

# TC-K661S

## SERVICE MANUAL

*AEP Model*  
*UK Model*



Dolby noise reduction manufactured under license from  
Dolby Laboratories licensing Corporation.  
"DOLBY" and the double-D symbol  are trade marks  
of Dolby Laboratories Licensing corporation.

|                          |                         |            |
|--------------------------|-------------------------|------------|
| Model Name               | Using Similar Mechanism | NEW        |
| Tape Transport Mechanism | Type                    | TCM-200V21 |

### SPECIFICATIONS

Recording system 4-track 2-channel stereo  
Fast winding time Approx. 90sec. (with Sony C-60 cassette)  
Bias AC bias  
Heads Erasing head  $\times$  1 (F&F head)  
Recording head  $\times$  1 (SD head)  
Playback head  $\times$  1 (SD head)  
Motors Capstan motor  $\times$  1 (DC servo motor)  
Reel motor  $\times$  1 (DC motor)  
Assist (mechanism drive) motor  $\times$  1  
(DC motor)

Signal-to-noise ratio (at peak level and weighted)

| Cassette       | Type IV | Type II | Type I |
|----------------|---------|---------|--------|
| (Dolby NR off) | 61dB    | 59dB    | 57dB   |

S/N ratio improvement (approximate values)

With Dolby B NR on : 5 dB at 1kHz ; 10 dB at 5 kHz  
With Dolby C NR on : 15 dB at 500 Hz ; 20 dB at 1 kHz  
With Dolby S NR on : 10 dB at 100 Hz ; 24 dB at 1 kHz

Harmonic distortion 0.4% (with Type I , 160 nWb/m,  
315 Hz, 3rd H.D.)  
1.5% (with Type IV , 250 nWb/m,  
315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| Type IV Cassette | 20-20,000Hz ( $\pm$ 3 dB, IEC)<br>20-16,000Hz [ $\pm$ 3 dB ( - 4 dB recording)] |
| Type II Cassette | 20-18,000Hz ( $\pm$ 3 dB, IEC)                                                  |
| Type I Cassette  | 20-17,000Hz ( $\pm$ 3 dB, IEC)                                                  |

Type IV : Sony Type IV (METAL)  
Type II : Sony Type II (HIGH)  
Type I : Sony Type I (NORMAL)

Wow and flutter  $\pm$  0.065% W.Peak (IEC)  
0.045% W. RMS (NAB)  
 $\pm$  0.12% W.Peak (DIN)

Inputs

|                              |                 |           |
|------------------------------|-----------------|-----------|
| Line inputs<br>(phono jacks) | Sensitivity     | 0.16 V    |
|                              | Input impedance | 47 k ohms |

Output

|                                   |                    |                                             |
|-----------------------------------|--------------------|---------------------------------------------|
| Line outputs<br>(phono jacks)     | Rated output level | 0.5V at a load<br>impedance of<br>47 k ohms |
|                                   | Load impedance     | Over 10 k ohms                              |
| Headphones<br>(stereo phone jack) | Output level       | 0-3mW at a load<br>impedance of<br>32 ohms  |

- Connecting on page 2 -

STEREO CASSETTE DECK  
**SONY**®

## General

|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| Power requirements | AEP, German model :<br>220~230V AC, 50Hz<br>UK model : 240V AC, 50Hz |
| Power consumption  | 21W                                                                  |
| Dimensions         | Approx. 430×123×310mm<br>including projecting parts and controls     |
| Mass               | Approx. 4.4kg                                                        |

## Supplied accessories

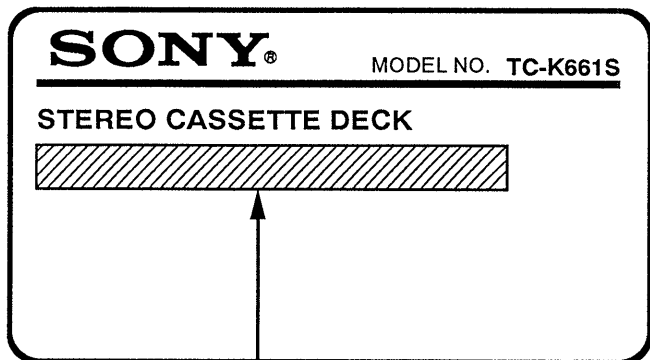
Audio connecting cords (2)

Design and specifications are subject to change without notice.

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## MODEL IDENTIFICATION (Specification Label)



AEP, German model : AC 220-230V~50/60Hz  
UK model : AC 240V~50/60Hz

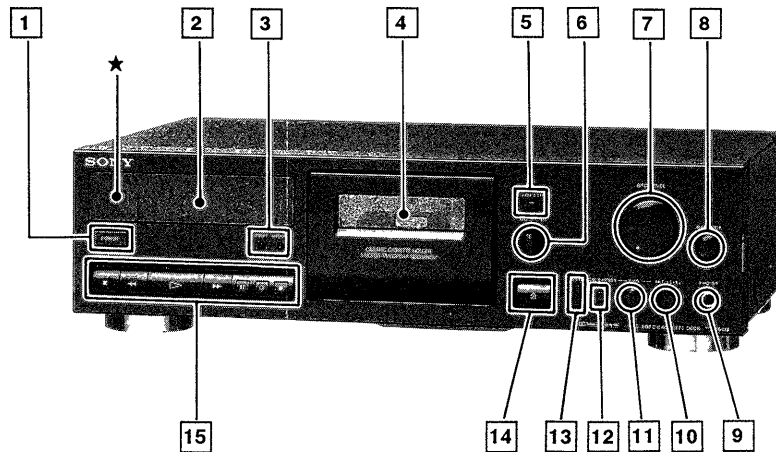
## SAFETY-RELATED COMPONENT WARNING!!

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

## SECTION 1 GENERAL

This section is extracted from instruction manual.

### LOCATION AND FUNCTION OF CONTROLS



- 1** POWER switch
- 2** Display panel
- 3** COUNTER buttons  
RESET button  
MEMORY button
- 4** Cassette holder
- 5** MPX FILTER button
- 6** DOLBY NR (noise reduction) switch
- 7** REC (recording) LEVEL control
- 8** BALANCE control
- 9** PHONES Jack (stereo phone jack)
- 10** REC (recording) LEVEL control for calibration
- 11** BIAS control
- 12** CALIBRATION button
- 13** MONITOR button
- 14**  (EJECT) button

- 15** Tape operation buttons
  -  (Stop) button
  -  (rewind) (Multi-AMS\*\*) button
  -  (play) button
  -  (fast-forward) (Multi-AMS\*\*) button
  -  PAUSE button
  -  REC MUTE (record muting) button
  -  REC (recording) button

#### \* 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.

\*\* AMS is an abbreviation for Automatic Music Sensor.

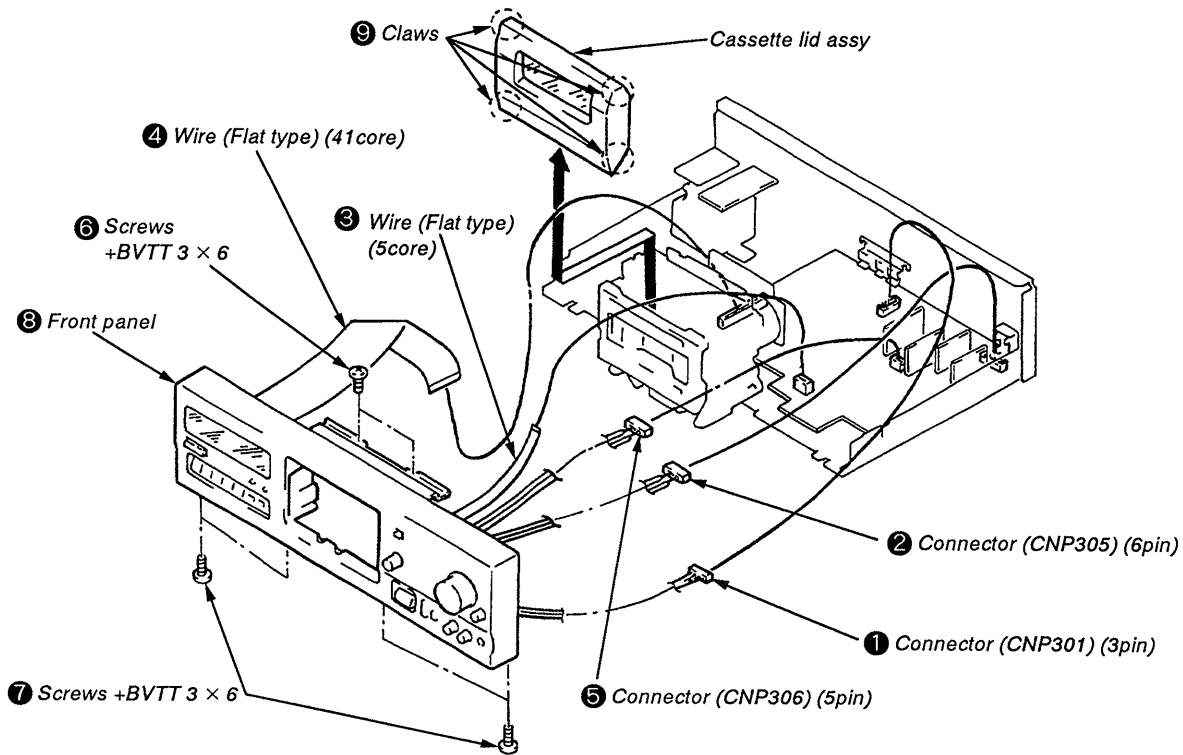
## SECTION 2 DISASSEMBLY

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

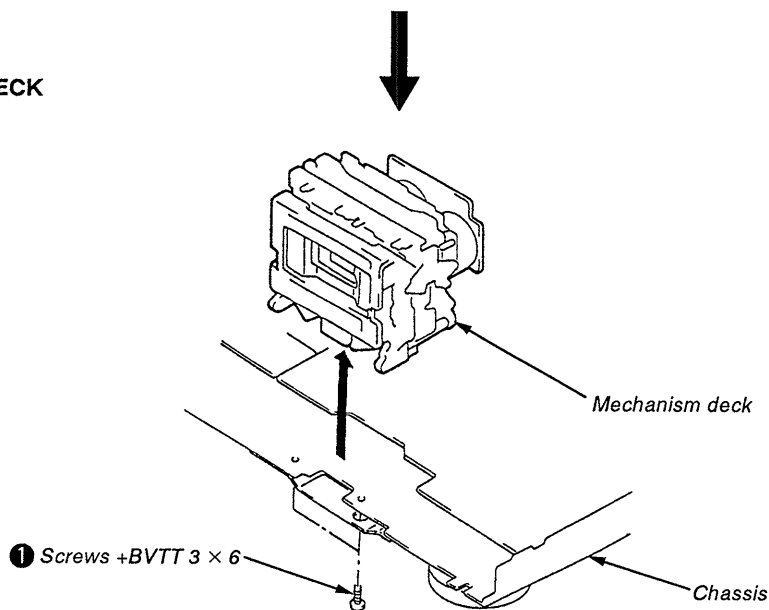
### CASE

Unscrew the four case attachment screws M3 × 8 and remove the case.

