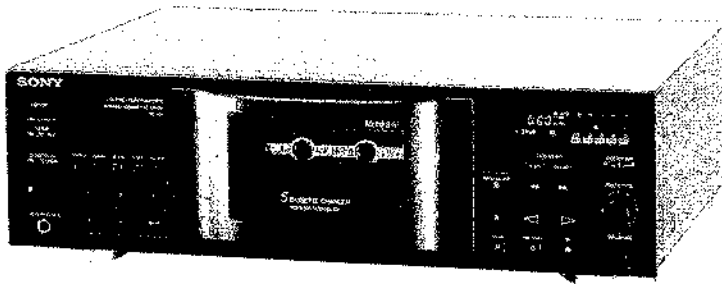


# TC-C5

## SERVICE MANUAL

US Model  
Canadian Model  
AEP Model  
UK Model



### SPECIFICATIONS

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

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)  
 0.05% WRMS (NAB)  
 ±0.15% W. Peak (DIN)

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 × 5<sup>3</sup>/<sub>8</sub> × 13<sup>7</sup>/<sub>8</sub> 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.

\* 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.

STEREO CASSETTE DECK  
**SONY**®



## SAFETY CHECK-OUT

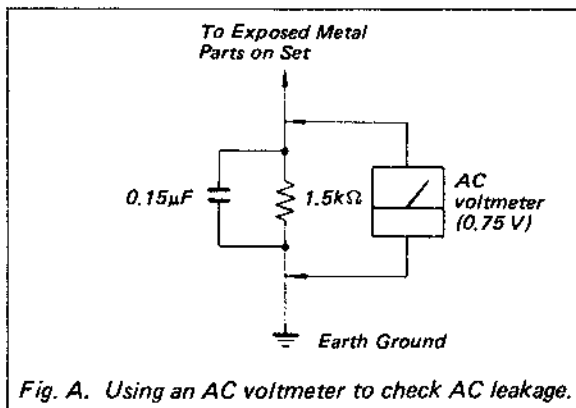
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

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

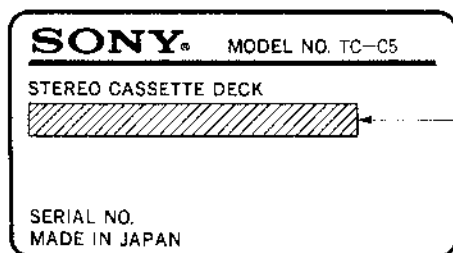
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

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!

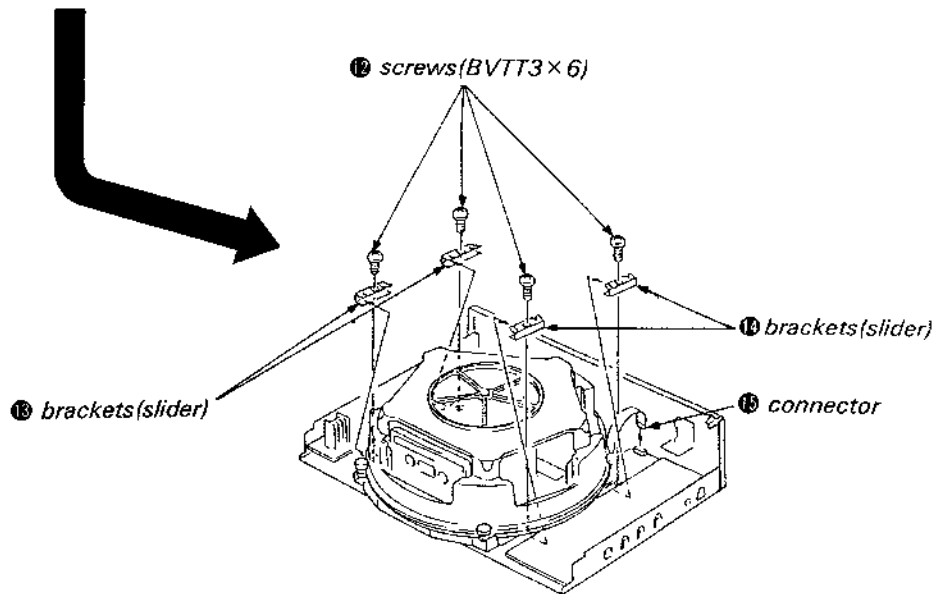
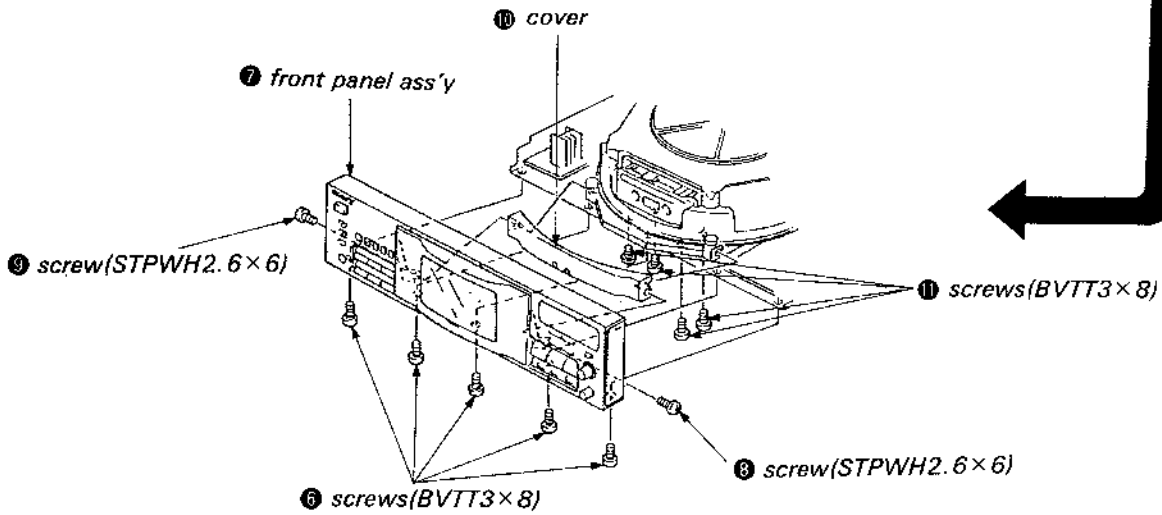
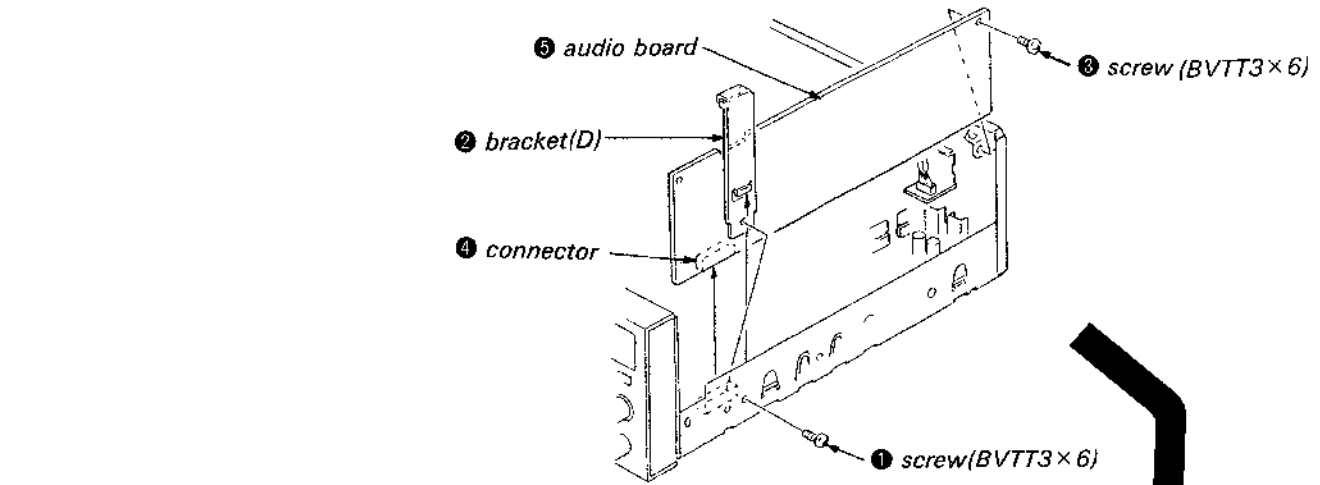
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

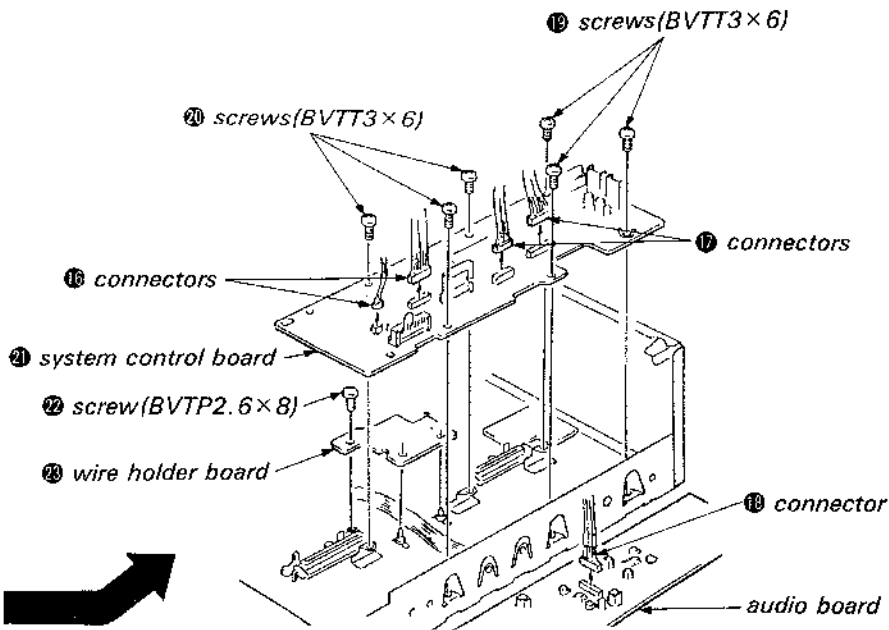
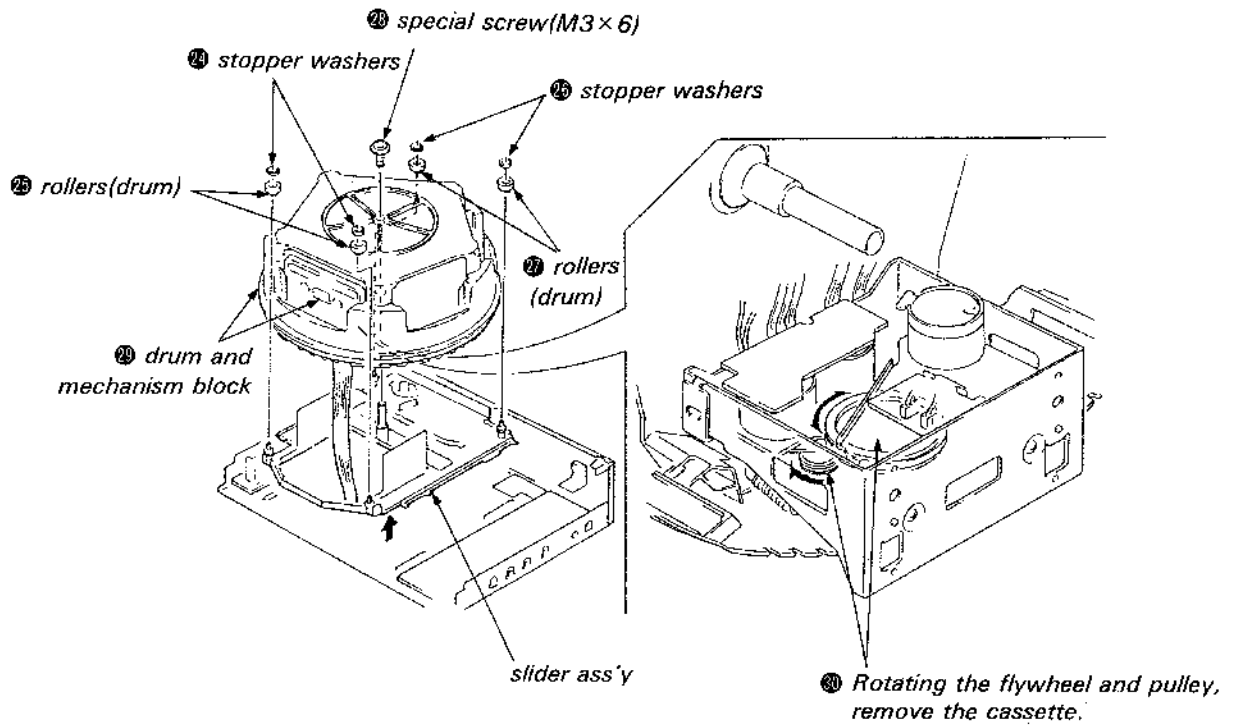
# SERVICE NOTE

## 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.



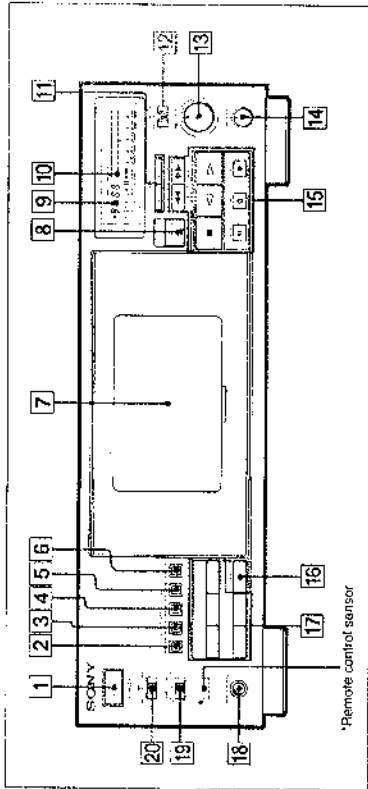


# SECTION 1 GENERAL

This section is extracted from instruction manual.

## Identifying the Parts

### Front Panel



\*Remote control sensor

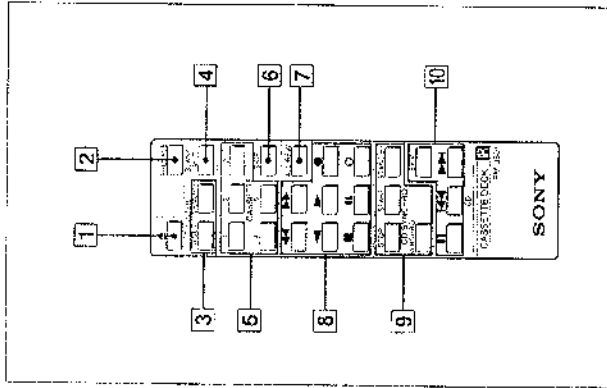
For details, refer to the page number indicated in ●

- 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  
 ●● (reverse 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 that has the mark and cassette deck control capability.
  - An optional Sony remote commander with the mark and cassette deck control capability.

### Remote Commander

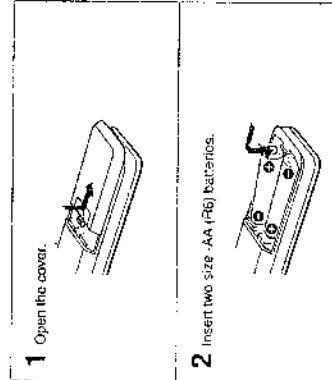


The controls on the remote commander are identical in function and operation to those with the same name on the main unit.

