TC-V701

SERVICE MANUAL

AEP Model
UK Model
E Model

TC-V701 is the cassette deck section in LBT-V701.

Model Name Using Similar Mechanism	TC-WR810
Tape Transport Mechanism Type	Deck A: TCM-170RA1
	Deck B: TCM-170RB18

SPECIFICATIONS

Recording system	4-track 2-channel stereo
Frequency response	DOLBY NR OFF (DIN) With TYPE II cassette (Sony UX-S) 30 to 14,000 Hz ± 3 dB With TYPE I cassette (Sony HF-S) 30 to 13,000 Hz ± 3 dB
Wow and flutter	± 0.2 % (DIN)
Dimensions	Approx. 355 × 133 × 308 mm (w/h/d) (14 × 5 1/4 × 12 1/8 inches) Incl. projecting parts and controls
Weight	Approx. 3.7 kg (8 lb 3 oz)

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

MICROFILM

STEREO CASSETTE DECK

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.

SECTION 1
SERVICING NOTES

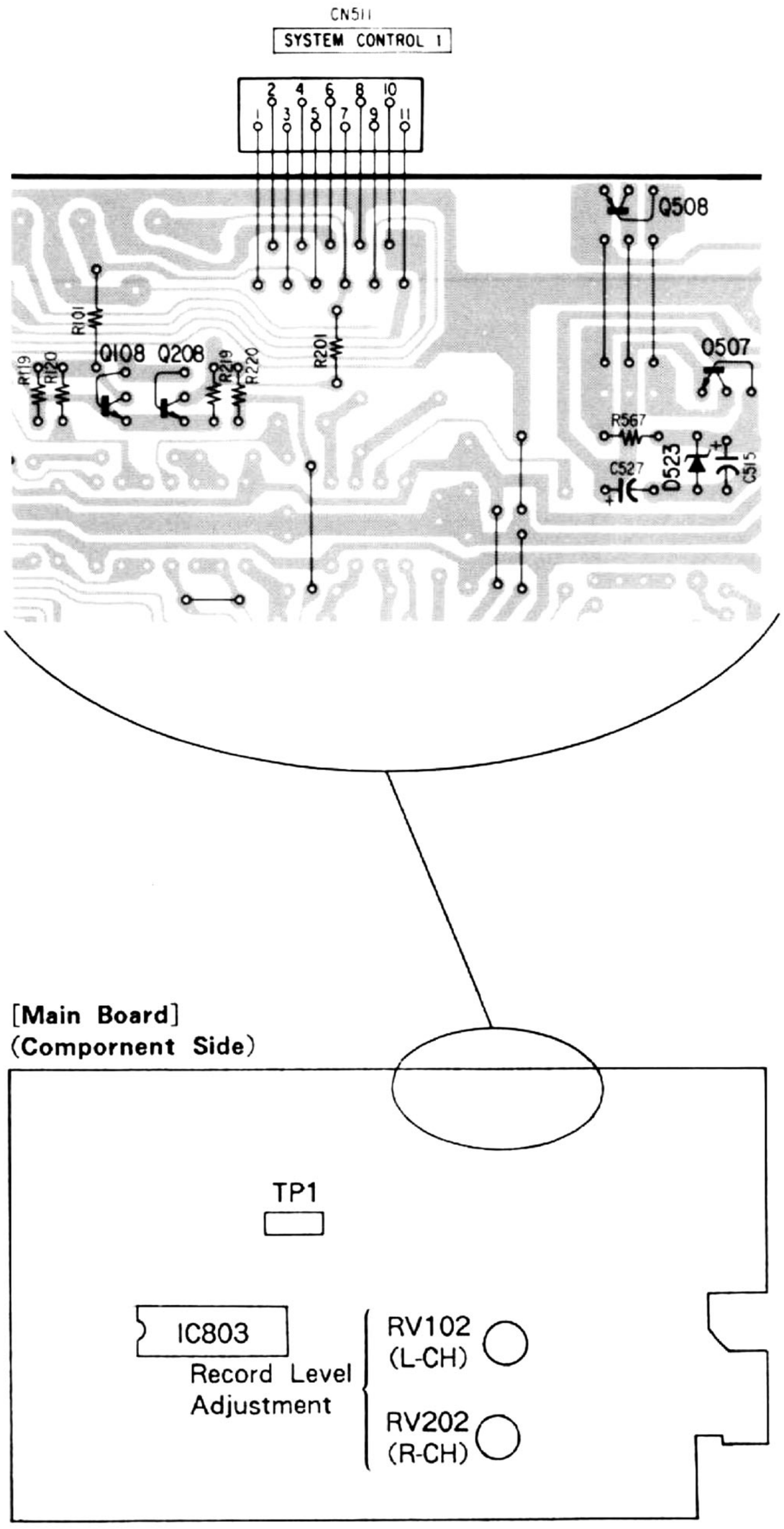
- **Power Supply**

  On servicing, connect CN510 (SYSTEM CONTROL 2) to the system amplifier TA-V701.

- **LINE IN/OUT (CN511 : SYSTEM CONTROL 1) Loacation**

LINE OUT { L-CH : Pin ⑤ / R-CH : Pin ⑦ }

LINE IN { L-CH : Pin ⑨ / R-CH : Pin ⑪ }



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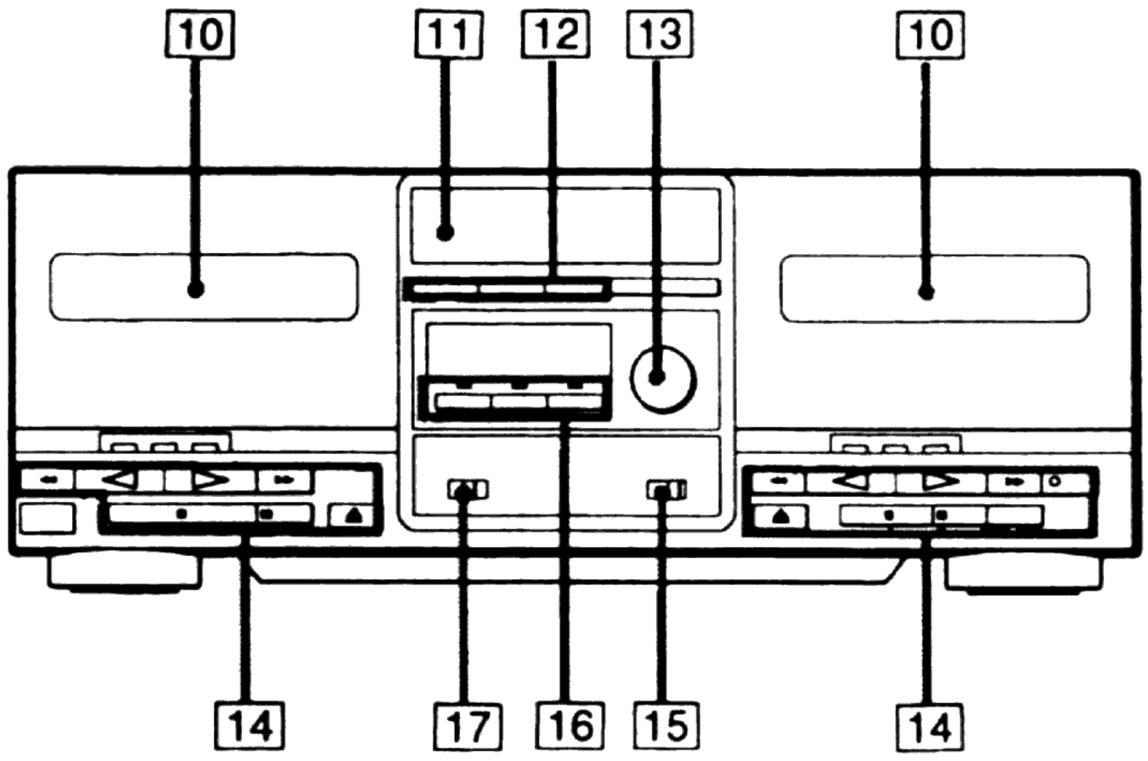
SECTION 2
GENERAL

• Parts Identification



10 Cassette holders
11 Display window
12 COUNTER setting buttons
13 REC (recording) LEVEL control
14 Tape operation buttons
◀◀ Leftward fast winding
▶▶ Rightward fast winding
◁ Reverse play
▷ Forward play
■ Stop
⏏ Eject
❚❚ PAUSE
○ REC MUTE (record muting, for deck B only)
● REC (record, for deck B only)
15 DOLBY NR* (Noise Reduction) switch
16 SYNCHRO (sinchronized) DUBBING speed selector
17 DIRECTION MODE selector

* Dolby Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Licensing Corporation.

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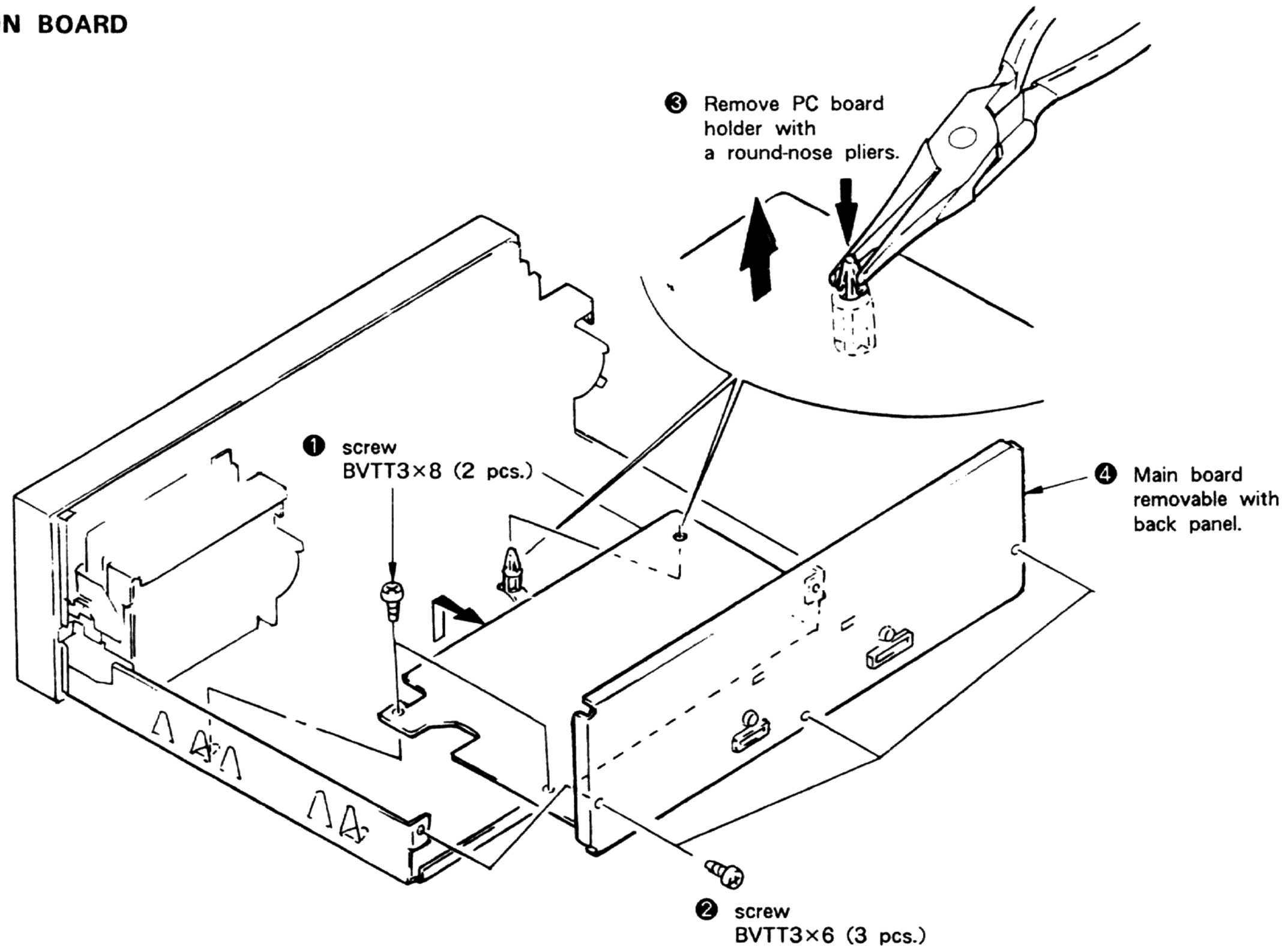
SECTION 3
DISASSEMBLY

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

Remove the case by removing four case stopping screw (M3×8).

