

TC-C5

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model*



SPECIFICATIONS

Recording system 4-track 2-channel stereo
Fast-winding time Approx. 90 sec. (with Sony C-60 cassette)
Bias AC bias
Heads Erasing head × 1 (ferrite head)
Playback/Recording head × 1 (LA head)
Motors Capstan motor × 1 (DC servo motor)
Reel motor × 1 (DC motor)
ASIST (mechanical drive) motor × 3 (DC motor)

Signal-to-noise ratio (at peak level)

Cassette \ Dolby NR switch	OFF	B-Type ON	C-Type ON
Type IV (Sony METAL-SLT)	59 dB	67 dB	74 dB
Type II (Sony UX-S)	58 dB	66 dB	73 dB
Type I (Sony HF-S)	56 dB	64 dB	71 dB

Total harmonic distortion 1% (with Sony METAL-SLT cassette)

Frequency response (DOLBY NR OFF)

Type IV cassette (Sony METAL-SLT)	20 - 19,000 Hz (±3 dB, IEC) 30 - 15,000 Hz [±3 dB 0VU (-4 dB) recording]
Type II cassette (Sony UX-S)	25 - 17,000 Hz (±3 dB, IEC)
Type I cassette (Sony HF-S)	25 - 16,000 Hz (±3 dB, IEC)

Wow and flutter ±0.09% W. Peak (IEC)
0.06% WRMS (NAB)
±0.16% W. Peak (DIN)

Model Name Using Similar Mechanism	TC-WR820
Tape Transport Mechanism Type	TCM-200R30

Line inputs (phono jacks)

Sensitivity 77.5 mV
Input impedance 47 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.32 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0.3 mW at a load impedance of 32 ohms

General

Power requirements US, Canadian model : 120V AC, 60Hz
AEP, Germany model : 220-230V AC, 50/60Hz
UK model : 240V AC, 50/60Hz

Power consumption 20 W

Dimensions Approx. 430 × 135 × 350 mm (w/h/d)
(17 × 5³/₈ × 13⁷/₈ inches)
including projecting parts and controls
Weight Approx. 6.7 kg (14 lb 13 oz)

Supplied accessories

Audio connecting cords (2)
Wireless remote commander RM-J801(1)
Sony size-AA (R6) batteries(2)

Design and specifications are subject to change without notice.

STEREO CASSETTE DECK
SONY®

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.



SAFETY CHECK-OUT

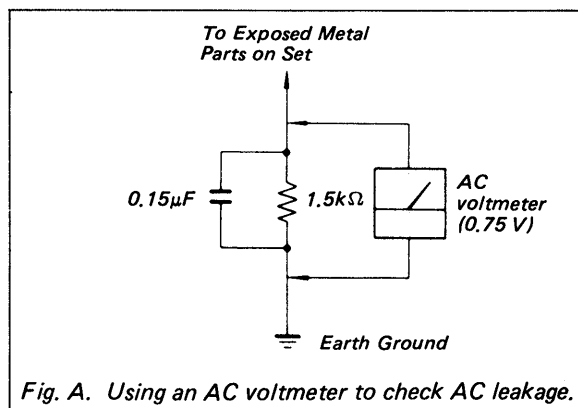
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

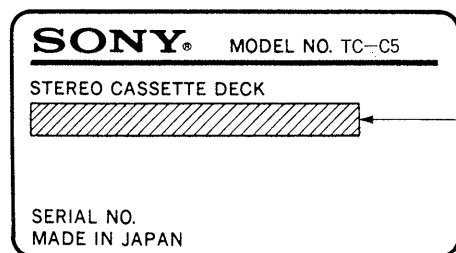
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



MODEL IDENTIFICATION

—Specification Label—



US, Canadian model: AC120V 60Hz 20W
AEP, Germany model: AC220-230V~50/60Hz
UK model: AC240V~50/60Hz

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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.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

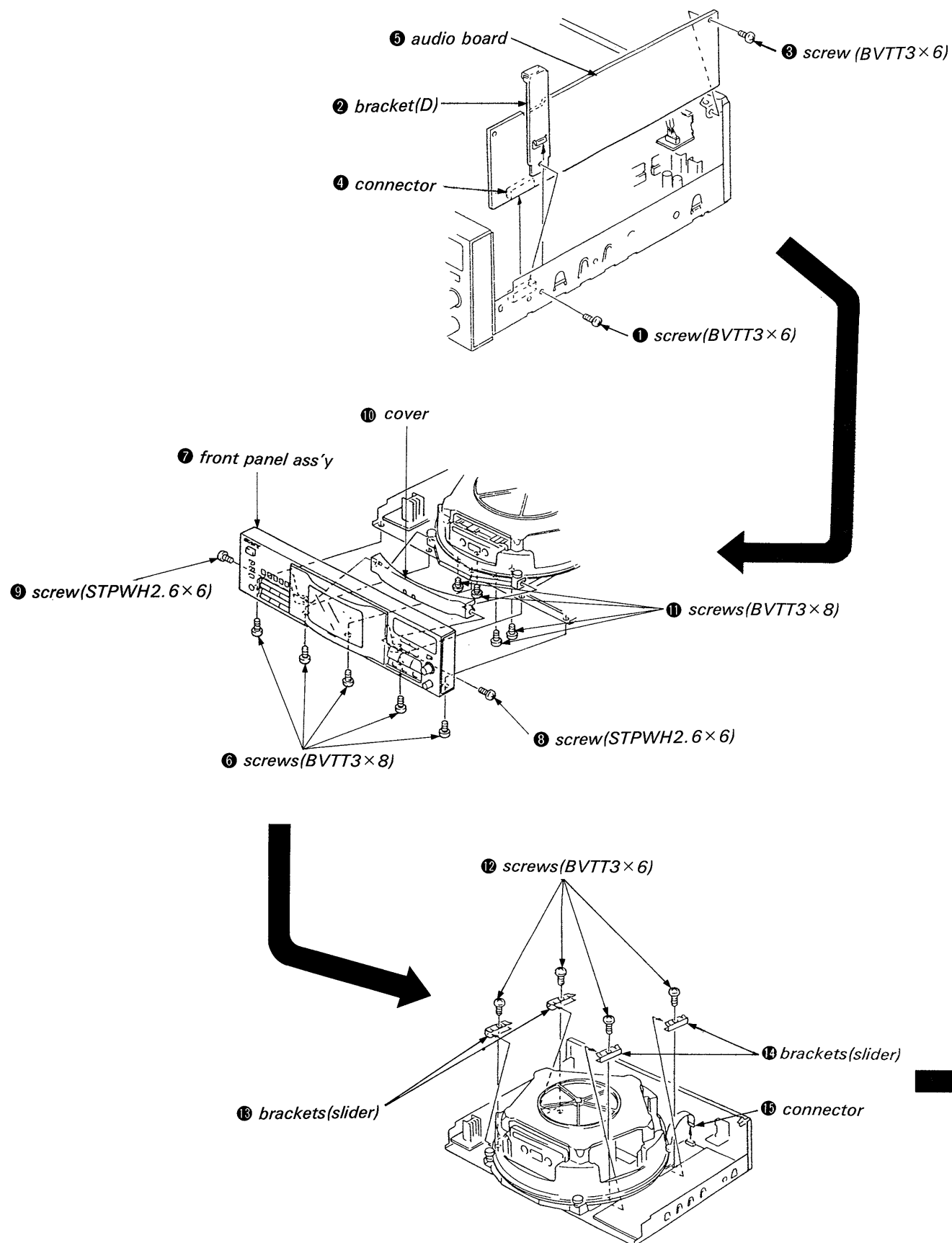
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

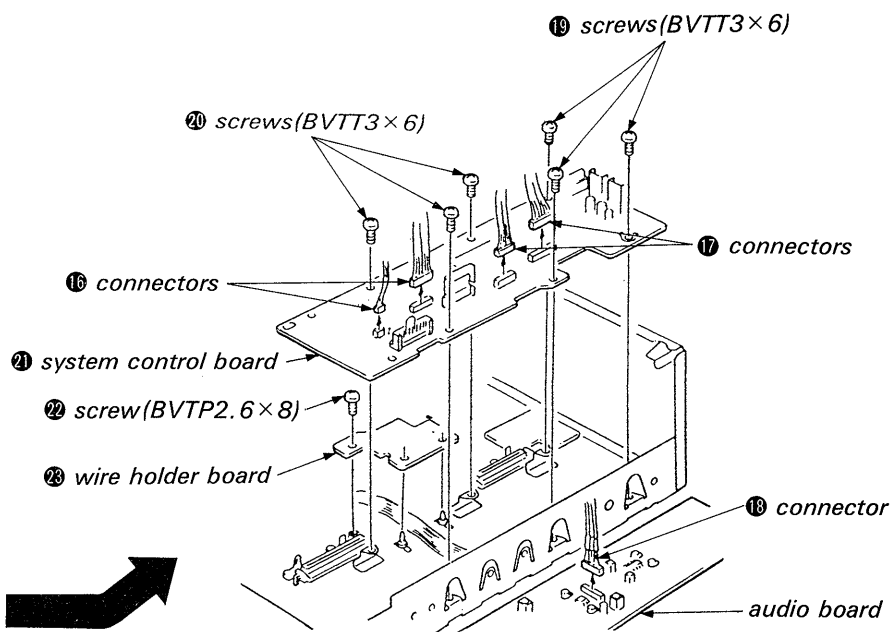
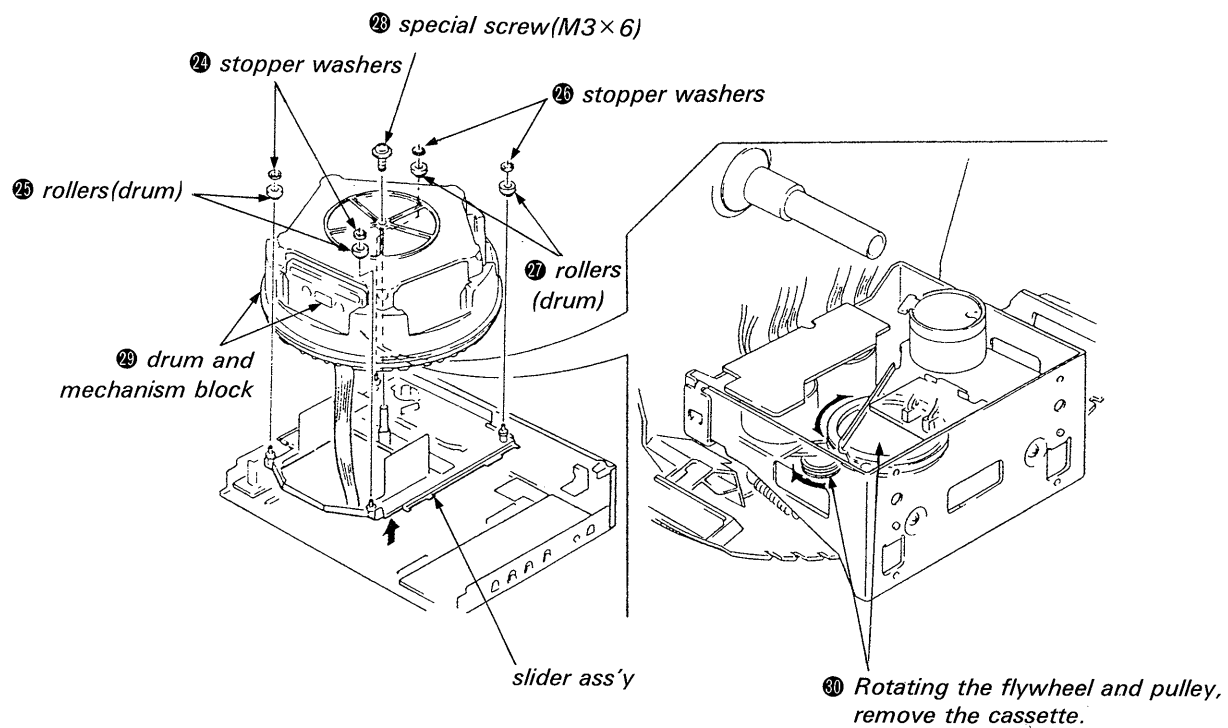
SERVICE NOTE

Notes on Repair

Be sure to follow these instructions if the tape is jammed in the mechanism.

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





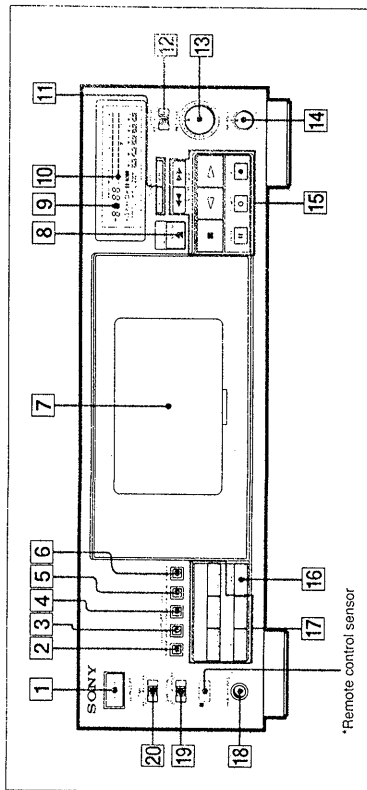
SECTION 1 GENERAL

This section is extracted from instruction manual.

7

Identifying the Parts

Front Panel



*Remote control sensor

For details, refer to the page number indicated in ●

- 1 POWER switch
- 2 PROGRAM button ●
- 3 SHUFFLE button ●
- 4 SYNC MODE button ●
- 5 ALL REW (rewind) button ●
- 6 BLK (blank) SKIP button ●
- 7 Cassette holders
- 8 OPEN/CLOSE button
- 9 LINEAR COUNTER ●
- 10 PEAK LEVEL METER ●
- 11 COUNTER buttons
RESET button ●
MEMORY button ●
- 12 DOLBY NR (noise reduction) switch ● ● ● ● ●
- 13 REC (recording) LEVEL control ● ● ●
- 14 BALANCE control ● ●
- 15 Tape operation buttons
◀◀ (leftward fast winding) button
▶▶ (rightward fast winding) button
■ (stop) button
◀ (reverse play) button
▶ (forward play) button
⏸ PAUSE button
● REC MUTE (record muting) button ●
● REC (record) button
- 16 SKIP button ● ● ● ● ●
- 17 Cassette buttons ● ● ● ● ●
- 18 HEADPHONES jack (stereo phone jack)
- 19 DIRECTION mode switch ● ● ● ● ●
- 20 TIMER switch ●

*Remote control sensor

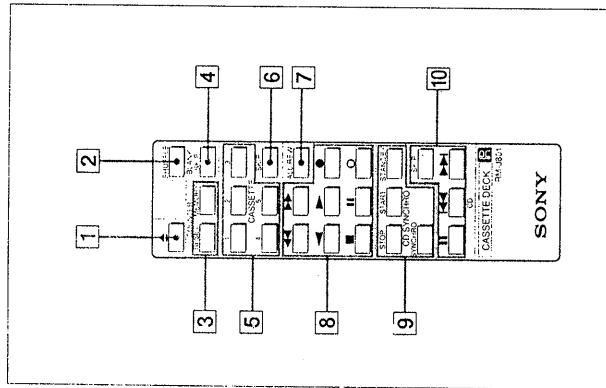
You can remotely control this cassette deck with:
— A remote commander that came with a Sony amplifier or receiver if it has the mark and cassette deck control capability.
— An optional Sony remote commander with the mark and cassette deck control capability.

Remote Commander

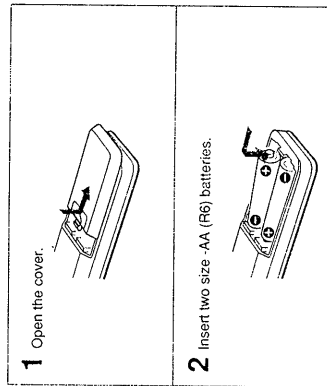
The controls on the remote commander are identical in function and operation to those with the same name on the main unit.

For details, refer to the page number indicated in ●

- 1 (open/close) button
- 2 SHUFFLE button ●
- 3 COUNTER buttons ●
- 4 BLANK SKIP button ●
- 5 CASSETTE buttons ● ● ● ● ●
- 6 SKIP button ● ● ● ● ●
- 7 ALL REW (rewind) button ●
- 8 Tape operation buttons
- 9 CD SYNCHRO buttons ●
for synchronized recording with a Sony CD player
- 10 CD (Compact Disc) buttons
SKIP button
⏸ (pause) button
◀◀ ▶▶ buttons for locating selections sequentially



Installing Batteries into the Remote Commander



On battery life

- About half a year of normal operation can be expected when using the Sony SUM-3(NS) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

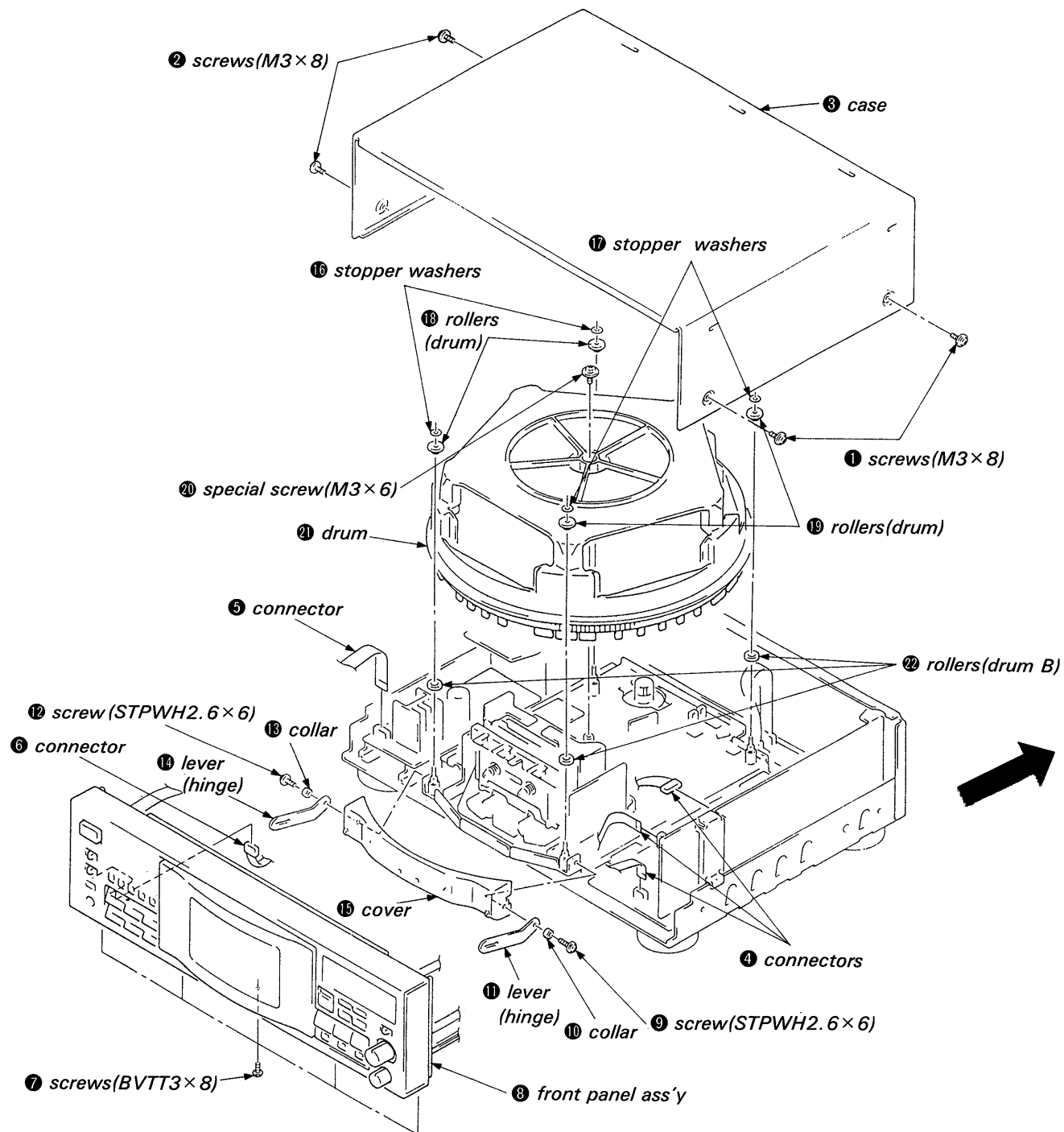
On handling

- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the commander casing, particularly when replacing the batteries.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus. Such exposure can cause a malfunction.
- To avoid damage caused by battery leakage and corrosion, remove the batteries when the commander will not be used for a long time.