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 for controlling Sony CD players  
 ● (pause) button  
 ● (play) button  
 ● (stop) button  
 ● (eject) button

### 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(MS) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

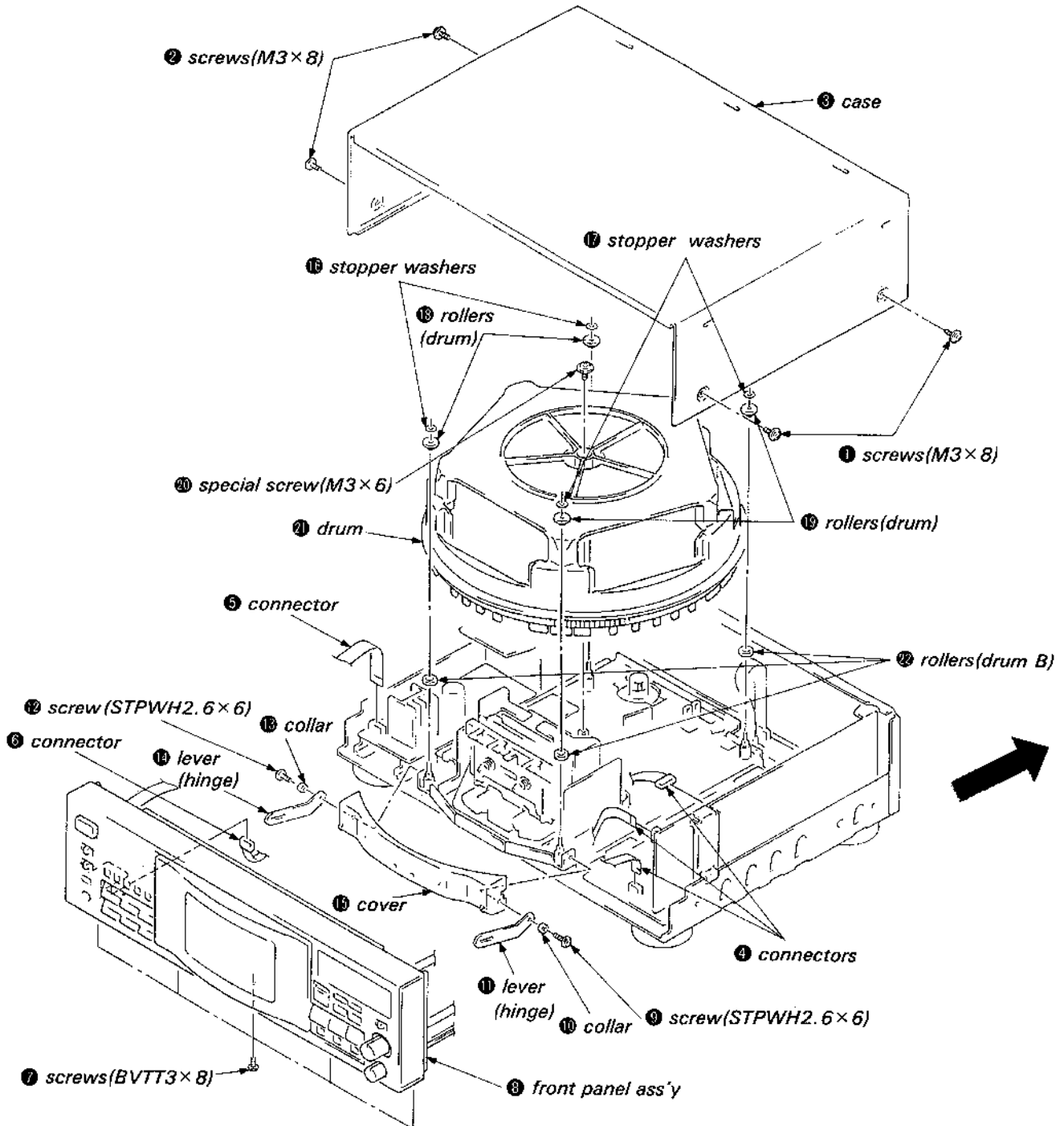
#### On handling

- 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.

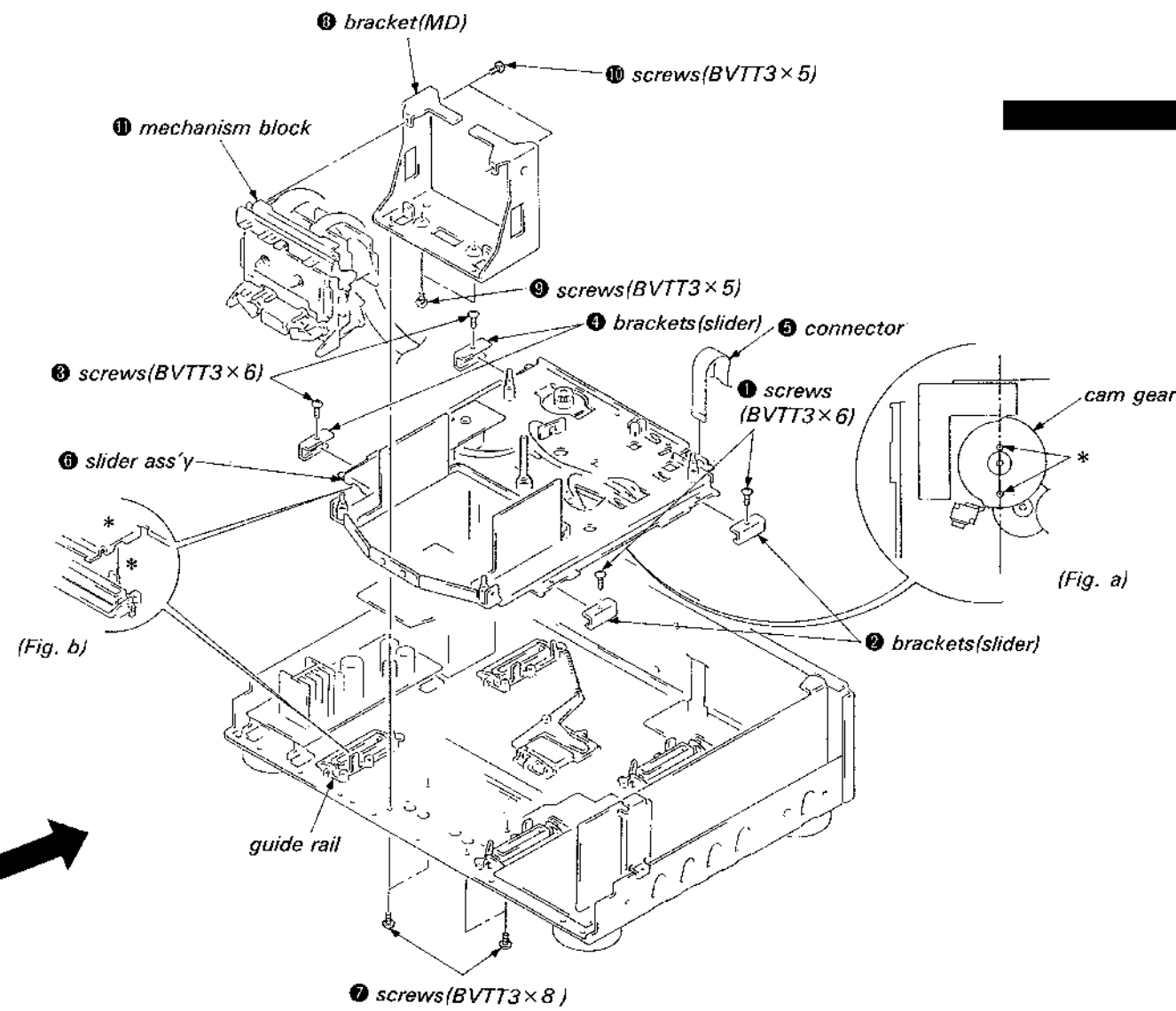
## SECTION 2 DISASSEMBLY

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

### DRUM



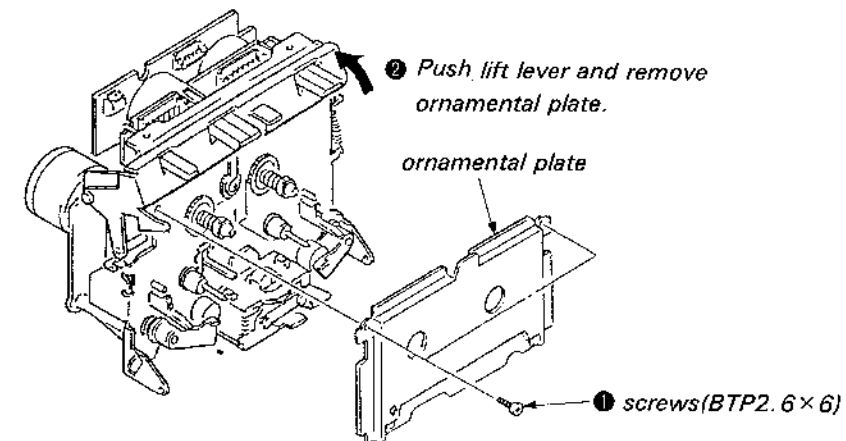
MECHANISM BLOCK



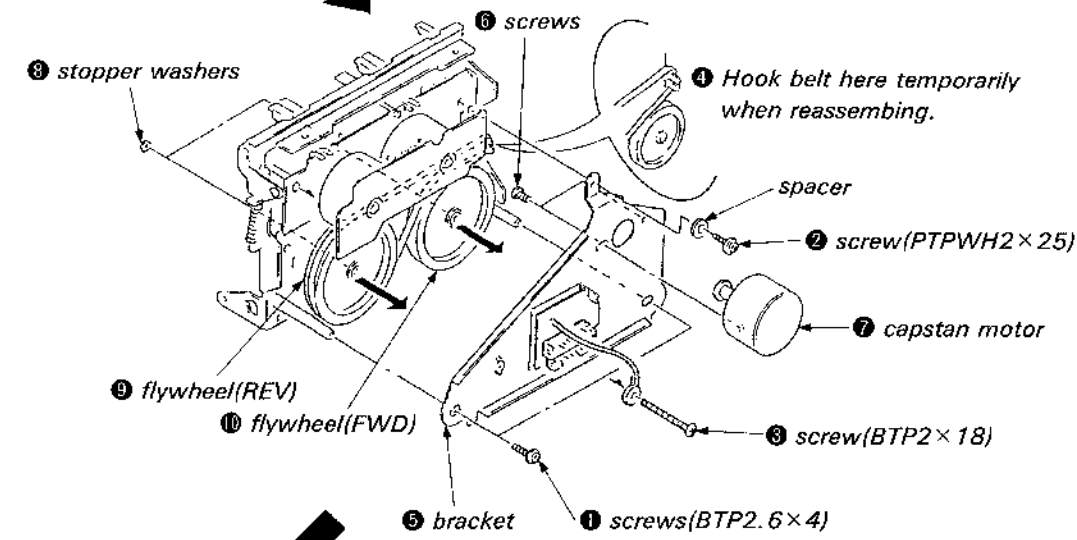
(Installation)

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.

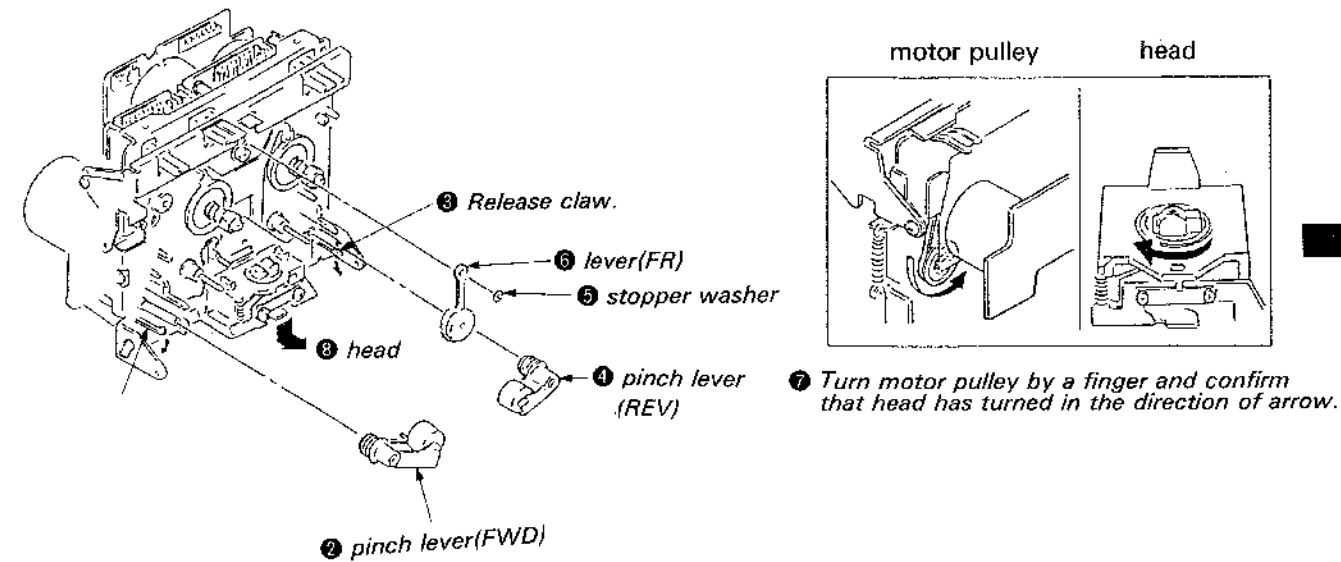
ORNAMENTAL PLATE



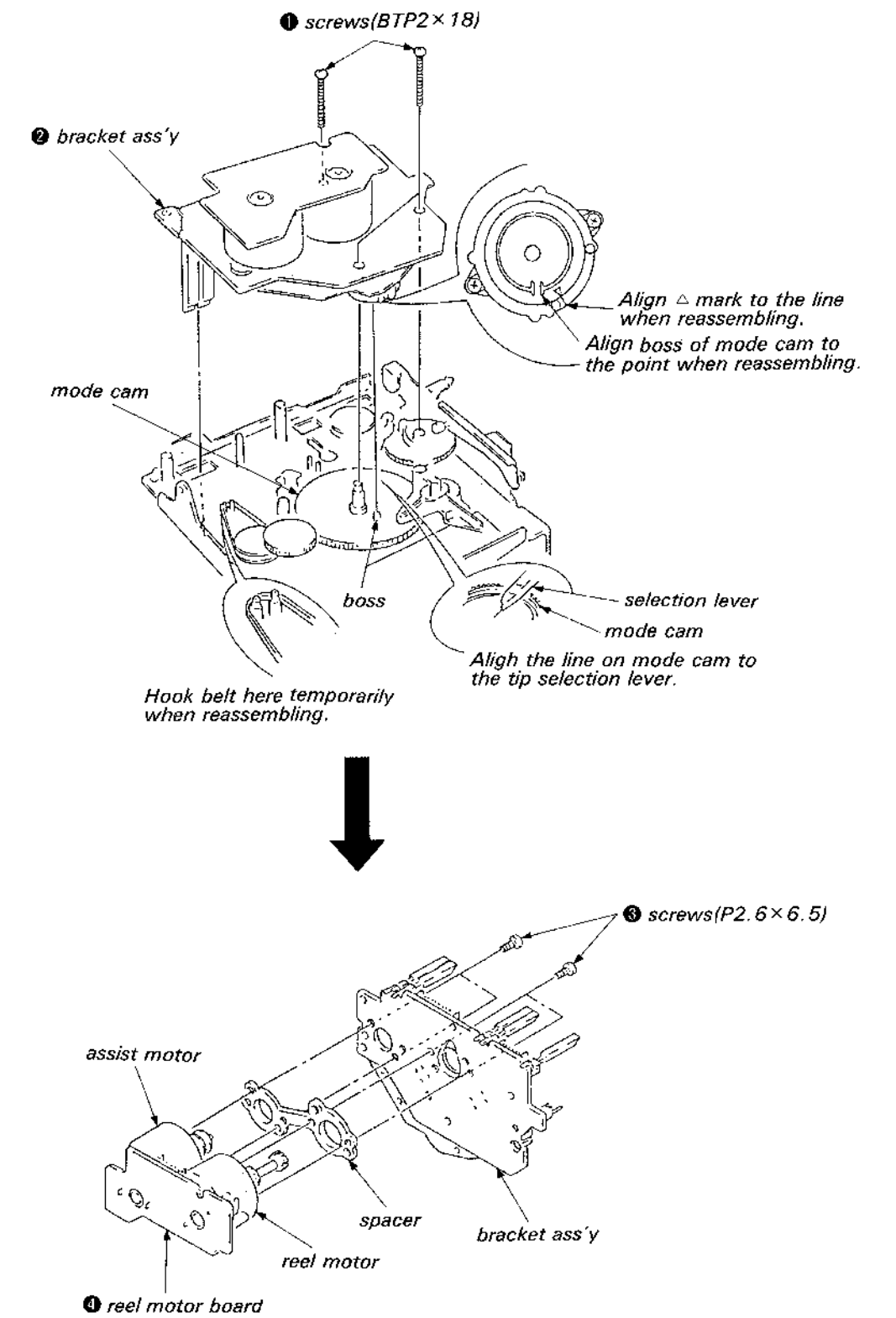
CAPSTAN MOTOR/FLYWHEEL



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.

