

TC-SD1

SERVICE MANUAL

AEP Model
UK Model
E Model



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Model Name Using Similar Mechanism	TC-PX100
Tape Transport Mechanism Type	TCM-ACLM572

SPECIFICATIONS

Recording system Frequency response

4 track 2 channel stereo
(DOLBY NR COMP)
90 - 15,000 Hz (± 1 dB),
using Sony TYPE I
cassettes
90 - 15,000 Hz (± 3 dB),
using Sony TYPE II
cassettes
90 - 15,000 Hz (± 3 dB),
using Sony TYPE IV
cassettes

Input

TAPE IN (phono jack)

Output

TAPE OUT (phono jack)
TAPE OUT (phono jack)
voltage: 800 mV
impedance: 47 $\times 10^3$ Ω

General

Power requirements

Supplied by unit's internal

Other models: 220 - 250 V AC, 50/60 Hz
220 - 250 V AC, 50/60 Hz

Power consumption

2 W

Dimensions

Approx. 150 $\times$ 91 $\times$ 315
mm (w/h/d)

incl. protruding parts and
controls

Mass

Approx. 0.2 kg

Supplied accessories

Audio cable, wiring cards
(2)
System clock (1)

Design and specifications are subject to change
without notice.

STEREO CASSETTE DECK

SONY®



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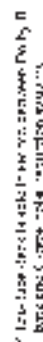
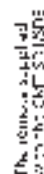
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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

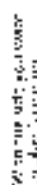
Since the type class is automatically derived, this is a type of `type`.

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"Now, A. J. C. M. ... I say it's very true."



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THE NUMBER OF CRYSTALS TABLE
SUBSTITUTION, γ , AND CRYSTALLINITY
VALUES

To play a tape using the
TMT-501/503 component system
Do the following operations in steps:

- Press **ENTER** until "FILE" appears in the display.
Press **Y** to enter "Y".

This section is extracted from instruction manual.

adhesion (200000 $\pm$ 10000) cells, while the CAT activity was 100% at both time points after infection. See also Table 1, column 2.

- [illegible]

1. **What is the purpose of the `main` function?**
 The `main` function is the entry point of the program. It is where the execution begins.

2. **How do you declare a variable?**
 You declare a variable by specifying its data type followed by the variable name. For example: `int x;`

3. **What is the difference between a variable and a constant?**
 A variable is a storage location whose value can change during the execution of a program. A constant is a storage location whose value cannot change.

4. **How do you write a comment in C?**
 Single-line comments are written using `//`. Multi-line comments are written using `/* */`.

5. **What is the scope of a variable?**
 The scope of a variable is the part of the program where the variable is accessible.

6. **How do you use the `printf` function?**
 The `printf` function is used to print formatted output to the standard output device. It takes a format string and one or more arguments.

7. **What is the difference between `printf` and `fprintf`?**
`printf` prints to the standard output device, while `fprintf` prints to a file.

8. **How do you use the `scanf` function?**
 The `scanf` function is used to read formatted input from the standard input device. It takes a format string and one or more variables to store the input.

9. **What is the difference between `scanf` and `fscanf`?**
`scanf` reads from the standard input device, while `fscanf` reads from a file.

10. **How do you use the `getchar` function?**
 The `getchar` function is used to read a single character from the standard input device.

11. **How do you use the `putchar` function?**
 The `putchar` function is used to write a single character to the standard output device.

12. **What is the difference between `getchar` and `putchar`?**
`getchar` reads a character from the input, while `putchar` writes a character to the output.

13. **How do you use the `gets` function?**
 The `gets` function is used to read a string from the standard input device. (Note: This function is deprecated in C11.)

14. **How do you use the `puts` function?**
 The `puts` function is used to write a string to the standard output device.

15. **What is the difference between `gets` and `puts`?**
`gets` reads a string from the input, while `puts` writes a string to the output. (Note: `gets` is deprecated.)

16. **How do you use the `strcpy` function?**
 The `strcpy` function is used to copy a string from one memory location to another.

17. **What is the difference between `strcpy` and `strncpy`?**
`strcpy` copies the entire string, while `strncpy` copies a specified number of characters.

18. **How do you use the `strlen` function?**
 The `strlen` function is used to find the length of a string.

19. **What is the difference between `strlen` and `sizeof`?**
`strlen` calculates the length of a string, while `sizeof` calculates the size of a variable or data type.

20. **How do you use the `strcmp` function?**
 The `strcmp` function is used to compare two strings.

21. **What is the difference between `strcmp` and `strncmp`?**
`strcmp` compares the entire strings, while `strncmp` compares a specified number of characters.

22. **How do you use the `strcat` function?**
 The `strcat` function is used to concatenate two strings.

23. **What is the difference between `strcat` and `strncat`?**
`strcat` concatenates the entire strings, while `strncat` concatenates a specified number of characters.

24. **How do you use the `strchr` function?**
 The `strchr` function is used to find the first occurrence of a character in a string.

25. **What is the difference between `strchr` and `strrchr`?**
`strchr` finds the first occurrence, while `strrchr` finds the last occurrence.

26. **How do you use the `strstr` function?**
 The `strstr` function is used to find a substring within a string.

27. **What is the difference between `strstr` and `strstr`?**
`strstr` is the standard C function, while `strstr` is a non-standard extension.

28. **How do you use the `strtok` function?**
 The `strtok` function is used to split a string into tokens.

29. **What is the difference between `strtok` and `strtok_r`?**
`strtok` is a non-reentrant function, while `strtok_r` is a reentrant function.

30. **How do you use the `strdup` function?**
 The `strdup` function is used to create a duplicate of a string.

31. **What is the difference between `strdup` and `strdup_r`?**
`strdup` is a non-reentrant function, while `strdup_r` is a reentrant function.

32. **How do you use the `strncpy_s` function?**
 The `strncpy_s` function is used to copy a string safely, ensuring null termination.

33. **What is the difference between `strncpy_s` and `strncpy`?**
`strncpy_s` is a safer version of `strncpy` that ensures the destination is null-terminated.

34. **How do you use the `strnlen` function?**
 The `strnlen` function is used to find the length of a string up to a specified maximum.

35. **What is the difference between `strnlen` and `strlen`?**
`strnlen` limits the search for the null terminator to a specified number of characters.

36. **How do you use the `strxfrm` function?**
 The `strxfrm` function is used to transform a string into a different format.

37. **What is the difference between `strxfrm` and `strxfrm_s`?**
`strxfrm` is a non-standard extension, while `strxfrm_s` is a standard C11 function.

38. **How do you use the `strcoll` function?**
 The `strcoll` function is used to compare two strings using locale-specific collating rules.

39. **What is the difference between `strcoll` and `strcmp`?**
`strcoll` uses locale-specific rules, while `strcmp` uses the standard C rules.

40. **How do you use the `strxfrm_s` function?**
 The `strxfrm_s` function is used to transform a string safely, ensuring null termination and locale-specific rules.

41. **What is the difference between `strxfrm_s` and `strxfrm`?**
`strxfrm_s` is a safer version of `strxfrm` that ensures the destination is null-terminated.

42. **How do you use the `strxfrm_l` function?**
 The `strxfrm_l` function is used to transform a string safely, ensuring null termination and locale-specific rules, and it is reentrant.

43. **What is the difference between `strxfrm_l` and `strxfrm_s`?**
`strxfrm_l` is a reentrant function, while `strxfrm_s` is a non-reentrant function.

44. **How do you use the `strxfrm_s_l` function?**
 The `strxfrm_s_l` function is used to transform a string safely, ensuring null termination and locale-specific rules, and it is reentrant.

45. **What is the difference between `strxfrm_s_l` and `strxfrm_l`?**
`strxfrm_s_l` is a safer version of `strxfrm_l` that ensures the destination is null-terminated.

46. **How do you use the `strxfrm_s_l` function?**
 The `strxfrm_s_l` function is used to transform a string safely, ensuring null termination and locale-specific rules, and it is reentrant.

47. **What is the difference between `strxfrm_s_l` and `strxfrm_s`?**
`strxfrm_s_l` is a reentrant function, while `strxfrm_s` is a non-reentrant function.

48. **How do you use the `strxfrm_s_l` function?**
 The `strxfrm_s_l` function is used to transform a string safely, ensuring null termination and locale-specific rules, and it is reentrant.

49. **What is the difference between `strxfrm_s_l` and `strxfrm_s_l`?**
 There is no difference between `strxfrm_s_l` and `strxfrm_s_l`.

50. **How do you use the `strxfrm_s_l` function?**
 The `strxfrm_s_l` function is used to transform a string safely, ensuring null termination and locale-specific rules, and it is reentrant.

$$\frac{\partial}{\partial t} \left(\frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{\partial \rho}{\partial t}$$

SECRET

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surviving
rock (No. 25) at 50

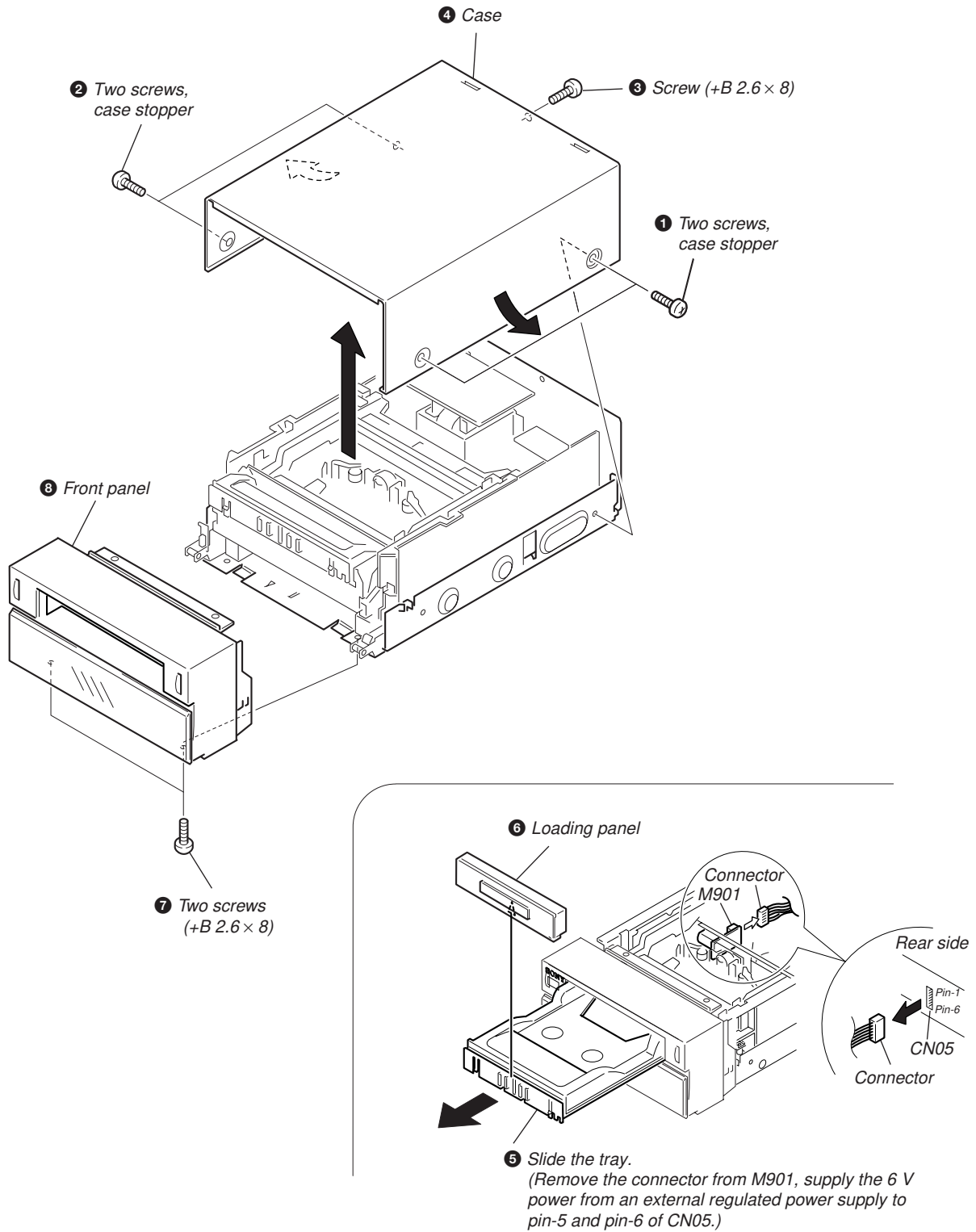
2017年12月
 2017年12月

[illegible][illegible]
$$\{d; c_0 \dots c_{k-1}, q^{\frac{k}{2}} + w\} \cup \{c_k, c_{k+1}, \dots, c_{n-k}\};$$

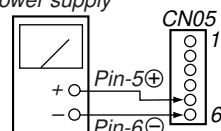
SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

