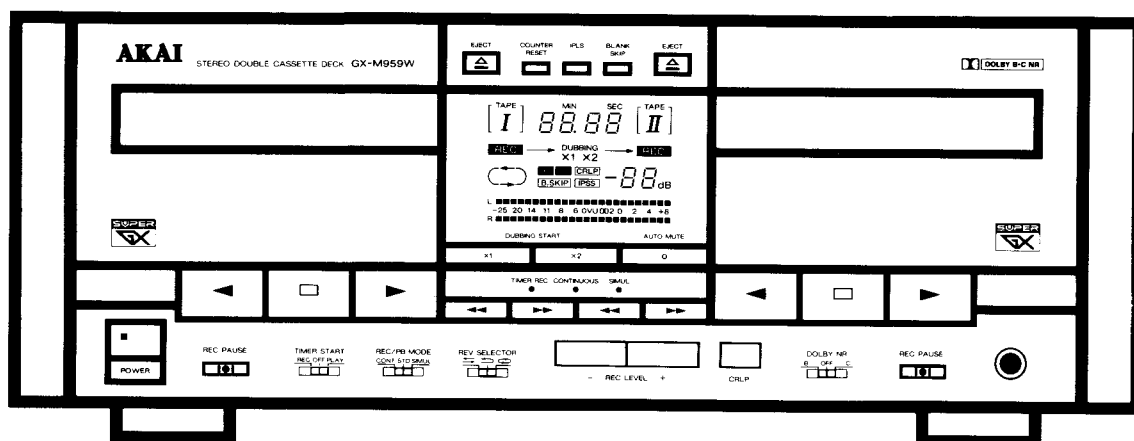


AKAI SERVICE MANUAL



STEREO DOUBLE CASSETTE DECK

MODEL **GX-M959W**

SPECIFICATIONS

Heads.....	Twin field super GX head for recording and playback × 2 Erase head × 2	T.H.D.....	0.7%
Motors	Electronically speed controlled DC motor for capstan drive × 2 DC motor for reel drive × 2 DC motor for cam drive × 2	Input sensitivity/Impedances LINE IN	70 mV/40 k ohms
Wow & flutter	0.05% WRMS (JIS), 0.12% (DIN/WTB)	Output sensitivity/Impedance LINE.....	380 mV/1 k ohms
Frequency response Normal	25 Hz to 17,000 Hz ± 3 dB	PHONES	50 mV (8 ohms)
CrO ₂	25 Hz to 18,000 Hz ± 3 dB	Power requirements ..	220 V, 50 Hz for Europe except UK 240 V, 50 Hz for UK & Australia
Metal	25 Hz to 19,000 Hz ± 3 dB	Dimensions	385 (W) × 139 (H) × 330 (D) mm (15.2 × 5.5 × 13.0 inches)
S/N (Metal)	60 dB	Weight	8.0 kg (17.6 lbs)
	Dolby B type NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz		
	Dolby C type NR switch: Improves up to 15 dB at 500 Hz, 20 dB at 1 kHz to 10 kHz		
		Standard accessories Connection cord	× 1

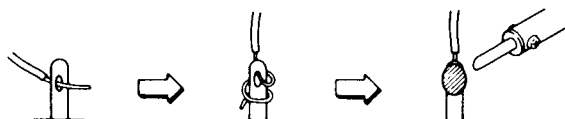
* For improvement purposes, specifications and design are subject to change without notice.

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

★ SAFETY INSTRUCTIONS

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 turn-table)
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

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

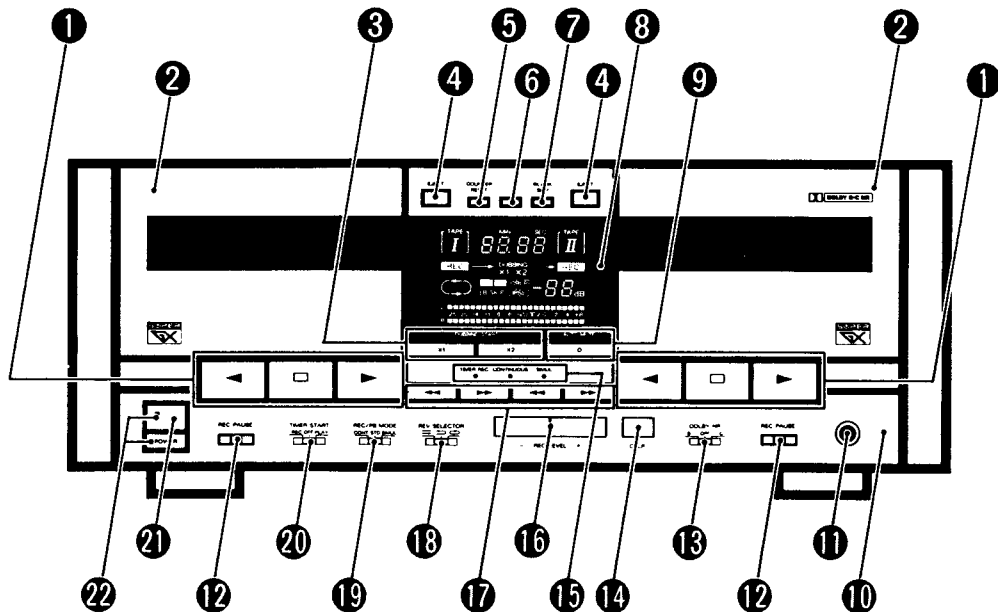
★ INFORMATION

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

I. CONTROLS

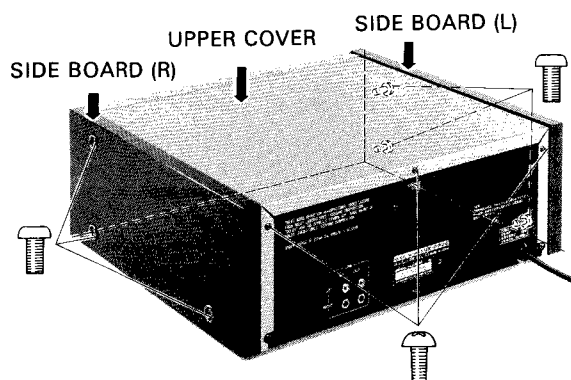


- 1** **Tape operation buttons**
For playback operation and tape winding.
- 2** **Cassette lid and cassette holder**
Load a cassette tape here for recording and playback.
- 3** **DUBBING START buttons (×2/×1) and indicators**
To start the normal speed or double speed tape dubbing operation.
- 4** **EJECT button**
To open the cassette holder and eject the cassette tape.
- 5** **COUNTER RESET button**
Resets the counter to "00.00".
- 6** **IPSS button**
To turn the IPSS system on and off.
- 7** **BLANK SKIP button**
To turn the Blank Skip system on and off.
- 8** **FL (Fluorescent) display**
Tells you what the cassette deck is doing.
- 9** **AUTO MUTE (O) button**
For mute recording operation.
- 10** **Sealing panel**
- 11** **PHONES Jack**
For headphone listening.
- 12** **REC/PAUSE (●●) button**
For recording operation.
- 13** **DOLBY NR selector (B/OFF/C)**
To select the DOLBY NR system.
- 14** **CRLP (Computer Recording Level Processing) button**
To turn the CRLP system on and off.
- 15** **TIMER REC and CONTINUOUS/SIMUL indicators**
Indicates the position of the REC/PB MODE switch and the TIMER START switch mode.
- 16** **REC LEVEL buttons (+:increase level/ -: decrease level)**
For adjusting the recording level.
- 17** **Tape winding buttons (◀/▶)**
For winding the tape quickly.
- 18** **REV SELECTOR switch (↔: one way/↔: both way/↔: continuous)**
To select the auto reverse mode during recording and playback.
- 19** **REC/PB MODE switch (CONT/STD/SIMUL)**
To select the deck mode for sequential recording and playback with two cassette tapes.
- 20** **TIMER START switch (REC/OFF/PLAY)**
To select the timer function when used in combination with an optional audio timer.
- 21** **Remote control receiver**
For remote control operation. (Remote control unit included with the Akai amplifier)
- 22** **POWER switch and Indicator**
To turn the power on and off.

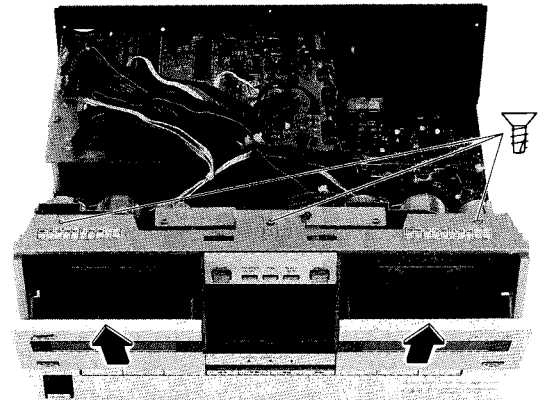
II. DISASSEMBLY

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

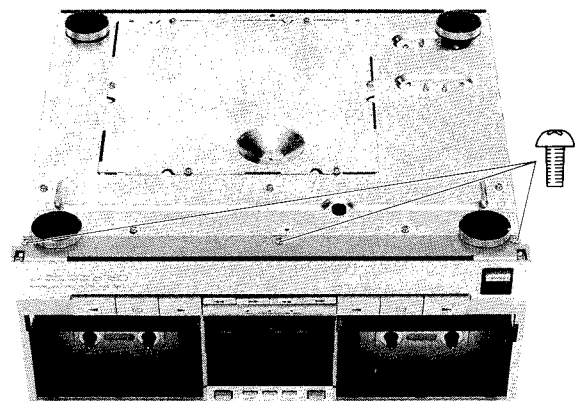


2. Removal of CASSETTE LIDS & FRONT PANEL



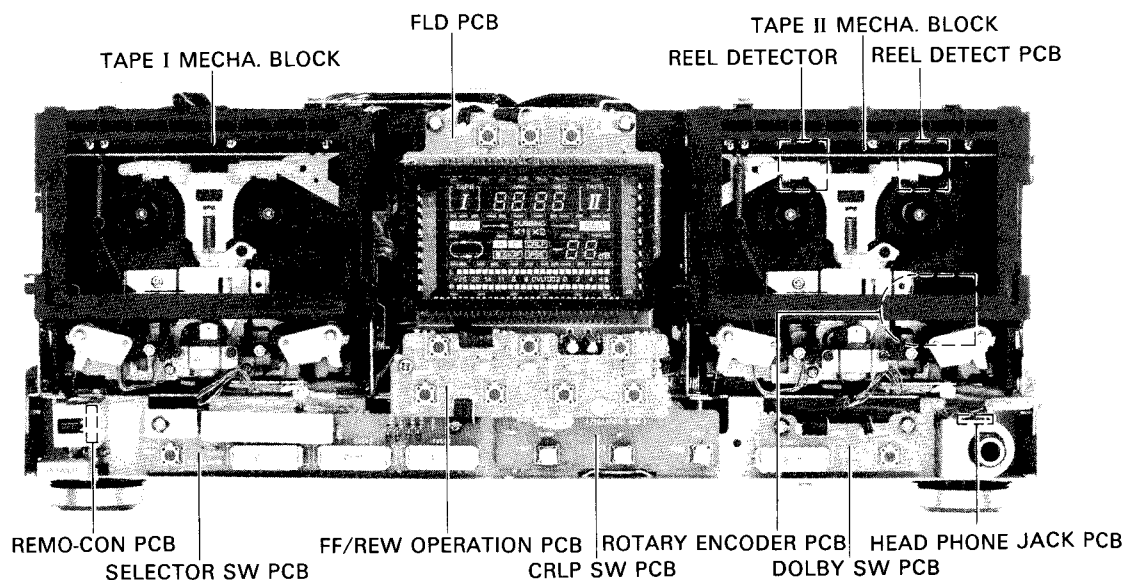
REMOVE CASSETTE LIDS

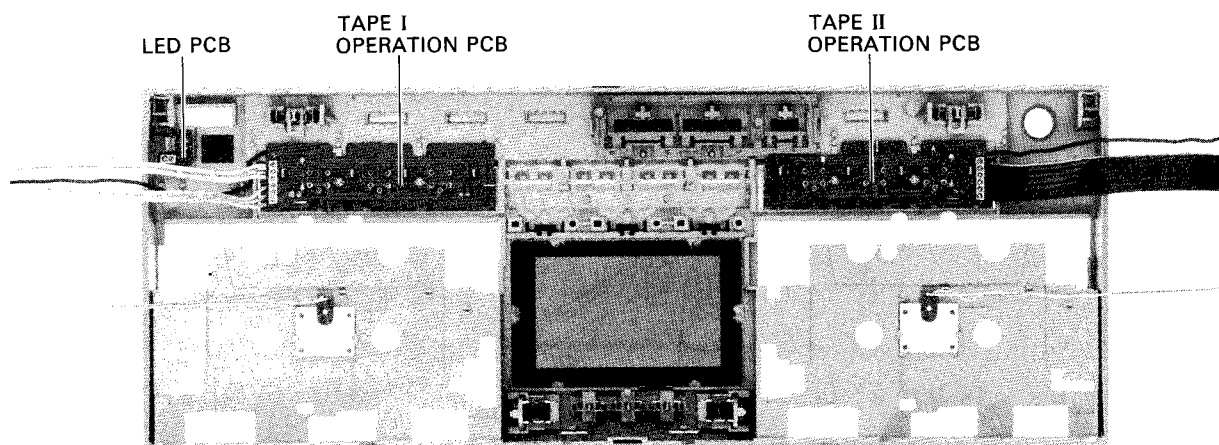
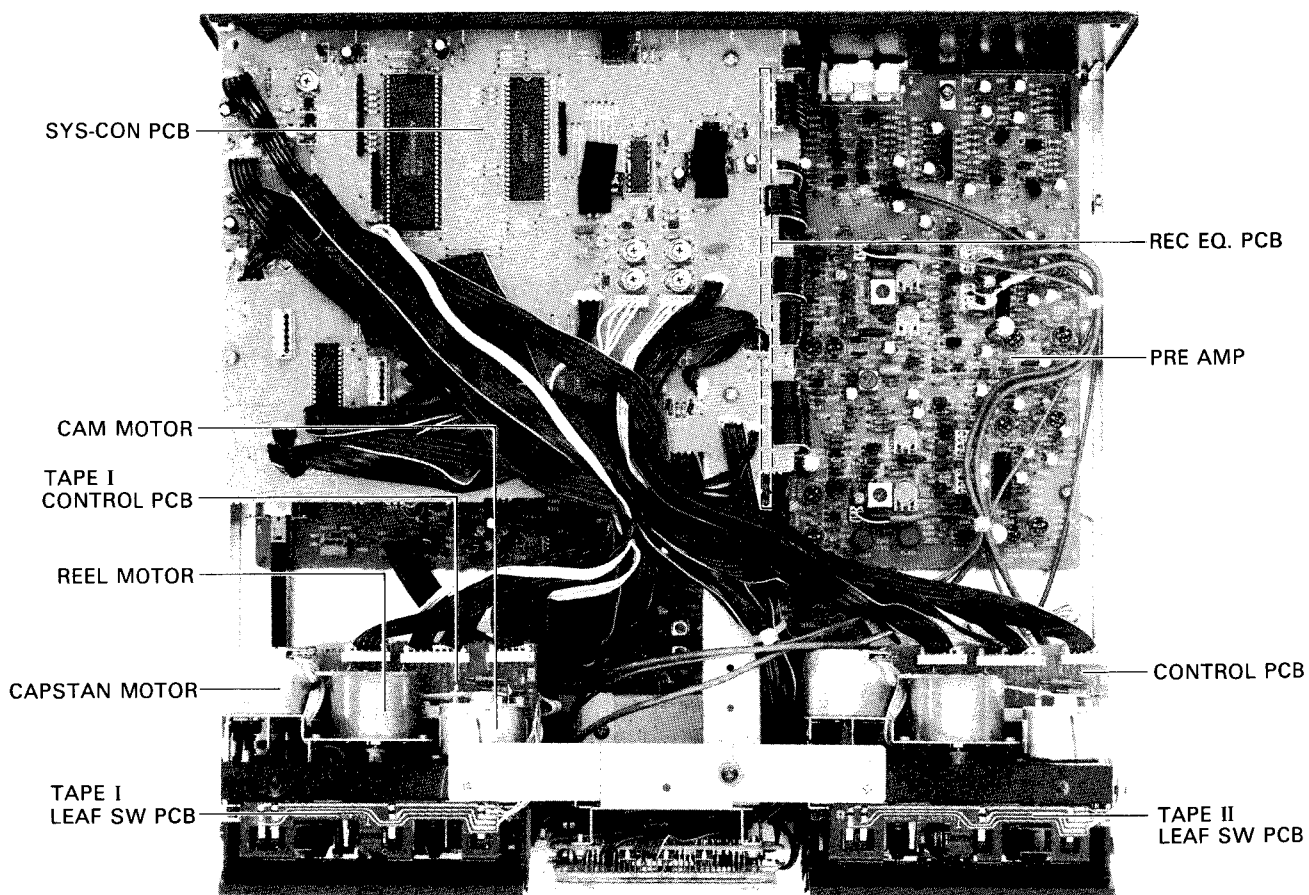
3.



REMOVE FRONT PANEL

III. PRINCIPAL PARTS LOCATION





IV. ASSEMBLE METHOD OF ROTARY ENCODER AND MAIN CAM WHEEL

When disassembled MAIN CAM WHEEL etc. during repair, assemble according to following procedure.

- 1) Set the MAIN CAM WHEEL to the CAPSTAN HOLDER as shown in Fig. 4-1 and Fig. 4-2. At this time, HEAD BLK is setting to STOP position.
- 2) Insert the pin ⑥ of the HEAD REVERSE ARM into the groove ③ as shown in Fig. 4-3.
- 3) Install ROTARY ENCODER to the MAIN CAM WHEEL, so that the pattern side of ROTARY ENCODER is faced to MAIN CAM WHEEL as shown Fig. 4-1.