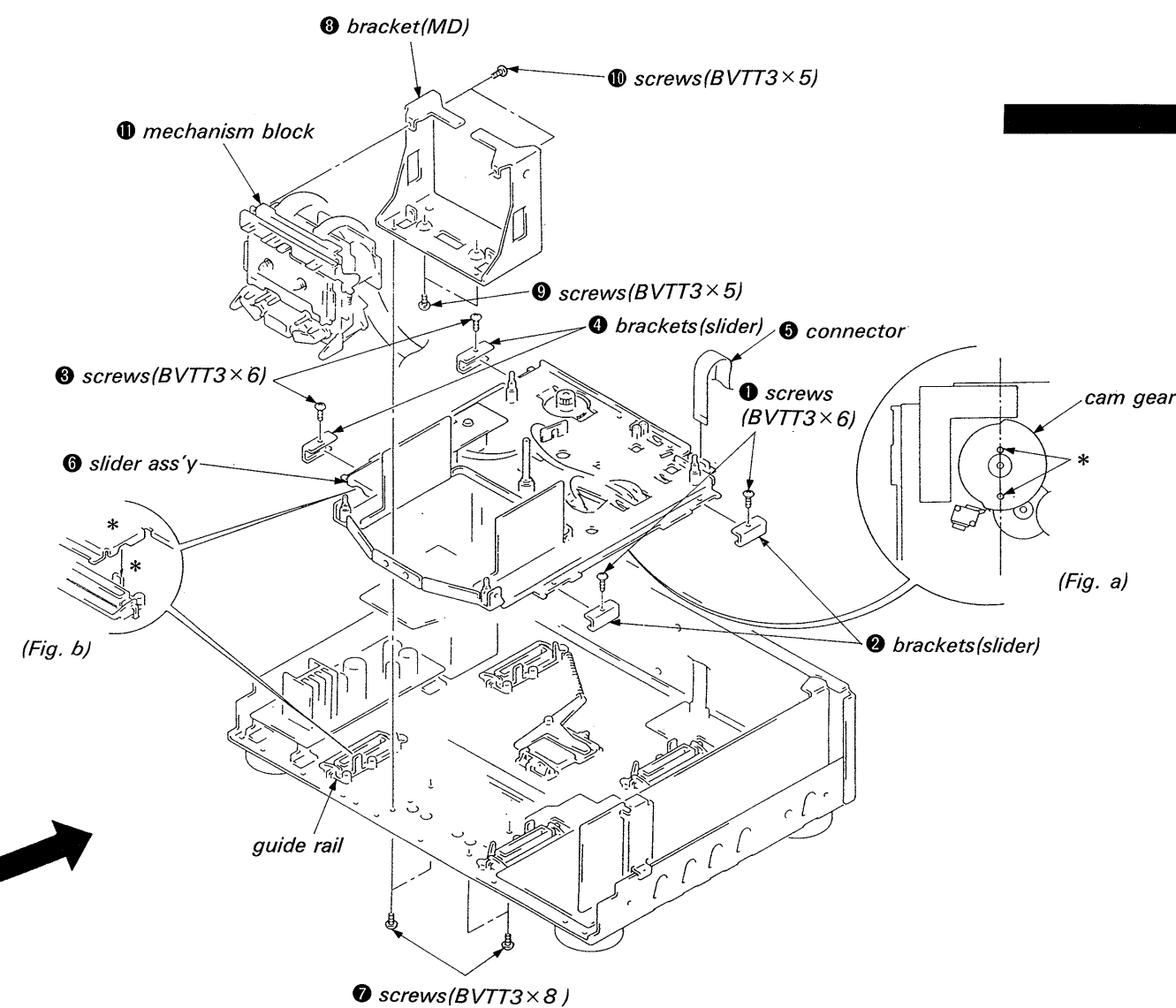
SECTION 2 DISASSEMBLY

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

DRUM



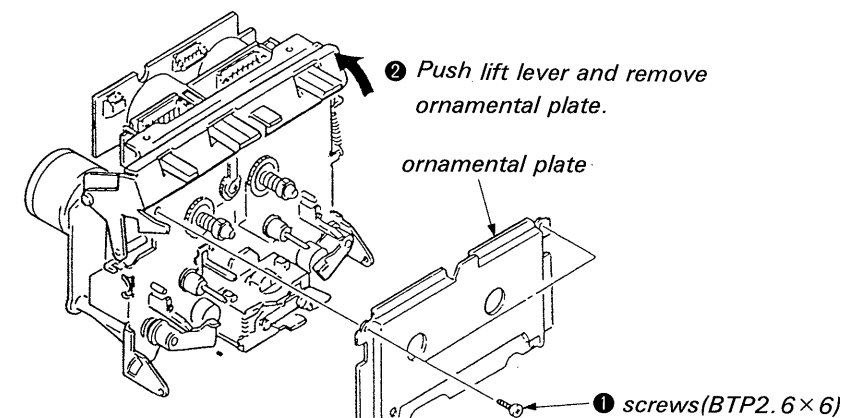
MECHANISM BLOCK



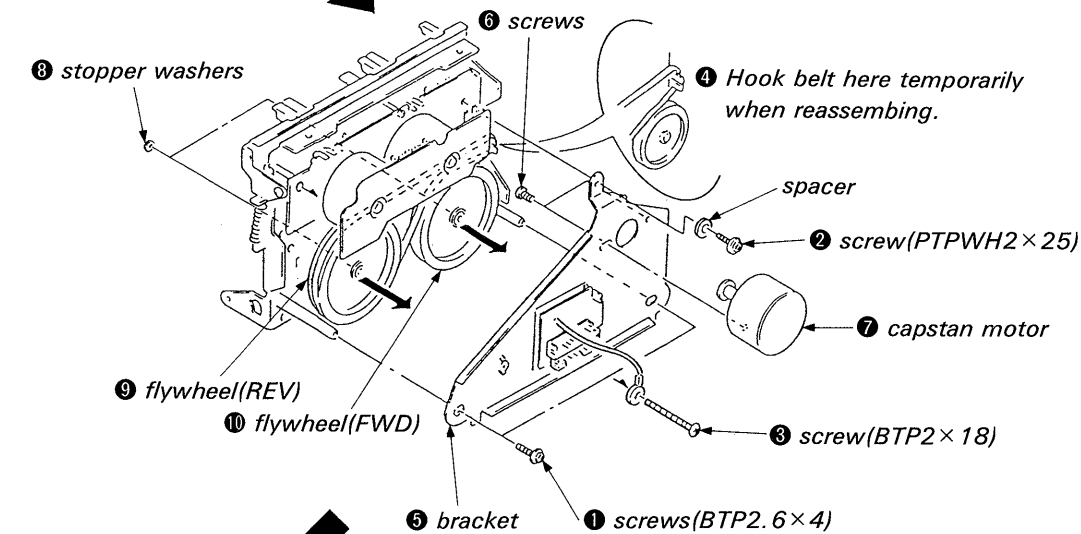
(Installation)

1. Rotate the cam gear so that two bosses marked with * are aligned as shown in Fig. a.
2. Insert the shaft into guide rail while aligning a notched face marked with * with the end face marked with * of guide rail as shown in Fig. b.

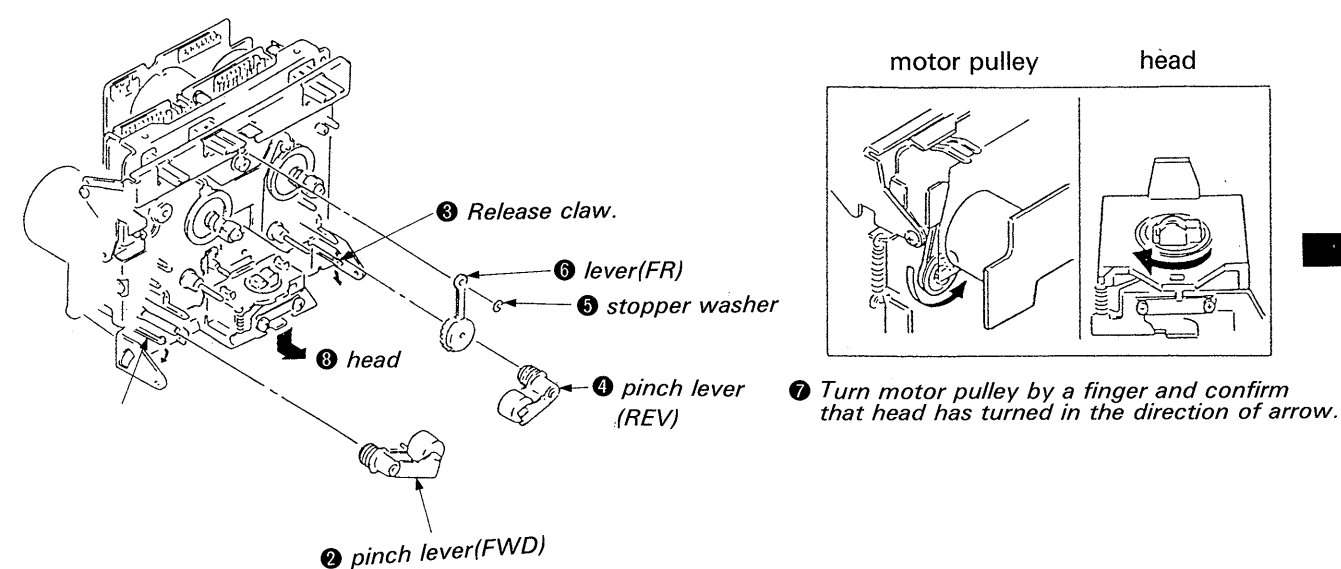
ORNAMENTAL PLATE



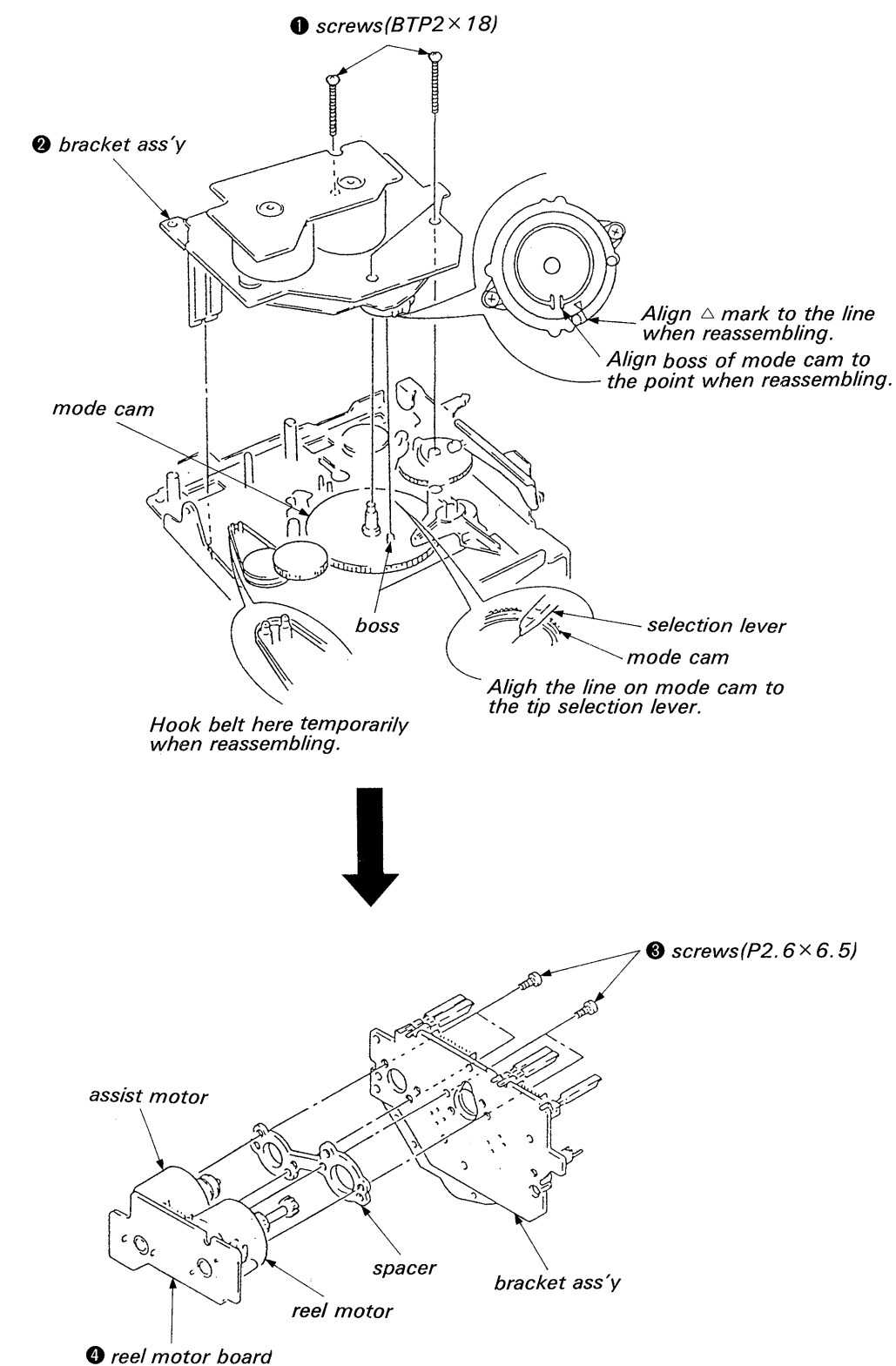
CAPSTAN MOTOR/FLYWHEEL



PINCH LEVER/HEAD



REEL AND ASSIST MOTORS



SECTION 3 MECHANISM OPERATION

1. IN THIS UNIT, TWO MOTORS FOR DRUM AND TRAY ROTATE THE DRUM AND OPEN/ CLOSE THE TRAY.

Before explanation of each operation, main mechanical part names and electrical part names are described.

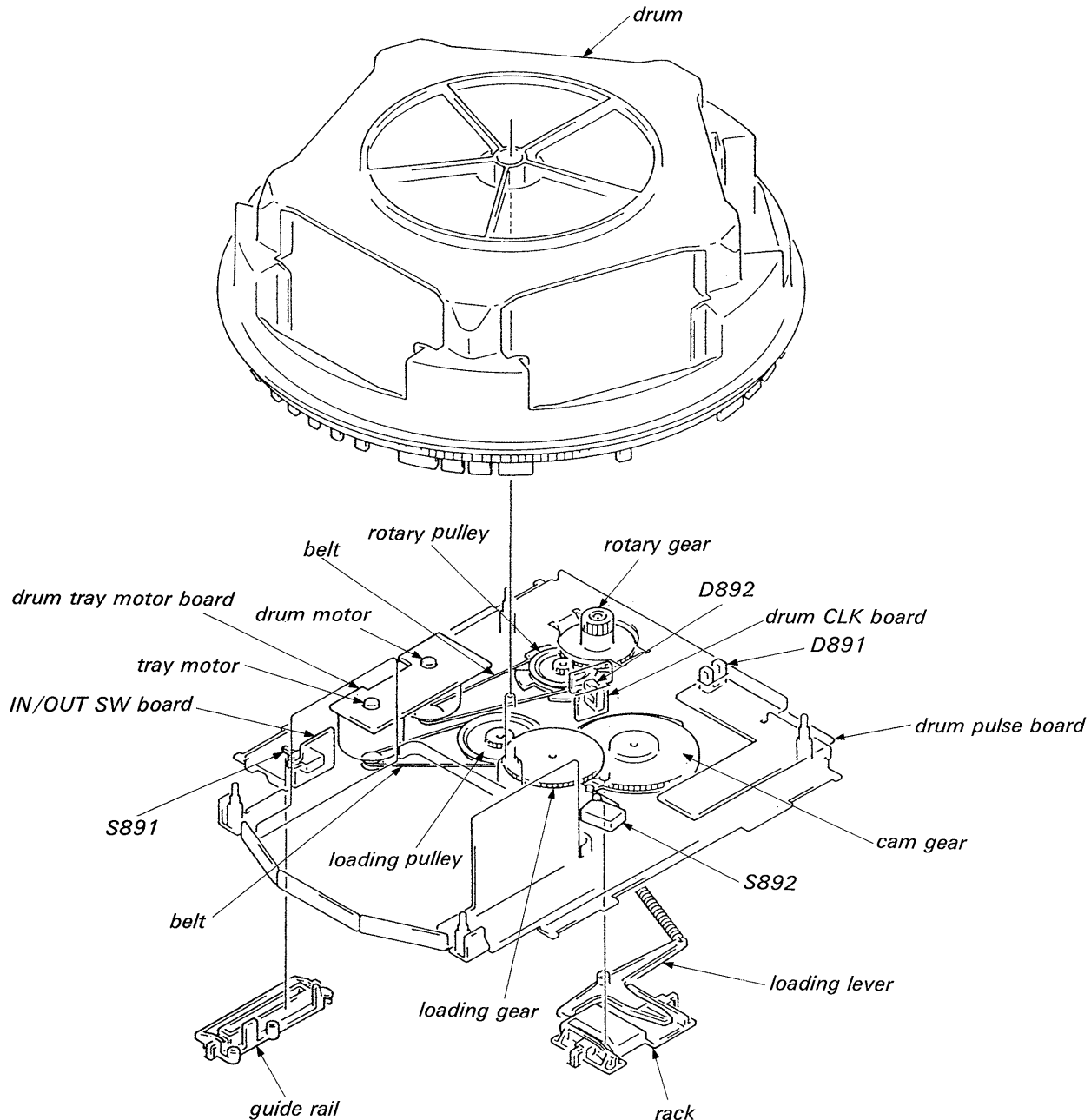


Fig. 1

2. DRUM ROTATION

Drum is driven by the drum motor. As shown in Fig. 2, the drum motor rotates the pulley and rotary gear via belt to rotate the drum.

DETECTION OF CASSETTE HOLDER POSITION

The D891 on the drum pulse board detects the cassette holder position by detecting a slit in the bottom of drum. Holder rotation stop position is detected at the position shown with arrow in Fig. 3, and holder number is detected at ① position.

The D892 on the drum CLK board detects the drum motor rotation pulses to control the slit detection by D891. Thus, the motor control is executed by double detections.

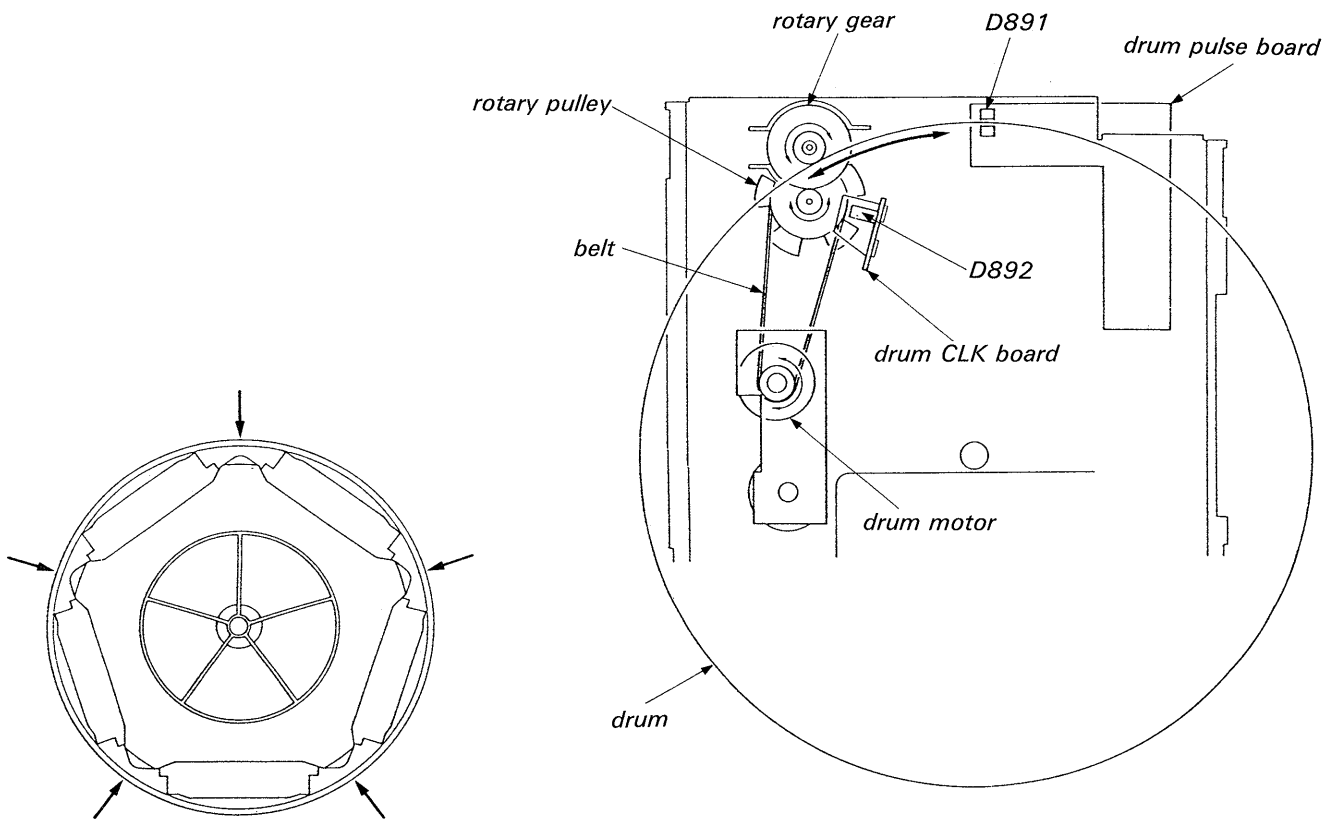


Fig. 2

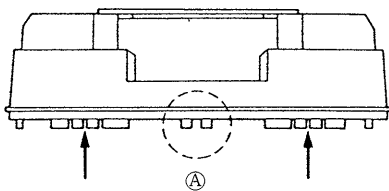


Fig. 3

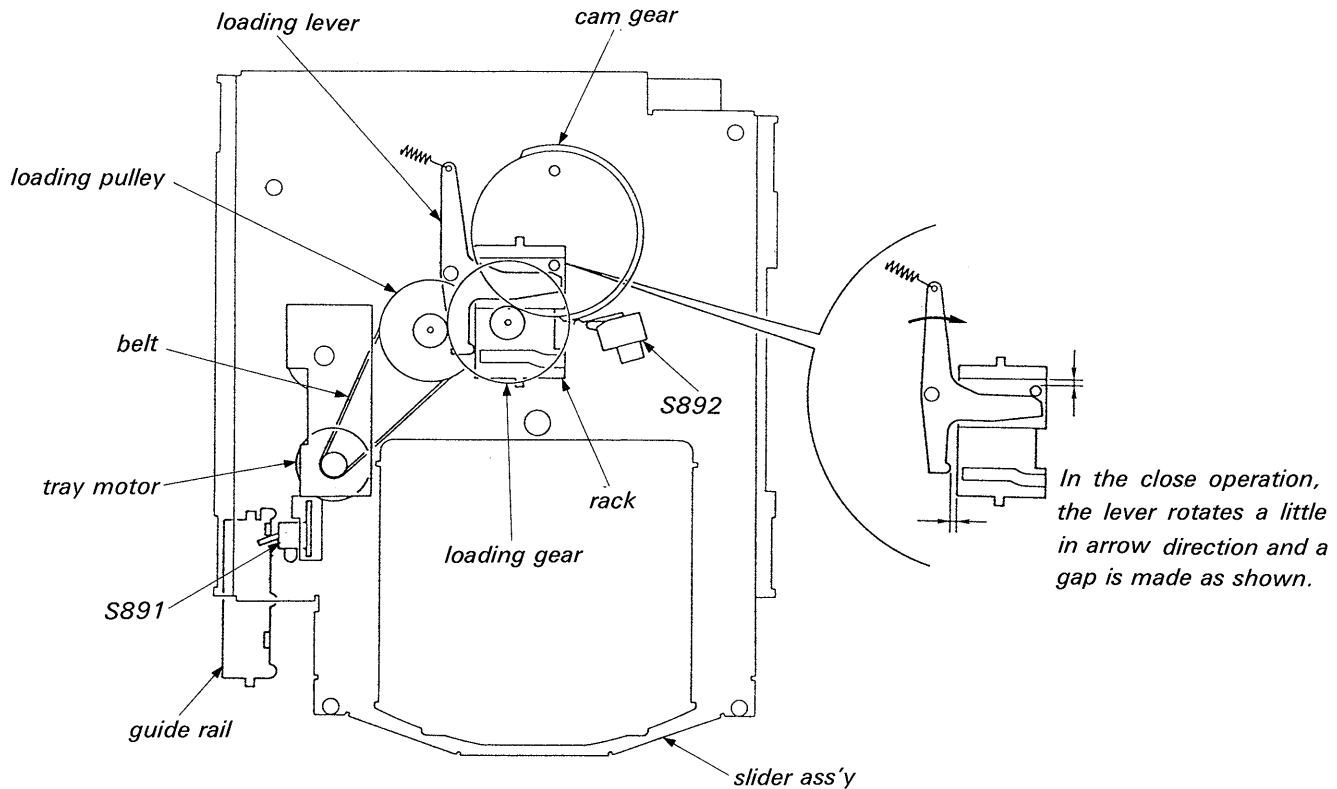


Fig. 4

3. OPEN/CLOSE OPERATION

Fig. 4 shows a close state. Operation from this state to the point where the drum can start to rotate is described below. (Fig. 5)