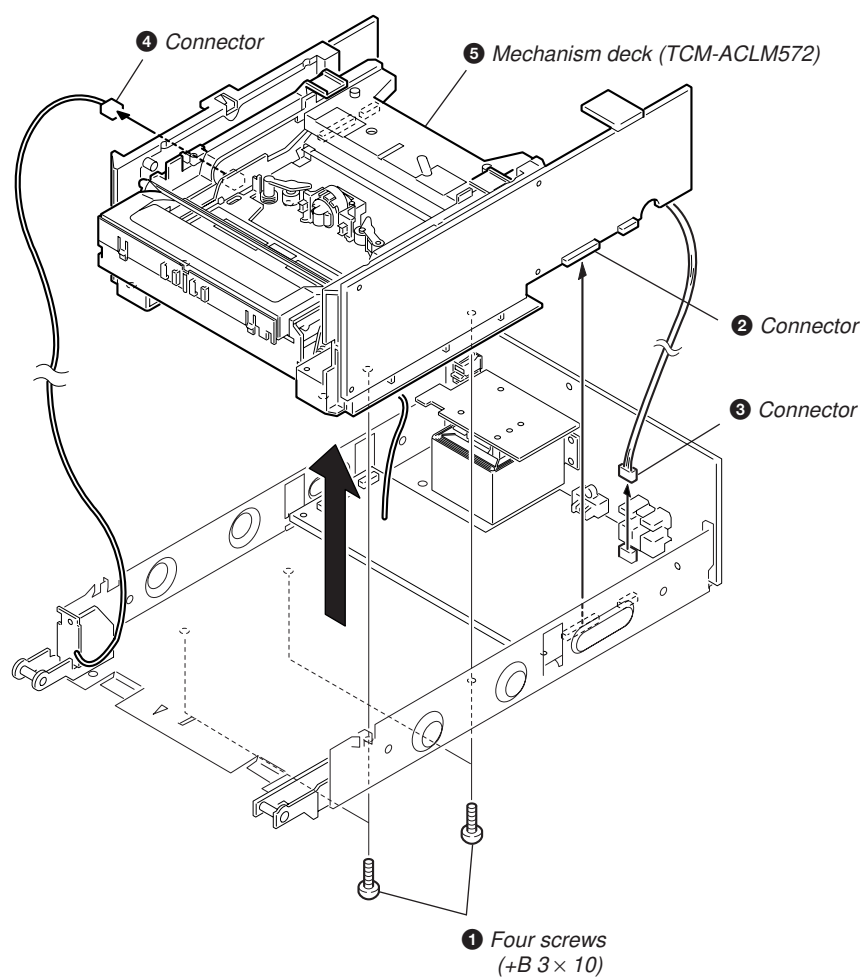
2-1. CASE, FRONT PANEL



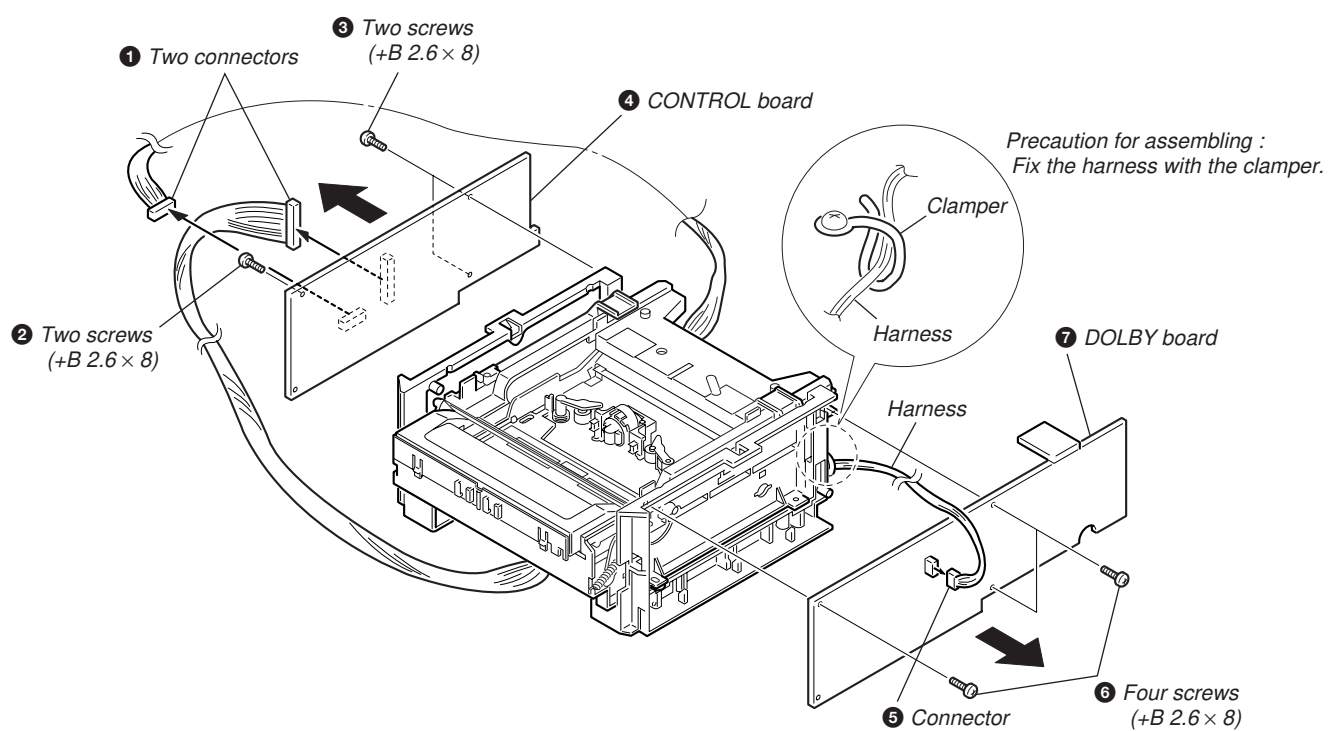
Regulated DC power supply



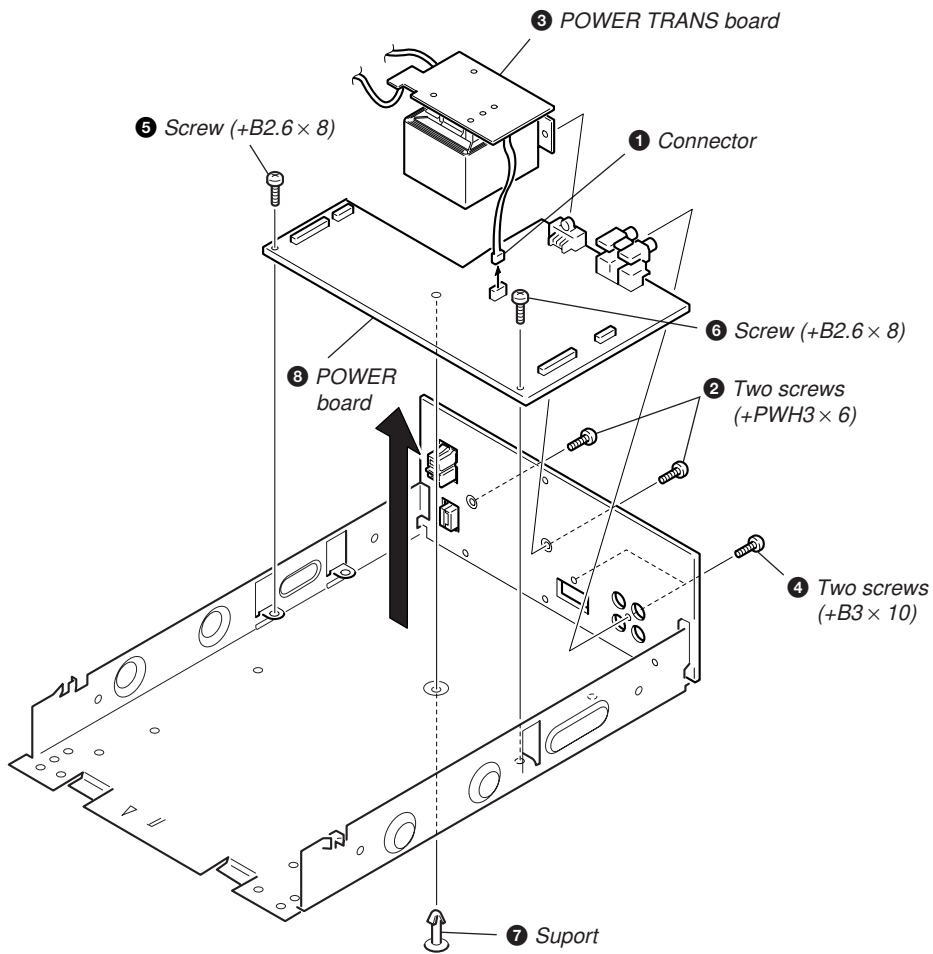
2-2. MECHANISM DECK (TCM-ACLM572)



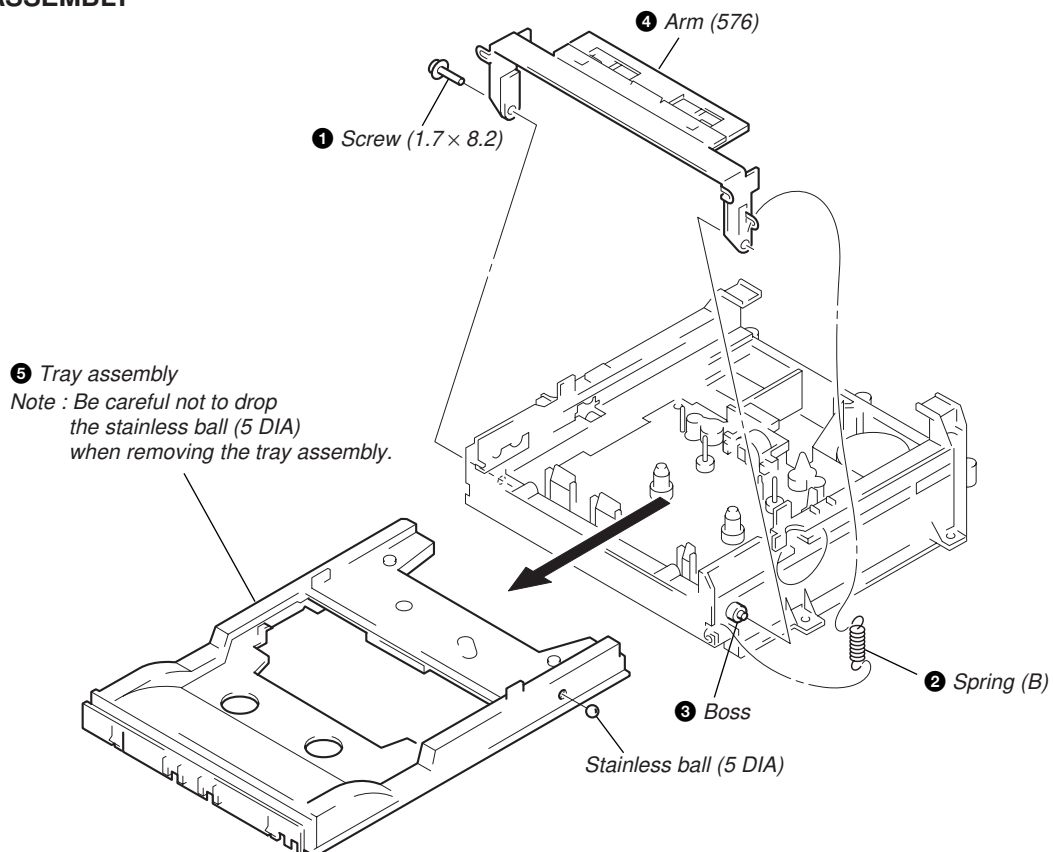
2-3. CONTROL BOARD, DOLBY BOARD



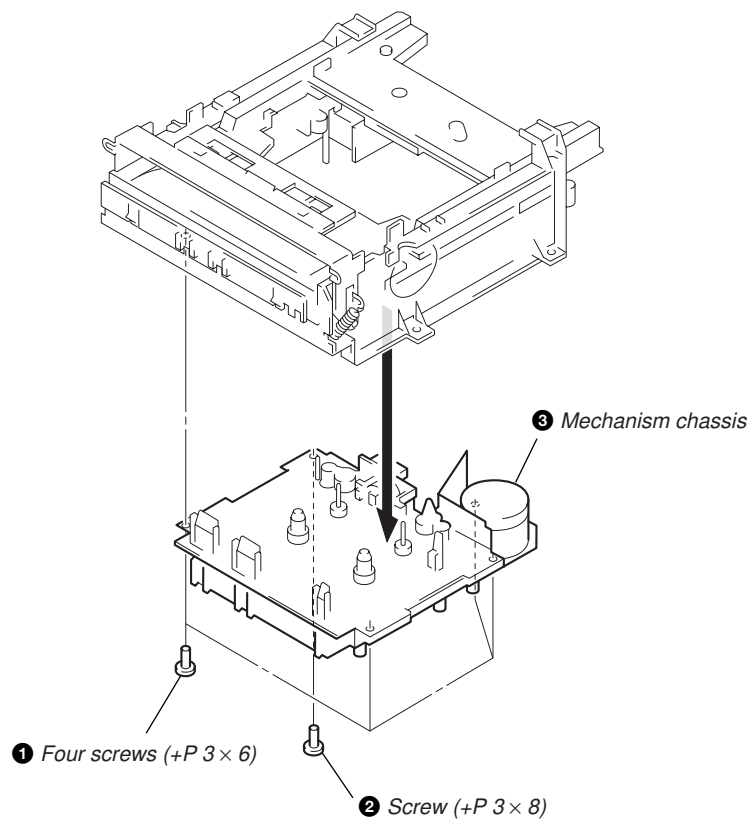
2-4. POWER TRANS BOARD, AC SELECT SW BOARD, POWER BOARD



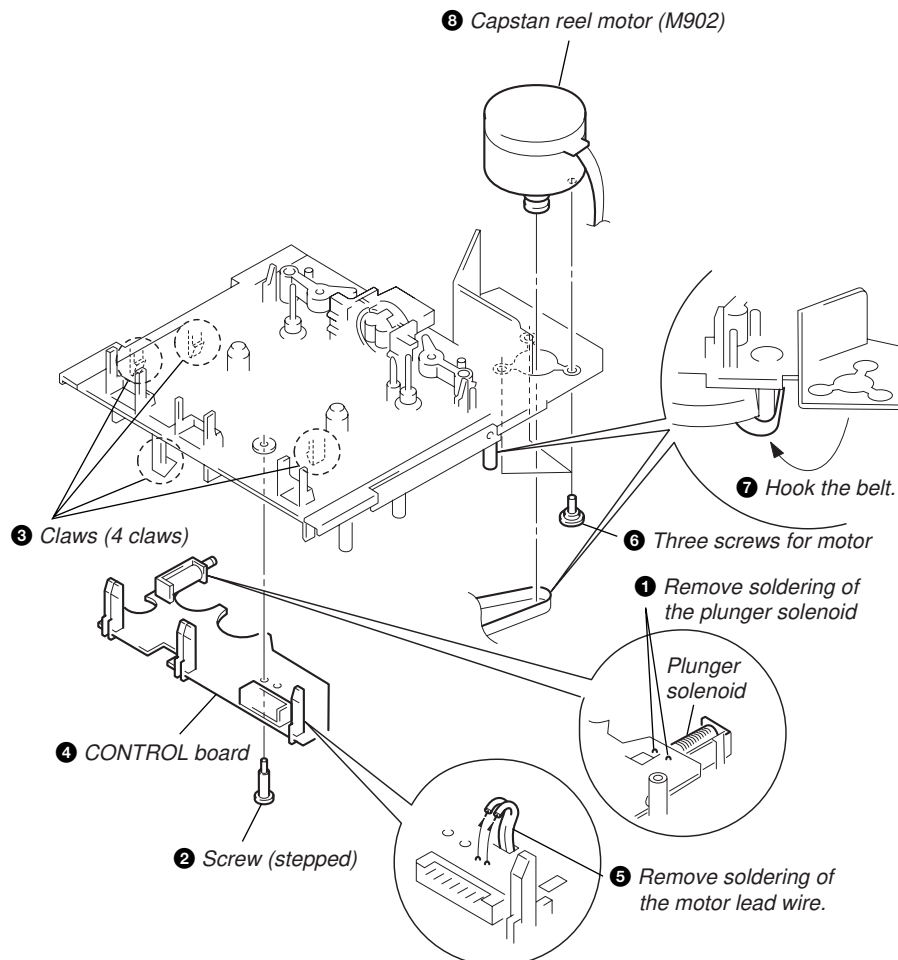
2-5. TRAY ASSEMBLY



2-6. MECHANISM CHASSIS BLOCK

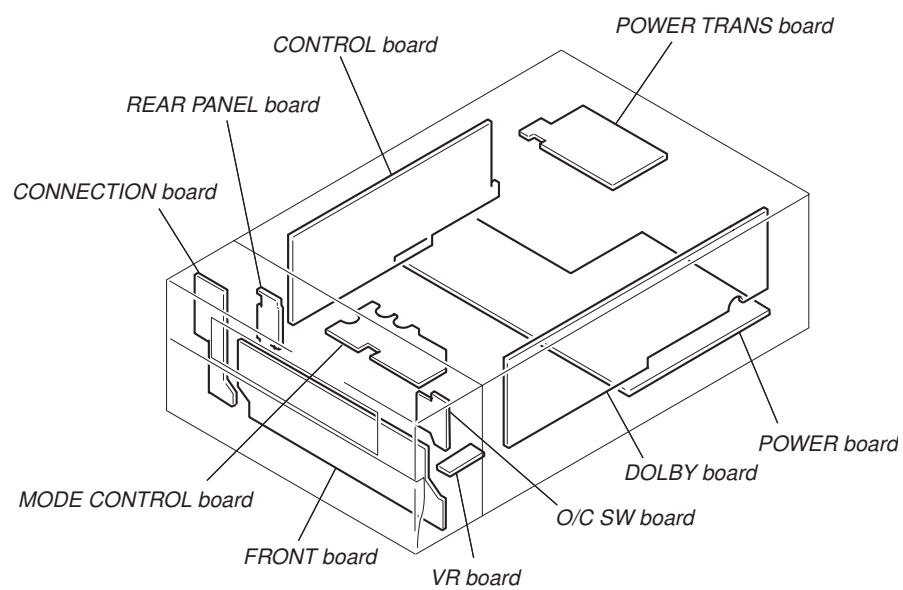


2-7. CAPSTAN REEL MOTOR (M902)

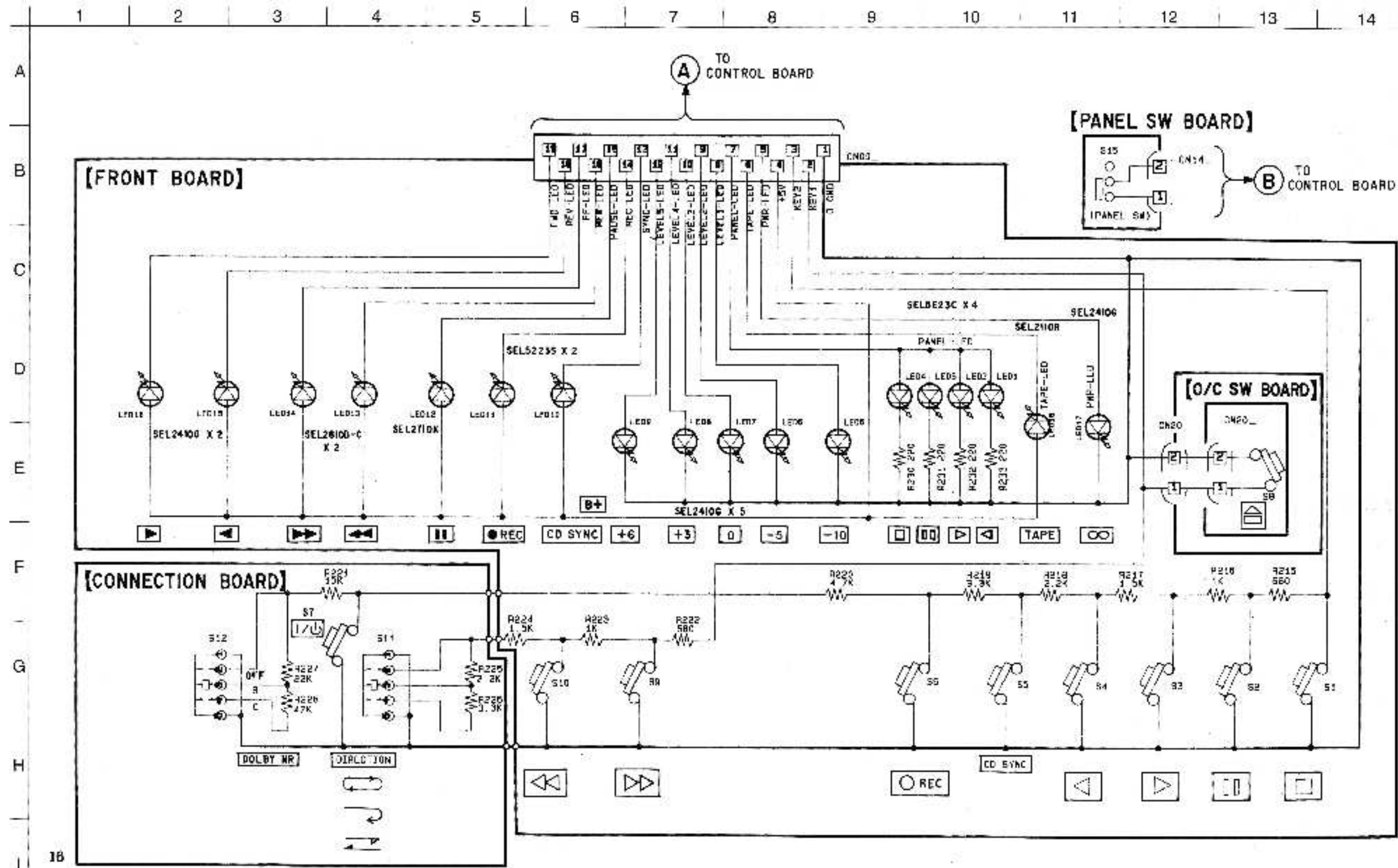


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. SCHEMATIC DIAGRAM — DISPLAY SECTION —