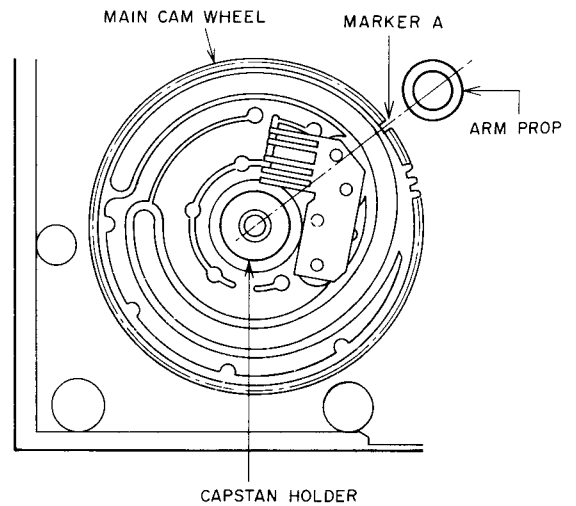


Fig. 4-2

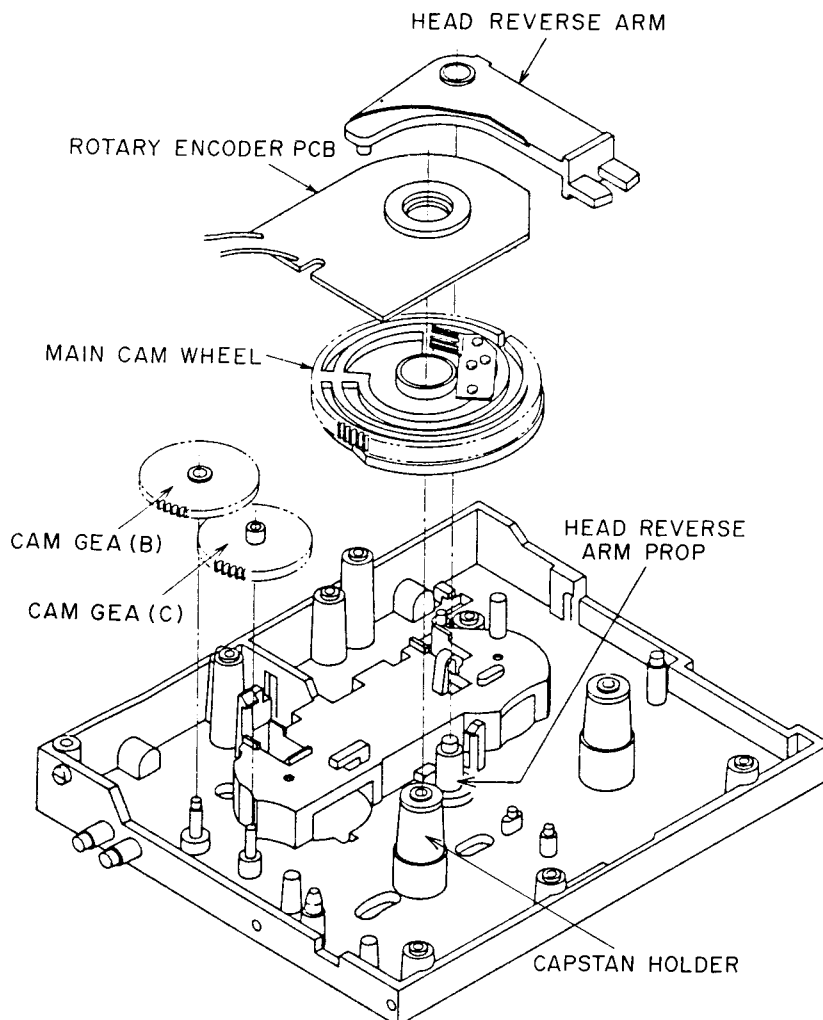


Fig. 4-1

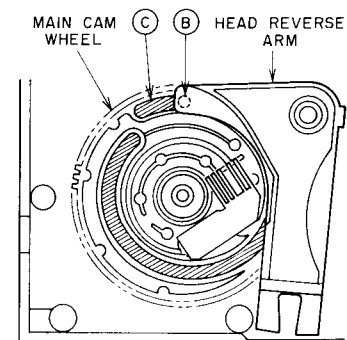


Fig. 4-3

V. MECHANICAL ADJUSTMENT

5-1. PINCH ROLLER PRESSURE MEASUREMENT

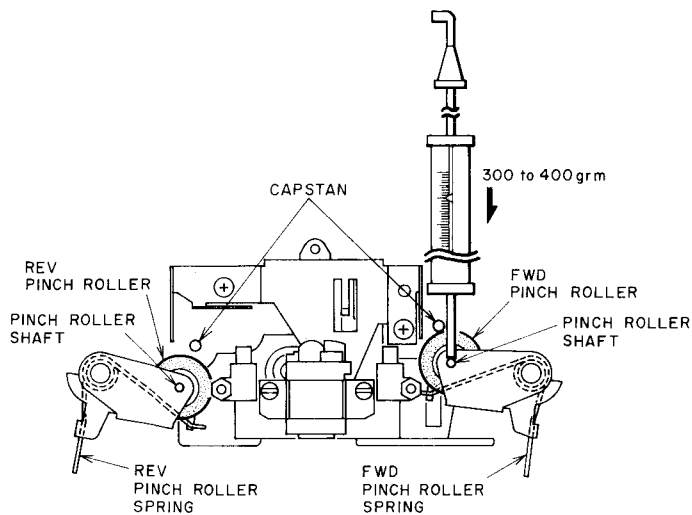


Fig. 5-1

Set the machine to FWD PLAY mode, push PINCH ROLLER SHAFT down with the spring gauge as shown in Fig. 5-1 so that the PINCH ROLLER detaches from the CAPSTAN, then slightly release the pressure of PINCH ROLLER SHAFT down.

Read the spring gauge at the moment when the PINCH ROLLER touches to CAPSTAN and begins to rotate.

If reading pressure is without 300 to 400g, replace PINCH ROLLER SPRING.

Confirm in the REV PLAY mode as same manner as in FWD PLAY mode.

5-2. WINDING TORQUE MEASUREMENT IN EACH MODE (Refer to Fig. 5-2)

Insert a cassette torque meter (AJ-751179) and measure in each mode. For Fast Forward and Rewind, measure at end of the tape when the tape has stopped running.

CASSETTE TORQUE METER
(AJ751179)

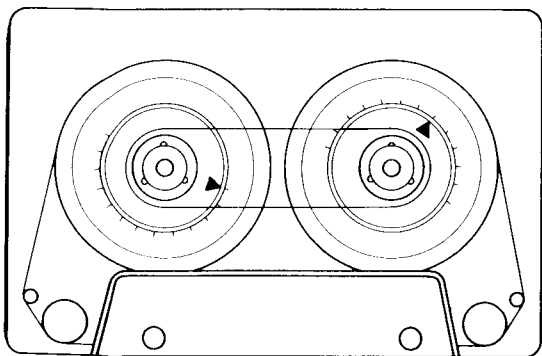


Fig. 5-2

5-3. HEAD ADJUSTMENT

[PRECAUTION BEFORE ADJUSTMENT]

1. Be sure to clean the heads prior to head adjustment.
2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
3. Be sure to demagnetize the heads with a Head Demagnetizer before and after head adjustment.

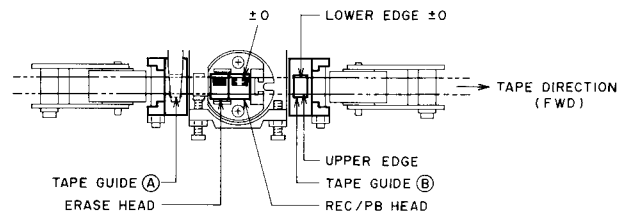


Fig. 5-3

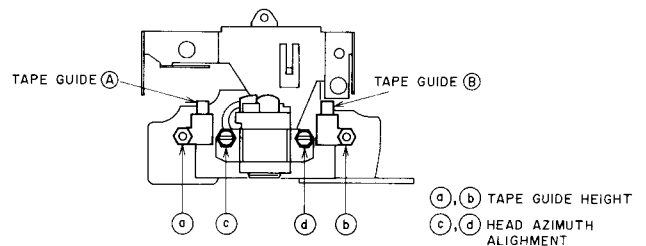


Fig. 5-4

5-3-1. PRE-ADJUSTMENT OF TAPE GUIDE

- 1) Set the mirror cassette tape (AJ-751178) into cassette Holder and set the machine to FWD PLAY mode.
- 2) Adjust TAPE GUIDE HEIGHT adjustment nuts (a) and (b), so that the tape runs lower part of TAPE GUIDE (A) and (B), at this time confirm that the tape runs smoothly and is not hitched by the lower edge of TAPE GUIDE (A) and (B).

5-3-2. ADJUSTMENT OF REC/PCB HEAD AZIMUTH ALIGNMENT

- 1) Connect the AC milli-volt meter to LINE OUT.
- 2) Play back a 10kHz Head Azimuth Test Tape (AT-750778) and adjust Screw (c) (FWD PLAY) and Screw (d) (REV PLAY), so that the line output levels of both channels are at maximum.

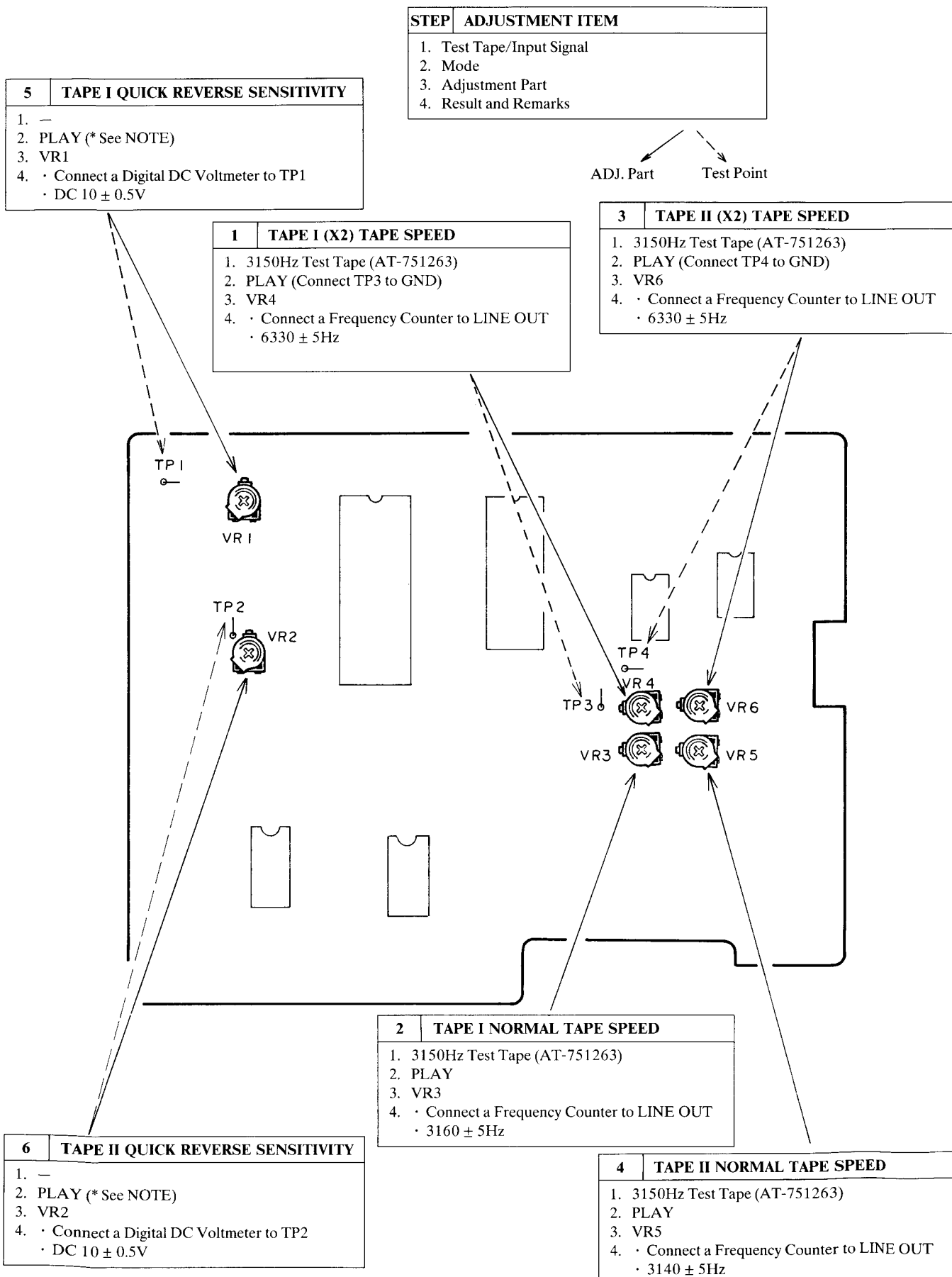
5-3-3. FINE ADJUSTMENT OF TAPE GUIDE

- 1) Connect the AC milli-volt meter to LINE OUT.
- 2) Set the 315Hz PB Level Test Tape (AT-750773) into cassette Holder and Playback in both FWD and REV direction.
- 3) Adjust TAPE GUIDE HEIGHT adjustment nuts (a) and (b), so that the playback levels in both directions are equal or within $\pm 0.5\text{dBm}$.
- 4) For best result, repeat Adjustment steps 5-3-2 and 5-3-3 for 2 or 3 times.
- 5) After adjustment, paint lock the screw (a) to (d).

VI. ELECTRICAL ADJUSTMENTS

6-1. ADJUSTMENT OF SYSTEM CONTROL PCB

NOTE: When adjust in steps 5 and 6, supply reel should be turning by finger due to unit will detect Auto Stop.



6-2. ADJUSTMENT OF PRE AMP PCB

* PRECAUTION WHEN ADJUSTMENT

1. All adjustment are adjust without Dolby NR
2. Use the following measuring tape for recording
Normal position : MAXELL UD C-60
CrO₂ position : TDK SA C-60
Metal position : TDK MA C-60

11	TAPE II CrO ₂ POSITION BIAS
1.	1kHz, 10kHz, -26dBm (LINE OUT) CrO ₂ Blank Tape
2.	FWD REC → PLAY
3.	VR461
4.	• Connect an AC milli-volt meter to LINE OUT • Play back levels of 1kHz and 10kHz are equal or within 0.5dBm * Confirm in REV REC → PB

15	TAPE I REC LEVEL
1.	315Hz to LINE IN, -6.0dBm (LINE OUT), Normal Blank Tape
2.	FWD REC → PLAY
3.	VR351 (L CH), VR351b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • -6.0 ± 0.2dBm

6	BIAS OSCILLATION
1.	No Signal input, CrO ₂ Blank Tape
2.	REC/PAUSE
3.	T401
4.	• Connect a Frequency counter to connector P304 • 102 ± 0.1kHz

12	TAPE I CrO ₂ POSITION BIAS
1.	1kHz, 10kHz, -26dBm (LINE OUT) CrO ₂ Blank Tape
2.	FWD REC → PLAY
3.	VR431
4.	• Connect an AC milli-volt meter to LINE OUT • Play back levels of 1kHz and 10kHz are equal or within 0.5dBm * Confirm in REV REC → PLAY

16	TAPE I REC LEVEL
1.	315Hz to LINE IN, -6.0dBm (LINE OUT), Normal Blank Tape
2.	FWD REC → PLAY
3.	VR301 (L CH), VR301 (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • -6.0 ± 0.2dBm

17	MPX FILTER
1.	19kHz to LINE IN, -6.0dBm (LINE OUT), Any Blank Tape
2.	FWD REC/PAUSE (TAPE I)
3.	FL201 (L CH), FL201b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT and turn Dolby NR (B or C) switch ON • Minimized LINE OUT level

1	LEVEL METER SENSITIVITY
1.	1kHz to LINE IN, Blank Tape
2.	REC/PAUSE
3.	VC201 (L CH), VR201b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT and Adjust REC LEVEL CONTROL so that the LINE OUT level is -6 dBm • 0 VU Segment of level meter is light

13	TAPE II METAL POSITION BIAS
1.	1kHz, 10kHz, -26dBm (LINE OUT), METAL Blank Tape
2.	FWD REC → PLAY
3.	VR462
4.	• Connect an AC milli-volt meter to LINE OUT • Play back levels of 1kHz and 10kHz are equal or within 0.5dBm * Confirm in REV REC

7	TAPE II DIP POINT
1.	No Signal input, CrO ₂ Blank Tape
2.	REC
3.	T467
4.	• Connect a Digital DC Volt meter between TP3(+) and TP4(-) • Minimized DC voltage

9	TAPE II NORMAL POSITION BIAS
1.	1kHz, 10kHz, -26dBm (LINE OUT) Normal Blank Tape
2.	REC → PB
3.	VR463 (L CH), VR463b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • Play back levels of 1kHz and 10kHz are equal or within 0.5dBm * Confirm in REV REC → PB

2	TAPE II PB LEVEL
1.	315Hz Test Tape (AT-750773)
2.	PLAY
3.	VR131 (L CH), VR131b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • -6.0 ± 0.2dBm * When level difference between FWD and REV mode is more than ±0.5dB, Readjuste TAPE GUIDE (Refer to 5-3-3)

4	TAPE II 10kHz PB LEVEL
1.	10kHz Test Tape (AT-750778)
2.	PLAY
3.	VR132 (L CH), VR132b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • -20 ± 0.3dBm * Confirm in REV PLAY mode

