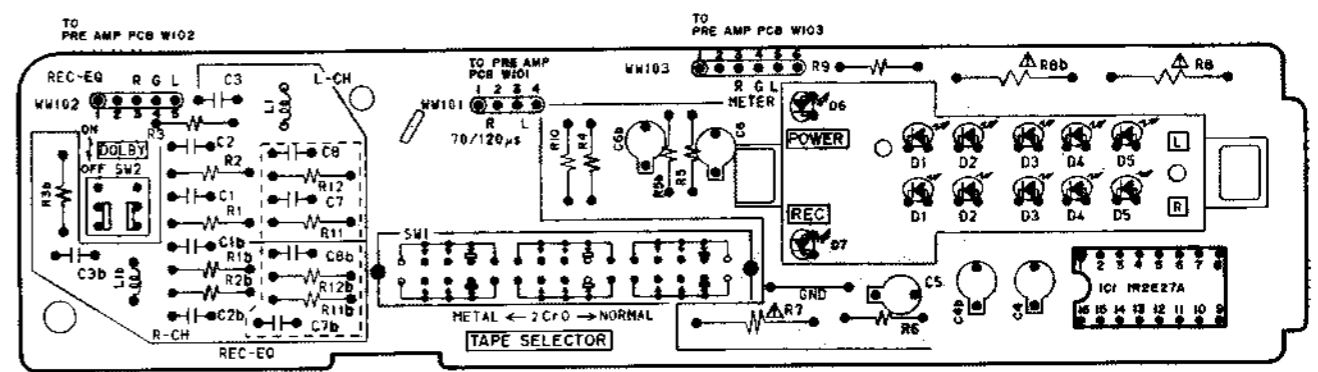


POWER PCB T2080A501C U.E.B.S
502C A.C

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: Δ I INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



PRE AMP PCB T2080A501A U,E,V,B,S
502A C,A



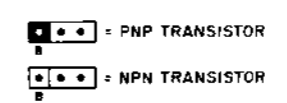
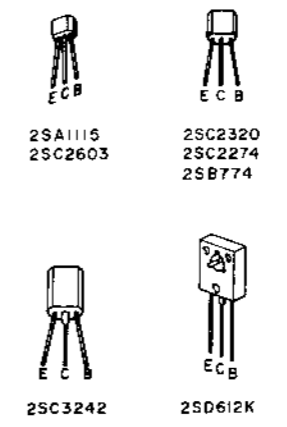
METER PCB T2080A501B U,E,V,B,S
502B C,A

LOCATION OF COMPONENTS

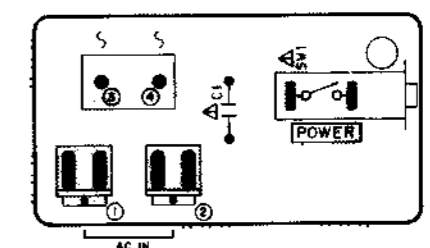
- TR5.....A5
- TR1.....A5
- TR1b.....A5
- TR2.....D3
- TR2b.....C3
- TR3.....A2
- TR3b.....A2
- TR4.....C1
- TR4b.....C1
- TR5.....B2
- TR5b.....B2
- TR6.....C2
- TR7.....B2
- TR8.....B2
- TR9.....B2
- TR10.....B2
- TR11.....B2
- TR12.....C3
- TR13.....C3
- TR14.....C1
- TR15.....A2
- TR15b.....A1

- ICs
- IC1.....B4
- IC1b.....C4
- IC2.....B1

- CONNECTORS
- W101.....C3
- W102.....D4
- W103.....C3
- P101.....D2
- P102.....C2
- P103.....C2
- P104.....A3



- TR1, 1b, 3, 3b.....2SC2320L(F,G)
- TR2, 2b, 4, 4b, 5, 5b.....2SC2320 (E, F, G)
- TR6.....2SA1115 (E, F, G)
- TR7.....2SC774 (S, T)
- TR8, 9.....2SC2603 (E, F, G)
- TR10.....2SD612K (E, F)
- TR11.....2SC2603 (F, G)
- TR12, 13.....2SC2274K (E)
- TR14.....2SC3242A (F, G)
- TR15, 15b.....2SC2320L (F, G)



POWER PCB T2080A501C U,E,V,B,S
502C A,C

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.