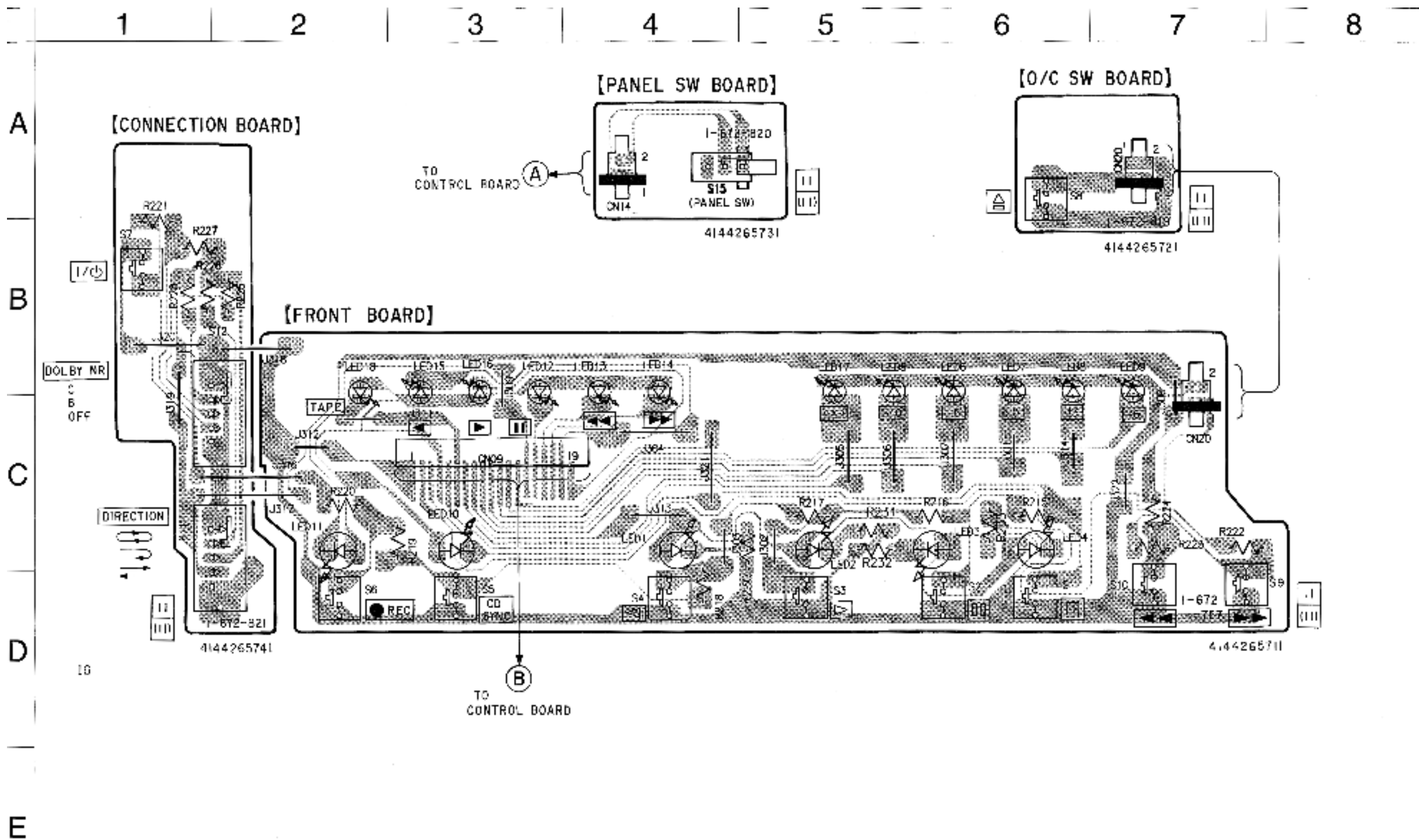
Note on Schematic Diagram:

- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- $\square$: panel designation.
- $\triangle$: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.
- **B+** : B+ Line.

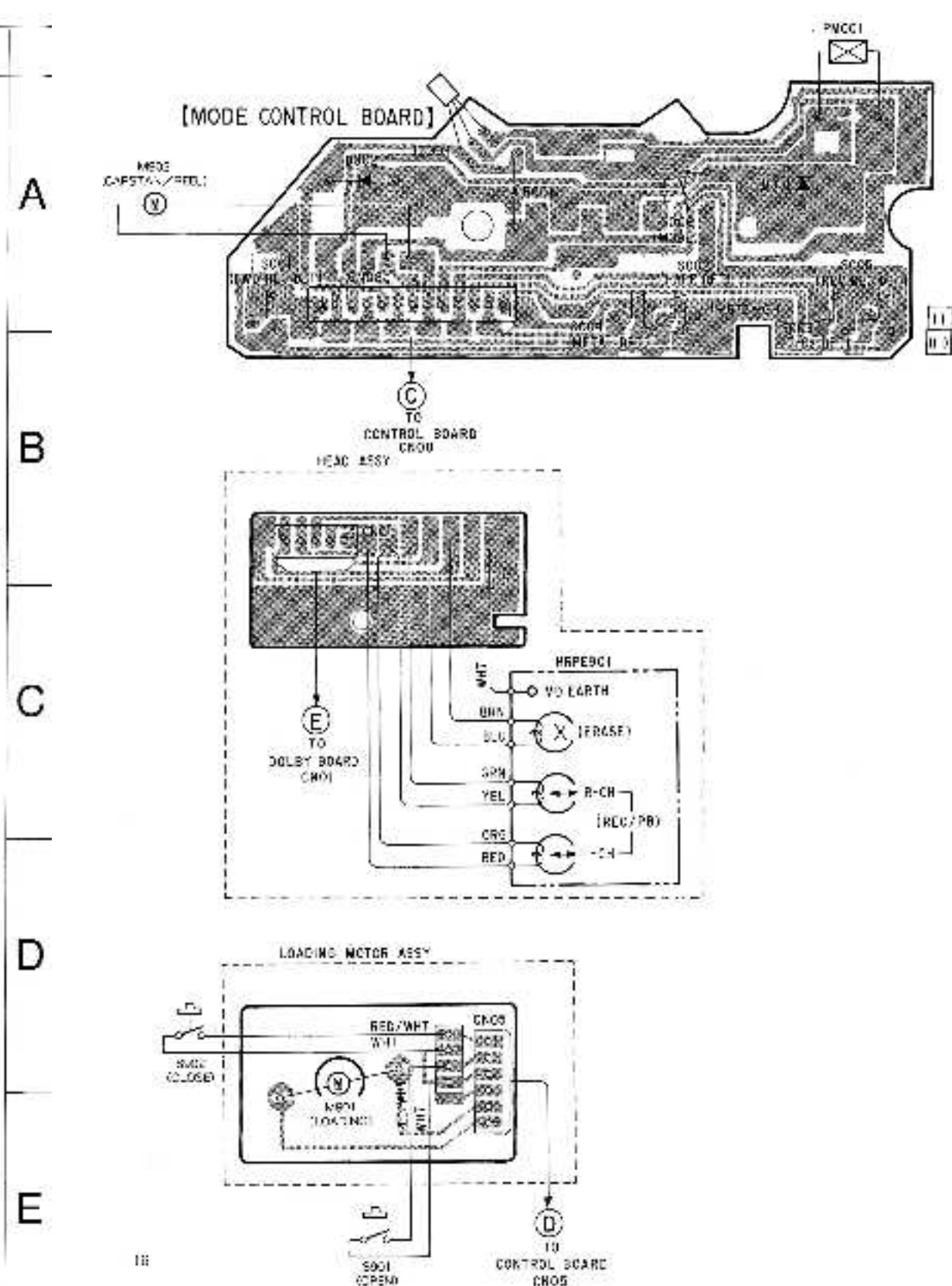
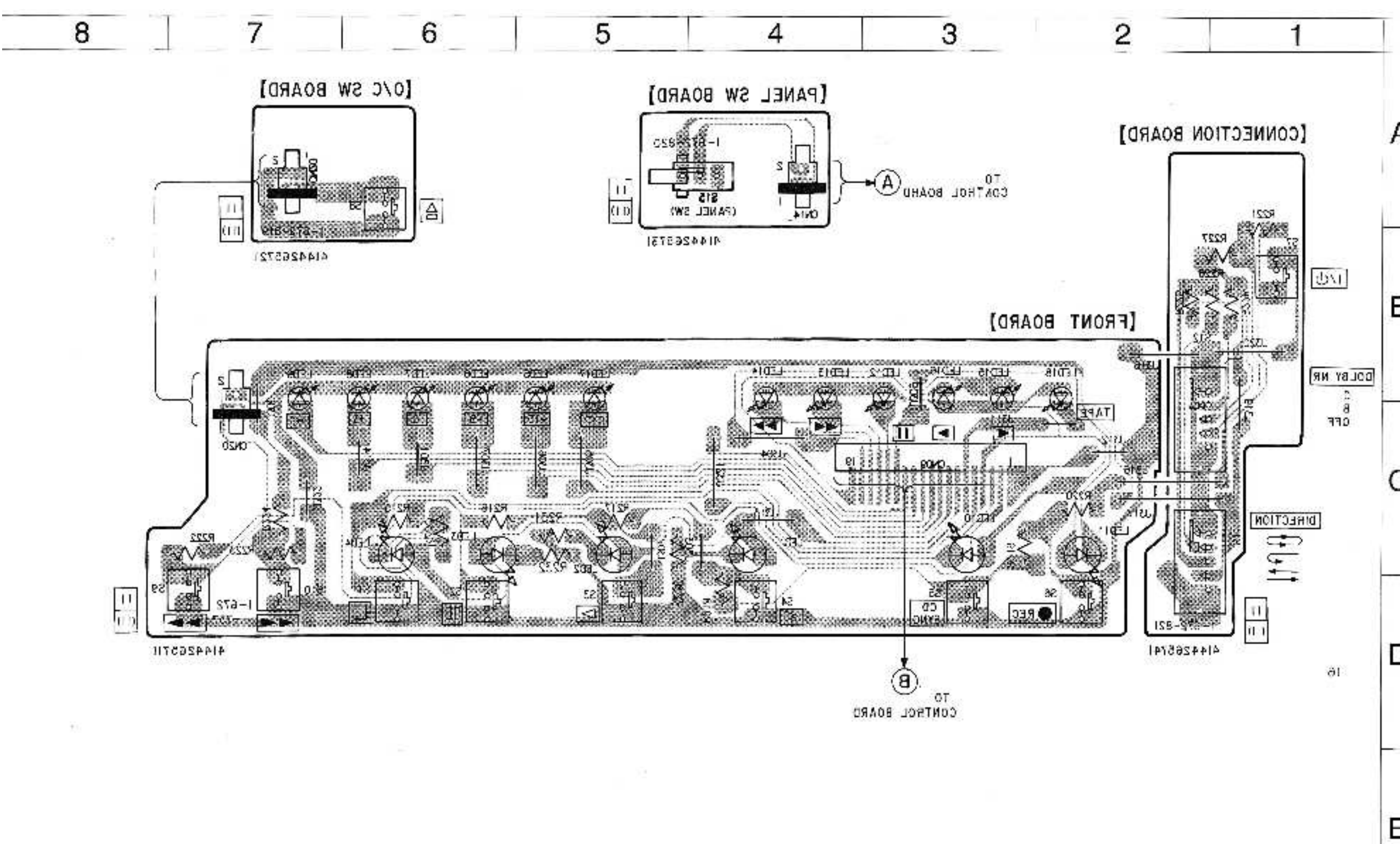
3-3. PRINTED WIRING BOARD — DISPLAY SECTION —

COMPONENT SIDE

- Refer to page 8 for Circuit Boards Location.
- Refer to page 24 for MODE CONTROL board Schematic Diagram



CONDUCTOR SIDE

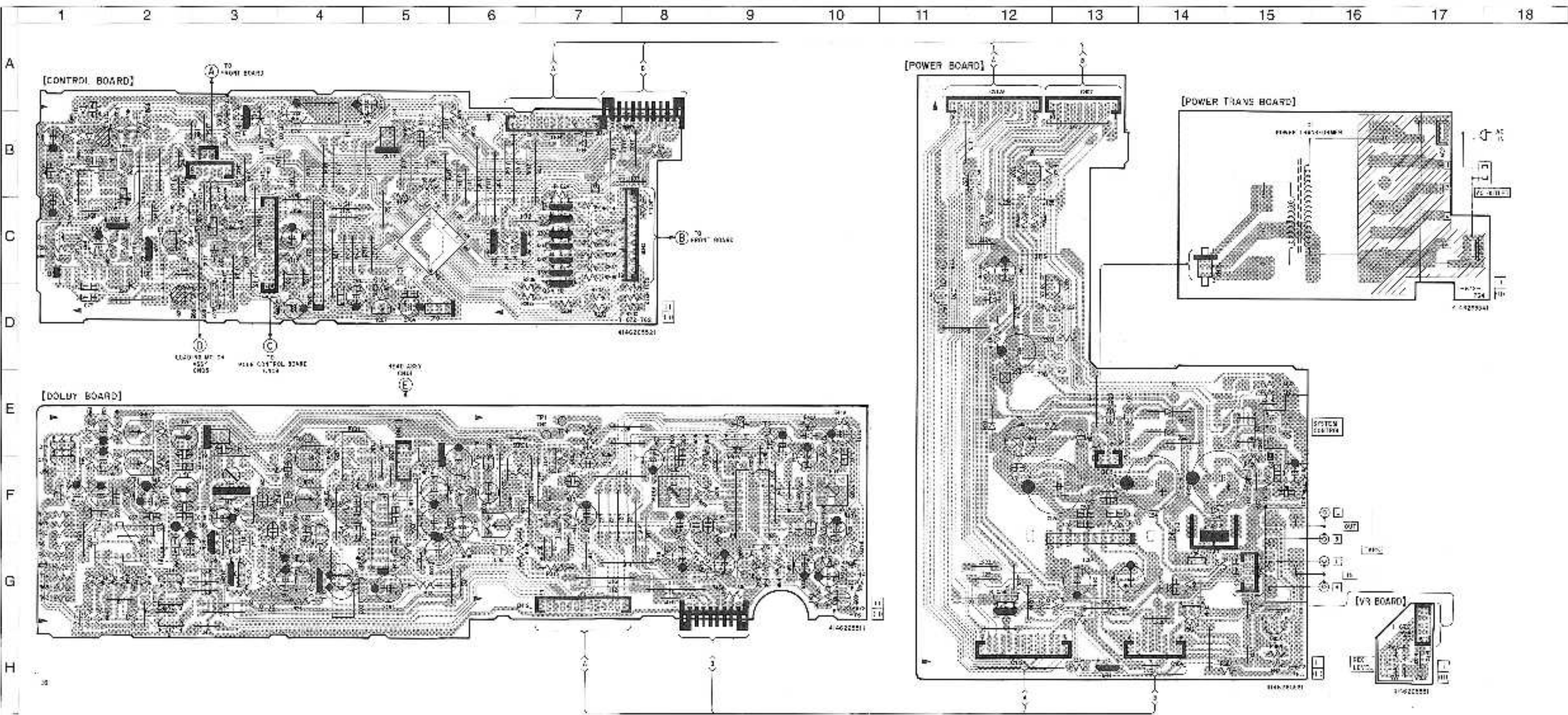


Note on Printed Wiring Board:

- — : parts extracted from the conductor side.
- [Pattern] : Pattern of the rear side.

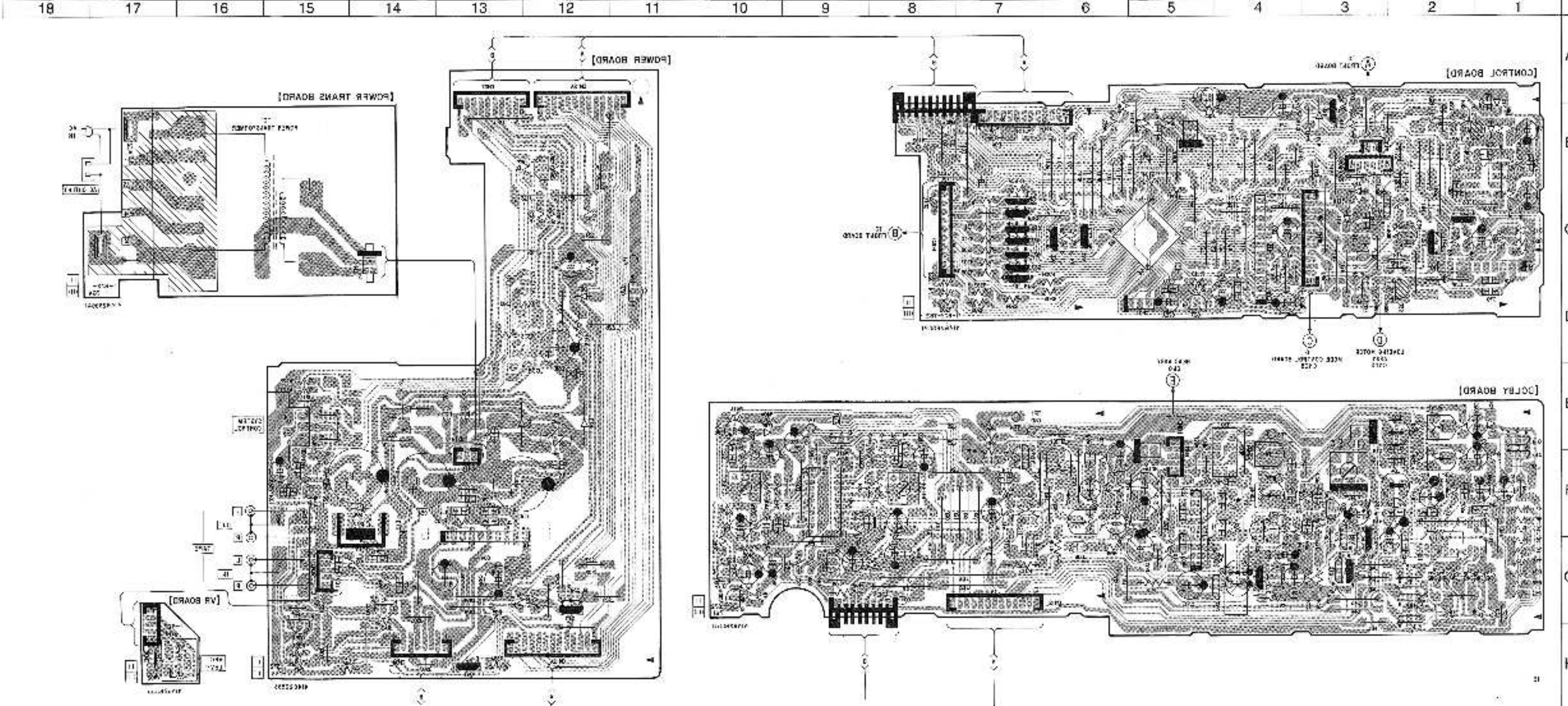
3-4. PRINTED WIRING BOARD — MAIN SECTION —

COMPONENT SIDE • Refer to page 8 for Circuit Boards Location.