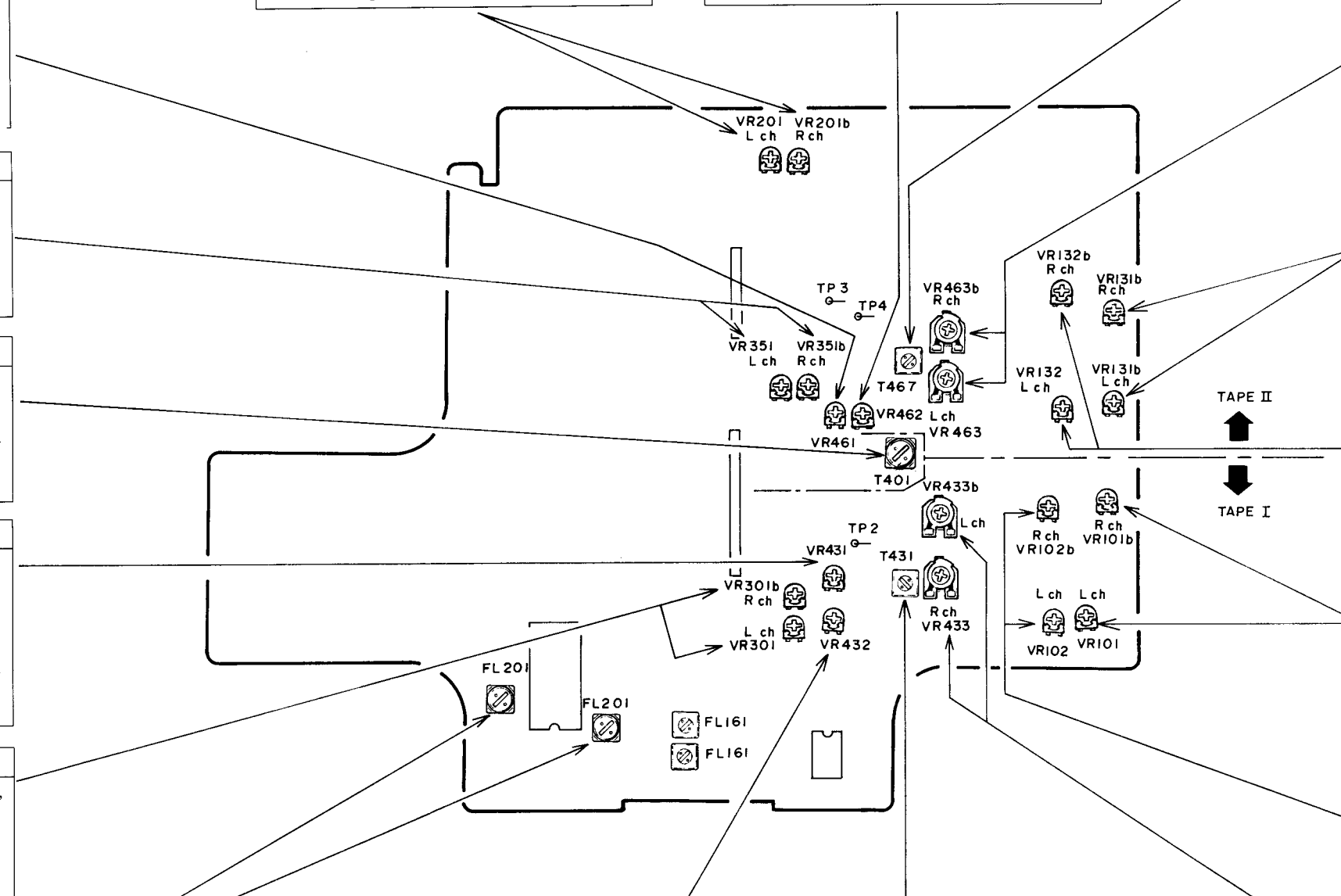
3	TAPE I PB LEVEL
1.	315Hz Test Tape (AT-750773)
2.	PLAY
3.	VR101 (L CH), VR101b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • -6.0 ± 0.2dBm * When level difference between FWD and REV mode is more than ±0.5dB, Readjuste TAPE GUIDE (Refer to 5-3-3)

5	TAPE I 10kHz PB LEVEL
1.	10kHz Test Tape (AT-750778)
2.	PLAY
3.	VR102 (L CH), VR102b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • -20 ± 0.3dBm * Confirm in REV PLAY mode

10	TAPE I NORMAL POSITION BIAS
1.	1kHz, 10kHz, -26dBm (LINE OUT) Normal Blank Tape
2.	FWD REC → PLAY
3.	VR433 (L CH), VR433b (R CH)
4.	• Connect an AC milli-volt meter to LINE OUT • Play back levels of 1kHz and 10kHz are equal or within 0.5dBm * Confirm in REV REC → PB

14	TAPE I METAL POSITION BIAS
1.	1kHz, 10kHz, -26dBm (LINE OUT), METAL Blank Tape
2.	FWD REC → PLAY
3.	VR432
4.	• Connect an AC milli-volt meter to LINE OUT • Play back levels of 1kHz and 10kHz are equal or within 0.5dBm * Confirm in REV REC → PB

8	TAPE I DIP POINT
1.	No Signal input, CrO ₂ Blank Tape
2.	REC
3.	T431
4.	• Connect a Digital DC Volt meter between TP3(+) and TP4(-) • Minimized DC voltage



VII. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. 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
2-1x	BH-T2023A320A	HEAD BASE BLOCK
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	SP CS ANGLE ADJUST

- SP (Service Parts) Classification
- A small "x" indicates that this part is not shown in the Photo or Illustration.
- This number corresponds with the individual parts index number in that figure.
- This number corresponds with the Figure Number.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
6-C1B	EC-350949	C MMY V 223M 250DC [J]
6-C1C	EC-338397	C MMY V 223M 125AC [C,A]
6-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(Universal Area)
- [C]: CSA(Canada) [V]: VDE(W. Germany)
- [E]: CEE(Europe) [Y]: Custom Version
- [J]: JPN(Japan)
- 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

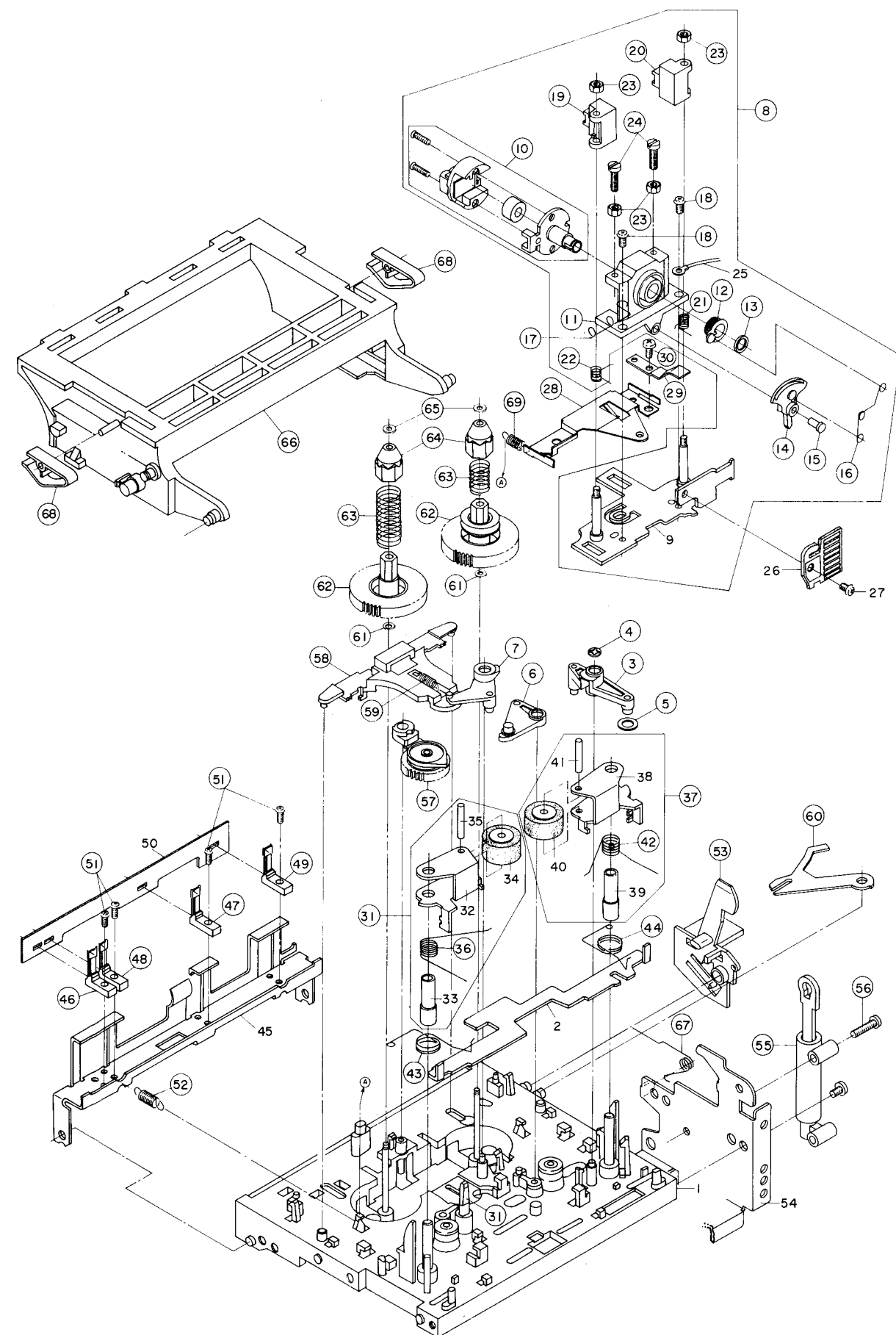
△ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

Ref. No.	Part No.	Description
1	BB-T2068A600K	NEW MECHA CMR37 BLK CMR37
2	BB-T2068A600L	NEW MECHA CMR38 BLK CMR38
3	BH-T2068A670G	NEW HEAD BLK CMR37 [INCL. 9 TO 25]
4	BH-T2068A530D	NEW PLATE ROTARY BLK CMR35
5	BL-T2068A380A	ARM PINCH ROLLER L BLK CMR31 [INCL. 32 TO 36]
6	BL-T2068A390A	ARM PINCH ROLLER R BLK CMR31 [INCL. 38 TO 42]
7	BM-B354697	MOTOR CAM PART CMR30 [M903]
8	BM-B354716	MOTOR CAPSTAN PART CMR30 [M901]
9	BM-B354714	MOTOR REEL PART CMR30 [M902]
10	*BT-370943	TRANS POWER T2097(B.S) [B]
11	*BT-370942	TRANS POWER T2097(E.V) [E.V]
12	EA-365288	PC ROTARY ENCODER (2)
13	ED-370963	D LED LN01201C-(LF) RED
14	ED-370962	D LED LN38GCPP(G).AK GREEN
15	ED-370976	D LED SLB-22PW3
16	ED-344244	D LED SLF-601C AMBER
17	*ED-330319	D SILICON DBA10B 100/1.0A
18	ED-307572	D SILICON H 1SS131
19	*ED-330622	D SILICON 1SR35-100VL 100/1.0A
20	ED-329057	D ZENER H HZ11 A1
21	ED-315759	D ZENER H HZ16 1
22	ED-313846	D ZENER H HZ16 3
23	ED-346592	D ZENER H HZ3 A2
24	ED-305655	D ZENER H HZ4 B3
25	ED-337265	D ZENER H HZ6 C2
26	ED-319167	D ZENER H HZ6 C3
27	ED-331667	D ZENER H HZ7 A1
28	ED-348006	D ZENER V HZ2C-3S7
29	*EF-358974	FUSE BET T 250V 630MA [B]
30	*EF-601964	FUSE SEMKO T 250V 1.60A [E]
31	*EF-601942	FUSE SEMKO T 250V 630MA [E]
32	EH-368944	COMP R M-5224
33	EH-328491	FILTER DB D07-003K 100KHZ
34	EH-370972	FILTER LC LP 370972
35	EI-373980	IC BA15218N
36	EI-359985	IC CX20187
37	EI-356327	IC HA12067NT
38	EI-337013	IC LB1290
39	EI-355602	IC LB1649
40	EI-337008	IC LC7800
41	EI-370973	IC M4066BP
42	EI-370981	IC M50791SP
43	EI-368952	IC M50955-500SP CUSTOM
44	EI-357498	IC M51143AL
45	EI-348785	IC M5220L
46	EI-368957	IC M5239L
47	EI-368953	OSC CE W/C FCR6.0MC 6MHZ
48	EM-368955	IND FL BG-463G
49	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G
50	*ER-349424	R FUSE H S10 ERD2FC 1/4W 18R0G
51	ES-354767	SW LEAF BSW-243 [SW1]
52	ES-371104	SW PUSH SDDL1082A 01-1
53	ES-370965	SW SLIDE SSSU02 1-01-03N
54	ES-370964	SW SLIDE SSSU02 2-02-03N
55	ES-359172	SW TACT SKHAP
56	ES-360576	SW TACT SKHHPM
57	ET-345091	DETECTOR SPI-201-40 B.C [PH1]
58	ET-359485	DETECTOR SPI-313
59	ET-369248	TR DTA114YS
60	ET-372030	TR DTA144EF
61	ET-353897	TR DTC114ES

Ref. No.	Part No.	Description
62	ET-354365	TR DTC114YS
63	ET-354364	TR DTC143TS
64	ET-354414	TR DTC144ES
65	ET-308472	TR 2SA1115 E.F.G F05
66	ET-352726	TR 2SA1392 T.U
67	ET-308977	TR 2SC2274K F F05
68	ET-308141	TR 2SC2603 G F05
69	ET-349081	TR 2SC3383 S.T
70	ET-349608	TR 2SC3383 T.U
71	*ET-354083	TR 2SD1189 Q.R
72	*ET-379239	TR 2SD1380 Q.R
73	*ET-366581	TR 2SD1762 E.F
74	MB-370439	BELT CAPSTAN (B)
75	MI-354706	FLYWHEEL
76	ML-B354723-A	ARM WIND PART CMR30
77	MR-359138-A	PULLEY REEL (B)

MECHA CMR37 BLOCK (1)



2. MECHA CMR37 BLOCK (1)

Ref. No.	Part No.	Description
3	ML-354699	LEVER PINCH ROLLER DRIVE
4	ZW-340648	RING CS 190STL PKR
5	ZW-259661	PW30X050X025PSL
6	ML-354700	LEVER HEAD DRIVE
7	ML-354701	LEVER BRAKE DRIVE
8	BH-T2068A670G	NEW HEAD BLK CMR37 [INCL. 9 TO 25]
10	BH-T2068A530D	NEW PLATE ROTARY BLK CMR35
11	HZ-354764B	HOLDER HEAD (B)
12	HZ-354673	GEAR ROTARY
13	ZW-354674	PW38X055X050PSL
14	HZ-354675	LEVER GEAR REVERSE
15	HZ-354676	PROP GEAR REVERSE
16	ZG-354745-A	SP TORSION ROTARY
17	ZG-362039	SP BAND
18	ZS-499331	PAN23X05STL CMT
19	ET-359485	DETECTOR SPI-313
20	HZ-361987	GUIDE TAPE(B)
21	ZG-361289-A	SP TORSION GUIDE(L)
22	ZG-361290-A	SP TORSION GUIDE(R)
23	ZW-618884	N20STL CMT 1
24	ZS-344001	SCREW AZIMUTH
27	ZS-368961	ST PAN23X05STL NI3
28	ZG-354749-A	SP PLATE HEAD HOLDER
29	HZ-364561	PLATE HEAD
30	ZS-336613	PT PAN26X06STL CMT
31	BL-T2068A380A	ARM PINCH ROLLER L BLK CMR31 [INCL. 32 TO 36]
34	MP-346329	PINCH ROLLER(C)
36	ZG-354750	SP TORSION PINCH ROLLER (L)
37	BL-T2068A390A	ARM PINCH ROLLER R BLK CMR31 [INCL. 38 TO 42]
40	MP-346329	PINCH ROLLER(C)
42	ZG-354751-A	SP TORSION PINCH ROLLER (R)
43	ZG-354752	SP TORSION RETURN (L)
44	ZG-354753	SP TORSION RETURN (R)
46	ES-354767	SW LEAF BSW-243 [SW1]
47	ES-354767	SW LEAF BSW-243 [SW2]
48	ES-354767	SW LEAF BSW-243 [SW3]
49	ES-354767	SW LEAF BSW-243 [SW4]
50	ZS-464703	BID20X04STL CMT
52	ZG-355265	SP PULL HOLDER LEAF(B)
53	ML-370441	LEVER EJECT (R)
55	MZ-344297	DAMPER ASSY
56	ZS-346786	ST PAN26X12STL CMT
57	ML-B354723-A	ARM WIND PART CMR30
58	MZ-354734-A	SLIDE BRAKE
59	ZG-357808	SP T6-03.2/0.29-11.2 T6-059
60	ML-367478	LEVER INTER LOCK (R)
61	ZW-305546	PW21X040X025PSL
62	MR-359138-A	PULLEY REEL (B)
63	ZG-354718	SP PUSH BT (B)
64	MT-349681	REEL RETAINER(B)
65	ZW-343120	PW17X040X025PSL
66	BD-B359140-C	LID CASE(B) PART
67	ZG-370437	SP TORSION EJECT (R)
68	ZG-336615	SP PLATE CASSETTE HOLDER (B)
69	ZG-355133	SP PULL EARTH

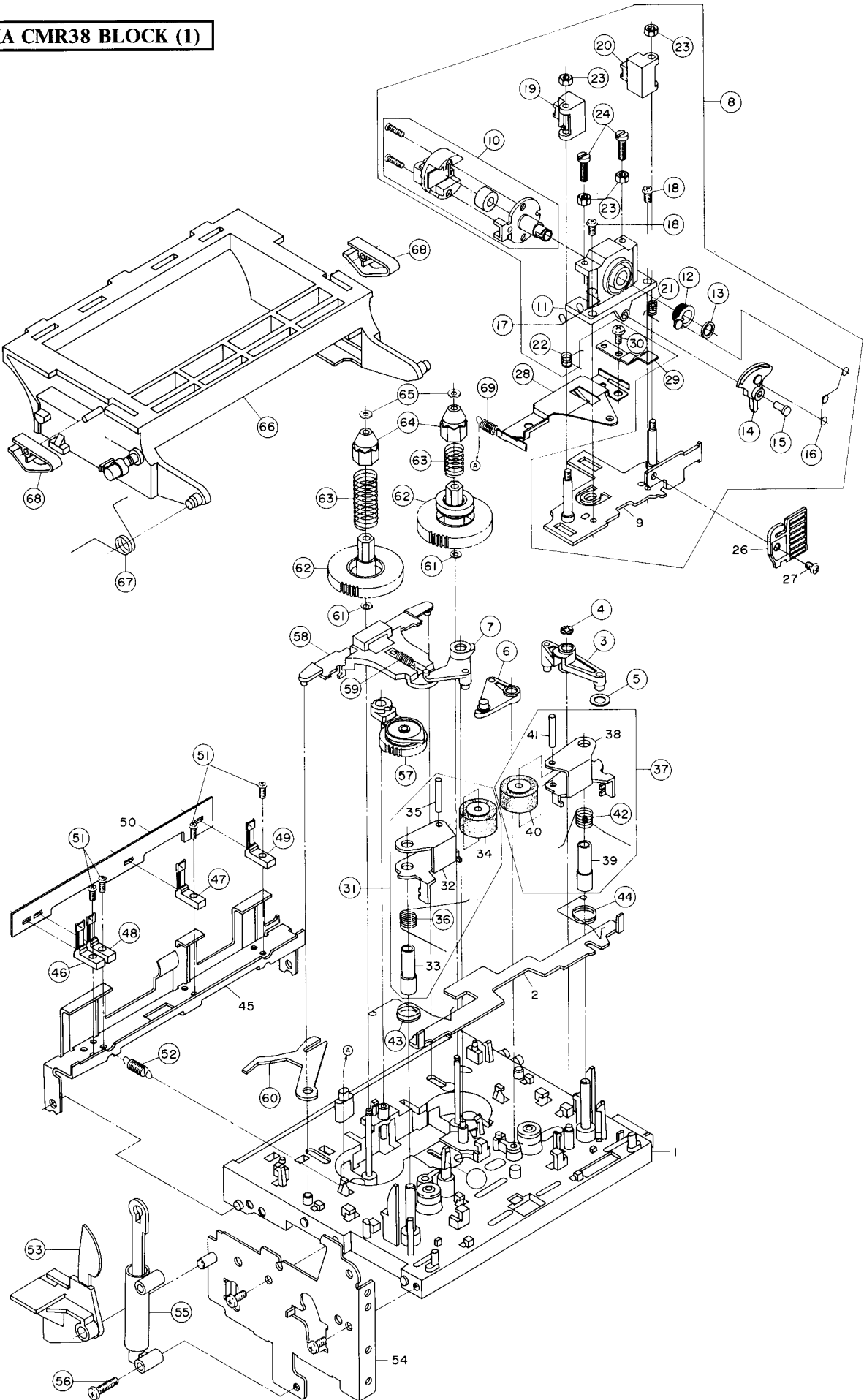
Note:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

