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	4-track 2-channel stereo
Frequency response	(DOLBY NR OFF) 30 – 14,000 Hz (±3 dB), using Sony TYPE I cassettes 30 – 15,000 Hz (±3 dB), using Sony TYPE II cassettes 30 – 15,000 Hz (±3 dB), using Sony TYPE IV cassettes
Input	TAPE IN (phono jacks): impedance 47 kilohms
Output	TAPE OUT (phono jacks): voltage 500 mV impedance 47 kilohms

General

Power requirements	
European countries model:	220 – 230 V AC, 50/60 Hz
Other models:	220 – 240 V AC, 50/60 Hz
Power consumption	12 W
Dimensions	Approx. 190 × 91 × 315 mm (w/h/d) incl. projecting parts and controls
Mass	Approx. 3.2 kg
Supplied accessories:	Audio connecting cords (2) System cable (1)

Design and specifications are subject to change without notice.

STEREO CASSETTE DECK

MICROFILM

SONY®

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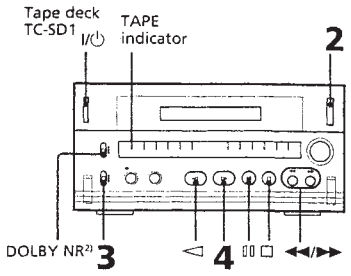
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ 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.

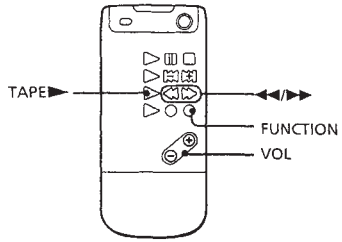
Playing a tape

You can use any type of tape, TYPE I (normal), TYPE II (CrO_2) or TYPE IV (metal) since the tape deck automatically detects the tape type (ATS[1]).

[1] ATS: Automatic Tape Selection.



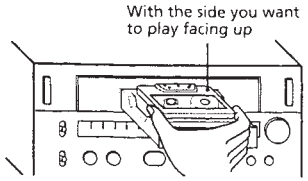
The remote supplied with the CMT-SD1/SD3



[2] This tape deck is able to switch between Dolby B-type and C-type noise reduction systems.

1 Press I/⏻ on the CMT-SD1/SD3 to turn on the CMT-SD1/SD3 component system.
The tape deck turns on automatically.

2 Press ⏏ on the tape deck to open th cassette tray and insert a recorded tape.
Press ⏏ again to close the cassette tray.



3 Set DIRECTION to ⇄ to play one side, ⮌ to play both sides once, and ⮌ [3] to play both sides continuously.

4 Press ▷.
Press ◁ to play the bottom side.
The function switches to "TAPE" automatically, then the tape starts playing.

[3] The tape deck stops automatically after repeating the sequence five times.

To play a tape using the CMT-SD1/SD3 component system

Do the following operations in step 4;

1 Press FUNCTION until "TAPE" appears in the display.
2 Press TAPE▶ on the remote.
To play the bottom side, press TAPE▶ again on the remote.

Other operations

To	Press
Stop playing	□ (or ■*).
Pause	⏸ (or ❚❚*). Press again to resume playing.
Fast-forward	□, then ▶▶ (or ▶▶*) for the top side. □, then ◀◀ (or ◀◀*) for the bottom side.
Rewind	□, then ◀◀ (or ◀◀*) for the top side. □, then ▶▶ (or ▶▶*) for the bottom side.
Find the succeeding track (AMS**)	▶▶ (or ▶▶*) for the top side. ◀◀ (or ◀◀*) for the bottom side.
Find the preceding track (AMS**)	◀◀ (or ◀◀*) for the top side. ▶▶ (or ▶▶*) for the bottom side.
Remove the cassette	⏏ on the tape deck.
Adjust the volume	Turn VOLUME on the CMT-SD1/SD3 (or VOL ⊕/⊖*).

* Use the remote supplied with the CMT-SD1/SD3.
**The Automatic Music Sensor (AMS) feature detects a blank space of more than four seconds between tracks to locate tracks quickly.

Tips

- When you press I/⏻ on the tape deck while the CMT-SD1/SD3 is power on, only the tape deck turns on/off. Press I/⏻ on the CMT-SD1/SD3 to turn on the CMT-SD1/SD3 component system.
- The TAPE indicator lights up in red when a cassette is inserted and goes off when no cassette is inserted.
- You can switch from another source to the tape deck just by pressing ▷ or ◁ (**Automatic Source Selection**).
- To start playing automatically from the beginning of the tape after fast winding (**Auto Play**), press ▷ while holding down ◀◀ (for the top side) or press ◁ while holding down ▶▶ (for the bottom side).
- When listening to tapes recorded in Dolby NR, set DOLBY NR to "B" or "C".
- Using the timer function on the CMT-SD1/SD3, you can wake up to music at a preset time. For details, refer to "Wake up to music" in the CMT-SD1/SD3 component system Operating Instructions. When you set the Wake-up timer, DOLBY NR must be set on the tape deck.

Note

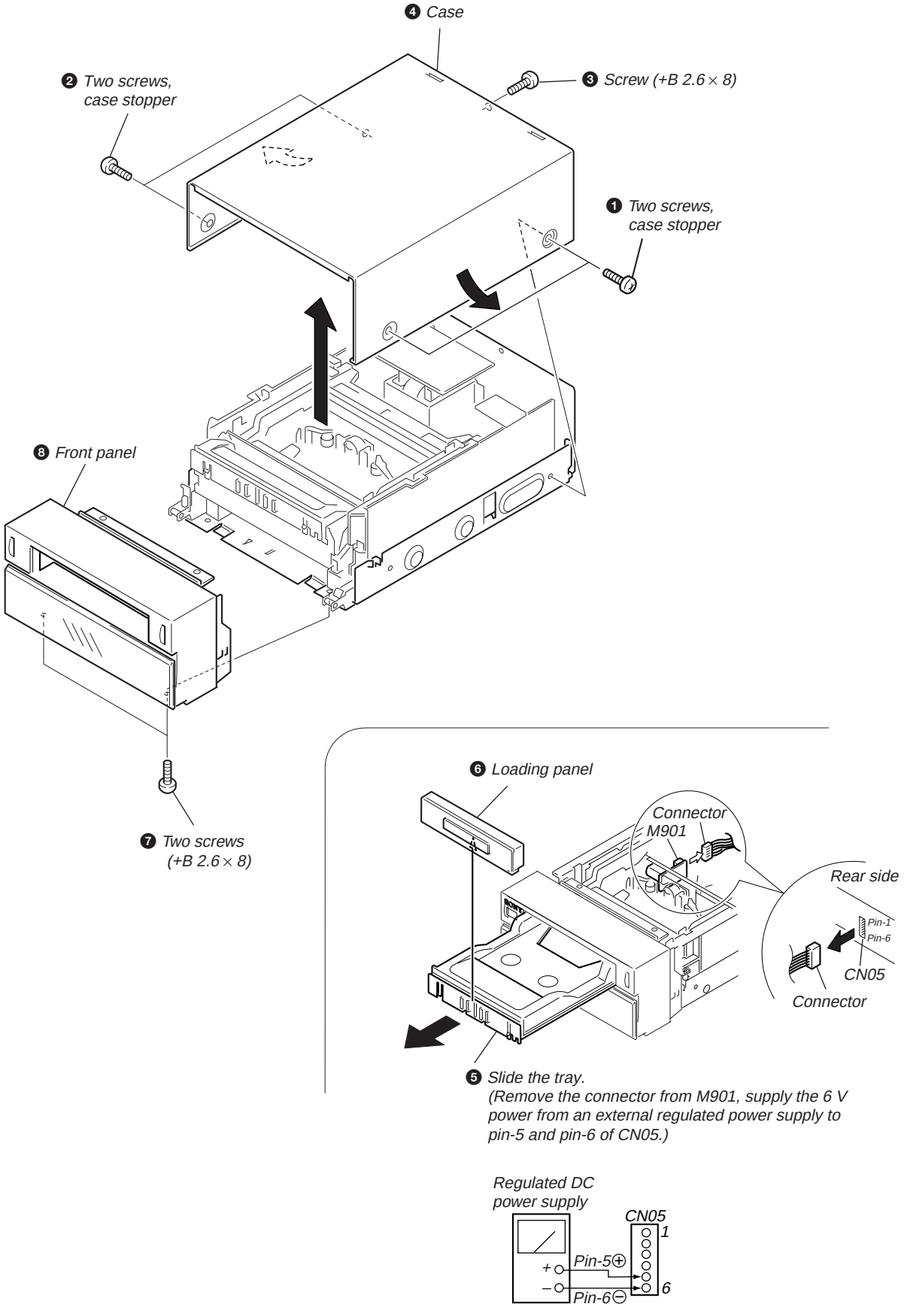
The AMS feature may not work in the following cases:

— the blank space between tracks is four seconds or less.
— the sound source recorded on the right channel is different from that on the left channel as with a KARAOKE tape.
— low volume or low sound continues for a long time.
— the TV is too close to the tape deck.