Note on Printed Wiring Board:
• : parts extracted from the conductor side.
• : Pattern of the rear side.

CONDUCTOR SIDE



3-5. SCHEMATIC DIAGRAM — MAIN SECTION —

• Refer to page 25 for IC Block Diagrams. • Refer to page 27 for IC Pin Function Description. • Refer to page 15 for MODE CONTROL board Printed Wiring Board.

Semiconductor Location

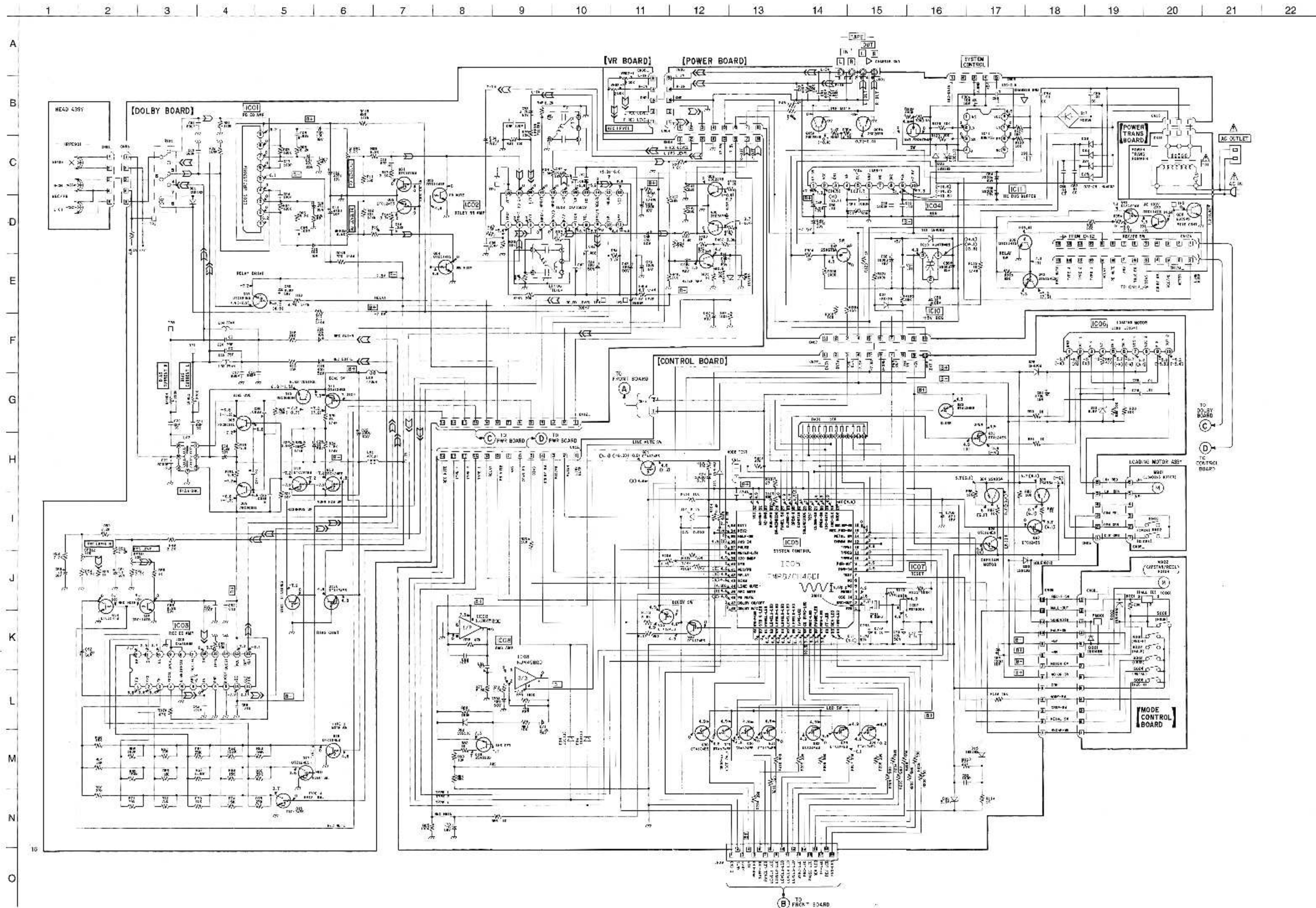
Ref. No.	Location	Ref. No.	Location
D01	F-5	Q06A	G-14
D02	B-1	Q07	G-5
D03	B-7	Q08	G-4
D04	B-7	Q09	F-3
D05	E-9	Q10	G-4
D06	E-10	Q11	G-4
D07	D-12	Q12	G-3
D12	F-14	Q12A	G-3
D13	C-1	Q13	F-3
D14	A-1	Q13A	G-3
D15	C-3	Q14	E-1
D16	B-3	Q15	F-1
D17	E-12	Q16	G-2
D19	B-3	Q17	G-2
D20	C-3	Q18	G-2
D22	E-14	Q19	B-2
D23	E-14	Q20	D-11
D24	E-12	Q21	B-3
D25	E-12	Q22	C-2
D28	D-2	Q23	C-2
D36	F-14	Q24	C-2
D37	F-15	Q25	D-2
		Q26	C-3
IC01	F-5	Q27	D-3
IC02	F-9	Q29	C-7
IC03	F-1	Q30	C-7
IC04	G-13	Q31	C-7
IC05	C-6	Q32	C-7
IC06	C-1	Q33	C-7
IC07	D-5	Q34	D-7
IC08	C-2	Q35	C-6
IC09	G-14	Q36	C-6
IC11	E-15	Q37	B-12
		Q38	C-7
Q01	F-7	Q39	G-12
Q02	G-7	Q40	G-12
Q03	E-9	Q41	H-13
Q04	E-8	Q42	B-12
Q05	G-10	Q43	C-13
Q05A	H-15	Q44	E-14
Q06	G-9	Q45	G-10

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF : 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Panel designation.

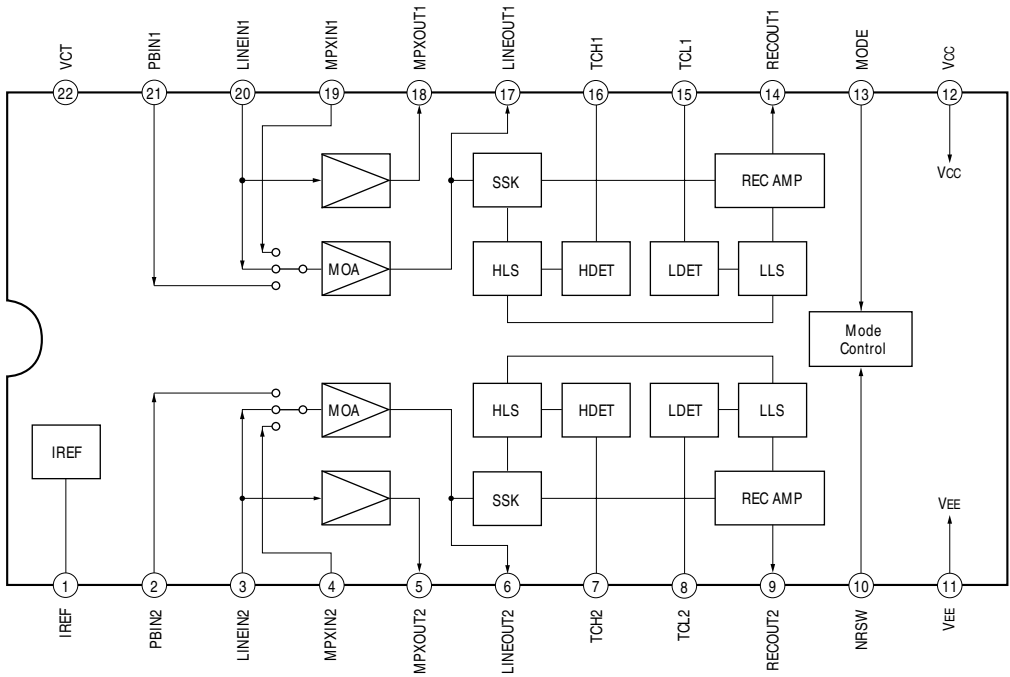
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- $\text{B} +$: B+ Line.
- $\text{B} -$: B- Line.
- B : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: REC/PB
- (): REC
- <): PB
- [): STOP
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- B : PB
- B : REC

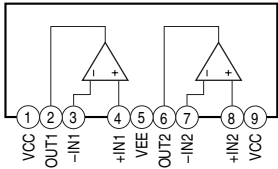


3-6. IC BLOCK DIAGRAMS

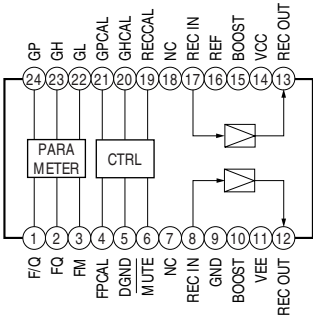
IC02 CXA1561S



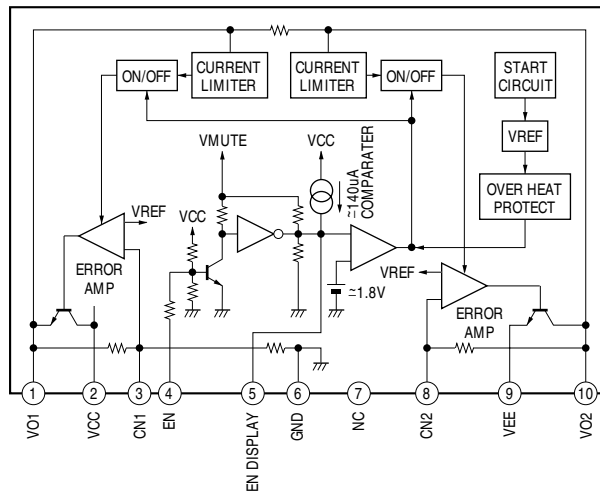
IC01 μ PC4570HA



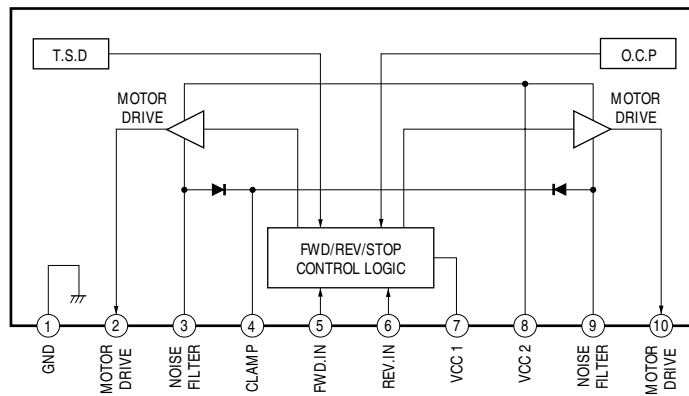
IC03 CXA1598S



IC04 LA5617



IC06 LB1641



3-7. IC PIN FUNCTION DESCRIPTION

• CONTROL BOARD IC05 TMP87CH48DF (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	VSS	—	System ground terminal
2	OSC-OUT	O	System clock output (8 MHz)
3	OSC-IN	I	System clock input (8 MHz)
4	RESET	I	Reset input
5	NC	—	No used
6	NC	—	No used
7	TEST	I	Test terminal
8	POWER-IN	I	Primary power supply ON/OFF input
9	POWER-OUT	O	Mechanism, AU power supply ON/OFF output
10	TYPE4	O	Type 4 recording bias selector output
11	TYPE2	O	Type 2 recording bias selector output
12	TYPE1	O	Type 1 recording bias selector output
13	CHROM-SW	I	Tape type 2 input
14	METAL-SW	I	Tape type 4 input
15	REC.FWD-SW	I	Record safety tab input of side A
16	REC.REW-SW	I	Record safety tab input of side A
17	MODE-SW	I	Head sensor input
18	I2C-CLOCK	I/O	I2C clock input/output
19	I2C-DATA	I/O	I2C data input/output
20	OPEN-SW	I	Loader open switch input
21	CLOSE-SW	I	Loader close switch input
22	TEST	I	TEST input
23	SOLENOIDE	O	Solenoid output
24	CAPSTAN	O	Capstan motor output
25	OPEN-M	O	Loader open (motor) output
26	CLOSE-M	O	Loader close (motor) output
27	PANEL-SW	I	Panel switch input
28	OP-VERSION	I	Option TC version input
29	NC	—	No used
30	AD-GND	—	AD ground terminal
31	AD-REF	—	AD reference voltage
32	VCC	—	System power input
33	KEY1	I	Key 1 input
34	KEY2	I	Key 2 input
35	HALF-SW	I	Half switch input
36	AMS-IN	I	AMS input
37	PULSE	I	Pulse input
38	METER-L/R	I	Meter L-CH input
39	I2C-BUSY	I/O	I2C BUSY input/output
40	SYS	—	No used
41	REC/PB	O	REC/PB selector output
42	RELAY	O	RELAY selector output
43	BIAS	O	Bias selector output
44	LINE MUTE	O	LINE mute selector output
45	REC MUTE	O	Record mute selector output

Pin No.	Pin Name	I/O	Description
46	PB MUTE	O	Playback mute selector output
47	DOLBY ON/OFF	O	Dolby ON/OFF output
48	DOLBY B/C	O	Dolby B/C output
49	STB-R-LED	O	No used
50	STB-G-LED	O	Power ON LED (green) output
51	PANEL-LED	O	Panel LED (blue) output
52	LEBEL1-LED	O	Level meter 1 (minimum dB) LED (green) output
53	LEVEL2-LED	O	Level meter 2 LED (green) output
54	LEVEL3-LED	O	Level meter 3 LED (green) output
55	LEVEL4-LED	O	Level meter 4 LED (red) output
56	LEVEL5-LED	O	Level meter 5 (maximum dB) LED (red) output
57	TAPE-LED	O	Tape indicator LED (amber) output
58	CDSYNC-LED	O	CD synchro LED (red) output
59	REC-LED	O	REC LED (red) output
60	PAUSE-LED	O	PAUSE LED (orange) output
61	REW-LED	O	REW LED (amber) output
62	FF-LED	O	FF LED (amber) output
63	REV-LED	O	REV LED (green) output
64	FWD-LED	O	FWD LED (green) output

SECTION 4 MECHANICAL ADJUSTMENT

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
 record/playback heads pinch rollers
 erase head rubber belts
 capstan idlers
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 61 g • cm
FWD back tension		2 to 6 g • cm
REV	CQ-102RC	36 to 61 g • cm
REV back tension		2 to 6 g • cm
FF/REW	CQ-201B	61 to 143 g • cm

• Tape Tension

FWD tension	CQ-403A	100 g or more
REV tension	CQ-403R	100 g or more

SECTION 5 ELECTRICAL ADJUSTMENT

Precaution

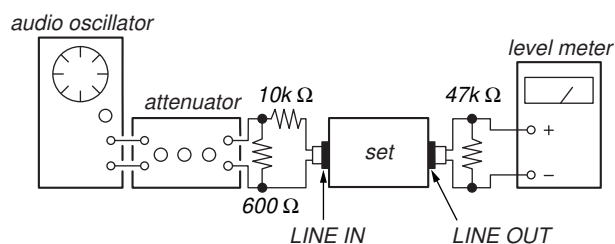
1. Perform adjusting on the test mode.
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjust.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
7. The adjustments should be performed for both L-CH and R-CH.
8. Switches should be set as follows.

DOLBY NR OFF
 DIRECTION ⇄

• Standard Recording Position

Adjust the REC LEVEL (VR02) control so that the standard input/output signal level is obtained in the following connection.

— Record Mode —



Standard Input Level

Input terminal	LINE IN
source impedance	10kΩ
input signal level	0.5V (−3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47kW
output signal level	0.5V (−3.8dB)

0dB = 0.775 V

Test Mode

Turn OFF the main power and insert the shorting plug to the test point CN13 (2P) on the CONTROL board (setting IC05 pin 22 to “L”). Then turn ON the main power which activate the TEST mode. All displays flash once.

If a recording is performed in the TEST mode, the REC MEMORY mode becomes active at the moment of recording so that the tape is rewound by the amount of recording when a tape is rewound after recording.

After adjustment, be sure to remove the shorting plug from the test point CN13 (2P).

Test Tape

Type	Signal	Used for
P-4-A100	10 kHz, −10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	PB Level Adjustment

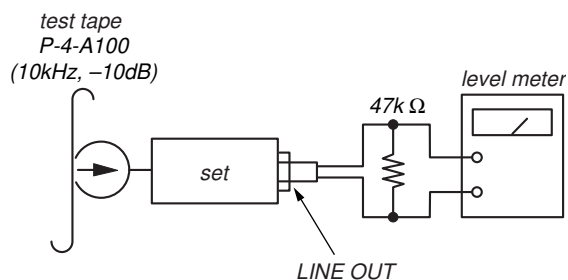
Record/Playback Head Azimuth Adjustment

Note: • Perform this adjustment after the head is turned around.
(If the head is positioned in the FWD direction, turn around the head and start adjustment from the REV mode as described below.)