3. MECHA CMR38 BLOCK (1)

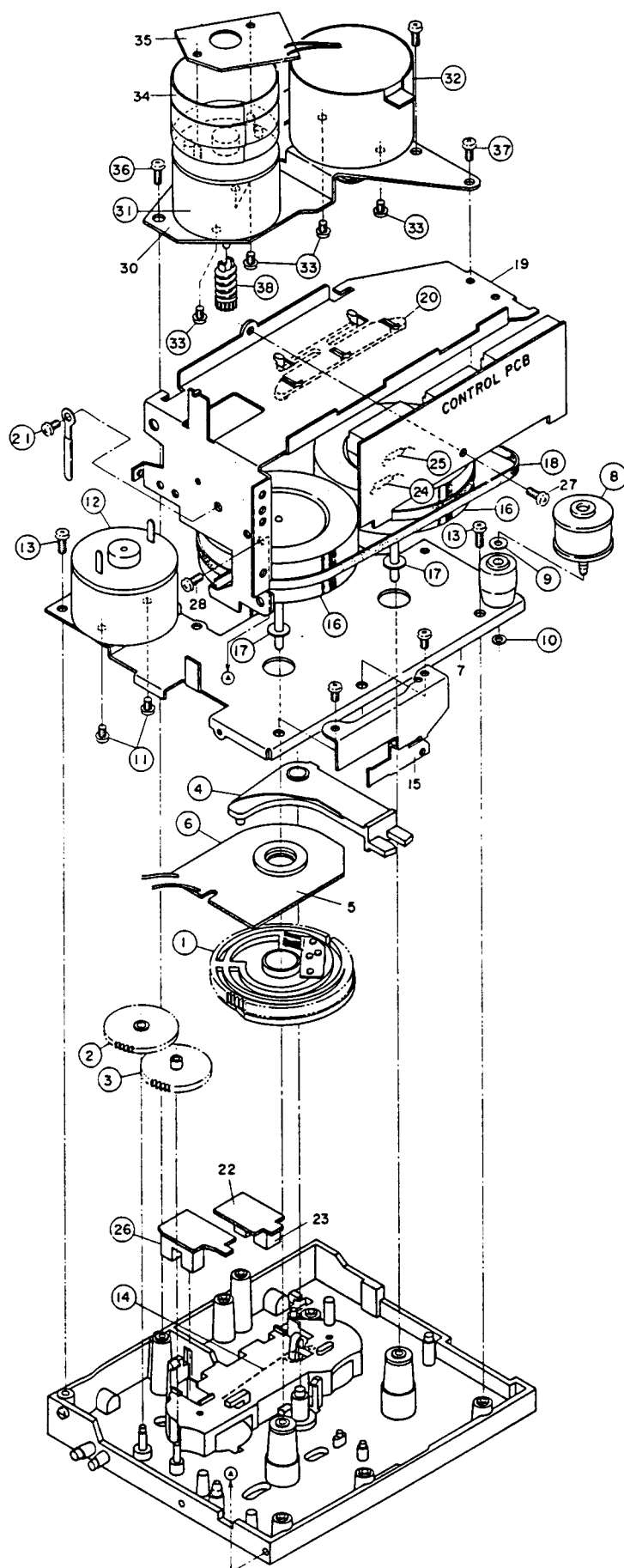
Ref. No.	Part No.	Description
3	ML-354699	LEVER PINCH ROLLER DRIVE
4	ZW-340648	RING CS 190STL PKR
5	ZW-259661	PW30X050X025PSL
6	ML-354700	LEVER HEAD DRIVE
7	ML-354701	LEVER BRAKE DRIVE
8	BH-T2068A670G	NEW HEAD BLK CMR37 [INCL. 9 TO 25]
10	BH-T2068A530D	NEW PLATE ROTARY BLK CMR35
11	HZ-354764B	HOLDER HEAD (B)
12	HZ-354673	GEAR ROTARY
13	ZW-354674	PW38X055X050PSL
14	HZ-354675	LEVER GEAR REVERSE
15	HZ-354676	PROP GEAR REVERSE
16	ZG-354745-A	SP TORSION ROTARY
17	ZG-362039	SP BAND
18	ZS-499331	PAN23X05STL CMT
19	ET-359485	DETECTOR SPI-313
20	HZ-361987	GUIDE TAPE(B)
21	ZG-361289-A	SP TORSION GUIDE(L)
22	ZG-361290-A	SP TORSION GUIDE(R)
23	ZW-618884	N20STL CMT 1
24	ZS-344001	SCREW AZIMUTH
27	ZS-368961	ST PAN23X05STL NI3
28	ZG-354749-A	SP PLATE HEAD HOLDER
29	HZ-364561	PLATE HEAD
30	ZS-336613	PT PAN26X06STL CMT
31	BL-T2068A380A	ARM PINCH ROLLER L BLK CMR31 [INCL. 32 TO 36]
34	MP-346329	PINCH ROLLER(C)
36	ZG-354750	SP TORSION PINCH ROLLER (L)
37	BL-T2068A390A	ARM PINCH ROLLER R BLK CMR31 [INCL. 38 TO 42]
40	MP-346329	PINCH ROLLER(C)
42	ZG-354751-A	SP TORSION PINCH ROLLER (R)
43	ZG-354752	SP TORSION RETURN (L)
44	ZG-354753	SP TORSION RETURN (R)
46	ES-354767	SW LEAF BSW-243 [SW1]
47	ES-354767	SW LEAF BSW-243 [SW2]
48	ES-354767	SW LEAF BSW-243 [SW3]
49	ES-354767	SW LEAF BSW-243 [SW4]
50	ZS-464703	BID20X04STL CMT
52	ZG-355265	SP PULL HOLDER LEAF(B)
53	ML-359134	LEVER EJECT (L)
55	MZ-344099	DAMPER ASSY
56	ZS-343113	ST PAN20X12STL CMT
57	ML-B354723-A	ARM WIND PART CMR30
58	MZ-354734-A	SLIDE BRAKE
59	ZG-357808	SP T6-03.2/0.29-11.2 T6-059
60	ML-359135	LEVER INTER LOCK
61	ZW-305546	PW21X040X025PSL
62	MR-359138-A	PULLEY REEL (B)
63	ZG-354718	SP PUSH BT (B)
64	MT-349681	REEL RETAINER(B)
65	ZW-343120	PW17X040X025PSL
66	BD-B359140-C	LID CASE(B) PART
67	ZG-359139	SP TORSION EJECT
68	ZG-336615	SP PLATE CASSETTE HOLDER (B)
69	ZG-355133	SP PULL EARTH

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.

MECHA CMR38 BLOCK (1)



MECHA CMR37 / 38 BLOCK (2)



4. MECHA CMR37 / 38 BLOCK (2)

Ref. No.	Part No.	Description
1	MZ-B354735	CAM WHEEL MAIN PART CMR30
2	MZ-354682	GEAR CAM (B)
3	MZ-354683	GEAR CAM (C)
4	ML-354685	ARM HEAD REVERSE
6	EA-365288	PC ROTARY ENCODER (2)
8	MR-B354695	PULLEY MIDDLE PART CMR30
9	ZW-367201	WASHER THRUST
10	ZW-343120	PW17X040X025PSL
11	ZS-592378	PAN26X03STL CMT
12	BM-B354697	MOTOR CAM PART CMR30 [M903]
13	ZS-336613	PT PAN26X06STL CMT
14	ZG-355016	SP TORSION EARTH
16	MI-354706	FLYWHEEL
17	ZW-536466	PW21X070X050NYL
18	MB-370439	BELT CAPSTAN (B)
20	MZ-354709	HOLDER THRUST
21	ZS-321194	ST PAN26X05STL CMT
23	ET-345091	DETECTOR SPI-201-40 B,C [PH1]
24	ER-306127	R CB H S15 FS RDS 1/2W 681J [R1]
25	ER-333668	R CB H S15 FS RDS 1/2W 431J [R3]
26	ET-345091	DETECTOR SPI-201-40 B,C [PH100]
27	ZS-343159	T2BR30X06STL NI3
28	ZS-336613	PT PAN26X06STL CMT
29	ZS-321194	ST PAN26X05STL CMT
31	BM-B354714	MOTOR REEL PART CMR30 [M902]
32	BM-B354716	MOTOR CAPSTAN PART CMR30 [M901]
33	ZS-592378	PAN26X03STL CMT
36	ZS-336613	PT PAN26X06STL CMT
37	ZS-321194	ST PAN26X05STL CMT
38	MZ-354715	GEAR WORM WIND

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.

5. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-T2104A020B	PC(=)PRE AMP BLK GX-M959W(E)
2	BA-T2104A030A	PC(=)SYSCON BLK GX-W930

NOTE:

PC (#) PRE-AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- * MAIN AMP P.C BOARD
- * PRE-AMP P.C BOARD
- * HEADPHONE P.C BOARD
- * LED P.C BOARD
- * CRLP P.C BOARD

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

- * SYSCON P.C BOARD
- * FLD P.C BOARD
- * TAPE (1) OPERATION P.C BOARD
- * FF/REW OPERATION P.C BOARD
- * TAPE (2) OPERATION P.C BOARD
- * SELECTOR SW P.C BOARD
- * DOLBY SW P.C BOARD
- * REC EQ P.C BOARD

6. PRE AMP P.C BOARD

Ref. No.	Part No.	Description
C503	EC-375358	C EC V CUT SME 103M 16.0DC
C504	EC-353388	C EC V CUT 04W 682M 16.0DC
C509	EC-364959	C EC V CUT SME 332M 25.0DC
C514	EC-320548	C CE V F 103Z 250AC
C514	EC-338411	C CE V FZ 103P 400AC
D431	ED-348006	D ZENER V HZ2C-3S7
D432	ED-307572	D SILICON H 1SS131
D461	ED-348006	D ZENER V HZ2C-3S7
D462	ED-307572	D SILICON H 1SS131
D501	ED-337265	D ZENER H HZ6 C2
D502	ED-307572	D SILICON H 1SS131
D503	*ED-330319	D SILICON DBA10B 100/1.0A
D504	*ED-330622	D SILICON 1SR35-100VL 100/1.0A
D505	*ED-330622	D SILICON 1SR35-100VL 100/1.0A
D506	ED-319167	D ZENER H HZ6 C3
D507	ED-319167	D ZENER H HZ6 C3
D508	*ED-330319	D SILICON DBA10B 100/1.0A
D509	*ED-330622	D SILICON 1SR35-100VL 100/1.0A
D510	*ED-330622	D SILICON 1SR35-100VL 100/1.0A
D511	ED-313846	D ZENER H HZ16 3
D512	ED-315759	D ZENER H HZ16 1
D513	ED-305655	D ZENER H HZ4 B3
D601	ED-329057	D ZENER H HZ11 A1
D651	ED-307572	D SILICON H 1SS131
FL161	EH-328491	FILTER DB D07-003K 100KHZ
FL201	EH-370972	FILTER LC LP 370972
FL301	EO-368956	COIL TUN 1 1003A
FL351	EO-368956	COIL TUN 1 1003A
FR431	*ER-328278	R FUSE H ERD2FC 1/4W 10ROG
FR461	*ER-328278	R FUSE H ERD2FC 1/4W 10ROG
FR751	*ER-349424	R FUSE H S10 ERD2FC 1/4W 18ROG
IC101	EI-348785	IC M5220L
IC131	EI-348785	IC M5220L
IC161	EI-370973	IC M4066BP
IC201	EI-359985	IC CX20187
IC301	EI-373980	IC BA15218N
IC351	EI-373980	IC BA15218N
IC601	EI-373980	IC BA15218N
IC602	EI-373980	IC BA15218N
IC651	EI-373980	IC BA15218N
IC652	EI-368957	IC M5239L
IC701	EI-357498	IC M51143AL
IC751	EI-373980	IC BA15218N
J201	EJ-336905	PIN J AJC-035-ACB P 4P
L201	EO-337523	COIL FIX 1 TL-8 223J
L431	EO-345927	COIL FIX 1 LAL03KH 101K
L461	EO-345927	COIL FIX 1 LAL03KH 101K
SW501	ES-371104	SW PUSH SDDL1082A 01-1
TR101	ET-349081	TR 2SC3383 S,T
TR102	ET-349081	TR 2SC3383 S,T
TR103	ET-349081	TR 2SC3383 S,T
TR104	ET-349081	TR 2SC3383 S,T
TR105	ET-349081	TR 2SC3383 S,T
TR106	ET-352726	TR 2SA1392 T,U
TR107	ET-353897	TR DTC114ES
TR108	ET-353897	TR DTC114ES
TR109	ET-353897	TR DTC114ES
TR110	ET-308141	TR 2SC2603 G F05
TR131	ET-349081	TR 2SC3383 S,T
TR132	ET-349081	TR 2SC3383 S,T
TR133	ET-349081	TR 2SC3383 S,T
TR134	ET-349081	TR 2SC3383 S,T
TR135	ET-352726	TR 2SA1392 T,U
TR136	ET-353897	TR DTC114ES
TR137	ET-353897	TR DTC114ES
TR138	ET-353897	TR DTC114ES
TR139	ET-308141	TR 2SC2603 G F05
TR161	ET-349081	TR 2SC3383 S,T
TR162	ET-349081	TR 2SC3383 S,T
TR163	ET-354414	TR DTC144ES
TR164	ET-354414	TR DTC144ES
TR201	ET-349081	TR 2SC3383 S,T
TR203	ET-349081	TR 2SC3383 S,T
TR204	ET-353897	TR DTC114ES

Ref. No.	Part No.	Description
TR205	ET-353897	TR DTC114ES
TR206	ET-353897	TR DTC114ES
TR207	ET-353897	TR DTC114ES
TR301	ET-349081	TR 2SC3383 S,T
TR351	ET-349081	TR 2SC3383 S,T
TR401	ET-353897	TR DTC114ES
TR402	ET-308141	TR 2SC2603 G F05
TR403	ET-308141	TR 2SC2603 G F05
TR431	ET-308141	TR 2SC2603 G F05
TR432	*ET-354083	TR 2SD1189 Q,R
TR433	ET-308141	TR 2SC2603 G F05
TR434	ET-308141	TR 2SC2603 G F05
TR435	ET-354364	TR DTC143TS
TR436	ET-354364	TR DTC143TS
TR437	ET-308977	TR 2SC2274K F F05
TR438	ET-308977	TR 2SC2274K F F05
TR461	ET-308141	TR 2SC2603 G F05
TR462	*ET-354083	TR 2SD1189 Q,R
TR463	ET-308141	TR 2SC2603 G F05
TR464	ET-308141	TR 2SC2603 G F05
TR465	ET-354364	TR DTC143TS
TR466	ET-354364	TR DTC143TS
TR467	ET-308977	TR 2SC2274K F F05
TR468	ET-308977	TR 2SC2274K F F05
TR501	*ET-308141	TR 2SC2603 G F05
TR502	ET-308472	TR 2SA1115 E,F,G F05
TR503	*ET-379239	TR 2SD1380 Q,R
TR504	*ET-308141	TR 2SC2603 G F05
TR505	*ET-308141	TR 2SC2603 G F05
TR506	*ET-366581	TR 2SD1762 E,F
TR507	ET-308141	TR 2SC2603 G F05
TR601	ET-349081	TR 2SC3383 S,T
TR602	ET-349081	TR 2SC3383 S,T
TR603	ET-349081	TR 2SC3383 S,T
TR604	ET-349081	TR 2SC3383 S,T
TR605	ET-349081	TR 2SC3383 S,T
TR606	ET-349081	TR 2SC3383 S,T
TR607	ET-349081	TR 2SC3383 S,T
TR608	ET-349081	TR 2SC3383 S,T
TR609	ET-308472	TR 2SA1115 E,F,G F05
TR610	ET-308472	TR 2SA1115 E,F,G F05
TR611	ET-308472	TR 2SA1115 E,F,G F05
TR612	ET-308472	TR 2SA1115 E,F,G F05
TR613	ET-308472	TR 2SA1115 E,F,G F05
TR614	ET-308472	TR 2SA1115 E,F,G F05
TR615	ET-308472	TR 2SA1115 E,F,G F05
TR651	ET-308141	TR 2SC2603 G F05
TR701	ET-349081	TR 2SC3383 S,T
T401	EO-373561	COIL OSC 1 24D6-01 100.0KHZ
T431	EO-373562	COIL OSC 1 23D9-01 100.0KHZ
T461	EO-373562	COIL OSC 1 23D9-01 100.0KHZ
VR101	EV-356581	R S-FIX H RH0615C 0.10W 331
VR102	EV-356583	R S-FIX H RH0615C 0.10W 332
VR131	EV-356581	R S-FIX H RH0615C 0.10W 331
VR132	EV-356583	R S-FIX H RH0615C 0.10W 332
VR201	EV-356582	R S-FIX H RH0615C 0.10W 473
VR301	EV-358829	R S-FIX H RH0615C 0.10W 223
VR351	EV-358829	R S-FIX H RH0615C 0.10W 223
VR431	EV-356577	R S-FIX H RH0615C 0.10W 103
VR432	EV-356575	R S-FIX H RH0615C 0.10W 222
VR433	EV-330531	R S-FIX H TM8KV2-1S 0.50W503
VR461	EV-356577	R S-FIX H RH0615C 0.10W 103
VR462	EV-356575	R S-FIX H RH0615C 0.10W 222
VR463	EV-330531	R S-FIX H TM8KV2-1S 0.50W503
F501A	*EF-601964	FUSE SEMKO T 250V 1.60A [E]
F501B	*EF-601964	FUSE SEMKO T 250V 1.60A [B]
F502A	*EF-601942	FUSE SEMKO T 250V 630MA [E]
F502B	*EF-358974	FUSE BET T 250V 630MA [B]

7. HEADPHONE P.C BOARD

Ref. No.	Part No.	Description
J802	EJ-369995	PHONE J 3P HLJ0540-410 GP 6.3

8. LED P.C BOARD

Ref. No.	Part No.	Description
D801	ED-370976	D LED SLB-22PW3

9. CRLP SW P.C BOARD

Ref. No.	Part No.	Description
TS801	ES-359172	SW TACT SKHHAP
TS802	ES-359172	SW TACT SKHHAP
TS803	ES-359172	SW TACT SKHHAP