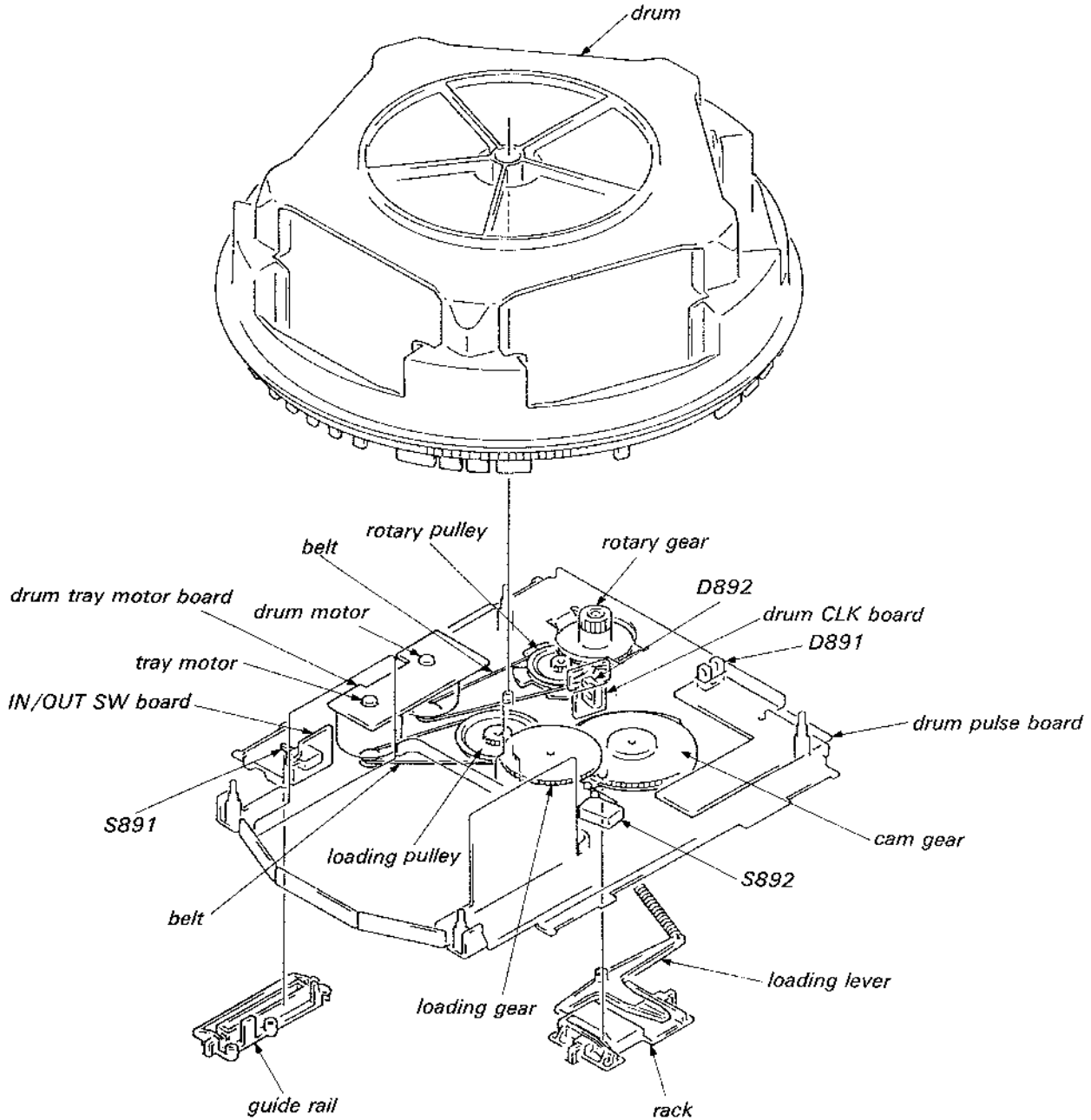


Fig. 1

## 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  $\text{\textcircled{A}}$  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.

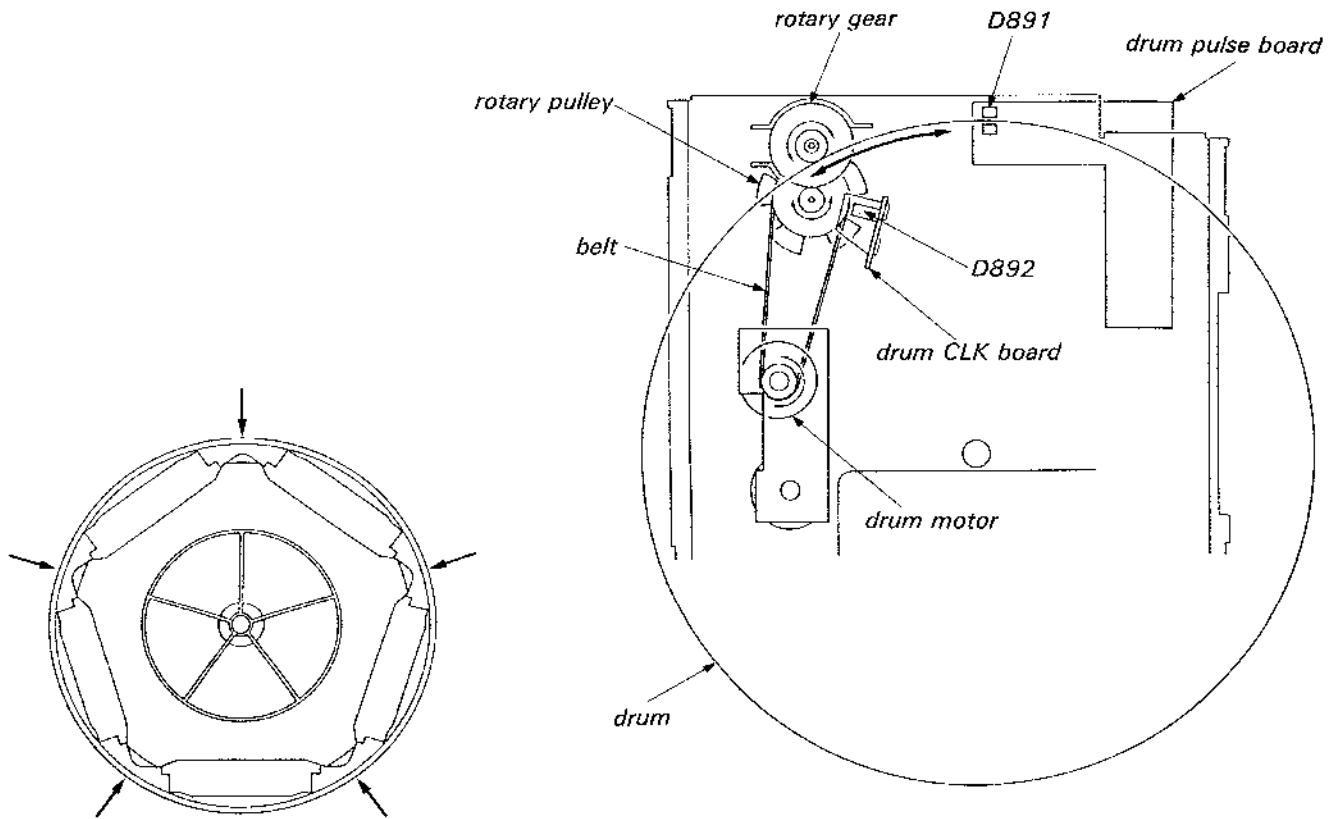


Fig. 2

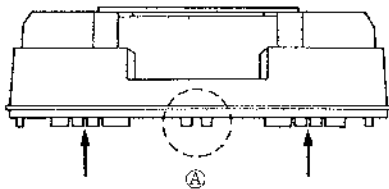
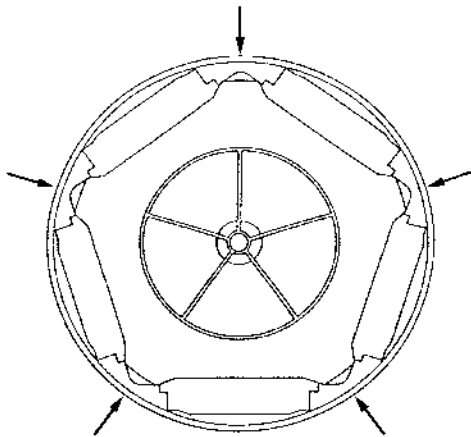


Fig. 3

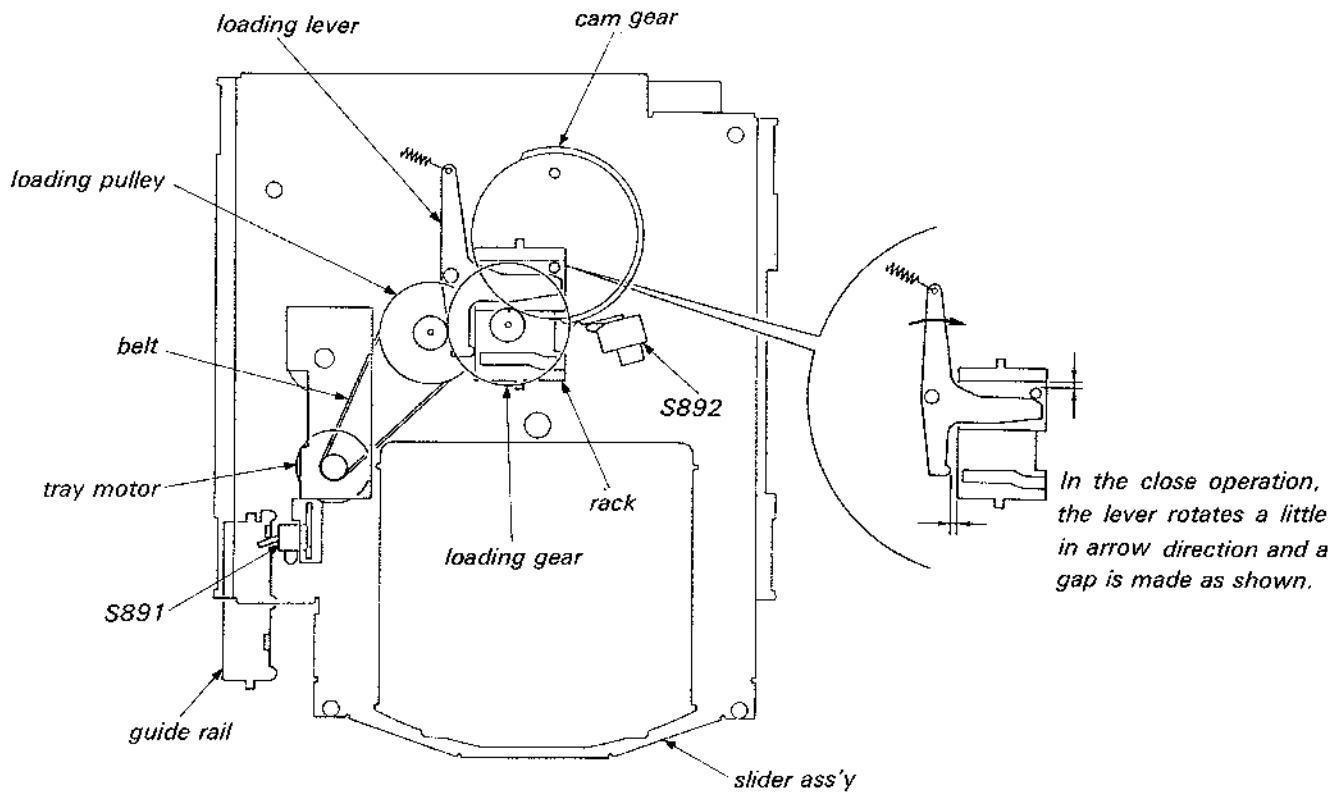


Fig. 4

### 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)

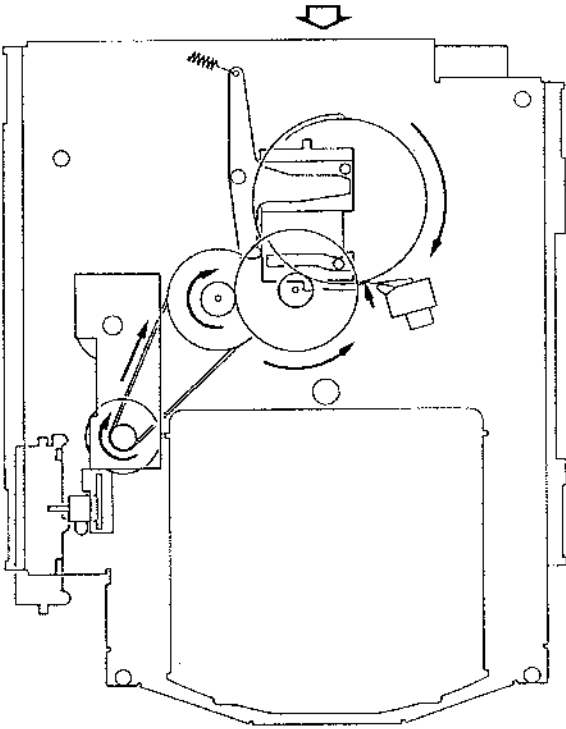


Fig. 5

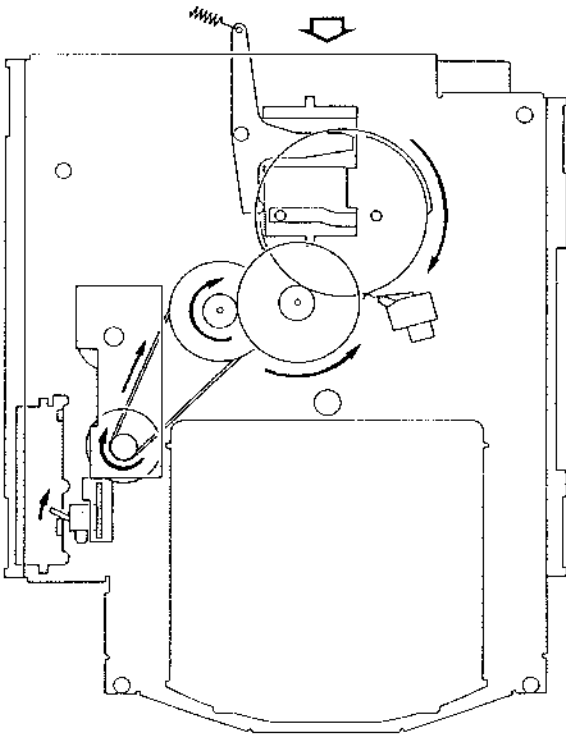


Fig. 6

# SECTION 4 ADJUSTMENTS

## 4-1. MECHANICAL ADJUSTMENTS

### PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
  - record/playback /erase head pinch roller
  - 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.
5. 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 tention	CQ-102C	1 - 5g·cm (0.014 - 0.063oz·inch)
REV	CQ-102RC	30 - 60g·cm (0.42 - 0.83oz·inch)
REV Back tention	CQ-102RC	1 - 5g·cm (0.014 - 0.063oz·inch)
FF, REW	CQ-201B	65 - 100g·cm (0.9 - 1.39oz·inch)

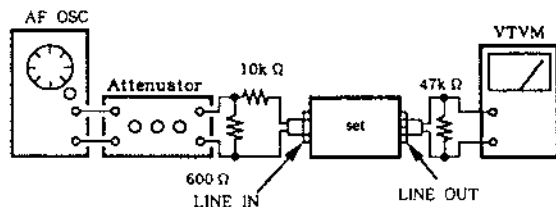
## 4-2. ELECTRICAL ADJUSTMENTS

**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 :  $\Rightarrow$
  - 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 $\Omega$
input level	0.25V (-10dB)

### Standard Output Level

output terminal	LINE OUT
load impedance	47k $\Omega$
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

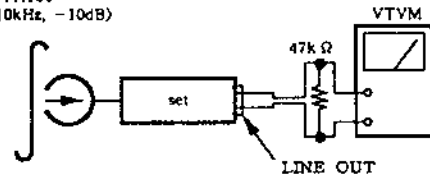
When starting recording, tape counter is reset to zero and counter memory turned on.

### Record/Playback/Erase Head Azimuth Adjustment

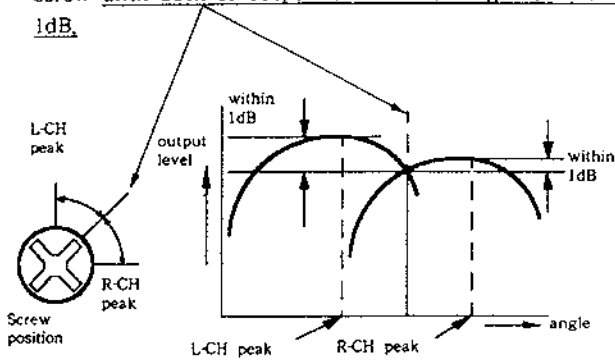
#### Procedure :

1. Mode : FWD playback

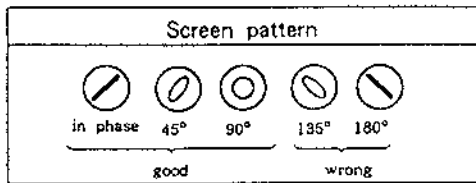
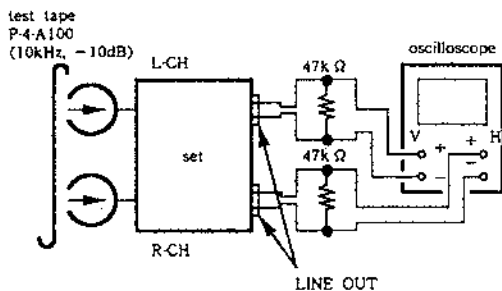
Test tape  
P-4-A100  
(10kHz, -10dB)



- 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.