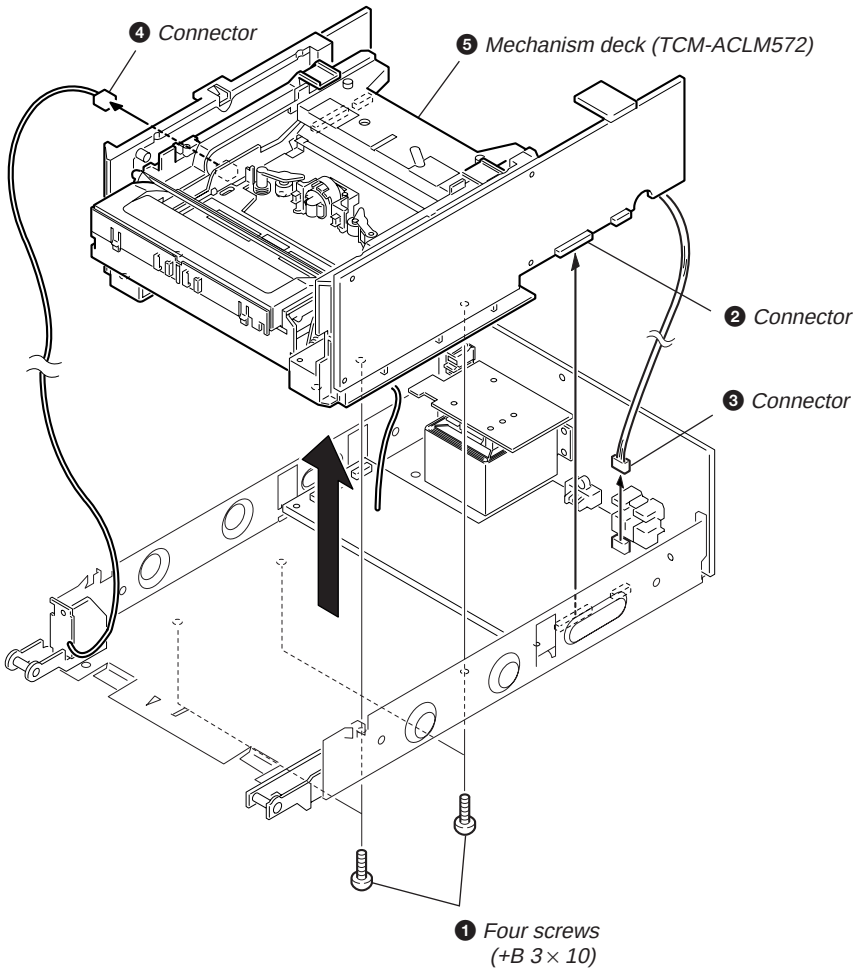
SECTION 2
DISASSEMBLY

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

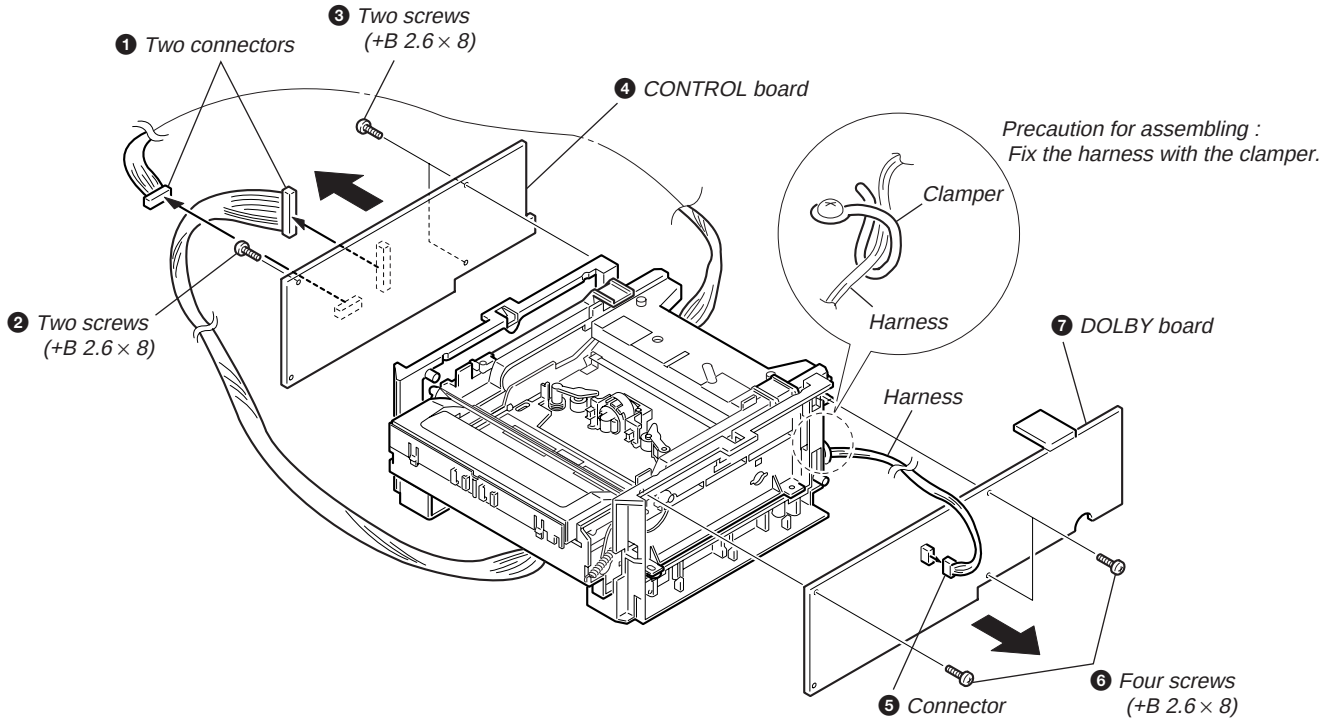
2-1. CASE, FRONT PANEL



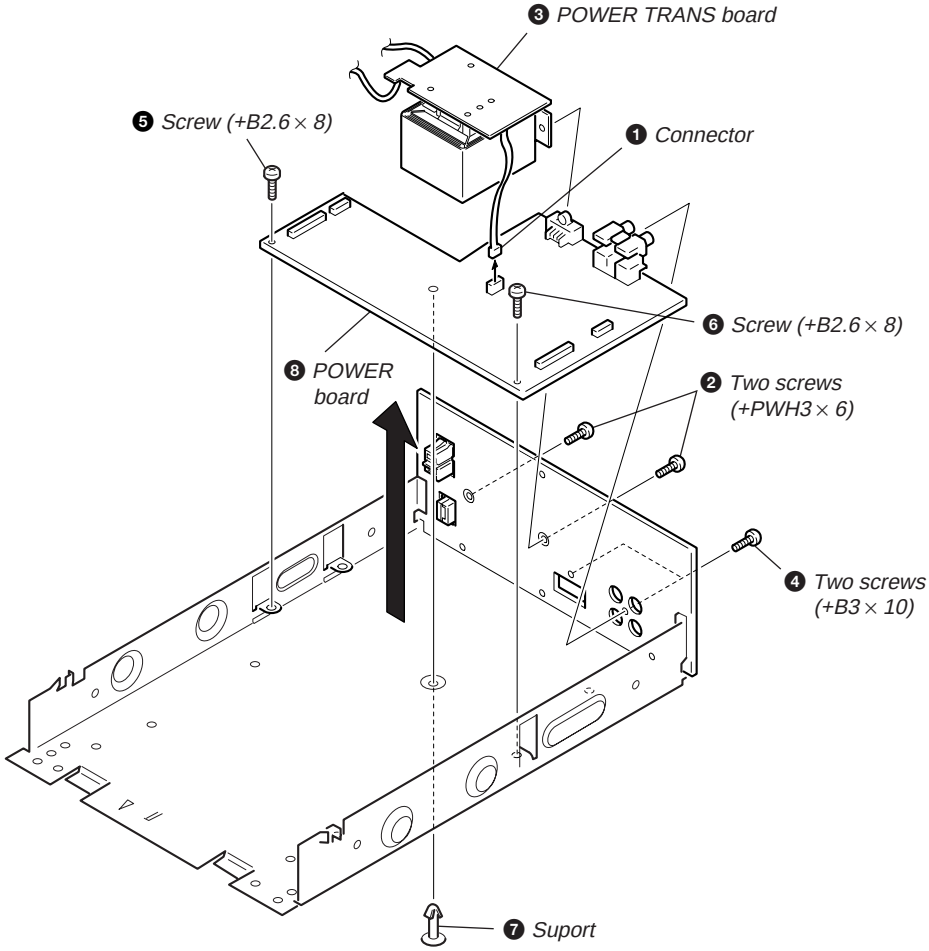
2-2. MECHANISM DECK (TCM-ACLM572)