#### 2-1. FRONT PANEL

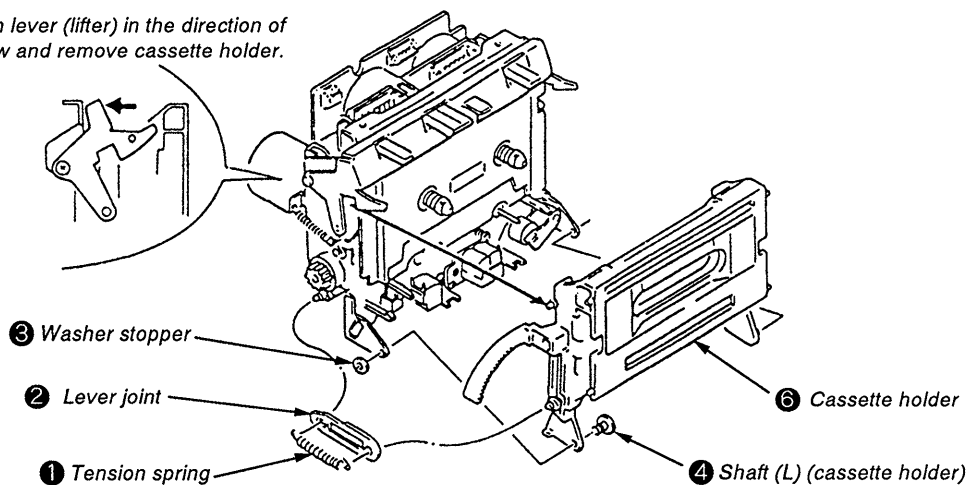


#### 2-2. MECHANISM DECK



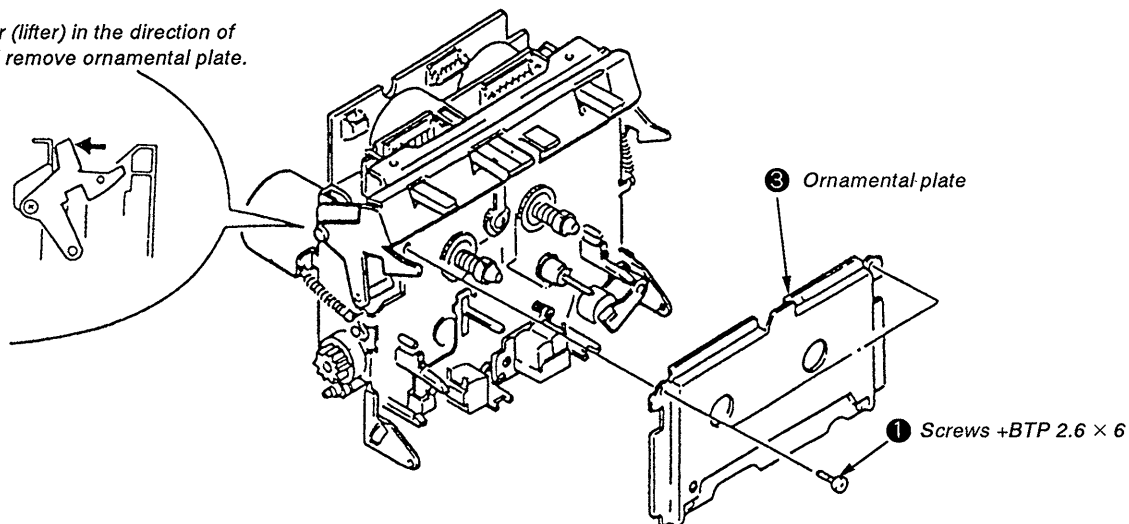
### 2-3. CASSETTE HOLDER

- ⑤ Push lever (lifter) in the direction of arrow and remove cassette holder.

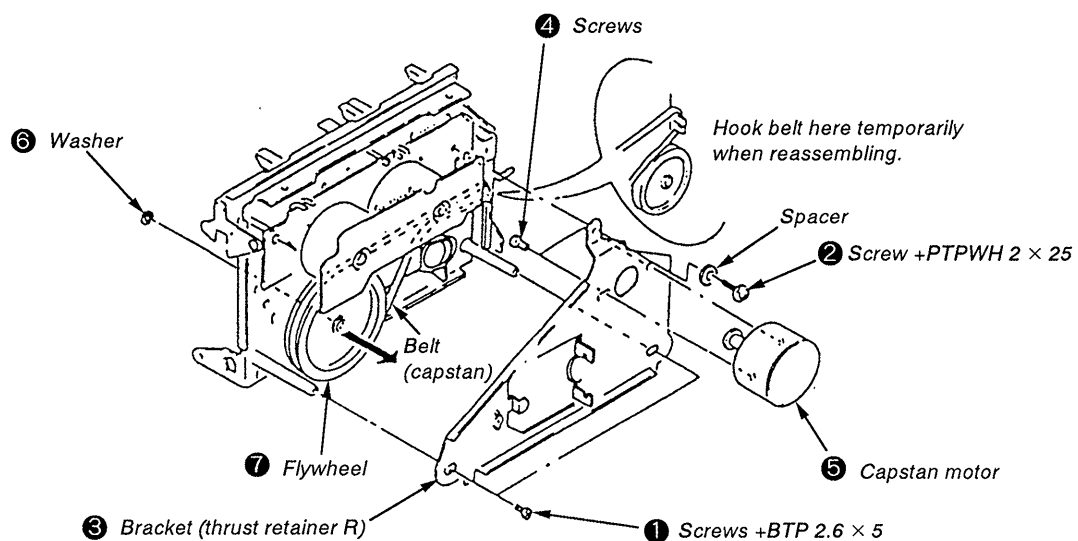


### 2-4. ORNAMENTAL PLATE

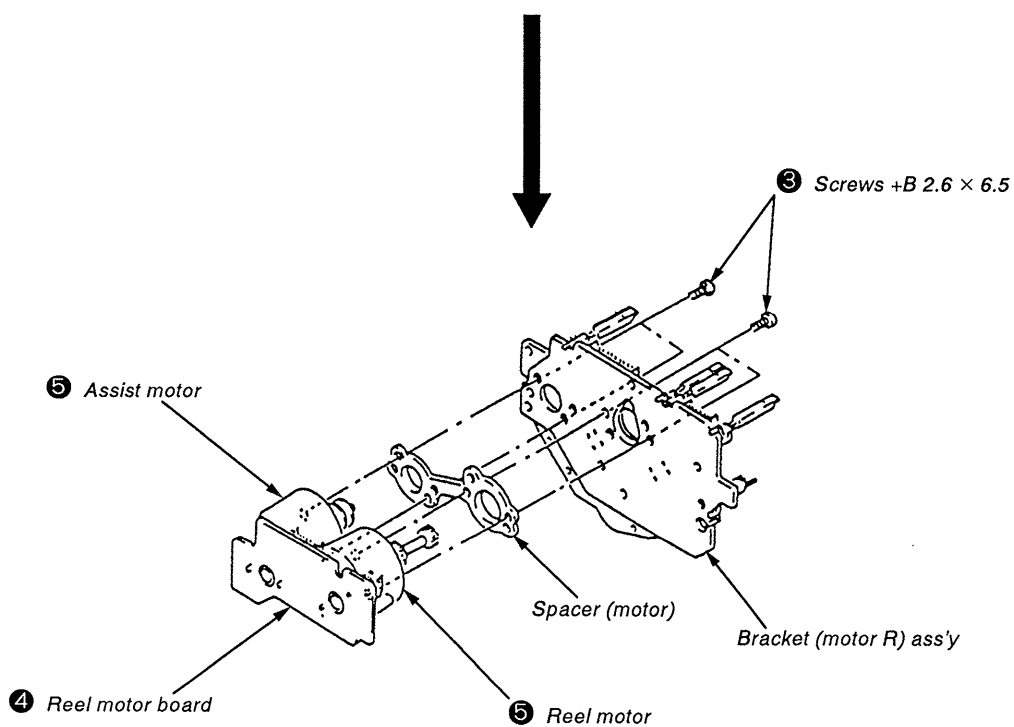
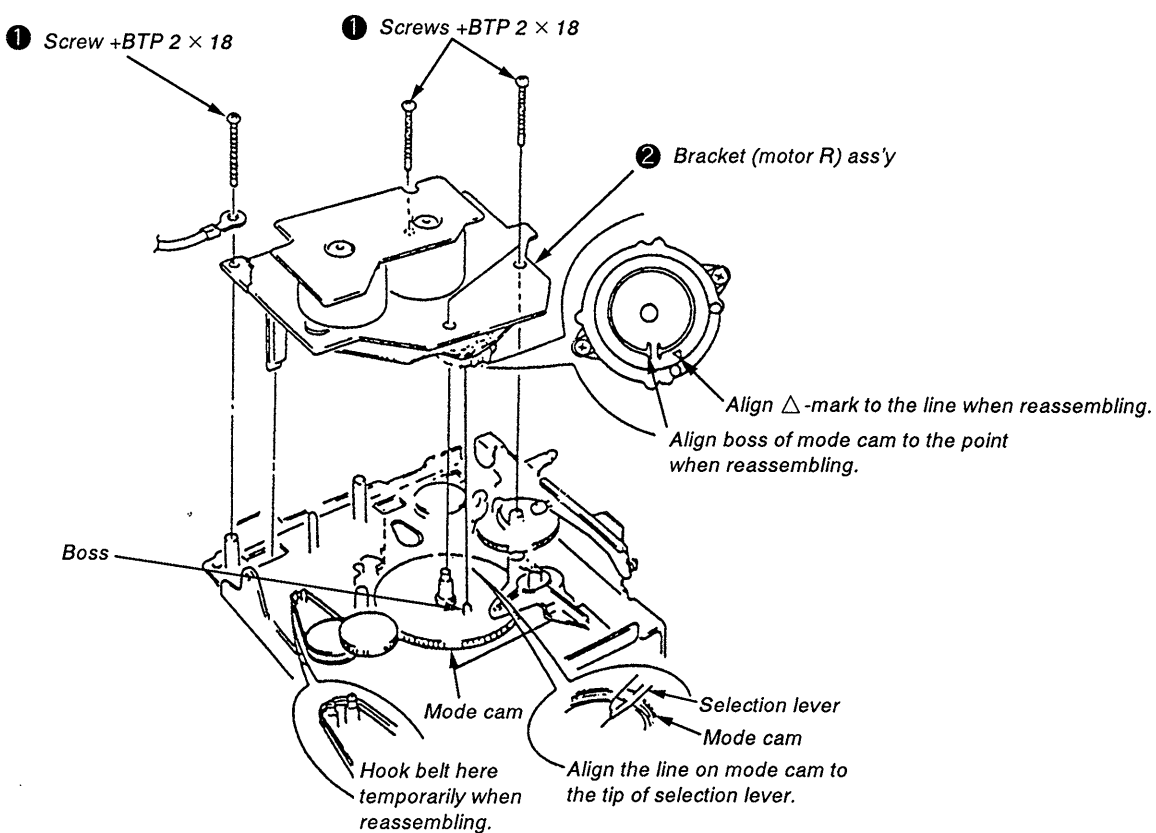
- ② Push lever (lifter) in the direction of arrow and remove ornamental plate.