❶ Push EJECT button and slide the cassette lid off.
❷ Remove the connectors on MD blocks. (Deck A : CNP11, 12, 82, Deck B : CNP11, 12, 82, 83)
❸ Remove the front panel assembly with MD blocks.
❹ Remove eight MD stopping screw P2.6×8.
❺ Remove the cassette holder assemblies and the cassette retainers.

MAIN BOARD



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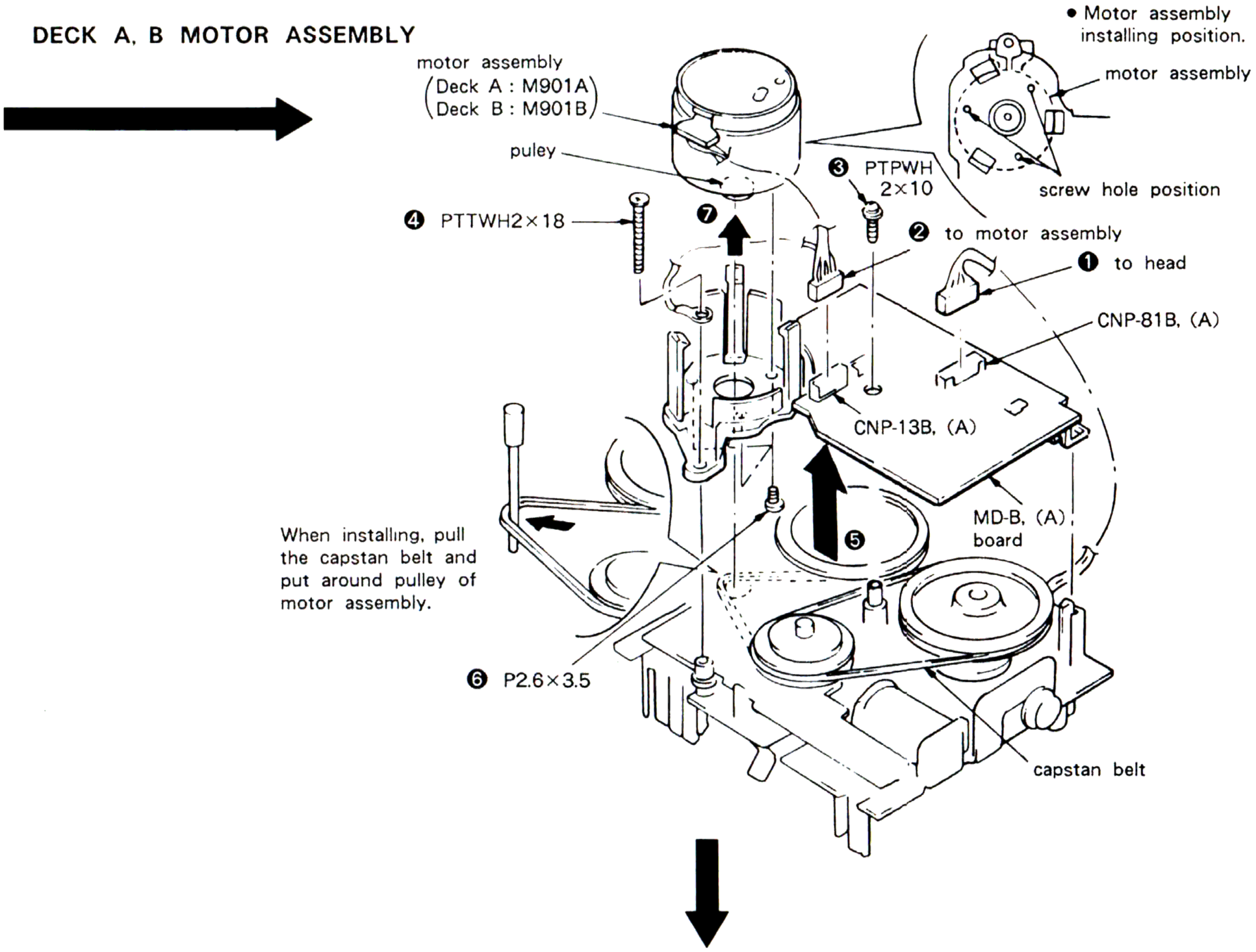
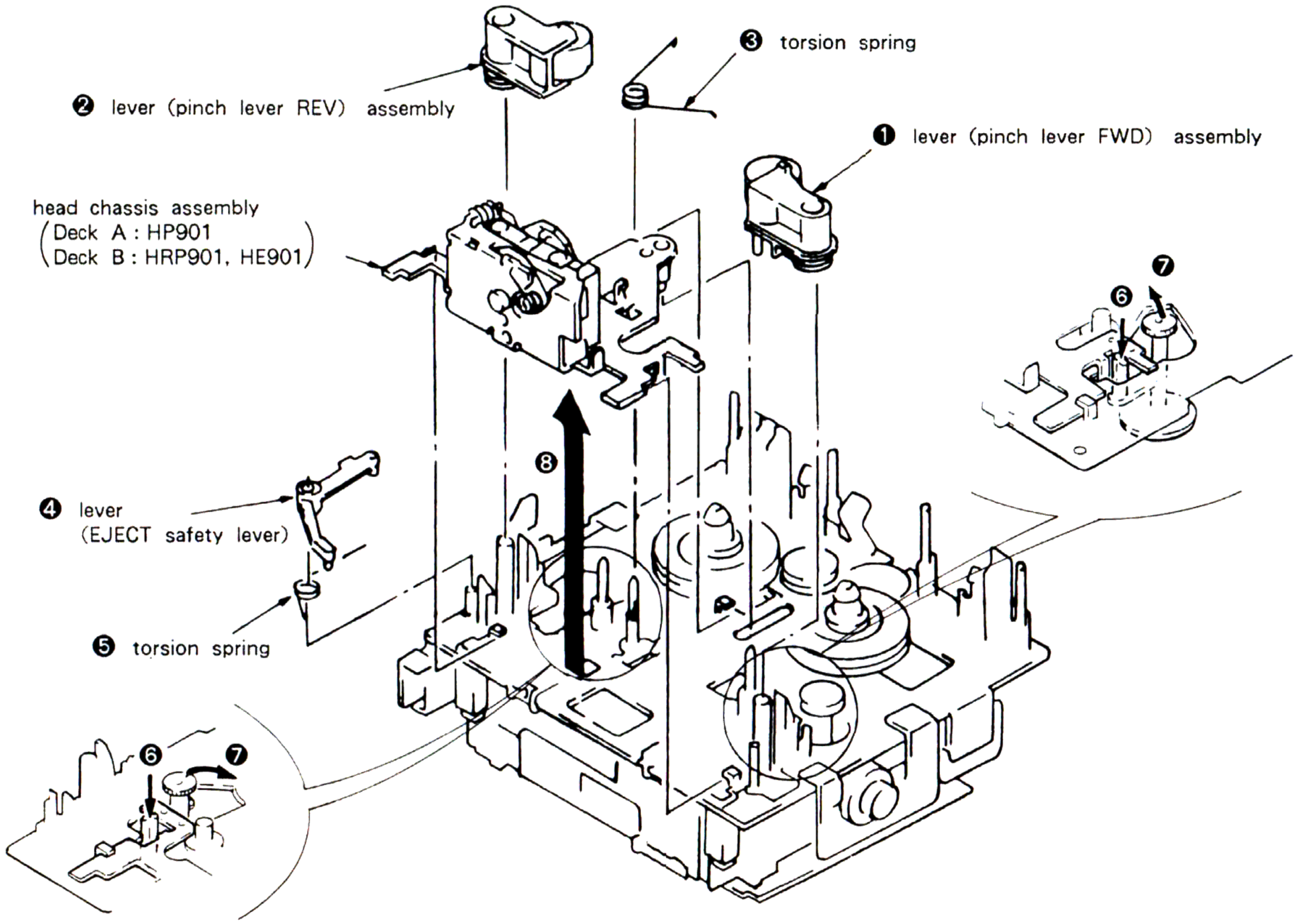
DECK A, B MOTOR ASSEMBLY



HEAD CHASSIS ASSEMBLY



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SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan　　idler
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 adjusted.

Torque Measurement

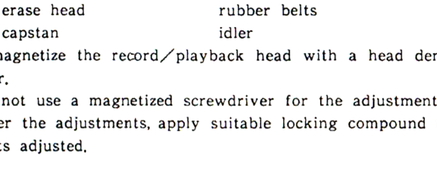
Torque	Torque Meter	Meter Reading
FWD	CQ-102C	30 to 60 g • cm (0.42 to 0.83 oz • inch)
FWD Back Tension	CQ-102C	1 to 5 g • cm (0.014 to 0.06 oz • inch)
REV	CQ-102RC	30 to 60 g • cm (0.42 to 0.83 oz • inch)
REV Back Tension	CQ-102RC	1 to 5 g • cm (0.014 to 0.06 oz • inch)
FF, REW	CQ-201B	100 to 170 g • cm (1.4 to 2.36 oz • inch)

4-2. ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in the service manual.
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  DOLBY NR switch : OFF
- Standard Record :
  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

–Record Mode–



• Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (–10 dB)

• Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (–5 dB)

• Test tape

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

• Test Mode

When making pin ㉜ of IC803 low (connect TP1 to ground with jumper wire), following function operates.

1. Source monitor
   Release the line mute while recording.
2. High speed playback
   On recording, while pressing HIGH SPEED (DUBBING) button, high speed playback operates.
3. Record memory stop
   Using DIRECTION MODE switch ⇆, returns to the recording start point and stops or plays.
4. LED indication of slide switch
   When making Deck B pause, LED indicates the positions of DIRECTION MODE switch.

Switch	Position	LED
DIRECTION MODE	⇆	Deck A◀
	⇄	Deck A PLAY
	RELAY	Deck A▶

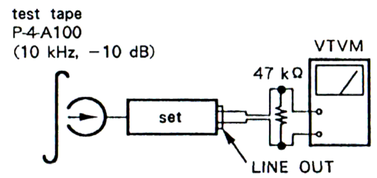
5. AGC gain check
   When setting DIRECTION MODE switch to ⇆ and recording, AGC gain becomes maximum.

Record/Playback Head Azimuth Adjustment

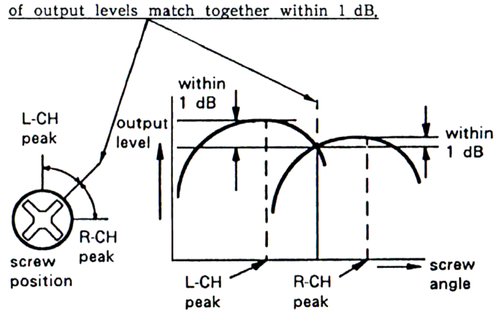
DECK A　DECK B

Procedure :

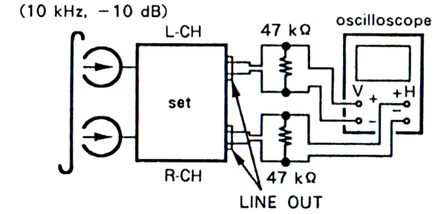
1. Mode : FWD playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



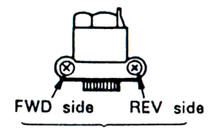
3. Phase Check
   Mode : playback



Screen pattern
in phase　45°　90°　135°　180°
good　wrong

4. Set in the REV mode and repect the step 1 – 3.
5. After the adjustment, lock the screws with locking compound.

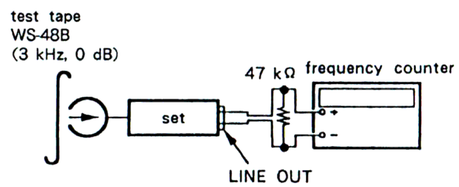
Adjustment Location : record/playback head



Tape Speed Adjustment DECK A DECK B

Perform high speed adjustment before normal speed adjustment.

Procedure :
Mode : FWD playback



[High Speed Adjustment]

1. Short-circuit TP1.
2. Put the set to FWD playback state.
3. Press and keep on pressing HIGH SPEED DUBBING switch (S802 on FL board).
4. On this time, adjust with the semi-fixed variable resistors (H) on the rear side of M901A (Deck A) and M901B (Deck B) so that the reading on the frequency counter becomes the adjustment limits.
5. After adjustment, release the short on TP1.

[Normal Speed Adjustment]

1. Put the set to FWD playback state.
2. On this time, adjust with the semi-fixed variable resistors (L) on the rear side of M901A (Deck A) and M901B (Deck B) so that the reading on the frequency counter becomes the adjustment limits.