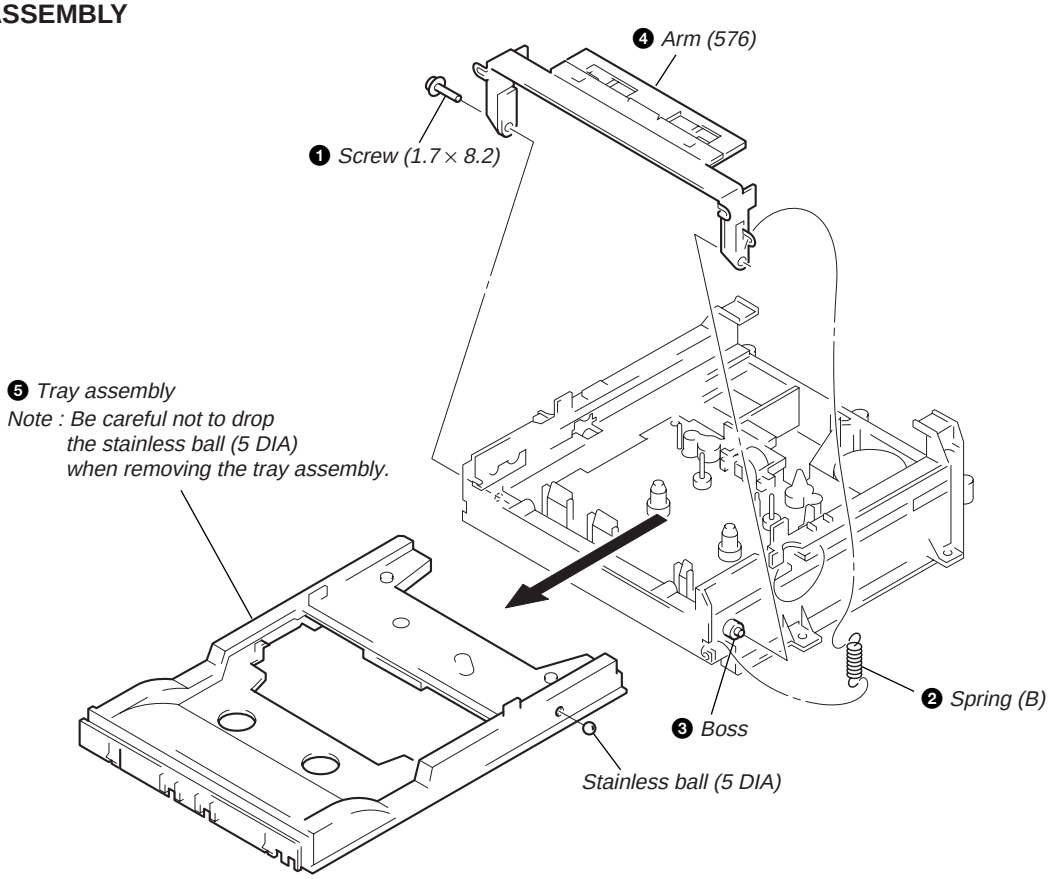
2-3. CONTROL BOARD, DOLBY BOARD



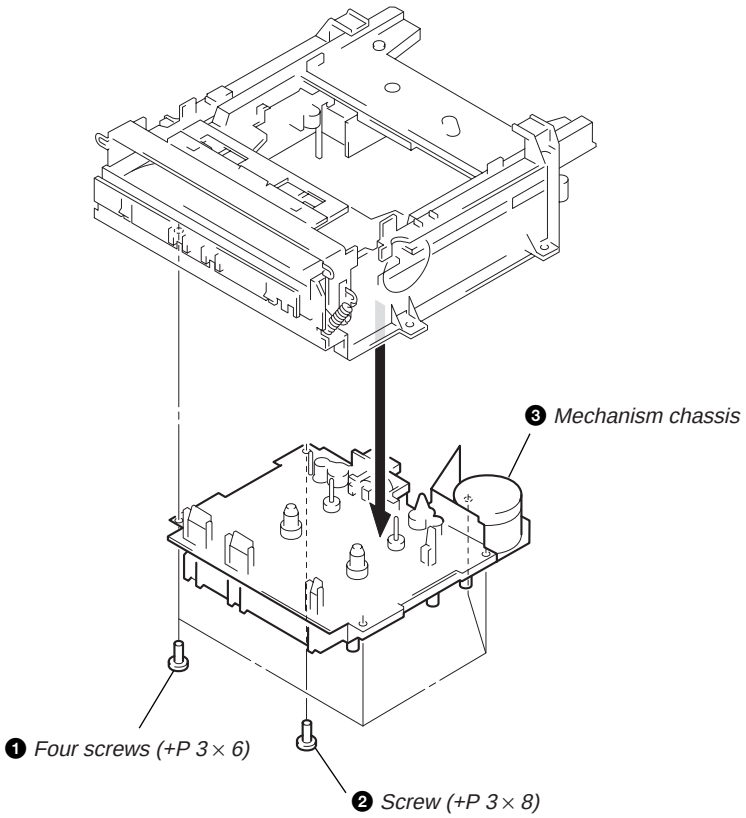
2-4. POWER TRANS BOARD, AC SELECT SW BOARD, POWER BOARD



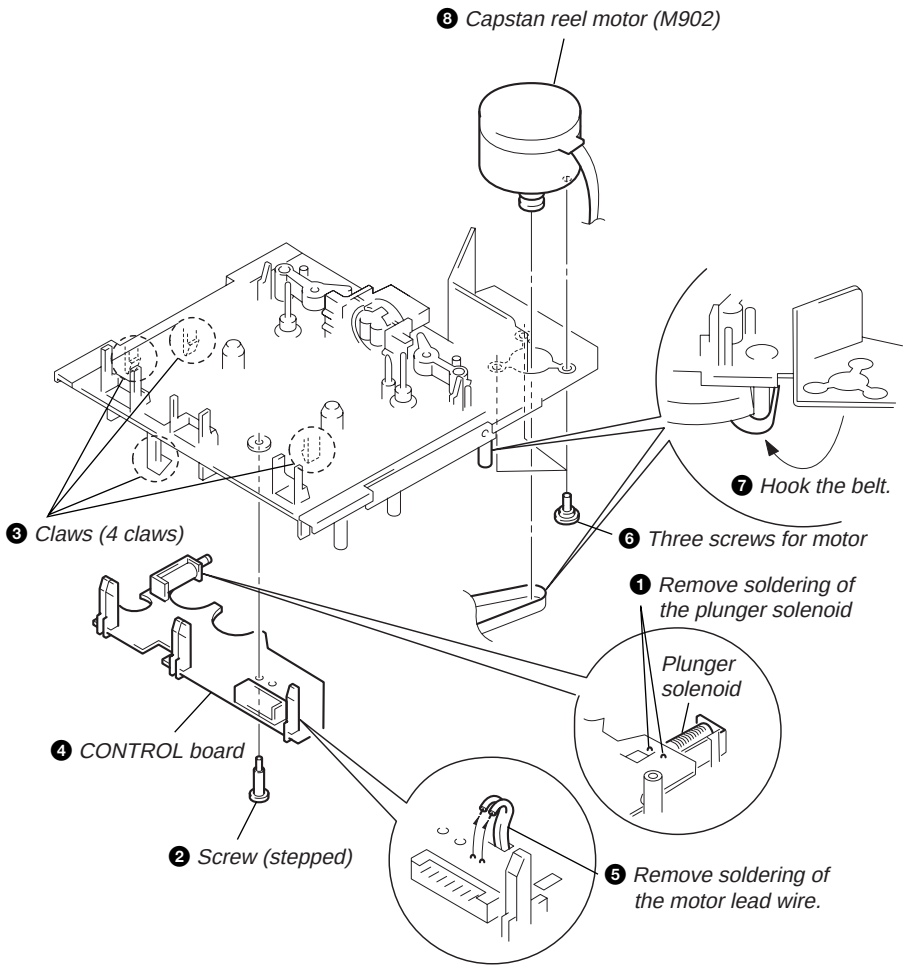
2-5. TRAY ASSEMBLY



2-6. MECHANISM CHASSIS BLOCK

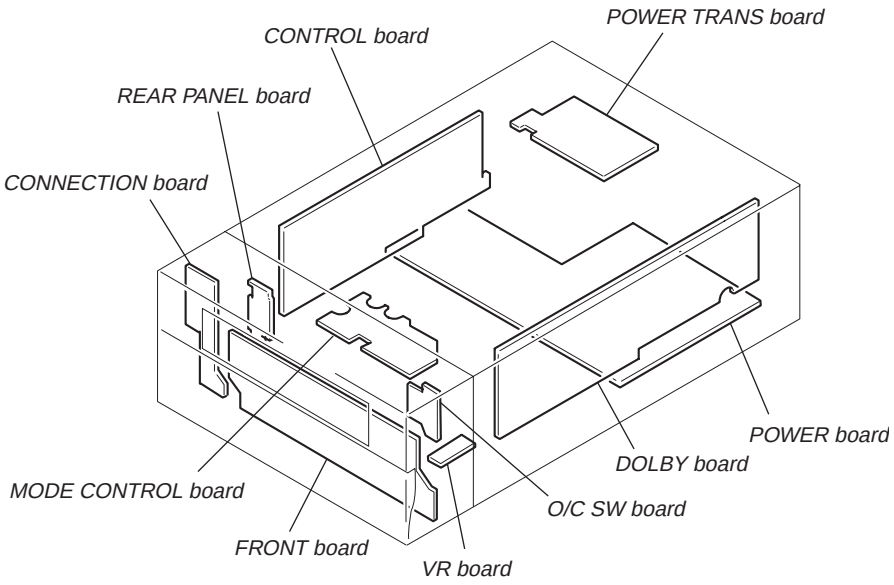


2-7. CAPSTAN REEL MOTOR (M902)

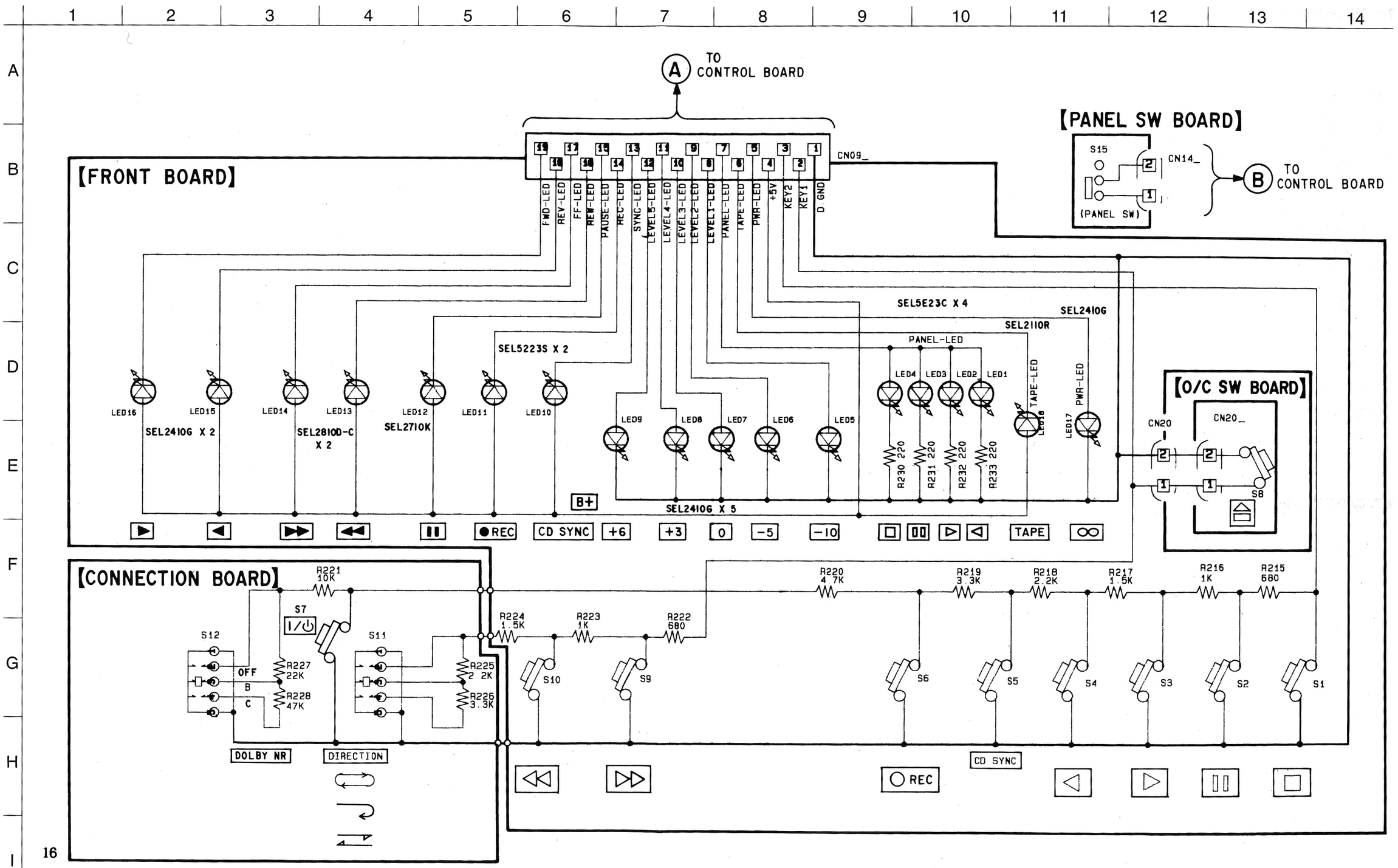


SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. SCHEMATIC DIAGRAM — DISPLAY SECTION —



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Note on Schematic Diagram:

- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- [ ] : panel designation.

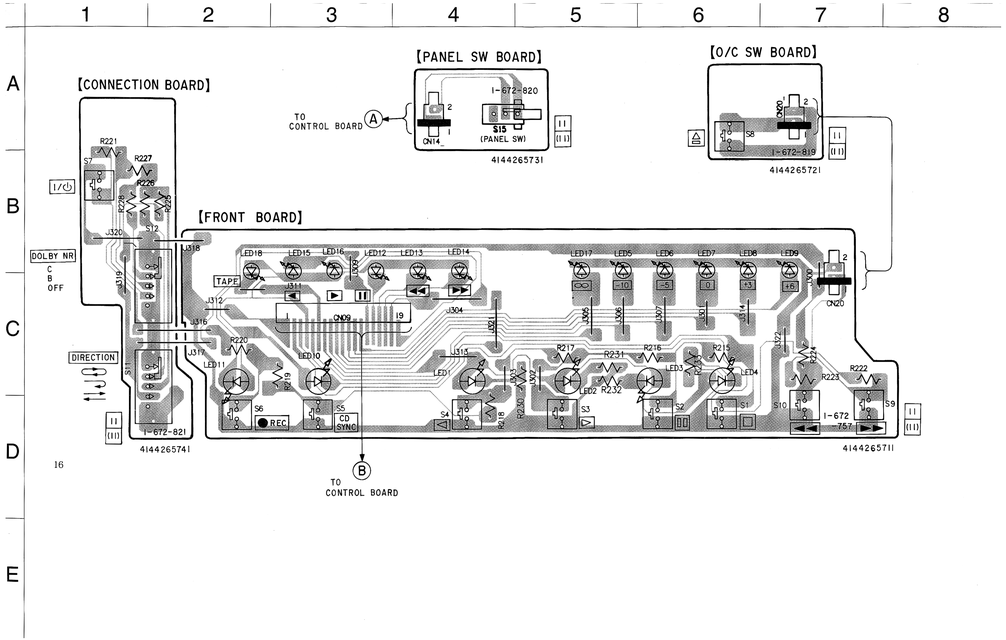
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- [B+] : B+ Line.