### 2-5. CAPSTAN MOTOR/FLYWHEEL



## 2-6. REEL AND ASSIST MOTORS



## SECTION 3 ADJUSTMENTS

### 3-1. MECHANICAL ADJUSTMENTS

#### PRECAUTION

- Clean the following parts with a denatured alcohol-moistened swab:
 

|                            |              |
|----------------------------|--------------|
| record/playback/erase head | pinch roller |
| rubber belts               | capstan      |
| idlers                     |              |
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustment.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### Torque Measurement

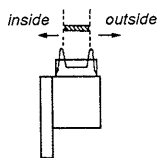
| Mode                       | Torque meter | Meter reading                           |
|----------------------------|--------------|-----------------------------------------|
| Forward                    | CQ-102C      | 30 to 65g•cm<br>(0.42 to 0.90oz•inch)   |
| Forward<br>back<br>tension | CQ-102C      | 1 to 6g•cm<br>(0.014 to 0.08 oz•inch)   |
| FF/REW                     | CQ-201B      | 70 to 120g•cm<br>(0.98 to 1.66 oz•inch) |

#### Record/Playback Head Height/Declination Adjustment Procedures :

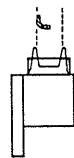
- Test cassette : CQ-009C
- Insert the mirror cassette and put the unit in record/Playback mode.

##### 1) Height Adjustment :

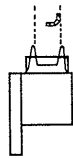
Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws **A**, **B** and **C**, respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally ; but loosen them if the tape begins to curl on the top side (outer side).



Normal  
(Record/playback head  
as seen from the side  
of the erasehead.)



Curling on the inner  
side  
Tighten screws **A**, **B**  
and **C**.



Curling on the outer  
side  
Loosen screws **A**, **B**  
and **C**.

##### 2) Declination Adjustment :

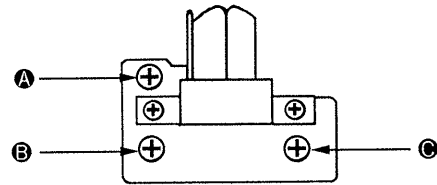
While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.

Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.

When there is a shift, tighten screws **B** and **C** equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.

Repeat the adjustments in steps 1) to 2) and fine adjust the height and the declination.

Adjustment Location : — record/playback head —



### 3-2. ELECTRICAL ADJUSTMENTS

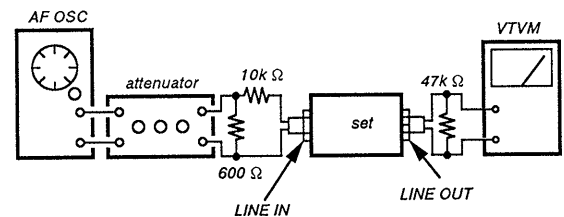
#### PRECAUTION

- The adjustment should be performed in the publication.  
(Be sure to make playback adjustment at first.)
- The adjustments and measurement should be performed for both L-CH and R-CH.
  - Switch position
 

|                    |                |
|--------------------|----------------|
| DOLBY NR switch    | : OFF          |
| MPX FILTER switch  | : OFF          |
| MONITOR switch     | : TAPE         |
| CALIBRATION switch | : OFF          |
| BIAS control       | : CENTER CLICK |
  - Standard record position:
 

Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

— Record Mode —



### Standard Input Level

| Input terminal     | LINE IN         |
|--------------------|-----------------|
| source impedance   | 10k $\Omega$    |
| input signal level | 0.5V ( - 3.8dB) |

### Standard Output Level

| Output terminal     | LINE OUT        |
|---------------------|-----------------|
| load impedance      | 47k $\Omega$    |
| output signal level | 0.5V ( - 3.8dB) |

### Test Tape

| Tape     | Contents      | Use                   |
|----------|---------------|-----------------------|
| P-4-A100 | 10kHz, - 10dB | Azimuth Adjustment    |
| P-4-L300 | 315Hz, 0dB    | PB Level Adjustment   |
| WS-48B   | 3kHz, 0dB     | Tape Speed Adjustment |

$$0\text{dB}=0.775\text{V}$$

### Test Mode

1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch. (Earth pin ⑨ of IC801 and turn ON the power switch.)

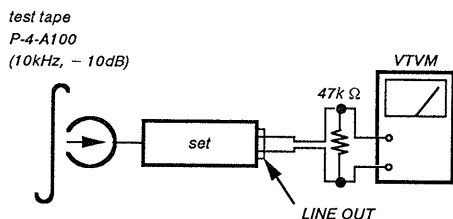
At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0000" is not displayed on the counter.)

2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

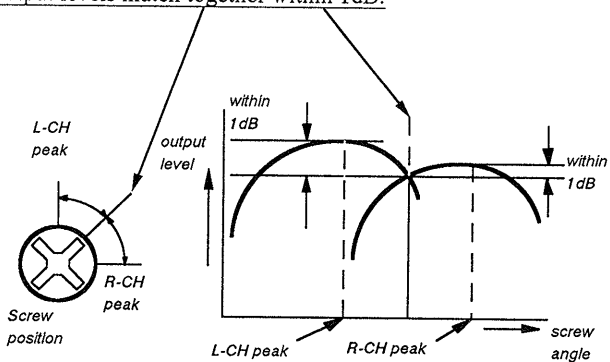
### Record/Playback Head Azimuth Adjustment

#### Procedure :

1. Playback Mode

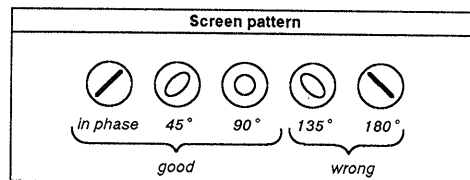
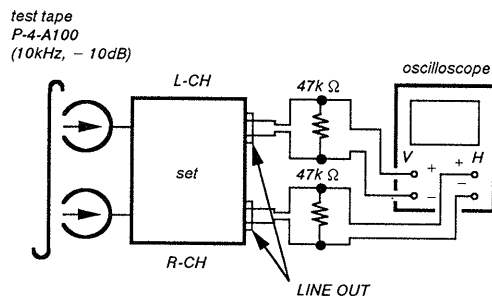


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



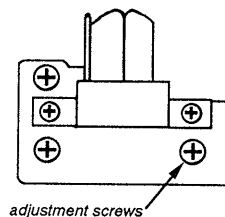
### 3. Phase check

#### Playback Mode



4. After the adjustment, lock the adjustment screws with suitable locking compound.

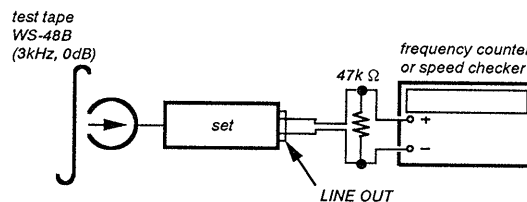
**Adjustment Location :** - record/playback head -



### Tape Speed Adjustment

#### Procedure :

- Playback Mode -

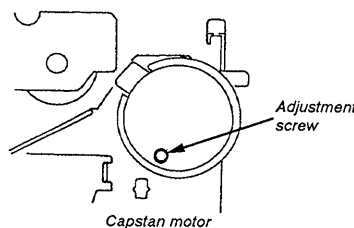


#### Adjustment Value :

| Speed checker | Digital frequency counter |
|---------------|---------------------------|
| $\pm 0.5\%$   | 2,985 - 3,015 Hz          |

Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

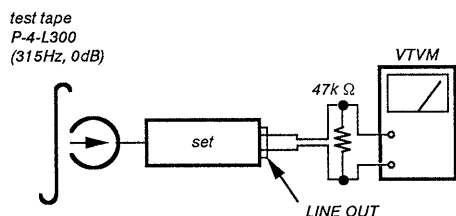
#### Adjustment Location :



## Playback Level Adjustment

### Procedure :

– Forward Playback Mode –



Adjust RV121 (L-CH) and RV221 (R-CH) so the VTVM reading becomes the adjustment limits below.

### Adjustment Value :

LINE OUT level :  $-7.7 \pm 0.5\text{dB}$  (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times

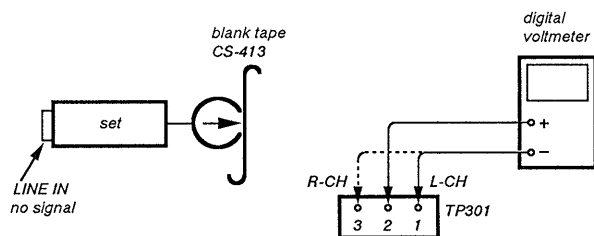
**Adjustment Location :** MAIN board (Page 10)

## Bias Consumption Current Adjustment

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T101, T201).

### Procedure :

( ) : R-CH



1. Connect the digital voltmeter to test point TP301.
2. Set RV103 (RV203) to mechanical center.
3. Set to FWD record mode.
4. Adjust T101 (T201) so that the digital voltmeter reading becomes minimum.

**Adjustment Value :** 220mV or less

**Adjustment Location :** MAIN board (Page 10)

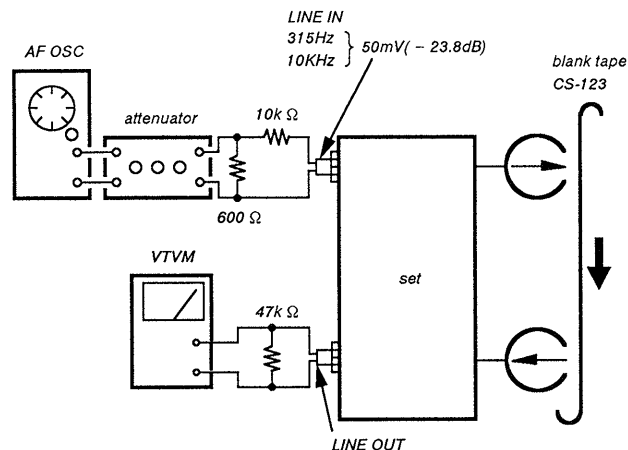
## Record Bias Adjustment

### Setting :

REC LEVEL control : Standard Record

### Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV103 (L-CH) and RV203 (R-CH) so that the 10 kHz playback output is  $0 \pm 0.3\text{dB}$  relative to the 315Hz output.