10. SYSCON P.C BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-346592	D ZENER H HZ3 A2
D3	ED-331667	D ZENER H HZ7 A1
D4	ED-331667	D ZENER H HZ7 A1
D5	ED-346592	D ZENER H HZ3 A2
D6	ED-331667	D ZENER H HZ7 A1
D7	ED-331667	D ZENER H HZ7 A1
IB1	EH-368944	COMP R M-5224
IB2	EH-368945	COMP R M-5225
IB3	EH-368950	COMP R RKC4BS 104J
IB4	EH-368951	COMP R RKC9BS 103J
IC1	EI-337008	IC LC7800
IC2	EI-337008	IC LC7800
IC3	EI-368952	IC M50955-500SP CUSTOM
IC4	EI-370981	IC M50791SP
IC5	EI-355602	IC LB1649
IC6	EI-355602	IC LB1649
J1	EJ-344368	PHONE J 3P HSJ0847-010 O 3.5
TR1	ET-308141	TR 2SC2603 G F05
TR2	ET-354414	TR DTC144ES
TR3	ET-354414	TR DTC144ES
TR4	ET-354414	TR DTC144ES
TR5	ET-354414	TR DTC144ES
TR6	ET-354414	TR DTC144ES
TR7	ET-354414	TR DTC144ES
TR8	ET-354414	TR DTC144ES
TR9	ET-354414	TR DTC144ES
TR10	ET-354414	TR DTC144ES
TR11	ET-354414	TR DTC144ES
TR12	ET-354414	TR DTC144ES
TR13	ET-369248	TR DTA114YS
TR14	ET-369248	TR DTA114YS
TR15	ET-369248	TR DTA114YS
TR16	ET-369248	TR DTA114YS
TR17	ET-354414	TR DTC144ES
TR18	ET-354414	TR DTC144ES
TR19	ET-354414	TR DTC144ES
TR20	ET-354414	TR DTC144ES
TR21	ET-354414	TR DTC144ES
TR22	ET-308472	TR 2SA1115 E.F.G F05
TR23	ET-308141	TR 2SC2603 G F05
TR24	ET-308141	TR 2SC2603 G F05
TR25	ET-354414	TR DTC144ES

Ref. No.	Part No.	Description
TR26	ET-308472	TR 2SA1115 E.F.G F05
TR27	ET-308141	TR 2SC2603 G F05
TR28	ET-308141	TR 2SC2603 G F05
TR29	ET-353897	TR DTC114ES
TR30	ET-308141	TR 2SC2603 G F05
TR31	ET-308472	TR 2SA1115 E.F.G F05
TR32	ET-353897	TR DTC114ES
TR33	ET-308141	TR 2SC2603 G F05
TR34	ET-308472	TR 2SA1115 E.F.G F05
VR1	EV-345783	R S-FIX H RVF8P01 0.10W 204
VR2	EV-345783	R S-FIX H RVF8P01 0.10W 204
VR3	EV-345781	R S-FIX H RVF8P01 0.10W 202
VR4	EV-345781	R S-FIX H RVF8P01 0.10W 202
VR5	EV-345781	R S-FIX H RVF8P01 0.10W 202
VR6	EV-345781	R S-FIX H RVF8P01 0.10W 202
X1	EI-368953	OSC CE W/C FCR6.0MC 6MHZ

11. FLD P.C BOARD

Ref. No.	Part No.	Description
IC101	EI-337013	IC LB1290
IC102	EI-337013	IC LB1290
IC103	EI-356327	IC HA12067NT
IN101	EM-368955	IND FL BG-463G
TR101	ET-372030	TR DTA144EF
TR102	ET-372030	TR DTA144EF
TR103	ET-372030	TR DTA144EF
TR104	ET-354365	TR DTC114YS
TR105	ET-354365	TR DTC114YS
TR106	ET-354365	TR DTC114YS
TS101	ES-360576	SW TACT SKHHPM
TS102	ES-360576	SW TACT SKHHPM
TS103	ES-360576	SW TACT SKHHPM

12. TAPE (1) OPERATION P.C BOARD

Ref. No.	Part No.	Description
IN201	ED-370962	D LED LN38GCPP(G).AK GREEN
IN202	ED-370962	D LED LN38GCPP(G).AK GREEN
TS201	ES-360576	SW TACT SKHHPM
TS202	ES-360576	SW TACT SKHHPM
TS203	ES-360576	SW TACT SKHHPM

13. FF/REW OPERATION P.C BOARD

Ref. No.	Part No.	Description
IN301	ED-370963	D LED LN01201C-(LF) RED
IN302	ED-370963	D LED LN01201C-(LF) RED
IN303	ED-370963	D LED LN01201C-(LF) RED
TS301	ES-360576	SW TACT SKHHPM
TS302	ES-360576	SW TACT SKHHPM
TS303	ES-360576	SW TACT SKHHPM
TS304	ES-360576	SW TACT SKHHPM
TS305	ES-360576	SW TACT SKHHPM
TS306	ES-360576	SW TACT SKHHPM
TS307	ES-360576	SW TACT SKHHPM

14. TAPE (2) OPERATION P.C BOARD

Ref. No.	Part No.	Description
IN401	ED-370962	D LED LN38GCPP(G).AK GREEN
IN402	ED-370962	D LED LN38GCPP(G).AK GREEN
TS401	ES-360576	SW TACT SKHHPM
TS402	ES-360576	SW TACT SKHHPM
TS403	ES-360576	SW TACT SKHHPM

15. SELECTOR SW P.C BOARD

Ref. No.	Part No.	Description
D501	ED-307572	D SILICON H 1SS131
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D504	ED-307572	D SILICON H 1SS131
SW501	ES-370964	SW SLIDE SSSU02 2-02-03N
SW502	ES-370964	SW SLIDE SSSU02 2-02-03N
SW503	ES-370965	SW SLIDE SSSU02 1-01-03N
TS501	ES-360576	SW TACT SKHHPM

16. DOLBY SW P.C BOARD

Ref. No.	Part No.	Description
SW601	ES-370965	SW SLIDE SSSU02 1-01-03N
TS601	ES-360576	SW TACT SKHHPM

17. REC. EQ P.C BOARD

Ref. No.	Part No.	Description
D701	ED-307572	D SILICON H 1SS131
D702	ED-307572	D SILICON H 1SS131
D703	ED-307572	D SILICON H 1SS131
D704	ED-307572	D SILICON H 1SS131
D705	ED-307572	D SILICON H 1SS131
D706	ED-307572	D SILICON H 1SS131
D707	ED-307572	D SILICON H 1SS131
L701	EO-371969	COIL FIX3 E1472T682J 682J/472J
L702	EO-361292	COIL FIX 1 RC875 682J
TR701	ET-369248	TR DTA114YS
TR702	ET-354365	TR DTC114YS
TR703	ET-354365	TR DTC114YS
TR704	ET-354365	TR DTC114YS
TR705	ET-369248	TR DTA114YS
TR706	ET-354365	TR DTC114YS
TR707	ET-354365	TR DTC114YS
TR708	ET-354365	TR DTC114YS
TR709	ET-369248	TR DTA114YS
TR710	ET-354365	TR DTC114YS
TR711	ET-354365	TR DTC114YS
TR712	ET-308141	TR 2SC2603 G F05
TR713	ET-369248	TR DTA114YS
TR714	ET-369248	TR DTA114YS
TR715	ET-369248	TR DTA114YS
TR716	ET-369248	TR DTA114YS
TR717	ET-369248	TR DTA114YS
TR718	ET-349608	TR 2SC3383 T,U
TR719	ET-349608	TR 2SC3383 T,U
TR720	ET-349608	TR 2SC3383 T,U
TR721	ET-349608	TR 2SC3383 T,U
TR722	ET-349608	TR 2SC3383 T,U
TR723	ET-349608	TR 2SC3383 T,U
TR724	ET-369248	TR DTA114YS
TR725	ET-369248	TR DTA114YS
TR726	ET-369248	TR DTA114YS
TR727	ET-349608	TR 2SC3383 T,U
TR728	ET-349608	TR 2SC3383 T,U
TR729	ET-349608	TR 2SC3383 T,U
TR730	ET-354365	TR DTC114YS

18. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
3	ZS-342001	ST BR30X06STL NI3
5	ZS-358936	ST BR30X06XTL CMT
9A	*BT-370942	TRANS POWER T2097(E,V) [E,V]
9B	*BT-370943	TRANS POWER T2097(B,S) [B]
10	ZS-341959	ST BR40X06STL NI3

Ref. No.	Part No.	Description
11A	*EW-363668	AC CORD 200 0364 LCFL B250 A EV [E,V]
11B	*EW-363680	AC CORD 200 LCFL B250 A B [B]
12A	SP-370737K	PANEL REAR GX-M959W(E,V)
12B	SP-370737M	PANEL REAR GX-M959W(B,S)
13	ZS-345272	ST BR30X06STL BNI
14	ZS-350934	PT BR30X08STL BNI
16	ZS-354459	ST CTS30X06STL NI3
17	ZS-306021	ST PAN30X06STL CMT
18	MZ-553948	WIRE BAND F-100
19	MZ-603224	WIRE BAND B-150
20	BB-T2068A600K	NEW MECHA CMR37 BLK CMR37
21	ZS-337783	PT CTS30X08STL CMT
22	BB-T2068A600L	NEW MECHA CMR38 BLK CMR38
24	MZ-370680	JOINT POWER
25-G	SK-370688A-A	KNOB POWER (G)
25-B	SK-370688B-A	KNOB POWER(B)
26-G	SK-370690A-A	KNOB SLIDE
26-B	SK-370690B-A	KNOB SLIDE-B
27-G	BD-T2097A070D	PANEL FRONT BLK GX-W930-GD
27-B	BD-T2097A070E	PANEL FRONT BLK GX-W930-BK
29-G	SK-370774A	KNOB EJECT-G
29-B	SK-370774B	KNOB EJECT-B
30	ZG-370681	SP PUSH EJECT
31	MZ-321484	PLATE REEL TABLE
38-G	SC-370704A	CAP OPERATION FF
38-B	SK-370704B-A	CAP OPERATION F.F B
39-G	SC-370704C	CAP OPERATION REW
39-B	SC-370704D-A	CAP OPERATION REV B
40	ED-344244	D LED SLF-601C AMBER
41-G	SC-B370702A	CAP OPERATION FWD PART
41-B	SC-B370702B	CAP OPERATION FWD-B PART
42-G	SC-B370703A	CAP OPERATION REV PART
42-B	SC-B370703B	CAP OPERATION REV-B PART
43-G	SC-370701A	CAP OPERATION STOP
43-B	SC-370701B	CAP OPERATION STOP-B
45	SB-370694F	MEL BUTTON DUB(F)
46-G	SB-370695A	KNOB COUNTER
46-B	SB-370695B	BUTTON COUNTER-B
48-G	ZS-345272	ST BR30X06STL BNI
48-B	ZS-342001	ST BR30X06STL NI3
49	ZS-341989	ST CTS30X06STL CMT
50	ZS-337783	PT CTS30X08STL CMT
51	ZS-350933	PT BR23X06STL CMT
52	ZS-321194	ST PAN26X05STL CMT
53	SA-376945J	FOOT(2) PART
54	ZS-348375	ST BR30X08STL CMT
55	SE-370700	FILTER REMOCON
56-G	MZ-370692A	HOLDER DOOR
56-B	MZ-370692B	HOLDER DOOR-B
57-G	SP-370691D	DOOR(2)
57-B	SP-370691E	DOOR(2) B
58	ZS-350933	PT BR23X06STL CMT
59A-G	BD-T2097A050H	LID (L) BLK GX-M959W-G
59A-B	BD-T2097A050J	LID (L) BLK GX-M959W-B
60-G	BD-T2097A060D	LID (R) BLK GX-W930-GD
60-B	BD-T2097A060E	LID (R) BLK GX-W930-BK
61-G	SP-370682A	COVER UPPER
61-B	SP-370682B	COVER UPPER-B
62	SP-370711	SIDE BOARD (L)
63	SP-370712	SIDE BOARD (R)
64	ZS-365678	SCREW SLIDE TYPE W/WASHER(J)
65	ZS-345272	ST BR30X06STL BNI

SYMBOL FOR COLOR VARIATION

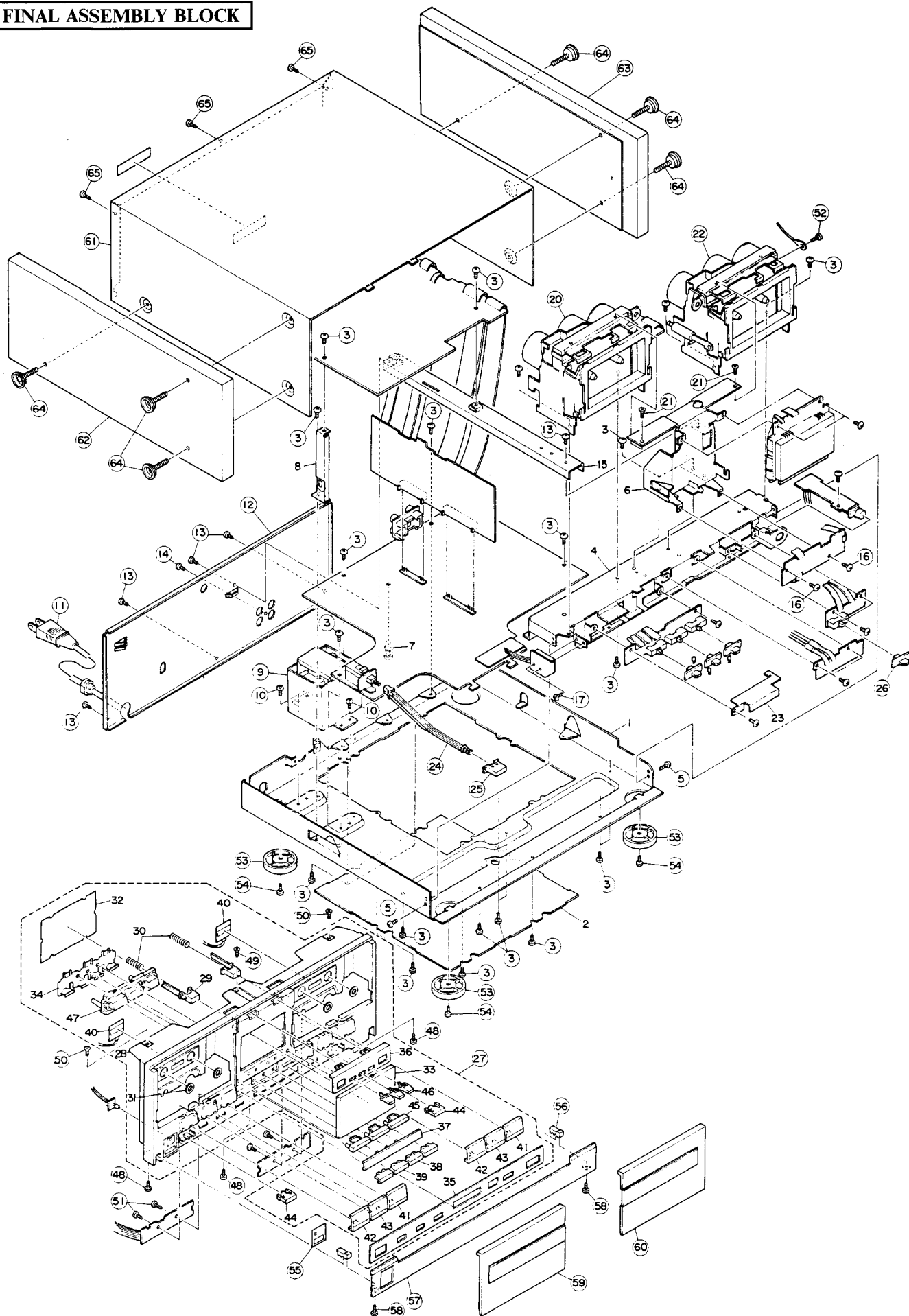
B: BLACK

G: GOLD

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.