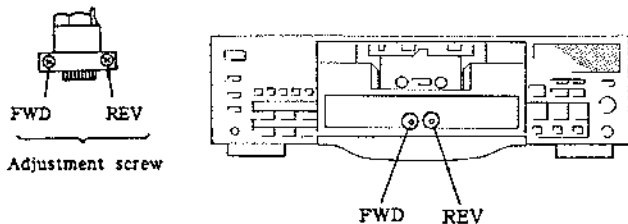


- Phase Check  
Mode : playback



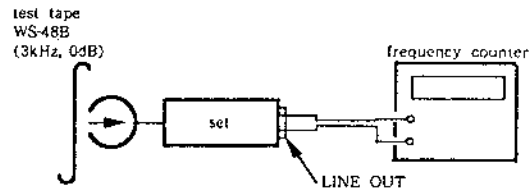
- Set in the REV mode and repeat the step 1-3.
- After the adjustment, lock the screws with locking compound.

Adjustment Location : Record/Playback /Erase head



## Tape Speed Adjustment

Procedure :  
Mode : playback



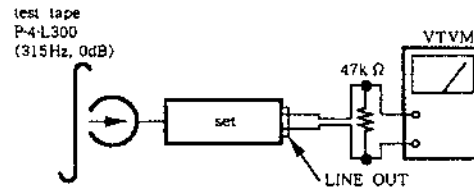
- Set to FWD playback mode.
- Adjust RV881 on SYSTEM CONTROL board so that the frequency counter reading becomes  $3,000 \pm 15\text{Hz}$ .

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

Procedure :  
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)

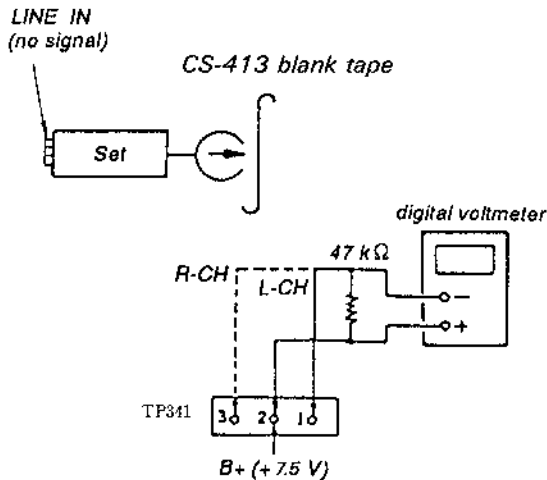
Level difference between channels : less than 0.5dB

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.

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

Adjustment Location : AUDIO board (See page 18.)

## Record Bias Adjustment

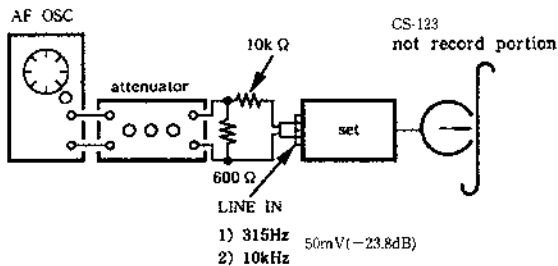
### Setting :

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

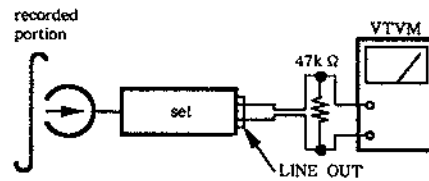
TP801(TEST)pins 2 and 3 : short

### 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

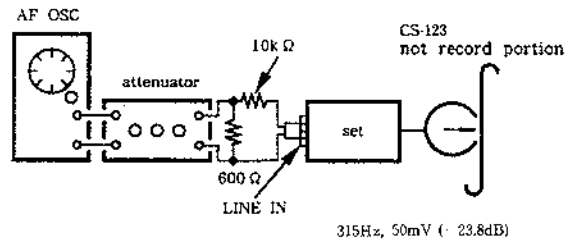
### Setting :

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

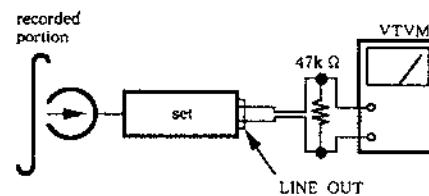
TP801(TEST)pins 2 and 3 : short

### 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 47.3mV)

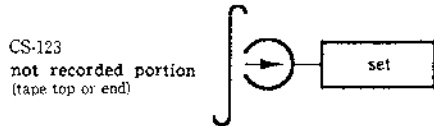
Adjustment Location : AUDIO board (See page 18.)

## Quick Reverse Sensitivity Adjustment

### Conditions :

DIRECTION MODE switch : 

### Adjustment procedure :

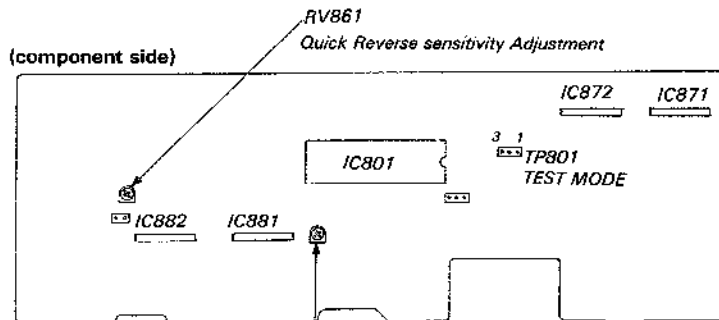


1. Connect the digital voltmeter to test point TP861.
2. Load CS-123 tape cassette and playback the leading portion in FWD mode.
3. Adjust the RV861 for  $4.5 \pm 0.5V$  reading on the digital voltmeter.
4. Playback CS-123 tape cassette in FWD mode again.
5. Confirm that the reading on the digital voltmeter 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).

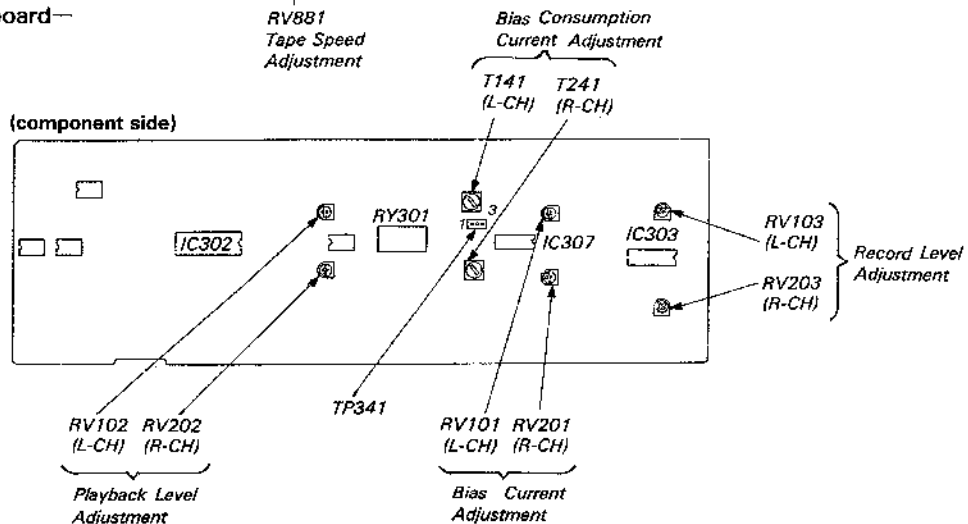
Adjustment Location : SYSTEM CONTROL board

## Adjustment Parts Location Diagram

—SYSTEM CONTROL board—



—AUDIO board—

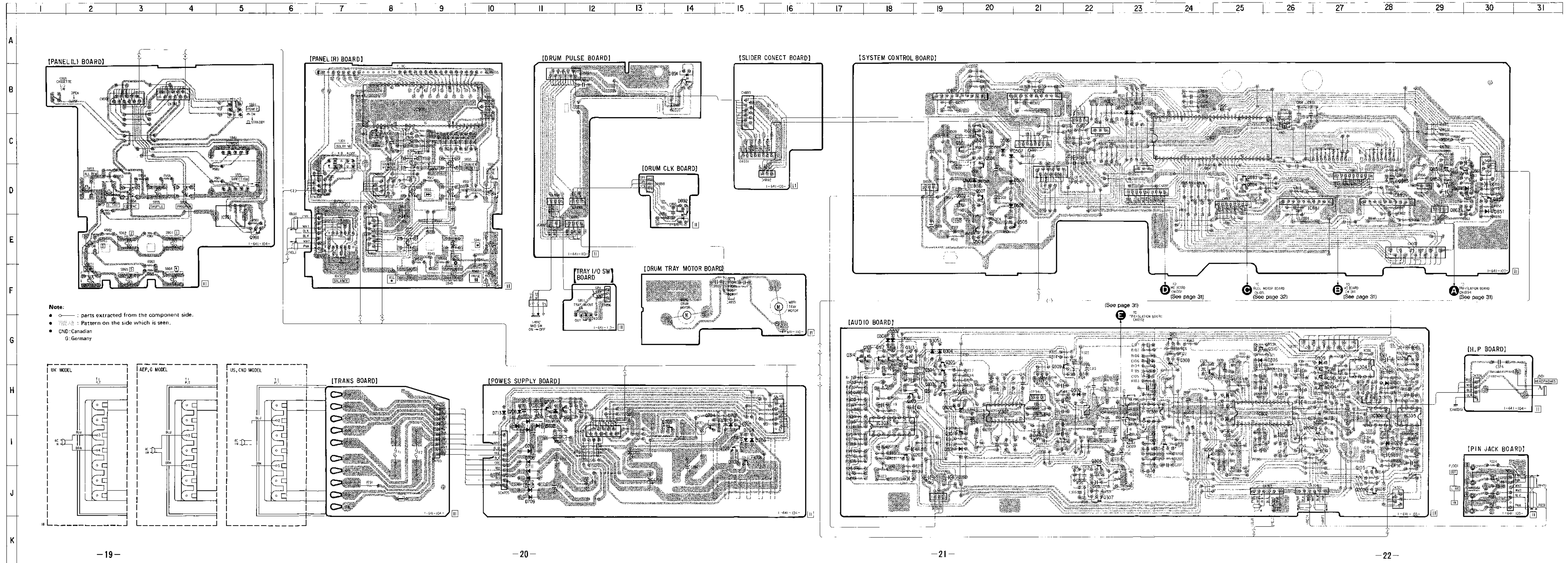




**SECTION 5  
DIAGRAMS**

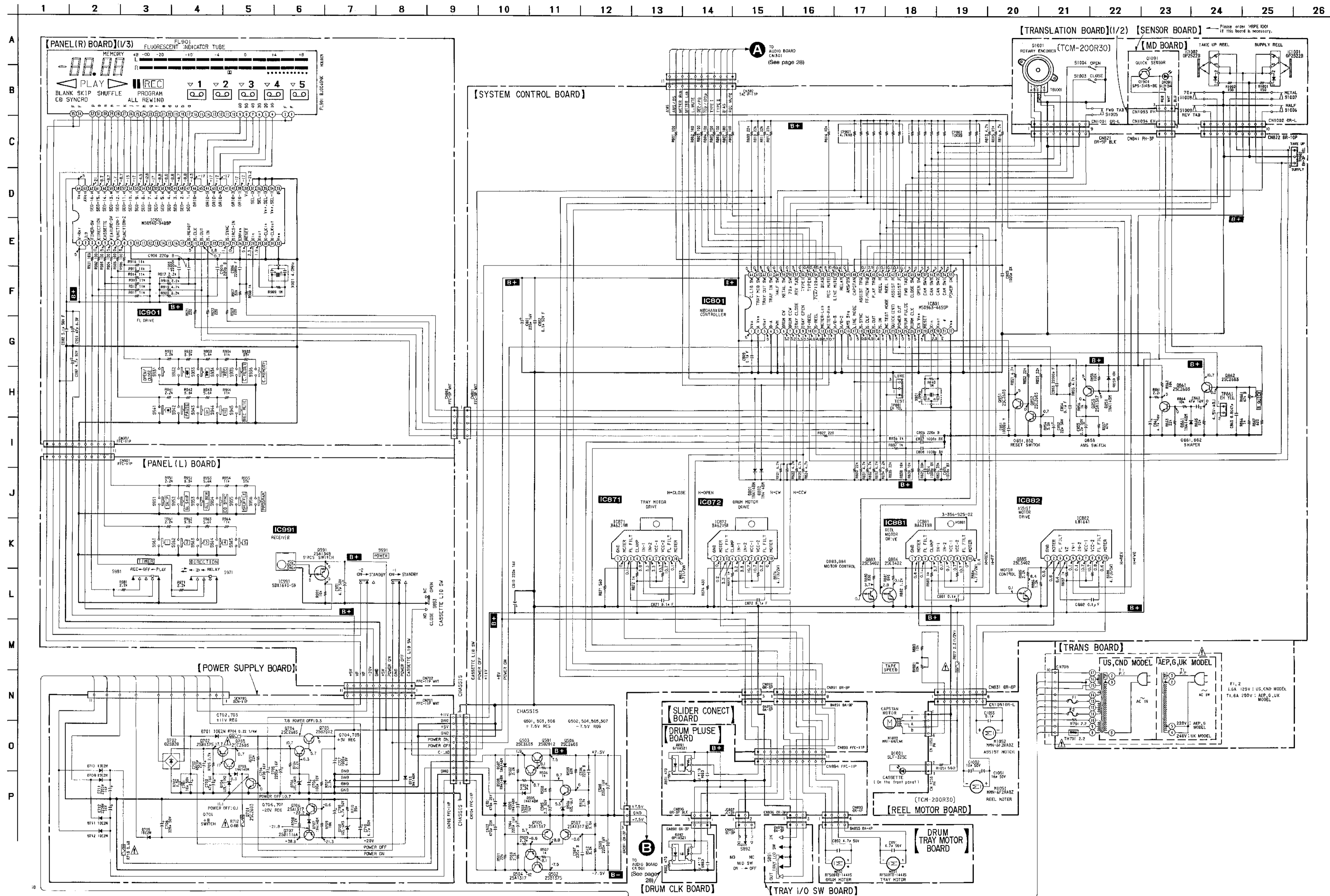
**5-1. PRINTED WIRING BOARDS —Audio/System Control—**

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



**Note:**  
 ● : parts extracted from the component side.  
 ■ : Pattern on the side which is seen.  
 ● : CND: Canadian  
 G : Germany

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
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-28
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	Q101	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
		Q886	D-28
		Q991	E-5

**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{2}\text{W}$  or less unless otherwise specified.
- % : indicates tolerance.
- $\Delta$  : internal component.
- $\square$  : fusible resistor.