**Adjustment Location :** MAIN board (Page 10)

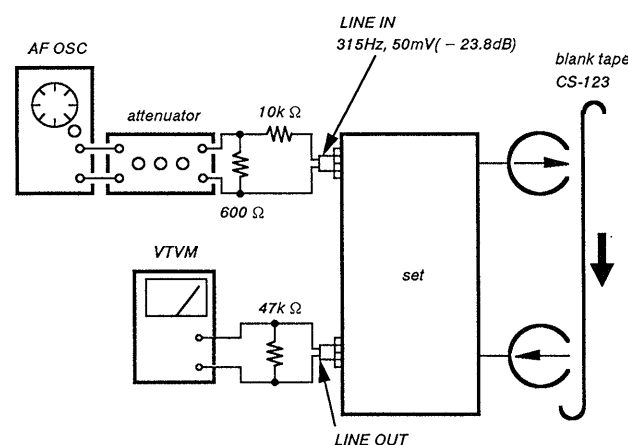
## Record Level Adjustment

### Setting :

REC LEVEL control : Standard Record

### Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV101 (L-CH), RV201 (R-CH) .

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

**Adjustment Location :** MAIN board (Page 10)

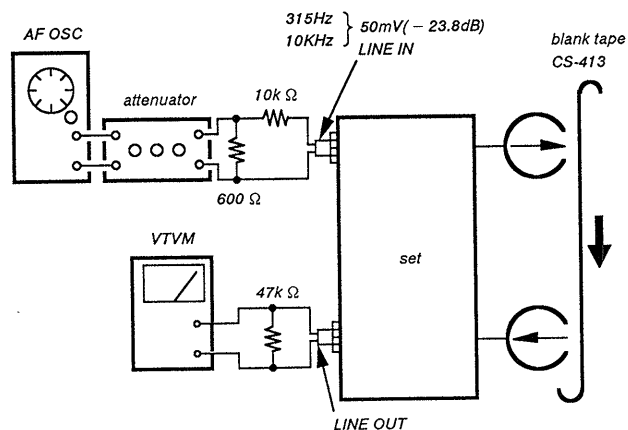
## Record EQ (IV) Adjustment

### Setting :

REC LEVEL control : Standard Record

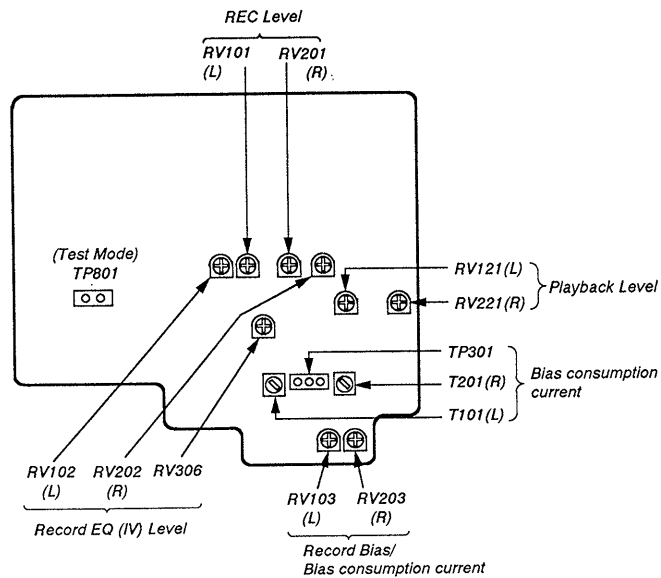
### Procedure :

1. Mode : Simultaneous record and playback



## [MAIN BOARD]

(Component Side)



2. Adjust RV102 and 202 so that they become maximum.
3. Adjust RV102 (L-CH) and 202 (R-CH) so that the difference between R-CH and L-CH at 10 kHz is within 1dB.
4. Adjust RV306 so that the R-CH meet the specification.

### Adjustment Value :

10kHz level difference against 315Hz reference.

$0 \pm 1.0\text{dB}$

Adjustment Location : MAIN board

## SECTION 4

### EXPLANATION OF IC TERMINALS

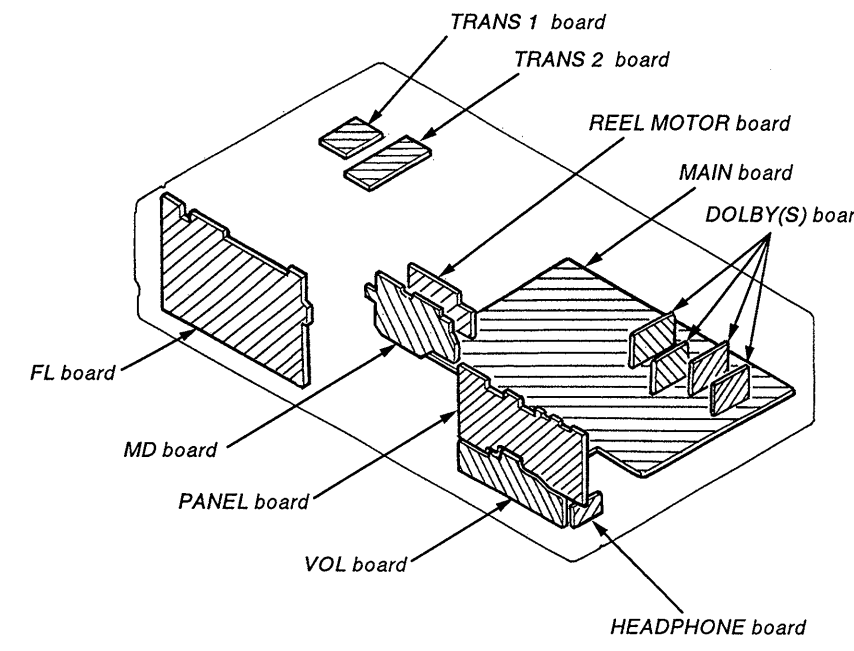
IC801  $\mu$ PD78042GF-050-3B9

| Pin No. | Pin name          | I/O | Description                                       |
|---------|-------------------|-----|---------------------------------------------------|
| 1       | IV                | O   | BIAS EQ IV control.                               |
| 2       | P25               | O   | VFD Segment drive.                                |
| 3       | G5-MODE           | O   | VFD colum mode.                                   |
| 4       | G4-SEC            | O   | VFD colum Sec.                                    |
| 5       | G3-MIN            | O   | VFD colum Min.                                    |
| 6       | G2-RCH            | O   | VFD colum R-CH.                                   |
| 7       | G1-LCH            | O   | VFD colum L-CH.                                   |
| 8       | V <sub>DD</sub>   | —   | Power supply. (+5V)                               |
| 9       | MO.UP             | O   | Asist motor control. UP : “L”                     |
| 10      | MO.DOWN           | O   | Asist motor control. DOWN : “L”                   |
| 11      | MO.REV            | O   | Reel motor REV control. Reset : “H” REV : “L”     |
| 12      | MO.FWD            | O   | Reel motor FWD control. Reset : “H”               |
| 13      | TYPE • IV         | I   | Type IV SW input terminal.                        |
| 14      | HALF-SW           | I   | Half pawl input terminal.                         |
| 15      | TYPE • II         | I   | Type II SW input terminal.                        |
| 16      | TOME SW           | I   | Erase proof switch input terminal.                |
| 17      | RESET             | I   | System reset terminal.                            |
| 18      | 3.0V              | O   | Motor V fast.                                     |
| 19      | 4.5V              | O   | Motor V play.                                     |
| 20      | AV <sub>SS</sub>  | —   | Analog for power supply. (GND)                    |
| 21      | KEY1              | I   | Key input terminal.                               |
| 22      | KEY2              | I   | Key input terminal.                               |
| 23      | T • PULSE         | I   | Take up pulse input terminal.                     |
| 24      | S • PULSE         | I   | Supply pulse input terminal.                      |
| 25      | TEST              | I   | Test mode terminal. “H” : Normal, “L” : Test mode |
| 26      | DOLBY SW          | I   | Dolby SW input terminal.                          |
| 27      | METER-L           | I   | Meter level L-CH input terminal.                  |
| 28      | METER-R           | I   | Meter level R-CH input terminal.                  |
| 29      | AV <sub>DD</sub>  | —   | Analog for power supply. (+5V)                    |
| 30      | AV <sub>ref</sub> | —   | A/D referance voltage. (+5V)                      |
| 31      | AMS-SIG           | I   | AMS signal input terminal.                        |
| 32      | XT2               | —   | Not used. (OPEN)                                  |
| 33      | V <sub>SS</sub>   | —   | Power supply. (GND)                               |
| 34      | XI                | I   | System clock input terminal.                      |
| 35      | XO                | O   | System clock output terminal.                     |
| 36      | PATO              | I   | Encoder control                                   |
| 37      | PAT1              | I   | Encoder control                                   |
| 38      | PAT2              | I   | Encoder control                                   |
| 39      | PAT3              | I   | Encoder control                                   |
| 40      | OPEN              | I   | Open switch input terminal. Open : “L”            |

| Pin No. | Pin name        | I/O | Description                              |
|---------|-----------------|-----|------------------------------------------|
| 41      | CLS SW          | I   | Close switch input terminal. Close : “L” |
| 42      | DOR SW          | I   | Door switch input terminal. Open : “H”   |
| 43      | C.M             | O   | Capstan motor ON/OFF control. ON=0V      |
| 44      | NC              | —   | Not used. (OPEN)                         |
| 45      | POWER OUT       | O   | Power ON/OFF control.                    |
| 46      | POWER IN        | I   | Power OFF. OFF=0V                        |
| 47      | SIRCS           | I   | SIRCS signal input terminal.             |
| 48      | IC              | —   | Not used. (GND)                          |
| 49      | CAL 1 ON/OFF    | O   | Calibration ON/OFF control terminal.     |
| 50      | CAL 2 H/L       | O   | Calibration H/L control terminal.        |
| 51      | BIAS            | O   | BIAS ON/OFF control.                     |
| 52      | V <sub>DD</sub> | —   | Power supply. (+5V)                      |
| 53      | MONITER         | O   | Audio mode select terminal.              |
| 54      | REC-MUT         | O   | REC out mute control.                    |
| 55      | LINE-MUT        | O   | Line mute ON/OFF control terminal.       |
| 56      | DOLBY CON.      | O   | Dolby ON/OFF control terminal.           |
| 57      | SEG B           | O   | VFD segment drive. (Dolby B)             |
| 58      | SEG C           | O   | VFD segment drive. (Dolby C)             |
| 59      | SEG FIL         | O   | VFD segment drive. (Filter)              |
| 60      | SEG S           | O   | VFD segment drive. (Dolby S)             |
| 61      | P1              | O   | VFD segment drive.                       |
| 62      | P2              | O   |                                          |
| 63      | P6              | O   |                                          |
| 64      | P7              | O   |                                          |
| 65      | P3              | O   |                                          |
| 66      | P5              | O   |                                          |
| 67      | P4              | O   |                                          |
| 68      | P8              | O   |                                          |
| 69      | P16             | O   |                                          |
| 70      | P9              | O   |                                          |
| 71      | — 21V           | —   | VFD power supply. ( — 21V)               |
| 72      | P10             | O   | VFD segment drive.                       |
| 73      | P14             | O   |                                          |
| 74      | P15             | O   |                                          |
| 75      | P11             | O   |                                          |
| 76      | P13             | O   |                                          |
| 77      | P12             | O   |                                          |
| 78      | RECCAL          | O   | VFD segment drive. (REC CAL)             |
| 79      | I               | O   | BIAS EQ I control.                       |
| 80      | II              | O   | BIAS EQ II control.                      |