Adjustment Limits :

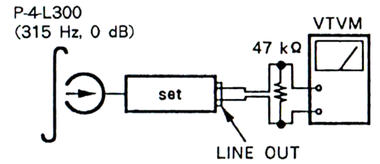
Speed	Frequency Counter
high	5,960 ±60 Hz
normal	2,980 ±30 Hz

Frequency difference between the beginning and the end of the tape should be within 3%.
Frequency difference between Deck A and Deck B the beginning of the tape should be within 1.5%.

Adjustment Location :
Deck A : motor (M901A)　rear side
Deck B : motor (M901B)　rear side

Playback Level Adjustment DECK A DECK B

Procedure :
Mode : playback



Adjust Deck A : RV41A (L-CH), RV61A (R-CH) and Deck B : RV41B (L-CH), RV61B (R-CH) so that the VTVM reading becomes the adjustment limits below.

Adjustment Limits :
LINE OUT level : –5 ±1.5 dB (0.37 – 0.51 V)
Level difference between channels : less than 1 dB.
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : MD (A), (B) board

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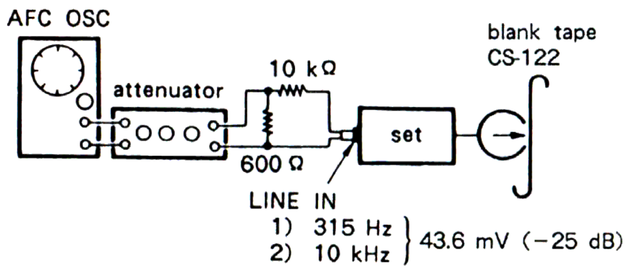
Record Bias Adjustment DECK B

Setting :

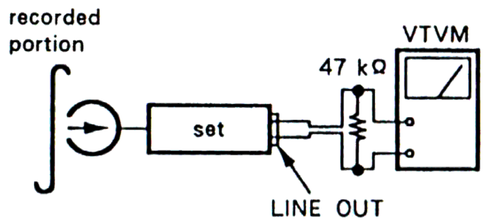
- REC LEVEL control : standard record (See page 6.)
- Short-circuit TP1.

Procedure :

1. Mode : record



2. Mode : playback



Confirm that the 10 kHz playback output is 0±0.5 dB ralative to the 315 Hz output. If necessary, adjust RV42 (L-CH), RV62 (R-CH) and repeat the steps given above.

3. After adjustment, release the short on TP1.

Adjustment Location : MD (B) board

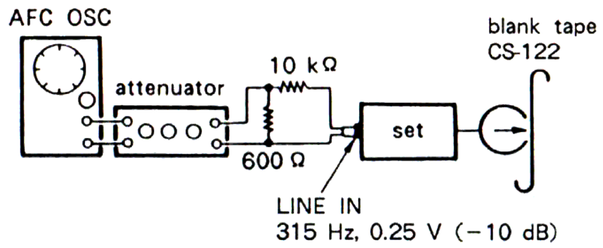
Record Level Adjustment DECK B

Setting :

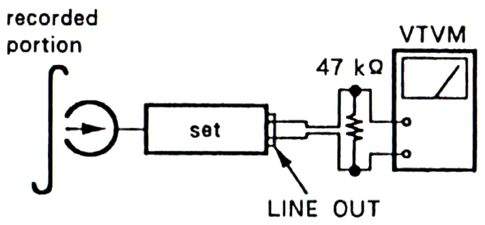
- REC LEVEL control : standard record (See page 6.)
- Short-circuit TP1.

Procedure :

1. Mode : record



2. Mode : playback

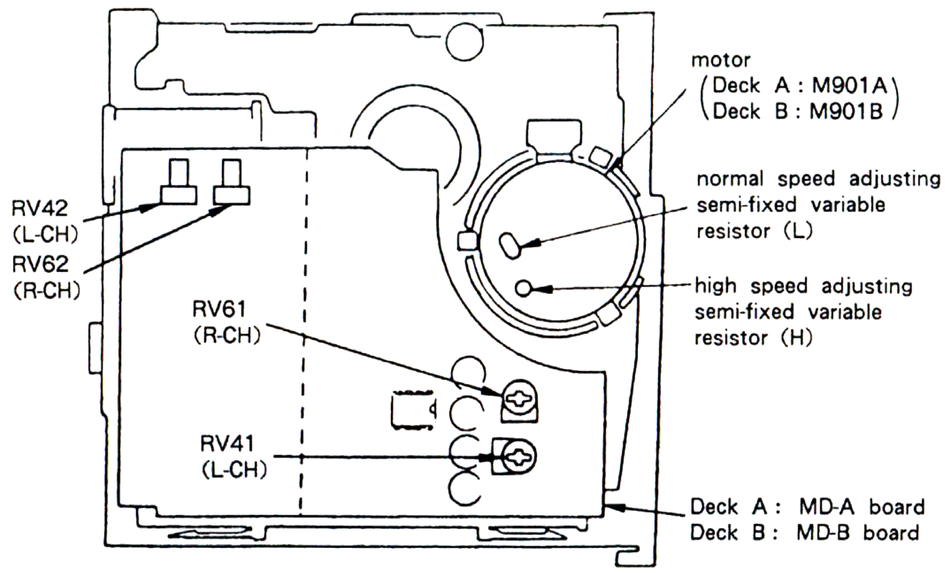


3. Play back the signal recorded in step 1. Confirm that the signal level is within the specification below. If necessary, adjust RV102 (L-CH), RV202 (R-CH) and repeat the step 1 − 3.
4. After adjustment, release the short on TP1.

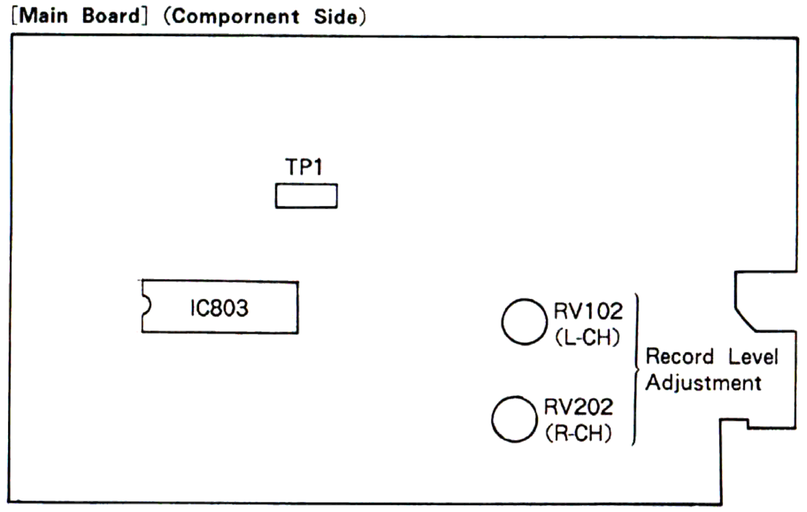
Specification : LINE OUT level : −5±0.5 dB (0.41 − 0.46 V)

Adjustment Location : main board

−Adjustment Parts Location Diagram−



[Main Board] (Compornent Side)



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SECTION 5 DIAGRAMS

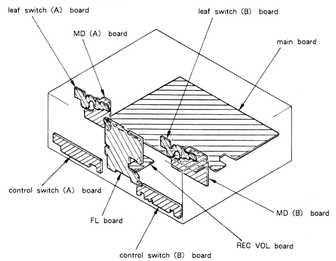
5-1. PRINTED WIRING BOARDS

• See page 20 for Semiconductor Lead Layouts.

Note :

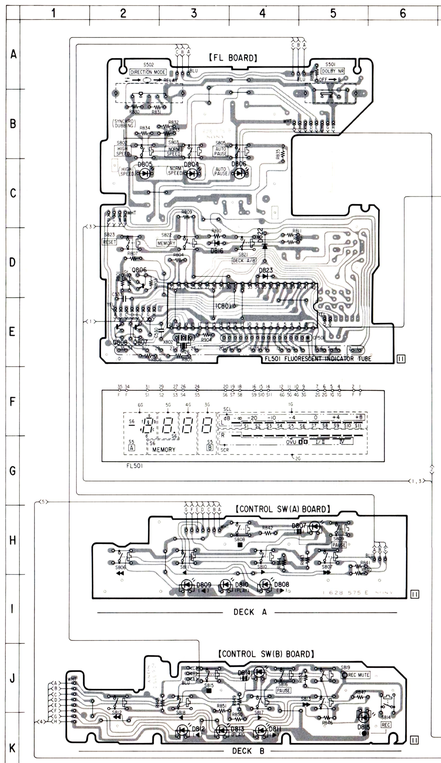
• ○——— : parts extracted from the component side.