* When the azimuth adjustment is performed, the azimuth adjustment screw must end up with rotation of tightening direction (i.e. clockwise direction).

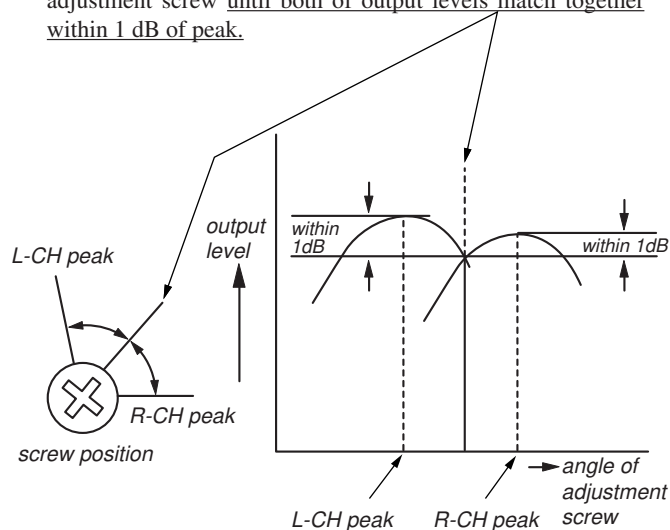
Adjustment procedure :

1. Mode: REV playback



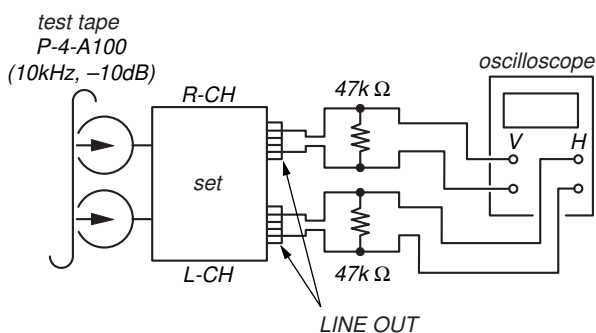
2. Turn the azimuth adjustment screw for the maximum output level of L-CH and R-CH.

If the peak levels do not match for L-CH and R-CH, turn the adjustment screw until both of output levels match together within 1 dB of peak.

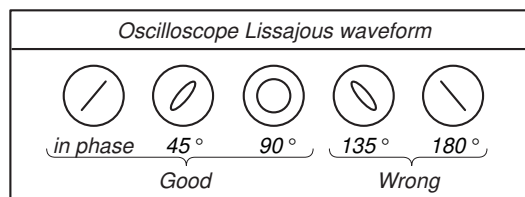


3. Phase Check

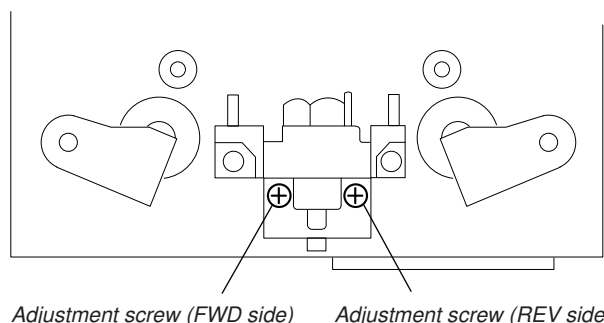
Mode: REV playback



4. Enter the FWD mode and perform steps 1 to 3.
5. Check that the phase difference between L-CH and R-CH is in the range of in-phase to 90°.
6. After adjustment, lock the screw with locking compound.



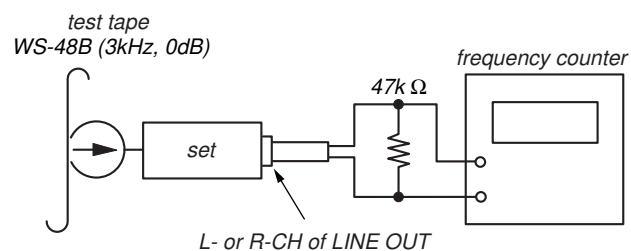
Adjustment Location:



Tape Speed Adjustment

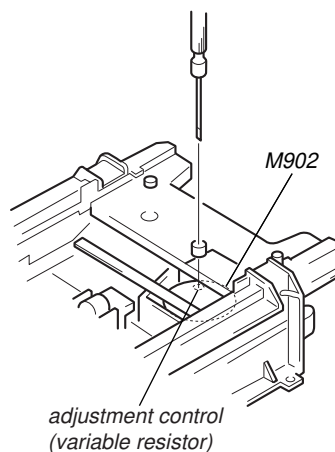
Procedure :

Mode : FWD playback



1. Enter the FWD playback mode, and play back test tape.
2. Adjust the adjustment control (variable resistor) of the motor (M902) until the frequency counter reading becomes 3,000 Hz $\pm$ 90 Hz.
3. Confirm that the tape speed deviation between tape top and tape end is within 3%.

Adjustment location :



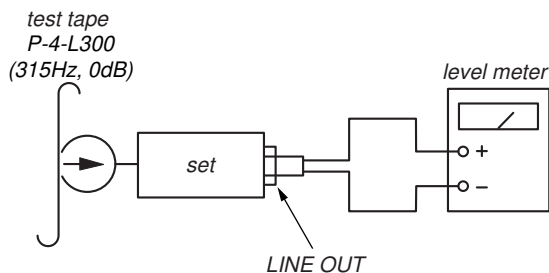
Sample Value of Wow and flutter

W. RMS (JIS) within 0.3%
(test tape: WS-48B)

Playback Level Adjustment

Procedure :

1. Mode : FWD playback



Adjust SFR01 (L-CH) and SFR02 (R-CH) so that the reading on level meter meets the adjustment limits below.

Adjustment Limits :

LINE OUT level : -7.7 ± 0.5 dB (301.5 to 338.5 mV)

Level difference between channels : within 0.5 dB

Check that the LINE OUT level does not change even if Playback and Stop operations are repeated several times.

Adjustment Location : DOLBY board (Refer to page 32.)

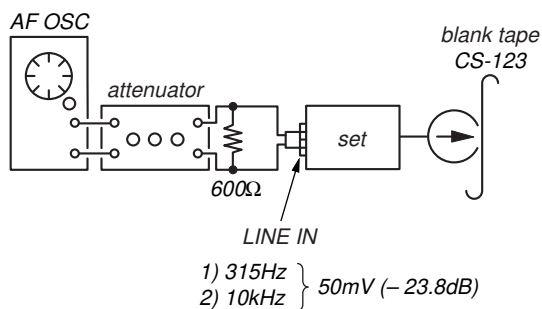
Record BIAS Adjustment

Setting :

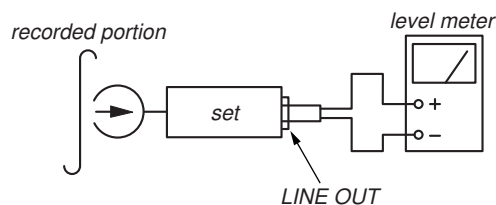
- The REC LEVEL control must be positioned at the standard record level position. (Refer to page 29.)

Procedure :

1. Mode: Record



2. Playback



3. Reproduce the portion of tape which is recorded in step 1. Confirm that the playback level stays within the specified range of the Adjustment Level.
4. If the playback level is outside the specified range, adjust the SFR03 (L-CH) and SFR04 (R-CH), and repeat steps 1 to 3 until the specified range is satisfied.

Adjustment Level : Difference of the playback level between 10 kHz and 315 Hz : $0 \text{ dB} \pm 0.5 \text{ dB}$ when 315 Hz is the reference.
Adjustment Location : DOLBY board (Refer to page 32.)

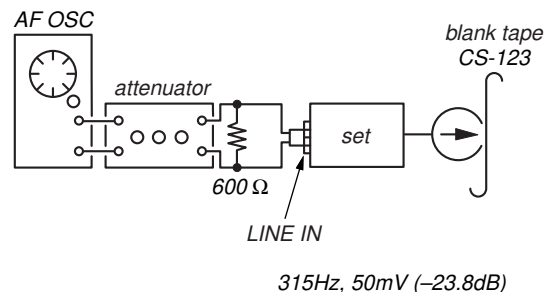
Record Level Adjustment

Setting :

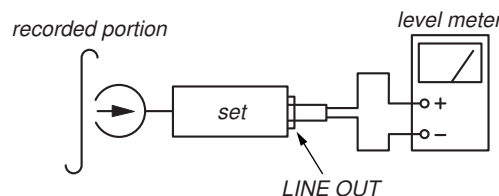
- The REC LEVEL control must be positioned at the standard record level position. (Refer to page 29.)

Procedure :

1. Record



2. Playback

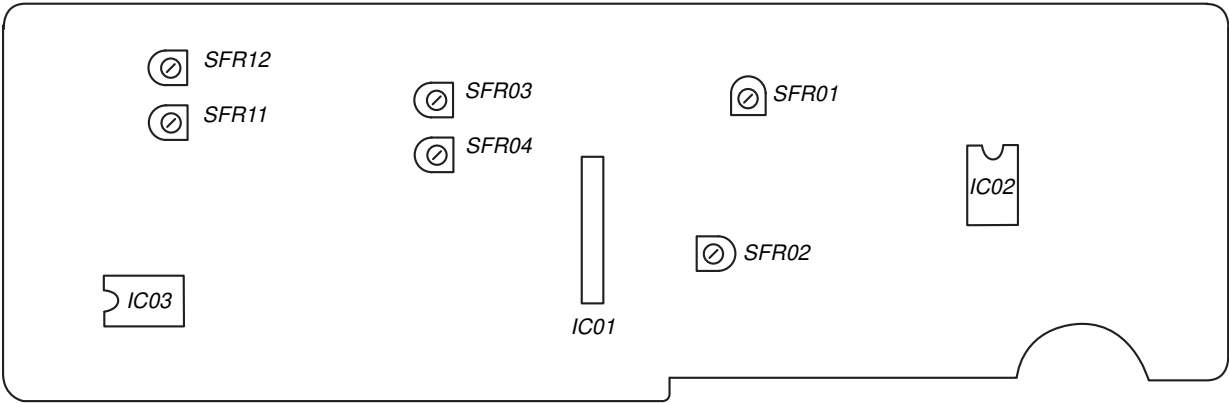


3. Reproduce the portion of tape which is recorded in step 1. Confirm that the playback level stays within the specified range of the Adjustment Level.
4. If the playback level is outside the specified range, adjust the SFR11 (L-CH) and SFR12 (R-CH), and repeat steps 1 to 3 until the specified range is satisfied.

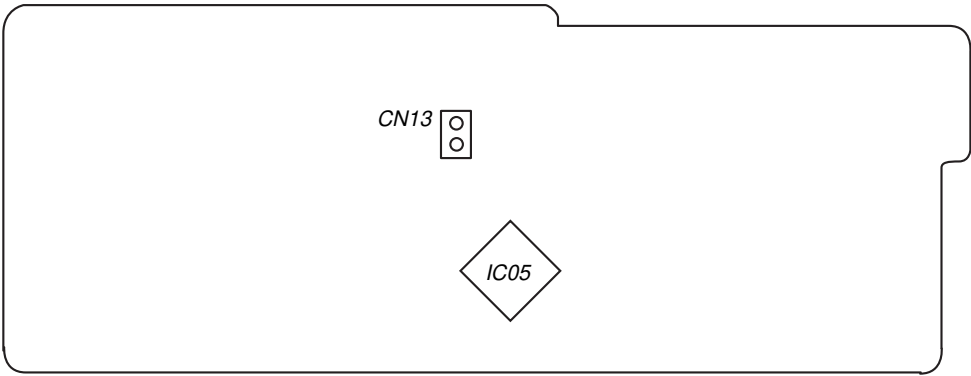
Adjustment Level : $-23.8 \text{ dB} \pm 0.5 \text{ dB}$ (47.3 to 53.1 mV)
Adjustment Location : DOLBY board (Refer to page 32.)

Adjustment Location:

DOLBY board (Component Side)



CONTROL board (Component Side)



SECTION 6 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

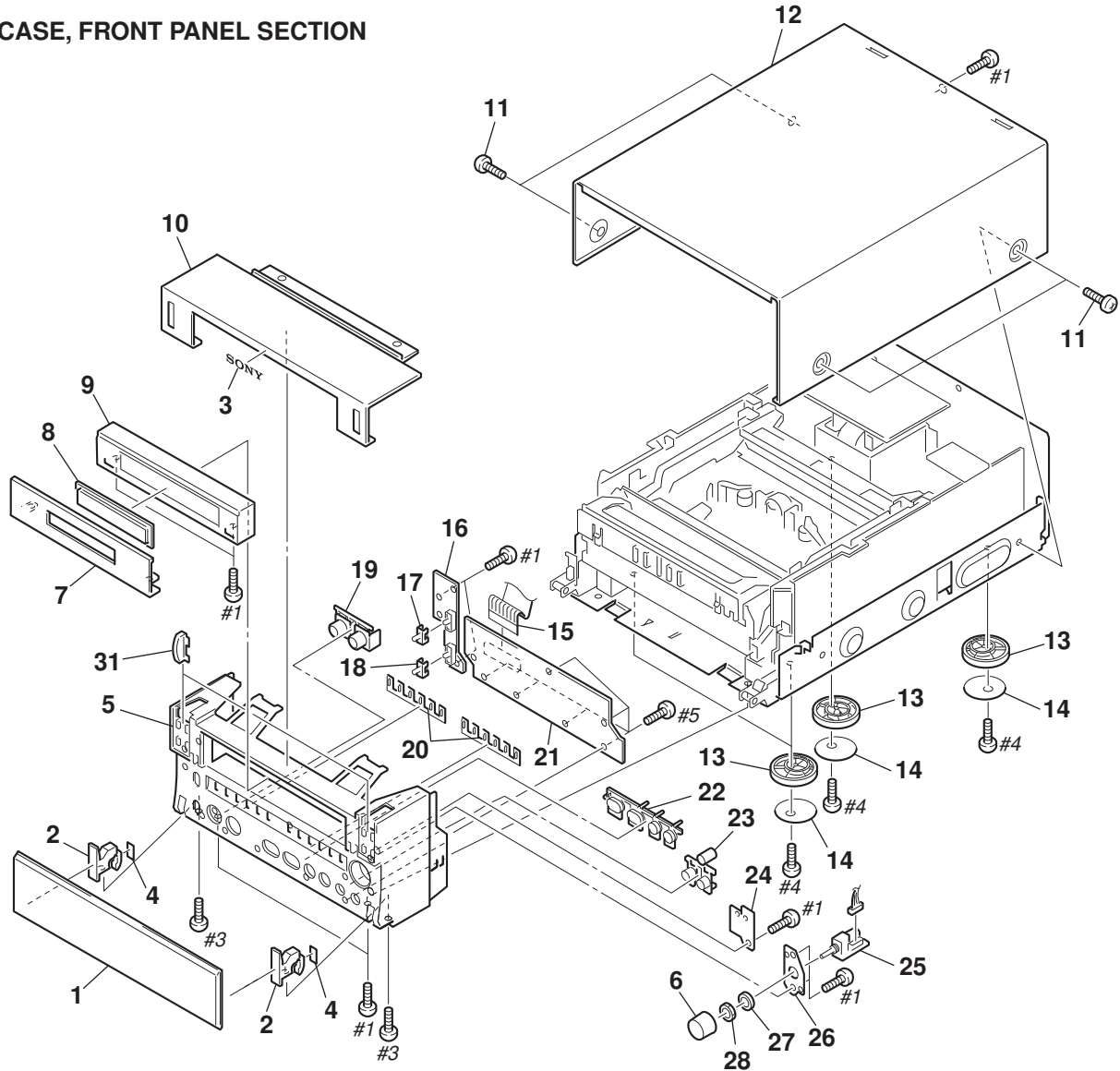
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