- (1) The tray motor rotates in arrow direction and the loading pulley rotates in arrow direction via belt.
- (2) Rotation of loading pulley drives the cam gear in arrow direction via loading gear.
- (3) Two bosses of cam gear and rack transform cam gear rotation into linear motion of slider ass'y.
- (4) S892 detects completion of slider ass'y.

The close operation is performed reversely to the above operation and S891 detects completion of close operation. (Fig. 4)

4. OPEN

- (1) Motor, pulley and gear perform the same operation as that up to the position where the drum can start to rotate.
- (2) S891 detects completion of operation by means of guide rail. (Fig. 6)

The close operation is performed reversely to the above operation and S891 detects completion of close operation. (Fig. 4)

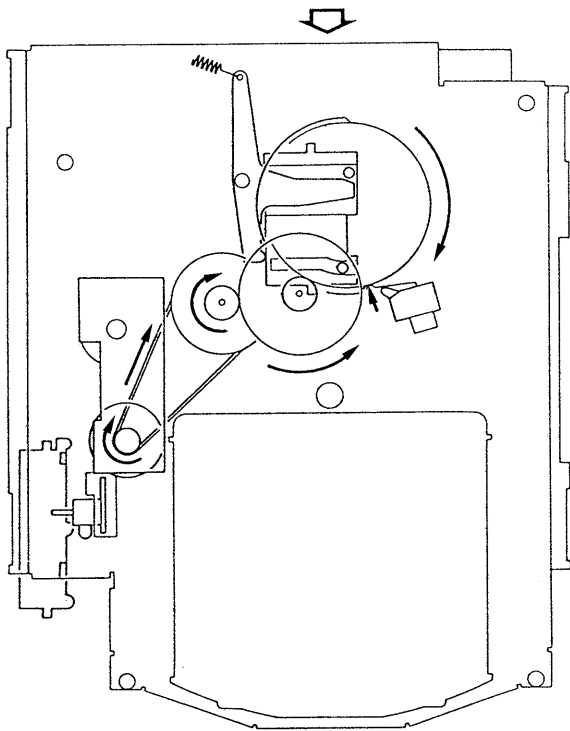


Fig. 5

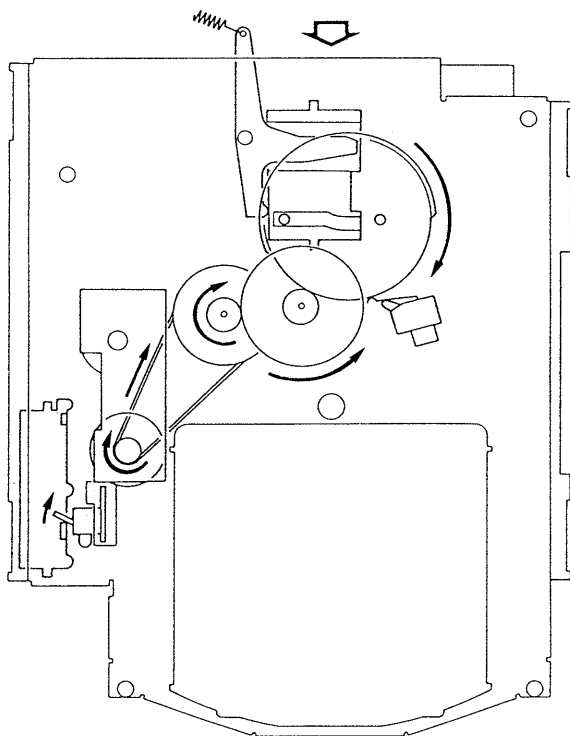


Fig. 6

SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

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

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	30 – 60g • cm (0.42 – 0.83oz • inch)
FWD Back tension	CQ-102C	1 – 5g • cm (0.014 – 0.063oz • inch)
REV	CQ-102RC	30 – 60g • cm (0.42 – 0.83oz • inch)
REV Back tension	CQ-102RC	1 – 5g • cm (0.014 – 0.063oz • inch)
FF, REW	CQ-201B	65 – 100g • cm (0.9 – 1.39oz • inch)

4-2. ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in the service manual. As a rule, adjustments about playback should be performed before those about recording.

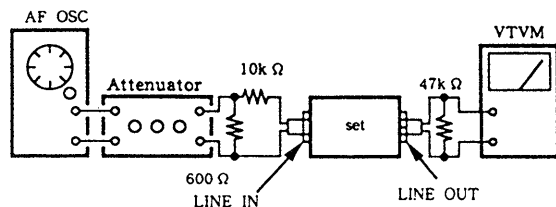
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch : OFF
DIRECTION switch : $\rightleftarrows$
TIMER 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

input terminal	LINE IN
source impedance	10k Ω
input level	0.25V (–10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47k Ω
output level	0.44V (–5dB)

Test tape

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

0dB = 0.775V

- The set will get into TEST MODE by shorting the pins of TP801 (TEST) pins 2 and 3 on SYSTEM CONTROL board before turning the power on, and TEST MODE functions as follows :
- Remove a short pin after electrical adjustment is finished.

1. Source monitor

Cancels muting of line signal while recording.

2. Record memory stop

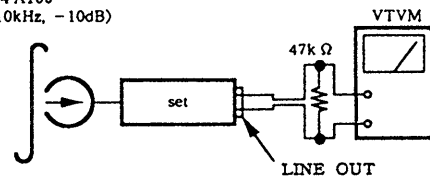
When starting recording, tape counter is reset to zero and counter memory turned on.

Record/Playback/Erase Head Azimuth Adjustment

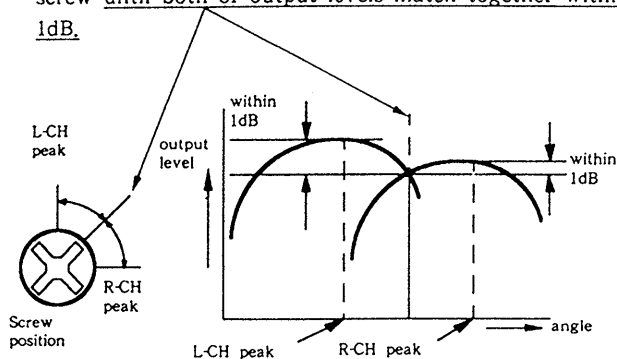
Procedure :

- Mode : FWD playback

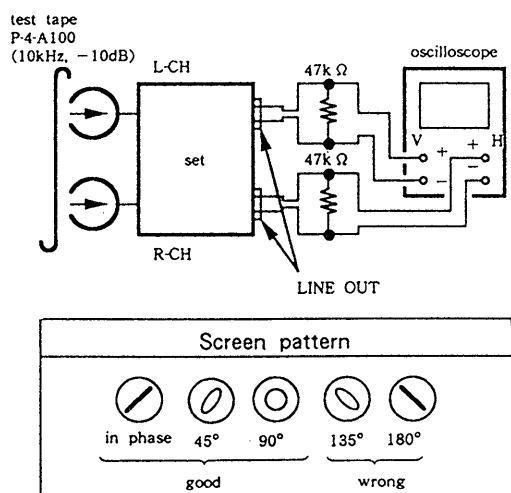
Test tape
P-4-A100
(10kHz, –10dB)



- 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 1dB.

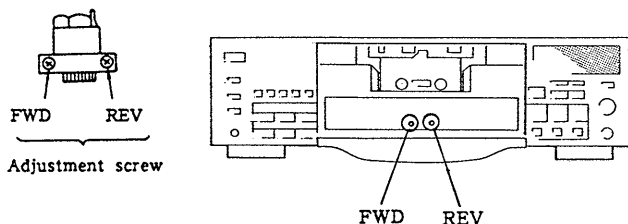


- Phase Check
Mode : playback



- Set in the REV mode and repeat the step 1-3.
- After the adjustment, lock the screws with locking compound.

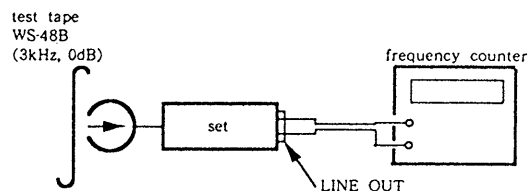
Adjustment Location : Record/Playback /Erase head



Tape Speed Adjustment

Procedura :

Mode : playback



- Set to FWD playback mode.
- Adjust RV881 on SYSTEM CONTROL board so that the frequency counter reading becomes $3,000 \pm 15\text{Hz}$.

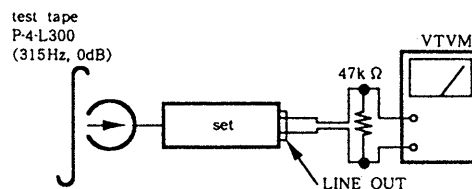
Frequency difference between the beginning and the end of the tape should be within 3%.

Adjustment Location : SYSTEM CONTROL board (See page 18.)

Playback Level Adjustment

Procedura :

Mode : playback



Adjust RV102 (L-ch) and RV202 (R-ch) for so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits :

LINE OUT level : $-7.7\text{dB} \pm 0.5\text{dB}$ (0.3 to 0.34V)

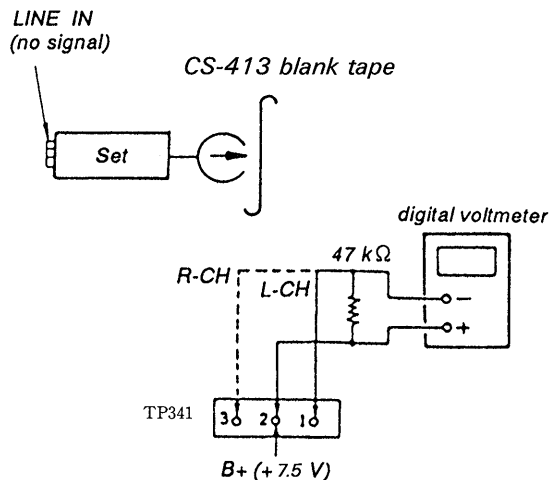
Level difference between channels : less than 0.5dB

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

Adjustment Location : AUDIO board (See page 18.)

Bias Consumption Current Adjustment

Procedure:



1. Set RV101 and RV201 to mechanical center and turn the set recording mode.
2. Connect digital voltmeter as shown by the following table.
3. Adjust the following transformers for the minimum readings on the digital voltmeter.

	Mesurement Point	Adjustment Part	Value
L-ch	② and ①, TP341	T141	not more than 130mV
R-ch	② and ③ TP341	T241	

Adjustment Location : AUDIO board (See page 18.)

Record Bias Adjustment

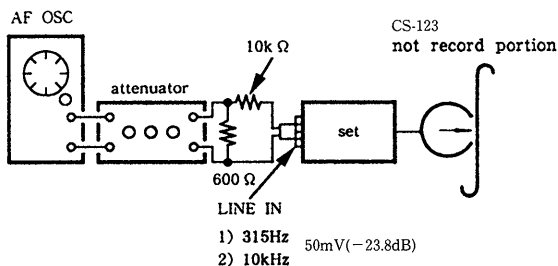
Setting :

REC LEVEL control : standard Record (See page 15.)

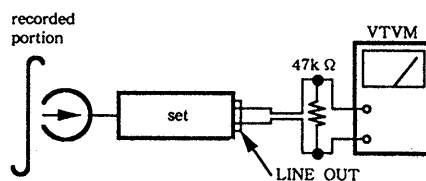
TP801(TEST)pins 2 and 3 : short

Procedure :

1. Mode : record



2. Mode : playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV101 (L-ch) and RV201 (R-ch) for repeat the steps given above.

Adjustment Location : AUDIO board (See page 18.)

Record Level Adjustment

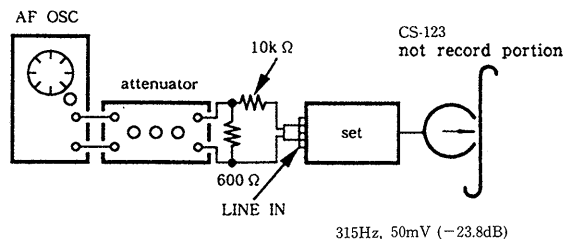
Setting :

REC LEVEL control : Standard Record (See page 15.)

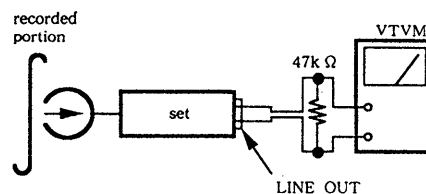
TP801(TEST)pins 2 and 3 : short

Procedure :

1. Mode : record



2. Mode : playback



3. Playback the signal recorded in step1.

Confirm that the signal level is within the adjustment limits below.

If necessary, adjust RV103 (L-ch) and RV203 (R-ch) repeat the step1-2.

Adjustment Limits : $-23.8\text{dB} \pm 0.5\text{dB}$ (53 to 47.2mV)

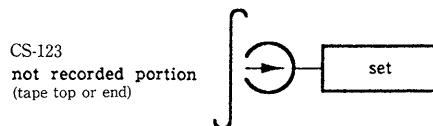
Adjustment Location : AUDIO board (See page 18.)

Quick Reverse Sensitivity Adjustment

Conditions :

DIRECTION MODE switch : $\rightleftarrows$

Adjustment procedure :

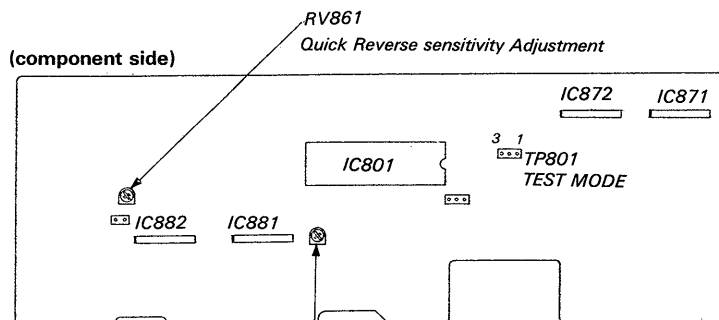


1. Connect the digital voltmeter to test point TP861.
2. Load CS-123 tape cassette and playback the leading portion in FWD mode.
3. Adjust the RV861 for $4.5 \pm 0.5V$ reading on the digital voltmeter.
4. Playback CS-123 tape cassette in FWD mode again.
5. Confirm that the reading on the digital voltmeter is "L" level at the magnetic portion of the tape.
6. Confirm that the tape stop around the tape end (border of the leading and the magnetic portions).

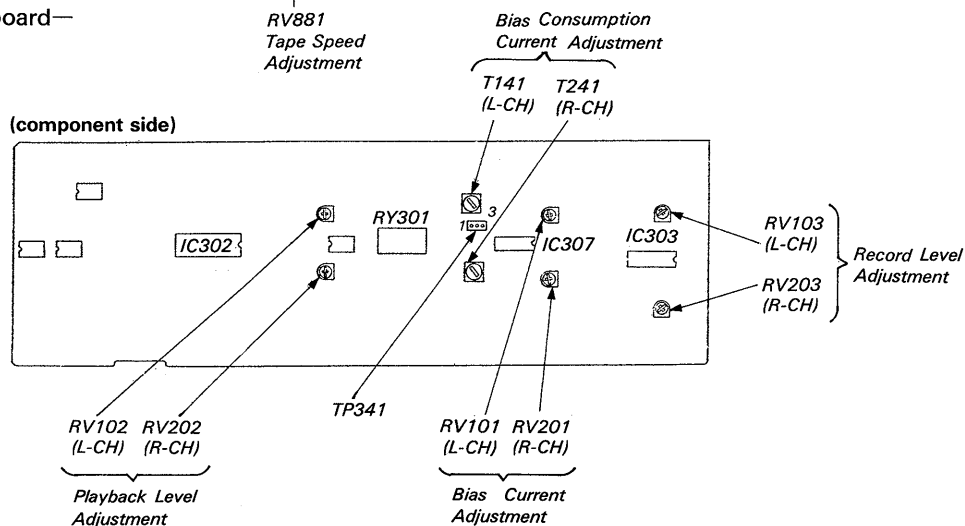
Adjustment Location : SYSTEM CONTROL board