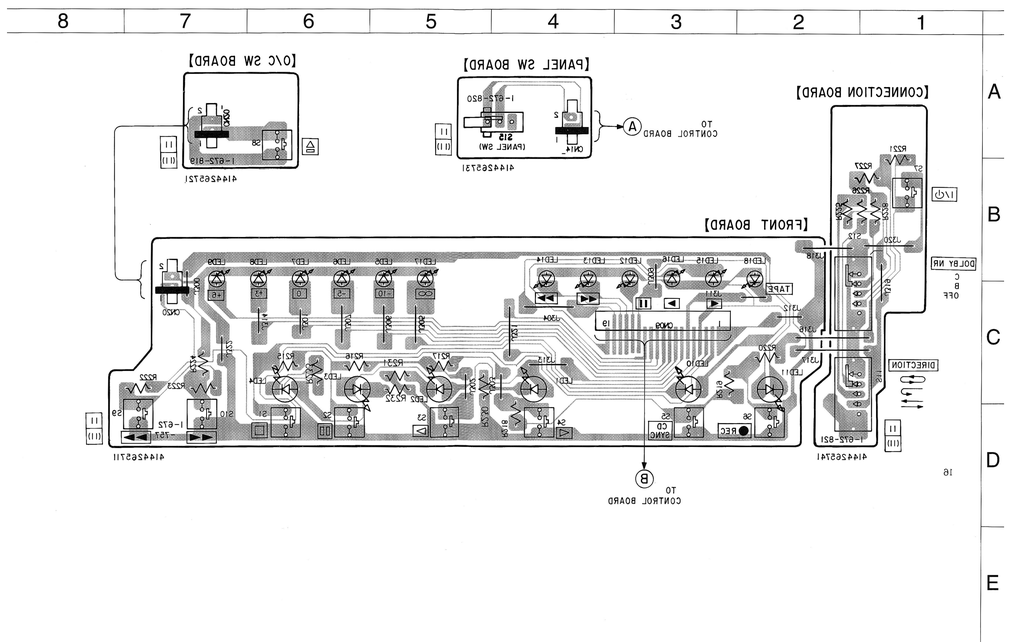
3-3. PRINTED WIRING BOARD — DISPLAY SECTION —

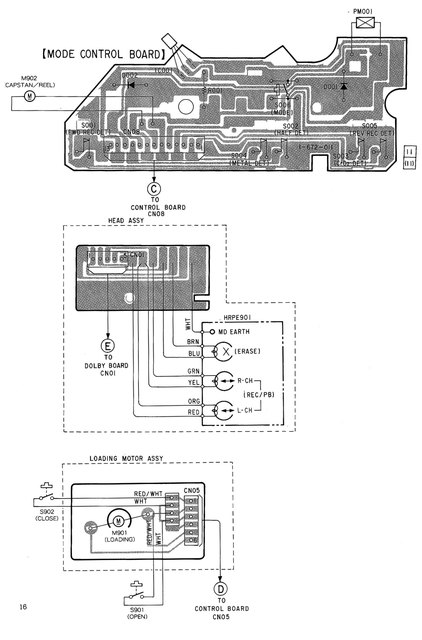
COMPONENT SIDE

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



CONDUCTOR SIDE



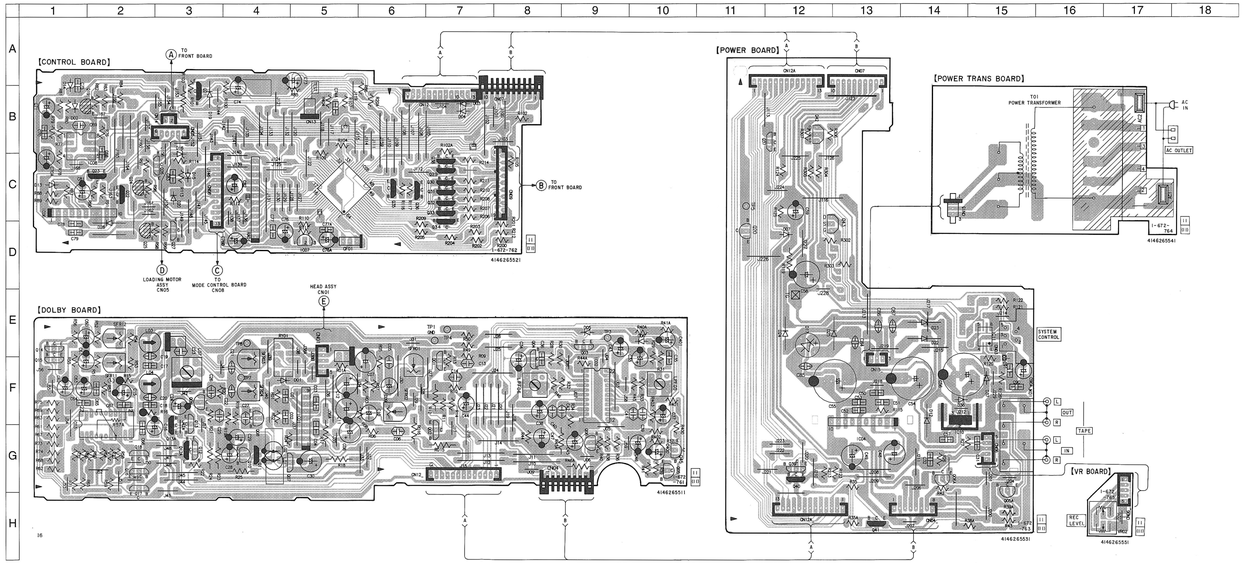


Note on Printed Wiring Board:

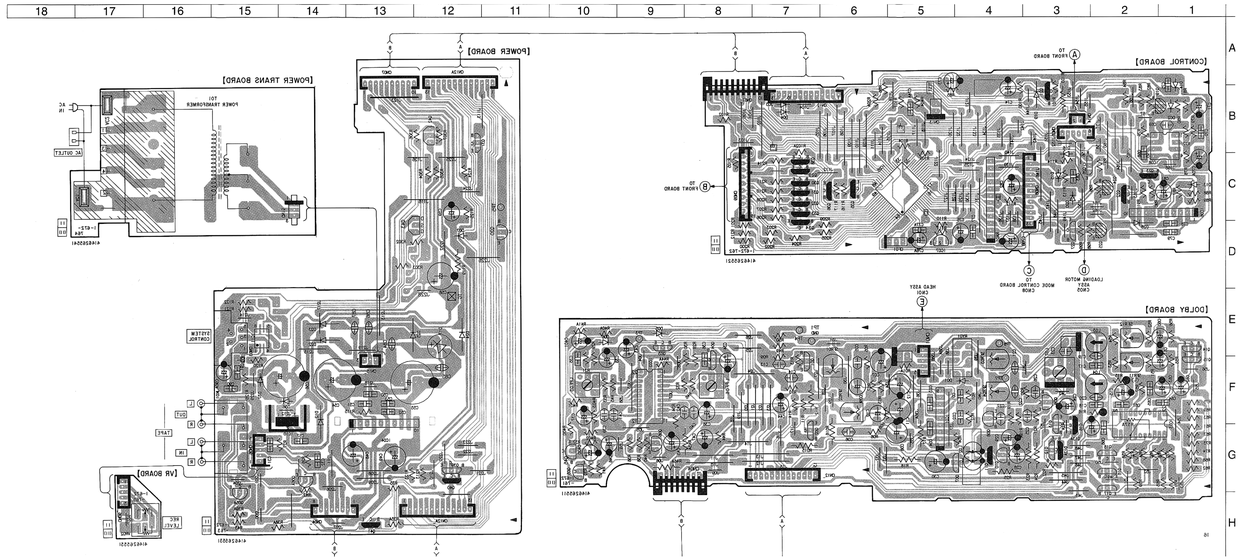
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern of the rear side.

3-4. PRINTED WIRING BOARD — MAIN SECTION —

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



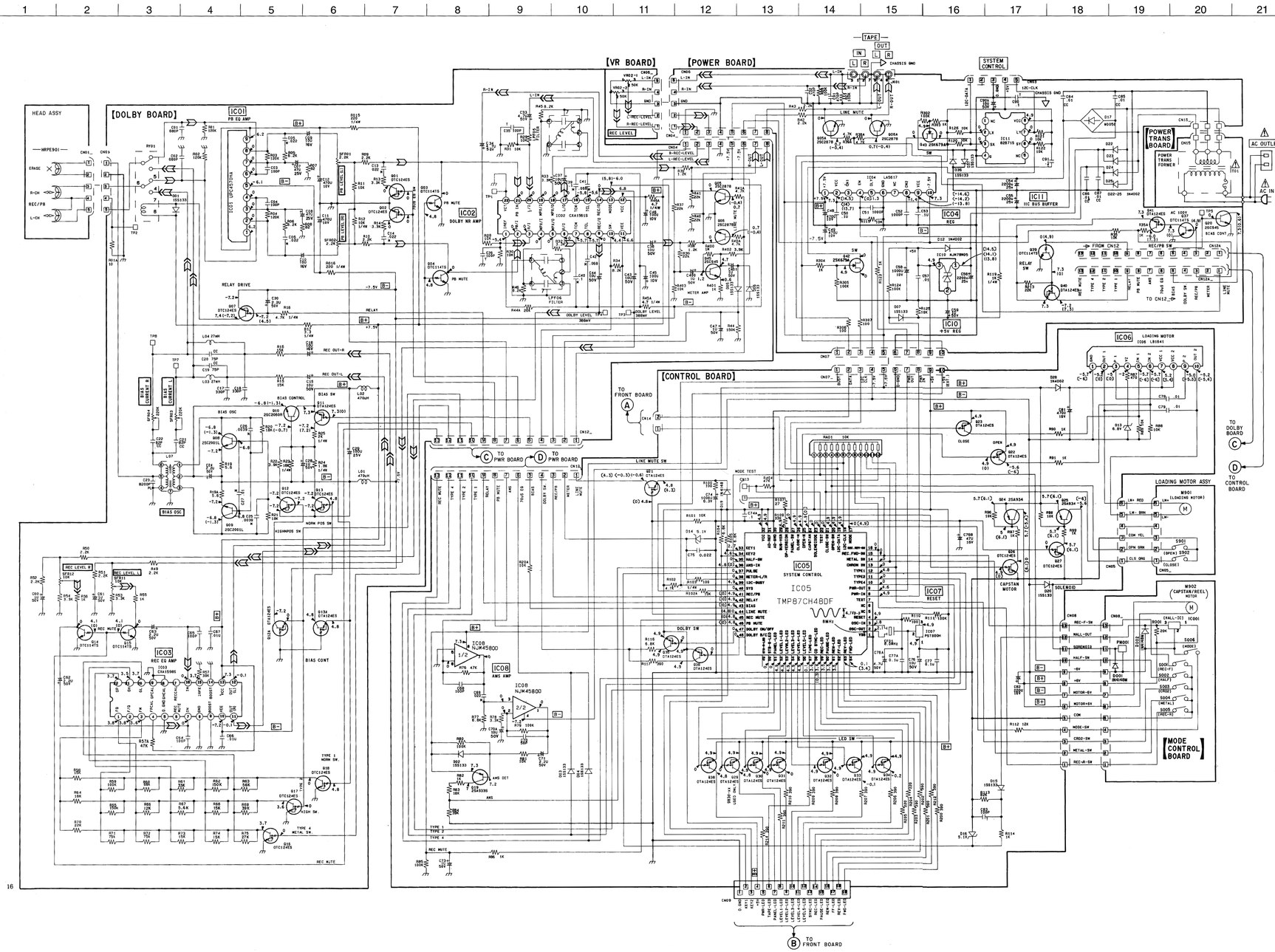
CONDUCTOR SIDE



Note on Printed Wiring Board:
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern of the rear 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
IC10	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:

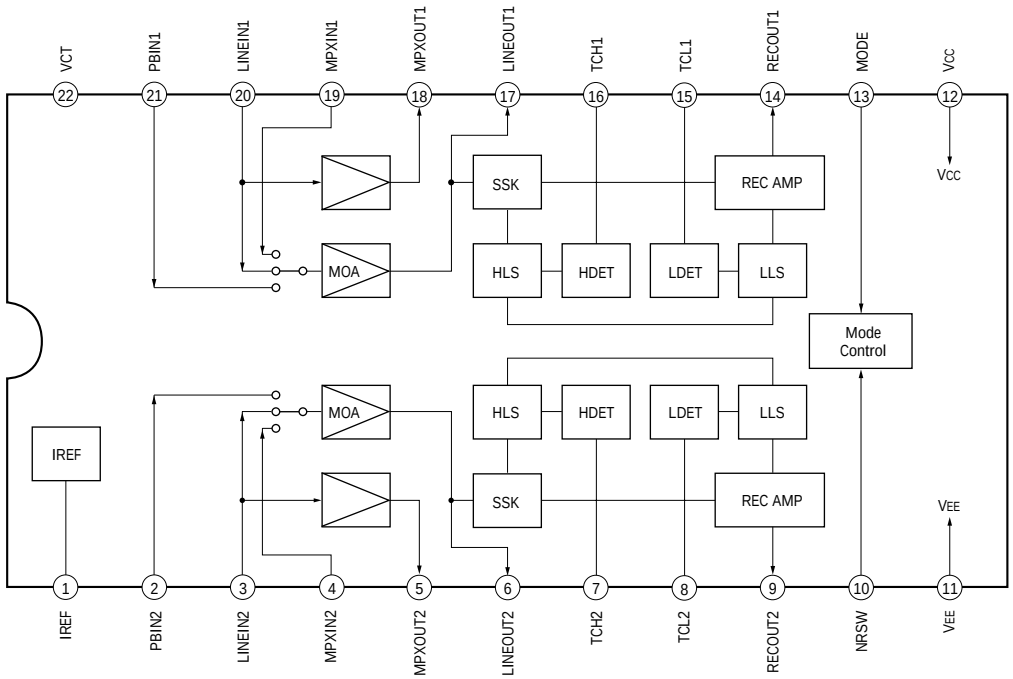
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.

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

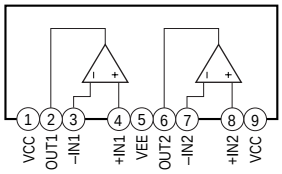
- B+ : B+ Line.
- B− : B− Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : REC/PB
  ( ) : REC
  < > : PB
  [ ] : STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due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

3-6. IC BLOCK DIAGRAMS

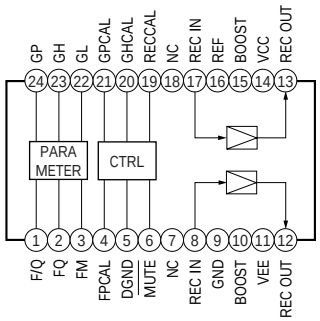
IC02 CXA1561S



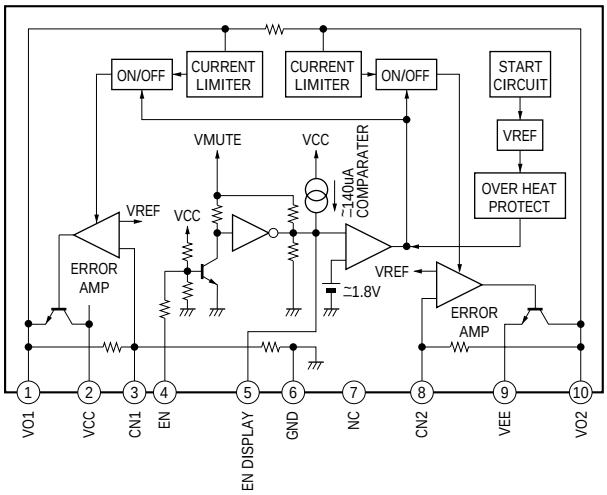
IC01 µPC4570HA



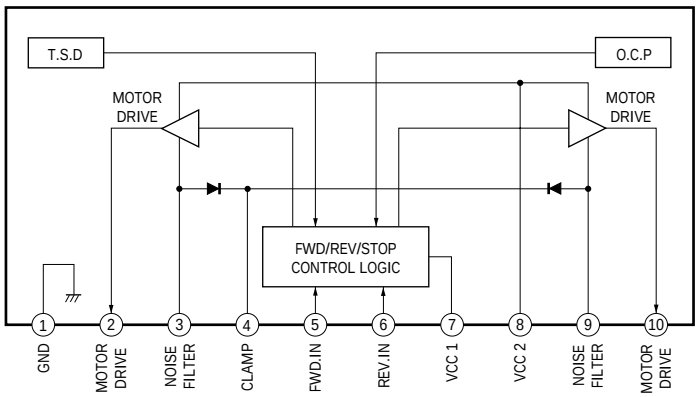
IC03 CXA1598S



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	12C clock input/output
19	I2C-DATA	I/O	12C 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

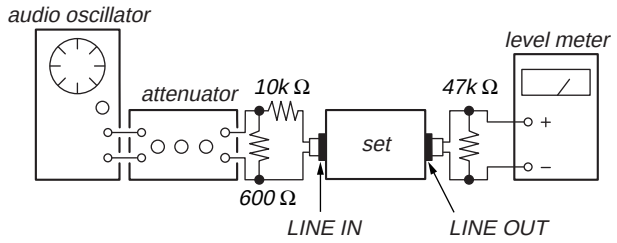
Precaution

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

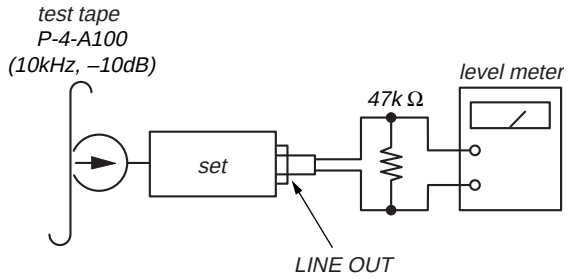
Type	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	PB Level Adjustment

Record/Playback Head Azimuth Adjustment

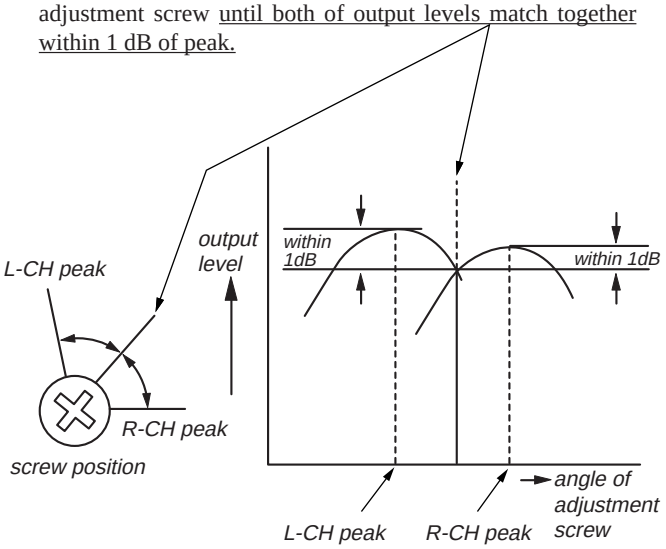
Note: • Perform this adjustment after the head is turned around. (If the head is positioned in the FWD direction, turn around the head and start adjustment from the REV mode as described below.)
* When the azimuth adjustment is performed, the azimuth adjustment screw must end up with rotation of tightening direction (i.e. clockwise direction).

Adjustment procedure :

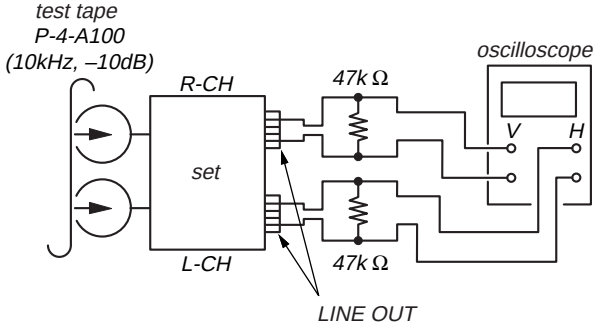
1. Mode: REV playback



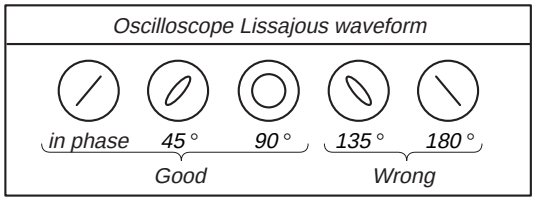
2. Turn the azimuth adjustment screw for the maximum output level of L-CH and R-CH.
   If the peak levels do not match for L-CH and R-CH, turn the adjustment screw until both of output levels match together within 1 dB of peak.



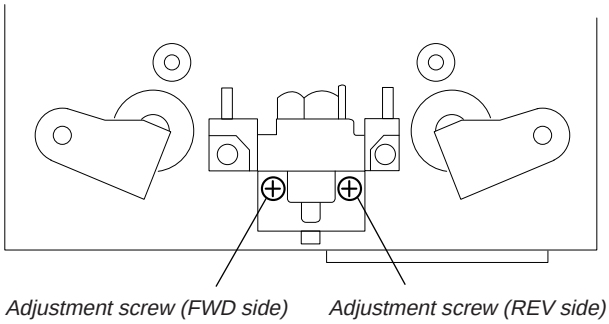
3. Phase Check
   Mode: REV playback



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.