FINAL ASSEMBLY BLOCK



PARTS LIST

INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
BA-T2104A020B	1	ED-331667	D3	EM-368955	IN101	ET-308141	TR33
BA-T2104A030A	2	ED-331667	D4	EO-337523	L201	ET-308141	TR712
BB-T2068A600K	1	ED-331667	D6	EO-345927	L431	ET-308472	65
BB-T2068A600K	20	ED-331667	D7	EO-345927	L461	ET-308472	TR502
BB-T2068A600L	2	ED-337265	25	EO-361292	L702	ET-308472	TR609
BB-T2068A600L	22	ED-337265	D501	EO-368956	FL301	ET-308472	TR610
BD-B359140-C	66	ED-344244	16	EO-368956	FL351	ET-308472	TR611
BD-B359140-C	66	ED-344244	40	EO-371969	L701	ET-308472	TR612
BD-T2097A050H	59A-G	ED-346592	23	EO-373561	T401	ET-308472	TR613
BD-T2097A050J	59A-B	ED-346592	D2	EO-373562	T431	ET-308472	TR614
BD-T2097A060D	60-G	ED-346592	D5	EO-373562	T461	ET-308472	TR615
BD-T2097A060E	60-B	ED-348006	28	ER-306127	24	ET-308472	TR22
BD-T2097A070D	27-G	ED-348006	D431	ER-328278	49	ET-308472	TR26
BD-T2097A070E	27-B	ED-348006	D461	ER-328278	FR431	ET-308472	TR31
BH-T2068A530D	4	ED-370962	14	ER-328278	FR461	ET-308472	TR34
BH-T2068A530D	10	ED-370962	IN201	ER-333668	25	ET-308977	67
BH-T2068A530D	10	ED-370962	IN202	ER-349424	50	ET-308977	TR437
BH-T2068A670G	3	ED-370962	IN401	ER-349424	FR751	ET-308977	TR438
BH-T2068A670G	8	ED-370962	IN402	ES-354767	51	ET-308977	TR467
BH-T2068A670G	8	ED-370963	13	ES-354767	46	ET-308977	TR468
BL-T2068A380A	5	ED-370963	IN301	ES-354767	47	ET-345091	57
BL-T2068A380A	31	ED-370963	IN302	ES-354767	48	ET-345091	23
BL-T2068A380A	31	ED-370963	IN303	ES-354767	49	ET-345091	26
BL-T2068A390A	6	ED-370976	15	ES-354767	46	ET-349081	69
BL-T2068A390A	37	ED-370976	D801	ES-354767	47	ET-349081	TR101
BL-T2068A390A	37	EF-358974	29	ES-354767	48	ET-349081	TR102
BM-B354697	7	EF-358974	F502B	ES-354767	49	ET-349081	TR103
BM-B354697	12	EF-601942	31	ES-359172	55	ET-349081	TR104
BM-B354714	9	EF-601942	F502A	ES-359172	TS801	ET-349081	TR105
BM-B354714	31	EF-601964	30	ES-359172	TS802	ET-349081	TR131
BM-B354716	8	EF-601964	F501A	ES-359172	TS803	ET-349081	TR132
BM-B354716	32	EF-601964	F501B	ES-360576	56	ET-349081	TR133
BT-370942	11	EH-328491	33	ES-360576	TS101	ET-349081	TR134
BT-370942	9A	EH-328491	FL161	ES-360576	TS102	ET-349081	TR161
BT-370943	10	EH-368944	32	ES-360576	TS103	ET-349081	TR162
BT-370943	9B	EH-368944	IB1	ES-360576	TS201	ET-349081	TR201
EA-365288	12	EH-368945	IB2	ES-360576	TS202	ET-349081	TR203
EA-365288	6	EH-368950	IB3	ES-360576	TS203	ET-349081	TR301
EC-320548	C514	EH-368951	IB4	ES-360576	TS301	ET-349081	TR351
EC-338411	C514	EH-370972	34	ES-360576	TS302	ET-349081	TR601
EC-353388	C504	EH-370972	FL201	ES-360576	TS303	ET-349081	TR602
EC-364959	C509	EI-337008	40	ES-360576	TS304	ET-349081	TR603
EC-375358	C503	EI-337008	IC1	ES-360576	TS305	ET-349081	TR604
ED-305655	24	EI-337008	IC2	ES-360576	TS306	ET-349081	TR605
ED-305655	D513	EI-337013	38	ES-360576	TS307	ET-349081	TR606
ED-307572	18	EI-337013	IC101	ES-360576	TS401	ET-349081	TR607
ED-307572	D432	EI-337013	IC102	ES-360576	TS402	ET-349081	TR608
ED-307572	D462	EI-348785	45	ES-360576	TS403	ET-349081	TR701
ED-307572	D502	EI-348785	IC101	ES-360576	TS501	ET-349608	70
ED-307572	D651	EI-348785	IC131	ES-360576	TS601	ET-349608	TR718
ED-307572	D1	EI-355602	39	ES-370964	54	ET-349608	TR719
ED-307572	D501	EI-355602	IC5	ES-370964	SW501	ET-349608	TR720
ED-307572	D502	EI-355602	IC6	ES-370964	SW502	ET-349608	TR721
ED-307572	D503	EI-356327	37	ES-370965	53	ET-349608	TR722
ED-307572	D504	EI-356327	IC103	ES-370965	SW503	ET-349608	TR723
ED-307572	D701	EI-357498	44	ES-370965	SW601	ET-349608	TR727
ED-307572	D702	EI-357498	IC701	ES-371104	52	ET-349608	TR728
ED-307572	D703	EI-359985	36	ES-371104	SW501	ET-349608	TR729
ED-307572	D704	EI-359985	IC201	ET-308141	68	ET-352726	66
ED-307572	D705	EI-368952	43	ET-308141	TR110	ET-352726	TR106
ED-307572	D706	EI-368952	IC3	ET-308141	TR139	ET-352726	TR135
ED-307572	D707	EI-368953	47	ET-308141	TR402	ET-353897	61
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ED-313846	D511	EI-368957	46	ET-308141	TR431	ET-353897	TR108
ED-315759	21	EI-368957	IC652	ET-308141	TR433	ET-353897	TR109
ED-315759	D512	EI-370973	41	ET-308141	TR434	ET-353897	TR136
ED-319167	26	EI-370973	IC161	ET-308141	TR461	ET-353897	TR137
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ED-319167	D507	EI-370981	IC4	ET-308141	TR464	ET-353897	TR204
ED-329057	20	EI-373980	35	ET-308141	TR501	ET-353897	TR205
ED-329057	D601	EI-373980	IC301	ET-308141	TR504	ET-353897	TR206
ED-330319	17	EI-373980	IC351	ET-308141	TR505	ET-353897	TR207
ED-330319	D503	EI-373980	IC601	ET-308141	TR507	ET-353897	TR401
ED-330319	D508	EI-373980	IC602	ET-308141	TR651	ET-353897	TR29
ED-330622	19	EI-373980	IC651	ET-308141	TR1	ET-353897	TR32
ED-330622	D504	EI-373980	IC751	ET-308141	TR23	ET-354083	71
ED-330622	D505	EJ-336905	J201	ET-308141	TR24	ET-354083	TR432
ED-330622	D509	EJ-344368	J1	ET-308141	TR27	ET-354083	TR462
ED-330622	D510	EJ-369995	J802	ET-308141	TR28	ET-354364	63
ED-331667	27	EM-368955	48	ET-308141	TR30	ET-354364	TR435

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
ET-354364	TR436	EV-358829	VR301	SP-370682A	61-G	ZW-259661	5
ET-354364	TR465	EV-358829	VR351	SP-370682B	61-B	ZW-305546	61
ET-354364	TR466	EW-363668	11A	SP-370691D	57-G	ZW-305546	61
ET-354365	62	EW-363680	11B	SP-370691E	57-B	ZW-340648	4
ET-354365	TR104	HZ-354673	12	SP-370711	62	ZW-340648	4
ET-354365	TR105	HZ-354673	12	SP-370712	63	ZW-343120	65
ET-354365	TR106	HZ-354675	14	SP-370737K	12A	ZW-343120	65
ET-354365	TR702	HZ-354675	14	SP-370737M	12B	ZW-343120	10
ET-354365	TR703	HZ-354676	15	ZG-336615	68	ZW-354674	13
ET-354365	TR704	HZ-354676	15	ZG-336615	68	ZW-354674	13
ET-354365	TR706	HZ-354764B	11	ZG-354718	63	ZW-367201	9
ET-354365	TR707	HZ-354764B	11	ZG-354718	63	ZW-536466	17
ET-354365	TR708	HZ-361987	20	ZG-354745-A	16	ZW-618884	23
ET-354365	TR710	HZ-361987	20	ZG-354745-A	16	ZW-618884	23
ET-354365	TR711	HZ-364561	29	ZG-354749-A	28		
ET-354365	TR730	HZ-364561	29	ZG-354749-A	28		
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ET-354414	TR164	MI-354706	75	ZG-354751-A	42		
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ET-354414	TR3	ML-B354723-A	76	ZG-354752	43		
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ET-354414	TR5	ML-B354723-A	57	ZG-354753	44		
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ET-354414	TR20	ML-370441	53	ZG-361289-A	21		
ET-354414	TR21	MP-346329	34	ZG-361290-A	22		
ET-354414	TR25	MP-346329	40	ZG-361290-A	22		
ET-359485	58	MP-346329	34	ZG-362039	17		
ET-359485	19	MP-346329	40	ZG-362039	17		
ET-359485	19	MR-B354695	8	ZG-370437	67		
ET-366581	73	MR-359138-A	77	ZG-370681	30		
ET-366581	TR506	MR-359138-A	62	ZS-306021	17		
ET-369248	59	MR-359138-A	62	ZS-321194	21		
ET-369248	TR13	MT-349681	64	ZS-321194	29		
ET-369248	TR14	MT-349681	64	ZS-321194	37		
ET-369248	TR15	MZ-B354735	1	ZS-321194	52		
ET-369248	TR16	MZ-321484	31	ZS-336613	30		
ET-369248	TR701	MZ-344099	55	ZS-336613	30		
ET-369248	TR705	MZ-344297	55	ZS-336613	13		
ET-369248	TR709	MZ-354682	2	ZS-336613	28		
ET-369248	TR713	MZ-354683	3	ZS-336613	36		
ET-369248	TR714	MZ-354709	20	ZS-337783	21		
ET-369248	TR715	MZ-354715	38	ZS-337783	50		
ET-369248	TR716	MZ-354734-A	58	ZS-341959	10		
ET-369248	TR717	MZ-354734-A	58	ZS-341989	49		
ET-369248	TR724	MZ-370680	24	ZS-342001	3		
ET-369248	TR725	MZ-370692A	56-G	ZS-342001	48-B		
ET-369248	TR726	MZ-370692B	56-B	ZS-343113	56		
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ET-372030	TR101	MZ-603224	19	ZS-344001	24		
ET-372030	TR102	SA-376945J	53	ZS-344001	24		
ET-372030	TR103	SB-370694F	45	ZS-345272	13		
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EV-345781	VR6	SC-370701B	43-B	ZS-354459	16		
EV-345783	VR1	SC-370704A	38-G	ZS-358936	5		
EV-345783	VR2	SC-370704C	39-G	ZS-365678	64		
EV-356575	VR432	SC-370704D-A	39-B	ZS-368961	27		
EV-356575	VR462	SE-370700	55	ZS-368961	27		
EV-356577	VR431	SK-370688A-A	25-G	ZS-464703	50		
EV-356577	VR461	SK-370688B-A	25-B	ZS-464703	50		
EV-356581	VR101	SK-370690A-A	26-G	ZS-499331	18		
EV-356581	VR131	SK-370690B-A	26-B	ZS-499331	18		
EV-356582	VR201	SK-370704B-A	38-B	ZS-592378	11		
EV-356583	VR102	SK-370774A	29-G	ZS-592378	33		
EV-356583	VR132	SK-370774B	29-B	ZW-259661	5		

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 (RECORDing)
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	SYS CON	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

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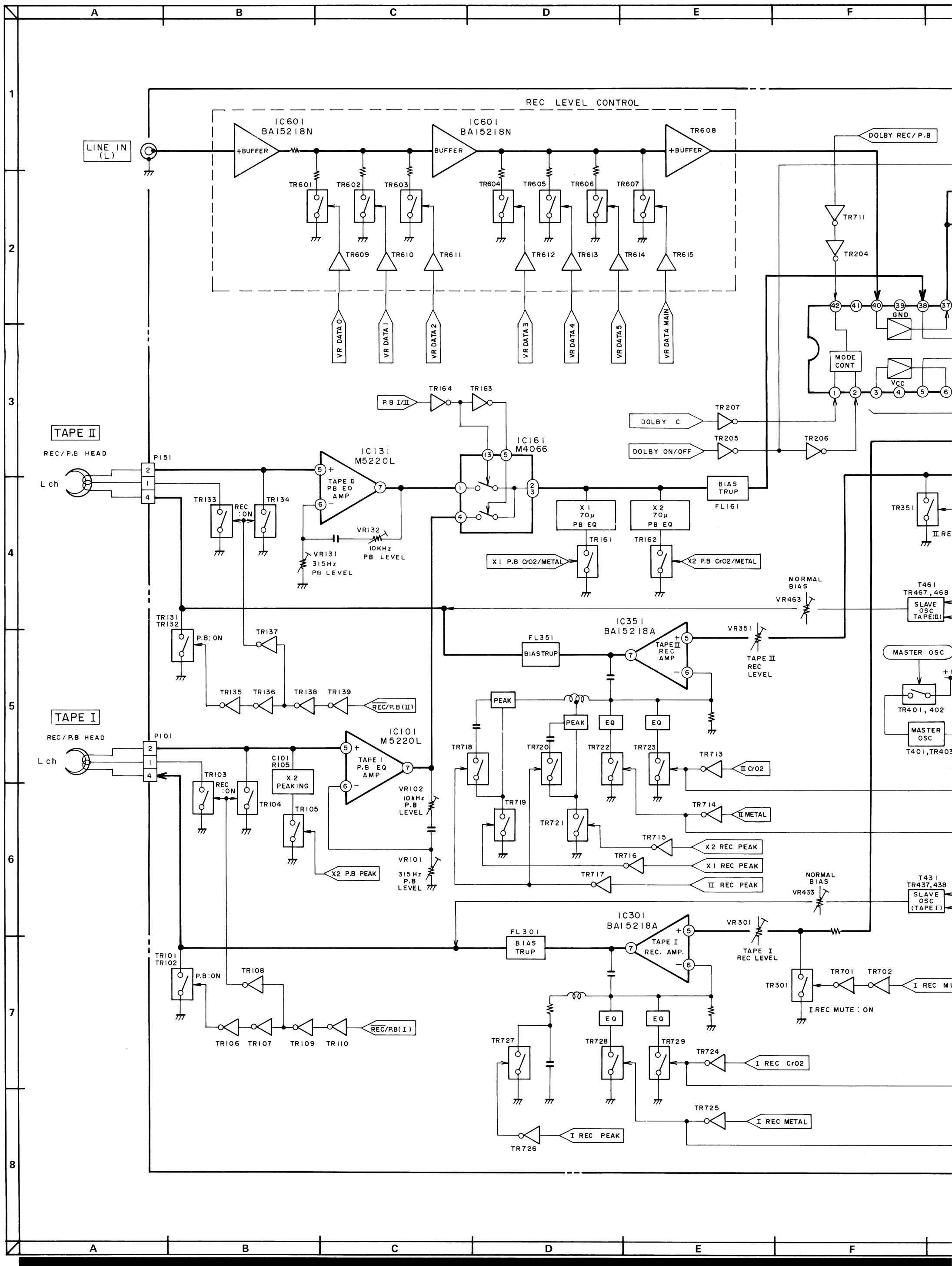
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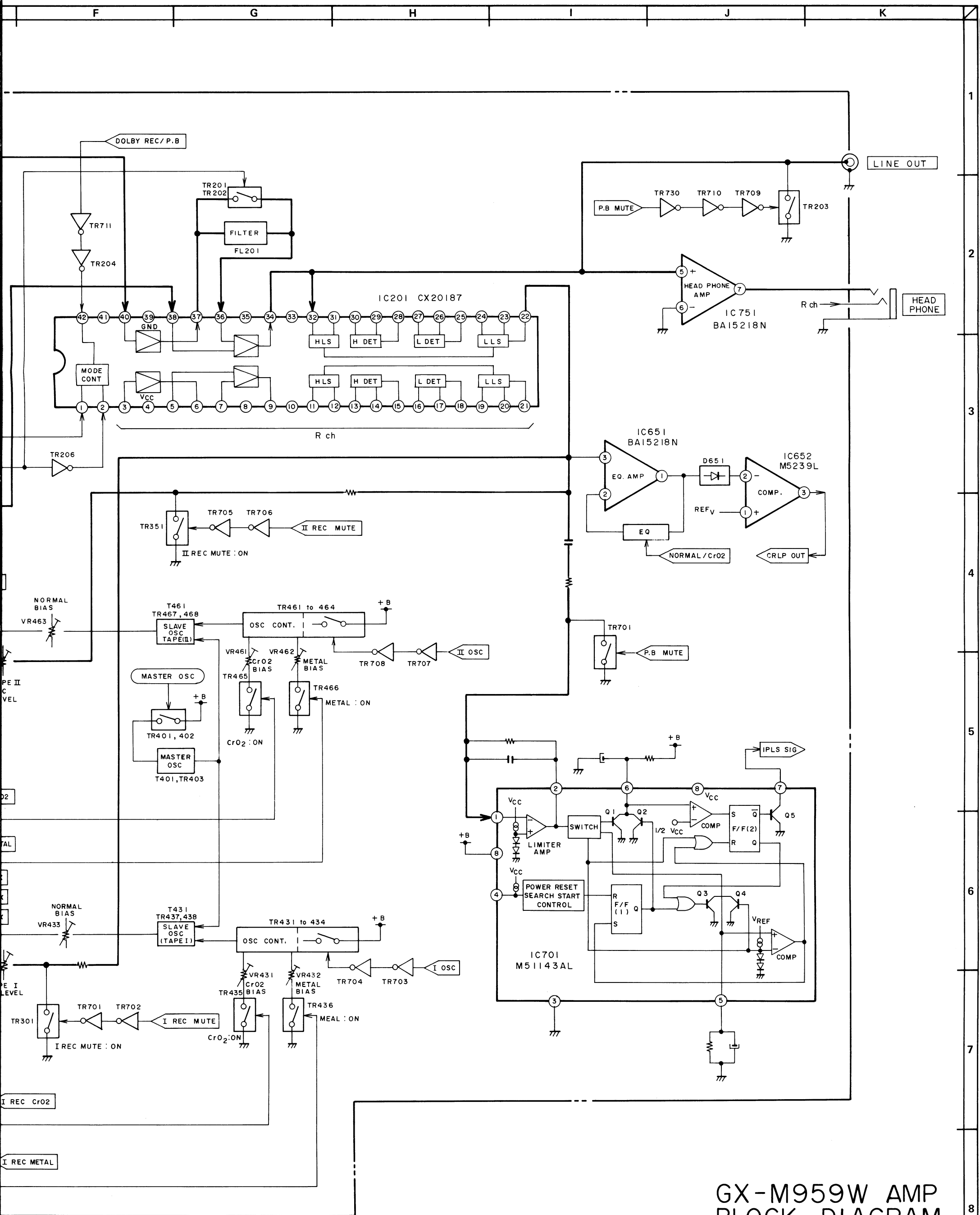
MODEL **GX-M959W**