**Note:**

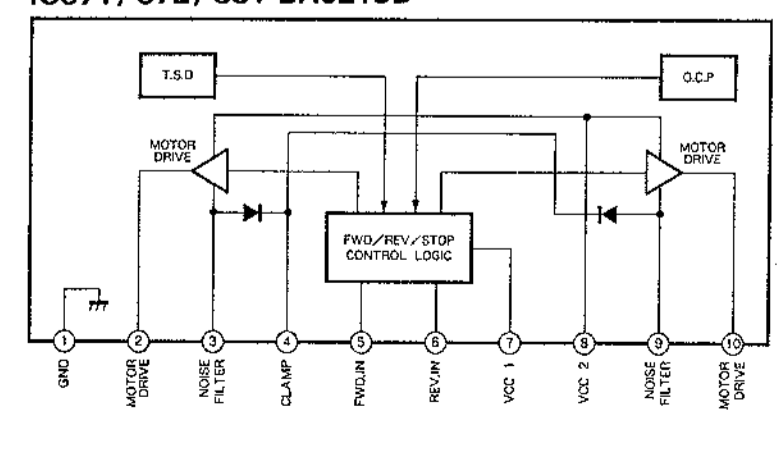
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:**

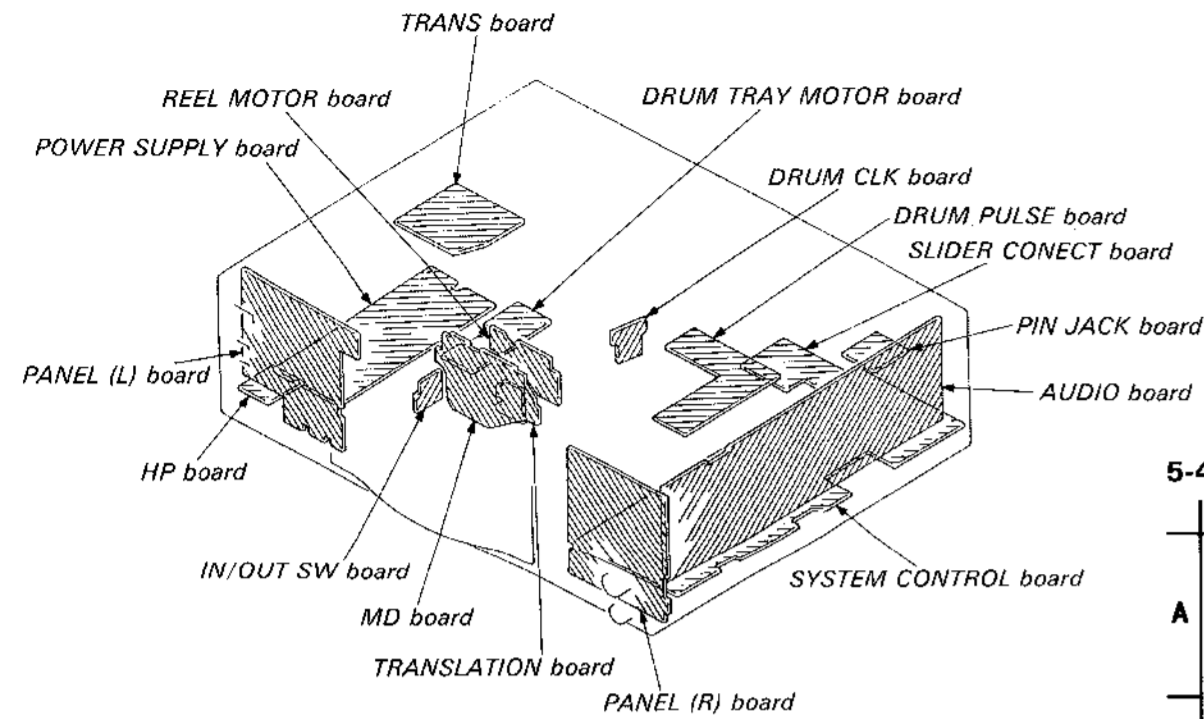
Les composants identifiés par une marque  $\Delta$  ou une ligne pointillée avec une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

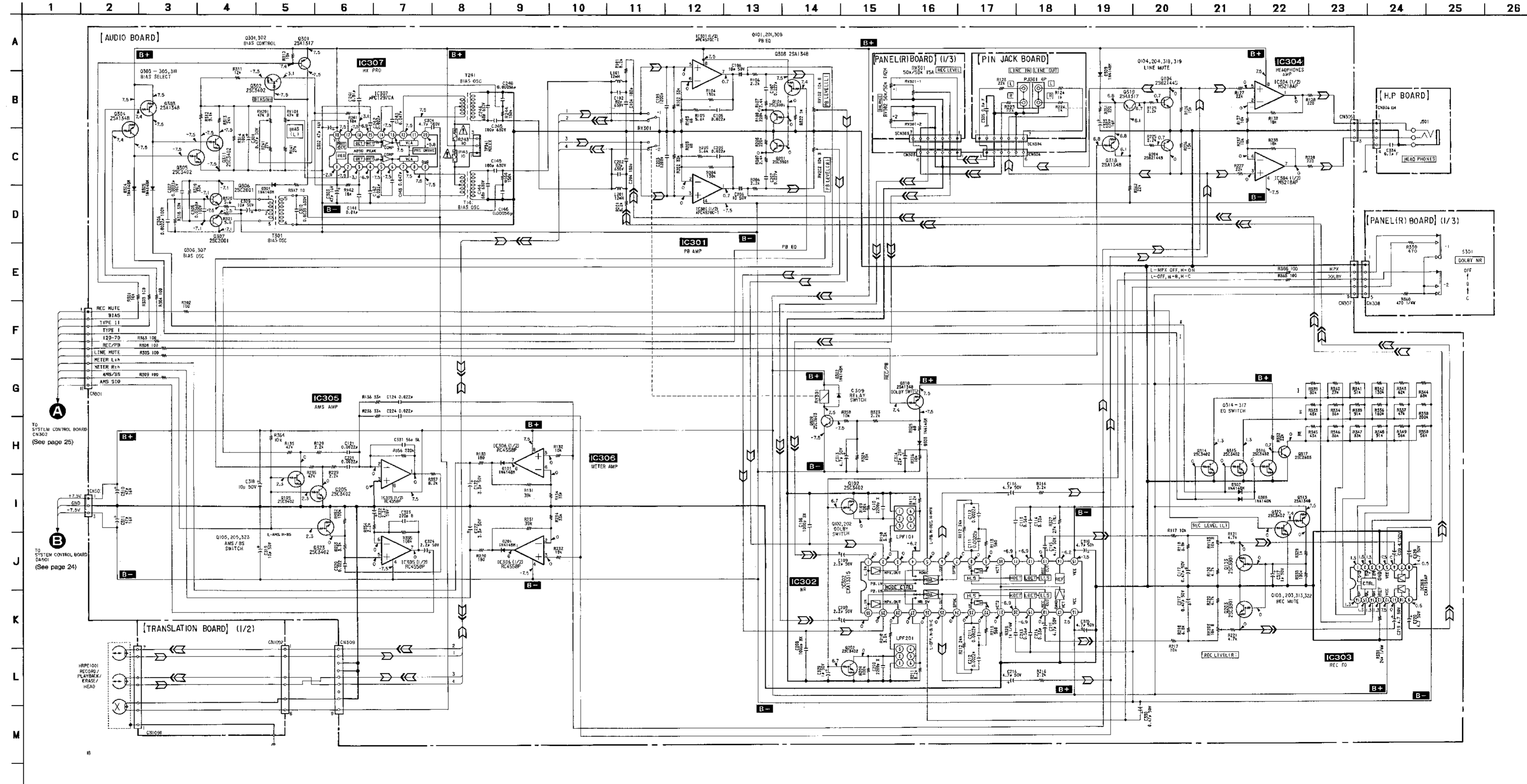
● IC Block Diagram  
IC882 LB1641  
IC871, 872, 881 BA6219B



5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAM — Audio Section —

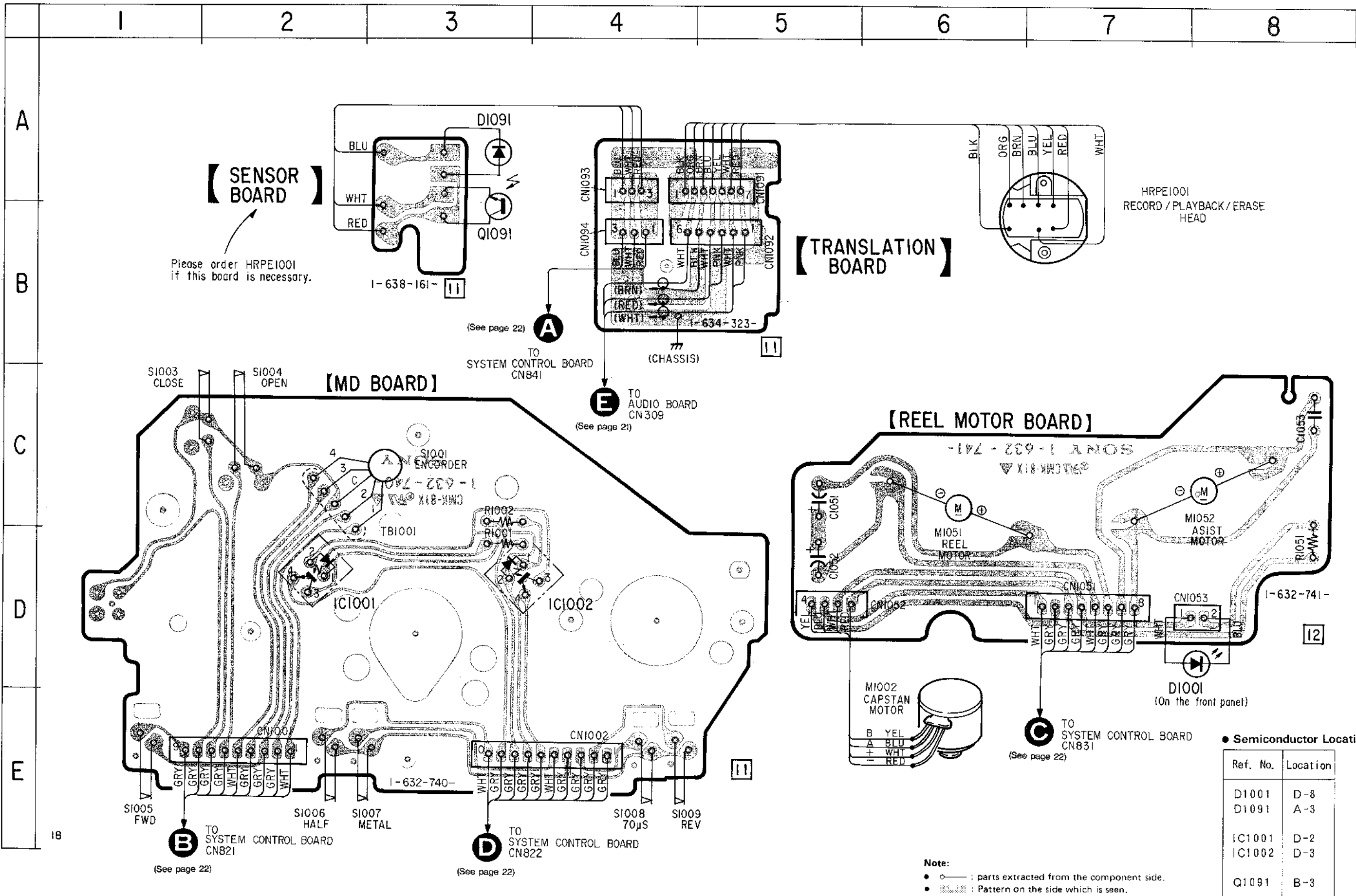


Note:  
 • All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.  
 • All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.  
 • % : indicates tolerance.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

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

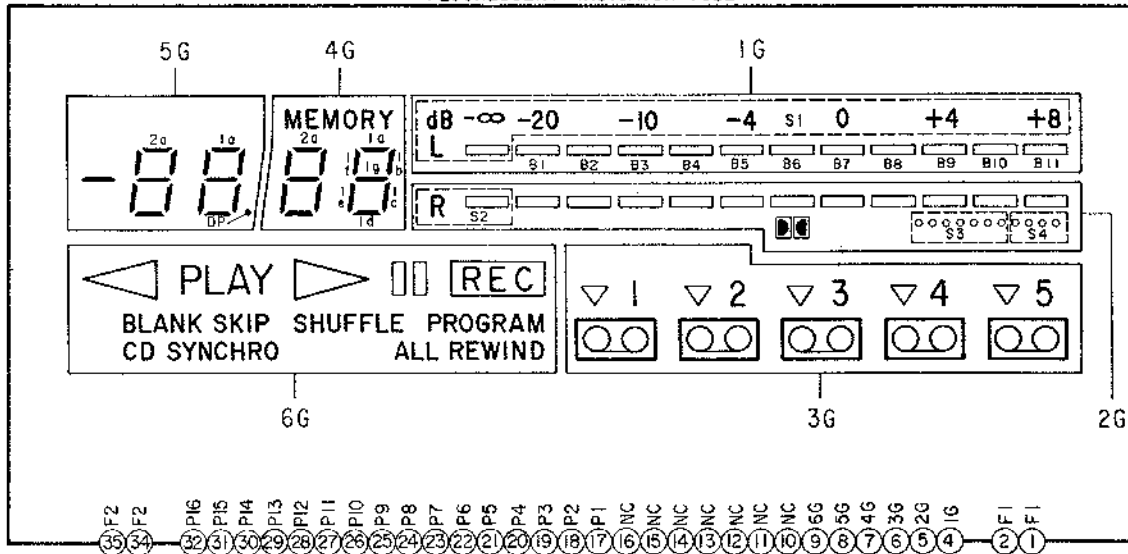
Note:  
 Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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



• Fluorescent Indicator Tube

FL 901  
FLUORESCENT INDICATOR TUBE

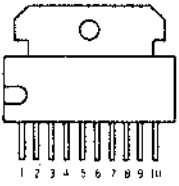


ANODE CONNECTION

	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

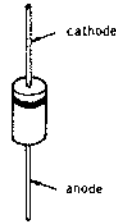


Making side view

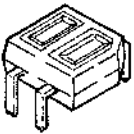
2SA473  
2SD2012



UZL-11H2  
1SS120  
10E2N



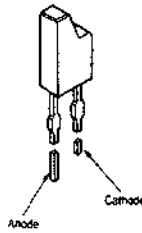
GP2S22B



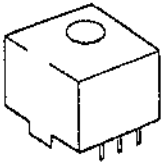
2SB1116A-L  
2SC2001-M



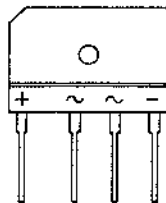
SLR314D



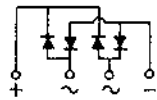
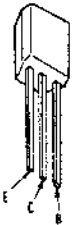
SBX1610-59



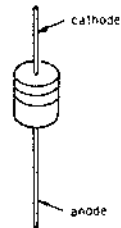
D2SB20



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



HZS6A1L  
HZS6B3L  
HZS6C3L






# SECTION 6 EXPLODED VIEWS

**NOTE:**

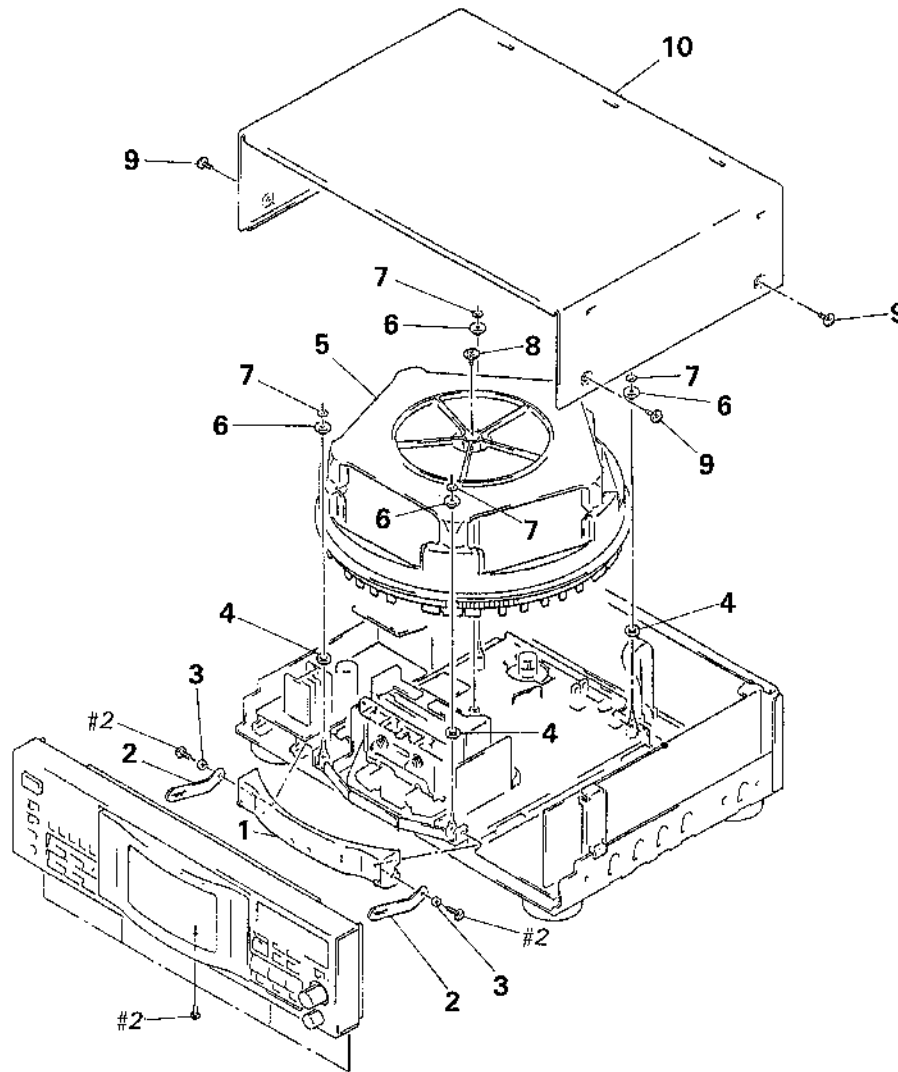
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE(WHITE)...(RED)  
                  ↓                  ↑  
          Parts color  Cabinet's color

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.
- G : Germany

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.