Abbreviations

HK : Hong Kong
SP : Singapore

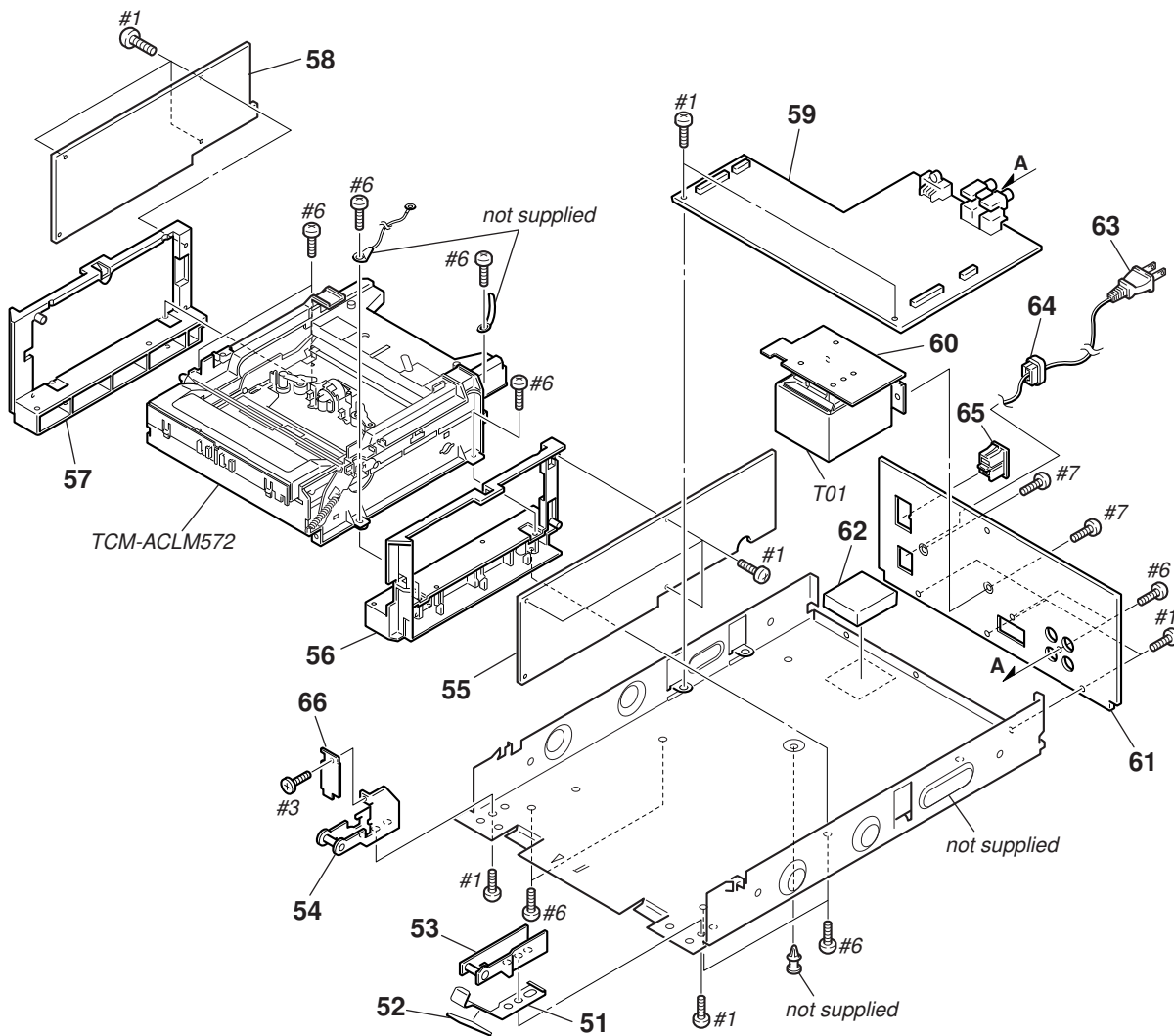
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

6-1. CASE, FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	3-033-056-01	WINDOW, GLASS		* 16	A-2007-825-A	CONNECTION BOARD, COMPLETE	
2	4-212-579-11	BRACKET (GLASS)		17	3-033-080-01	DOLBY KNOB	
3	4-942-636-21	EMBLEM (NO.3.5), SONY		18	3-033-078-01	DIRECTION KNOB	
4	4-214-458-01	TAPE		19	4-212-557-01	BUTTON (REC)	
5	3-033-074-01	CHASSIS, FRONT		20	3-033-075-01	LENS	
6	3-033-079-01	REC LEVEL KNOB		* 21	A-2007-817-A	FRONT BOARD, COMPLETE	
7	3-028-756-01	PANEL (AL-TC), LOADING		22	3-033-076-01	BUTTON, PLAY	
8	3-033-054-01	PLATE, LOADING ORNAMENT		23	3-033-077-01	BUTTON, FF	
9	3-033-055-01	LID, LOADING		* 24	A-2007-823-A	O/C SW BOARD, COMPLETE	
10	3-028-755-01	PANEL (AL-TC), FRONT		* 25	1-672-765-11	VR BOARD	
11	3-033-057-01	SCREW, CASE STOPPER		26	3-033-081-01	REC LEVEL BRACKET	
* 12	3-033-052-01	TOP COVER		27	3-033-082-01	VR WASHER 9Q	
* 13	3-033-053-01	FOOT		28	3-033-083-01	NUT, VR	
14	3-033-061-01	FOOT CUSHION		31	4-212-539-02	BUTTON (POWER)	
15	1-773-128-11	WIRE (FLAT TYPE) (19 CORE)					

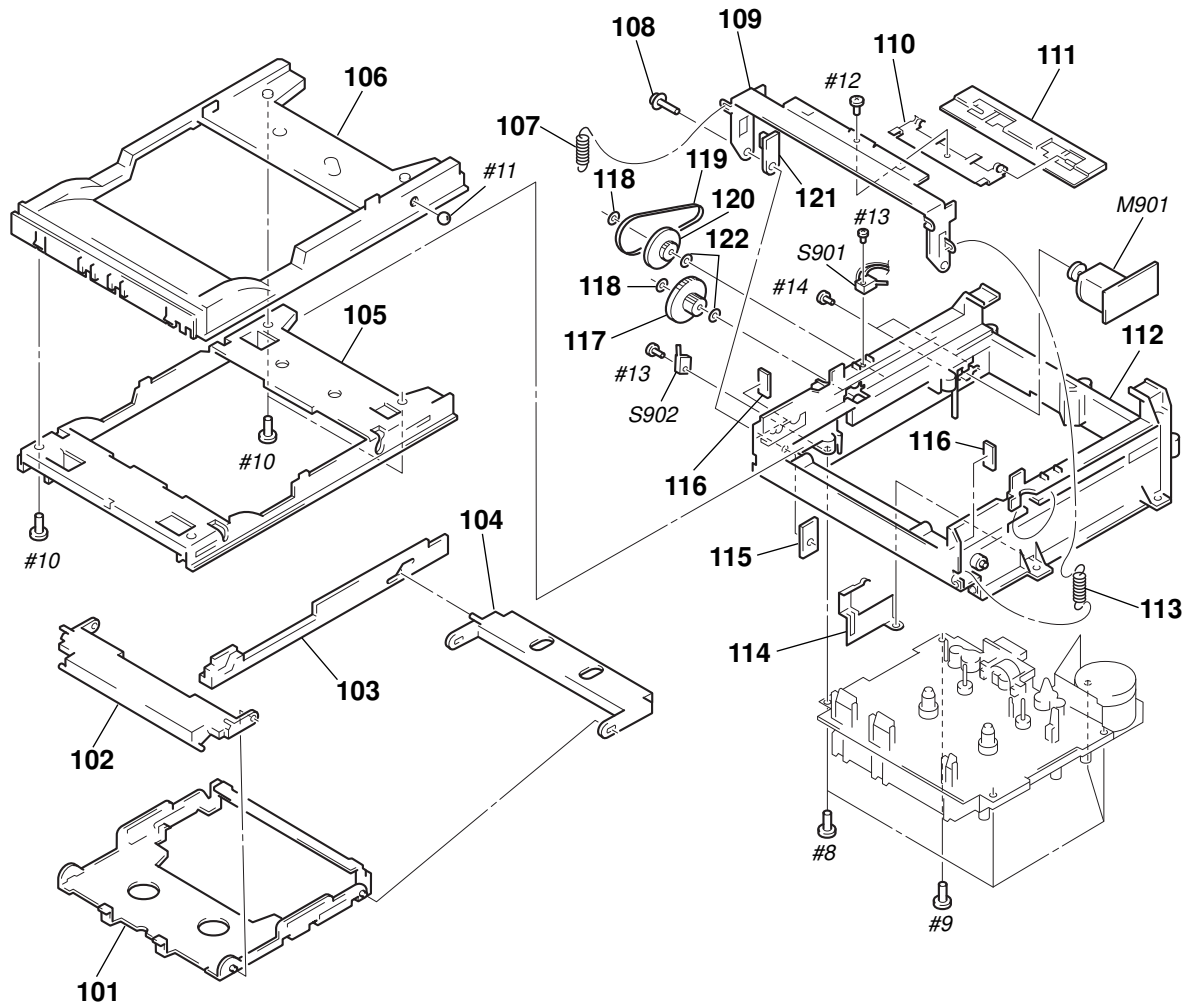
6-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	3-033-060-01	SPRING, PLATE		* 59	A-2007-820-A	POWER BOARD, COMPLETE	
52	4-213-692-02	TAPE (SPRING)		* 60	1-672-764-11	POWER TRANS BOARD	
53	X-4950-381-1	BRACKET (R) ASSY		* 61	3-035-607-01	REAR PANEL (AEP, UK)	
54	3-033-050-01	HINGE (L/O), DOOR		* 61	3-035-608-01	REAR PANEL (E, HK, SP)	
* 55	A-2007-818-A	DOLBY BOARD, COMPLETE		* 62	3-033-068-01	CUSHION	
* 56	3-033-063-01	CHASSIS (R), DECK		△ 63	1-555-750-00	CORD, POWER	
* 57	3-033-062-01	CHASSIS (L), DECK		64	3-033-071-01	STOPPER, AC CORD	
* 58	A-2007-819-A	CONTROL BOARD, COMPLETE		△ 65	1-526-794-11	OUTLET, AC	
				* 66	A-2007-824-A	PANEL SW BOARD, COMPLETE	
				△ T01	1-433-657-11	TRANSFORMER, POWER	

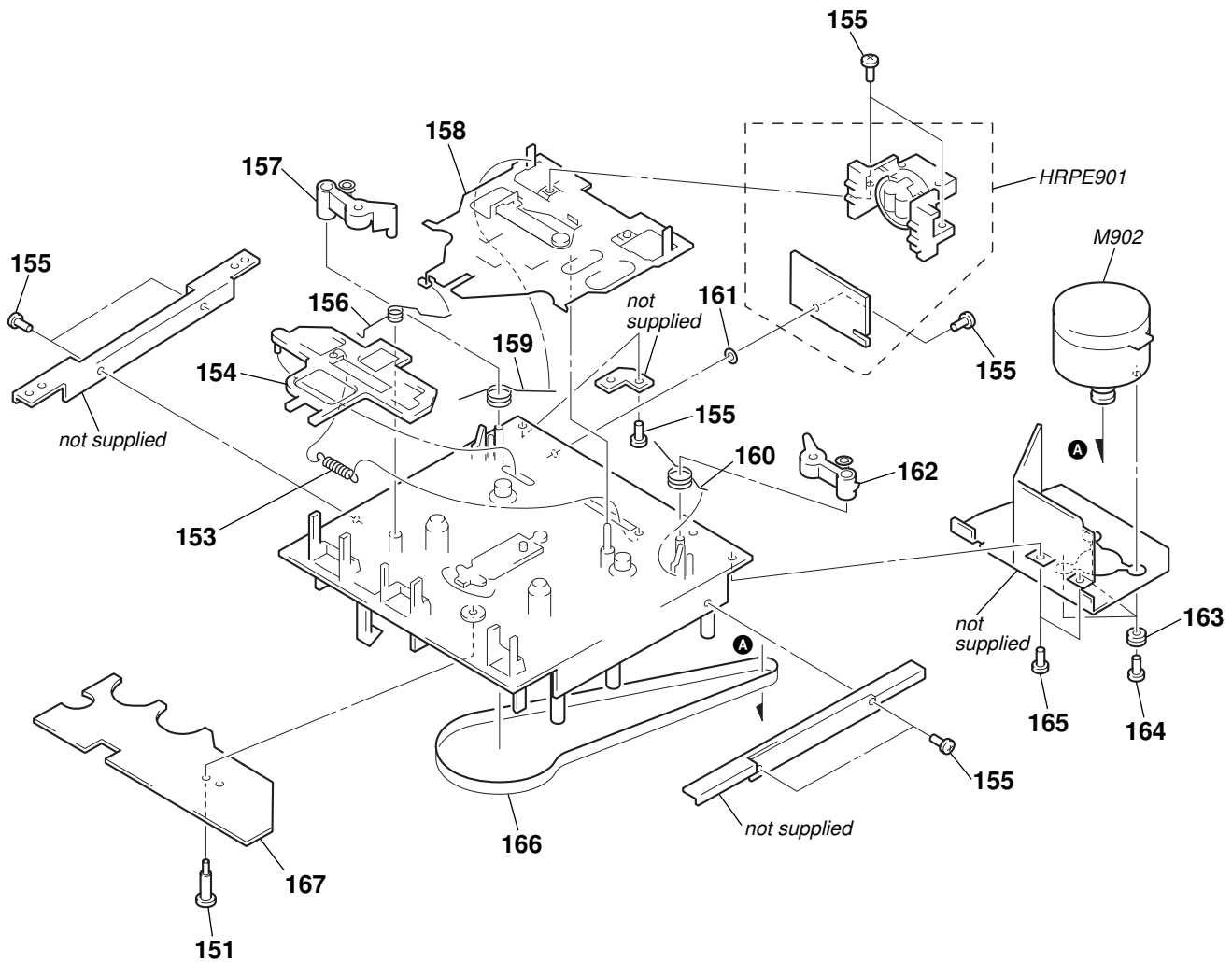
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

6-3. MECHANISM DECK SECTION-1 (TCM-ACLM572)



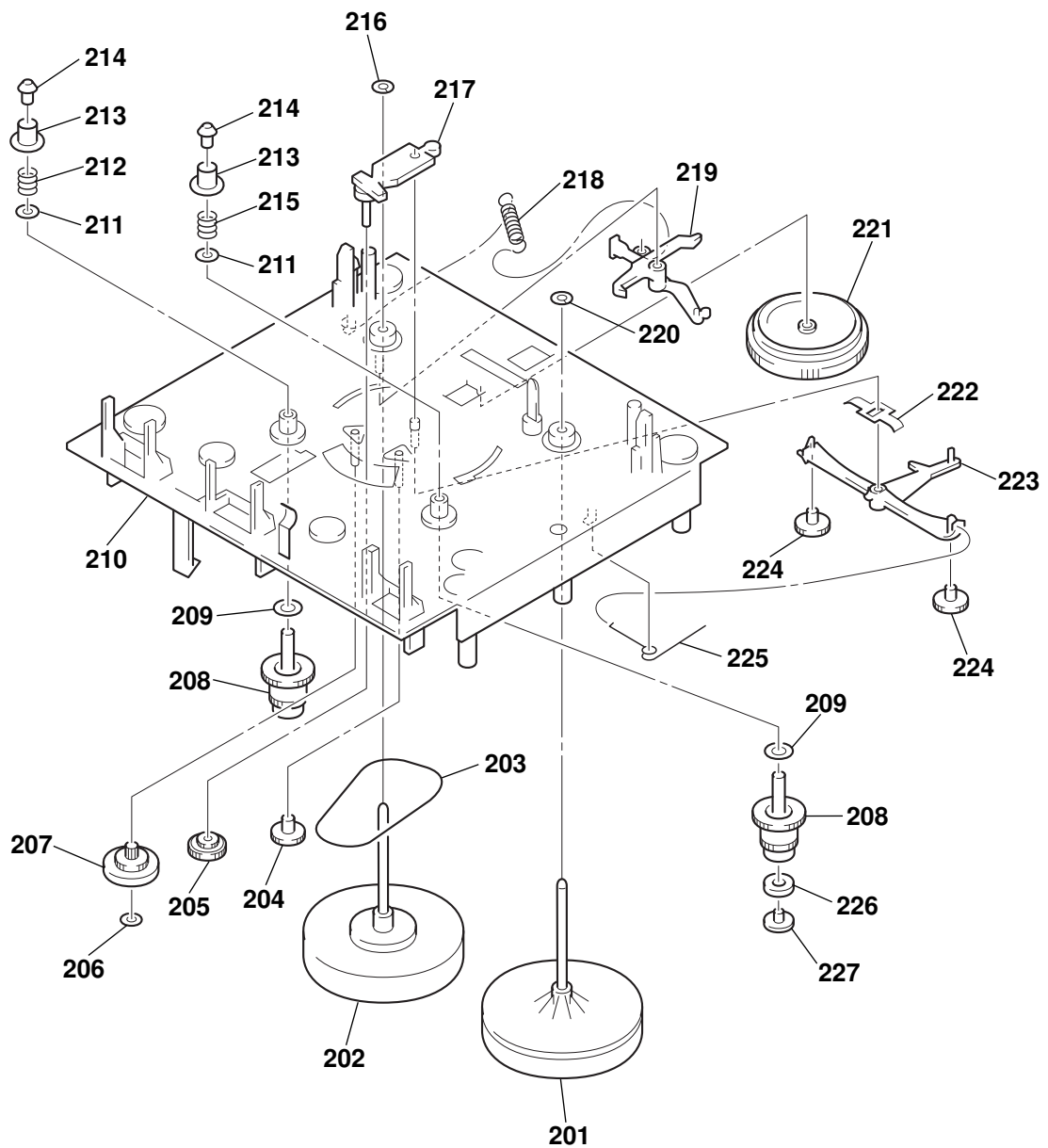
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
101	3-017-214-01	HOLDER		114	3-017-234-01	GROUND, PLATE	
102	3-017-215-01	ARM (A)		115	3-017-243-01	NUT	
103	3-017-233-01	RACK, GEAR		116	3-017-242-01	BUFFER	
104	3-017-216-01	ARM (C)		117	3-017-232-01	GEAR (B)	
105	3-017-213-01	CHASSIS		118	3-017-241-01	SCREW (1.6 × 4), SPECIAL	
106	3-017-212-01	TRAY		119	3-017-237-01	BELT (49.2)	
107	3-017-235-01	SPRING (A)		120	3-017-231-01	PULLEY (C)	
108	3-017-244-01	SCREW (1.7 × 8.2), SPECIAL		121	3-017-220-01	ARM	
109	3-017-217-01	ARM (576)		122	3-017-240-01	SCREW (2.1 × 4), SPECIAL	
110	3-017-218-01	RETAINER		M901	3-017-239-01	PULLEY (MOTOR) (LOADING)	
111	3-017-219-01	PLATE		S901	3-017-238-01	LIMITTER (SW MSS-8B) (OPEN)	
112	3-017-211-01	FRAME		S902	3-017-238-01	LIMITTER (SW MSS-8B) (CLOSE)	
113	3-017-236-01	SPRING (B)					