SECTION 5  
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

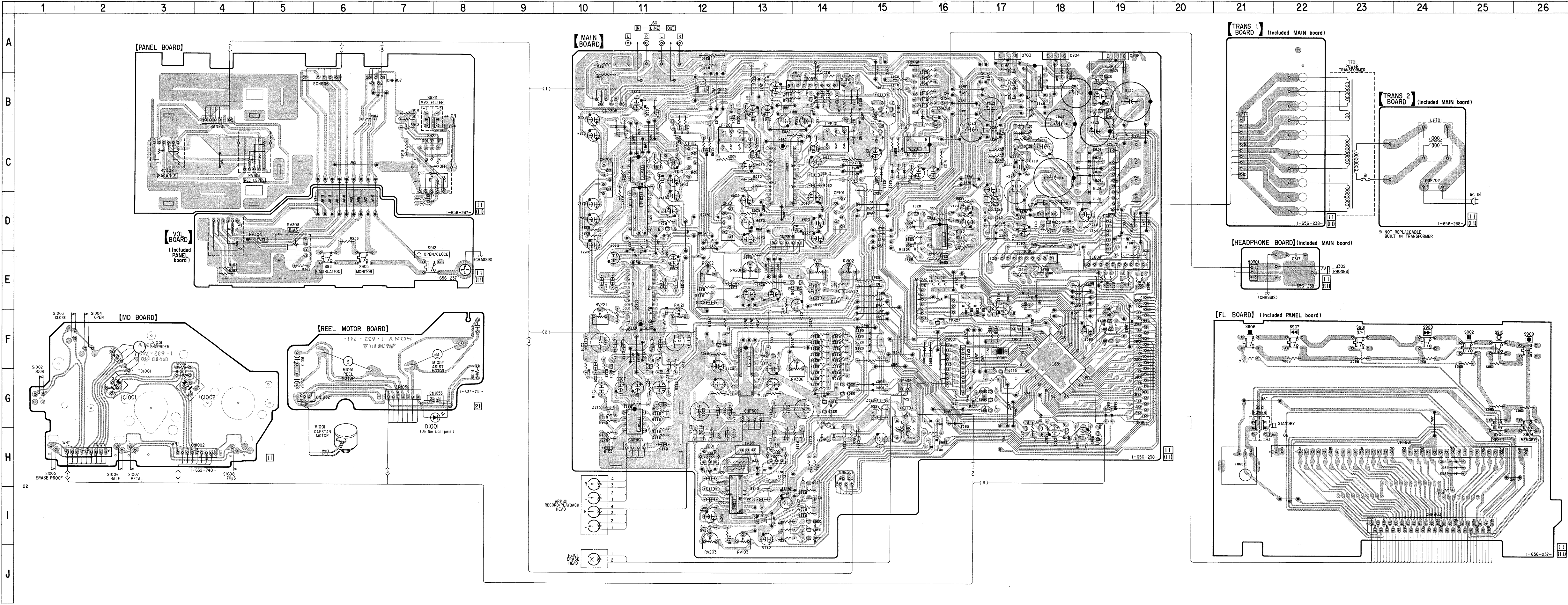


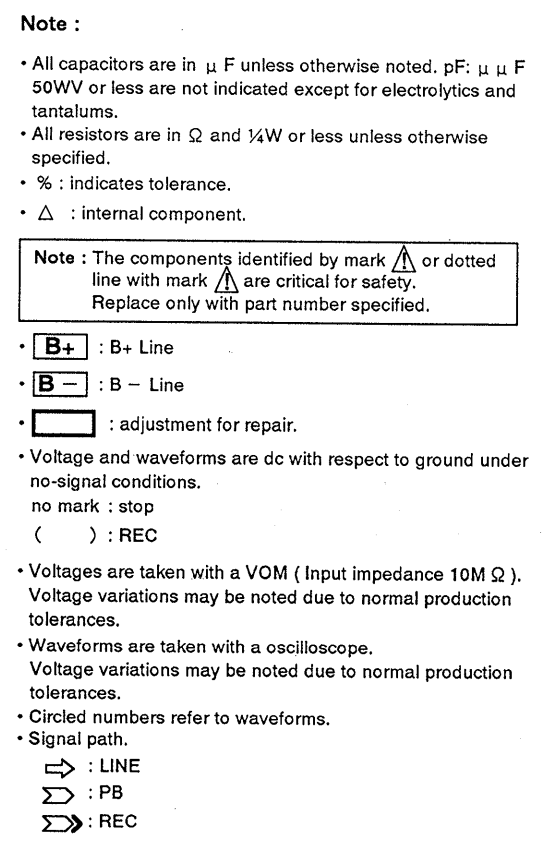
● SEMICONDUCTOR LOCATION

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|
| D101     | B-18     | D812     | E-17     | Q308     | I-14     |
| D102     | B-18     | D814     | F-15     | Q307     | I-14     |
| D201     | C-15     | D815     | F-15     | Q308     | I-14     |
| D202     | C-15     | D901     | H-25     | Q309     | I-14     |
| D301     | B-11     | D902     | H-25     | Q310     | G-14     |
| D302     | B-11     | D903     | H-25     | Q311     | H-14     |
| D303     | B-11     | D1001    | G-8      | Q312     | B-14     |
| D304     | B-11     |          |          | Q313     | B-15     |
| D305     | D-15     |          |          | Q314     | B-15     |
| D306     | F-15     | IC301    | G-11     | Q315     | D-11     |
|          |          | IC302    | C-13     |          |          |
| D307     | G-15     | IC303    | F-13     | Q316     | G-14     |
| D308     | G-15     | IC304    | I-13     | Q701     | D-17     |
| D309     | B-15     | IC305    | D-16     | Q702     | D-17     |
| D310     | B-14     |          |          | Q703     | A-17     |
| D311     | C-15     | IC306    | C-15     | Q704     | A-18     |
|          |          | IC307    | E-11     |          |          |
| D312     | E-15     | IC308    | B-14     | Q705     | D-18     |
| D313     | F-15     | IC309    | B-16     | Q706     | D-18     |
| D701     | C-18     | IC310    | D-11     | Q707     | B-19     |
| D702     | C-18     |          |          | Q708     | A-19     |
| D703     | C-18     | IC311    | C-11     | Q709     | B-19     |
|          |          | IC701    | B-18     |          |          |
| D704     | C-18     | IC801    | F-18     | Q710     | C-17     |
| D705     | C-17     | IC802    | E-17     | Q711     | B-17     |
| D706     | B-18     | IC803    | E-17     | Q801     | G-17     |
| D707     | D-17     |          |          | Q802     | F-16     |
| D712     | D-17     | IC804    | E-19     | Q803     | E-19     |
|          |          | IC901    | H-21     |          |          |
| D713     | D-18     | IC1001   | G-2      | Q805     | E-18     |
| D714     | D-17     | IC1002   | G-3      | Q806     | E-19     |
| D715     | D-19     |          |          | Q807     | H-17     |
| D716     | B-19     |          |          | Q808     | G-17     |
| D717     | B-19     | Q101     | F-11     | Q809     | G-17     |
|          |          | Q102     | B-15     |          |          |
| D718     | D-18     | Q103     | B-12     | Q810     | G-17     |
| D719     | C-17     | Q104     | F-13     | Q811     | F-19     |
| D720     | D-18     | Q105     | E-14     | Q812     | F-19     |
| D722     | D-17     |          |          | Q813     | F-19     |
| D723     | C-19     | Q201     | F-10     | Q814     | H-19     |
|          |          | Q202     | B-13     |          |          |
| D724     | C-17     | Q203     | B-12     | Q815     | H-18     |
| D801     | G-16     | Q204     | F-12     | Q816     | H-18     |
| D802     | F-16     | Q205     | E-13     |          |          |
| D803     | F-16     |          |          |          |          |
| D805     | G-19     | Q301     | D-16     |          |          |
|          |          | Q302     | G-14     |          |          |
| D807     | G-19     | Q303     | G-14     |          |          |
| D808     | H-16     | Q304     | G-14     |          |          |
| D809     | G-16     | Q305     | H-14     |          |          |
| D810     | H-16     |          |          |          |          |
| D811     | E-18     |          |          |          |          |