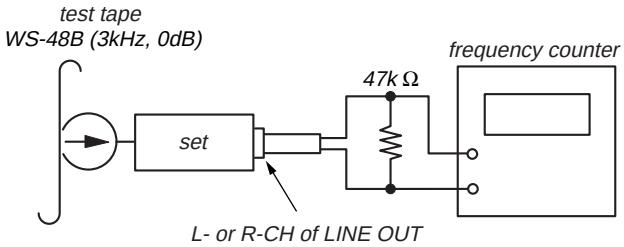
Adjustment Location:



Tape Speed Adjustment

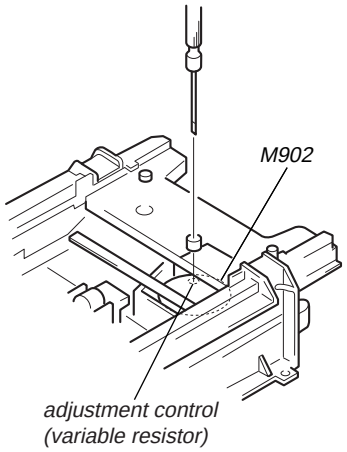
Procedure :

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 ± 90 Hz.
3. Confirm that the tape speed deviation between tape top and tape end is within 3%.

Adjustment location :



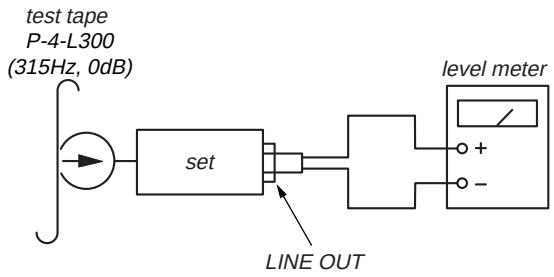
Sample Value of Wow and flutter

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.)

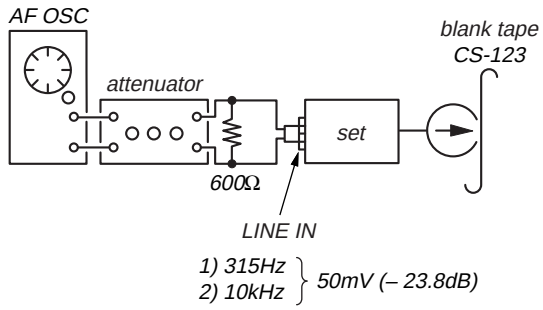
Record BIAS Adjustment

Setting :

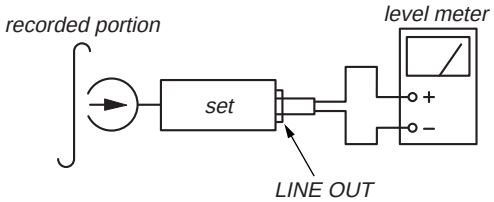
- The REC LEVEL control must be positioned at the standard record level position. (Refer to page 29.)

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 dB ± 0.5 dB when 315 Hz is the reference.
   Adjustment Location : DOLBY board (Refer to page 32.)

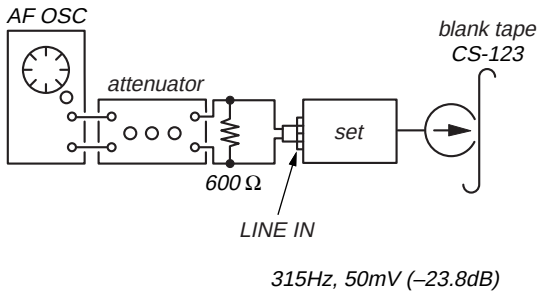
Record Level Adjustment

Setting :

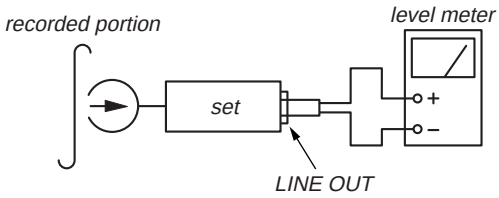
- The REC LEVEL control must be positioned at the standard record level position. (Refer to page 29.)

Procedure :

1. Record



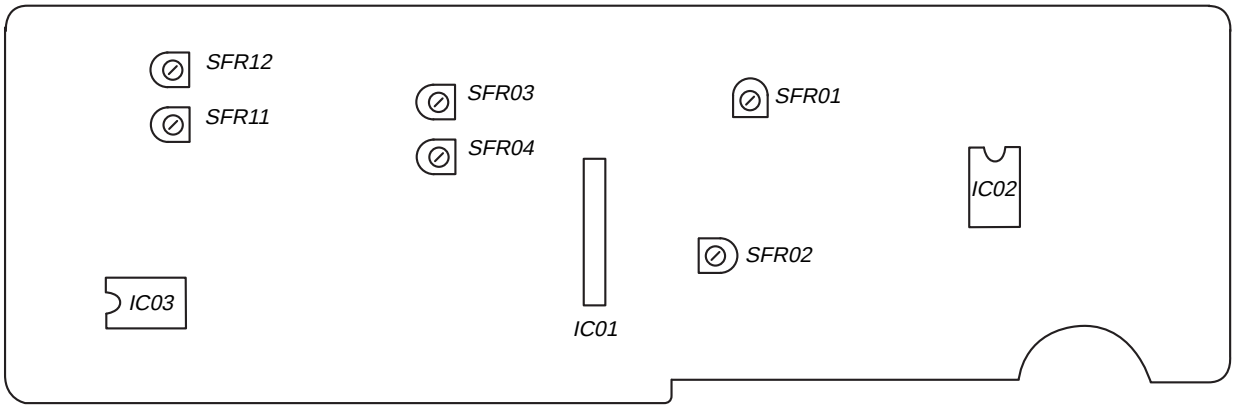
2. Playback



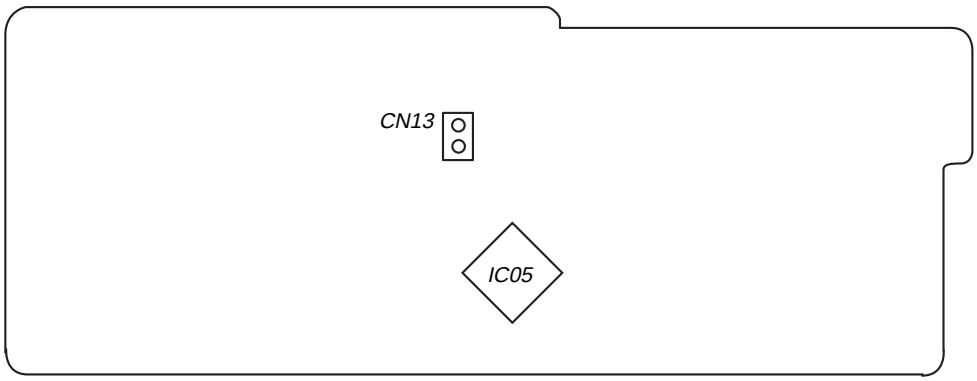
3. Reproduce the portion of tape which is recorded in step 1. Confirm that the playback level stays within the specified range of the Adjustment Level.
4. If the playback level is outside the specified range, adjust the SFR11 (L-CH) and SFR12 (R-CH), and repeat steps 1 to 3 until the specified range is satisfied.
   Adjustment Level : -23.8 dB ± 0.5 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)



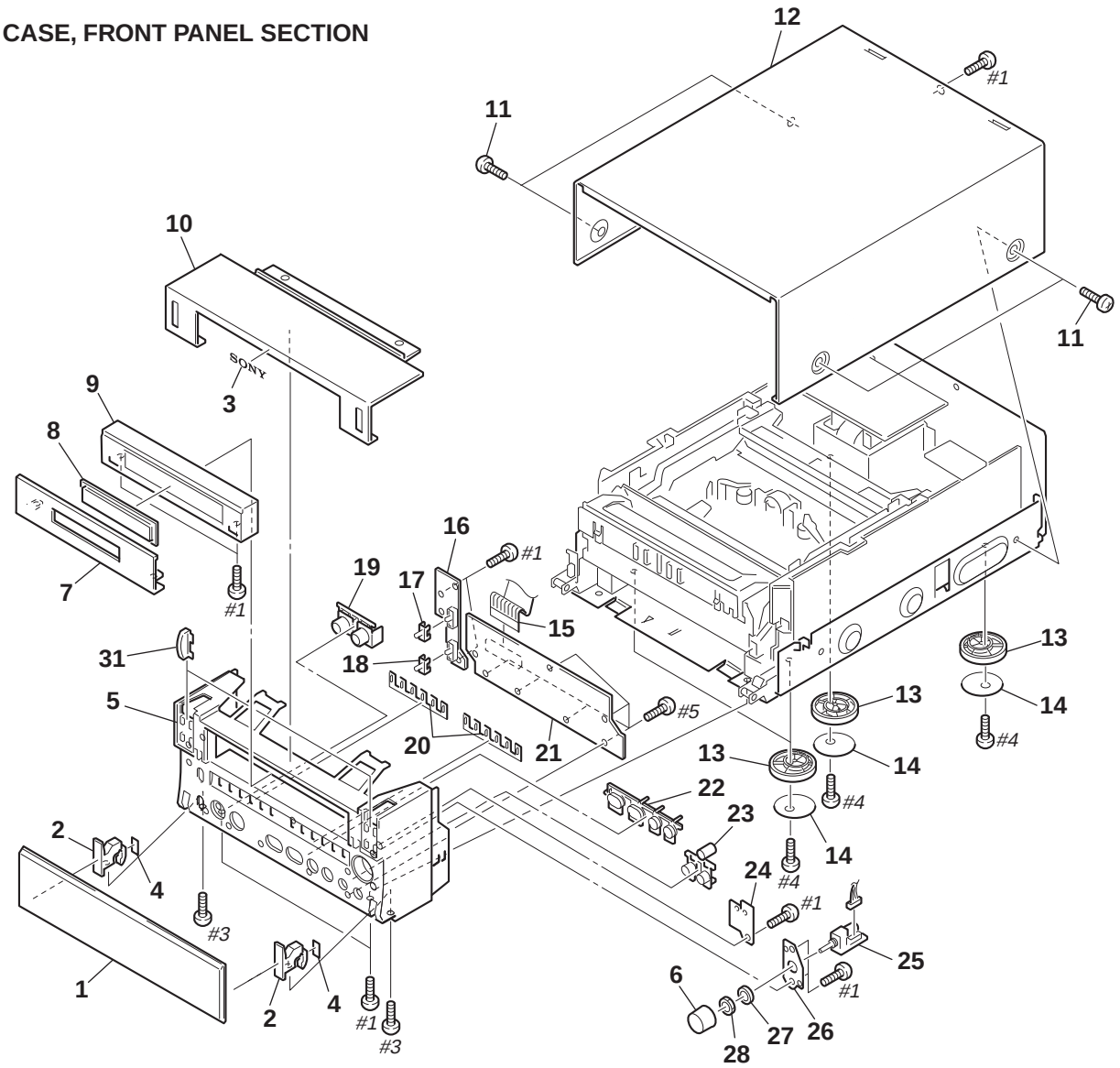
SECTION 6
EXPLODED VIEWS

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 ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