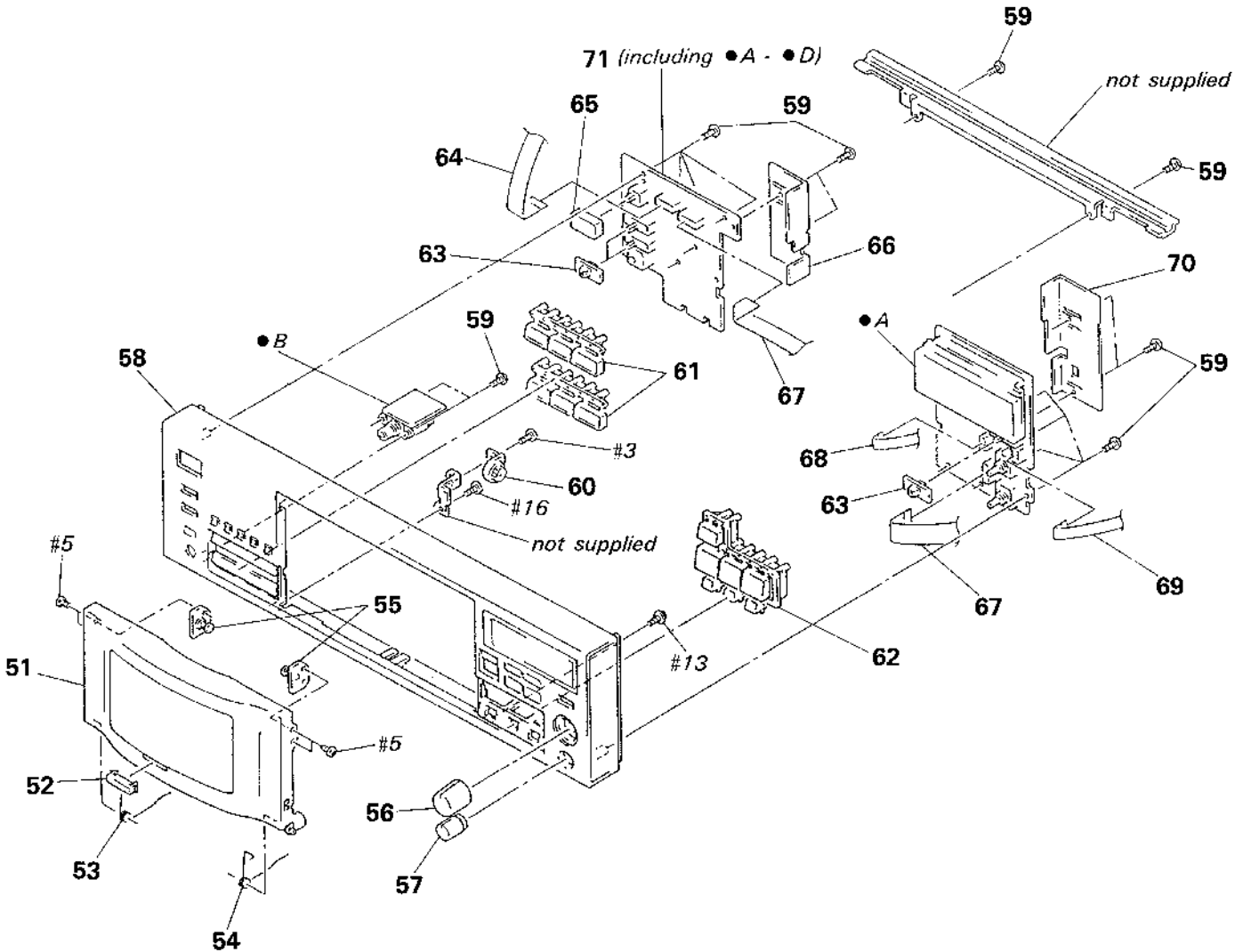
## 6-1. DRUM SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-372-439-01	COVER		6	3-372-529-01	ROLLER (DRUM)	
2	* 3-372-729-01	LEVER (HINGE)		7	3-558-708-21	WASHER, STOPPER	
3	3-372-773-01	COLLAR		8	3-372-528-01	SCREW (M3X6), SPECIAL	
4	3-372-530-01	ROLLER (DRUM B)		9	3-704-366-01	SCREW (CASE) (M3X8)	
5	* 3-372-532-01	DRUM		10	4-925-039-61	CASE	

6-2. FRONT PANEL SECTION

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



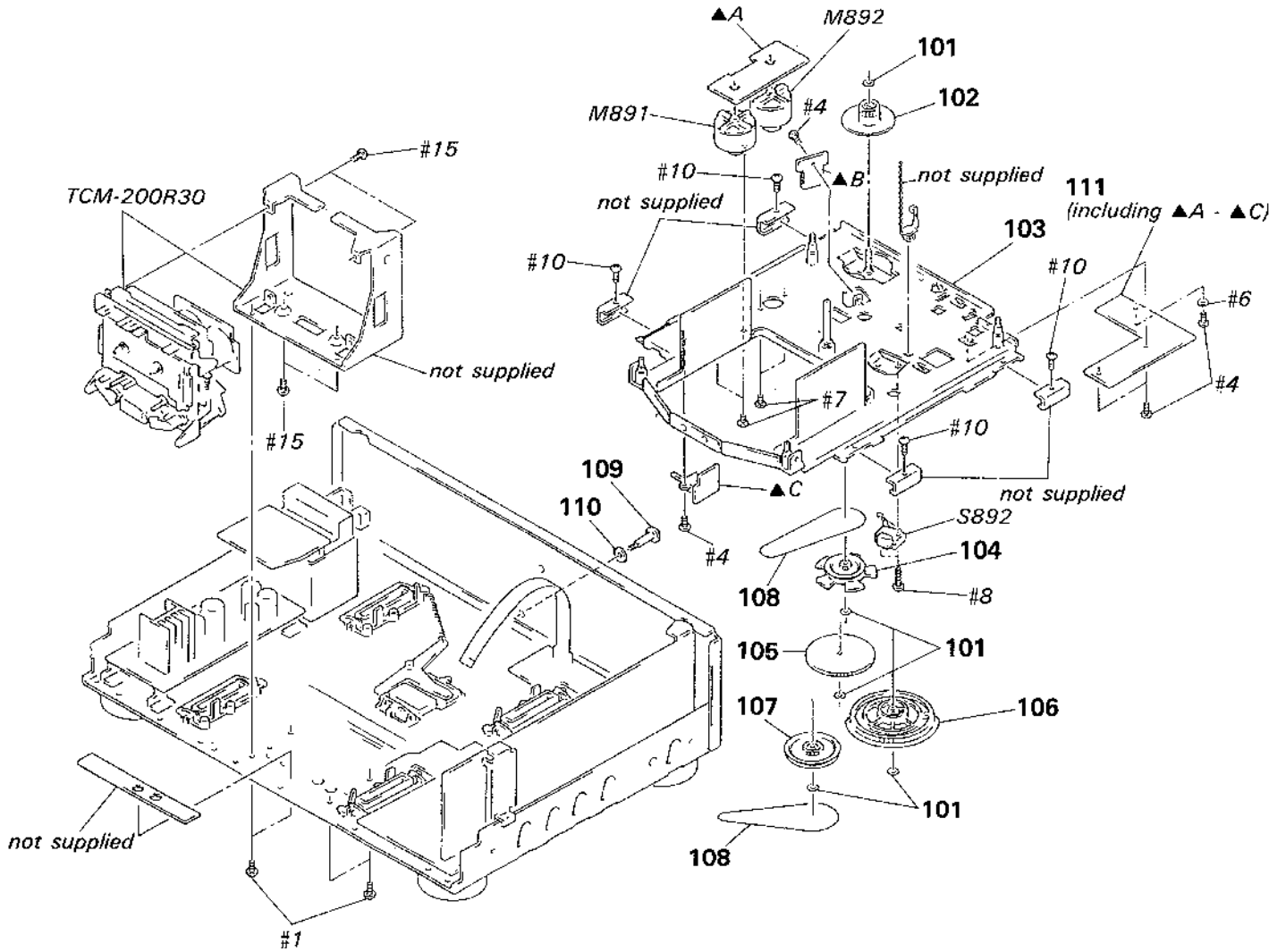
Ref. No.	Part No.	Description	Remark
51	X-3363-664-1	LID ASSY, CASSETTE	
52	3-372-474-01	PLATE (A), ORNAMENTAL	
53	3-372-472-01	SPRING (L), TORSION	
54	3-372-473-01	SPRING (R), TORSION	
55	* X-3363-691-1	BRACKET (HINGE) ASSY	
56	4-927-863-01	KNOB (R18)	
57	3-349-039-11	KNOB (VOL)	
58	X-3363-663-1	PANEL 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)	
	1-536-575-11		
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

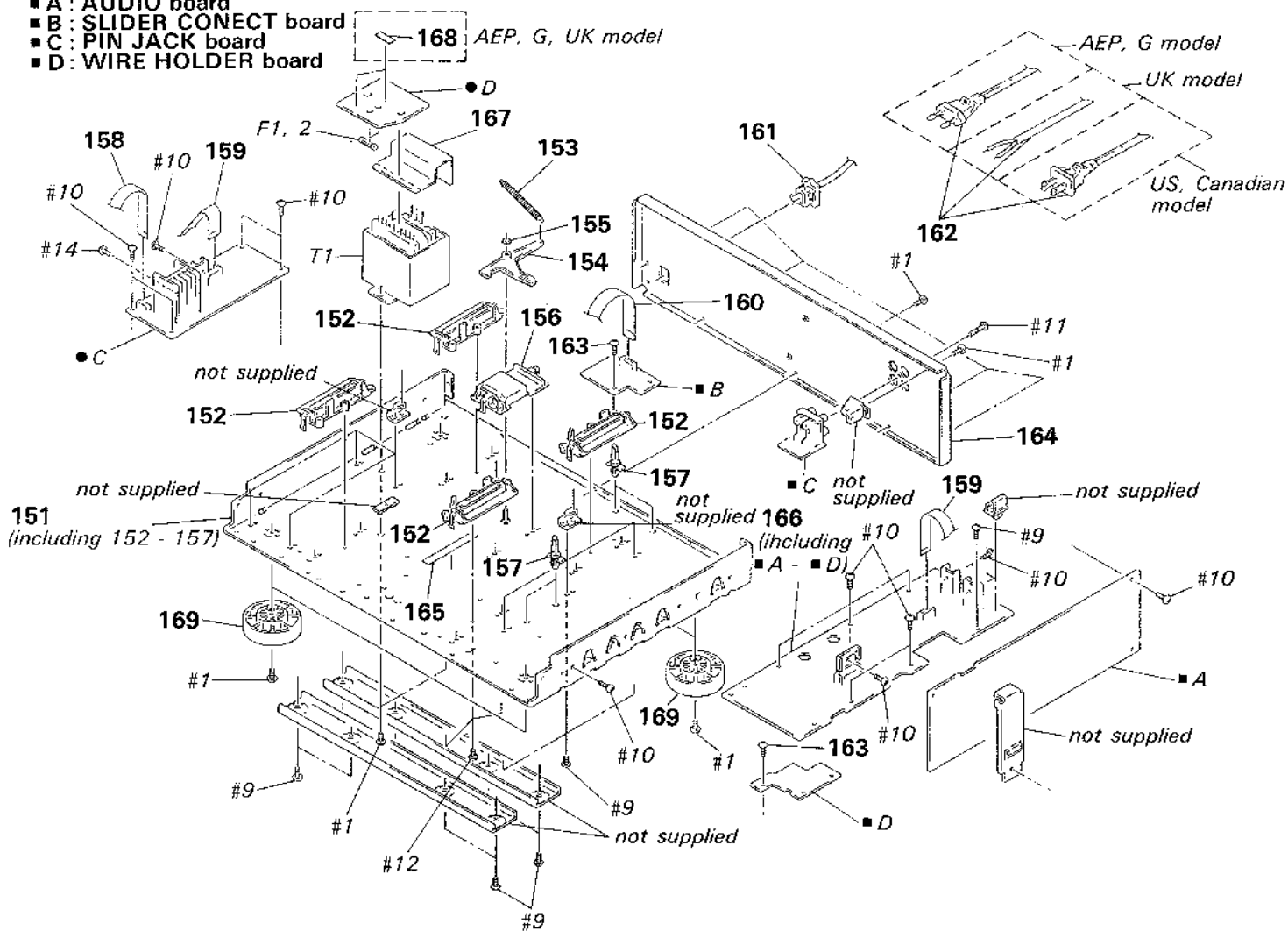


Ref. No.	Part No.	Description	Remark
101	3-558-708-21	WASHER, STOPPER	
102	3-372-519-01	GEAR (ROTARY)	
103	* X-3363-668-1	SLIDER ASSY	
104	3-372-518-01	PULLEY (ROTARY)	
105	3-372-517-01	GEAR (LOADING)	
106	3-372-515-01	GEAR (CAM GEAR)	
107	3-372-516-01	PULLEY (LOADING)	

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

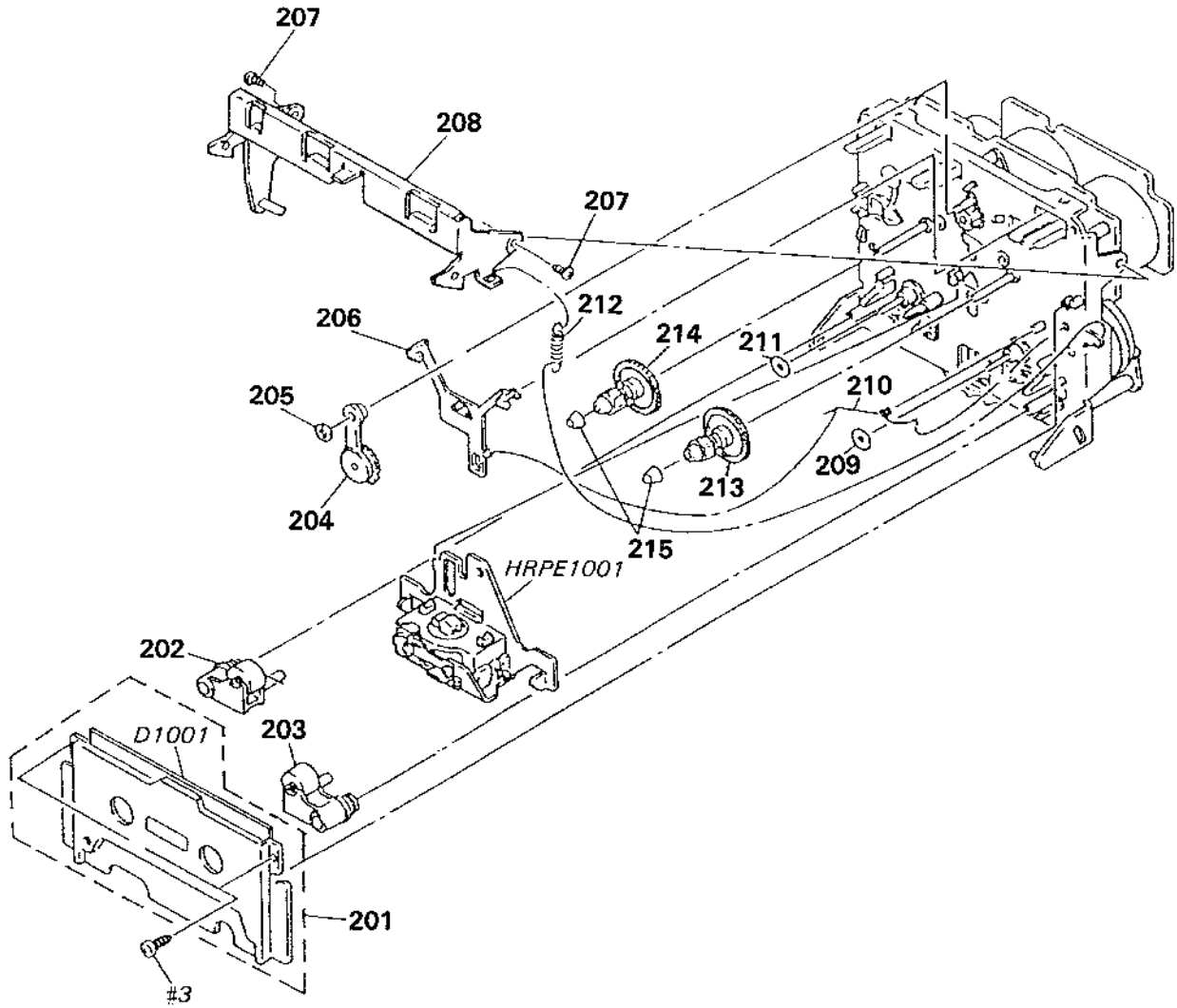


Ref. No.	Part No.	Description	Remark
151	* X-3363-671-1	CHASSIS ASSY	
152	3-372-521-01	RAIL, GUIDE	
153	3-372-525-01	SPRING, TENSION	
154	3-372-523-01	LEVER (LOADING)	
155	3-558-703-21	WASHER, STOPPER	
156	3-372-522-01	RACK	
157	* 4-924-096-21	HOLDER, PC BOARD	
158	1-534-517-00	WIRE, FLAT TYPE (11 CORE)	
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, EURO 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 (0)	
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)	