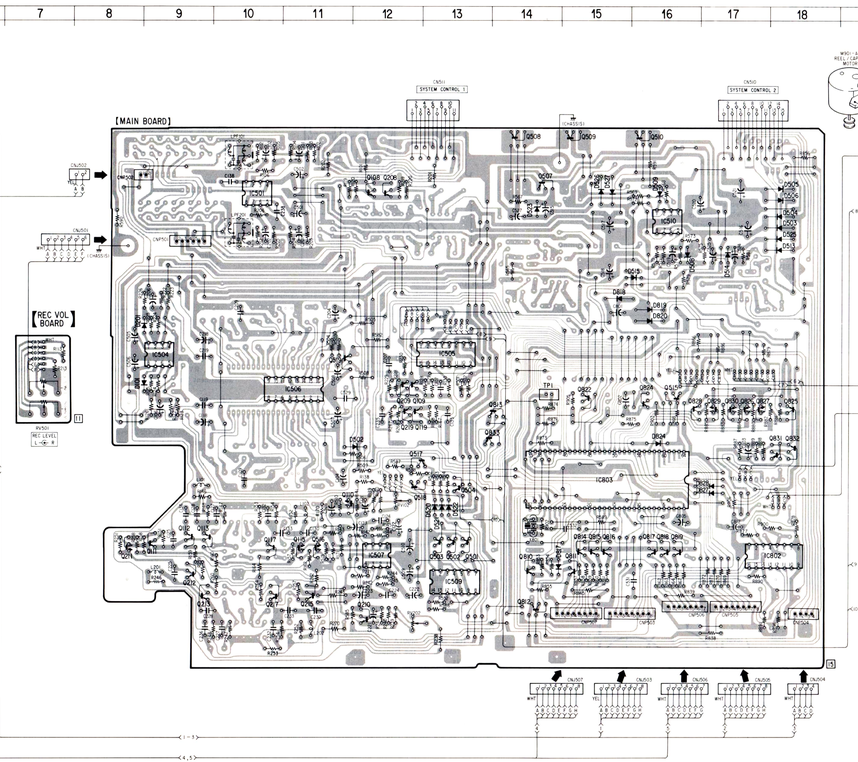
• Circuit Boards Location

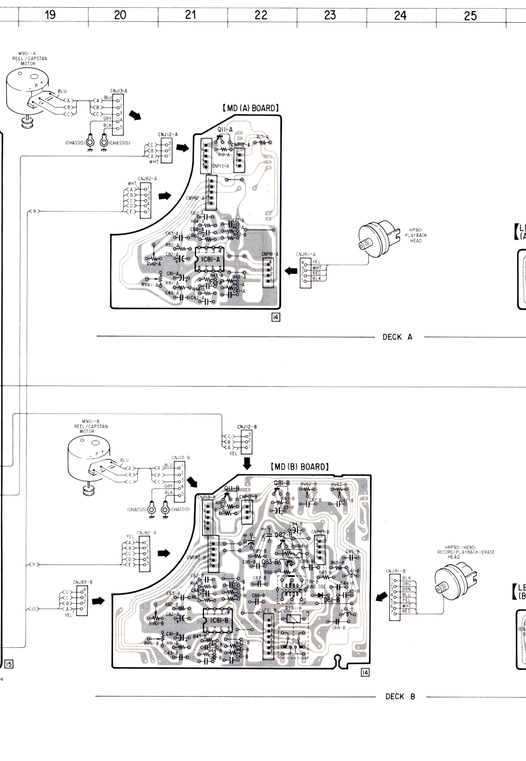


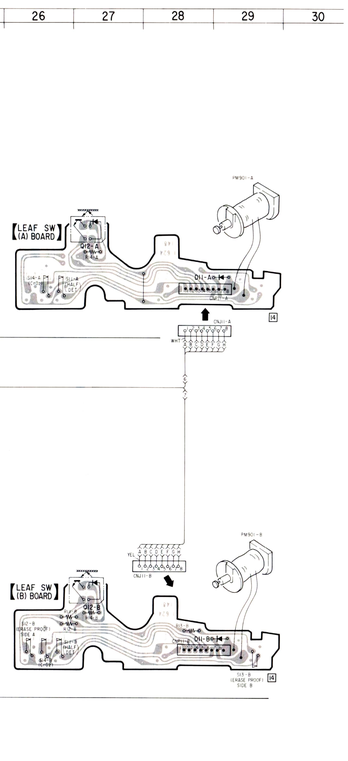
• Semiconductor Location

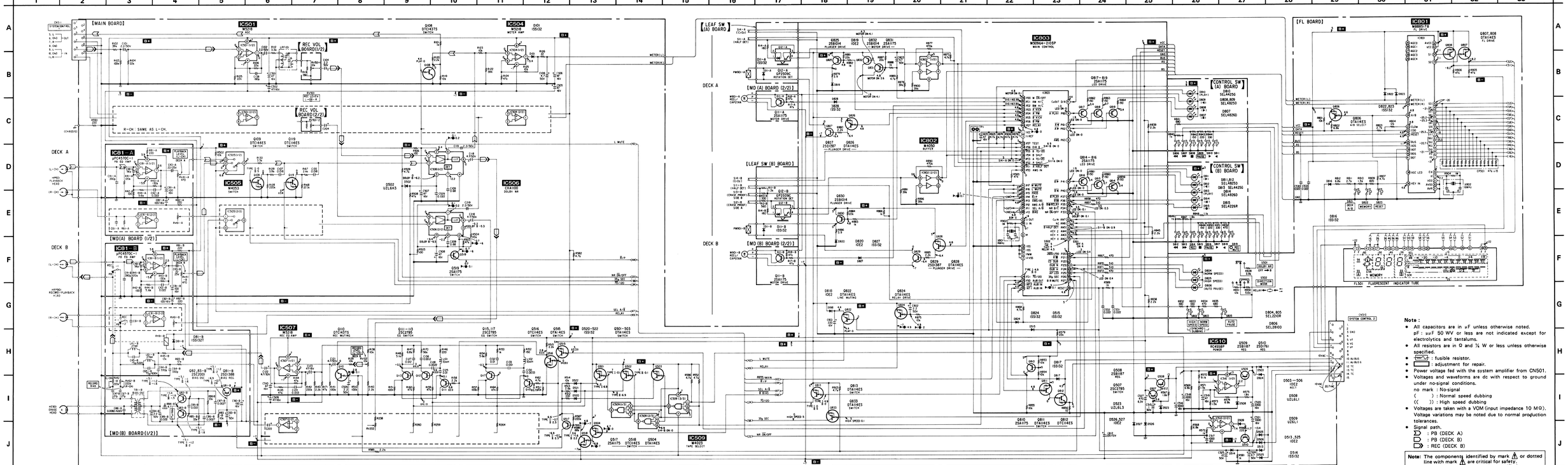
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D11-A	D-29	D816	D-3	Q111	H-9	Q813	F-14
D11-B	I-29	D817	H-14	Q112	H-9	Q814	H-15
D81-B	I-23	D818	E-15	Q113	H-9	Q815	H-15
D101	F-9	D819	E-16	Q115	H-11	Q816	H-15
D201	E-9	D820	E-16	Q117	H-10	Q817	H-16
D502	G-12	D822	D-4	Q119	F-12	Q818	H-16
D503	C-18	D823	D-4	Q208	C-12	Q819	H-16
D504	C-18	D824	G-16	Q209	F-12	Q822	F-15
D505	C-18	D827	G-17	Q210	I-12	Q824	F-16
D506	C-18	D828	G-17	Q211	H-8	Q825	F-18
D508	D-16			Q212	I-9	Q826	F-17
D509	C-16	IC81-A	D-21	Q213	I-9	Q827	F-17
D513	D-18	IC81-B	I-21	Q215	I-11	Q828	F-16
D514	D-17	IC501	C-10	Q217	I-10	Q829	F-17
D515	D-16	IC504	E-9	Q219	F-12	Q830	F-17
D520	H-13	IC505	E-13	Q501	H-13	Q831	G-18
D521	H-13	IC506	F-11	Q502	H-13	Q832	G-18
D522	H-13	IC507	H-12	Q503	H-13	Q833	G-14
D523	C-14	IC509	I-13	Q504	G-13		
D525	D-18	IC510	C-16	Q507	C-14		
D526	C-15	IC801	E-3	Q508	B-14		
D527	C-15	IC802	H-18	Q509	B-15		
D804	C-3	IC803	G-15	Q510	B-16		
D805	C-2			Q515	F-16		
D806	C-4	Q11-A	B-21	Q516	H-11		
D807	H-5	Q11-B	G-22	Q517	G-12		
D808	I-4	Q12-A	D-27	Q518	G-12		
D809	I-3	Q12-B	I-27	Q519	E-11		
D810	I-3	Q81-B	G-22	Q806	D-2		
D811	K-4	Q82-B	H-22	Q807	E-2		
D812	K-3	Q83-B	H-22	Q808	E-2		
D813	K-3	Q108	C-12	Q810	H-14		
D814	J-4	Q109	F-12	Q811	H-15		
D815	K-5	Q110	H-11	Q812	I-14		











Note :

- 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 ¼ W or less unless otherwise specified.
- : fusible resistor.
- : adjustment for repair.
- Power voltage fed with the system amplifier from CN501.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  - no mark : No-signal
  - ( ) : Normal speed dubbing
  - (( )) : High speed dubbing
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - : PB (DECK A)
  - : PB (DECK B)
  - : REC (DECK B)

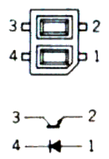
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