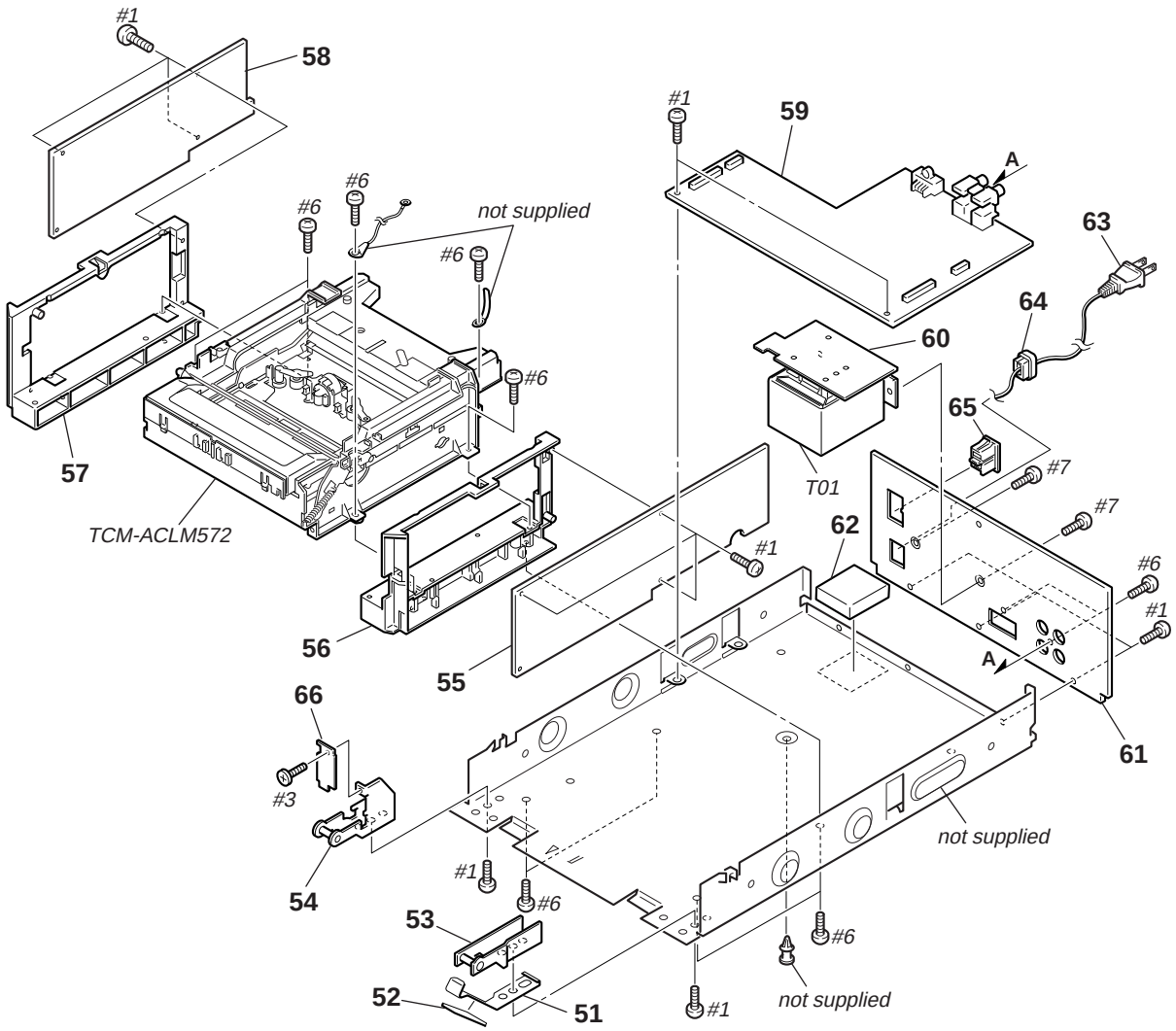
6-1. CASE, FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	3-033-056-01	WINDOW, GLASS	
2	4-212-579-11	BRACKET (GLASS)	
3	4-942-636-21	EMBLEM (NO.3.5), SONY	
4	4-214-458-01	TAPE	
5	3-033-074-01	CHASSIS, FRONT	
6	3-033-079-01	REC LEVEL KNOB	
7	3-028-756-01	PANEL (AL-TC), LOADING	
8	3-033-054-01	PLATE, LOADING ORNAMENT	
9	3-033-055-01	LID, LOADING	
10	3-028-755-01	PANEL (AL-TC), FRONT	
11	3-033-057-01	SCREW, CASE STOPPER	
* 12	3-033-052-01	TOP COVER	
* 13	3-033-053-01	FOOT	
14	3-033-061-01	FOOT CUSHION	
15	1-773-128-11	WIRE (FLAT TYPE) (19 CORE)	

Ref. No.	Part No.	Description	Remarks
* 16	A-2007-825-A	CONNECTION BOARD, COMPLETE	
17	3-033-080-01	DOLBY KNOB	
18	3-033-078-01	DIRECTION KNOB	
19	4-212-557-01	BUTTON (REC)	
20	3-033-075-01	LENS	
* 21	A-2007-817-A	FRONT BOARD, COMPLETE	
22	3-033-076-01	BUTTON, PLAY	
23	3-033-077-01	BUTTON, FF	
* 24	A-2007-823-A	O/C SW BOARD, COMPLETE	
* 25	1-672-765-11	VR BOARD	
26	3-033-081-01	REC LEBEL BRACKET	
27	3-033-082-01	VR WASHER 9Q	
28	3-033-083-01	NUT, VR	
31	4-212-539-02	BUTTON (POWER)	

6-2. CHASSIS SECTION

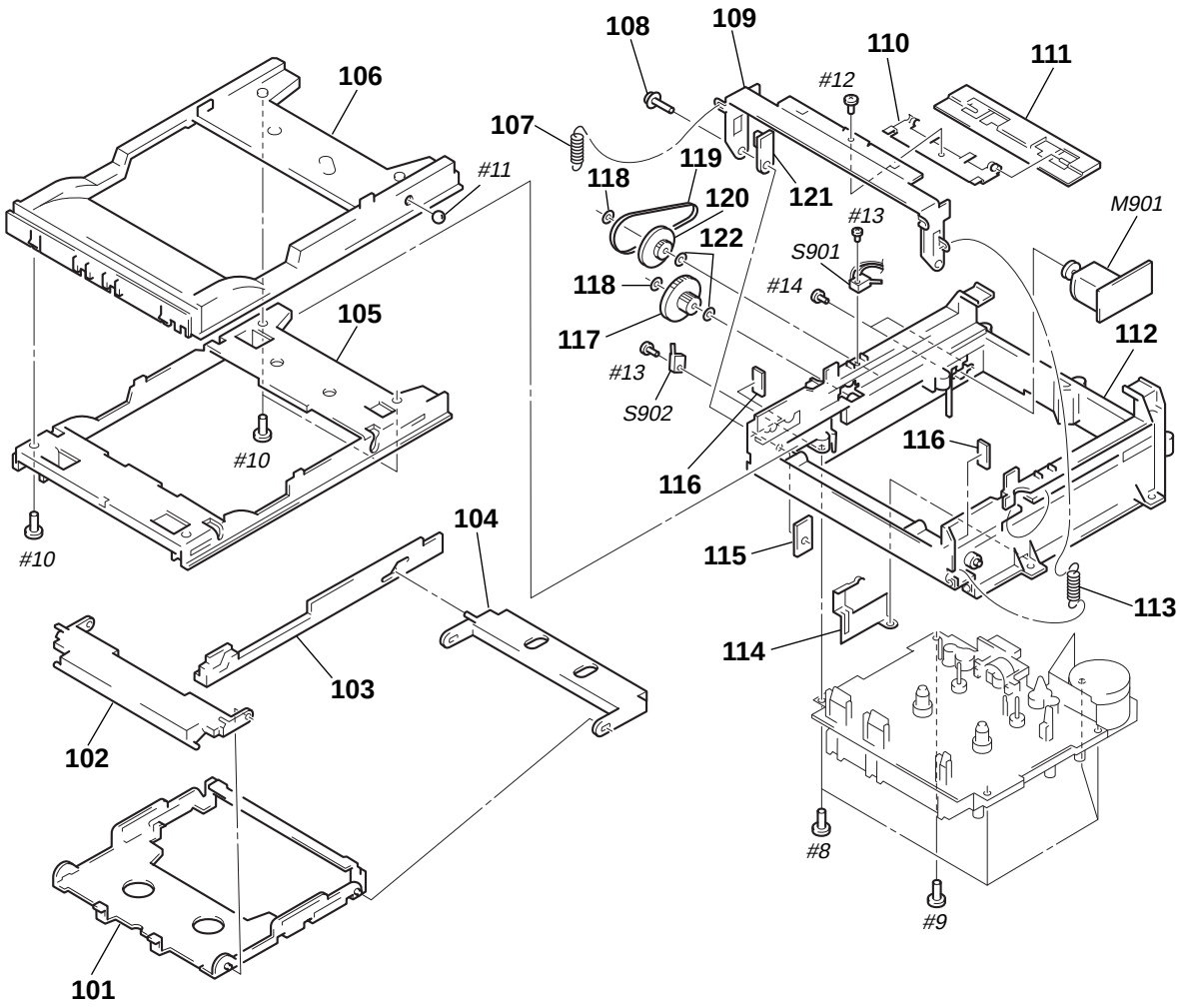


Ref. No.	Part No.	Description	Remarks
51	3-033-060-01	SPRING, PLATE	
52	4-213-692-02	TAPE (SPRING)	
53	X-4950-381-1	BRACKET (R) ASSY	
54	3-033-050-01	HINGE (L/C), DOOR	
* 55	A-2007-818-A	DOLBY BOARD, COMPLETE	
* 56	3-033-063-01	CHASSIS (R), DECK	
* 57	3-033-062-01	CHASSIS (L), DECK	
* 58	A-2007-819-A	CONTROL BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remarks
* 59	A-2007-820-A	POWER BOARD, COMPLETE	
* 60	1-672-764-11	POWER TRANS BOARD	
* 61	3-035-607-01	REAR PANEL (AEP, UK)	
* 61	3-035-608-01	REAR PANEL (E, HK, SP)	
* 62	3-033-068-01	CUSHION	
⚠63	1-555-750-00	CORD, POWER	
64	3-033-071-01	STOPPER, AC CORD	
⚠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.