Adjustment Parts Location Diagram

—SYSTEM CONTROL board—



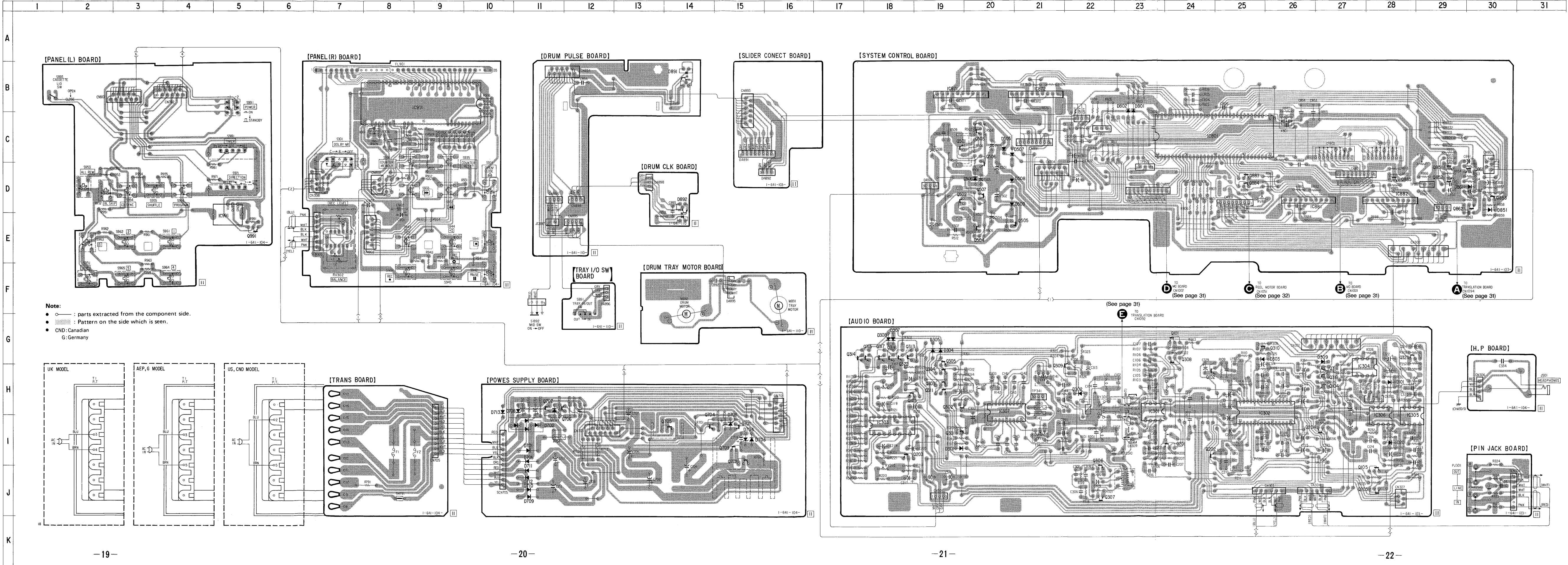
—AUDIO board—



SECTION 5
DIAGRAMS

5-1. PRINTED WIRING BOARDS —Audio /System Control—

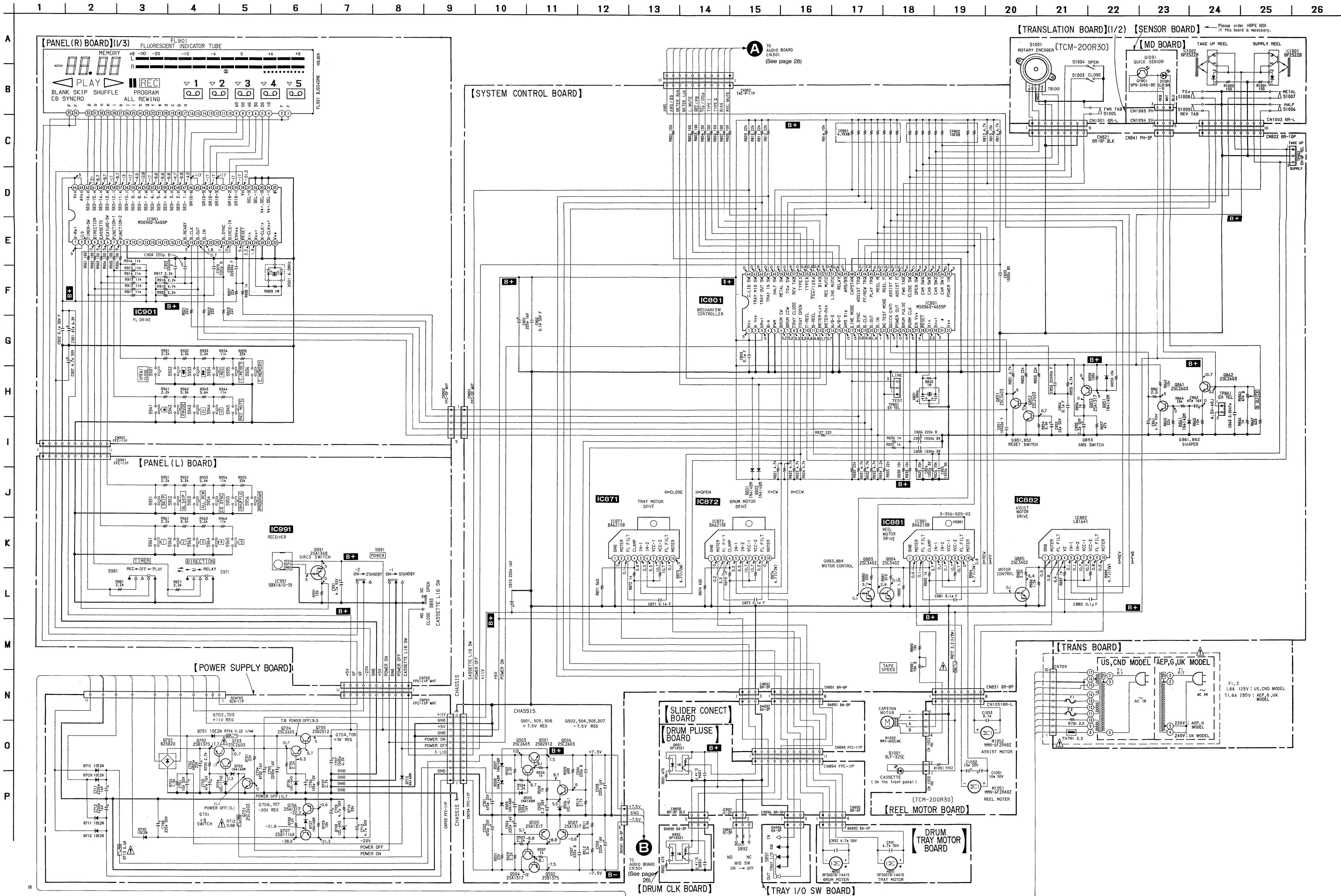
• see page 23 for Semiconductor Location
• see page 27, 34 for Circuit Boards Location and Semiconductor Lead Layouts.



5-2. SCHEMATIC DIAGRAM —System control Section—

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	H-28	Q101	G-24
D201	I-28	Q102	H-24
D301	I-19	Q103	H-18
D302	H-22	Q104	H-27
D303	G-25	Q105	J-28
D304	G-19	Q201	I-24
D305	G-19	Q202	I-24
D307	G-18	Q203	I-18
D308	G-18	Q204	I-27
D309	G-27	Q205	J-28
D505	C-20	Q301	I-19
D506	D-20	Q302	H-19
D507	C-20	Q303	H-19
D508	D-20	Q304	H-19
D509	D-20	Q305	G-19
D701	I-11	Q306	J-22
D702	I-11	Q307	J-22
D703	I-15	Q308	G-24
D704	I-15	Q309	H-22
D705	I-11	Q310	G-25
D706	I-15	Q311	H-19
D707	H-11	Q313	G-18
D708	H-11	Q314	G-17
D709	J-11	Q315	G-18
D710	J-11	Q316	G-18
D711	J-11	Q317	G-18
D712	J-11	Q318	H-27
D713	H-10	Q319	H-27
D801	B-23	Q322	G-18
D802	B-23	Q323	G-18
D851	D-30	Q501	C-19
D861	D-30	Q502	D-19
D891	B-14	Q503	C-20
D892	D-14	Q504	E-20
		Q505	E-20
IC301	H-23	Q506	C-20
IC302	H-25	Q507	D-20
IC303	I-18	Q701	I-15
IC304	H-28	Q702	I-15
IC305	I-28	Q703	I-15
IC306	I-28	Q704	I-14
IC307	H-20	Q705	I-14
IC801	C-24	Q706	H-12
IC871	B-19	Q707	H-11
IC872	B-21	Q851	D-29
IC881	D-26	Q852	D-29
IC882	D-28	Q853	D-30
IC901	B-9	Q861	D-30
IC991	D-5	Q862	D-30
		Q883	D-25
		Q884	D-25
		Q885	D-28
		Q91	E-5



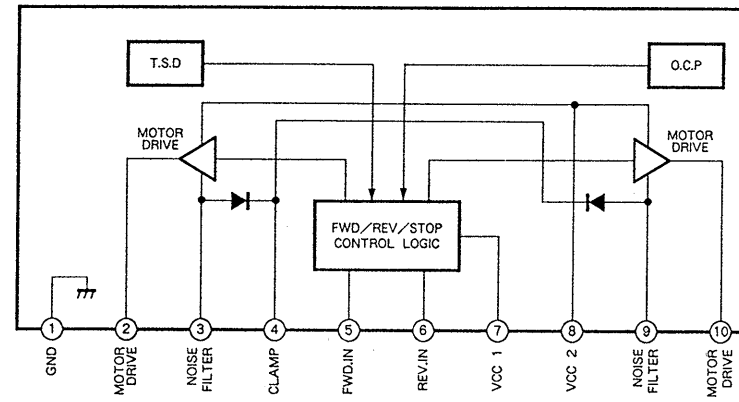
- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF
 - 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
 - % : indicates tolerance.
 - Δ : internal component.
 - fuses : fusible resistor.

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

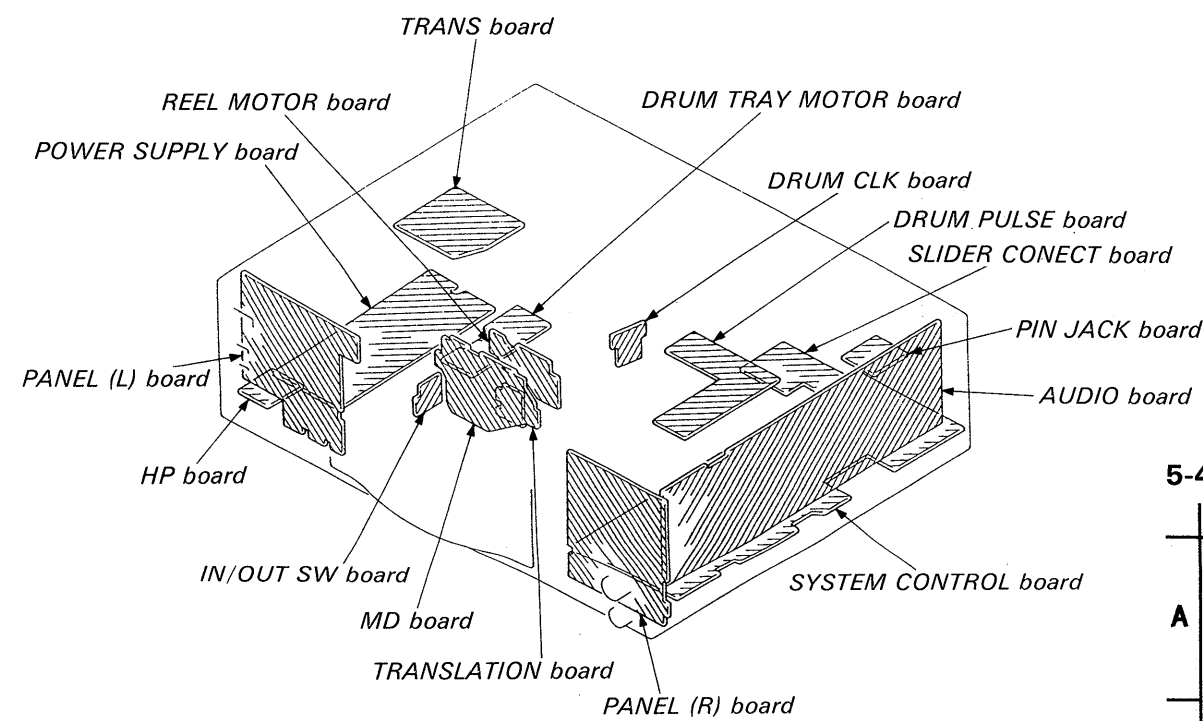
- **B+** : B+ Line
- **B-** : B- Line
- no mark : STOP
- Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- CND: Canadian
- G: Germany

● IC Block Diagram

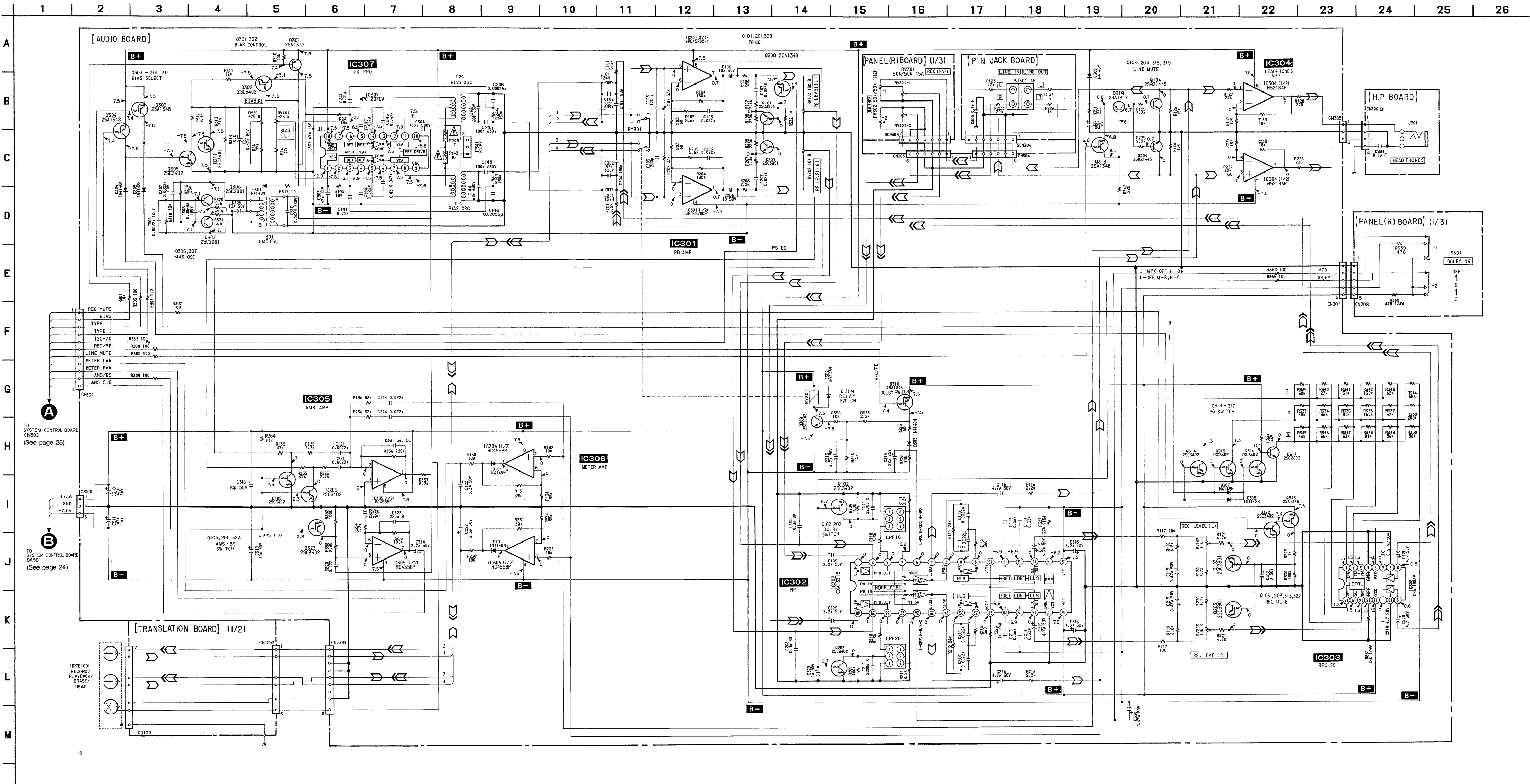
IC882 LB1641
IC871, 872, 881 BA6219B



5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAM —Audio Section—



Note:

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

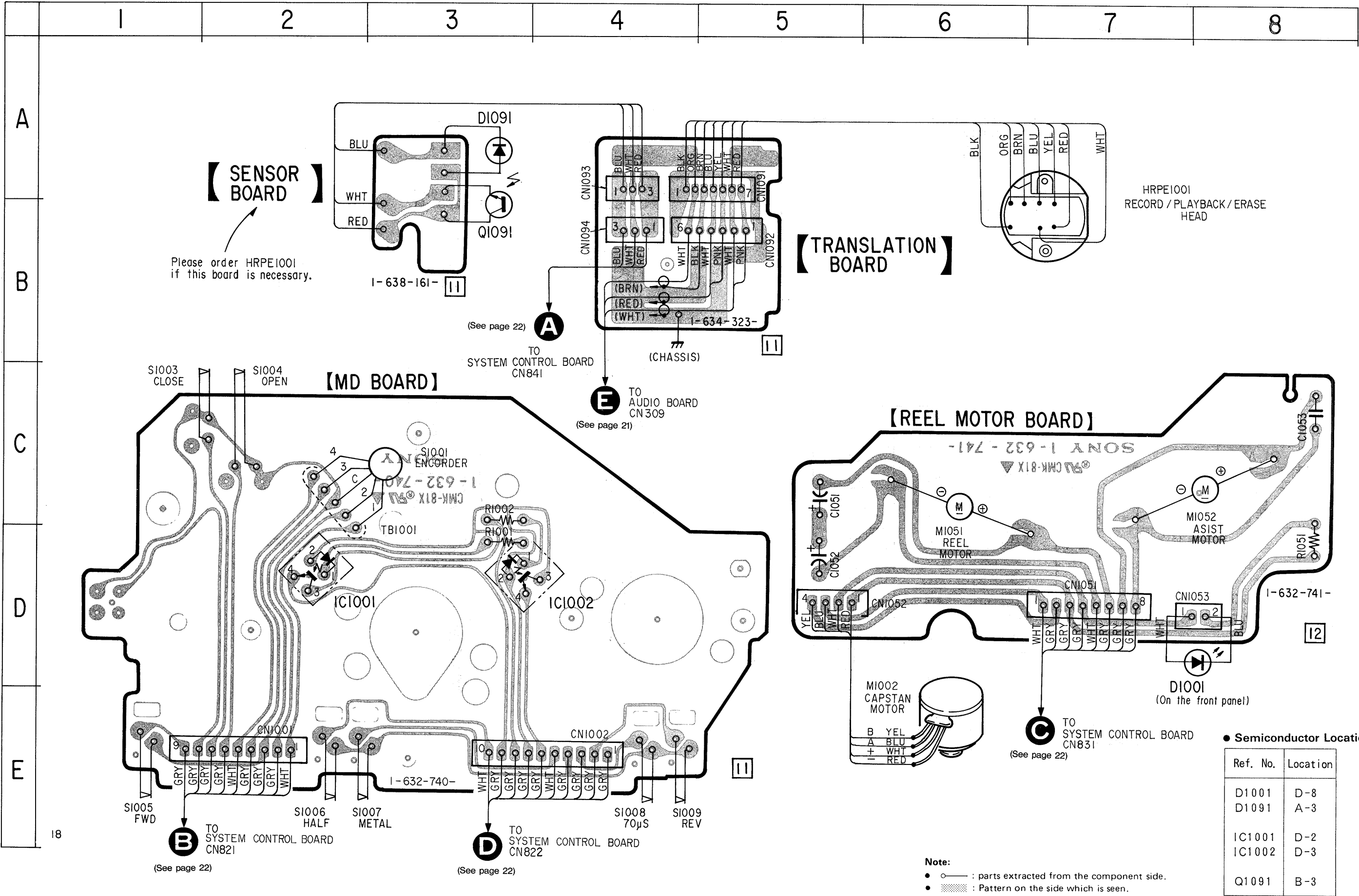
Note:

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

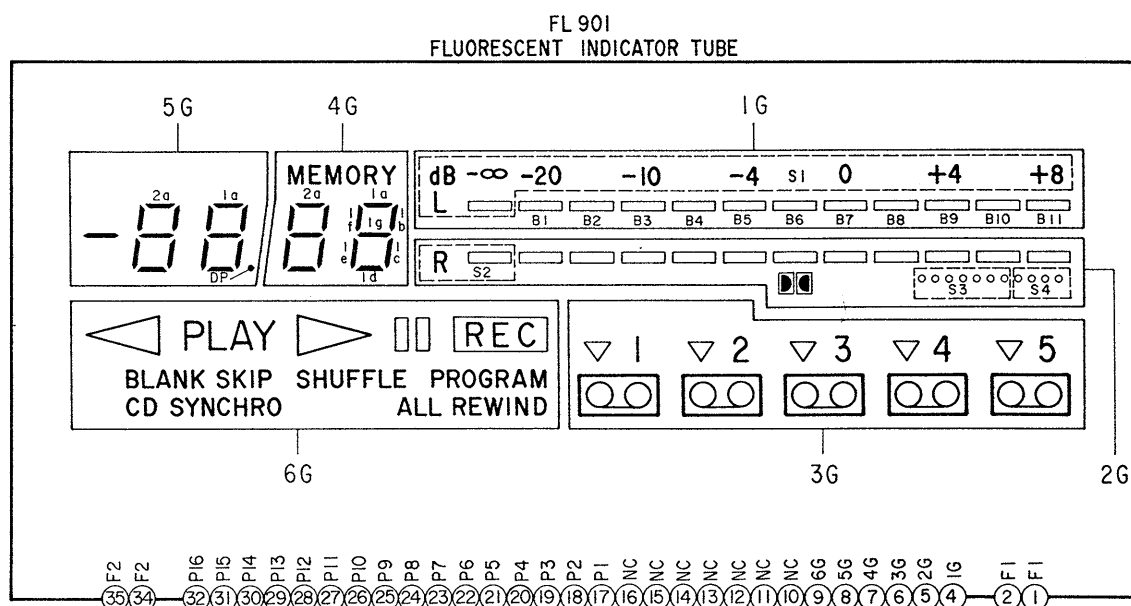
Note:

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B- : B- Line
- : adjustment for repair.
- no mark : STOP
- Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : PB
- : REC



• Fluorescent Indicator Tube

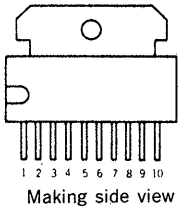


ANODE CONNECTION

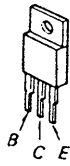
	6G	5G	4G	3G	2G	1G
P1	▷	1a	1a	▽ (1)	S2	S1
P2	PLAY	1b	1b		B1	B1
P3	▷	1c	1c	⊞ (1)	B2	B2
P4	⊞	1d	1d	▽ (2)	B3	B3
P5	REC	1e	1e	2	B4	B4
P6	—	1f	1f	⊞ (2)	B5	B5
P7	—	1g	1g	▽ (3)	B6	B6
P8	—	DP	—	3	B7	B7
P9	BLANK SKIP	2a	2a	⊞ (3)	⊞	—
P10	SHUFFLE	2b	2b	▽ (4)	B8	B8
P11	PROGRAM	2c	2c	4	B9	B9
P12	—	2d	2d	⊞ (4)	B10	B10
P13	CD SYNCHRO	2e	2e	▽ (5)	B11	B11
P14	ALL REWIND	2f	2f	5	S3	—
P15	—	2g	2g	⊞ (5)	S4	—
P16	—	—	MEMORY	—	—	—