SECTION 6
EXPLODED VIEWS

• Semiconductor Lead Layouts

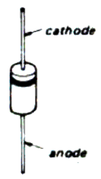
DTC143TS
2SA1348
2SC3402

GP2S09-B



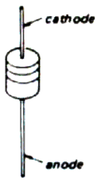
2SA1175HFE
2SC2785HFE

US1060M
1SS132
10E2N

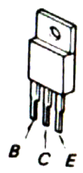


2SB1014

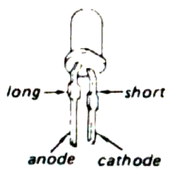
HZS6A1L
HZS6C3L
UZL-6L2



2SB1187F



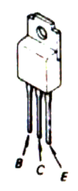
SEL2210R
SEL2810D-D



2SC2001-L
2SD1387
2SD1388

SEL4425G-C
SEL4826D-C

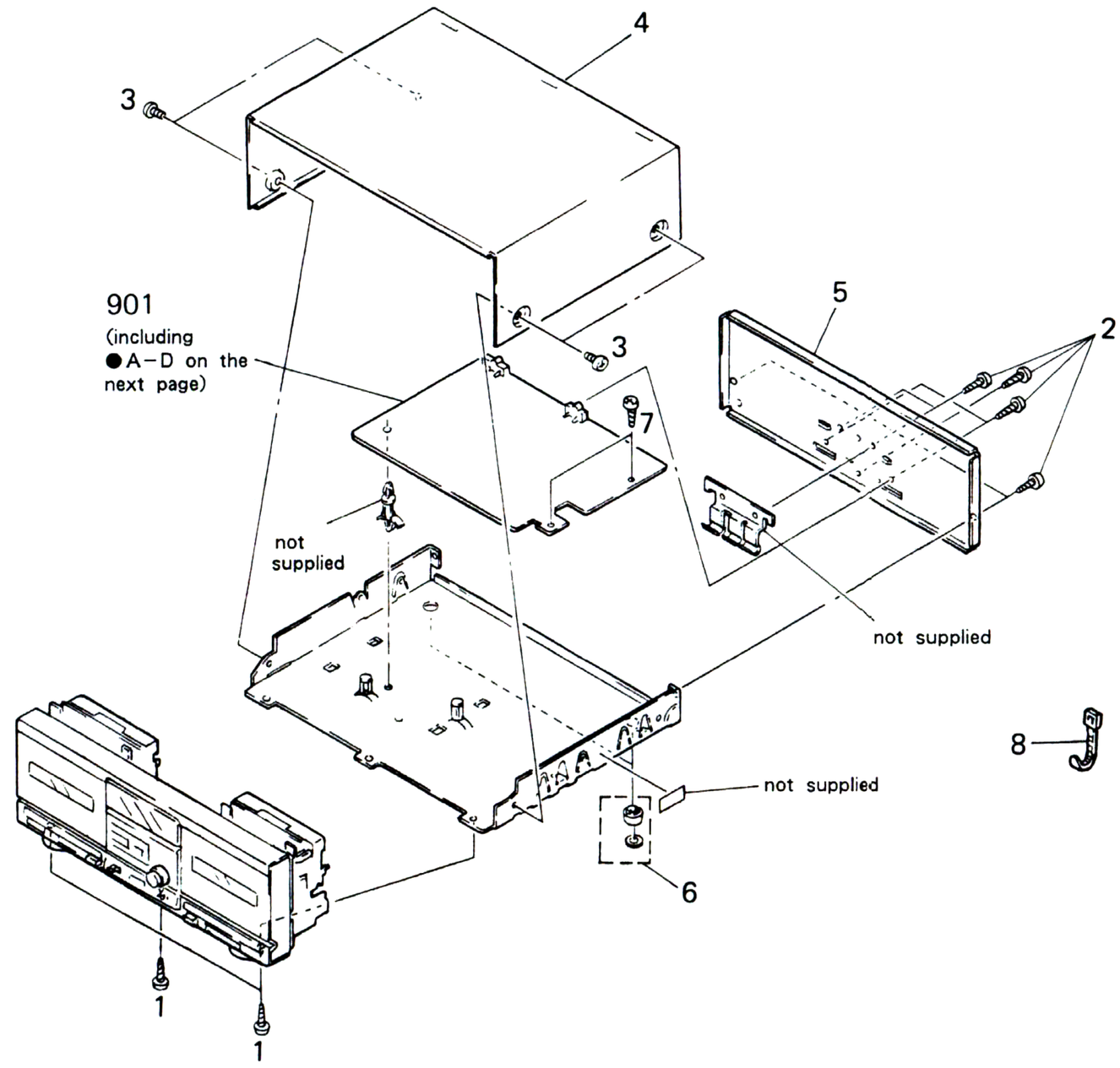
2SD1761E



NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

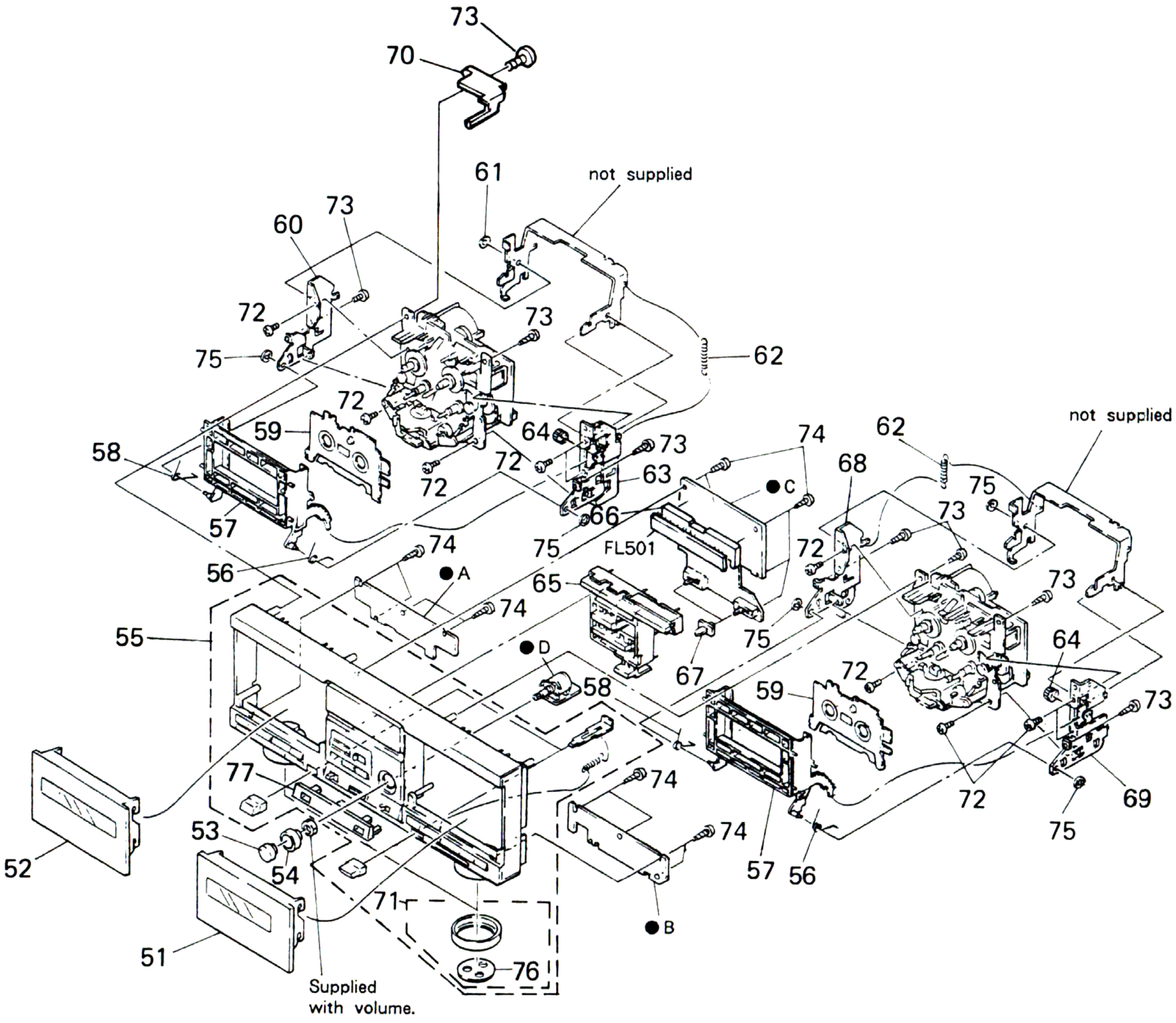
(1) CASE, REAR PANEL SECTION



No.	Part No.	Description	Remarks
1	7-682-547-09	SCREW +BVTT 3X6 (S)	
2	7-682-547-04	SCREW +BVTT 3X6 (S)	
3	3-704-366-01	SCREW (CASE) (M3X8)	
4	4-919-379-02	CASE	
5	*3-343-685-31	PANEL, BACK	
6	X-4917-254-1	FOOT ASSY	
7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
8	*3-337-402-01	BAND, BINDING	
901	*A-2006-069-A	MOUNTED PCB, AUDIO	
FL501	1-519-552-11	INDICATOR TUBE, FLUORESCENT	

(2) FRONT PANEL SECTION

- ● A : Control Switch (A) Board
- ● B : Control Switch (B) Board
- ● C : FL Board
- ● D : REC VOL Board



No.	Part No.	Description	Remarks
51	3-343-686-51	LID, CASSETTE (DECK B)	
52	3-343-686-41	LID, CASSETTE (DECK A)	
53	3-343-633-01	KNOB (R-21)	
54	3-343-634-01	KNOB (L-23)	
55	X-3343-634-1	PANEL ASSY, FRONT	71,76,77
56	3-343-688-01	SPRING (LOADING RIGHT)	
57	X-3343-628-1	HOLDER ASSY, CASSETTE	
58	3-343-687-01	SPRING (LOADING LEFT)	
59	*3-340-123-01	RETAINER, CASSETTE	
60	*X-3343-624-1	BRACKET (LA) ASSY	
61	7-624-105-04	STOP RING 2.3, TYPE -E	
62	3-343-689-01	SPRING, TENSION	
63	*X-3343-625-1	BRACKET (RA) ASSY	
64	X-3332-464-1	GEAR (DAMPER) ASSY	
65	3-343-695-21	BUTTON (C)	
66	*3-350-116-02	HOLDER (FL)	
67	4-924-444-11	KNOB (TIMER)	
68	*X-3343-626-1	BRACKET (LB) ASSY	
69	*X-3343-627-1	BRACKET (RB) ASSY	
70	*3-350-117-01	REINFORCEMENT (FP)	
71	X-4917-252-1	PLATE (LEG) ASSY, ORNAMENTAL	76
72	7-621-770-87	SCREW +BVTT 2.6X5 (S)	
73	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
74	7-685-533-11	SCREW +BTP 2.6X6 TYPE2 N-S	
75	7-624-190-31	STOP RING 4, TYPE-CS	
76	4-928-401-01	FELT	
77	3-350-132-01	ESCUTCHEON	

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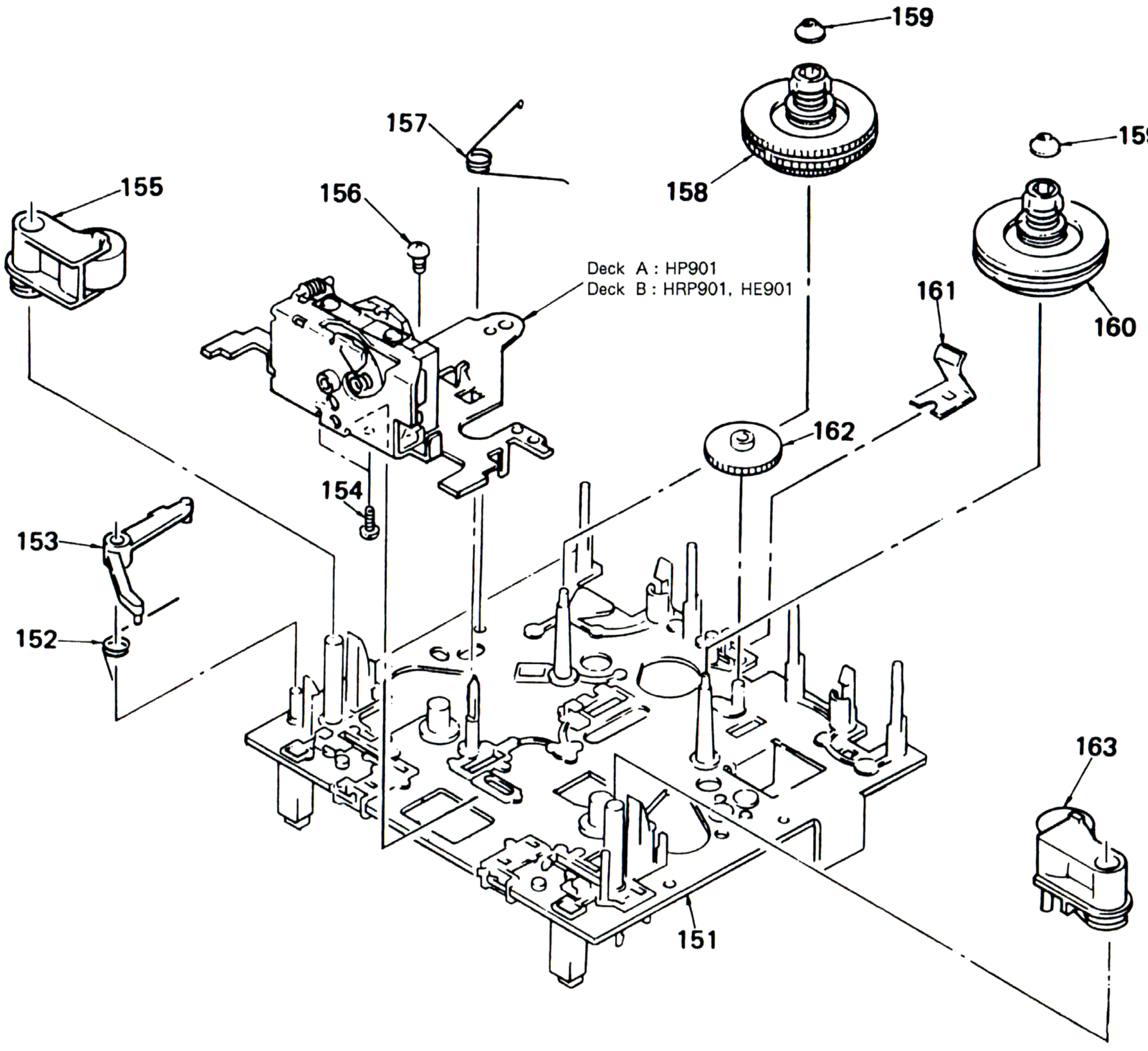
(3) TAPE TRANSPORT MECHANISM SECTION-1

DECK A : TCM-170RA1
DECK B : TCM-170RB18



No.	Part No.	Description	Remarks
151	*X-3343-418-1	CHASSIS ASSY, MECHANICAL	
152	3-343-477-01	SPRING, TORSION (EJECT SAFTY)	
153	*3-343-476-01	LEVER (EJECT SAFETY LEVER)	
154	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2	
155	X-3343-403-1	LEVER (PINCH LEVER REV) ASSY	
157	3-343-401-01	SPRING, TORSION	
158	X-3343-415-1	TABEL (REV) ASSY, REEL	
159	3-343-439-01	CAP (REEL TABLE)	
160	X-3343-401-1	TABEL ASSY, REEL	
161	3-343-420-01	SPRING, LEAF	
162	3-343-411-01	GEAR (FF GEAR)	
163	X-3343-402-1	LEVER (PINCH LEVER FWD) ASSY	
HP901	A-2108-129-A	(DECK A)...CHASSIS ASSY, HEAD	
HE901, HRP901	A-2108-130-A	(DECK B)...CHASSIS ASSY, HEAD	

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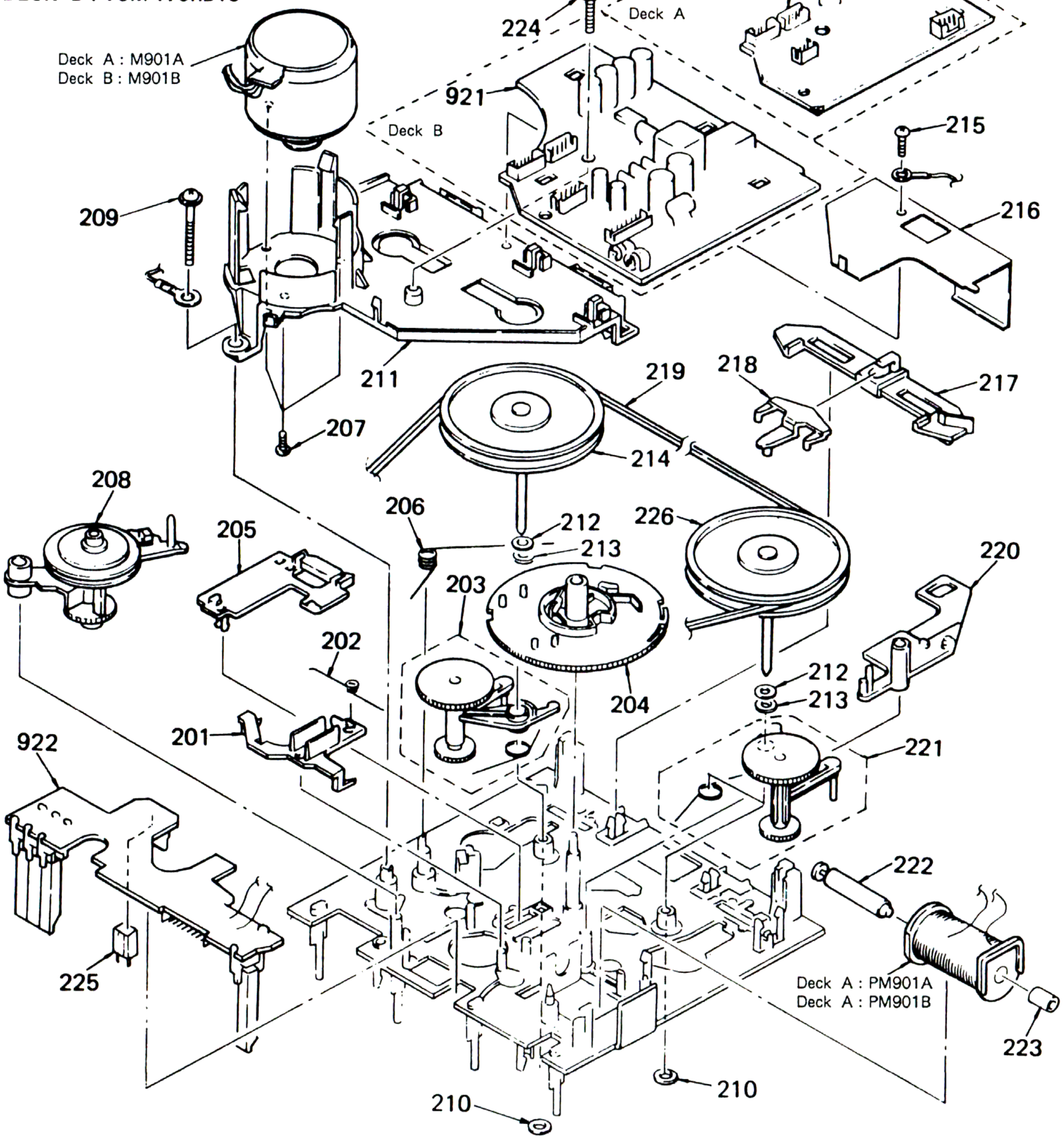
(4) TAPE TRANSPORT MECHANISM SECTION-2