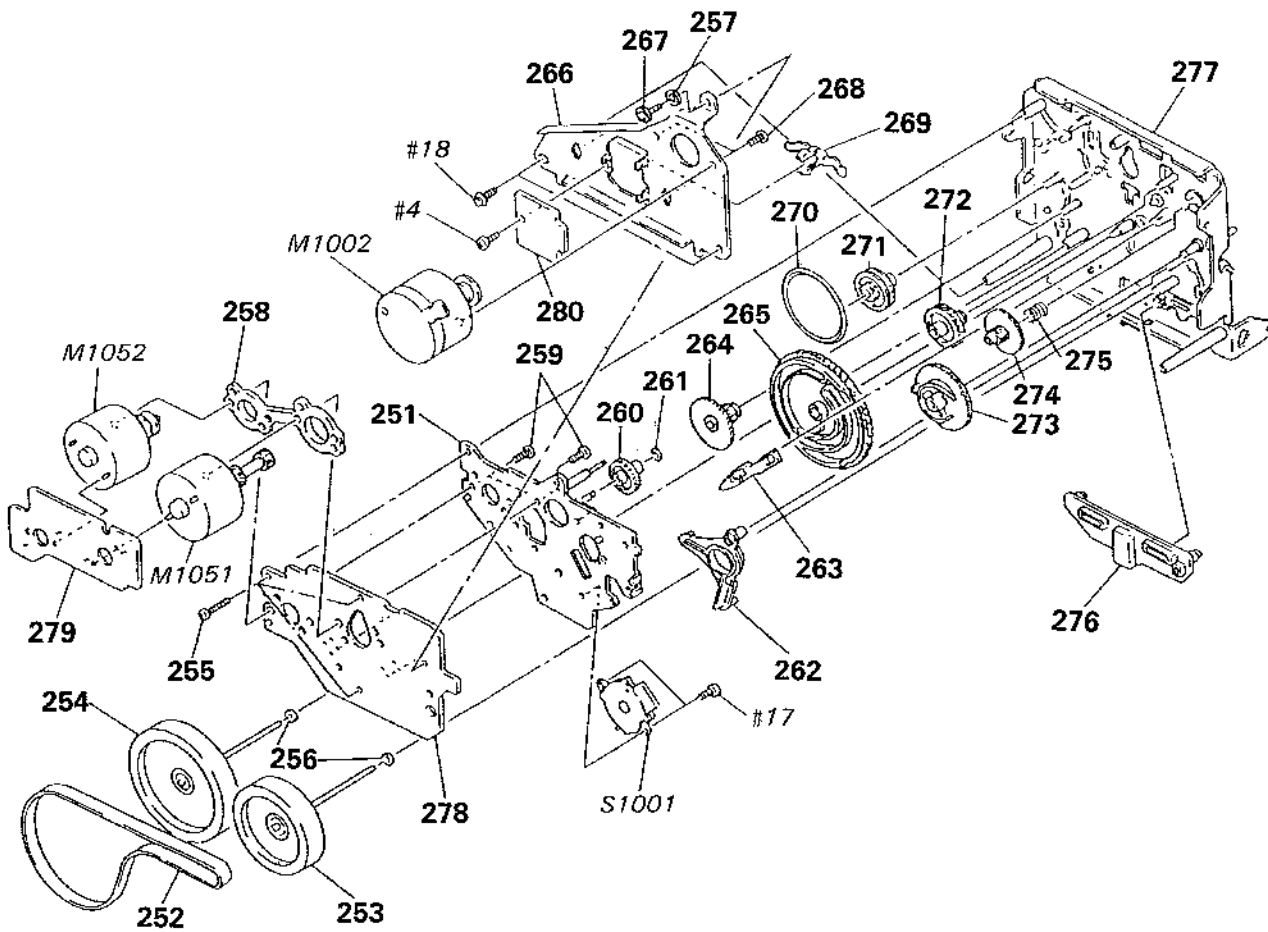
<p>The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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6-5. 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 (+PTPWH 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;  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...:  $\mu$ PA...,  
uPB...:  $\mu$ PB..., uPC...:  $\mu$ PC...,  
uPD...:  $\mu$ PD...
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ 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
				C202	1-136-274-11	FILM 82PF	5% 630V
				C203	1-164-736-31	CERAMIC 0.0012uF	10% 50V
				C204	1-162-285-31	CERAMIC 180PF	10% 50V
* 3-309-144-21 HEAT SINK * 3-346-266-12 PLATE, GROUND * 3-356-925-01 HEAT SINK 7-682-547-04 SCREW +BVTT 3X6 (S)				C205	1-136-157-00	FILM 0.022uF	5% 50V
				C206	1-124-657-00	ELECT 10uF	20% 50V
				C207	1-136-158-00	FILM 0.027uF	5% 50V
				C208	1-162-294-31	CERAMIC 0.001uF	10% 50V
				C209	1-124-925-11	ELECT 2.2uF	20% 100V
< CAPACITOR >				C210	1-161-375-00	CERAMIC 0.0022uF	20% 50V
C102	1-136-274-11	FILM 82PF	5% 630V	C211	1-130-475-00	MYLAR 0.0022uF	5% 50V
C103	1-164-736-31	CERAMIC 0.0012uF	10% 50V	C212	1-130-475-00	MYLAR 0.0022uF	5% 50V
C104	1-162-285-31	CERAMIC 180PF	10% 50V	C213	1-136-174-00	FILM 0.56uF	5% 50V
C105	1-136-157-00	FILM 0.022uF	5% 50V	C214	1-136-171-00	FILM 0.33uF	5% 50V
C106	1-124-657-00	ELECT 10uF	20% 50V	C215	1-124-927-11	ELECT 4.7uF	20% 100V
C107	1-136-158-00	FILM 0.027uF	5% 50V	C216	1-124-927-11	ELECT 4.7uF	20% 100V
C108	1-162-294-31	CERAMIC 0.001uF	10% 50V	C217	1-124-302-00	ELECT 0.47uF	20% 50V
C109	1-124-925-11	ELECT 2.2uF	20% 100V	C219	1-124-927-11	ELECT 4.7uF	20% 100V
C110	1-161-375-00	CERAMIC 0.0022uF	20% 50V	C220	1-124-927-11	ELECT 4.7uF	20% 100V
C111	1-130-475-00	MYLAR 0.0022uF	5% 50V	C221	1-130-475-00	MYLAR 0.0022uF	5% 50V
C112	1-130-475-00	MYLAR 0.0022uF	5% 50V	C222	1-123-382-00	ELECT 3.3uF	20% 100V
C113	1-136-174-00	FILM 0.56uF	5% 50V	C224	1-136-157-00	FILM 0.022uF	5% 50V
C114	1-136-171-00	FILM 0.33uF	5% 50V	C241	1-136-153-00	FILM 0.1uF	5% 50V
C115	1-124-927-11	ELECT 4.7uF	20% 100V	C242	1-136-157-00	FILM 0.022uF	5% 50V
C116	1-124-927-11	ELECT 4.7uF	20% 100V	C243	1-136-161-00	FILM 0.047uF	5% 50V
C117	1-124-902-00	ELECT 0.47uF	20% 50V	C244	1-136-272-00	FILM 68PF	5% 630V
C119	1-124-927-11	ELECT 4.7uF	20% 100V	C245	1-136-433-11	FILM 100PF	5% 630V
C120	1-124-927-11	ELECT 4.7uF	20% 100V	C246	1-130-468-00	MYLAR 560PF	5% 50V
C121	1-130-475-00	MYLAR 0.0022uF	5% 50V	C301	1-124-902-00	ELECT 0.47uF	20% 50V
C122	1-123-382-00	ELECT 3.3uF	20% 100V	C302	1-124-477-11	ELECT 47uF	20% 25V
C124	1-136-157-00	FILM 0.022uF	5% 50V	C303	1-124-477-11	ELECT 47uF	20% 25V
C141	1-136-153-00	FILM 0.01uF	5% 50V	C304	1-107-046-00	MICA 4.7PF	500V
C142	1-136-157-00	FILM 0.022uF	5% 50V	C305	1-164-159-11	CERAMIC 0.1uF	50V
C143	1-136-161-00	FILM 0.047uF	5% 50V	C306	1-136-230-00	FILM 0.0022uF	5% 100V
C144	1-136-272-00	FILM 68PF	5% 630V				

## AUDIO SYSCON

Ref. No.	Part No.	Description			Remark
C307	1-136-230-00	FILM	0.0022uF	5%	100V
C308	1-130-858-00	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
C853	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	HZ56A1L	
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	Ref. No.	Part No.	Description	Remark
		< IC >					
IC301	8-759-111-44	IC uPC4570C-1		Q313	8-729-900-61	TRANSISTOR DTA114ES	
IC302	8-752-035-94	IC CXA1331S		Q314	8-729-900-80	TRANSISTOR DTC114ES	
IC303	8-752-038-02	IC CXA1198AP		Q315	8-729-900-80	TRANSISTOR DTC114ES	
IC304	8-759-634-51	IC M5218AP		Q316	8-729-900-80	TRANSISTOR DTC114ES	
IC305	8-759-945-58	IC RC4558P		Q317	8-729-620-05	TRANSISTOR 2SC2603-EF	
				Q318	8-729-900-61	TRANSISTOR DTA114ES	
IC306	8-759-945-58	IC RC4558P		Q319	8-729-821-04	TRANSISTOR 2SA1317-STU	
IC307	8-759-106-56	IC uPC1297CA		Q322	8-729-900-80	TRANSISTOR DTC114ES	
IC801	8-759-637-35	IC M50963-455SP		Q323	8-729-900-80	TRANSISTOR DTC114ES	
IC871	8-759-973-95	IC BA6219B		Q501	8-729-209-15	TRANSISTOR 2SD2012	
IC872	8-759-973-95	IC BA6219B		Q502	8-729-111-67	TRANSISTOR 2SA473	
				Q503	8-729-620-05	TRANSISTOR 2SC2603-EF	
IC881	8-759-973-95	IC BA6219B		Q504	8-729-821-04	TRANSISTOR 2SA1317-STU	
IC882	8-759-822-09	IC LB1641		Q505	8-729-821-04	TRANSISTOR 2SA1317-STU	
		< COIL >		Q506	8-729-620-05	TRANSISTOR 2SC2603-EF	
L101	1-410-776-11	INDUCTOR 12mH		Q507	8-729-821-04	TRANSISTOR 2SA1317-STU	
L201	1-410-776-11	INDUCTOR 12mH		Q851	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< LOW PASS FILTER >		Q852	8-729-620-05	TRANSISTOR 2SC2603-EF	
LPF101	1-236-147-11	FILTER, LOW PASS		Q853	8-729-821-04	TRANSISTOR 2SA1317-STU	
LPF201	1-236-147-11	FILTER, LOW PASS		Q861	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< JACK >		Q862	8-729-620-05	TRANSISTOR 2SC2603-EF	
PJ301	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)		Q883	8-729-900-80	TRANSISTOR DTC114ES	
		< TRANSISTOR >		Q884	8-729-900-80	TRANSISTOR DTC114ES	
Q101	8-729-900-74	TRANSISTOR DTC143TS		Q885	8-729-900-80	TRANSISTOR DTC114ES	
Q102	8-729-900-80	TRANSISTOR DTC114ES				< RESISTOR >	
Q103	8-729-900-74	TRANSISTOR DTC143TS		R101	1-249-428-11	CARBON 8.2K 5% 1/4W	
Q104	8-729-922-37	TRANSISTOR 2SD2144S		R102	1-249-435-11	CARBON 33K 5% 1/4W	
Q105	8-729-900-80	TRANSISTOR DTC114ES		R103	1-249-403-11	CARBON 68 5% 1/4W	
Q201	8-729-900-74	TRANSISTOR DTC143TS		R104	1-247-882-11	CARBON 130K 5% 1/4W	
Q202	8-729-900-80	TRANSISTOR DTC114ES		R105	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q203	8-729-900-74	TRANSISTOR DTC143TS		R106	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q204	8-729-922-37	TRANSISTOR 2SD2144S		R107	1-247-840-00	CARBON 2.4K 5% 1/4W	
Q205	8-729-900-80	TRANSISTOR DTC114ES		R108	1-247-887-00	CARBON 220K 5% 1/4W	
Q301	8-729-821-04	TRANSISTOR 2SA1317-STU		R109	1-249-441-11	CARBON 100K 5% 1/4W	
Q302	8-729-900-80	TRANSISTOR DTC114ES		R110	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q303	8-729-900-61	TRANSISTOR DTA114ES		R111	1-249-428-11	CARBON 8.2K 5% 1/4W	
Q304	8-729-900-61	TRANSISTOR DTA114ES		R112	1-247-864-11	CARBON 24K 5% 1/4W	
Q305	8-729-900-80	TRANSISTOR DTC114ES		R113	1-249-414-11	CARBON 560 5% 1/4W	
Q306	8-729-142-46	TRANSISTOR 2SC2001-M		R116	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q307	8-729-142-46	TRANSISTOR 2SC2001-M		R117	1-249-429-11	CARBON 10K 5% 1/4W	
Q308	8-729-900-61	TRANSISTOR DTA114ES		R118	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q309	8-729-620-05	TRANSISTOR 2SC2603-EF		R120	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q310	8-729-900-61	TRANSISTOR DTA114ES		R121	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q311	8-729-900-80	TRANSISTOR DTC114ES		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			Ref. No.	Part No.	Description	Remark		
R128	1-249-409-11	CARBON	220	5%	1/4W	R242	1-249-432-11	CARBON	18K	5%	1/4W
R129	1-249-421-11	CARBON	2.2K	5%	1/4W	R243	△ 1-212-857-00	FUSIBLE	10	5%	1/4W F
R130	1-249-408-11	CARBON	180	5%	1/4W	R244	1-247-883-00	CARBON	150X	5%	1/4W
R131	1-249-436-11	CARBON	39K	5%	1/4W	R301	1-249-429-11	CARBON	10K	5%	1/4W
R132	1-249-429-11	CARBON	10K	5%	1/4W	R302	1-249-405-11	CARBON	100	5%	1/4W
R134	1-249-435-11	CARBON	33K	5%	1/4W	R303	1-249-405-11	CARBON	100	5%	1/4W
R135	1-249-437-11	CARBON	47K	5%	1/4W	R304	1-249-405-11	CARBON	100	5%	1/4W
R136	1-249-435-11	CARBON	33K	5%	1/4W	R305	1-249-405-11	CARBON	100	5%	1/4W
R137	1-249-429-11	CARBON	10K	5%	1/4W	R308	1-249-405-11	CARBON	100	5%	1/4W
R138	1-249-432-11	CARBON	18K	5%	1/4W	R309	1-249-405-11	CARBON	100	5%	1/4W
R141	1-249-434-11	CARBON	27K	5%	1/4W	R310	1-249-429-11	CARBON	10K	5%	1/4W
R142	1-249-432-11	CARBON	18K	5%	1/4W	R311	1-249-430-11	CARBON	12K	5%	1/4W
R143	△ 1-212-857-00	FUSIBLE	10	5%	1/4W F	R312	1-247-854-11	CARBON	9.1K	5%	1/4W
R144	1-247-883-00	CARBON	150K	5%	1/4W	R313	1-247-864-11	CARBON	24K	5%	1/4W
R201	1-249-428-11	CARBON	8.2K	5%	1/4W	R314	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-435-11	CARBON	33K	5%	1/4W	R317	1-249-393-11	CARBON	10	5%	1/4W
R203	1-249-403-11	CARBON	68	5%	1/4W	R318	1-249-435-11	CARBON	33K	5%	1/4W
R204	1-247-882-11	CARBON	130K	5%	1/4W	R319	1-249-435-11	CARBON	33K	5%	1/4W
R205	1-249-426-11	CARBON	5.6K	5%	1/4W	R320	1-249-390-11	CARBON	5.6	5%	1/6W
R206	1-249-421-11	CARBON	2.2K	5%	1/4W	R321	1-249-390-11	CARBON	5.6	5%	1/6W
R207	1-247-840-00	CARBON	2.4K	5%	1/4W	R322	1-249-417-11	CARBON	1K	5%	1/4W
R208	1-247-837-00	CARBON	220K	5%	1/4W	R323	1-249-421-11	CARBON	2.2K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W	R324	1-249-431-11	CARBON	15K	5%	1/4W
R210	1-249-423-11	CARBON	3.3K	5%	1/4W	R325	1-249-403-11	CARBON	68	5%	1/4W
R211	1-249-428-11	CARBON	8.2K	5%	1/4W	R326	1-249-429-11	CARBON	10K	5%	1/4W
R212	1-247-854-11	CARBON	24K	5%	1/4W	R327	1-215-455-00	METAL	27K	1%	1/6W
R213	1-249-414-11	CARBON	560	5%	1/4W	R328	1-249-417-11	CARBON	1K	5%	1/4W
R216	1-249-421-11	CARBON	2.2K	5%	1/4W	R329	1-249-417-11	CARBON	1K	5%	1/4W
R217	1-249-429-11	CARBON	10K	5%	1/4W	R330	1-249-441-11	CARBON	100K	5%	1/4W
R218	1-249-427-11	CARBON	5.8K	5%	1/4W	R331	1-247-864-11	CARBON	24K	5%	1/4W
R220	1-249-425-11	CARBON	4.7K	5%	1/4W	R332	1-249-433-11	CARBON	22K	5%	1/4W
R221	1-249-425-11	CARBON	4.7K	5%	1/4W	R333	1-247-870-11	CARBON	43K	5%	1/4W
R223	1-249-433-11	CARBON	22K	5%	1/4W	R334	1-247-868-11	CARBON	38K	5%	1/4W
R224	1-249-417-11	CARBON	1K	5%	1/4W	R335	1-247-878-00	CARBON	91K	5%	1/4W
R225	1-249-421-11	CARBON	2.2K	5%	1/4W	R336	1-247-884-11	CARBON	150X	5%	1/4W
R226	1-249-431-11	CARBON	15K	5%	1/4W	R337	1-249-437-11	CARBON	47K	5%	1/4W
R227	1-249-433-11	CARBON	22K	5%	1/4W	R338	1-247-886-11	CARBON	200X	5%	1/4W
R228	1-249-439-11	CARBON	220	5%	1/4W	R339	1-247-866-11	CARBON	30K	5%	1/4W
R229	1-249-421-11	CARBON	2.2K	5%	1/4W	R340	1-249-434-11	CARBON	27K	5%	1/4W
R230	1-249-408-11	CARBON	180	5%	1/4W	R341	1-247-872-11	CARBON	51K	5%	1/4W
R231	1-249-436-11	CARBON	39K	5%	1/4W	R342	1-247-882-11	CARBON	130X	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W	R343	1-247-874-11	CARBON	62K	5%	1/4W
R234	1-249-435-11	CARBON	33K	5%	1/4W	R344	1-249-439-11	CARBON	68K	5%	1/4W
R235	1-249-437-11	CARBON	47K	5%	1/4W	R345	1-247-870-11	CARBON	43K	5%	1/4W
R236	1-249-435-11	CARBON	33K	5%	1/4W	R346	1-247-868-11	CARBON	36K	5%	1/4W
R237	1-249-429-11	CARBON	10K	5%	1/4W	R347	1-249-435-11	CARBON	33K	5%	1/4W
R238	1-249-432-11	CARBON	18K	5%	1/4W	R348	1-247-878-00	CARBON	91K	5%	1/4W
R241	1-249-434-11	CARBON	27K	5%	1/4W	R349	1-249-438-11	CARBON	55K	5%	1/4W
						R350	1-249-438-11	CARBON	56K	5%	1/4W