SCHEMATIC DIAGRAM AND PC BOARDS

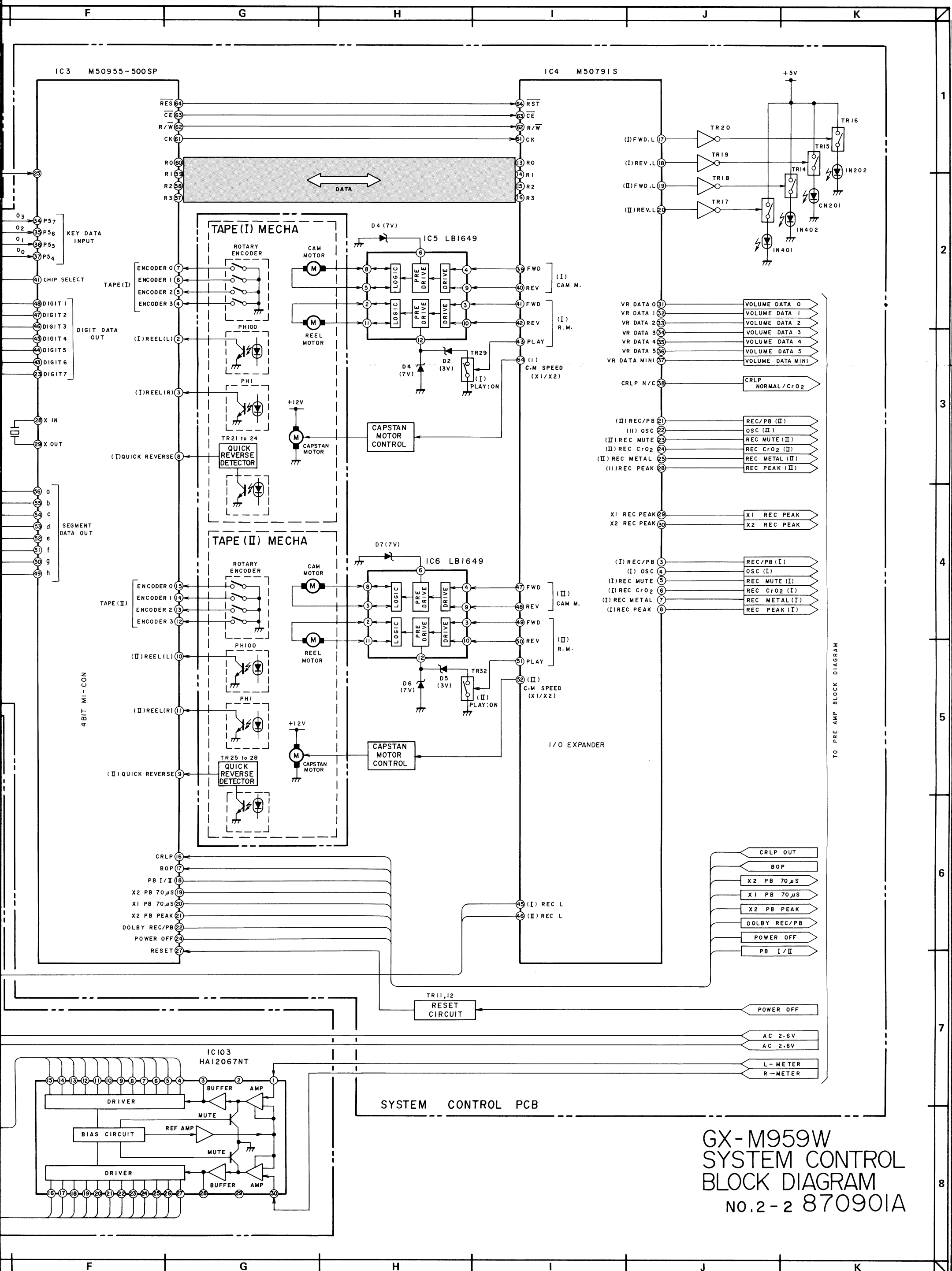
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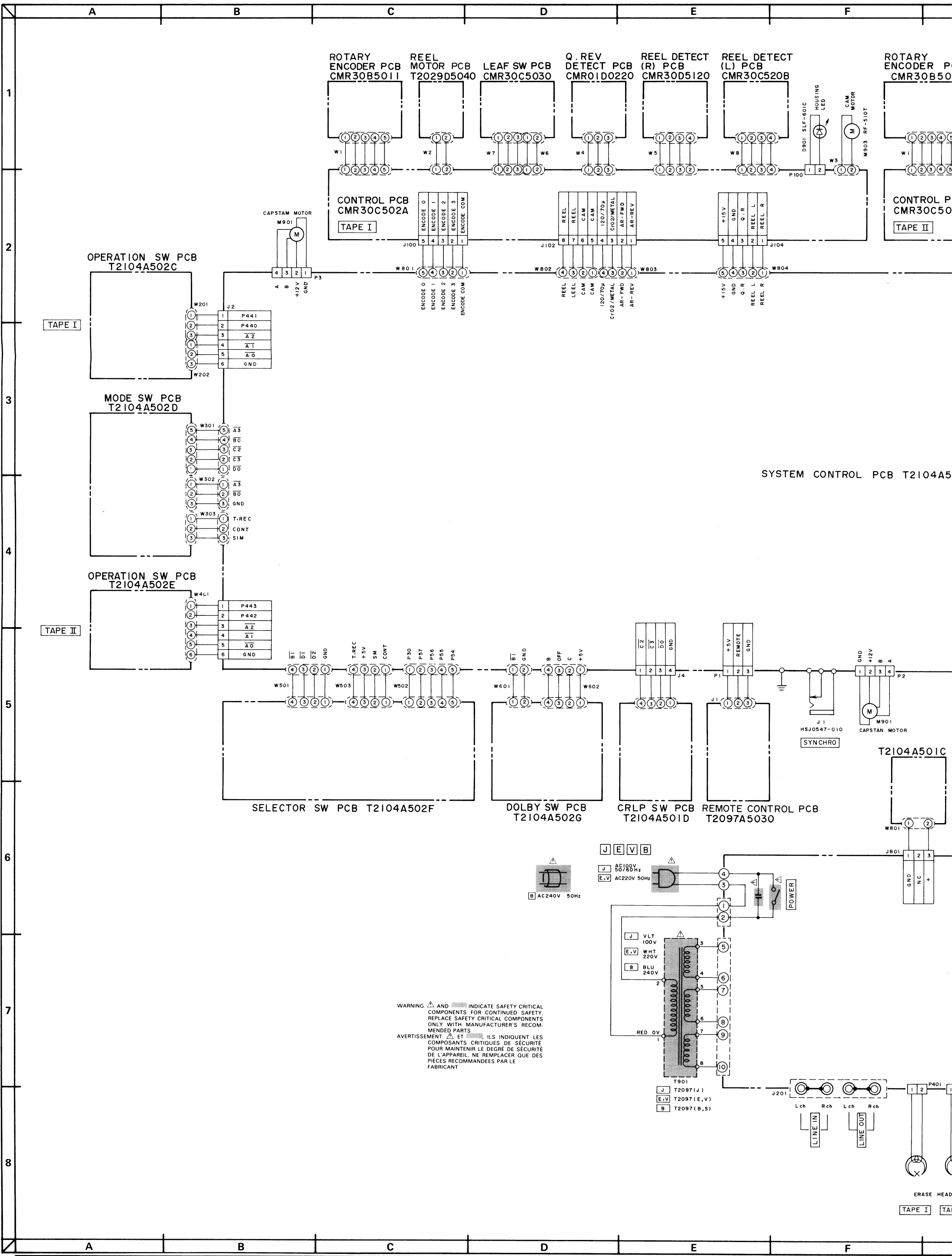
1. BLOCK DIAGRAM.....	3
2. SYSTEM CONTROL BLOCK DIAGRAM.....	4
3. CONNECTION DIAGRAM	5
4. SYSTEM CONTROL SCHEMATIC DIAGRAM.....	6
5. REC EQ PC BOARD, SYSTEM CONTROL PC BOARD AND OTHER PC BOARD	7
6. PRE AMP SCHEMATIC DIAGRAM.....	8
7. PRE AMP PC BOARD, PHONES PC BOARD AND LED PC BOARD	9