DECK A : TCM-170RA1
DECK B : TCM-170RB18



No.	Part No.	Description	Remarks
201	3-343-453-01	SLIDER (BRAKE PLATE)	
202	3-343-429-01	SPRING, TORSION	
203	X-3343-406-1	LEVER (TU ARM REV) ASSY	
204	3-343-470-01	GEAR (CAM GEAR)	
205	*3-343-461-01	SLIDER	
206	3-343-430-01	SPRING, TORSION	
207	7-627-556-28	SCREW +P 2.6X3.5	
208	X-3343-414-1	LAVER (FR ARM) ASSY	
209	3-343-403-01	SCREW (PTTWH 2X18)	
210	3-343-473-01	WASHER, NYLON	
211	*X-3343-407-1	BASE (THRUST RETAINER) ASSY	
212	4-605-835-11	WASHER (2.6), POLYSLIDER	
213	3-307-482-00	WASHER, LUMILER	
214	X-3343-429-1	FLYWHEEL COMPLETE ASSY	
215	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
216	3-343-480-01	PLATE, SHIELD	
217	*3-343-457-01	SLIDER (REVERSE SLIDER)	

No.	Part No.	Description	Remarks
218	3-343-462-01	LEVER	
219	3-343-426-02	BELT (CAPSTAN BELT SQUARE)	
220	3-343-493-01	LEVER (PM LEVER)	
221	X-3343-405-1	LEVER (TU ARM FWD) ASSY	
222	*3-343-425-01	ARBOR(MOVABLE IRON ARBOR),IRON	
223	*3-343-424-01	ARBOR (FIXED IRON ARBOR), IRON	
224	3-343-404-01	SCREW (PTPWH 2X10)	
225	*3-343-419-01	HOLDER (S SENSER A)	
226	X-3343-431-1	FLYWHEEL (REV) COMPLETE ASSY	
921	*1-624-147-11	(DECK A).....PC BOARD, MD-A	
	*1-625-912-14	(DECK B).....PC BOARD, MD-B	
922	*1-624-148-11	PC BOARD, LEAF SW	
M901A	X-3343-408-1	(DECK A)...MOTOR ASSY	
M901B	X-3343-408-1	(DECK B)...MOTOR ASSY	
PM901A	1-454-456-11	(DECK A)...SOLENOID, PLUNGER	
PM901B	1-454-456-11	(DECK B)...SOLENOID, PLUNGER	

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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.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

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			
901	*A-2006-069-A	MOUNTED PCB, AUDIO			
921	*1-624-147-11	(DECK A)...PC BOARD, MD-A			
	*1-625-912-14	(DECK B)...PC BOARD, MD-B			
922	*1-624-148-11	PC BOARD, LEAF SW			
C41A	1-162-289-31	CERAMIC	390PF	10%	50V
C41B	1-110-342-11	MYLAR	390PF	5%	50V
C42A	1-136-157-00	FILM	0.022MF	5%	50V
C42B	1-136-157-00	FILM	0.022MF	5%	50V
C43A	1-124-282-00	ELECT	22MF	20%	25V
C43B	1-124-282-00	ELECT	22MF	20%	25V
C44B	1-162-288-31	CERAMIC	330PF	10%	50V
C45B	1-136-273-91	FILM	75PF	5%	630V
C47B	1-162-209-31	CERAMIC	27PF	5%	50V
C48A	1-162-217-31	CERAMIC	56PF	5%	50V
C48B	1-162-217-31	CERAMIC	56PF	5%	50V
C61A	1-162-289-31	CERAMIC	390PF	10%	50V
C61B	1-110-342-11	MYLAR	390PF	5%	50V
C62A	1-136-157-00	FILM	0.022MF	5%	50V
C62B	1-136-157-00	FILM	0.022MF	5%	50V
C63A	1-124-282-00	ELECT	22MF	20%	25V
C63B	1-124-282-00	ELECT	22MF	20%	25V
C64B	1-162-288-31	CERAMIC	330PF	10%	50V
C65B	1-136-273-91	FILM	75PF	5%	630V
C67B	1-162-209-31	CERAMIC	27PF	5%	50V
C68A	1-162-217-31	CERAMIC	56PF	5%	50V
C68B	1-162-217-31	CERAMIC	56PF	5%	50V
C81A	1-126-101-11	ELECT	100MF	20%	16V
C81B	1-126-101-11	ELECT	100MF	20%	16V
C82A	1-126-101-11	ELECT	100MF	20%	16V
C82B	1-126-101-11	ELECT	100MF	20%	16V
C83B	1-124-499-11	ELECT	1MF	20%	50V
C84B	1-124-925-11	ELECT	2.2MF	20%	50V
C85B	1-130-480-00	MYLAR	0.0056MF	5%	50V
C86B	1-130-476-00	MYLAR	0.0027MF	5%	50V
C87B	1-130-476-00	MYLAR	0.0027MF	5%	50V
C88B	1-136-562-11	FILM	0.0082MF	5%	630V
C89B	1-161-494-00	CERAMIC	0.022MF		25V
C90B	1-126-101-11	ELECT	100MF	20%	16V
C101	1-124-925-11	ELECT	2.2MF	20%	50V
C102	1-124-925-11	ELECT	2.2MF	20%	50V
C104	1-124-925-11	ELECT	2.2MF	20%	50V
C106	1-124-927-11	ELECT	4.7MF	20%	50V

Ref.No.	Part No.	Description			
C107	1-136-156-00	FILM	0.018MF	5%	50V
C109	1-136-175-00	FILM	0.68MF	5%	50V
C118	1-124-927-11	ELECT	4.7MF	20%	50V
C119	1-124-767-00	ELECT	2.2MF	20%	50V
C121	1-124-927-11	ELECT	4.7MF	20%	50V
C122	1-124-927-11	ELECT	4.7MF	20%	50V
C123	1-124-477-11	ELECT	47MF	20%	16V
C124	1-136-159-00	FILM	0.033MF	5%	50V
C125	1-130-483-00	MYLAR	0.01MF	5%	50V
C127	1-136-154-00	FILM	0.012MF	5%	50V
C128	1-130-475-00	MYLAR	0.0022MF	5%	50V
C130	1-130-477-00	MYLAR	0.0033MF	5%	50V
C132	1-130-483-00	MYLAR	0.01MF	5%	50V
C133	1-130-471-00	MYLAR	0.001MF	5%	50V
C135	1-136-156-00	FILM	0.018MF	5%	50V
C136	1-130-472-00	MYLAR	0.0012MF	5%	50V
C138	1-162-285-31	CERAMIC	180PF	10%	50V
C201	1-124-925-11	ELECT	2.2MF	20%	50V
C202	1-124-925-11	ELECT	2.2MF	20%	50V
C204	1-124-925-11	ELECT	2.2MF	20%	50V
C206	1-124-927-11	ELECT	4.7MF	20%	50V
C207	1-136-156-00	FILM	0.018MF	5%	50V
C209	1-136-175-00	FILM	0.68MF	5%	50V
C218	1-124-927-11	ELECT	4.7MF	20%	50V
C219	1-124-767-00	ELECT	2.2MF	20%	50V
C221	1-124-927-11	ELECT	4.7MF	20%	50V
C222	1-124-927-11	ELECT	4.7MF	20%	50V
C223	1-124-477-11	ELECT	47MF	20%	16V
C224	1-136-159-00	FILM	0.033MF	5%	50V
C225	1-130-483-00	MYLAR	0.01MF	5%	50V
C227	1-136-154-00	FILM	0.012MF	5%	50V
C228	1-130-475-00	MYLAR	0.0022MF	5%	50V
C230	1-130-477-00	MYLAR	0.0033MF	5%	50V
C232	1-130-483-00	MYLAR	0.01MF	5%	50V
C233	1-130-471-00	MYLAR	0.001MF	5%	50V
C235	1-136-156-00	FILM	0.018MF	5%	50V
C236	1-130-472-00	MYLAR	0.0012MF	5%	50V
C238	1-162-285-31	CERAMIC	180PF	10%	50V
C501	1-124-477-11	ELECT	47MF	20%	16V
C502	1-124-477-11	ELECT	47MF	20%	16V
C505	1-124-477-11	ELECT	47MF	20%	16V
C506	1-124-477-11	ELECT	47MF	20%	16V
C507	1-124-477-11	ELECT	47MF	20%	16V
C508	1-124-477-11	ELECT	47MF	20%	16V
C509	1-124-477-11	ELECT	47MF	20%	16V

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Ref.No.	Part No.	Description			
C510	1-124-477-11	ELECT	47MF	20%	16V
C515	1-124-499-11	ELECT	1MF	20%	50V
C516	1-124-360-00	ELECT	1000MF	20%	16V
C517	1-124-360-00	ELECT	1000MF	20%	16V
C518	1-124-360-00	ELECT	1000MF	20%	16V
C519	1-124-477-11	ELECT	47MF	20%	16V
C520	1-124-556-11	ELECT	2200MF	20%	16V
C521	1-124-887-00	ELECT	3300MF	20%	16V
C524	1-124-927-11	ELECT	4.7MF	20%	50V
C525	1-123-875-11	ELECT	10MF	20%	50V
C526	1-124-925-11	ELECT	2.2MF	20%	50V
C527	1-124-472-11	ELECT	470MF	20%	6.3V
C529	1-161-494-00	CERAMIC	0.022MF		25V
C530	1-161-494-00	CERAMIC	0.022MF		25V
C531	1-161-494-00	CERAMIC	0.022MF		25V
C532	1-161-494-00	CERAMIC	0.022MF		25V
C533	1-161-494-00	CERAMIC	0.022MF		25V
C801	1-126-176-11	ELECT	220MF	20%	10V
C802	1-124-925-11	ELECT	2.2MF	20%	50V
C803	1-124-927-11	ELECT	4.7MF	20%	50V
C805	1-124-477-11	ELECT	47MF	20%	16V
C812	1-126-176-11	ELECT	220MF	20%	10V
CN501	*1-564-340-00	PIN, CONNECTOR 6P			
CN502	*1-564-336-00	PIN, CONNECTOR 2P			
CN503	*1-564-342-11	PIN, CONNECTOR 8P			
CN504	*1-564-338-00	PIN, CONNECTOR 4P			
CN505	*1-564-342-61	PIN, CONNECTOR 8P			
CN506	*1-564-341-71	PIN, CONNECTOR 7P			
CN507	*1-564-342-11	PIN, CONNECTOR 8P			
CN510	*1-566-859-11	SOCKET, CONNECTOR 15P(SYSTEM CONTROL 2)			
CN511	*1-566-858-11	SOCKET, CONNECTOR 11P(SYSTEM CONTROL 1)			
CNP11A	*1-564-501-11	PIN, CONNECTOR 8P			
CNP11B	*1-564-501-11	PIN, CONNECTOR 8P			
CNP12A	*1-564-337-00	PIN, CONNECTOR 3P			
CNP12B	*1-564-337-61	PIN, CONNECTOR 3P			
CNP13A	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNP13B	*1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CNP81A	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CNP81B	*1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			
CNP82A	*1-564-339-00	PIN, CONNECTOR 5P			
CNP82B	*1-564-339-61	PIN, CONNECTOR 5P			
CNP83B	*1-564-338-61	PIN, CONNECTOR 4P			
CP501	1-233-167-11	COMPOSITION CIRCUIT BLOCK			
D11A	8-719-107-94	DIODE 1SS132			
D11B	8-719-107-94	DIODE 1SS132			
D81B	8-719-107-94	DIODE 1SS132			
D101	8-719-000-26	DIODE US1060M			
D201	8-719-000-26	DIODE US1060M			
D502	8-719-933-41	DIODE HZS6C3L			
D503	8-719-200-77	DIODE 10E2N			
D504	8-719-200-77	DIODE 10E2N			
D505	8-719-200-77	DIODE 10E2N			
D506	8-719-200-77	DIODE 10E2N			
D508	8-719-900-33	DIODE HZL-6L2			