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

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





## 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	
RV881	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

## &lt; CONNECTOR &gt;

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	

## &lt; DIODE &gt;

D701	8-719-200-77	DIODE 10E2N	
D702	8-719-500-36	DIODE 02SB20	
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	

## &lt; FUSE &gt;

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)	

## &lt; INDICATOR TUBE &gt;

FL901	1-519-887-11	INDICATOR TUBE, FLUORESCENT	
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## &lt; IC &gt;

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

## &lt; JACK &gt;

J501	1-507-981-11	JACK (LARGE TYPE) (HEADPHONES)	
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## &lt; TRANSISTOR &gt;

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	

## &lt; RESISTOR &gt;

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)			
S303	1-570-953-11	SWITCH. PUSH (1 KEY) (CASSETTE LID)			
S331	1-554-303-21	SWITCH. TACTILE (OPEN/CLOSE)			
S332	1-554-303-21	SWITCH. TACTILE (REW)			
S333	1-554-303-21	SWITCH. TACTILE (FF)			
S334	1-554-303-21	SWITCH. TACTILE (REC)			
S335	1-554-303-21	SWITCH. TACTILE (COUNTER RESET)			
S336	1-554-303-21	SWITCH. TACTILE (COUNTER MEMOLY)			
S341	1-554-303-21	SWITCH. TACTILE (STOP)			
S342	1-554-303-21	SWITCH. TACTILE (PAUSE)			
S343	1-554-303-21	SWITCH. TACTILE (FWD)			
S344	1-554-303-21	SWITCH. TACTILE (REV)			
S345	1-554-303-21	SWITCH. TACTILE (REC MUTE)			
S351	1-554-303-21	SWITCH. TACTILE (SKIP)			
S352	1-554-303-21	SWITCH. TACTILE (B1 SKIP)			
S353	1-554-303-21	SWITCH. TACTILE (ALL REW)			
S354	1-554-303-21	SWITCH. TACTILE (CD SYNC)			
S355	1-554-303-21	SWITCH. TACTILE (SHUFFLE)			
S356	1-554-303-21	SWITCH. TACTILE (PROGRAM)			
S361	1-554-303-21	SWITCH. TACTILE (1)			
S362	1-554-303-21	SWITCH. TACTILE (2)			
S363	1-554-303-21	SWITCH. TACTILE (3)			
S364	1-554-303-21	SWITCH. TACTILE (4)			
S365	1-554-303-21	SWITCH. TACTILE (5)			
S371	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 >					
XS01	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
< 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 1/0)	
*****			
MISCELLANEOUS			
*****			
84	<del>1-534-517-00</del> <sup>1-590-575-11</sup>	WIRE, FLAT TYPE (11 CORE)	
87	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	<del>1-534-517-00</del> <sup>1-590-575-11</sup>	WIRE, FLAT TYPE (11 CORE)	
159	1-690-320-11	WIRE, FLAT TYPE (11 CORE)	
160	<del>1-534-517-00</del>	WIRE, FLAT TYPE (11 CORE)	
162	▲ 1-555-465-00	CORD, POWER (US, Canadian)	
162	▲ 1-555-795-00	CORD, POWER, ENLO PLUG (AEP, G)	
162	▲ 1-556-035-00	CORD, POWER (UK)	
D1091	8-719-950-74	PHOTOINTERRUPTER SLR314D	
D1001	8-719-980-85	LED SLP325C (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	1-466-625-11	ENCODER, ROTARY	

\*\*\*\*\*

Ref.No.	Part No.	Description	Remark
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

<p>The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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# TC-C5

## SONY<sup>®</sup> SERVICE MANUAL

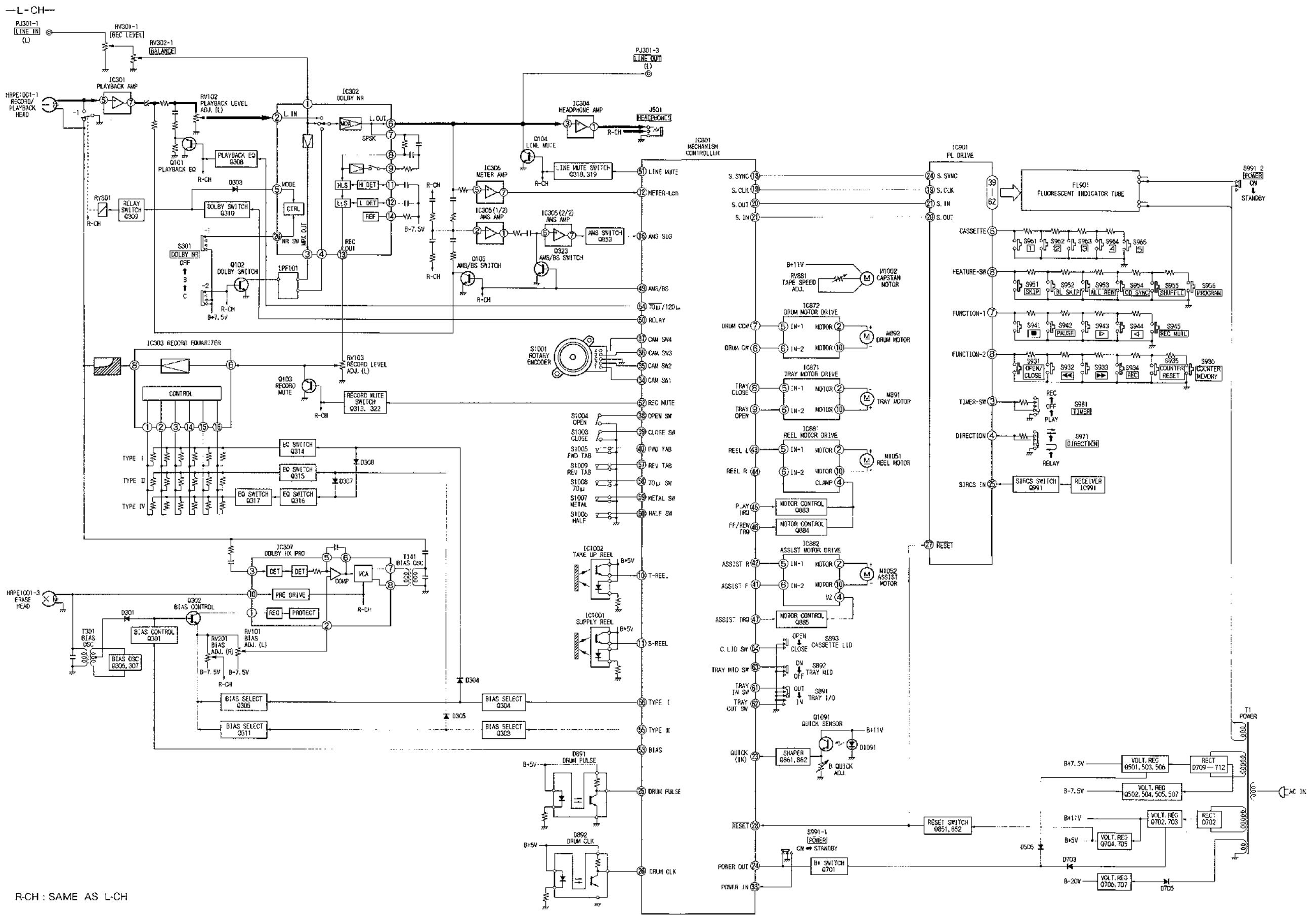
*US Model*  
*Canadian Model*  
*AEP Model*  
*UK Model*

### SUPPLEMENT-1

File this Supplement with the Service Manual.

BLOCK DIAGRAM

BLOCK DIAGRAM



R-CH : SAME AS L-CH



## 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.

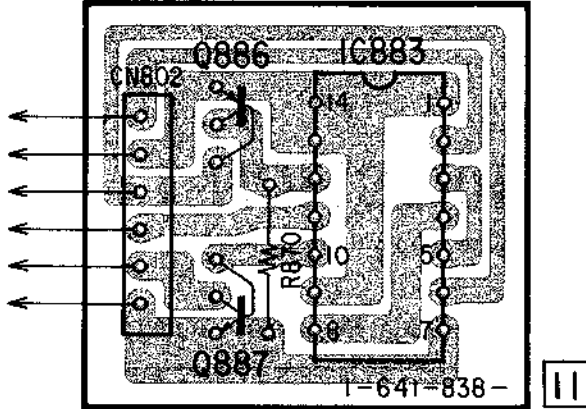
● **ELECTRICAL PARTS LIST** (Service Manual See page 41 – 49)

<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 $\mu$ 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

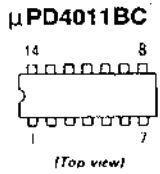
**PRINTED WIRING BOARDS** – Audio/System Control –  
 (Service Manual See page 19 – 22)

**【 ASSIST BOARD 】**

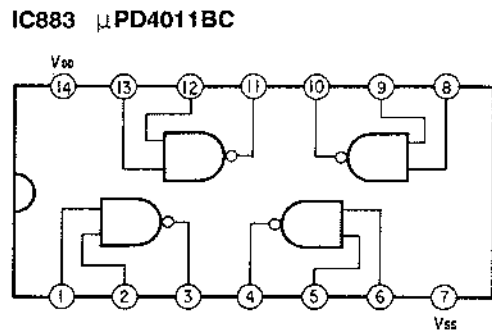
- TO IC801 (38) Pin
- TO +5 (IC801 (1), (3) Pin)
- TO IC801 (47) Pin
- TO Q885 BASE
- TO IC882 (4) Pin
- TO GND



● **Semiconductor Lead Layout**  
 (Service Manual See page 34)

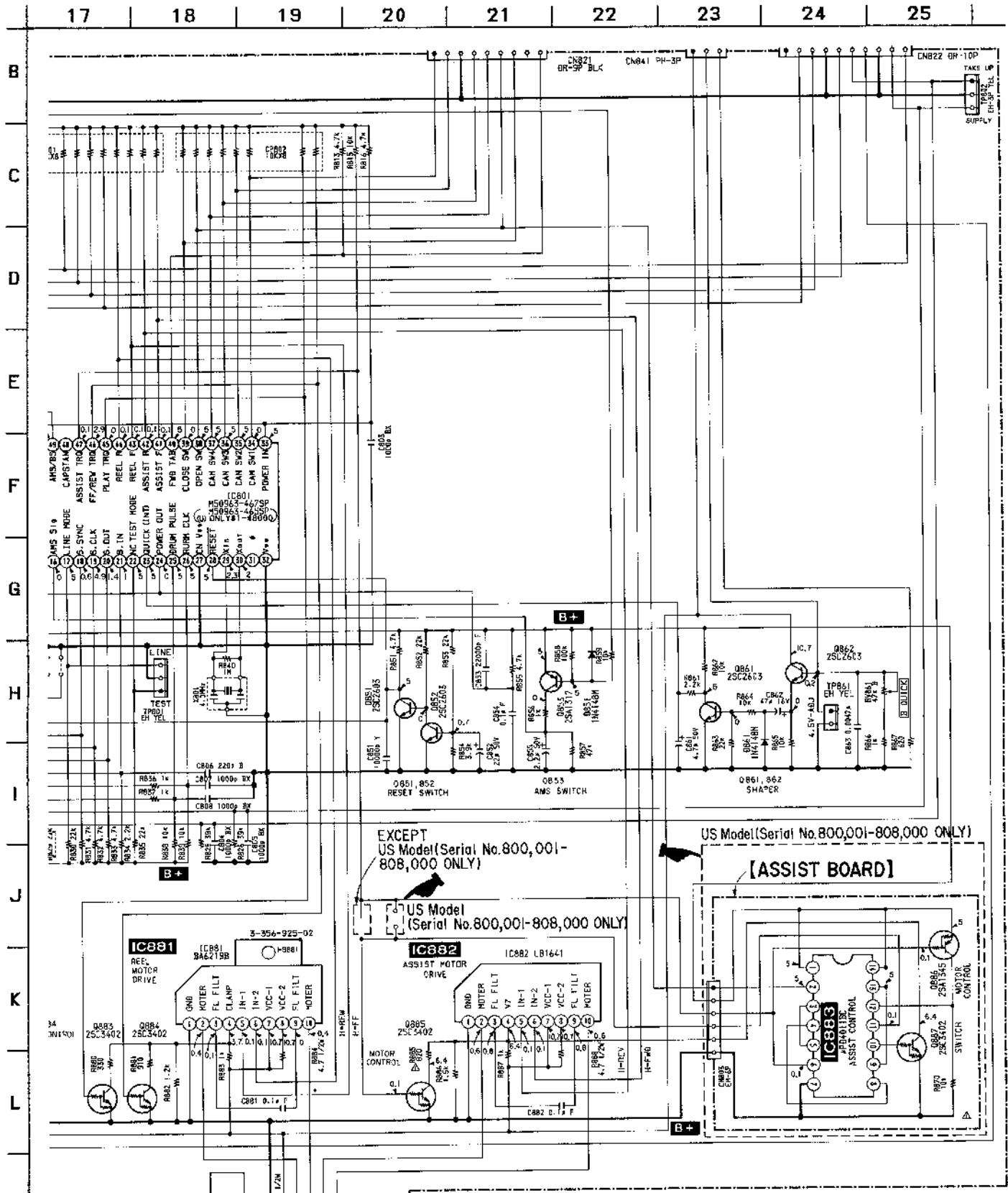


● **IC Block Diagram**  
 (Service Manual See page 26)



**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		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
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)