6-4. MECHANISM DECK SECTION-2 (TCM-ACLM572)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	3-017-294-01	SCREW (S), SPECIAL		161	3-017-300-01	WASHER, FLAT	
153	3-017-273-01	LEVER (AC), SPRING		162	3-017-255-01	PINCH ROLLER (R)	
154	3-017-270-01	AC, LEVER		163	3-017-296-01	CUSHION (MOTOR)	
155	3-017-279-01	SCREW (M2), SPECIAL		164	3-017-297-01	SCREW (MOTOR)	
156	3-017-274-01	HEAD, SPRING BASE		165	3-017-280-01	SCREW (M2 TAPPING), SPECIAL	
157	3-017-254-01	PINCH ROLLER (F)		166	3-017-285-01	BELT (MAIN)	
158	3-017-253-01	CHASSIS (HEAD)		* 167	1-672-011-11	MODE CONTROL BOARD	
159	3-017-277-01	PINCH (F), SPRING		HRPE901	3-017-303-01	HEAD (REC/PLAY/ERASE)	
160	3-017-278-01	PINCH (R), SPRING		M902	3-017-259-01	PULLEY (MOTOR) (CAPSTAN REEL)	

6-5. MECHANISM DECK SECTION-3 (TCM-ACLM572)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
201	3-017-258-01	FLYWHEEL (R)		214	3-017-262-01	REEL, BUSHING	
202	3-017-257-01	FLYWHEEL (F)		215	3-017-272-01	SPRING (BT)	
203	3-017-284-01	BELT (SUB)		216	3-017-281-01	WASHER, FLAT	
204	3-017-265-01	IDLER, GEAR		217	3-017-256-01	ARM (PLAY)	
205	3-017-305-01	GEAR (P)		218	3-017-275-01	LOCK, SPRING CAM	
206	3-017-283-01	WASHER, FLAT		219	3-017-267-01	LOCK, ARM CAM	
207	3-017-304-01	CLUTCH		220	3-017-282-01	WASHER, FLAT	
208	3-017-263-01	REEL, BASE		221	3-017-264-01	CAM, GEAR	
209	3-017-295-01	WASHER, FLAT		222	3-017-266-01	BASE, LEVER	
210	3-017-252-01	CHASSIS (OS)		223	3-017-268-01	ARM (RF)	
211	3-017-298-01	WASHER (B/T)		224	3-017-269-01	GEAR (RF)	
212	3-017-299-01	SPRING (B/T) (F)		225	3-017-276-01	ARM (RF), SPRING	
213	3-017-288-01	REEL, CAP		226	3-017-293-01	MAGNET, PLATE	
				227	3-017-271-01	CAP (MG)	

CONTROL

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
uF: μ F
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- Abbreviations
HK : Hong Kong
SP : Singapore

- SEMICONDUCTORS
In each case, $u: \mu$, for example:
 $uA...: \mu A... , uPA... , \mu PA... ,$
 $uPB... , \mu PB... , uPC... , \mu PC... ,$
 $uPD... , \mu PD...$

When indicating parts by reference number, please include the board name.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>		
*	A-2007-825-A	CONNECTION BOARD, COMPLETE			

< RESISTOR >					
R221	1-247-855-11	CARBON	10K	5%	1/4W
R225	1-247-839-11	CARBON	2.2K	5%	1/4W
R226	1-247-843-11	CARBON	3.3K	5%	1/4W
R227	1-247-863-11	CARBON	22K	5%	1/4W
R228	1-247-871-11	CARBON	47K	5%	1/4W
< SWITCH >					
S7	1-572-647-11	SWITCH, KEY BOARD (POWER)			
S11	1-692-505-11	SWITCH, SLIDE (DIRECTION)			
S12	1-692-505-11	SWITCH, SLIDE (DOLBY NR)			

* A-2007-819-A		CONTROL BOARD, COMPLETE			

< CAPACITOR >					
C68	1-162-282-31	CERAMIC	100PF	10%	50V
C69	1-137-372-11	FILM	0.022uF	5%	50V
C70	1-162-217-31	CERAMIC	56PF	5%	50V
C71	1-126-961-11	ELECT	2.2uF	20%	50V
C73	1-126-960-11	ELECT	1uF	20%	50V
C74	1-126-916-11	ELECT	1000uF	20%	6.3V
C75	1-161-494-00	CERAMIC	0.022uF		25V
C76	1-126-964-11	ELECT	10uF	20%	50V
C77	1-164-159-11	CERAMIC	0.1uF		50V
C78	1-162-306-11	CERAMIC	0.01uF	20%	16V
C79	1-162-306-11	CERAMIC	0.01uF	20%	16V
C81	1-126-935-11	ELECT	470uF	20%	16V
C82	1-126-934-11	ELECT	220uF	20%	16V
C83	1-162-282-31	CERAMIC	100PF	10%	50V
C70A	1-126-964-11	ELECT	10uF	20%	50V
C74A	1-164-159-11	CERAMIC	0.1uF		50V
C76A	1-126-963-11	ELECT	4.7uF	20%	50V
C76B	1-104-664-11	ELECT	47uF	20%	16V
C77A	1-164-159-11	CERAMIC	0.1uF		50V

< FILTER >

CF01 1-579-125-11 VIBRATOR, CERAMIC 8MHz

Ref. No.	Part No.	Description	Remarks
< CONNECTOR >			
* CN05	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN07	1-785-785-11	SOCKET, CONNECTOR 10P	
* CN08	1-564-715-11	PIN, CONNECTOR (SMALL TYPE) 13P	
CN09	1-568-802-11	SOCKET, CONNECTOR 19P	
CN12	1-785-779-11	SOCKET, CONNECTOR 13P	
CN12A	1-785-780-11	HEADER, PIN 13P	
* CN14	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
< DIODE >			
D02	8-719-911-19	DIODE 1SS119	
D03	8-719-911-19	DIODE 1SS119	
D04	8-719-911-19	DIODE 1SS119	
D13	8-719-109-97	DIODE RD6.8ES-B2	
D14	8-719-109-85	DIODE RD5.1ES-B2	
D15	8-719-911-19	DIODE 1SS119	
D16	8-719-109-85	DIODE RD5.1ES-B2	
D19	8-719-055-76	DIODE 1N4148	
D20	8-719-911-19	DIODE 1SS119	
D28	8-719-200-02	DIODE 10E2	
< IC >			
IC05	8-759-575-34	IC TMP87CH48DF-4B67	
IC06	8-759-822-09	IC LB1641	
IC07	8-759-165-85	IC PST600H-T	
IC08	8-759-710-59	IC NJM4580D-D	
< TRANSISTOR >			
Q19	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q21	8-729-900-63	TRANSISTOR DTA124ES	
Q22	8-729-900-63	TRANSISTOR DTA124ES	
Q23	8-729-900-63	TRANSISTOR DTA124ES	
Q24	8-729-993-43	TRANSISTOR 2SA934R	
Q25	8-729-993-43	TRANSISTOR 2SA934R	
Q26	8-729-029-86	TRANSISTOR DTC124ESA	
Q27	8-729-029-86	TRANSISTOR DTC124ESA	
Q29	8-729-900-63	TRANSISTOR DTA124ES	
Q30	8-729-900-63	TRANSISTOR DTA124ES	
Q31	8-729-900-63	TRANSISTOR DTA124ES	
Q32	8-729-900-63	TRANSISTOR DTA124ES	
Q33	8-729-900-63	TRANSISTOR DTA124ES	
Q34	8-729-900-63	TRANSISTOR DTA124ES	
Q35	8-729-900-63	TRANSISTOR DTA124ES	
Q36	8-729-900-63	TRANSISTOR DTA124ES	
Q38	8-729-900-63	TRANSISTOR DTA124ES	

Ref. No.	Part No.	Description				Remarks
< RESISTOR >						
R76	1-249-437-11	CARBON	47K	5%	1/4W	
R77	1-249-427-11	CARBON	6.8K	5%	1/4W F	
R78	1-247-843-11	CARBON	3.3K	5%	1/4W	
R79	1-247-879-11	CARBON	100K	5%	1/4W	
R80	1-247-879-11	CARBON	100K	5%	1/4W	
R81	1-247-855-11	CARBON	10K	5%	1/4W	
R82	1-249-417-11	CARBON	1K	5%	1/4W F	
R83	1-249-432-11	CARBON	18K	5%	1/4W	
R84	1-249-436-11	CARBON	39K	5%	1/4W	
R85	1-247-879-11	CARBON	100K	5%	1/4W	
R86	1-249-417-11	CARBON	1K	5%	1/4W F	
R87	1-249-413-11	CARBON	470	5%	1/4W F	
R88	1-247-855-11	CARBON	10K	5%	1/4W	
R89	1-247-855-11	CARBON	10K	5%	1/4W	
R90	1-249-417-11	CARBON	1K	5%	1/4W F	
R91	1-249-417-11	CARBON	1K	5%	1/4W F	
R96	1-247-855-11	CARBON	10K	5%	1/4W	
R97	1-249-417-11	CARBON	1K	5%	1/4W F	
R98	1-247-855-11	CARBON	10K	5%	1/4W	
R99	1-249-417-11	CARBON	1K	5%	1/4W F	
R100	1-247-807-11	CARBON	100	5%	1/4W	
R101	1-247-855-11	CARBON	10K	5%	1/4W	
R102	1-247-847-11	CARBON	4.7K	5%	1/4W	
R103	1-247-807-11	CARBON	100	5%	1/4W	
R104	1-249-427-11	CARBON	6.8K	5%	1/4W F	
R105	1-249-427-11	CARBON	6.8K	5%	1/4W F	
R107	1-249-398-11	CARBON	27	5%	1/4W F	
R109	1-247-867-11	CARBON	33K	5%	1/4W	
R110	1-247-807-11	CARBON	100	5%	1/4W	
R111	1-247-879-11	CARBON	100K	5%	1/4W	
R112	1-249-430-11	CARBON	12K	5%	1/4W	
R113	1-249-440-11	CARBON	82K	5%	1/4W	
R114	1-249-417-11	CARBON	1K	5%	1/4W F	
R116	1-249-427-11	CARBON	6.8K	5%	1/4W F	
R117	1-249-412-11	CARBON	390	5%	1/4W F	
R20A	1-247-855-11	CARBON	10K	5%	1/4W	
R200	1-249-412-11	CARBON	390	5%	1/4W F	
R201	1-249-412-11	CARBON	390	5%	1/4W F	
R202	1-249-412-11	CARBON	390	5%	1/4W F	
R203	1-249-412-11	CARBON	390	5%	1/4W F	
R204	1-249-409-11	CARBON	220	5%	1/4W F	
R205	1-249-409-11	CARBON	220	5%	1/4W F	
R206	1-249-412-11	CARBON	390	5%	1/4W F	
R207	1-249-412-11	CARBON	390	5%	1/4W F	
R208	1-249-412-11	CARBON	390	5%	1/4W F	
R209	1-249-412-11	CARBON	390	5%	1/4W F	
R210	1-249-412-11	CARBON	390	5%	1/4W F	
R211	1-249-412-11	CARBON	390	5%	1/4W F	
R212	1-249-412-11	CARBON	390	5%	1/4W F	
R214	1-249-412-11	CARBON	390	5%	1/4W F	
R404	1-249-437-11	CARBON	47K	5%	1/4W	
R102A	1-247-855-11	CARBON	10K	5%	1/4W	

< CIRCUIT BLOCK >

RA01 1-234-267-11 CIRCUIT BLOCK, COMPOSITION (10K × 11)

Ref. No.	Part No.	Description	Remarks		
*	A-2007-818-A	DOLBY BOARD, COMPLETE			

		< CAPACITOR >			
C01	1-162-292-31	CERAMIC	680PF	10%	50V
C02	1-162-292-31	CERAMIC	680PF	10%	50V
C03	1-162-282-31	CERAMIC	100PF	10%	50V
C04	1-162-282-31	CERAMIC	100PF	10%	50V
C05	1-137-372-11	FILM	0.022uF	5%	50V
C06	1-137-372-11	FILM	0.022uF	5%	50V
C07	1-104-664-11	ELECT	47uF	20%	25V
C08	1-104-664-11	ELECT	47uF	20%	25V
C09	1-107-714-11	ELECT	10uF	20%	16V
C10	1-107-714-11	ELECT	10uF	20%	16V
C11	1-126-925-11	ELECT	470uF	20%	10V
C12	1-126-925-11	ELECT	470uF	20%	10V
C13	1-137-372-11	FILM	0.022uF	5%	50V
C14	1-137-372-11	FILM	0.022uF	5%	50V
C15	1-126-964-11	ELECT	10uF	20%	50V
C16	1-107-714-11	ELECT	10uF	20%	16V
C17	1-162-288-31	CERAMIC	330PF	10%	50V
C18	1-162-288-31	CERAMIC	330PF	10%	50V
C19	1-107-609-11	CERAMIC	75PF	5%	500V
C20	1-107-609-11	CERAMIC	75PF	5%	500V
C21	1-107-610-11	CERAMIC	82PF	5%	500V
C22	1-107-610-11	CERAMIC	82PF	5%	500V
C23	1-136-562-11	FILM	0.0082uF	5%	630V
C24	1-126-961-11	ELECT	2.2uF	20%	50V
C25	1-137-436-11	FILM	0.0039uF	5%	50V
C26	1-137-436-11	FILM	0.0039uF	5%	50V
C27	1-137-370-11	FILM	0.01uF	5%	50V
C28	1-126-960-11	ELECT	1uF	20%	50V
C29	1-104-665-11	ELECT	100uF	20%	25V
C30	1-126-961-11	ELECT	2.2uF	20%	50V
C33	1-126-963-11	ELECT	4.7uF	20%	50V
C34	1-126-963-11	ELECT	4.7uF	20%	50V
C35	1-162-282-31	CERAMIC	100PF	10%	50V
C36	1-162-282-31	CERAMIC	100PF	10%	50V
C37	1-126-964-11	ELECT	10uF	20%	50V
C38	1-126-964-11	ELECT	10uF	20%	50V
C39	1-136-165-00	FILM	0.1uF	5%	50V
C40	1-136-165-00	FILM	0.1uF	5%	50V
C41	1-136-163-00	FILM	0.068uF	5%	50V
C42	1-136-163-00	FILM	0.068uF	5%	50V
C43	1-126-964-11	ELECT	10uF	20%	50V
C44	1-126-964-11	ELECT	10uF	20%	50V
C45	1-104-665-11	ELECT	100uF	20%	10V
C46	1-104-665-11	ELECT	100uF	20%	10V
C47	1-126-960-11	ELECT	1uF	20%	50V
C60	1-126-960-11	ELECT	1uF	20%	50V
C61	1-126-960-11	ELECT	1uF	20%	50V
C62	1-126-961-11	ELECT	2.2uF	20%	50V
C63	1-126-961-11	ELECT	2.2uF	20%	50V
C64	1-162-282-31	CERAMIC	100PF	10%	50V
C65	1-162-282-31	CERAMIC	100PF	10%	50V
C66	1-162-306-11	CERAMIC	0.01uF	20%	16V
C67	1-162-306-11	CERAMIC	0.01uF	20%	16V
C400	1-126-960-11	ELECT	1uF	20%	50V
C401	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< CONNECTOR >				R11	1-247-855-11	CARBON 10K 5%	1/4W
* CN01	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		R12	1-247-855-11	CARBON 10K 5%	1/4W
CN04	1-785-778-11	SOCKET, CONNECTOR 8P		R13	1-247-843-11	CARBON 3.3K 5%	1/4W
< DIODE >				R14	1-247-843-11	CARBON 3.3K 5%	1/4W
				R15	1-249-431-11	CARBON 15K 5%	1/4W
D01	8-719-911-19	DIODE 1SS119		R16	1-249-431-11	CARBON 15] 5%	1/4W
D05	8-719-911-19	DIODE 1SS119		R17	1-249-387-11	CARBON 3.3 5%	1/4W F
D06	8-719-911-19	DIODE 1SS119		R18	1-247-847-11	CARBON 4.7K 5%	1/4W
< IC >				R19	1-249-390-11	CARBON 5.6 5%	1/4W F
IC01	8-759-112-93	IC UPC4570HA-1		R20	1-249-432-11	CARBON 18K 5%	1/4W
IC02	8-752-060-46	IC CXA1561S		R21	1-249-432-11	CARBON 18K 5%	1/4W
IC03	8-752-070-69	IC CXA1598S		R22	1-249-424-11	CARBON 3.9K 5%	1/4W F
< COIL >				R23	1-249-432-11	CARBON 18K 5%	1/4W
L01	1-414-223-11	INDUCTOR 470uH		R24	1-249-420-11	CARBON 1.8K 5%	1/4W F
L02	1-414-223-11	INDUCTOR 470uH		R25	1-247-838-11	CARBON 2K 5%	1/4W
L03	1-410-780-11	INDUCTOR 27mH		R28	1-247-855-11	CARBON 10K 5%	1/4W
L04	1-410-780-11	INDUCTOR 27mH		R29	1-247-855-11	CARBON 10K 5%	1/4W
L07	1-429-316-11	TRANSFORMER, BIAS OSCILLATION (BIAS)		R30	1-247-855-11	CARBON 10K 5%	1/4W
< FILTER >				R31	1-247-855-11	CARBON 10K 5%	1/4W
LPF05	1-236-087-11	FILTER, LOW PASS		R32	1-247-843-11	CARBON 3.3K 5%	1/4W
LPF06	1-236-087-11	FILTER, LOW PASS		R33	1-247-843-11	CARBON 3.3K 5%	1/4W
< TRANSISTOR >				R34	1-249-428-11	CARBON 8.2K 5%	1/4W F
Q01	8-729-029-86	TRANSISTOR DTC124ESA		R36	1-247-863-11	CARBON 22K 5%	1/4W
Q02	8-729-029-86	TRANSISTOR DTC124ESA		R37	1-247-863-11	CARBON 22K 5%	1/4W
Q03	8-729-029-68	TRANSISTOR DTC114TSA		R38	1-249-418-11	CARBON 1.2K 5%	1/4W F
Q04	8-729-029-68	TRANSISTOR DTC114TSA		R39	1-249-418-11	CARBON 1.2K 5%	1/4W F
Q05	8-729-231-55	TRANSISTOR 2SC2878-AB		R40	1-247-863-11	CARBON 22K 5%	1/4W
Q06	8-729-231-55	TRANSISTOR 2SC2878-AB		R41	1-247-863-11	CARBON 22K 5%	1/4W
Q07	8-729-029-86	TRANSISTOR DTC124ESA		R44	1-247-883-00	CARBON 150K 5%	1/4W
Q08	8-729-142-46	TRANSISTOR 2SC2001-LK		R45	1-249-428-11	CARBON 8.2K 5%	1/4W F
Q09	8-729-142-46	TRANSISTOR 2SC2001-LK		R46	1-249-428-11	CARBON 8.2K 5%	1/4W F
Q10	8-729-140-96	TRANSISTOR 2SD774-34		R49	1-247-839-11	CARBON 2.2K 5%	1/4W
Q11	8-729-900-63	TRANSISTOR DTA124ES		R50	1-247-839-11	CARBON 2.2K 5%	1/4W
Q12	8-729-029-86	TRANSISTOR DTC124ESA		R51	1-247-839-11	CARBON 2.2K 5%	1/4W
Q13	8-729-029-86	TRANSISTOR DTC124ESA		R52	1-247-839-11	CARBON 2.2K 5%	1/4W
Q14	8-729-029-68	TRANSISTOR DTC114TSA		R53	1-247-843-11	CARBON 3.3K 5%	1/4W
Q15	8-729-029-68	TRANSISTOR DTC114TSA		R54	1-247-843-11	CARBON 3.3K 5%	1/4W
Q16	8-729-029-86	TRANSISTOR DTC124ESA		R55	1-249-417-11	CARBON 1K 5%	1/4W F
Q17	8-729-029-86	TRANSISTOR DTC124ESA		R56	1-249-417-11	CARBON 1K 5%	1/4W F
Q18	8-729-029-86	TRANSISTOR DTC124ESA		R57	1-249-436-11	CARBON 39K 5%	1/4W
Q45	8-729-194-57	TRANSISTOR 2SC945-P		R58	1-249-431-11	CARBON 15K 5%	1/4W
Q12A	8-729-900-63	TRANSISTOR DTA124ES		R59	1-247-879-11	CARBON 100K 5%	1/4W
Q13A	8-729-900-63	TRANSISTOR DTA124ES		R60	1-249-439-11	CARBON 68K 5%	1/4W
< RESISTOR >				R61	1-247-867-11	CARBON 33K 5%	1/4W
R01	1-247-881-00	CARBON 120K 5%	1/4W	R62	1-247-883-00	CARBON 150K 5%	1/4W
R02	1-247-881-00	CARBON 120K 5%	1/4W	R63	1-249-438-11	CARBON 56K 5%	1/4W
R03	1-247-881-00	CARBON 120K 5%	1/4W	R64	1-249-432-11	CARBON 18K 5%	1/4W
R04	1-247-881-00	CARBON 120K 5%	1/4W	R65	1-247-883-00	CARBON 150K 5%	1/4W
R05	1-247-850-11	CARBON 6.2K 5%	1/4W	R66	1-249-430-11	CARBON 12K 5%	1/4W
R06	1-247-850-11	CARBON 6.2K 5%	1/4W	R67	1-247-849-11	CARBON 5.6K 5%	1/4W
R07	1-249-404-00	CARBON 82 5%	1/4W F	R68	1-249-431-11	CARBON 15K 5%	1/4W
R08	1-249-404-00	CARBON 82 5%	1/4W F	R69	1-249-436-11	CARBON 39K 5%	1/4W
R09	1-247-839-11	CARBON 2.2K 5%	1/4W	R70	1-247-863-11	CARBON 22K 5%	1/4W
R10	1-247-839-11	CARBON 2.2K 5%	1/4W	R71	1-247-876-11	CARBON 75K 5%	1/4W
				R72	1-247-876-11	CARBON 75K 5%	1/4W
				R73	1-249-431-11	CARBON 15K 5%	1/4W
				R74	1-249-431-11	CARBON 15K 5%	1/4W
				R75	1-249-434-11	CARBON 27K 5%	1/4W
				R01A	1-249-393-11	CARBON 10 5%	1/4W F
				R015	1-249-409-11	CARBON 220 5%	1/4W F