● Semiconductor Lead Layouts

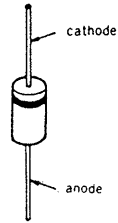
BA6219B
LB1641



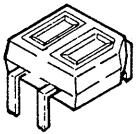
2SA473
2SD2012



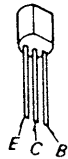
UZL-11H2
1SS120
10E2N



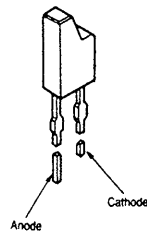
GP2S22B



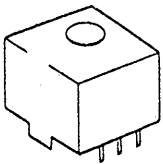
2SB1116A-L
2SC2001-M



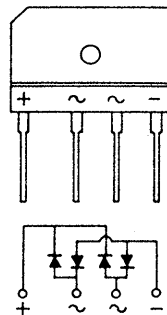
SLR314D



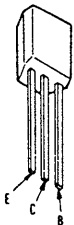
SBX1610-59



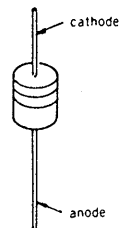
D2SB20



DTA114ES
DTC114ES
DTC143TS
2SA1317-STU
2SC2603-EF
2SD2144S

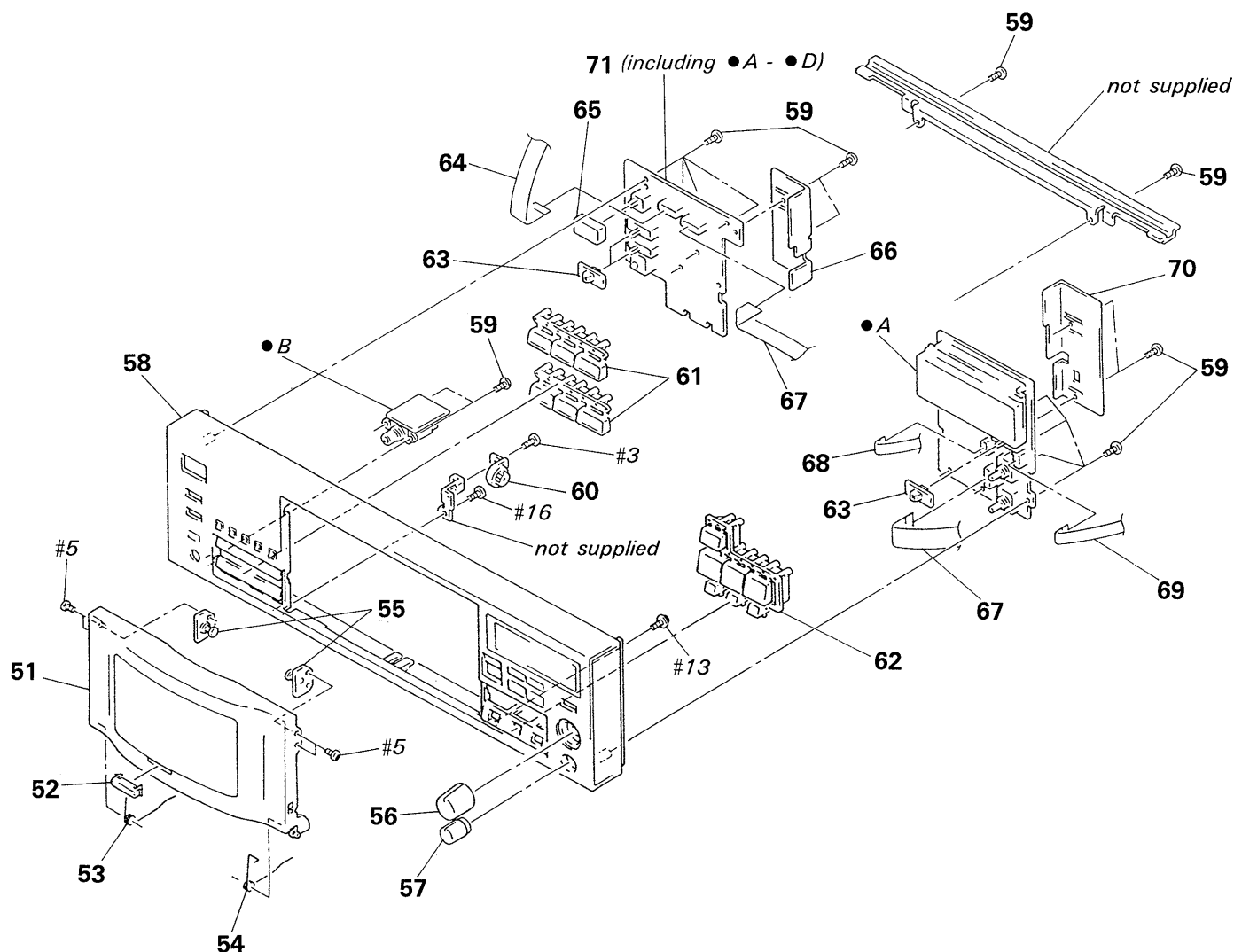


HZS6A1L
HZS6B3L
HZS6C3L



6-2. FRONT PANEL SECTION

- A : PANEL (R) board
- B : HP board
- C-D : See page 38.

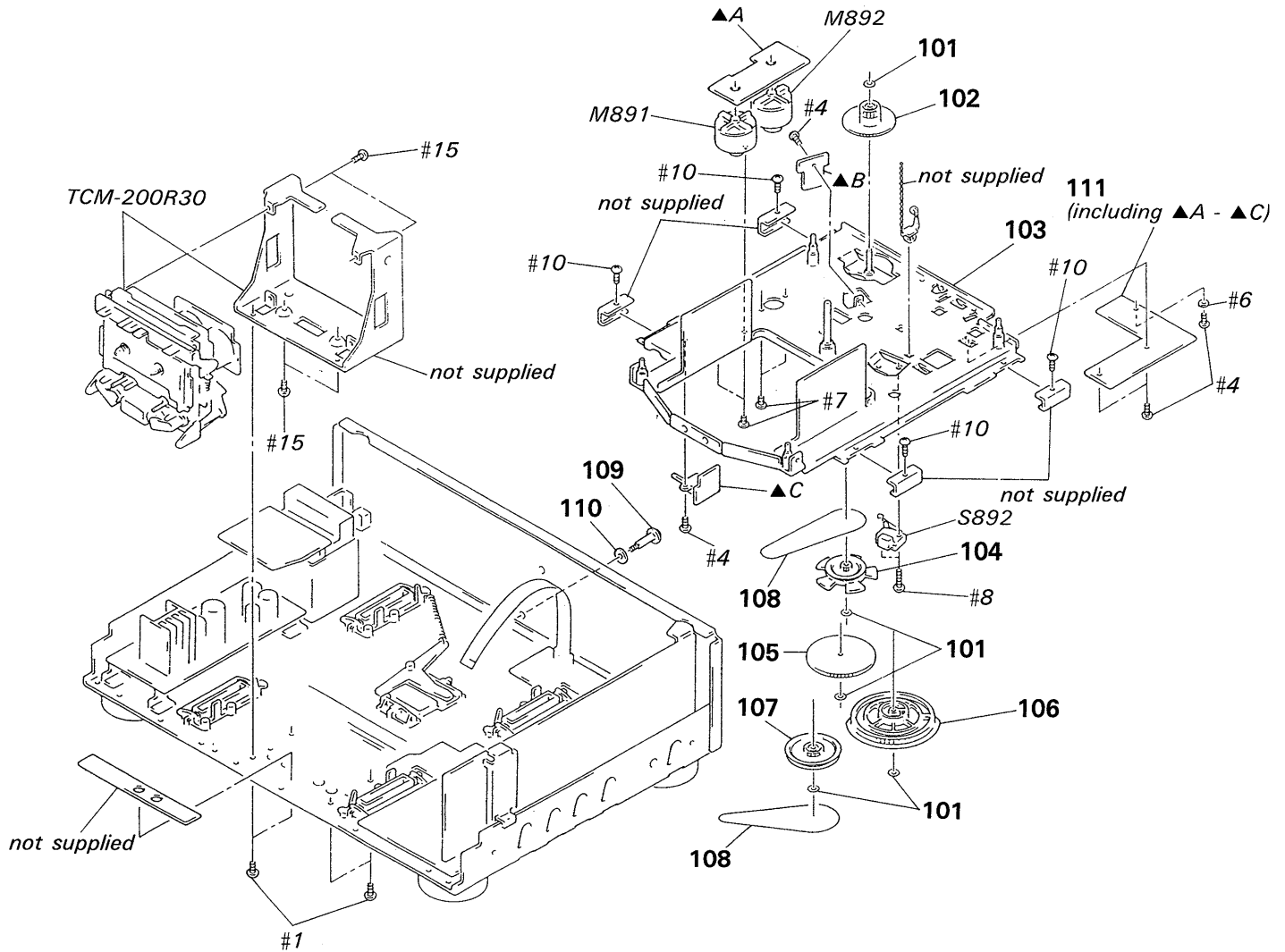


Ref. No.	Part No.	Description	Remark
51	X-3363-664-1	LID ASSY, CASSETTE	
52	3-372-474-01	PLATE (A), ORNAMENTAL	
53	3-372-472-01	SPRING (L), TORSION	
54	3-372-473-01	SPRING (R), TORSION	
55	* X-3363-691-1	BRACKET (HINGE) ASSY	
56	4-927-863-01	KNOB (R18)	
57	3-349-039-11	KNOB (VOL)	
58	X-3363-663-1	PANEL ASSY, FRONT (US, Canadian)	
58	X-3363-665-1	PANEL ASSY, FRONT (AEP, G, UK)	
59	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
60	3-354-963-01	DAMPER	

Ref. No.	Part No.	Description	Remark
61	3-372-462-01	BUTTON (B)	
62	3-372-464-01	BUTTON (D)	
63	4-931-421-11	KNOB (T & S)	
64	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	
65	4-922-921-01	BUTTON (POWER)	
66	* 3-372-476-01	COVER (L)	
67	1-690-319-11	WIRE, FLAT TYPE (11 CORE)	
68	1-575-779-11	WIRE, FLAT TYPE (5 CORE)	
69	1-575-778-11	WIRE, FLAT TYPE (5 CORE)	
70	* 3-372-477-01	COVER (R)	
71	* A-2006-621-A	PANEL POWER BOARD, COMPLETE	

6-3. SLIDER SECTION

▲A : DRUM TRAY MOTOR board
 ▲B : DRUM CLK board
 ▲C : IN/OUT SW board

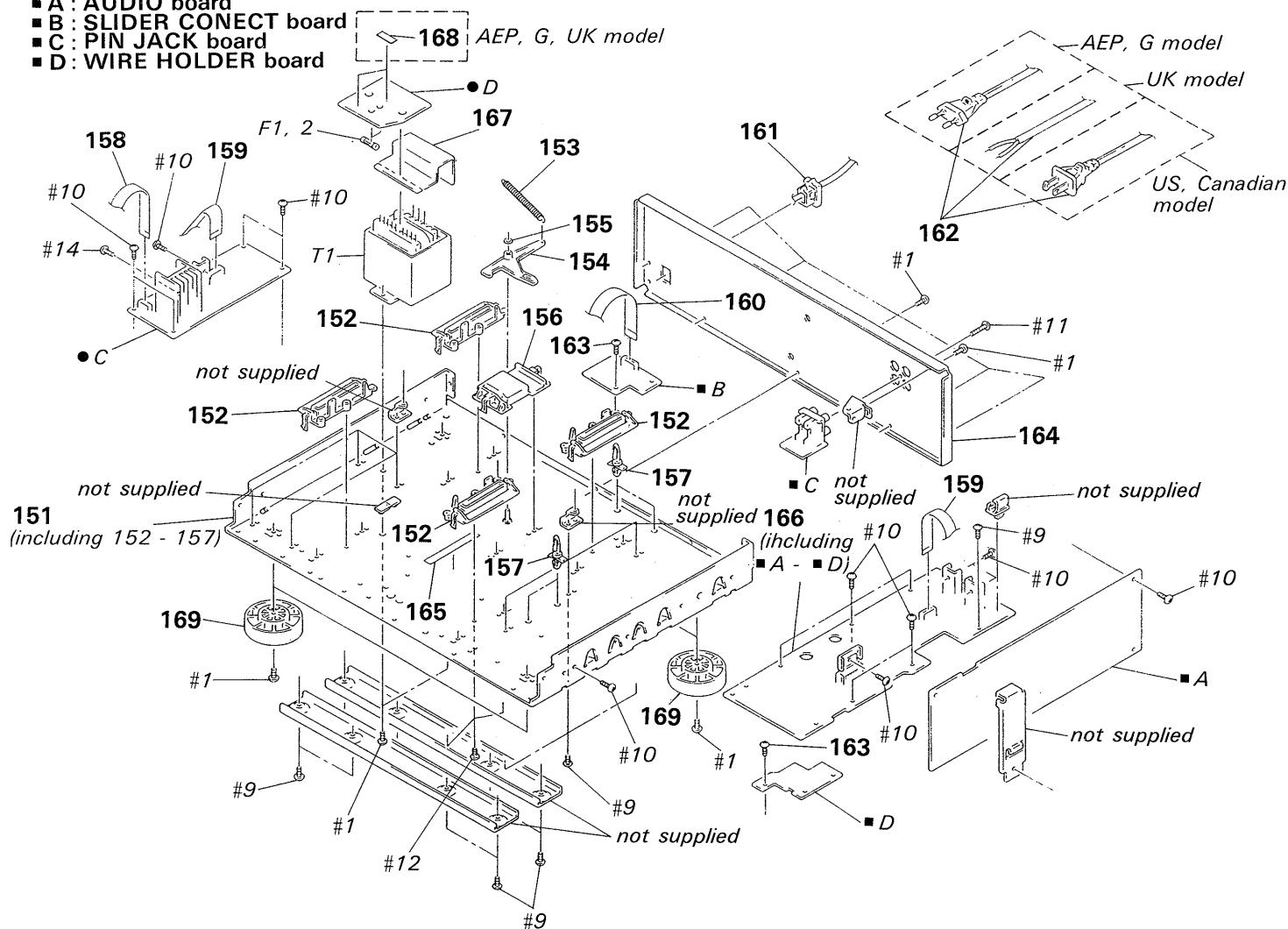


Ref. No.	Part No.	Description	Remark
101	3-558-708-21	WASHER, STOPPER	
102	3-372-519-01	GEAR (ROTARY)	
103	* X-3363-668-1	SLIDER ASSY	
104	3-372-518-01	PULLEY (ROTARY)	
105	3-372-517-01	GEAR (LOADING)	
106	3-372-515-01	GEAR (CAM GEAR)	
107	3-372-516-01	PULLEY (LOADING)	

Ref. No.	Part No.	Description	Remark
108	3-372-514-01	BELT (LOADING)	
109	3-372-531-01	SCREW, TRANSPORT	
110	4-930-282-01	WASHER (T), POLY-SLIDER	
111	* 1-641-110-11	SLIDER BOARD	
M891	X-3363-669-1	MOTOR (TRAY) ASSY	
M892	X-3363-670-1	MOTOR (DRUM) ASSY	
S892	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (MID)	

6-4. CHASSIS SECTION

- C : POWER SUPPLY board
- D : TRANS board
- A : AUDIO board
- B : SLIDER CONECT board
- C : PIN JACK board
- D : WIRE HOLDER board



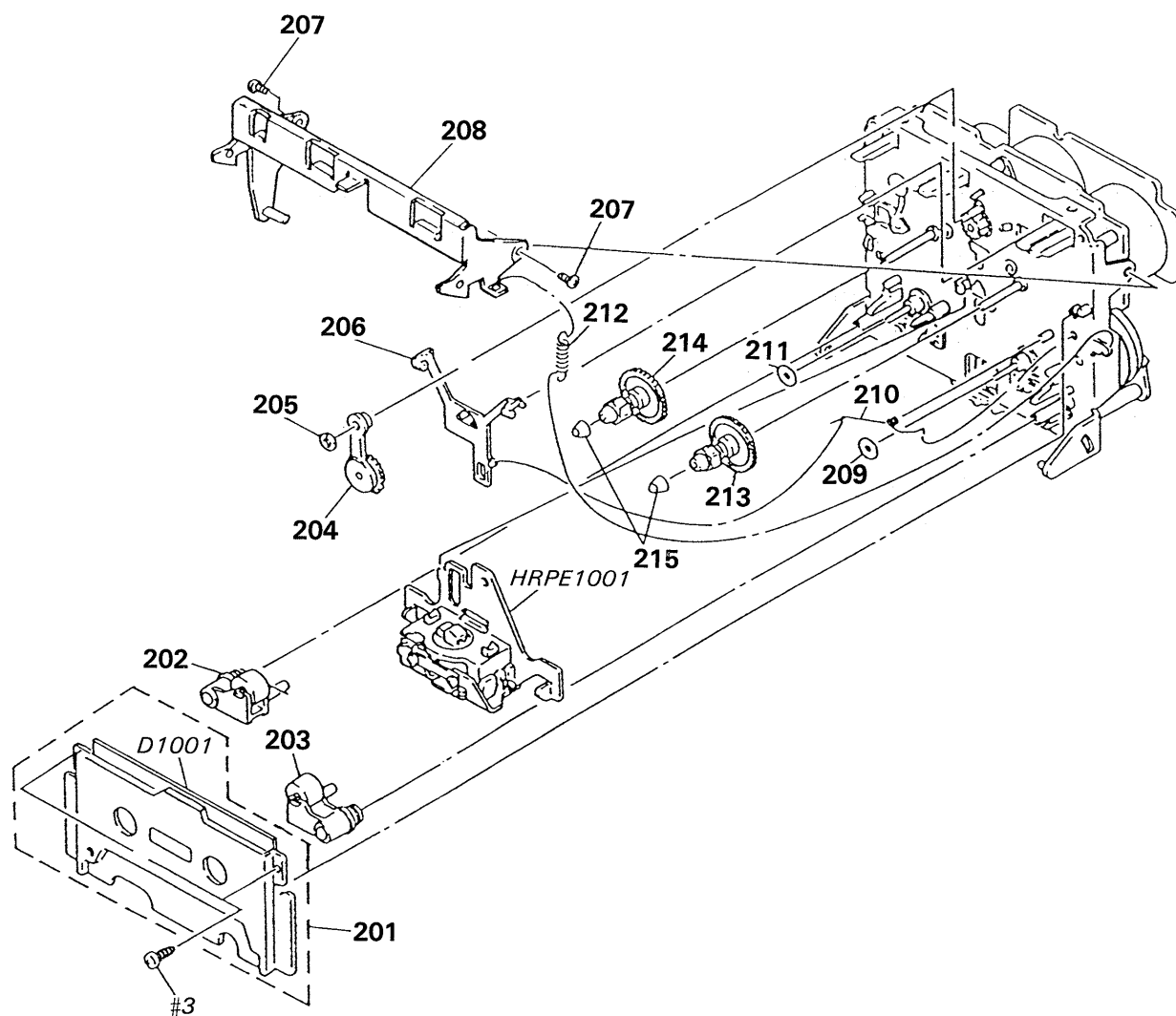
Ref. No.	Part No.	Description	Remark
151	* X-3363-671-1	CHASSIS ASSY	
152	3-372-521-01	RAIL, GUIDE	
153	3-372-525-01	SPRING, TENSION	
154	3-372-523-01	LEVER (LOADING)	
155	3-558-708-21	WASHER, STOPPER	
156	3-372-522-01	RACK	
157	* 4-924-098-21	HOLDER, PC BOARD	
158	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	
159	1-690-320-11	WIRE, FLAT TYPE (11 CORE)	
160	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	
161	* 3-703-244-00	BUSHING (2104), CORD	
162	⚠ 1-555-465-00	CORD, POWER (US, Canadian)	
162	⚠ 1-555-795-00	CORD, POWER, EULO PLUG (AEP, G)	
162	⚠ 1-556-035-00	CORD, POWER (UK)	
163	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
164	* 3-371-137-01	PANEL, BACK (US, Canadian)	
164	* 3-371-137-11	PANEL, BACK (AEP)	

Ref. No.	Part No.	Description	Remark
164	* 3-371-137-21	PANEL, BACK (G)	
164	* 3-371-137-31	PANEL, BACK (UK)	
165	3-831-441-XX	CUSHION (B), CABINET	
166	* A-2006-620-A	AUDIO SYSCON BOARD, COMPLETE	
167	* 3-337-136-11	COVER, TRANSFORMER SAFETY (AEP, G, UK)	
167	* 3-372-475-01	COVER, TRANSFORMER SAFETY (US, Canadian)	
168	3-701-947-13	LABEL (T1.6A), FUSE (AEP, G, UK)	
169	4-943-148-32	FOOT (F581753W) (US, Canadian)	
169	4-943-148-42	FOOT (F581753W) (AEP, G, UK)	
F1	⚠ 1-532-259-00	FUSE, TIME-LAG (T1.6A 250V) (AEP, G, UK)	
F1	⚠ 1-532-742-11	FUSE, GLASS TUBE (1.6A 125V) (US, Canadian)	
F2	⚠ 1-532-259-00	FUSE, TIME-LAG (T1.6A 250V) (AEP, G, UK)	
F2	⚠ 1-532-742-11	FUSE, GLASS TUBE (1.6A 125V) (US, Canadian)	
T1	⚠ 1-450-444-11	TRANSFORMER, POWER (US, Canadian)	
T1	⚠ 1-450-446-11	TRANSFORMER, POWER (AEP, G, UK)	