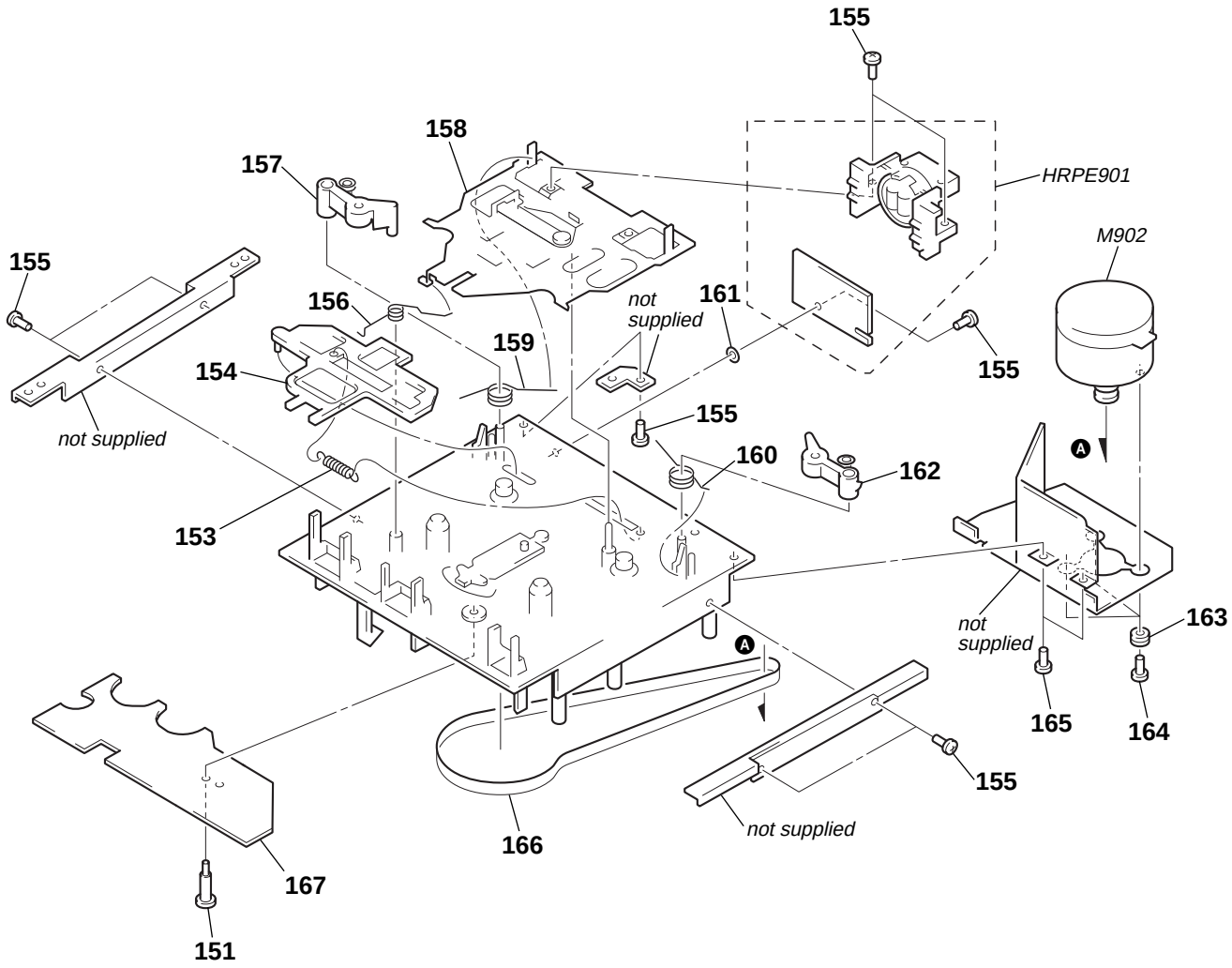
6-3. MECHANISM DECK SECTION-1 (TCM-ACLM572)



Ref. No.	Part No.	Description	Remarks
101	3-017-214-01	HOLDER	
102	3-017-215-01	ARM (A)	
103	3-017-233-01	RACK, GEAR	
104	3-017-216-01	ARM (C)	
105	3-017-213-01	CHASSIS	
106	3-017-212-01	TRAY	
107	3-017-235-01	SPRING (A)	
108	3-017-244-01	SCREW (1.7 × 8.2), SPECIAL	
109	3-017-217-01	ARM (576)	
110	3-017-218-01	RETAINER	
111	3-017-219-01	PLATE	
112	3-017-211-01	FRAME	
113	3-017-236-01	SPRING (B)	

Ref. No.	Part No.	Description	Remarks
114	3-017-234-01	GROUND, PLATE	
115	3-017-243-01	NUT	
116	3-017-242-01	BUFFER	
117	3-017-232-01	GEAR (B)	
118	3-017-241-01	SCREW (1.6 × 4), SPECIAL	
119	3-017-237-01	BELT (49.2)	
120	3-017-231-01	PULLEY (C)	
121	3-017-220-01	ARM	
122	3-017-240-01	SCREW (2.1 × 4), SPECIAL	
M901	3-017-239-01	PULLEY (MOTOR) (LOADING)	
S901	3-017-238-01	LIMITTER (SW MSS-8B) (OPEN)	
S902	3-017-238-01	LIMITTER (SW MSS-8B) (CLOSE)	

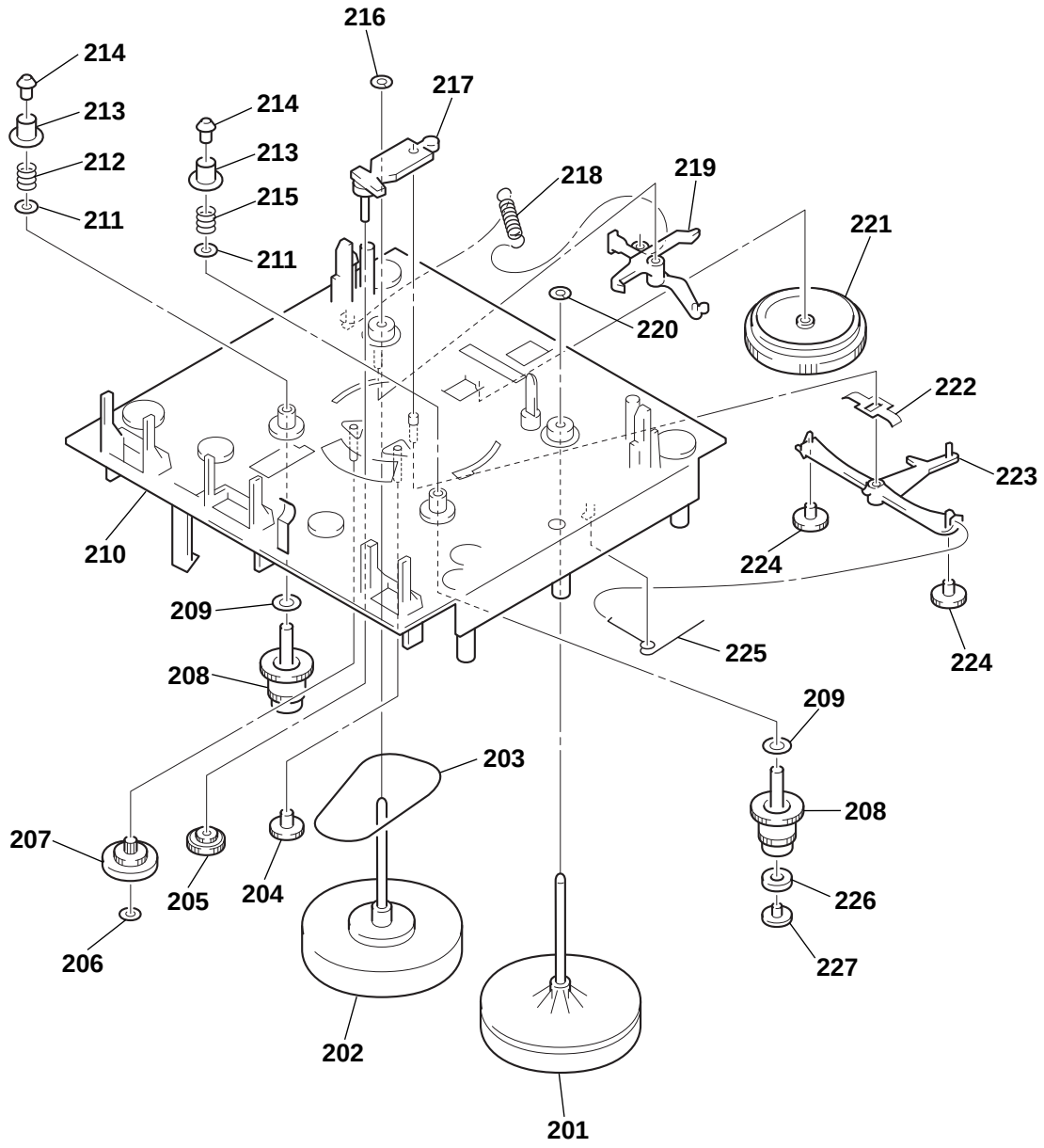
6-4. MECHANISM DECK SECTION-2 (TCM-ACLM572)



Ref. No.	Part No.	Description	Remarks
151	3-017-294-01	SCREW (S), SPECIAL	
153	3-017-273-01	LEVER (AC), SPRING	
154	3-017-270-01	AC, LEVER	
155	3-017-279-01	SCREW (M2), SPECIAL	
156	3-017-274-01	HEAD, SPRING BASE	
157	3-017-254-01	PINCH ROLLER (F)	
158	3-017-253-01	CHASSIS (HEAD)	
159	3-017-277-01	PINCH (F), SPRING	
160	3-017-278-01	PINCH (R), SPRING	

Ref. No.	Part No.	Description	Remarks
161	3-017-300-01	WASHER, FLAT	
162	3-017-255-01	PINCH ROLLER (R)	
163	3-017-296-01	CUSHION (MOTOR)	
164	3-017-297-01	SCREW (MOTOR)	
165	3-017-280-01	SCREW (M2 TAPPING), SPECIAL	
166	3-017-285-01	BELT (MAIN)	
* 167	1-672-011-11	MODE CONTROL BOARD	
HRPE901	3-017-303-01	HEAD (REC/PLAY/ERASE)	
M902	3-017-259-01	PULLEY (MOTOR) (CAPSTAN REEL)	

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



Ref. No.	Part No.	Description	Remarks
201	3-017-258-01	FLYWHEEL (R)	
202	3-017-257-01	FLYWHEEL (F)	
203	3-017-284-01	BELT (SUB)	
204	3-017-265-01	IDLER, GEAR	
205	3-017-305-01	GEAR (P)	
206	3-017-283-01	WASHER, FLAT	
207	3-017-304-01	CLUTCH	
208	3-017-263-01	REEL, BASE	
209	3-017-295-01	WASHER, FLAT	
210	3-017-252-01	CHASSIS (OS)	
211	3-017-298-01	WASHER (B/T)	
212	3-017-299-01	SPRING (B/T) (F)	
213	3-017-288-01	REEL, CAP	

Ref. No.	Part No.	Description	Remarks
214	3-017-262-01	REEL, BUSHING	
215	3-017-272-01	SPRING (BT)	
216	3-017-281-01	WASHER, FLAT	
217	3-017-256-01	ARM (PLAY)	
218	3-017-275-01	LOCK, SPRING CAM	
219	3-017-267-01	LOCK, ARM CAM	
220	3-017-282-01	WASHER, FLAT	
221	3-017-264-01	CAM, GEAR	
222	3-017-266-01	BASE, LEVER	
223	3-017-268-01	ARM (RF)	
224	3-017-269-01	GEAR (RF)	
225	3-017-276-01	ARM (RF), SPRING	
226	3-017-293-01	MAGNET, PLATE	
227	3-017-271-01	CAP (MG)	

CONNECTION

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: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- Abbreviations
  HK : Hong Kong
  SP : Singapore
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

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.

Ref. No.	Part No.	Description			Remarks
*	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

DOLBY

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

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	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.

9-922-983-11

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Home A&V Products Company

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