DOLBY

FRONT

MODE CONTROL

Ref. No.	Part No.	Description	Remarks
R016	1-249-409-11	CARBON 220 5%	1/4W F
R19A	1-249-390-11	CARBON 5.6 5%	1/4W F
R40A	1-247-847-11	CARBON 4.7K 5%	1/4W
R400	1-247-903-00	CARBON 1M 5%	1/4W
R401	1-249-417-11	CARBON 1K 5%	1/4W F
R402	1-249-424-11	CARBON 3.9K 5%	1/4W F
R403	1-247-855-11	CARBON 10K 5%	1/4W
R41A	1-247-847-11	CARBON 4.7K 5%	1/4W
R44A	1-247-862-11	CARBON 20K 5%	1/4W
R45A	1-249-389-11	CARBON 4.7 5%	1/4W F
R46A	1-249-389-11	CARBON 4.7 5%	1/4W F
R57A	1-247-871-11	CARBON 47K 5%	1/4W
< RELAY >			
RY01	1-755-294-11	RELAY	
< VARIABLE RESISTOR >			
SRF01	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)	
SRF02	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)	
SRF03	1-241-768-11	RES, ADJ, CARBON 220K (BIAS CURRENT L)	
SRF04	1-241-768-11	RES, ADJ, CARBON 220K (BIAS CURRENT R)	
SRF11	1-238-600-11	RES, ADJ, CARBON 10K (REC LEVEL L)	
SRF12	1-238-600-11	RES, ADJ, CARBON 10K (REC LEVEL R)	

* A-2007-817-A FRONT BOARD, COMPLETE			

< CONNECTOR >			
CN09	1-785-783-11	CONNECTOR, FFC/FPC 19P	
< LED >			
LED1	8-719-072-76	LED SEL5E23C-TP15 (REV)	
LED2	8-719-072-76	LED SEL5E23C-TP15 (PLAY)	
LED3	8-719-072-76	LED SEL5E23C-TP15 (PAUSE)	
LED4	8-719-072-76	LED SEL5E23C-TP15 (STOP)	
LED5	8-719-304-83	LED SEL2410G (-10)	
LED6	8-719-304-83	LED SEL2410G (-5)	
LED7	8-719-304-83	LED SEL2410G (0)	
LED8	8-719-812-41	LED TLR124 (+3)	
LED9	8-719-812-41	LED TLR124 (+6)	
LED10	8-719-058-04	LED SEL5223S-TP15 (CD SYNC)	
LED11	8-719-058-04	LED SEL5223S-TP15 (REC)	
LED12	8-719-300-97	LED SEL2710K (PAUSE)	
LED13	8-719-311-60	LED SEL2810D-C (REW)	
LED14	8-719-311-60	LED SEL2810D-C (FF)	
LED15	8-719-304-83	LED SEL2410G (REV)	
LED16	8-719-304-83	LED SEL2410G (PLAY)	
LED17	8-719-304-83	LED SEL2410G (∞)	
LED18	8-719-812-41	LED TLR124 (TAPE)	

Ref. No.	Part No.	Description	Remarks
< RESISTOR >			
R215	1-247-827-11	CARBON 680 5%	1/4W
R216	1-249-417-11	CARBON 1K 5%	1/4W F
R217	1-247-835-11	CARBON 1.5K 5%	1/4W
R218	1-247-839-11	CARBON 2.2K 5%	1/4W
R219	1-247-843-11	CARBON 3.3K 5%	1/4W
R220	1-247-847-11	CARBON 4.7K 5%	1/4W
R222	1-247-827-11	CARBON 680 5%	1/4W
R223	1-249-417-11	CARBON 1K 5%	1/4W F
R224	1-247-835-11	CARBON 1.5K 5%	1/4W
R230	1-249-409-11	CARBON 220 5%	1/4W F
R231	1-249-409-11	CARBON 220 5%	1/4W F
R232	1-249-409-11	CARBON 220 5%	1/4W F
R233	1-249-409-11	CARBON 220 5%	1/4W F
< SWITCH >			
S1	1-572-647-11	SWITCH, KEY BOARD (STOP)	
S2	1-572-647-11	SWITCH, KEY BOARD (PAUSE)	
S3	1-572-647-11	SWITCH, KEY BOARD (PLAY)	
S4	1-572-647-11	SWITCH, KEY BOARD (REV)	
S5	1-572-647-11	SWITCH, KEY BOARD (CD SYNC)	
S6	1-572-647-11	SWITCH, KEY BOARD (REC)	
S9	1-572-647-11	SWITCH, KEY BOARD (FF)	
S10	1-572-647-11	SWITCH, KEY BOARD (REW)	

* 1-672-011-11 MODE CONTROL BOARD			

3-017-287-01	3-017-287-01	TERMINAL (RP)	
< DIODE >			
D001	8-719-911-19	DIODE 1N4148M	
D002	8-719-911-19	DIODE 1N4148M	
< IC >			
IC001	3-017-289-01	PLATE, ROTARY DETECTION	
< PLUNGER SOLENOID >			
PM001	3-017-292-01	SOLENOID	
< SWITCH >			
S001	3-017-290-01	DETECT, SWITCH (FWD REC)	
S002	3-017-290-01	DETECT, SWITCH (HALF)	
S003	3-017-290-01	DETECT, SWITCH (CrO2)	
S004	3-017-290-01	DETECT, SWITCH (METAL)	
S005	3-017-290-01	DETECT, SWITCH (REV REC)	
S006	3-017-291-01	MODE, SWITCH (MODE)	
< RESISTOR >			
R001	1-247-862-11	CARBON 20K 5%	1/4W

O/C SW

PANEL SW

POWER

POWER TRANS

Ref. No.	Part No.	Description	Remarks
*	A-2007-823-A	O/C SW BOARD, COMPLETE *****	
		< SWITCH >	
S8	1-572-647-11	SWITCH, KEY BOARD (EJECT)	

*	A-2007-824-A	PANEL SW BOARD, COMPLETE *****	
		< SWITCH >	
S15	1-771-612-11	SWITCH, DETECTION (PANEL SW)	

*	A-2007-820-A	POWER BOARD, COMPLETE *****	
		< CAPACITOR >	
C31	1-162-290-31	CERAMIC 470PF 10% 50V	
C32	1-162-290-31	CERAMIC 470PF 10% 50V	
C48	1-126-925-11	ELECT 470uF 20% 10V	
C49	1-126-925-11	ELECT 470uF 20% 10V	
C50	1-164-159-11	CERAMIC 0.1uF 50V	
C51	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C52	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C53	1-164-159-11	CERAMIC 0.1uF 50V	
C54	1-126-943-11	ELECT 2200uF 20% 25V	
C55	1-126-943-11	ELECT 2200uF 20% 25V	
C56	1-126-943-11	ELECT 2200uF 20% 25V	
C57	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C58	1-126-926-11	ELECT 1000uF 20% 10V	
C59	1-126-960-11	ELECT 1uF 20% 50V	
C84	1-102-129-00	CERAMIC 10000PF 10% 50V	
C85	1-102-129-00	CERAMIC 10000PF 10% 50V	
C86	1-102-129-00	CERAMIC 10000PF 10% 50V	
C87	1-102-129-00	CERAMIC 10000PF 10% 50V	
C90	1-164-159-11	CERAMIC 0.1uF 50V	
C91	1-164-159-11	CERAMIC 0.1uF 50V	
C90A	1-124-261-00	ELECT 10uF 20% 50V	
		< CONNECTOR >	
* CN03	1-566-856-11	SOCKET, CONNECTOR 5P (SYSTEM CONTROL)	
CN04	1-785-781-11	HEADER, PIN 8P	
CN06	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN07	1-785-782-11	HEADER, PIN 10P	
* CN15	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN12A	1-785-780-11	HEADER, PIN 13P	
		< DIODE >	
D07	8-719-991-33	DIODE 1SS133T-77	
D12	8-719-031-85	DIODE 1N4002L	
D17	8-719-073-77	DIODE W005M	
D22	8-719-031-85	DIODE 1N4002L	
D23	8-719-031-85	DIODE 1N4002L	
D24	8-719-031-85	DIODE 1N4002L	
D25	8-719-031-85	DIODE 1N4002L	
D36	8-719-991-33	DIODE 1SS133T-77	
D37	8-719-991-33	DIODE 1SS133T-77	

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC04	8-759-288-53	IC LA5617	
IC10	8-759-604-35	IC M5F78M05L	
IC11	8-759-549-81	IC P82B715TD.112	
		< JACK >	
JK01	1-785-822-11	JACK, PIN (TAPE)	
		< TRANSISTOR >	
Q20	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q37	8-729-029-68	TRANSISTOR DTC114TSA	
Q39	8-729-029-68	TRANSISTOR DTC114TSA	
Q40	8-729-900-63	TRANSISTOR DTA124ES	
Q41	8-729-900-63	TRANSISTOR DTA124ES	
Q42	8-729-012-83	TRANSISTOR 2SK679A	
Q43	8-729-012-83	TRANSISTOR 2SK679A	
Q05A	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q06A	8-729-231-55	TRANSISTOR 2SC2878-AB	
		< RESISTOR >	
R26	1-247-879-11	CARBON 100K 5% 1/4W	
R27	1-247-879-11	CARBON 100K 5% 1/4W	
R35	1-247-855-11	CARBON 10K 5% 1/4W	
R42	1-247-839-11	CARBON 2.2K 5% 1/4W	
R43	1-247-839-11	CARBON 2.2K 5% 1/4W	
R115	1-247-855-11	CARBON 10K 5% 1/4W	
R119	1-247-713-11	CARBON 1K 5% 1/4W	F
R120	1-247-855-11	CARBON 10K 5% 1/4W	
R121	1-247-855-11	CARBON 10K 5% 1/4W	
R122	1-247-855-11	CARBON 10K 5% 1/4W	
R123	1-249-417-11	CARBON 1K 5% 1/4W	F
R124	1-247-879-11	CARBON 100K 5% 1/4W	
R125	1-247-855-11	CARBON 10K 5% 1/4W	
R126	1-247-855-11	CARBON 10K 5% 1/4W	
R213	1-247-863-11	CARBON 22K 5% 1/4W	
R302	1-247-879-11	CARBON 100K 5% 1/4W	
R303	1-249-417-11	CARBON 1K 5% 1/4W	F
R304	1-249-417-11	CARBON 1K 5% 1/4W	F
R305	1-247-879-11	CARBON 100K 5% 1/4W	
R306	1-247-807-11	CARBON 100 5% 1/4W	
R307	1-247-807-11	CARBON 100 5% 1/4W	
R35A	1-249-417-11	CARBON 1K 5% 1/4W	F
R38A	1-247-847-11	CARBON 4.7K 5% 1/4W	
R39A	1-247-847-11	CARBON 4.7K 5% 1/4W	

*	1-672-764-11	POWER TRANS BOARD *****	
		< TRANSFORMER >	
△ T01	1-433-657-11	TRANSFORMER, POWER	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks
*	1-672-765-11	VR BOARD *****	
		< VARIABLE RESISTOR >	
VR02	1-225-749-11	RES, VAR, CARBON 50K/50K (REC LEVEL)	

		MISCELLANEOUS *****	
15	1-773-128-11	WIRE (FLAT TYPE) (19 CORE)	
△63	1-555-750-00	CORD, POWER	
△65	1-526-794-11	OUTLET, AC	
HRPE901	3-017-303-01	HEAD (REC/PLAY/ERASE)	
M901	3-017-239-01	PULLEY (MOTOR) (LOADING)	
M902	3-017-259-01	PULLEY (MOTOR)(CAPSTAN REEL)	
S901	3-017-238-01	LIMITTER (SW MSS-8B)(OPEN)	
S902	3-017-238-01	LIMITTER (SW MSS-8B)(CLOSE)	

		ACCESSORIES & PACKING MATERIALS *****	
	1-790-441-11	CABLE, IC CONNECTOR 5P (SYSTEM CABLE)	
	3-020-441-01	BRACKET (PATCH CORD)(AUDIO CABLE)	
	3-864-773-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-864-773-21	MANUAL, INSTRUCTION (FRENCH/SPANISH) (AEP, UK, E, SP)	
	3-864-773-31	MANUAL, INSTRUCTION (GERMAN/DUTCH/ SWEDISH/ITALIAN/PORTUGUESE) (AEP, UK)	
	3-864-773-41	MANUAL, INSTRUCTION (CHINESE) (E, HK, SP)	

Ref. No.	Part No.	Description	Remarks
		***** HARDWARE LIST *****	
#1	7-685-534-19	SCREW +B 2.6 × 8 (TYPE2)	
#3	7-685-533-19	SCREW +B 2.6 × 6 (TYPE2)	
#4	7-685-535-19	SCREW +B 2.6 × 10 (TYPE2)	
#6	7-685-547-19	SCREW +B 3 × 10 (TYPE2)	
#7	7-682-903-11	SCREW +PWH 3 × 6	
#8	7-685-645-79	SCREW +P 3 × 6 TYPE2 NON-SLIT	
#9	7-685-146-11	SCREW +P 3 × 8 TYPE2 NON-SLIT	
#10	7-685-132-19	SCREW +P 2.6 × 5 TYPE2 NON-SLIT	
#11	7-671-157-01	BALL, STAINLESS (5 DIA)	
#12	7-627-551-18	SCREW,PRECISION +P 1.4 × 2	
#13	7-685-105-19	SCREW +P 2 × 8 TYPE2 NON-SLIT	
#14	7-621-772-10	SCREW +P 2 × 4	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