Ref.No.	Part No.	Description
D509	8-719-900-33	DIODE HZL-6L2
D513	8-719-200-77	DIODE 10E2N
D514	8-719-000-26	DIODE US1060M
D515	8-719-000-26	DIODE US1060M
D520	8-719-000-26	DIODE US1060M
D521	8-719-000-26	DIODE US1060M
D522	8-719-000-26	DIODE US1060M
D523	8-719-000-51	DIODE UZL-6L2
D525	8-719-200-77	DIODE 10E2N
D526	8-719-200-77	DIODE 10E2N
D527	8-719-200-77	DIODE 10E2N
D804	8-719-300-71	DIODE SEL2210R
D805	8-719-300-71	DIODE SEL2210R
D806	8-719-311-61	DIODE SEL2810D-D
D807	8-719-312-29	DIODE SEL4826D-C
D808	8-719-311-70	DIODE SEL4825D-C
D809	8-719-311-70	DIODE SEL4825D-C
D810	8-719-304-96	DIODE SEL4425G-C
D811	8-719-311-70	DIODE SEL4825D-C
D812	8-719-311-70	DIODE SEL4825D-C
D813	8-719-304-96	DIODE SEL4425G-C
D814	8-719-312-29	DIODE SEL4826D-C
D815	8-719-312-30	DIODE SEL4226R-C
D816	8-719-000-26	DIODE US1060M
D817	8-719-000-26	DIODE US1060M
D818	8-719-200-77	DIODE 10E2N
D819	8-719-200-77	DIODE 10E2N
D820	8-719-200-77	DIODE 10E2N
D822	8-719-000-26	DIODE US1060M
D823	8-719-000-26	DIODE US1060M
D824	8-719-000-26	DIODE US1060M
D827	8-719-000-26	DIODE US1060M
D828	8-719-000-26	DIODE US1060M
FL501	1-519-552-11	INDICATOR TUBE, FLUORESCENT
HE901 HRP901	A-2108-130-A	(DECK B)...CHASSIS ASSY, HEAD
HP901	A-2108-129-A	(DECK A)...CHASSIS ASSY, HEAD
IC81A	8-759-111-44	IC UPC4570C-1
IC81B	8-759-111-44	IC UPC4570C-1
IC501	8-759-601-02	IC M5218P
IC504	8-759-601-02	IC M5218P
IC505	8-759-040-53	IC MC14053BCP
IC506	8-752-031-67	IC CXA1100P
IC507	8-759-601-02	IC M5218P
IC509	8-759-601-23	IC M4023BP
IC510	8-759-945-58	IC RC4558P
IC801	8-759-983-68	IC MB88517B-1023N
IC802	8-759-601-38	IC M4050BP
IC803	8-759-633-22	IC M50964-210SP
L41B	1-410-780-11	INDUCTOR 27MMH
L61B	1-410-780-11	INDUCTOR 27MMH
L101	1-410-775-21	INDUCTOR 10MMH
L102	1-410-775-21	INDUCTOR 10MMH
L201	1-410-775-21	INDUCTOR 10MMH
L202	1-410-775-21	INDUCTOR 10MMH

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Ref.No.	Part No.	Description
LPF101	1-236-087-11	FILTER, LOW PASS
LPF201	1-236-087-11	FILTER, LOW PASS
M901A	X-3343-408-1	(DECK A)...MOTOR ASSY
M901B	X-3343-408-1	(DECK B)...MOTOR ASSY
PM901A	1-454-456-11	(DECK A)...SOLENOID, PLUNGER
PM901B	1-454-456-11	(DECK B)...SOLENOID, PLUNGER
Q11A	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q11B	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q12A	8-719-939-23	?TRANSISTOR GP2S09-C
Q12B	8-719-939-23	?TRANSISTOR GP2S09-C
Q81B	8-729-111-29	TRANSISTOR 2SD1388
Q82B	8-729-100-12	TRANSISTOR 2SC2001-L
Q83B	8-729-100-12	TRANSISTOR 2SC2001-L
Q108	8-729-900-74	TRANSISTOR DTC143TS
Q109	8-729-806-28	TRANSISTOR 2SC3402
Q110	8-729-900-74	TRANSISTOR DTC143TS
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q117	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q119	8-729-806-28	TRANSISTOR 2SC3402
Q208	8-729-900-74	TRANSISTOR DTC143TS
Q209	8-729-806-28	TRANSISTOR 2SC3402
Q210	8-729-900-74	TRANSISTOR DTC143TS
Q211	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q212	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q213	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q215	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q217	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q219	8-729-806-28	TRANSISTOR 2SC3402
Q501	8-729-806-10	TRANSISTOR 2SA1348
Q502	8-729-806-10	TRANSISTOR 2SA1348
Q503	8-729-806-10	TRANSISTOR 2SA1348
Q504	8-729-806-10	TRANSISTOR 2SA1348
Q507	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q508	8-729-920-91	TRANSISTOR 2SB1187-F
Q509	8-729-920-91	TRANSISTOR 2SB1187-F
Q510	8-729-808-76	TRANSISTOR 2SD1761-E
Q515	8-729-806-10	TRANSISTOR 2SA1348
Q516	8-729-806-28	TRANSISTOR 2SC3402
Q517	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q518	8-729-806-28	TRANSISTOR 2SC3402
Q519	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q806	8-729-806-10	TRANSISTOR 2SA1348
Q807	8-729-806-10	TRANSISTOR 2SA1348
Q808	8-729-806-10	TRANSISTOR 2SA1348
Q810	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q811	8-729-806-10	TRANSISTOR 2SA1348
Q812	8-729-806-28	TRANSISTOR 2SC3402
Q813	8-729-806-10	TRANSISTOR 2SA1348
Q814	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q815	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q816	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q817	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q818	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q819	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q822	8-729-806-10	TRANSISTOR 2SA1348
Q824	8-729-806-10	TRANSISTOR 2SA1348
Q825	8-729-802-22	TRANSISTOR 2SB1014
Q826	8-729-806-10	TRANSISTOR 2SA1348
Q827	8-729-801-93	TRANSISTOR 2SD1387
Q828	8-729-806-10	TRANSISTOR 2SA1348
Q829	8-729-801-93	TRANSISTOR 2SD1387
Q830	8-729-802-22	TRANSISTOR 2SB1014
Q831	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q832	8-729-802-22	TRANSISTOR 2SB1014
Q833	8-729-806-10	TRANSISTOR 2SA1348
R11B	1-247-834-11	CARBON 1.3K 5% 1/4W
R12B	1-249-414-11	CARBON 560 5% 1/4W
R13B	1-247-818-11	CARBON 300 5% 1/4W
R14A	1-249-408-11	CARBON 180 5% 1/4W
R14B	1-249-408-11	CARBON 180 5% 1/4W
R17A	1-249-437-11	CARBON 47K 5% 1/4W
R17B	1-249-437-11	CARBON 47K 5% 1/4W
R18A	1-249-437-11	CARBON 47K 5% 1/4W
R18B	1-249-437-11	CARBON 47K 5% 1/4W
R41A	1-247-881-00	CARBON 120K 5% 1/4W
R41B	1-247-881-00	CARBON 120K 5% 1/4W
R42A	1-249-405-11	CARBON 100 5% 1/4W
R42B	1-249-405-11	CARBON 100 5% 1/4W
R43A	1-247-882-11	CARBON 130K 5% 1/4W
R43B	1-247-882-11	CARBON 130K 5% 1/4W
R44A	1-249-426-11	CARBON 5.6K 5% 1/4W
R44B	1-249-426-11	CARBON 5.6K 5% 1/4W
R45B	1-249-430-11	CARBON 12K 5% 1/4W
R61A	1-247-881-00	CARBON 120K 5% 1/4W
R61B	1-247-881-00	CARBON 120K 5% 1/4W
R62A	1-249-405-11	CARBON 100 5% 1/4W
R62B	1-249-405-11	CARBON 100 5% 1/4W
R63A	1-247-882-11	CARBON 130K 5% 1/4W
R63B	1-247-882-11	CARBON 130K 5% 1/4W
R64A	1-249-426-11	CARBON 5.6K 5% 1/4W
R64B	1-249-426-11	CARBON 5.6K 5% 1/4W
R65B	1-249-430-11	CARBON 12K 5% 1/4W
R81A	1-249-409-11	CARBON 220 5% 1/4W
R81B	1-249-409-11	CARBON 220 5% 1/4W
R82A	1-249-409-11	CARBON 220 5% 1/4W
R82B	1-249-409-11	CARBON 220 5% 1/4W
R83B	1-249-429-11	CARBON 10K 5% 1/4W
R84B ⚠	1-212-849-00	FUSIBLE 4.7 5% 1/4W F
R85B	1-249-435-11	CARBON 33K 5% 1/4W
R86B	1-249-435-11	CARBON 33K 5% 1/4W
R101	1-249-417-11	CARBON 1K 5% 1/4W
R102	1-249-436-11	CARBON 39K 5% 1/4W
R103	1-249-441-11	CARBON 100K 5% 1/4W
R104	1-249-433-11	CARBON 22K 5% 1/4W
R105	1-249-433-11	CARBON 22K 5% 1/4W