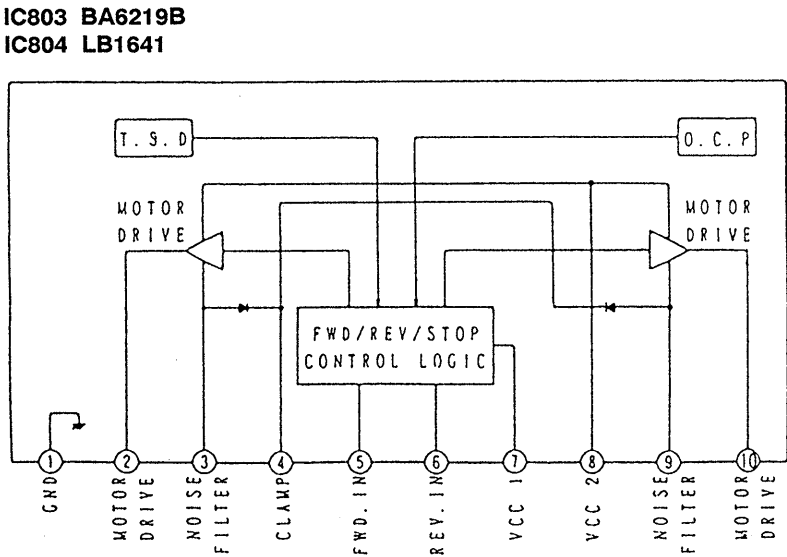
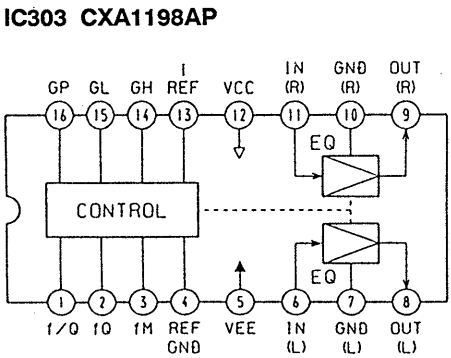
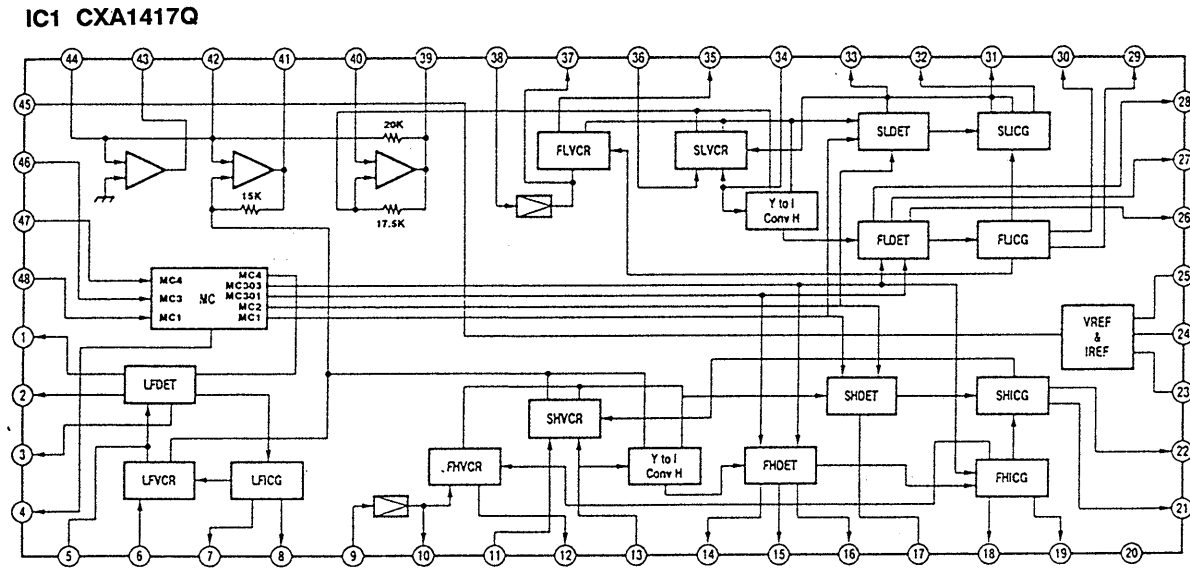
Note:  
○ : parts extracted from the component side.  
⋯ : Pattern on the side which is seen.

5-2. PRINTED WIRING BOARDS (MAIN SECTION)

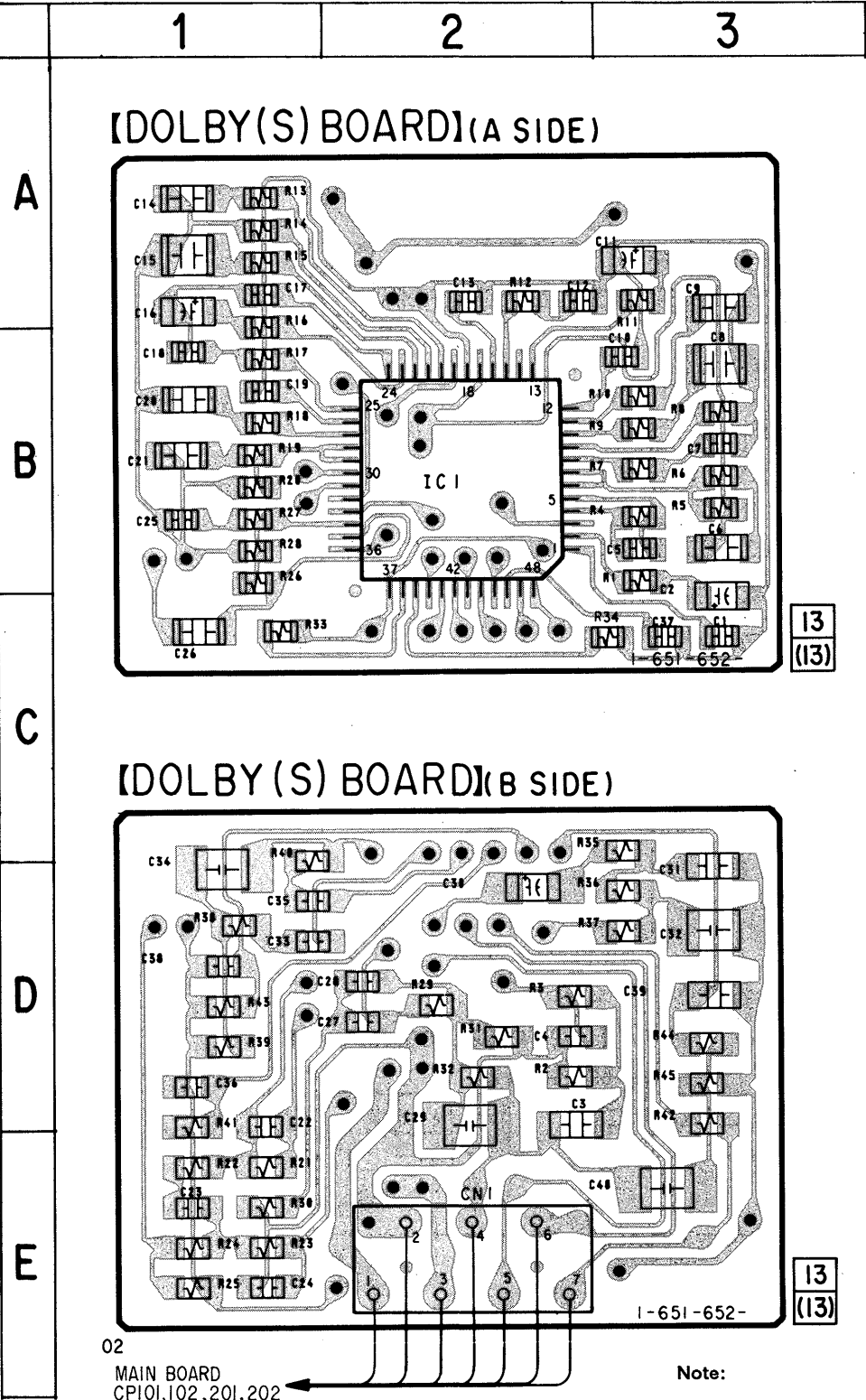




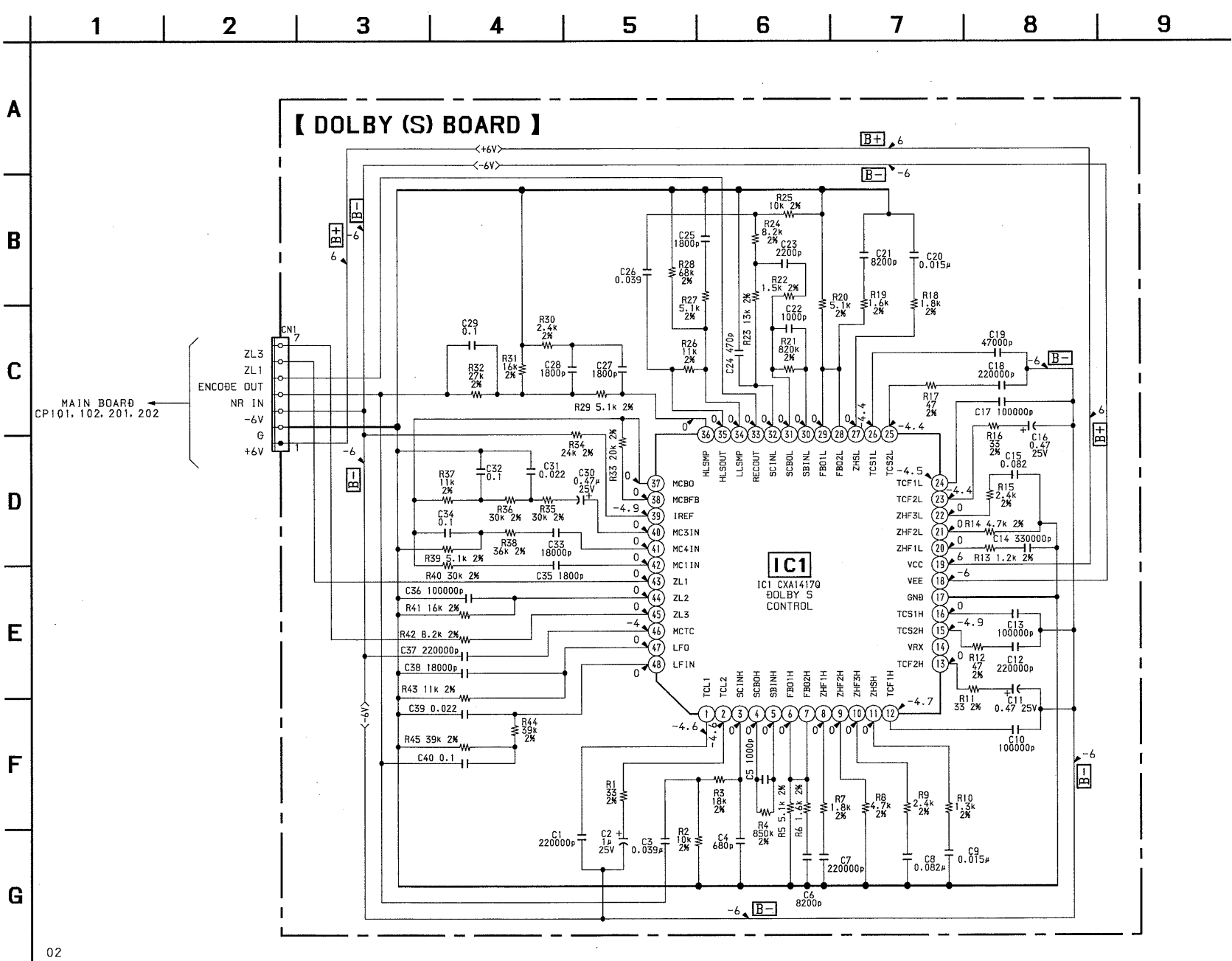
● IC BLOCK DIAGRAM



5-4. PRINTED WIRING BOARDS (DOLBY (S) BOARD)



5-5. SCHEMATIC DIAGRAM (DOLBY (S) BOARD)



Note :

- All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu \mu F$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and 1/10W or less unless otherwise specified.
- % : indicates tolerance.
- **B+** : B+ Line
- **B-** : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.  
no mark : STOP
- Voltages are taken with a VOM ( Input impedance 10M  $\Omega$  ).  
Voltage variations may be noted due to normal production tolerances.