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

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

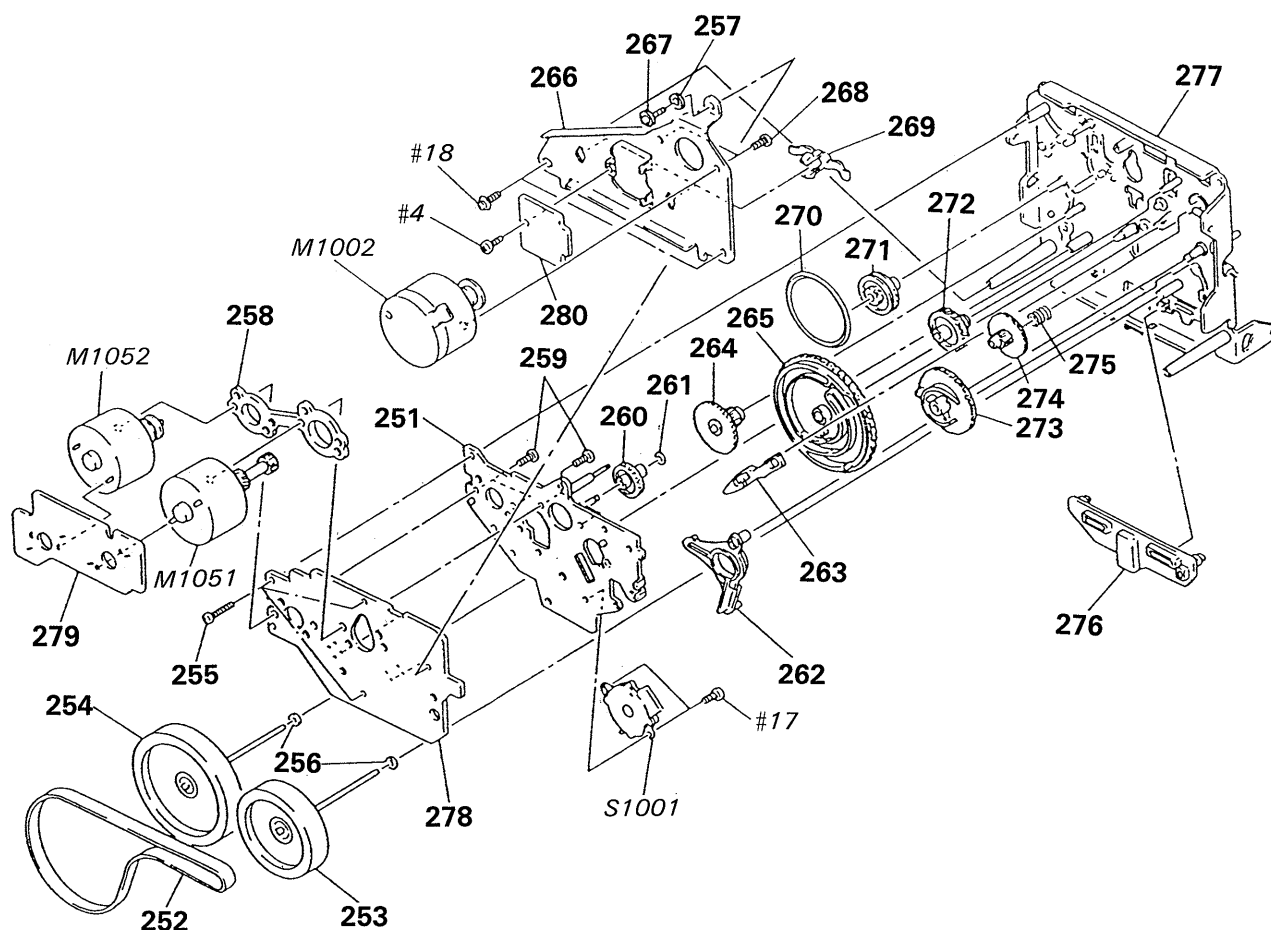
6-5. MECHANISM SECTION 1 TCM-200R30



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-3356-613-1	PLATE ASSY, ORNAMENTAL		210	3-356-619-01	SPRING (B), TORSION	
202	X-3343-456-1	LEVER (PINCH R) ASSY		211	3-356-714-01	WASHER	
203	X-3343-455-1	LEVER (PINCH F) ASSY		212	3-356-625-01	SPRING, TENSION	
204	X-3356-641-1	LEVER (FR2) ASSY		213	X-3356-627-1	GEAR (A) ASSY	
205	3-669-465-11	WASHER (1.5), STOPPER		214	X-3356-628-1	GEAR (S) ASSY	
206	3-356-614-01	SLIDER (BRAKE)		215	3-362-308-01	CAP (REEL)	
207	3-356-601-11	SCREW, STEP		D1001	8-719-980-85	LED SLF325C	
208	X-3363-367-1	LEVER (LIFTER) ASSY		HRPE1001	A-2003-722-A	SLIDER (R4) COMPLETE ASSY (This parts, if ordered, contains the SENSOR board.)	
209	3-356-713-01	WASHER					

6-6. MECHANISM SECTION 2

TCM-200R30



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	* X-3356-602-1	BRACKET (MOTOR R) ASSY		268	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
252	3-356-604-01	BELT (CAPSTAN)		269	3-575-321-00	RETAINER, THRUST, CAPSTAN	
253	X-3363-363-1	FLYWHEEL (R FWD) ASSY		270	3-356-603-01	BELT (MODE)	
254	X-3363-364-1	FLYWHEEL (R REV) ASSY		271	3-356-607-01	PULLEY (MODE)	
255	3-355-801-01	SCREW (BTP 2X18)		272	3-356-703-01	GEAR (COMMUNICATION C)	
256	3-356-705-01	WASHER (CAPSTAN)		273	3-356-616-01	GEAR (LOADING CAM)	
257	* 3-356-718-01	SPACER (THRUST RETAINER R)		274	3-356-609-01	GEAR (LOADING)	
258	* 3-356-628-01	SPACER (MOTOR)		275	3-356-605-01	SPRING, COMPRESSION	
259	3-363-804-01	SCREW (+P 2.6X6.5)		276	3-356-612-01	SLIDER (REVERSE)	
260	3-356-702-01	GEAR (COMMUNICATION B)		277	X-3363-365-1	CHASSIS COMPLETE ASSY	
261	3-669-465-00	WASHER (1.5), STOPPER		278	* 1-632-740-11	MD BOARD	
262	3-356-613-01	LEVER (MODE)		279	* 1-632-741-11	REAL MOTOR BOARD	
263	3-356-617-01	LEVER (SELECTION)		280	* 1-634-323-11	TRANSLATION BOARD	
264	3-356-606-01	GEAR (MODE)		M1002	X-3356-605-1	MOTOR (CAPSTAN R) ASSY	
265	3-356-615-01	GEAR (MODE CAM RR)		M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
266	* 3-356-629-01	BRACKET (THRUST RETAINER R)		M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
267	3-356-707-01	SCREW (+PTPW 2X25)		S1001	1-466-525-11	ENCODER, ROTARY	

SECTION 7 ELECTRICAL PARTS LIST

AUDIO SYSCON

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 differences from the original one.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PB...
- CAPACITORS
uF: μ F
- COILS
uH: μ H
- G : Germany

When indication 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.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	* A-2006-620-A	AUDIO SYSCON BOARD, COMPLETE (including SYSTEM CONTROL BOARD, AUDIO BOARD, SLIDER CONECT BOARD, PIN JACK BOARD)		C145	1-136-433-11	FILM 100PF 5%	630V
		*****		C146	1-130-468-00	MYLAR 560PF 5%	50V
	* 3-309-144-21	HEAT SINK		C202	1-136-274-11	FILM 82PF 5%	630V
	* 3-346-266-12	PLATE, GROUND		C203	1-164-736-31	CERAMIC 0.0012uF 10%	50V
	* 3-356-925-01	HEAT SINK		C204	1-162-285-31	CERAMIC 180PF 10%	50V
	7-682-547-04	SCREW +BVTT 3X6 (S)					
		< CAPACITOR >		C205	1-136-157-00	FILM 0.022uF 5%	50V
C102	1-136-274-11	FILM 82PF 5%	630V	C206	1-124-657-00	ELECT 10uF 20%	50V
C103	1-164-736-31	CERAMIC 0.0012uF 10%	50V	C207	1-136-158-00	FILM 0.027uF 5%	50V
C104	1-162-285-31	CERAMIC 180PF 10%	50V	C208	1-162-294-31	CERAMIC 0.001uF 10%	50V
C105	1-136-157-00	FILM 0.022uF 5%	50V	C209	1-124-925-11	ELECT 2.2uF 20%	100V
C106	1-124-657-00	ELECT 10uF 20%	50V				
C107	1-136-158-00	FILM 0.027uF 5%	50V	C210	1-161-375-00	CERAMIC 0.0022uF 20%	50V
C108	1-162-294-31	CERAMIC 0.001uF 10%	50V	C211	1-130-475-00	MYLAR 0.0022uF 5%	50V
C109	1-124-925-11	ELECT 2.2uF 20%	100V	C212	1-130-475-00	MYLAR 0.0022uF 5%	50V
C110	1-161-375-00	CERAMIC 0.0022uF 20%	50V	C213	1-136-174-00	FILM 0.56uF 5%	50V
C111	1-130-475-00	MYLAR 0.0022uF 5%	50V	C214	1-136-171-00	FILM 0.33uF 5%	50V
C112	1-130-475-00	MYLAR 0.0022uF 5%	50V	C215	1-124-927-11	ELECT 4.7uF 20%	100V
C113	1-136-174-00	FILM 0.56uF 5%	50V	C216	1-124-927-11	ELECT 4.7uF 20%	100V
C114	1-136-171-00	FILM 0.33uF 5%	50V	C217	1-124-902-00	ELECT 0.47uF 20%	50V
C115	1-124-927-11	ELECT 4.7uF 20%	100V	C219	1-124-927-11	ELECT 4.7uF 20%	100V
C116	1-124-927-11	ELECT 4.7uF 20%	100V	C220	1-124-927-11	ELECT 4.7uF 20%	100V
C117	1-124-902-00	ELECT 0.47uF 20%	50V	C221	1-130-475-00	MYLAR 0.0022uF 5%	50V
C119	1-124-927-11	ELECT 4.7uF 20%	100V	C222	1-123-382-00	ELECT 3.3uF 20%	100V
C120	1-124-927-11	ELECT 4.7uF 20%	100V	C224	1-136-157-00	FILM 0.022uF 5%	50V
C121	1-130-475-00	MYLAR 0.0022uF 5%	50V	C241	1-136-153-00	FILM 0.01uF 5%	50V
C122	1-123-382-00	ELECT 3.3uF 20%	100V	C242	1-136-157-00	FILM 0.022uF 5%	50V
C124	1-136-157-00	FILM 0.022uF 5%	50V	C243	1-136-161-00	FILM 0.047uF 5%	50V
C141	1-136-153-00	FILM 0.01uF 5%	50V	C244	1-136-272-00	FILM 68PF 5%	630V
C142	1-136-157-00	FILM 0.022uF 5%	50V	C245	1-136-433-11	FILM 100PF 5%	630V
C143	1-136-161-00	FILM 0.047uF 5%	50V	C246	1-130-468-00	MYLAR 560PF 5%	50V
C144	1-136-272-00	FILM 68PF 5%	630V	C301	1-124-902-00	ELECT 0.47uF 20%	50V
				C302	1-124-477-11	ELECT 47uF 20%	25V
				C303	1-124-477-11	ELECT 47uF 20%	25V
				C304	1-107-046-00	MICA 4.7PF	500V
				C305	1-164-159-11	CERAMIC 0.1uF	50V
				C306	1-136-230-00	FILM 0.0022uF 5%	100V

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Ref.No.	Part No.	Description			Remark
C307	1-136-230-00	FILM	0.0022uF	5%	100V
C308	1-130-856-00	FILM	0.0068uF	5%	100V
C309	1-124-907-11	ELECT	10uF	20%	50V
C310	1-136-558-11	FILM	0.0039uF	5%	630V
C313	1-124-927-11	ELECT	4.7uF	20%	100V
C314	1-126-233-11	ELECT	22uF	20%	50V
C315	1-124-927-11	ELECT	4.7uF	20%	100V
C316	1-124-927-11	ELECT	4.7uF	20%	100V
C317	1-124-903-11	ELECT	1uF	20%	50V
C318	1-124-907-11	ELECT	10uF	20%	50V
C319	1-124-907-11	ELECT	10uF	20%	50V
C320	1-136-157-00	FILM	0.022uF	5%	50V
C322	1-124-925-11	ELECT	2.2uF	20%	100V
C323	1-162-286-31	CERAMIC	220PF	10%	50V
C324	1-124-925-11	ELECT	2.2uF	20%	100V
C325	1-124-120-11	ELECT	220uF	20%	25V
C329	1-124-903-11	ELECT	1uF	20%	50V
C330	1-124-902-00	ELECT	0.47uF	20%	50V
C331	1-162-217-31	CERAMIC	56PF	5%	50V
C501	1-124-480-11	ELECT	470uF	20%	25V
C502	1-124-480-11	ELECT	470uF	20%	25V
C503	1-124-120-11	ELECT	220uF	20%	25V
C504	1-124-120-11	ELECT	220uF	20%	25V
C505	1-124-925-11	ELECT	2.2uF	20%	100V
C506	1-162-286-31	CERAMIC	220PF	10%	50V
C507	1-162-286-31	CERAMIC	220PF	10%	50V
C508	1-124-120-11	ELECT	220uF	20%	25V
C509	1-124-120-11	ELECT	220uF	20%	25V
C510	1-124-477-11	ELECT	47uF	20%	25V
C511	1-124-477-11	ELECT	47uF	20%	25V
C801	1-124-120-11	ELECT	220uF	20%	25V
C802	1-164-159-11	CERAMIC	0.1uF		50V
C803	1-162-294-31	CERAMIC	0.001uF	10%	50V
C804	1-162-294-31	CERAMIC	0.001uF	10%	50V
C805	1-162-294-31	CERAMIC	0.001uF	10%	50V
C806	1-162-286-31	CERAMIC	220PF	10%	50V
C807	1-162-294-31	CERAMIC	0.001uF	10%	50V
C808	1-162-294-31	CERAMIC	0.001uF	10%	50V
C809	1-164-159-11	CERAMIC	0.1uF		50V
C810	1-124-120-11	ELECT	220uF	20%	25V
C851	1-161-379-00	CERAMIC	0.01uF	20%	25V
C852	1-126-233-11	ELECT	22uF	20%	50V
C853	1-161-494-00	CERAMIC	0.022uF		25V
C854	1-164-159-11	CERAMIC	0.1uF		50V
C855	1-124-925-11	ELECT	2.2uF	20%	100V
C861	1-124-927-11	ELECT	4.7uF	20%	100V
C862	1-124-477-11	ELECT	47uF	20%	25V
C863	1-130-479-00	MYLAR	0.0047uF	5%	50V
C871	1-164-159-11	CERAMIC	0.1uF		50V

Ref.No.	Part No.	Description	Remark
C872	1-164-159-11	CERAMIC 0.1uF	50V
C881	1-164-159-11	CERAMIC 0.1uF	50V
C882	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
CN301	* 1-573-979-11	CONNECTOR, BOARD TO BOARD 11P	
CN302	* 1-573-978-11	CONNECTOR, BOARD TO BOARD 11P	
CN303	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN304	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN305	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN307	* 1-568-824-11	SOCKET, CONNECTOR 5P	
CN309	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN501	* 1-564-337-61	PIN, CONNECTOR 3P	
CN704	* 1-568-830-11	SOCKET, CONNECTOR 11P	
CN801	* 1-568-824-11	SOCKET, CONNECTOR 5P	
CN821	* 1-506-503-61	PIN, CONNECTOR 9P	
CN822	* 1-564-666-11	PIN, CONNECTOR 10P	
CN831	* 1-564-342-11	PIN, CONNECTOR 8P	
CN841	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN891	* 1-564-342-11	PIN, CONNECTOR 8P	
CN892	* 1-564-337-00	PIN, CONNECTOR 3P	
CN893	* 1-568-830-11	SOCKET, CONNECTOR 11P	
< COMPOSITION CIRCUIT BLOCK >			
CP801	1-233-204-11	COMPOSITION CIRCUIT BLOCK	
CP802	1-233-199-11	COMPOSITION CIRCUIT BLOCK	
< DIODE >			
D101	8-719-912-20	DIODE 1SS120	
D201	8-719-912-20	DIODE 1SS120	
D301	8-719-912-20	DIODE 1SS120	
D302	8-719-912-20	DIODE 1SS120	
D303	8-719-912-20	DIODE 1SS120	
D304	8-719-912-20	DIODE 1SS120	
D305	8-719-912-20	DIODE 1SS120	
D307	8-719-912-20	DIODE 1SS120	
D308	8-719-912-20	DIODE 1SS120	
D309	8-719-912-20	DIODE 1SS120	
D505	8-719-912-20	DIODE 1SS120	
D506	8-719-933-33	DIODE HZS6A1L	
D507	8-719-912-20	DIODE 1SS120	
D508	8-719-912-20	DIODE 1SS120	
D509	8-719-912-20	DIODE 1SS120	
D801	8-719-912-20	DIODE 1SS120	
D802	8-719-912-20	DIODE 1SS120	
D851	8-719-912-20	DIODE 1SS120	
D861	8-719-912-20	DIODE 1SS120	

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Ref. No.	Part No.	Description	Remark
		< IC >	
IC301	8-759-111-44	IC uPC4570C-1	
IC302	8-752-035-94	IC CXA1331S	
IC303	8-752-038-02	IC CXA1198AP	
IC304	8-759-634-51	IC M5218AP	
IC305	8-759-945-58	IC RC4558P	
IC306	8-759-945-58	IC RC4558P	
IC307	8-759-106-56	IC uPC1297CA	
IC801	8-759-637-35	IC M50963-465SP	
IC871	8-759-973-95	IC BA6219B	
IC872	8-759-973-95	IC BA6219B	
IC881	8-759-973-95	IC BA6219B	
IC882	8-759-822-09	IC LB1641	
		< COIL >	
L101	1-410-776-11	INDUCTOR 12mH	
L201	1-410-776-11	INDUCTOR 12mH	
		< LOW PASS FILTER >	
LPF101	1-236-147-11	FILTER, LOW PASS	
LPF201	1-236-147-11	FILTER, LOW PASS	
		< JACK >	
PJ301	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
		< TRANSISTOR >	
Q101	8-729-900-74	TRANSISTOR DTC143TS	
Q102	8-729-900-80	TRANSISTOR DTC114ES	
Q103	8-729-900-74	TRANSISTOR DTC143TS	
Q104	8-729-922-37	TRANSISTOR 2SD2144S	
Q105	8-729-900-80	TRANSISTOR DTC114ES	
Q201	8-729-900-74	TRANSISTOR DTC143TS	
Q202	8-729-900-80	TRANSISTOR DTC114ES	
Q203	8-729-900-74	TRANSISTOR DTC143TS	
Q204	8-729-922-37	TRANSISTOR 2SD2144S	
Q205	8-729-900-80	TRANSISTOR DTC114ES	
Q301	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q302	8-729-900-80	TRANSISTOR DTC114ES	
Q303	8-729-900-61	TRANSISTOR DTA114ES	
Q304	8-729-900-61	TRANSISTOR DTA114ES	
Q305	8-729-900-80	TRANSISTOR DTC114ES	
Q306	8-729-142-46	TRANSISTOR 2SC2001-M	
Q307	8-729-142-46	TRANSISTOR 2SC2001-M	
Q308	8-729-900-61	TRANSISTOR DTA114ES	
Q309	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q310	8-729-900-61	TRANSISTOR DTA114ES	
Q311	8-729-900-80	TRANSISTOR DTC114ES	

Ref. No.	Part No.	Description	Remark
Q313	8-729-900-61	TRANSISTOR DTA114ES	
Q314	8-729-900-80	TRANSISTOR DTC114ES	
Q315	8-729-900-80	TRANSISTOR DTC114ES	
Q316	8-729-900-80	TRANSISTOR DTC114ES	
Q317	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q318	8-729-900-61	TRANSISTOR DTA114ES	
Q319	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q322	8-729-900-80	TRANSISTOR DTC114ES	
Q323	8-729-900-80	TRANSISTOR DTC114ES	
Q501	8-729-209-15	TRANSISTOR 2SD2012	
Q502	8-729-111-67	TRANSISTOR 2SA473	
Q503	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q504	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q505	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q506	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q507	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q851	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q852	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q853	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q861	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q862	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q883	8-729-900-80	TRANSISTOR DTC114ES	
Q884	8-729-900-80	TRANSISTOR DTC114ES	
Q885	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	
R101	1-249-428-11	CARBON 8.2K 5% 1/4W	
R102	1-249-435-11	CARBON 33K 5% 1/4W	
R103	1-249-403-11	CARBON 68 5% 1/4W	
R104	1-247-882-11	CARBON 130K 5% 1/4W	
R105	1-249-426-11	CARBON 5.6K 5% 1/4W	
R106	1-249-421-11	CARBON 2.2K 5% 1/4W	
R107	1-247-840-00	CARBON 2.4K 5% 1/4W	
R108	1-247-887-00	CARBON 220K 5% 1/4W	
R109	1-249-441-11	CARBON 100K 5% 1/4W	
R110	1-249-423-11	CARBON 3.3K 5% 1/4W	
R111	1-249-428-11	CARBON 8.2K 5% 1/4W	
R112	1-247-864-11	CARBON 24K 5% 1/4W	
R113	1-249-414-11	CARBON 560 5% 1/4W	
R116	1-249-421-11	CARBON 2.2K 5% 1/4W	
R117	1-249-429-11	CARBON 10K 5% 1/4W	
R118	1-249-427-11	CARBON 6.8K 5% 1/4W	
R120	1-249-425-11	CARBON 4.7K 5% 1/4W	
R121	1-249-425-11	CARBON 4.7K 5% 1/4W	
R123	1-249-433-11	CARBON 22K 5% 1/4W	
R124	1-249-417-11	CARBON 1K 5% 1/4W	
R125	1-249-421-11	CARBON 2.2K 5% 1/4W	
R126	1-249-431-11	CARBON 15K 5% 1/4W	
R127	1-249-433-11	CARBON 22K 5% 1/4W	