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

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Ref.No.	Part No.	Description			
R106	1-249-433-11	CARBON	22K	5%	1/4W
R112	1-249-423-11	CARBON	3.3K	5%	1/4W
R113	1-249-436-11	CARBON	39K	5%	1/4W
R119	1-249-429-11	CARBON	10K	5%	1/4W
R120	1-249-421-11	CARBON	2.2K	5%	1/4W
R122	1-249-436-11	CARBON	39K	5%	1/4W
R123	1-249-429-11	CARBON	10K	5%	1/4W
R124	1-249-437-11	CARBON	47K	5%	1/4W
R125	1-249-429-11	CARBON	10K	5%	1/4W
R126	1-249-397-11	CARBON	22	5%	1/4W
R128	1-247-887-00	CARBON	220K	5%	1/4W
R129	1-249-424-11	CARBON	3.9K	5%	1/4W
R130	1-249-423-11	CARBON	3.3K	5%	1/4W
R138	1-249-429-11	CARBON	10K	5%	1/4W
R139	1-249-429-11	CARBON	10K	5%	1/4W
R140	1-249-421-11	CARBON	2.2K	5%	1/4W
R141	1-249-441-11	CARBON	100K	5%	1/4W
R142	1-247-887-00	CARBON	220K	5%	1/4W
R143	1-249-421-11	CARBON	2.2K	5%	1/4W
R144	1-249-437-11	CARBON	47K	5%	1/4W
R145	1-249-437-11	CARBON	47K	5%	1/4W
R146	1-249-409-11	CARBON	220	5%	1/4W
R147	1-249-427-11	CARBON	6.8K	5%	1/4W
R148	1-247-848-11	CARBON	5.1K	5%	1/4W
R151	1-249-441-11	CARBON	100K	5%	1/4W
R152	1-249-407-11	CARBON	150	5%	1/4W
R153	1-249-417-11	CARBON	1K	5%	1/4W
R154	1-249-426-11	CARBON	5.6K	5%	1/4W
R157	1-249-441-11	CARBON	100K	5%	1/4W
R158	1-249-421-11	CARBON	2.2K	5%	1/4W
R159	1-249-437-11	CARBON	47K	5%	1/4W
R160	1-249-437-11	CARBON	47K	5%	1/4W
R162	1-249-425-11	CARBON	4.7K	5%	1/4W
R164	1-249-437-11	CARBON	47K	5%	1/4W
R167	1-247-840-00	CARBON	2.4K	5%	1/4W
R168	1-247-887-00	CARBON	220K	5%	1/4W
R170	1-249-438-11	CARBON	56K	5%	1/4W
R171	1-249-437-11	CARBON	47K	5%	1/4W
R201	1-249-417-11	CARBON	1K	5%	1/4W
R202	1-249-436-11	CARBON	39K	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-249-433-11	CARBON	22K	5%	1/4W
R205	1-249-433-11	CARBON	22K	5%	1/4W
R206	1-249-433-11	CARBON	22K	5%	1/4W
R212	1-249-423-11	CARBON	3.3K	5%	1/4W
R213	1-249-436-11	CARBON	39K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-421-11	CARBON	2.2K	5%	1/4W
R222	1-249-436-11	CARBON	39K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-437-11	CARBON	47K	5%	1/4W
R225	1-249-429-11	CARBON	10K	5%	1/4W
R226	1-249-397-11	CARBON	22	5%	1/4W
R228	1-247-887-00	CARBON	220K	5%	1/4W
R229	1-249-424-11	CARBON	3.9K	5%	1/4W
R230	1-249-423-11	CARBON	3.3K	5%	1/4W
R238	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description			
R239	1-249-429-11	CARBON	10K	5%	1/4W
R240	1-249-421-11	CARBON	2.2K	5%	1/4W
R241	1-249-441-11	CARBON	100K	5%	1/4W
R242	1-247-887-00	CARBON	220K	5%	1/4W
R243	1-249-421-11	CARBON	2.2K	5%	1/4W
R244	1-249-437-11	CARBON	47K	5%	1/4W
R245	1-249-437-11	CARBON	47K	5%	1/4W
R246	1-249-409-11	CARBON	220	5%	1/4W
R247	1-249-427-11	CARBON	6.8K	5%	1/4W
R248	1-247-848-11	CARBON	5.1K	5%	1/4W
R251	1-249-441-11	CARBON	100K	5%	1/4W
R252	1-249-407-11	CARBON	150	5%	1/4W
R253	1-249-417-11	CARBON	1K	5%	1/4W
R254	1-249-426-11	CARBON	5.6K	5%	1/4W
R257	1-249-441-11	CARBON	100K	5%	1/4W
R258	1-249-421-11	CARBON	2.2K	5%	1/4W
R259	1-249-437-11	CARBON	47K	5%	1/4W
R260	1-249-437-11	CARBON	47K	5%	1/4W
R262	1-249-425-11	CARBON	4.7K	5%	1/4W
R264	1-249-437-11	CARBON	47K	5%	1/4W
R267	1-247-840-00	CARBON	2.4K	5%	1/4W
R268	1-247-887-00	CARBON	220K	5%	1/4W
R270	1-249-438-11	CARBON	56K	5%	1/4W
R271	1-249-437-11	CARBON	47K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-215-460-00	METAL	43K	1%	1/6W
R505	1-249-405-11	CARBON	100	5%	1/4W
R506	1-249-405-11	CARBON	100	5%	1/4W
R508	1-249-437-11	CARBON	47K	5%	1/4W
R509	1-249-425-11	CARBON	4.7K	5%	1/4W
R510	1-249-441-11	CARBON	100K	5%	1/4W
R511	1-249-429-11	CARBON	10K	5%	1/4W
R512	1-249-411-11	CARBON	330	5%	1/4W
R513	1-247-844-11	CARBON	3.6K	5%	1/4W
R514	1-249-429-11	CARBON	10K	5%	1/4W
R515	1-249-421-11	CARBON	2.2K	5%	1/4W
R552	1-249-425-11	CARBON	4.7K	5%	1/4W
R565	1-249-437-11	CARBON	47K	5%	1/4W
R567	1-249-420-11	CARBON	1.8K	5%	1/4W
R568	1-249-427-11	CARBON	6.8K	5%	1/4W
R569	1-249-427-11	CARBON	6.8K	5%	1/4W
R570	1-247-854-11	CARBON	9.1K	5%	1/4W
R571	1-249-419-11	CARBON	1.5K	5%	1/4W
R572	1-249-417-11	CARBON	1K	5%	1/4W
R573	1-249-419-11	CARBON	1.5K	5%	1/4W
R574	1-249-427-11	CARBON	6.8K	5%	1/4W
R575	1-249-420-11	CARBON	1.8K	5%	1/4W
R579	1-249-433-11	CARBON	22K	5%	1/4W
R581	1-249-417-11	CARBON	1K	5%	1/4W
R582	1-249-425-11	CARBON	4.7K	5%	1/4W
R585	1-249-421-11	CARBON	2.2K	5%	1/4W
R586	1-249-425-11	CARBON	4.7K	5%	1/4W
R587	1-247-887-00	CARBON	220K	5%	1/4W
R588	1-249-439-11	CARBON	68K	5%	1/4W
R589	1-249-417-11	CARBON	1K	5%	1/4W
R590	1-249-409-11	CARBON	220	5%	1/4W

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Ref.No.	Part No.	Description			
R591	1-249-409-11	CARBON	220	5%	1/4W
R801	1-249-429-11	CARBON	10K	5%	1/4W
R802	1-249-427-11	CARBON	6.8K	5%	1/4W
R803	1-249-422-11	CARBON	2.7K	5%	1/4W
R804	1-249-430-11	CARBON	12K	5%	1/4W
R805	1-249-437-11	CARBON	47K	5%	1/4W
R806	1-249-437-11	CARBON	47K	5%	1/4W
R807	1-249-425-11	CARBON	4.7K	5%	1/4W
R809	1-249-416-11	CARBON	820	5%	1/4W
R810	1-249-419-11	CARBON	1.5K	5%	1/4W
R811	1-249-422-11	CARBON	2.7K	5%	1/4W
R812	1-249-427-11	CARBON	6.8K	5%	1/4W
R828	1-249-424-11	CARBON	3.9K	5%	1/4W
R830	1-249-426-11	CARBON	5.6K	5%	1/4W
R831	1-249-430-11	CARBON	12K	5%	1/4W
R832	1-249-412-11	CARBON	390	5%	1/4W
R833	1-249-411-11	CARBON	330	5%	1/4W
R834	1-249-413-11	CARBON	470	5%	1/4W
R835	1-249-415-11	CARBON	680	5%	1/4W
R838	1-249-421-11	CARBON	2.2K	5%	1/4W
R839	1-249-421-11	CARBON	2.2K	5%	1/4W
R840	1-249-417-11	CARBON	1K	5%	1/4W
R841	1-249-415-11	CARBON	680	5%	1/4W
R842	1-249-407-11	CARBON	150	5%	1/4W
R843	1-249-409-11	CARBON	220	5%	1/4W
R844	1-249-411-11	CARBON	330	5%	1/4W
R845	1-249-421-11	CARBON	2.2K	5%	1/4W
R846	1-249-417-11	CARBON	1K	5%	1/4W
R847	1-249-420-11	CARBON	1.8K	5%	1/4W
R848	1-247-832-11	CARBON	1.1K	5%	1/4W
R849	1-249-407-11	CARBON	150	5%	1/4W
R850	1-249-409-11	CARBON	220	5%	1/4W
R851	1-249-411-11	CARBON	330	5%	1/4W
R852	1-249-413-11	CARBON	470	5%	1/4W
R853	1-249-429-11	CARBON	10K	5%	1/4W
R854	1-249-429-11	CARBON	10K	5%	1/4W
R855	1-249-429-11	CARBON	10K	5%	1/4W
R856	1-249-393-11	CARBON	10	5%	1/4W
R857	1-249-442-11	CARBON	510	5%	1/4W
R858	1-249-413-11	CARBON	470	5%	1/4W
R859	1-249-407-11	CARBON	150	5%	1/4W
R860	1-249-407-11	CARBON	150	5%	1/4W
R861	1-249-407-11	CARBON	150	5%	1/4W
R862	1-249-407-11	CARBON	150	5%	1/4W
R863	1-249-407-11	CARBON	150	5%	1/4W

Ref.No.	Part No.	Description			
R864	1-249-407-11	CARBON	150	5%	1/4W
R866	1-249-417-11	CARBON	1K	5%	1/4W
R867	1-249-413-11	CARBON	470	5%	1/4W
R868	1-249-425-11	CARBON	4.7K	5%	1/4W
R870	1-249-442-11	CARBON	510	5%	1/4W
R871	1-249-442-11	CARBON	510	5%	1/4W
R872	1-249-413-11	CARBON	470	5%	1/4W
R873	1-249-425-11	CARBON	4.7K	5%	1/4W
R874	1-249-425-11	CARBON	4.7K	5%	1/4W
R875	1-249-429-11	CARBON	10K	5%	1/4W
R876	1-249-425-11	CARBON	4.7K	5%	1/4W
R877	1-247-895-00	CARBON	470K	5%	1/4W
R878	1-249-436-11	CARBON	39K	5%	1/4W
R879	1-249-388-11	CARBON	3.9	5%	1/4W
R880	1-249-421-11	CARBON	2.2K	5%	1/4W
R881	1-249-433-11	CARBON	22K	5%	1/4W
R882	1-249-417-11	CARBON	1K	5%	1/4W
R883	1-249-417-11	CARBON	1K	5%	1/4W
R884	1-249-433-11	CARBON	22K	5%	1/4W
R885	1-249-421-11	CARBON	2.2K	5%	1/4W
R886	1-249-388-11	CARBON	3.9	5%	1/4W
R887	1-249-433-11	CARBON	22K	5%	1/4W
R888	1-249-417-11	CARBON	1K	5%	1/4W
R889	1-249-425-11	CARBON	4.7K	5%	1/4W
R890	1-247-895-00	CARBON	470K	5%	1/4W
R891	1-249-436-11	CARBON	39K	5%	1/4W
R896	1-249-436-11	CARBON	39K	5%	1/4W
R900	1-249-436-11	CARBON	39K	5%	1/4W
R902	1-247-903-00	CARBON	1M	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-247-903-00	CARBON	1M	5%	1/4W
R905	1-249-425-11	CARBON	4.7K	5%	1/4W
R906	1-249-425-11	CARBON	4.7K	5%	1/4W
RV41A	1-228-989-00	RES, ADJ, CARBON 470			
RV41B	1-228-989-00	RES, ADJ, CARBON 470			
RV42B	1-230-500-11	RES, ADJ, CARBON 220K			
RV61A	1-228-989-00	RES, ADJ, CARBON 470			
RV61B	1-228-989-00	RES, ADJ, CARBON 470			
RV62B	1-230-500-11	RES, ADJ, CARBON 220K			
RV102	1-228-994-00	RES, ADJ, CARBON 10K			
RV202	1-228-994-00	RES, ADJ, CARBON 10K			
RV501	1-238-300-11	RES, VAR, CARBON 10K/10K(REC LEVEL)			
RY81B	1-515-614-11	RELAY			

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Ref.No.	Part No.	Description
S11A	1-571-281-21	SWITCH, LEAF (HALF DET)
S11B	1-571-281-21	SWITCH, LEAF (HALF DET)
S12B	1-571-281-21	SWITCH, LEAF (SIDE A ERASE PROOF)
S13B	1-571-281-21	SWITCH, LEAF (SIDE B ERASE PROOF)
S14A	1-571-281-21	SWITCH, LEAF (CrO2)
S14B	1-571-281-21	SWITCH, LEAF (CrO2)
S501	1-570-974-11	SWITCH, SLIDE (DOLBY NR)
S502	1-571-520-21	SWITCH, SLIDE (DIRECTION MODE)
S802	1-554-303-21	SWITCH, KEY BOARD (HIGH SPEED)
S803	1-554-303-21	SWITCH, KEY BOARD (NORMAL SPEED)
S805	1-554-303-21	SWITCH, KEY BOARD (AUTO PAUSE)
S806	1-554-303-21	SWITCH, KEY BOARD (DECK A: ◀◀)
S807	1-554-303-21	SWITCH, KEY BOARD (DECK A: ▶▶)
S808	1-554-303-21	SWITCH, KEY BOARD (DECK A: ■)
S809	1-554-303-21	SWITCH, KEY BOARD (DECK A PAUSE)
S810	1-554-303-21	SWITCH, KEY BOARD (DECK A: ▶)
S811	1-554-303-21	SWITCH, KEY BOARD (DECK A: ◀)
S812	1-554-303-21	SWITCH, KEY BOARD (DECK B: ◀◀)
S813	1-554-303-21	SWITCH, KEY BOARD (DECK B: ▶▶)
S814	1-554-303-21	SWITCH, KEY BOARD (DECK B REC)
S815	1-554-303-21	SWITCH, KEY BOARD (DECK B: ■)
S816	1-554-303-21	SWITCH, KEY BOARD (DECK B PAUSE)
S817	1-554-303-21	SWITCH, KEY BOARD (DECK B: ▶)
S818	1-554-303-21	SWITCH, KEY BOARD (DECK B: ◀)
S819	1-554-303-21	SWITCH, KEY BOARD (DECK B REC MUTE)
S821	1-554-303-21	SWITCH, KEY BOARD (DECK A/B)
S822	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S823	1-554-303-21	SWITCH, KEY BOARD (RESET)
T81B	1-433-337-11	TRANSFORMER, BIAS OSCILLATION
TP1	*1-564-336-00	PIN, CONNECTOR 2P
X801	1-577-358-21	VIBRATOR, CERAMIC 4MHz
X802	1-577-360-11	VIBRATOR, CERAMIC 6MHz

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