GX-M959W AMP
BLOCK DIAGRAM
No. 2-1 870902A

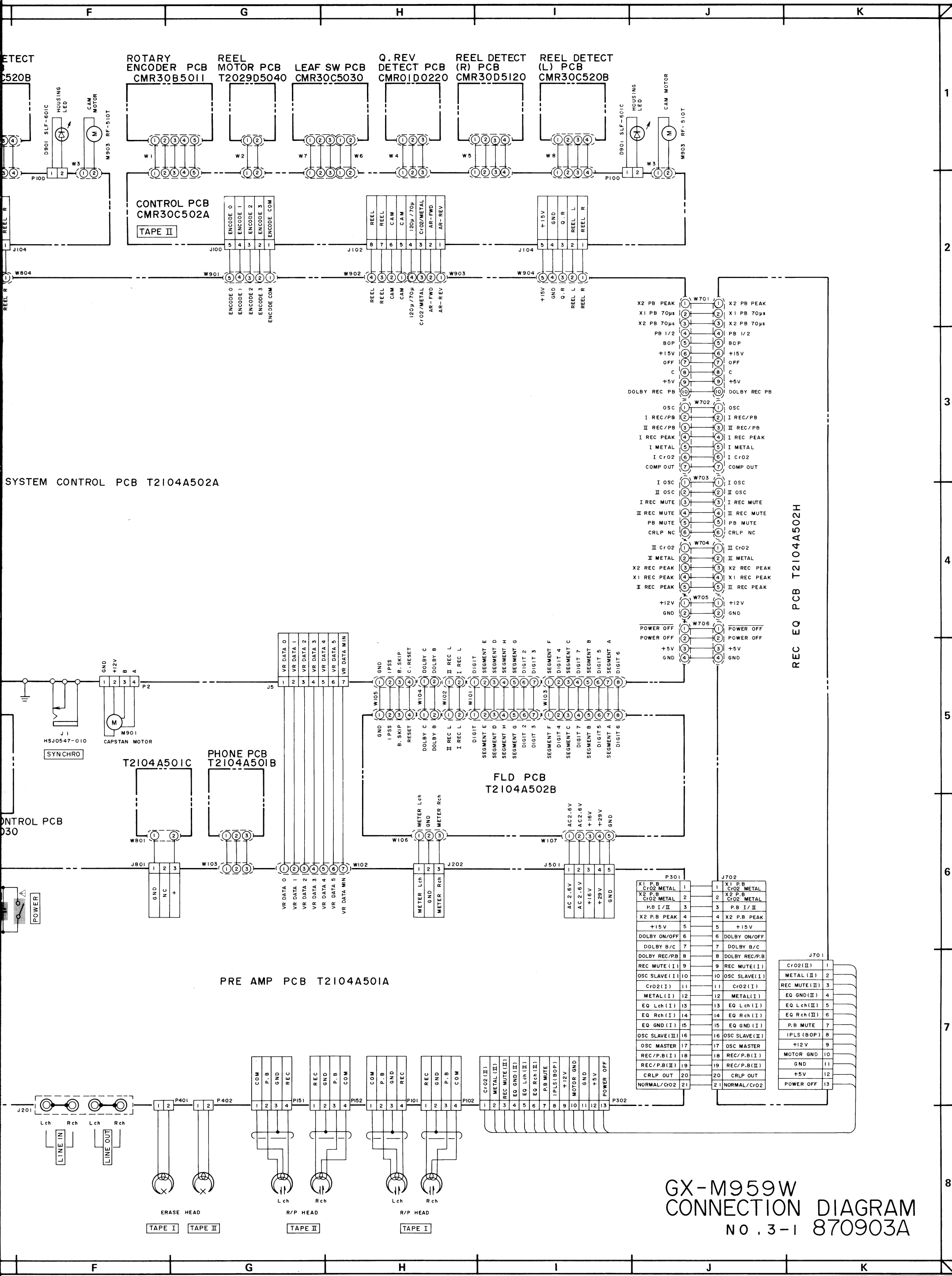




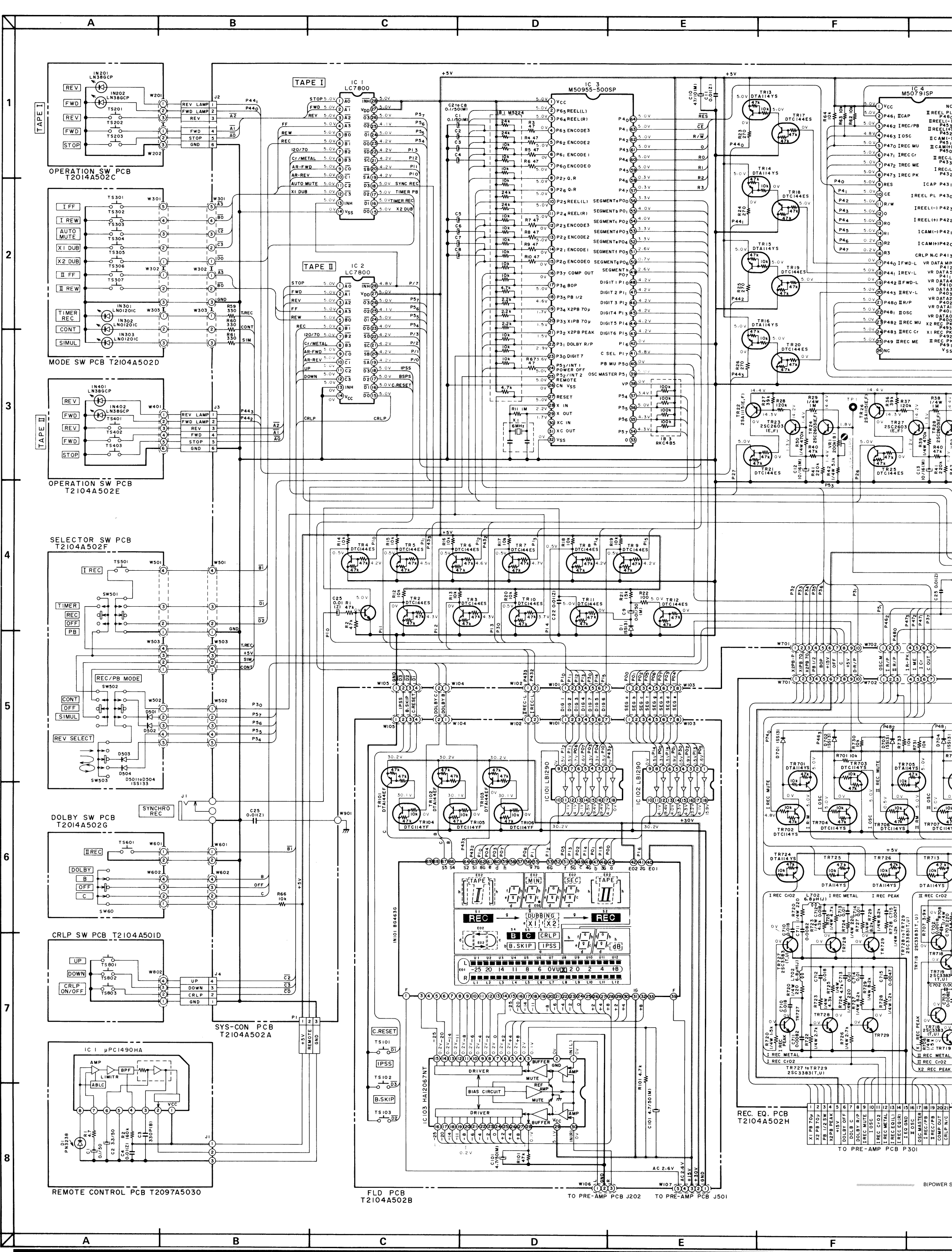
SYSTEM CONTROL PCB T2104A5

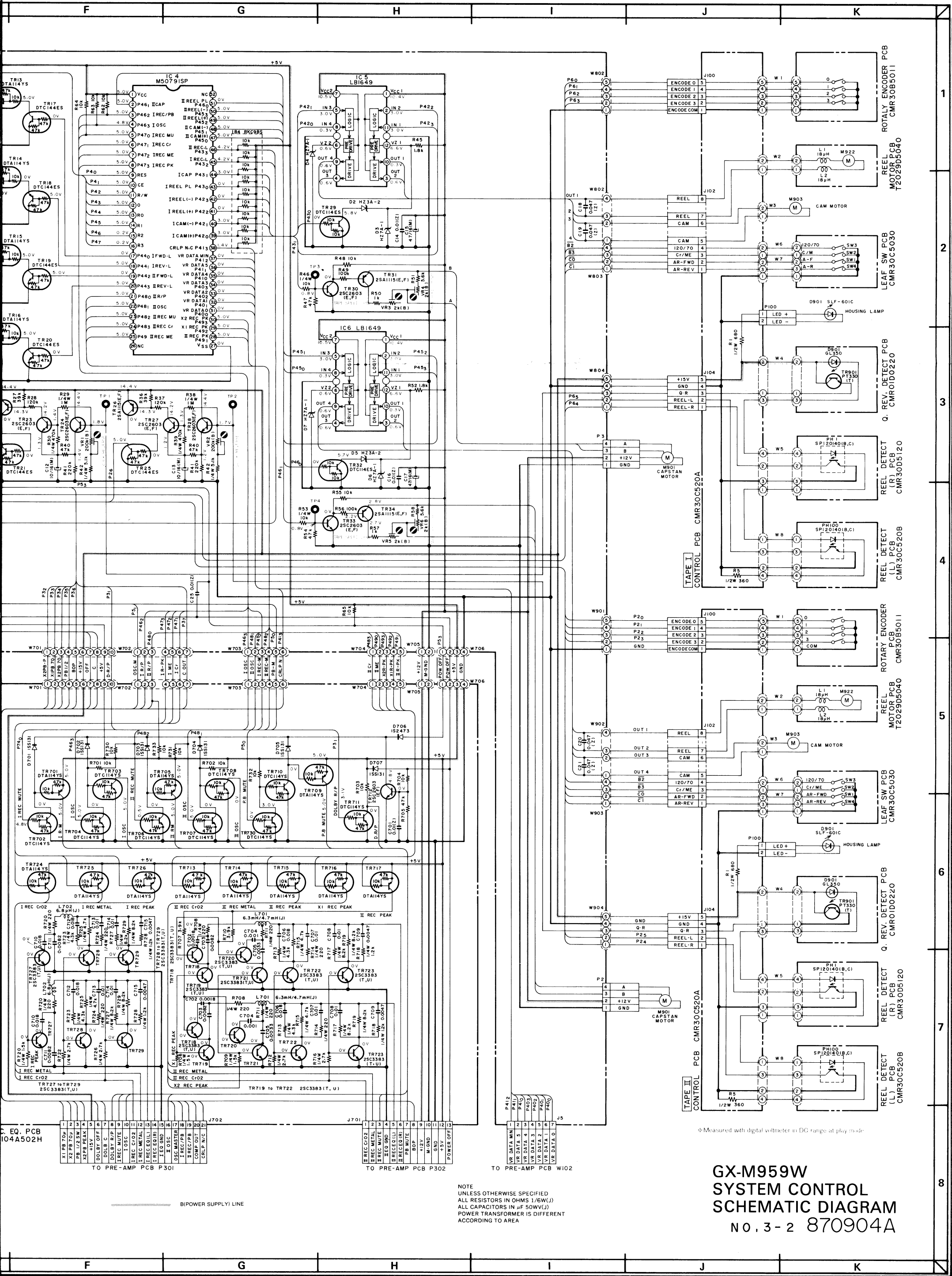
ERASE HEAD

TAPE I TAPE II



GX-M959W
CONNECTION DIAGRAM
NO. 3-1 870903A

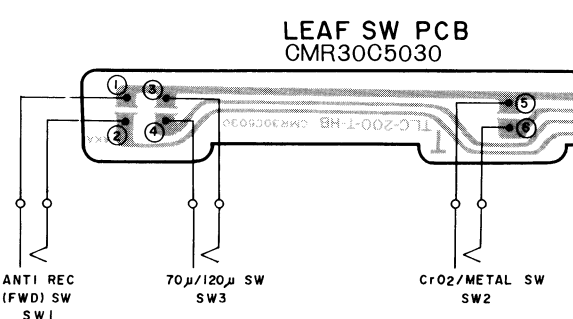
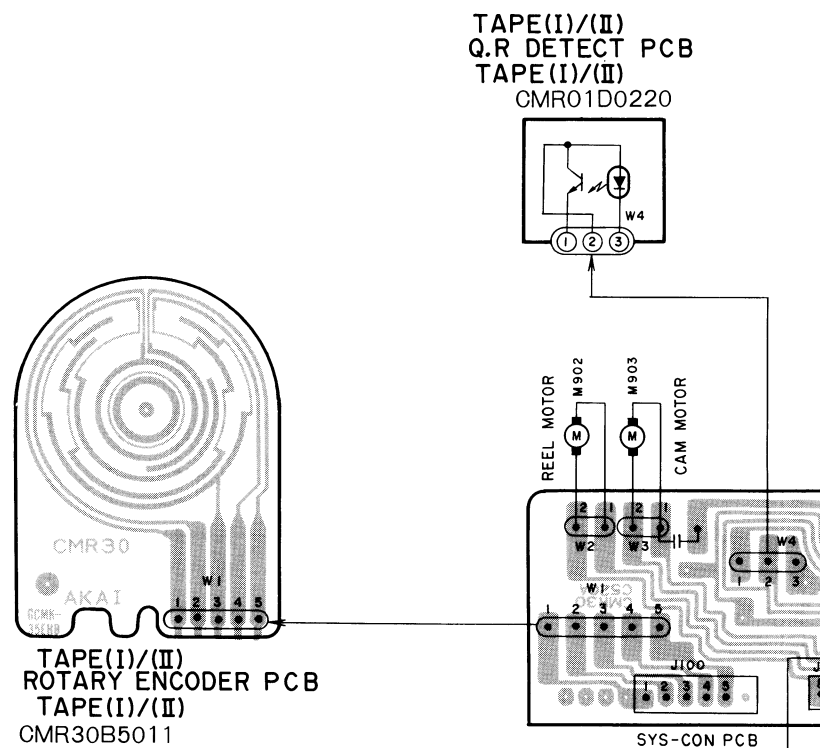
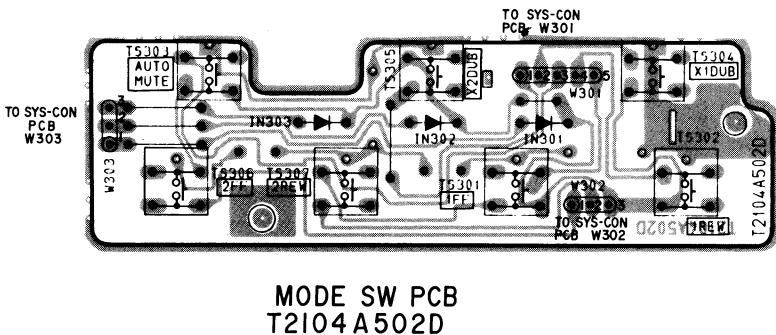
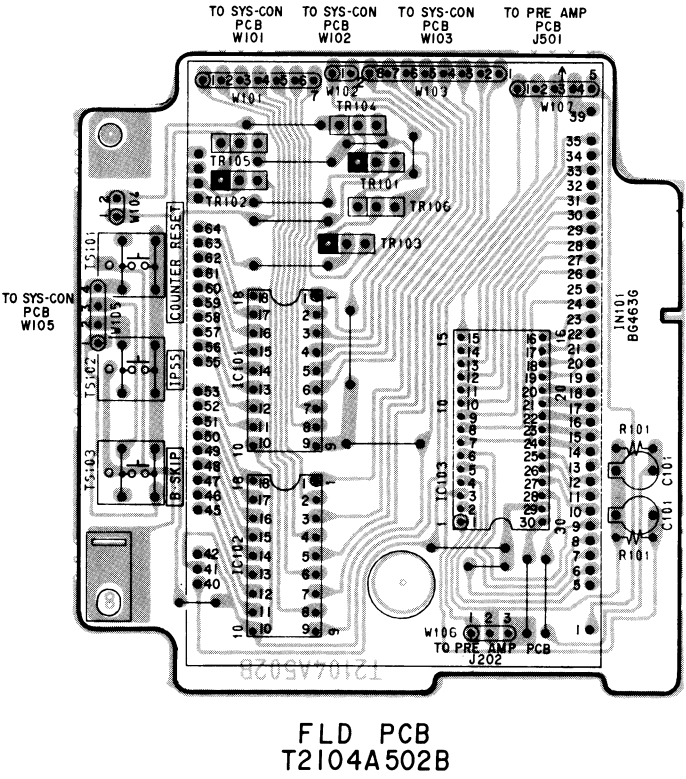
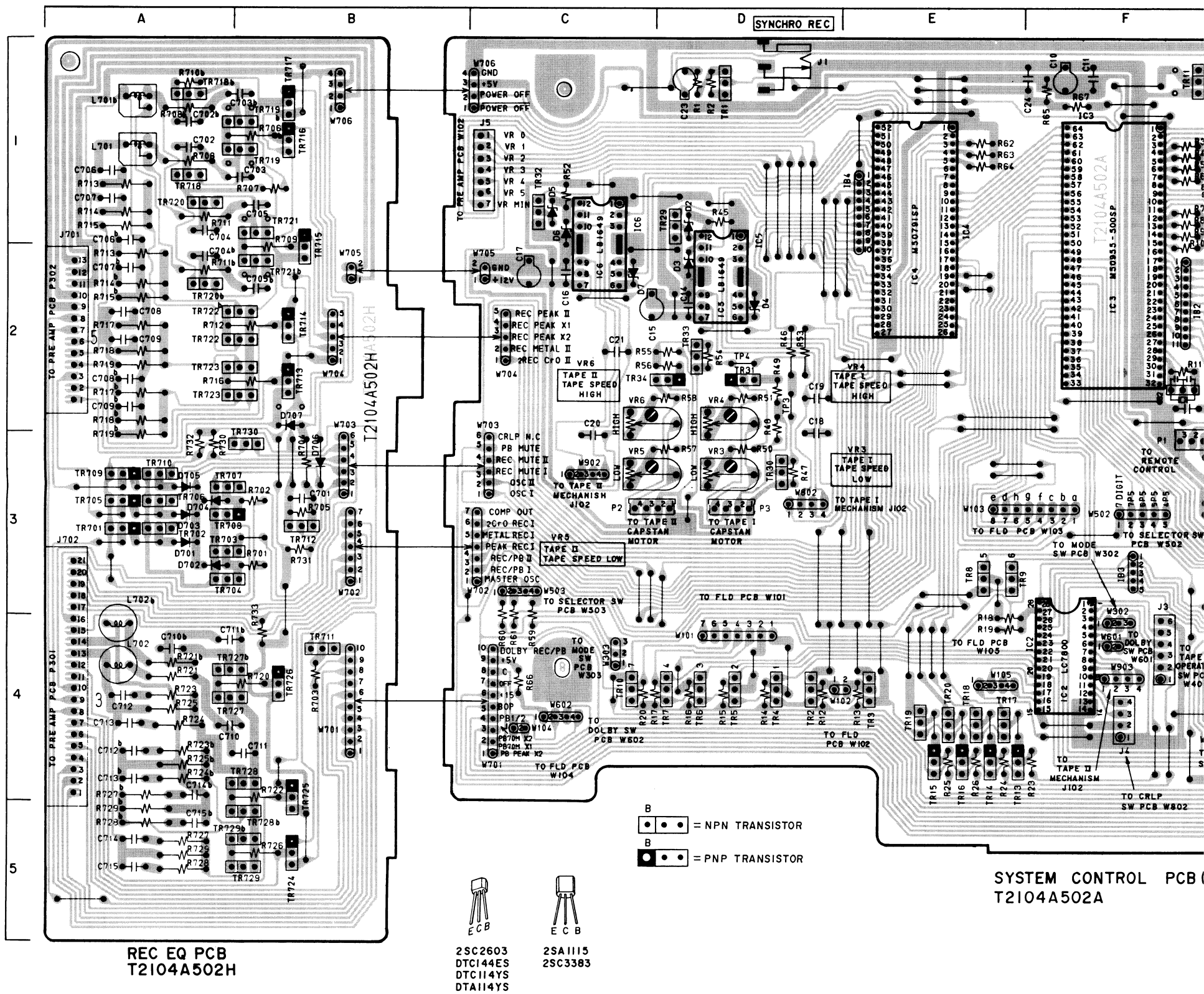


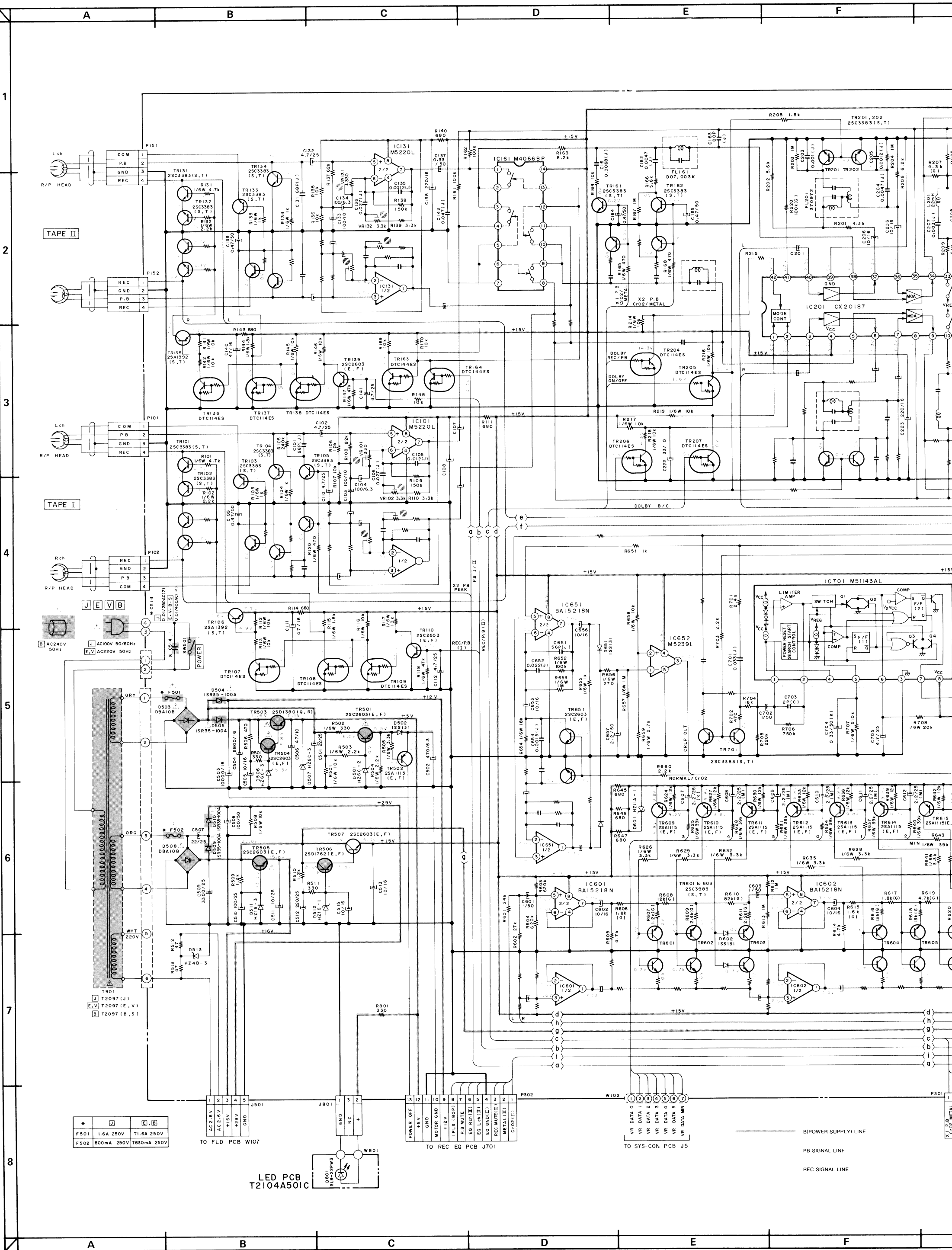


GX-M959W
SYSTEM CONTROL
SCHEMATIC DIAGRAM
No. 3-2 870904A

- TRANSISTOR
- | | | |
|--------|-----|----|
| TR701 | ... | A3 |
| TR702 | ... | A3 |
| TR703 | ... | A3 |
| TR704 | ... | A3 |
| TR705 | ... | A3 |
| TR706 | ... | A3 |
| TR707 | ... | A3 |
| TR708 | ... | A3 |
| TR709 | ... | A3 |
| TR710 | ... | A3 |
| TR711 | ... | B4 |
| TR712 | ... | B4 |
| TR713 | ... | B2 |
| TR714 | ... | B2 |
| TR715 | ... | B1 |
| TR716 | ... | B1 |
| TR717 | ... | B1 |
| TR718 | ... | A1 |
| TR718b | ... | A1 |
| TR719 | ... | B1 |
| TR719b | ... | B1 |
| TR720 | ... | A1 |
| TR720b | ... | B1 |
| TR721 | ... | B1 |
| TR721b | ... | B2 |
| TR722 | ... | B2 |
| TR722b | ... | B2 |
| TR723 | ... | B2 |
| TR723b | ... | B2 |
| TR724 | ... | B5 |
| TR725 | ... | B5 |
| TR726 | ... | B4 |
| TR727 | ... | B4 |
| TR727b | ... | B4 |
| TR728 | ... | B5 |
| TR728b | ... | B5 |
| TR729 | ... | B5 |
| TR729b | ... | B5 |
| TR730 | ... | B3 |

- CONNECTOR
- | | | |
|------|-----|--------|
| J701 | ... | A2 |
| J702 | ... | A3, A4 |
| W701 | ... | B4 |
| W702 | ... | B3 |
| W703 | ... | B3 |
| W704 | ... | B2 |
| W705 | ... | B2 |
| W706 | ... | B1 |





*	J	E, B
F501	1.6A 250V	T1.6A 250V
F502	800mA 250V	T630mA 250V

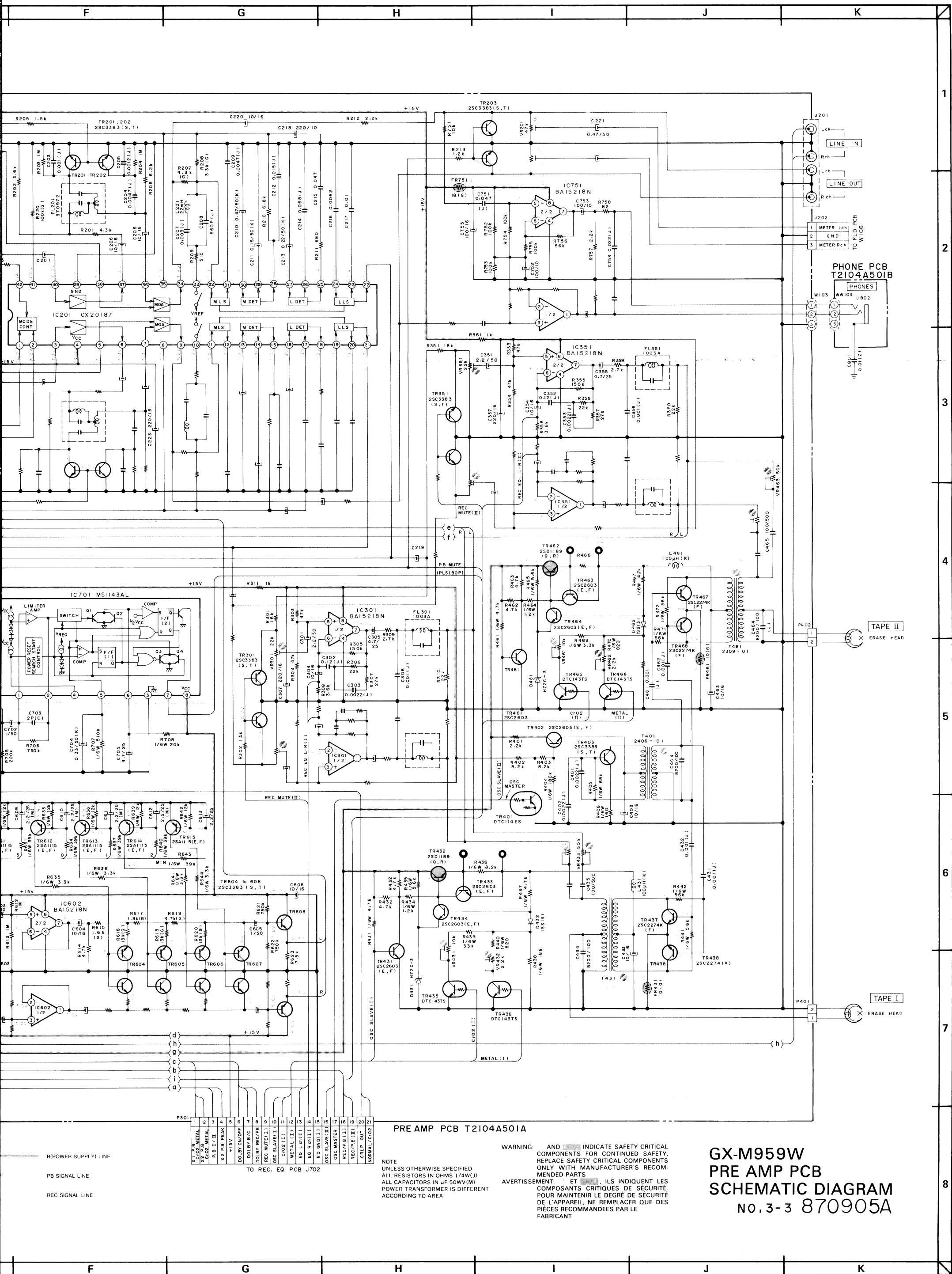
1	2	3	4	5	J501
AC 2.5V	AC 2.5V	+16V	+25V	GND	
TO FLD PCB W107					

1	3	2	J801
GND	NC	+	
TO REC EQ PCB J701			

13	12	11	10	9	8	7	6	5	4	3	2	1
POWER OFF	+5V	GND	MOTOR GND	+12V	I.P.S. (BOP)	P.B. MUTE	EQ RCH(II)	EQ LCH(II)	EQ EN(II)	REC MUTE(II)	METAL(II)	C102(II)
TO REC EQ PCB J701												

LED PCB
T2104A501C

B(Power Supply) LINE
PB SIGNAL LINE
REC SIGNAL LINE



GX-M959W
PRE AMP PCB
SCHEMATIC DIAGRAM
No. 3-3 870905A