AUDIO SYSCON

Ref. No.	Part No.	Description	Remark		
R128	1-249-409-11	CARBON	220	5%	1/4W
R129	1-249-421-11	CARBON	2. 2K	5%	1/4W
R130	1-249-408-11	CARBON	180	5%	1/4W
R131	1-249-436-11	CARBON	39K	5%	1/4W
R132	1-249-429-11	CARBON	10K	5%	1/4W
R134	1-249-435-11	CARBON	33K	5%	1/4W
R135	1-249-437-11	CARBON	47K	5%	1/4W
R136	1-249-435-11	CARBON	33K	5%	1/4W
R137	1-249-429-11	CARBON	10K	5%	1/4W
R138	1-249-432-11	CARBON	18K	5%	1/4W
R141	1-249-434-11	CARBON	27K	5%	1/4W
R142	1-249-432-11	CARBON	18K	5%	1/4W
R143	△ 1-212-857-00	FUSIBLE	10	5%	1/4W F
R144	1-247-883-00	CARBON	150K	5%	1/4W
R201	1-249-428-11	CARBON	8. 2K	5%	1/4W
R202	1-249-435-11	CARBON	33K	5%	1/4W
R203	1-249-403-11	CARBON	68	5%	1/4W
R204	1-247-882-11	CARBON	130K	5%	1/4W
R205	1-249-426-11	CARBON	5. 6K	5%	1/4W
R206	1-249-421-11	CARBON	2. 2K	5%	1/4W
R207	1-247-840-00	CARBON	2. 4K	5%	1/4W
R208	1-247-887-00	CARBON	220K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-249-423-11	CARBON	3. 3K	5%	1/4W
R211	1-249-428-11	CARBON	8. 2K	5%	1/4W
R212	1-247-864-11	CARBON	24K	5%	1/4W
R213	1-249-414-11	CARBON	560	5%	1/4W
R216	1-249-421-11	CARBON	2. 2K	5%	1/4W
R217	1-249-429-11	CARBON	10K	5%	1/4W
R218	1-249-427-11	CARBON	6. 8K	5%	1/4W
R220	1-249-425-11	CARBON	4. 7K	5%	1/4W
R221	1-249-425-11	CARBON	4. 7K	5%	1/4W
R223	1-249-433-11	CARBON	22K	5%	1/4W
R224	1-249-417-11	CARBON	1K	5%	1/4W
R225	1-249-421-11	CARBON	2. 2K	5%	1/4W
R226	1-249-431-11	CARBON	15K	5%	1/4W
R227	1-249-433-11	CARBON	22K	5%	1/4W
R228	1-249-409-11	CARBON	220	5%	1/4W
R229	1-249-421-11	CARBON	2. 2K	5%	1/4W
R230	1-249-408-11	CARBON	180	5%	1/4W
R231	1-249-436-11	CARBON	39K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R234	1-249-435-11	CARBON	33K	5%	1/4W
R235	1-249-437-11	CARBON	47K	5%	1/4W
R236	1-249-435-11	CARBON	33K	5%	1/4W
R237	1-249-429-11	CARBON	10K	5%	1/4W
R238	1-249-432-11	CARBON	18K	5%	1/4W
R241	1-249-434-11	CARBON	27K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R242	1-249-432-11	CARBON	18K	5%	1/4W
R243	△ 1-212-857-00	FUSIBLE	10	5%	1/4W F
R244	1-247-883-00	CARBON	150K	5%	1/4W
R301	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-249-405-11	CARBON	100	5%	1/4W
R303	1-249-405-11	CARBON	100	5%	1/4W
R304	1-249-405-11	CARBON	100	5%	1/4W
R305	1-249-405-11	CARBON	100	5%	1/4W
R308	1-249-405-11	CARBON	100	5%	1/4W
R309	1-249-405-11	CARBON	100	5%	1/4W
R310	1-249-429-11	CARBON	10K	5%	1/4W
R311	1-249-430-11	CARBON	12K	5%	1/4W
R312	1-247-854-11	CARBON	9. 1K	5%	1/4W
R313	1-247-864-11	CARBON	24K	5%	1/4W
R314	1-249-441-11	CARBON	100K	5%	1/4W
R317	1-249-393-11	CARBON	10	5%	1/4W
R318	1-249-435-11	CARBON	33K	5%	1/4W
R319	1-249-435-11	CARBON	33K	5%	1/4W
R320	1-249-390-11	CARBON	5. 6	5%	1/6W
R321	1-249-390-11	CARBON	5. 6	5%	1/6W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-421-11	CARBON	2. 2K	5%	1/4W
R324	1-249-431-11	CARBON	15K	5%	1/4W
R325	1-249-403-11	CARBON	68	5%	1/4W
R326	1-249-429-11	CARBON	10K	5%	1/4W
R327	1-215-455-00	METAL	27K	1%	1/6W
R328	1-249-417-11	CARBON	1K	5%	1/4W
R329	1-249-417-11	CARBON	1K	5%	1/4W
R330	1-249-441-11	CARBON	100K	5%	1/4W
R331	1-247-864-11	CARBON	24K	5%	1/4W
R332	1-249-433-11	CARBON	22K	5%	1/4W
R333	1-247-870-11	CARBON	43K	5%	1/4W
R334	1-247-868-11	CARBON	36K	5%	1/4W
R335	1-247-878-00	CARBON	91K	5%	1/4W
R336	1-247-884-11	CARBON	160K	5%	1/4W
R337	1-249-437-11	CARBON	47K	5%	1/4W
R338	1-247-886-11	CARBON	200K	5%	1/4W
R339	1-247-866-11	CARBON	30K	5%	1/4W
R340	1-249-434-11	CARBON	27K	5%	1/4W
R341	1-247-872-11	CARBON	51K	5%	1/4W
R342	1-247-882-11	CARBON	130K	5%	1/4W
R343	1-247-874-11	CARBON	62K	5%	1/4W
R344	1-249-439-11	CARBON	68K	5%	1/4W
R345	1-247-870-11	CARBON	43K	5%	1/4W
R346	1-247-868-11	CARBON	36K	5%	1/4W
R347	1-249-435-11	CARBON	33K	5%	1/4W
R348	1-247-878-00	CARBON	91K	5%	1/4W
R349	1-249-438-11	CARBON	56K	5%	1/4W
R350	1-249-438-11	CARBON	56K	5%	1/4W

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

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

AUDIO SYSCON

Ref. No.	Part No.	Description	Remark
R351	1-249-409-11	CARBON 220 5%	1/4W
R352	1-249-441-11	CARBON 100K 5%	1/4W
R353	1-249-423-11	CARBON 3.3K 5%	1/4W
R354	1-249-421-11	CARBON 2.2K 5%	1/4W
R355	1-249-441-11	CARBON 100K 5%	1/4W
R356	1-247-887-00	CARBON 220K 5%	1/4W
R357	1-249-428-11	CARBON 8.2K 5%	1/4W
R358	1-249-429-11	CARBON 10K 5%	1/4W
R362	1-249-433-11	CARBON 22K 5%	1/4W
R363	1-249-405-11	CARBON 100 5%	1/4W
R364	1-249-429-11	CARBON 10K 5%	1/4W
R365	1-249-405-11	CARBON 100 5%	1/4W
R366	1-249-405-11	CARBON 100 5%	1/4W
R501	1-249-433-11	CARBON 22K 5%	1/4W
R502	1-249-421-11	CARBON 2.2K 5%	1/4W
R503	1-249-421-11	CARBON 2.2K 5%	1/4W
R504	1-249-421-11	CARBON 2.2K 5%	1/4W
R505	1-249-421-11	CARBON 2.2K 5%	1/4W
R506	1-249-417-11	CARBON 1K 5%	1/4W
R507	1-249-417-11	CARBON 1K 5%	1/4W
R508	1-249-417-11	CARBON 1K 5%	1/4W
R509	1-249-415-11	CARBON 680 5%	1/4W
R510	1-249-422-11	CARBON 2.7K 5%	1/4W
R511	1-249-424-11	CARBON 3.9K 5%	1/4W
R512	1-249-423-11	CARBON 3.3K 5%	1/4W
R801	1-249-405-11	CARBON 100 5%	1/4W
R802	1-249-405-11	CARBON 100 5%	1/4W
R803	1-249-405-11	CARBON 100 5%	1/4W
R804	1-249-405-11	CARBON 100 5%	1/4W
R805	1-249-405-11	CARBON 100 5%	1/4W
R806	1-249-405-11	CARBON 100 5%	1/4W
R807	1-249-405-11	CARBON 100 5%	1/4W
R808	1-249-405-11	CARBON 100 5%	1/4W
R809	1-249-433-11	CARBON 22K 5%	1/4W
R810	1-249-433-11	CARBON 22K 5%	1/4W
R811	1-249-433-11	CARBON 22K 5%	1/4W
R812	1-249-433-11	CARBON 22K 5%	1/4W
R813	1-249-425-11	CARBON 4.7K 5%	1/4W
R814	1-249-429-11	CARBON 10K 5%	1/4W
R815	1-249-429-11	CARBON 10K 5%	1/4W
R816	1-249-425-11	CARBON 4.7K 5%	1/4W
R821	1-249-425-11	CARBON 4.7K 5%	1/4W
R822	1-249-425-11	CARBON 4.7K 5%	1/4W
R823	1-249-425-11	CARBON 4.7K 5%	1/4W
R824	1-249-425-11	CARBON 4.7K 5%	1/4W
R825	1-249-436-11	CARBON 39K 5%	1/4W
R826	1-249-436-11	CARBON 39K 5%	1/4W
R827	1-249-409-11	CARBON 220 5%	1/4W
R830	1-249-433-11	CARBON 22K 5%	1/4W

Ref. No.	Part No.	Description	Remark
R831	1-249-425-11	CARBON 4.7K 5%	1/4W
R832	1-249-425-11	CARBON 4.7K 5%	1/4W
R833	1-249-425-11	CARBON 4.7K 5%	1/4W
R834	1-249-421-11	CARBON 2.2K 5%	1/4W
R835	1-249-433-11	CARBON 22K 5%	1/4W
R836	1-249-417-11	CARBON 1K 5%	1/4W
R837	1-249-417-11	CARBON 1K 5%	1/4W
R838	1-249-429-11	CARBON 10K 5%	1/4W
R839	1-249-429-11	CARBON 10K 5%	1/4W
R840	1-247-903-00	CARBON 1M 5%	1/4W
R851	1-249-425-11	CARBON 4.7K 5%	1/4W
R852	1-249-433-11	CARBON 22K 5%	1/4W
R853	1-249-433-11	CARBON 22K 5%	1/4W
R854	1-249-424-11	CARBON 3.9K 5%	1/4W
R855	1-249-425-11	CARBON 4.7K 5%	1/4W
R856	1-249-417-11	CARBON 1K 5%	1/4W
R857	1-249-437-11	CARBON 47K 5%	1/4W
R858	1-249-441-11	CARBON 100K 5%	1/4W
R859	1-249-429-11	CARBON 10K 5%	1/4W
R861	1-249-421-11	CARBON 2.2K 5%	1/4W
R862	1-249-429-11	CARBON 10K 5%	1/4W
R863	1-249-433-11	CARBON 22K 5%	1/4W
R864	1-249-429-11	CARBON 10K 5%	1/4W
R865	1-249-429-11	CARBON 10K 5%	1/4W
R866	1-249-417-11	CARBON 1K 5%	1/4W
R867	1-247-826-00	CARBON 620 5%	1/4W
R871	1-249-414-11	CARBON 560 5%	1/4W
R872	1-249-417-11	CARBON 1K 5%	1/4W
R873	1-249-482-11	CARBON 4.7 5%	1/2W
R874	1-247-822-11	CARBON 430 5%	1/4W
R875	1-249-417-11	CARBON 1K 5%	1/4W
R876	1-249-482-11	CARBON 4.7 5%	1/2W
R877	△ 1-212-942-00	FUSIBLE 2.2 5%	1/2W F
R880	1-249-411-11	CARBON 330 5%	1/4W
R881	1-247-830-11	CARBON 910 5%	1/4W
R882	1-249-418-11	CARBON 1.2K 5%	1/4W
R883	1-249-417-11	CARBON 1K 5%	1/4W
R884	1-249-482-11	CARBON 4.7 5%	1/2W
R885	1-249-421-11	CARBON 2.2K 5%	1/4W
R886	1-249-419-11	CARBON 1.5K 5%	1/4W
R887	1-249-417-11	CARBON 1K 5%	1/4W
R888	1-249-482-11	CARBON 4.7 5%	1/2W
R889	1-249-429-11	CARBON 10K 5%	1/4W
< VARIABLE RESISTOR >			
RV101	1-238-019-11	RES. ADJ. CARBON 47K	
RV102	1-238-016-11	RES. ADJ. CARBON 10K	
RV103	1-238-016-11	RES. ADJ. CARBON 10K	

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

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AUDIO SYSCON

TRANSLATION

MD

PANEL POWER

Ref.No.	Part No.	Description	Remark
RV201	1-238-019-11	RES, ADJ, CARBON 47K	
RV202	1-238-016-11	RES, ADJ, CARBON 10K	
RV203	1-238-016-11	RES, ADJ, CARBON 10K	
RV861	1-238-019-11	RES, ADJ, CARBON 47K	
RV881	1-238-016-11	RES, ADJ, CARBON 10K	
< RELAY >			
RY301	1-515-683-11	RELAY	
< TRANSFORMER >			
T141	1-433-335-11	TRANSFORMER, BIAS OSCILLATION	
T241	1-433-335-11	TRANSFORMER, BIAS OSCILLATION	
T301	1-433-336-11	TRANSFORMER, BIAS OSCILLATION	
< CONNECTOR >			
TP341	* 1-568-449-11	HOUSING, CONNECTOR(PC BOARD) 3P	
TP801	* 1-564-506-11	PLUG, CONNECTOR 3P	
TP802	* 1-564-506-11	PLUG, CONNECTOR 3P	
TP861	* 1-564-505-11	PLUG, CONNECTOR 2P	
< CRYSTAL >			
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

* 1-634-323-11 TRANSLATION BOARD			

< CONNECTOR >			
CN1091	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN1092	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN1093	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN1094	* 1-564-506-11	PLUG, CONNECTOR 3P	

* 1-632-740-11 MD BOARD			

3-356-631-01 HOLDER (SENSOR)			
< CONNECTOR >			
CN1001	1-506-615-11	PIN, CONNECTOR 9P	
CN1002	* 1-564-502-11	PIN, CONNECTOR 10P	
< IC >			
IC1001	8-749-920-97	PHOTOSENSOR GP2S22B	
IC1002	8-749-920-97	PHOTOSENSOR GP2S22B	

Ref.No.	Part No.	Description	Remark
< RESISTOR >			
R1001	1-249-407-11	CARBON 150 5% 1/4W	
R1002	1-249-407-11	CARBON 150 5% 1/4W	
< SWITCH >			
S1003	1-571-958-11	SWITCH, PUSH (1 KEY) (CLOSE)	
S1004	1-572-126-11	SWITCH, PUSH (1 KEY) (OPEN)	
S1005	1-572-125-11	SWITCH, LEAF (FWD TAB)	
S1006	1-572-202-11	SWITCH, LEAF (HALF)	
S1007	1-572-125-11	SWITCH, LEAF (METAL)	
S1008	1-572-125-11	SWITCH, LEAF (70uS)	
S1009	1-572-125-11	SWITCH, LEAF (REV TAB)	
< CONNECTOR >			
TB1001	* 1-569-066-11	PIN, CONNECTOR 5P	

* A-2006-621-A PANEL POWER BOARD, COMPLETE (including			
PANEL (L) BOARD, PANEL (R) BOARD, POWER			
SUPPLY BOARD, TRANS BOARD, H. P BOARD)			

* 1-533-213-31 HOLDER, FUSE			
* 3-309-144-21 HEAT SINK			
* 3-350-145-01 HOLDER, FL TUBE			
7-682-547-04 SCREW +BVTT 3X6 (S)			
7-685-646-79 SCREW +BVTP 3X8 TYPE2			
< CAPACITOR >			
C334	1-164-159-11	CERAMIC 0.1uF 50V	
C701	1-124-907-11	ELECT 10uF 20% 50V	
C702	1-126-946-11	ELECT 6800uF 20% 25V	
C703	1-124-477-11	ELECT 47uF 20% 25V	
C704	1-124-898-11	ELECT 4700uF 20% 16V	
C705	1-124-556-11	ELECT 2200uF 20% 16V	
C706	1-124-443-00	ELECT 100uF 20% 10V	
C707	1-124-471-00	ELECT 1000uF 20% 6.3V	
C708	1-124-911-11	ELECT 220uF 20% 50V	
C709	1-124-927-11	ELECT 4.7uF 20% 100V	
C710	1-124-927-11	ELECT 4.7uF 20% 100V	
C711	1-124-556-11	ELECT 2200uF 20% 16V	
C712	1-124-556-11	ELECT 2200uF 20% 16V	
C901	1-126-154-11	ELECT 47uF 20% 6.3V	
C902	1-164-159-11	CERAMIC 0.1uF 50V	
C903	1-161-494-00	CERAMIC 0.022uF 25V	
C904	1-162-286-31	CERAMIC 220PF 10% 50V	
C905	1-162-286-31	CERAMIC 220PF 10% 50V	
C906	1-161-494-00	CERAMIC 0.022uF 25V	

PANEL POWER

Ref. No.	Part No.	Description	Remark
C907	1-126-163-11	ELECT 4.7uF	20% 50V
C991	1-126-163-11	ELECT 4.7uF	20% 50V

< CONNECTOR >

CN306	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN308	* 1-568-824-11	SOCKET, CONNECTOR 5P	
CN701	* 1-568-830-21	SOCKET, CONNECTOR 11P	
CN702	* 1-568-830-21	SOCKET, CONNECTOR 11P	
CN703	* 1-568-830-11	SOCKET, CONNECTOR 11P	

CN705	△* 1-508-882-00	BASE POST	
CN802	* 1-568-824-11	SOCKET, CONNECTOR 5P	
CN901	* 1-568-830-11	SOCKET, CONNECTOR 11P	
CN902	* 1-568-830-11	SOCKET, CONNECTOR 11P	

< DIODE >

D701	8-719-200-77	DIODE 10E2N	
D702	8-719-500-36	DIODE D2SB20	
D703	8-719-912-20	DIODE 1SS120	
D704	8-719-001-54	DIODE UZL-11H2	
D705	8-719-200-77	DIODE 10E2N	

D706	8-719-933-41	DIODE HZS6C3L	
D707	8-719-912-20	DIODE 1SS120	
D708	8-719-933-38	DIODE HZS6B3L	
D709	8-719-200-77	DIODE 10E2N	
D710	8-719-200-77	DIODE 10E2N	

D711	8-719-200-77	DIODE 10E2N	
D712	8-719-200-77	DIODE 10E2N	
D713	8-719-912-20	DIODE 1SS120	

< FUSE >

F1	△ 1-532-259-00	FUSE, TIME-LAG (T1.6A 250V) (AEP, G, UK)	
F1	△ 1-532-742-11	FUSE, GLASS TUBE (1.6A 125V)	(US, Canadian)
F2	△ 1-532-259-00	FUSE, TIME-LAG (T1.6A 250V) (AEP, G, UK)	
F2	△ 1-532-742-11	FUSE, GLASS TUBE (1.6A 125V)	(US, Canadian)

< INDICATOR TUBE >

FL901	1-519-687-11	INDICATOR TUBE, FLUORESCENT	
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< IC >

IC901	8-759-637-33	IC M50940-340SP	
IC991	8-741-100-48	IC SBX1610-59	

< JACK >

J501	1-507-981-11	JACK (LARGE TYPE) (HEADPHONES)	
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< TRANSISTOR >

Q701	8-729-620-05	TRANSISTOR 2SC2603-EF	
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Ref. No.	Part No.	Description	Remark
Q702	8-729-111-67	TRANSISTOR 2SA473	
Q703	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q705	8-729-209-15	TRANSISTOR 2SD2012	

Q706	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q707	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q991	8-729-900-61	TRANSISTOR DTA114ES	

< RESISTOR >

R359	1-249-413-11	CARBON 470 5%	1/4W
R360	1-249-413-11	CARBON 470 5%	1/4W
R701	1-249-433-11	CARBON 22K 5%	1/4W
R702	1-249-419-11	CARBON 1.5K 5%	1/4W
R704	△ 1-219-136-11	FUSIBLE 0.22 10%	1/4W F

R705	1-249-422-11	CARBON 2.7K 5%	1/4W
R706	1-249-421-11	CARBON 2.2K 5%	1/4W
R707	1-249-422-11	CARBON 2.7K 5%	1/4W
R708	1-249-430-11	CARBON 12K 5%	1/4W
R709	1-249-429-11	CARBON 10K 5%	1/4W

R710	1-249-436-11	CARBON 39K 5%	1/4W
R712	△ 1-219-139-11	FUSIBLE 0.68 10%	1/4W F
R713	△ 1-219-139-11	FUSIBLE 0.68 10%	1/4W F
R791	△ 1-249-385-11	CARBON 2.2 5%	1/6W
R901	1-249-405-11	CARBON 100 5%	1/4W