Note:

- ○ : parts extracted from the component side.
- ● : Through hole.
- : Pattern from the side which enables seeing.  
(The other layers' patterns are not indicated)

Caution :

Pattern face side : Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.  
Parts face side : Parts on the parts face side seen from the (Component side) parts face are indicated.

## SECTION 6 EXPLODED VIEWS

### NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

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

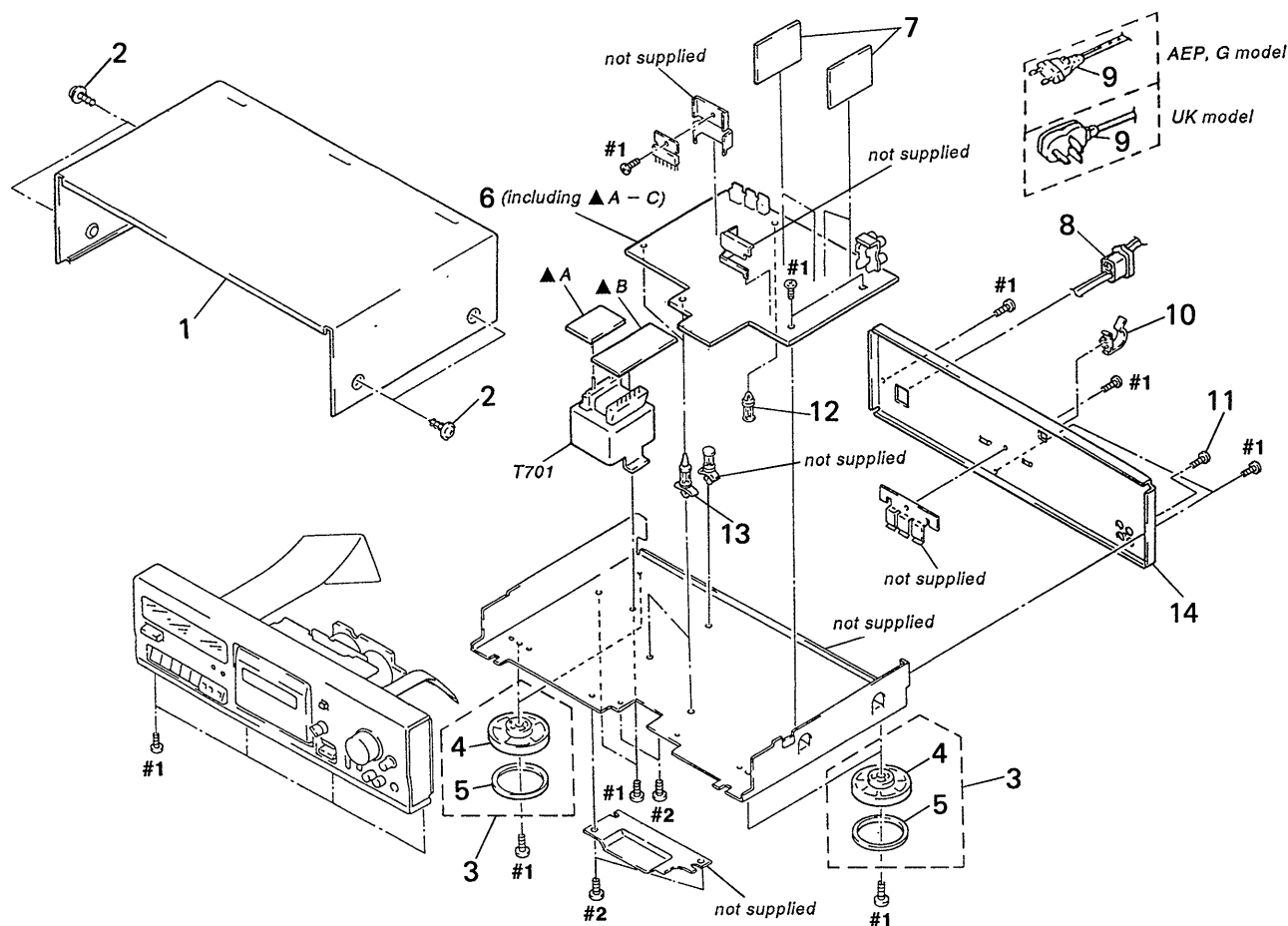
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

- Abbreviation  
G : German

### 6-1. CHASSIS SECTION

$\Delta$  A :TRANS 1 board

$\Delta$  B :TRANS 2 board



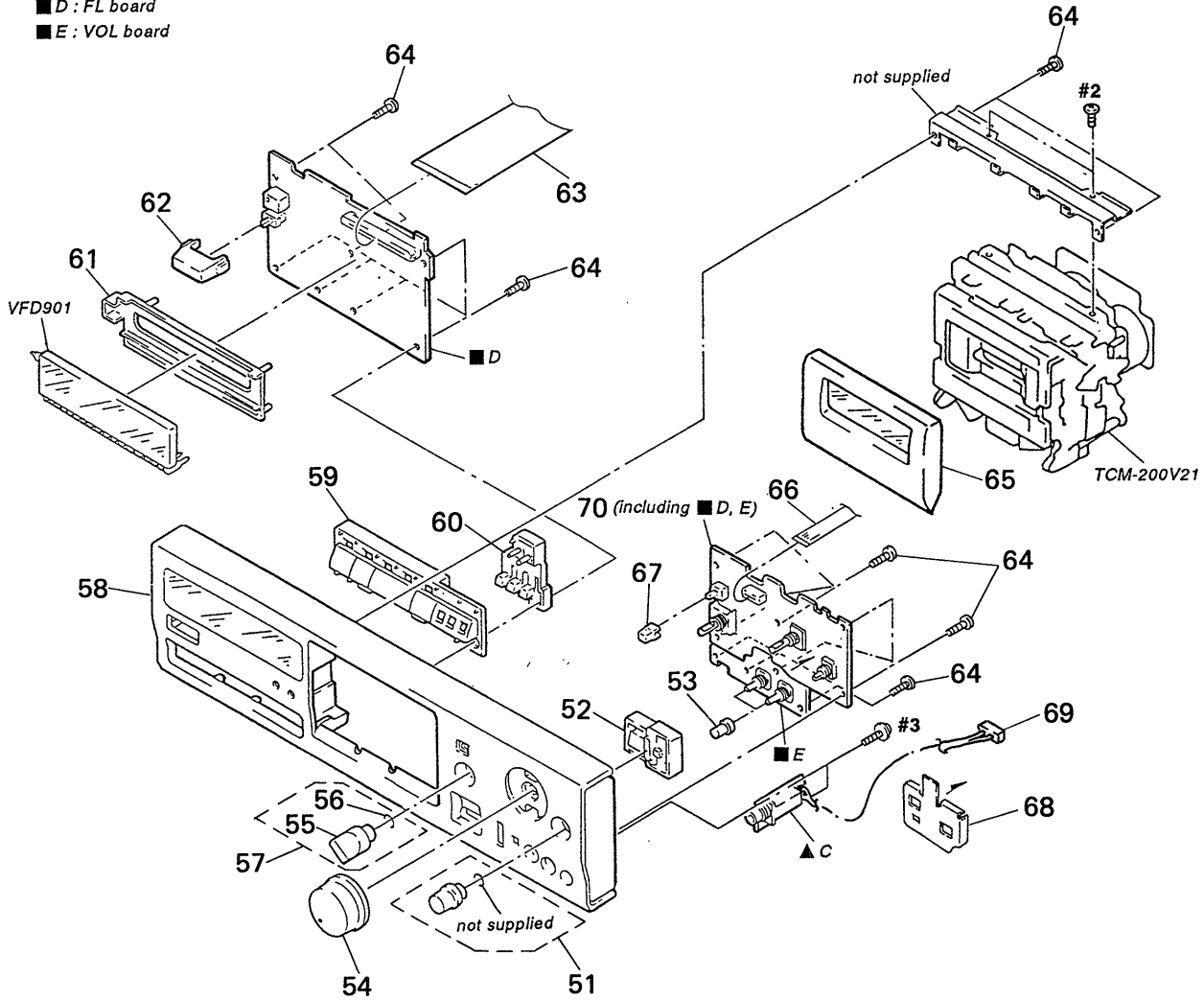
| Ref.No.    | Part No.     | Description             | Remark | Ref.No.       | Part No.     | Description         | Remark |
|------------|--------------|-------------------------|--------|---------------|--------------|---------------------|--------|
| * 1        | 4-943-088-41 | CASE                    |        | $\Delta$ 9    | 1-696-586-11 | CORD, POWER (UK)    |        |
| 2          | 3-363-099-01 | SCREW (CASE 3 TP2)      |        | * 10          | 4-949-235-01 | HOOK (AEP,G)        |        |
| 3          | X-4941-292-1 | FOOT ASSY (F58175S)     |        | 11            | 3-704-515-01 | SCREW (BV/RING)     |        |
| 4          | 3-318-688-31 | FOOT (F58175S)          |        | * 12          | 3-669-610-00 | SPACER              |        |
| 5          | 4-923-836-21 | CUSHION                 |        | * 13          | 3-346-265-31 | HOLDER, PC BOARD    |        |
| * 6        | A-2007-412-A | MAIN BOARD, COMPLETE    |        | * 14          | 3-920-034-01 | PANEL, BACK (UK)    |        |
| * 7        | A-2007-416-A | DOLBY (S) BOARD, COMPLE |        | * 14          | 3-920-034-11 | PANEL, BACK (AEP,G) |        |
| * 8        | 3-703-244-00 | BUSHING (2104), CORD    |        | $\Delta$ T701 | 1-423-476-21 | TRANSFORMER, POWER  |        |
| $\Delta$ 9 | 1-575-651-21 | CORD, POWER (AEP,G)     |        |               |              |                     |        |