R902	1-249-405-11	CARBON 100 5%	1/4W
R903	1-249-405-11	CARBON 100 5%	1/4W
R904	1-249-405-11	CARBON 100 5%	1/4W
R905	1-249-405-11	CARBON 100 5%	1/4W
R906	1-249-405-11	CARBON 100 5%	1/4W

R907	1-249-433-11	CARBON 22K 5%	1/4W
R908	1-249-417-11	CARBON 1K 5%	1/4W
R909	1-247-903-00	CARBON 1M 5%	1/4W
R911	1-247-856-00	CARBON 11K 5%	1/4W
R912	1-247-856-00	CARBON 11K 5%	1/4W

R913	1-247-856-00	CARBON 11K 5%	1/4W
R914	1-247-856-00	CARBON 11K 5%	1/4W
R915	1-247-856-00	CARBON 11K 5%	1/4W
R916	1-247-856-00	CARBON 11K 5%	1/4W
R917	1-249-421-11	CARBON 2.2K 5%	1/4W

R918	1-249-421-11	CARBON 2.2K 5%	1/4W
R919	1-249-425-11	CARBON 4.7K 5%	1/4W
R920	1-249-421-11	CARBON 2.2K 5%	1/4W
R921	1-249-409-11	CARBON 220 5%	1/4W
R922	1-249-409-11	CARBON 220 5%	1/4W

R923	1-249-409-11	CARBON 220 5%	1/4W
R931	1-249-421-11	CARBON 2.2K 5%	1/4W
R932	1-249-423-11	CARBON 3.3K 5%	1/4W
R933	1-249-426-11	CARBON 5.6K 5%	1/4W
R934	1-247-856-00	CARBON 11K 5%	1/4W

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PANEL POWER

REAL MOTOR

SLIDER

Ref.No.	Part No.	Description	Remark
R935	1-249-435-11	CARBON 33K 5% 1/4W	
R941	1-249-421-11	CARBON 2.2K 5% 1/4W	
R942	1-249-423-11	CARBON 3.3K 5% 1/4W	
R943	1-249-426-11	CARBON 5.6K 5% 1/4W	
R944	1-247-856-00	CARBON 11K 5% 1/4W	
R951	1-249-421-11	CARBON 2.2K 5% 1/4W	
R952	1-249-423-11	CARBON 3.3K 5% 1/4W	
R953	1-249-426-11	CARBON 5.6K 5% 1/4W	
R954	1-247-856-00	CARBON 11K 5% 1/4W	
R955	1-249-435-11	CARBON 33K 5% 1/4W	
R961	1-249-421-11	CARBON 2.2K 5% 1/4W	
R962	1-249-423-11	CARBON 3.3K 5% 1/4W	
R963	1-249-426-11	CARBON 5.6K 5% 1/4W	
R964	1-247-856-00	CARBON 11K 5% 1/4W	
R971	1-249-421-11	CARBON 2.2K 5% 1/4W	
R981	1-249-421-11	CARBON 2.2K 5% 1/4W	
R991	1-249-429-11	CARBON 10K 5% 1/4W	
< VARIABLE RESISTOR >			
RV301	1-241-524-11	RES. VAR. CARBON 50K/50K (REC REVEL)	
RV302	1-241-655-11	RES. VAR. CARBON 50K/50K (BALANCE)	
< SWITCH >			
S301	1-572-374-11	SWITCH, SLIDE (DOLBY NR)	
S893	1-570-953-11	SWITCH, PUSH (1 KEY) (CASSETE LID)	
S931	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)	
S932	1-554-303-21	SWITCH, TACTILE (REW)	
S933	1-554-303-21	SWITCH, TACTILE (FF)	
S934	1-554-303-21	SWITCH, TACTILE (REC)	
S935	1-554-303-21	SWITCH, TACTILE (COUNTER RESET)	
S936	1-554-303-21	SWITCH, TACTILE (COUNTER MEMOLY)	
S941	1-554-303-21	SWITCH, TACTILE (STOP)	
S942	1-554-303-21	SWITCH, TACTILE (PAUSE)	
S943	1-554-303-21	SWITCH, TACTILE (FWD)	
S944	1-554-303-21	SWITCH, TACTILE (REV)	
S945	1-554-303-21	SWITCH, TACTILE (REC MUTE)	
S951	1-554-303-21	SWITCH, TACTILE (SKIP)	
S952	1-554-303-21	SWITCH, TACTILE (BL SKIP)	
S953	1-554-303-21	SWITCH, TACTILE (ALL REW)	
S954	1-554-303-21	SWITCH, TACTILE (CD SYNC)	
S955	1-554-303-21	SWITCH, TACTILE (SHUFFLE)	
S956	1-554-303-21	SWITCH, TACTILE (PROGRAM)	
S961	1-554-303-21	SWITCH, TACTILE (1)	
S962	1-554-303-21	SWITCH, TACTILE (2)	
S963	1-554-303-21	SWITCH, TACTILE (3)	
S964	1-554-303-21	SWITCH, TACTILE (4)	
S965	1-554-303-21	SWITCH, TACTILE (5)	
S971	1-571-520-11	SWITCH, SLIDE (DIRECTION)	

Ref.No.	Part No.	Description	Remark
S981	1-571-520-11	SWITCH, SLIDE (TIMER)	
S991	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	
< TRANSFORMER >			
T1	△ 1-450-444-11	TRANSFORMER, POWER (US, Canadian)	
T1	△ 1-450-446-11	TRANSFORMER, POWER (AEP, G, UK)	
< THERMISTOR >			
TH791	△ 1-806-882-11	THERMISTOR (POSITIVE)	
< CRYSTAL >			
X901	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	

* 1-632-741-11 REAL MOTOR BOARD			

< CAPACITOR >			
C1051	1-124-907-11	ELECT 10uF 20% 50V	
C1052	1-124-907-11	ELECT 10uF 20% 50V	
C1053	1-164-159-11	CERAMIC 0.1uF 50V	
< CONNECTOR >			
CN1051	1-564-501-11	PIN, CONNECTOR 8P	
CN1052	* 1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN1053	* 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
< MOTOR >			
M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
< RESISTOR >			
R1051	1-249-414-11	CARBON 560 5% 1/4W	

* 1-641-110-11 SLIDER BOARD (including DRUM PULSE BOARD, DRUM TRAY MOTOR BOARD, DRUM CLK BOARD, IN/OUT SW BOARD)			

< CAPACITOR >			
C891	1-124-768-11	ELECT 4.7uF 20% 50V	
C892	1-124-768-11	ELECT 4.7uF 20% 50V	
C893	1-164-159-11	CERAMIC 0.1uF 50V	
C894	1-164-159-11	CERAMIC 0.1uF 50V	

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SLIDER

Ref. No.	Part No.	Description	Remark
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< CONNECTOR >

CN894	* 1-568-830-11	SOCKET, CONNECTOR 11P	
CN895	* 1-564-338-00	PIN, CONNECTOR 4P	
CN896	* 1-564-337-00	PIN, CONNECTOR 3P	
CN898	* 1-564-337-61	PIN, CONNECTOR 3P	

< DIODE >

D891	8-719-970-19	PHOTOINTERRUPTER GP-1A521	
D892	8-719-970-19	PHOTOINTERRUPTER GP-1A521	

< MOTOR >

M891	X-3363-669-1	MOTOR (TRAY) ASSY	
M892	X-3363-670-1	MOTOR (DRUM) ASSY	

< RESISTOR >

R891	1-249-413-11	CARBON	470	5%	1/4W
R892	1-249-413-11	CARBON	470	5%	1/4W

< SWITCH >

S891	1-571-300-21	SWITCH, ROTARY (TRAY I/O)	
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MISCELLANEOUS

i-590-575-11

64	1-534-517-00	WIRE, FLAT TYPE (11 CORE)
67	1-690-319-11	WIRE, FLAT TYPE (11 CORE)
68	1-575-779-11	WIRE, FLAT TYPE (5 CORE)
69	1-575-778-11	WIRE, FLAT TYPE (5 CORE)
158	1-534-517-00	WIRE, FLAT TYPE (11 CORE)
	<i>i-590-575-11</i>	
159	1-690-320-11	WIRE, FLAT TYPE (11 CORE)
160	1-534-517-00	WIRE, FLAT TYPE (11 CORE)
162	△ 1-555-465-00	CORD, POWER (US, Canadian)
162	△ 1-555-795-00	CORD, POWER, EULO PLUG (AEP, G)
162	△ 1-556-035-00	CORD, POWER (UK)

D1091	8-719-950-74	PHOTOINTERRUPTER SLR314D
D1001	8-719-980-85	LED SLF325C (CASSETTE)
HRPE1001	A-2003-722-A	SLIDER (R4) COMPLETE ASSY (This parts, if ordered, contains the SENSOR board.)
Q1091	8-729-809-43	PHOTOINTERRUPTER SPS-314B
S892	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (MID)
S1001	1-466-525-11	ENCODER, ROTARY

Ref. No.	Part No.	Description	Remark
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ACCESSORIES & PACKING MATERIALS

	1-465-912-11	REMOTE COMMANDER (RM-J801)
	1-559-533-11	CORD, CONNECTION
*	3-371-943-01	CUSHION
*	3-371-944-01	INDIVIDUAL CARTON
	3-703-450-01	INSTRUCTION (US)
	3-754-020-11	MANUAL, INSTRUCTION (AEP, UK) (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
	3-754-020-21	MANUAL, INSTRUCTION (US, Canadian) (ENGLISH)
	3-754-020-31	MANUAL, INSTRUCTION (Canadian) (FRENCH)
	3-754-020-41	MANUAL, INSTRUCTION (AEP) (GERMAN, DUTCH, SWEDISH, ITALIAN)
	3-754-020-51	MANUAL, INSTRUCTION (G) (FRENCH)

HARDWARE LIST

#1	7-682-548-09	SCREW +BVTT 3X8 (S)
#2	7-621-775-40	SCREW (2.6X8), STPWH
#3	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S
#4	7-621-770-67	SCREW +BVTT 2.6X6 (S)
#5	7-627-854-07	PRECISION SCREW +P 2X2.5 TYPE3
#6	7-623-421-07	LW 2.6, TYPE B
#7	7-621-775-00	SCREW +B 2.6X3
#8	7-621-775-68	SCREW +BVTT 2.6X12 (S)
#9	7-682-547-09	SCREW +BV 3X6, S TIGHT
#10	7-682-547-04	SCREW +BVTT 3X6 (S)
#11	7-621-849-00	SCREW (BV/RING)
#12	7-621-773-93	SCREW (PANEL 2.6 TP2)
#13	7-687-233-11	SCREW (+ PTPWH) (2.6X6)
#14	7-685-646-79	SCREW +BVTP 3X8 TYPE2
#15	7-685-870-09	SCREW +BVTT 3X5 (S)
#16	7-621-773-95	SCREW +BVTT 2.6X6 (S)
#17	7-621-255-35	SCREW +BVTT 2X5 (S)
#18	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S

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

Les composants identifiés par une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC-C5

SONY[®] SERVICE MANUAL

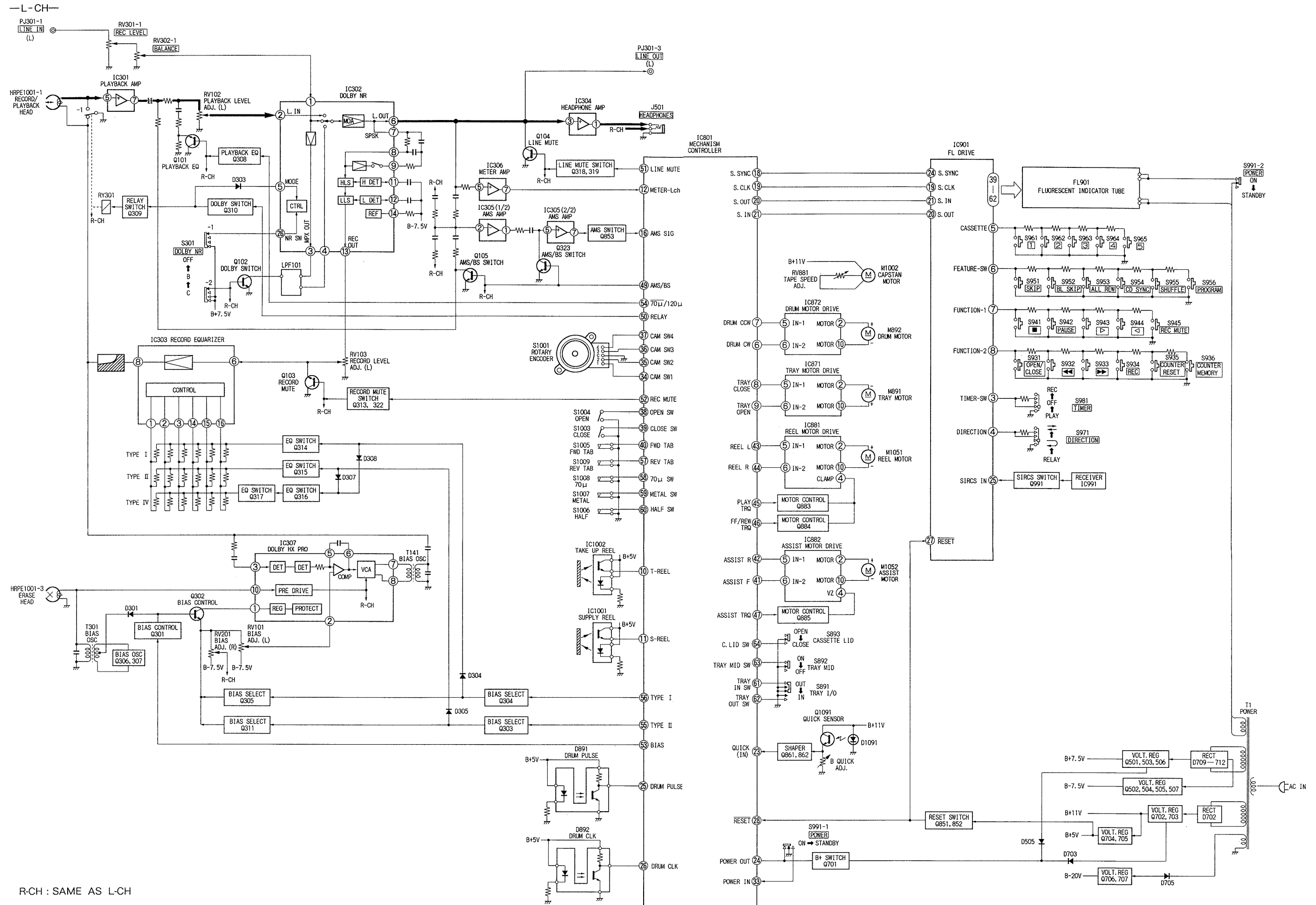
*US Model
Canadian Model
AEP Model
UK Model*

SUPPLEMENT-1

File this Supplement with the Service Manual.

BLOCK DIAGRAM

BLOCK DIAGRAM



SONY[®] SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

CORRECTION-1

File this Correction with the Service Manual.

US Model Only (Serial No. 800,001 – 808,000)

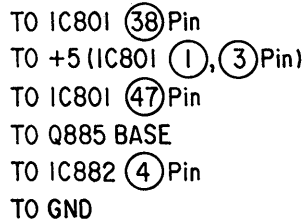
The explanation on the ASSIST circuit board was not included in the already issued Service Manual (US Model), and therefore we wish to add explanations for its circuit, mounting diagram and list of electric parts.

● **ELECTRICAL PARTS LIST** (Service Manual See page 41 – 49)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
* CN803	1-564-509-11	PLUG, CONNECTOR 6P	Added
IC883	8-759-140-11	IC μ PD4011BC	Added
Q886	8-729-900-65	TRANSISTOR DTA144ES	Added
Q887	8-729-900-80	TRANSISTOR DTC114ES	Added
R870	1-249-429-11	CARBON (SMALL) 10K 5% 1/4W	Added

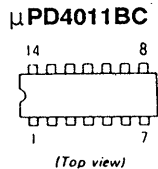
(Service Manual See page 19 – 22)

【 ASSIST BOARD 】



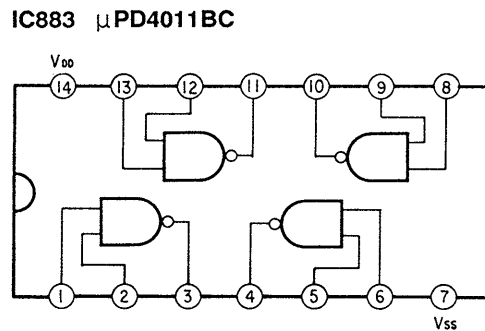
- **Semiconductor Lead Layout**

(Service Manual See page 34)



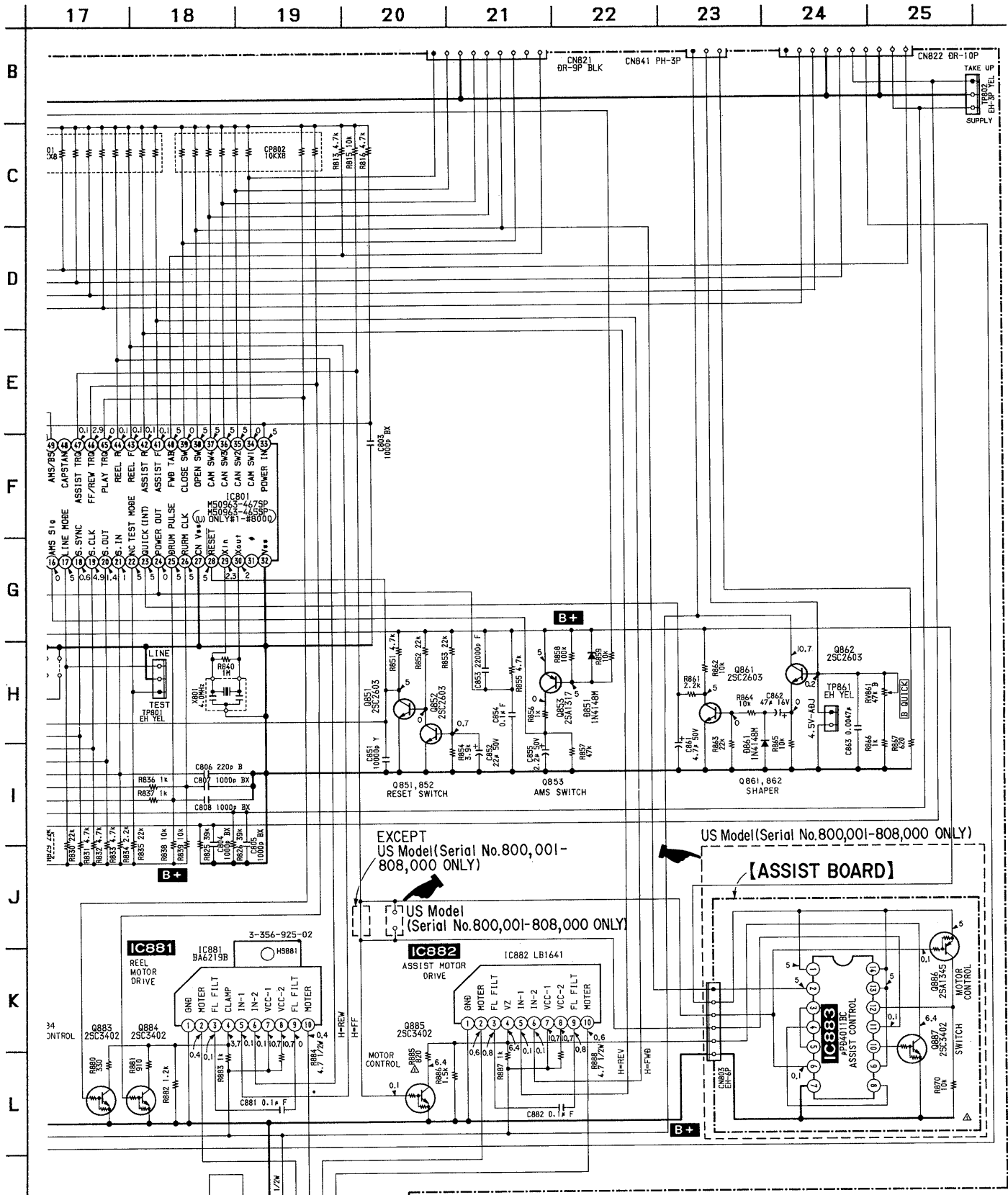
- **IC Block Diagram**

(Service Manual See page 26)



SCHEMATIC DIAGRAMS — System Control Section —
(Service Manual See page 23 — 26)

 : Corrected portion



SONY® SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model*

CORRECTION-2

Correct your service manual as shown below.

____ (Under line) : indicates corrected portion.

Page	INCORRECT			CORRECT		
	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
36	64	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	64	<u>1-590-575-11</u>	WIRE, FLAT TYPE (11 CORE)
38	158	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	158	<u>1-590-575-11</u>	WIRE, FLAT TYPE (11 CORE)
	160	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	160	<u>1-590-575-11</u>	WIRE, FLAT TYPE (11 CORE)
49	64	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	64	<u>1-590-575-11</u>	WIRE, FLAT TYPE (11 CORE)
	158	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	158	<u>1-590-575-11</u>	WIRE, FLAT TYPE (11 CORE)
	160	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	160	<u>1-590-575-11</u>	WIRE, FLAT TYPE (11 CORE)

(SPM-96017)