## 6-2. FRONT PANEL SECTION

▲ C : HEADPHONE board

■ D : FL board

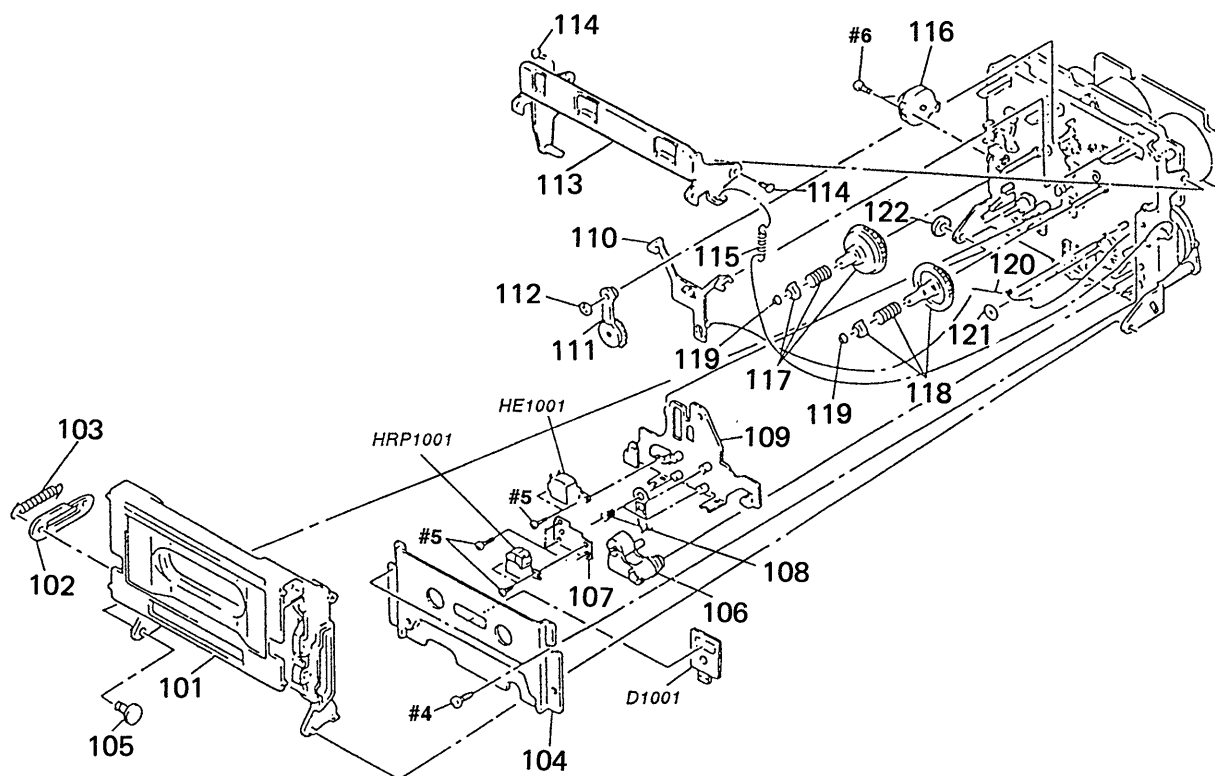
■ E : VOL board



| Ref.No. | Part No.     | Description       | Remark |
|---------|--------------|-------------------|--------|
| 51      | X-3368-033-1 | KNOB (RB) ASSY    |        |
| 52      | 3-923-322-01 | BUTTON (EJEJCT)   |        |
| 53      | 3-367-431-01 | KNOB (BAL)        |        |
| 54      | 3-389-516-01 | KNOB (REC)        |        |
| 55      | 4-908-097-21 | KNOB              |        |
| 56      | 3-350-440-11 | SPRING, RING      |        |
| 57      | X-3368-032-1 | KNOB ASSY         |        |
| 58      | X-3369-576-1 | PANEL ASSY, FRONT |        |
| 59      | 3-386-247-11 | BUTTON (FW)       |        |
| 60      | 3-386-248-11 | BUTTON (RE)       |        |
| * 61    | 3-386-245-11 | HOLDER (FL)       |        |

| Ref.No. | Part No.     | Description                 | Remark |
|---------|--------------|-----------------------------|--------|
| 62      | 3-354-932-01 | BUTTON (POWER)              |        |
| 63      | 1-769-406-11 | WIRE (FLAT TYPE) (41 CORE)  |        |
| 64      | 4-951-620-01 | SCREW (2.6×8), +BVTP        |        |
| 65      | X-3369-577-1 | LID ASSY, CASSETTE          |        |
| 66      | 1-751-734-11 | WIRE (FLAT TYPE) (5 CORE)   |        |
| 67      | 3-380-952-21 | BUTTON                      |        |
| * 68    | 3-904-544-11 | PLATE (VOL), SHIELD         |        |
| * 69    | 1-690-880-31 | LEAD (WITH CONNECTOR)       |        |
| * 70    | A-2007-411-A | PANEL BOARD, COMPLETE       |        |
| VFD901  | 1-517-163-11 | INDICATOR TUBE, FLUORESCENT |        |

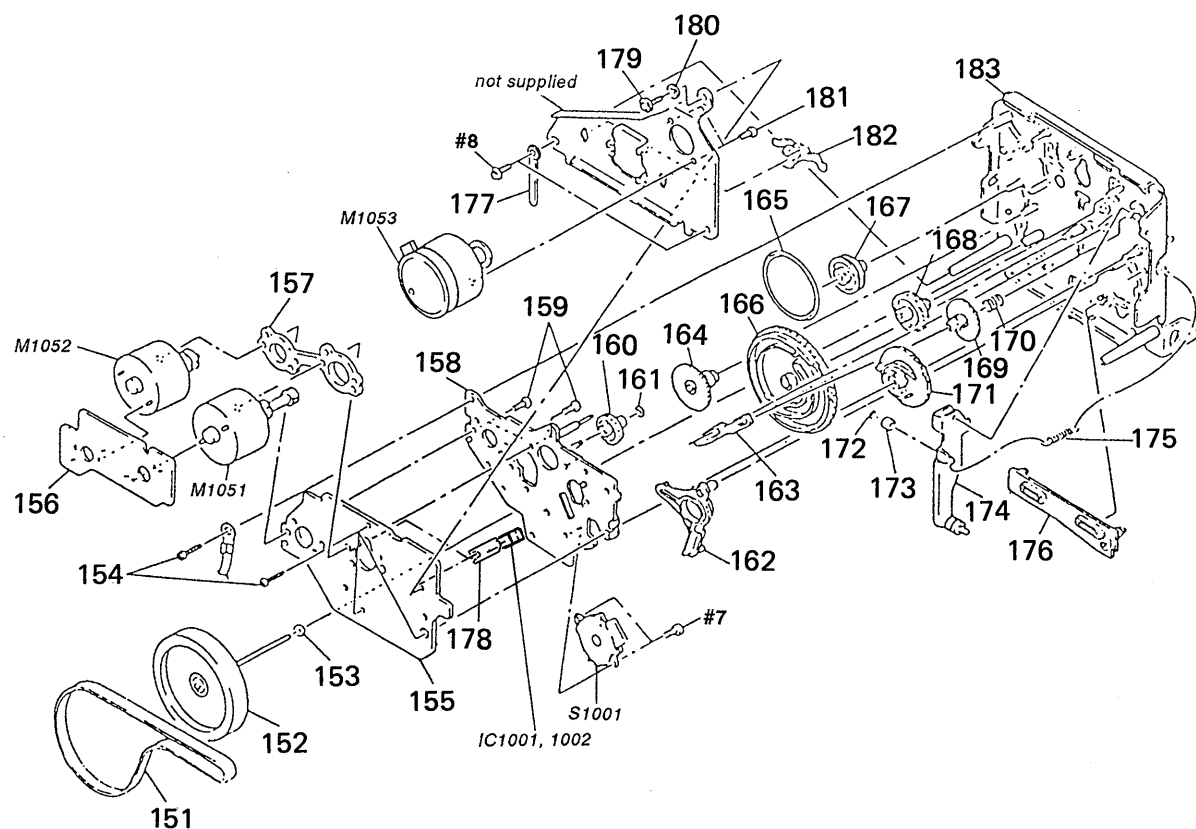
**6-3. MECHANISM SECTION 1**  
(TCM-200V21)



| Ref. No. | Part No.     | Description                   | Remark |
|----------|--------------|-------------------------------|--------|
| 101      | X-3365-299-1 | HOLDER (CD-C) ASSY, CASSETTE  |        |
| * 102    | 3-356-717-01 | LEVER (JOINT)                 |        |
| 103      | 3-356-626-01 | SPRING, TENSION               |        |
| 104      | X-3356-613-1 | PLATE ASSY, ORNAMENTAL        |        |
| 105      | 3-378-341-01 | SHAFT (L) (CASSETTE HOLDER)   |        |
| 106      | X-3356-649-1 | LEVER (PINCH LEVER T) ASSY    |        |
| * 107    | 3-356-742-01 | BRACKET (GUIDE R)             |        |
| 108      | 3-356-659-01 | SPRING (RPH), COMPRESSION     |        |
| 109      | X-3356-648-1 | SLIDER (HEAD CHASSIS V2) ASSY |        |
| 110      | 3-356-614-01 | SLIDER (BRAKE)                |        |
| 111      | X-3356-641-1 | LEVER (FR2) ASSY              |        |
| 112      | 3-669-465-11 | WASHER (1.5), STOPPER         |        |
| * 113    | X-3356-608-1 | LEVER (LIFTER) ASSY           |        |

| Ref. No. | Part No.     | Description                      | Remark |
|----------|--------------|----------------------------------|--------|
| 114      | 3-356-601-11 | SCREW, STEP                      |        |
| 115      | 3-356-625-01 | SPRING, TENSION                  |        |
| 116      | 3-712-786-01 | DAMPER, OIL                      |        |
| 117      | X-3356-628-1 | GEAR (S) ASSY                    |        |
| 118      | X-3356-627-1 | GEAR (T) ASSY                    |        |
| 119      | 3-362-308-01 | CAP (REEL)                       |        |
| 120      | 3-356-619-01 | SPRING (B), TORSION              |        |
| 121      | 3-356-713-01 | WASHER                           |        |
| 122      | 3-558-708-21 | WASHER, STOPPER                  |        |
| D1001    | 8-719-980-85 | LED SLF325C                      |        |
| HE1001   | 1-543-673-11 | HEAD, MAGNETIC (ERASE)           |        |
| HRP1001  | 1-543-733-11 | HEAD, MAGNETIC (RECORD/PLAYBACK) |        |

6-4. MECHANISM SECTION 2  
(TCM-200V21)



| Ref.No. | Part No.     | Description            | Remark | Ref.No. | Part No.     | Description                      | Remark |
|---------|--------------|------------------------|--------|---------|--------------|----------------------------------|--------|
| 151     | 3-356-744-01 | BELT (CAPSTAN V)       |        | 171     | 3-356-616-01 | GEAR (LOADING CAM)               |        |
| 152     | X-3356-642-1 | FLYWHEEL (R FWD) ASSY  |        | 172     | 3-558-708-11 | WASHER, STOPPER                  |        |
| 153     | 3-356-705-01 | WASHER (CAPSTAN)       |        | 173     | 3-356-630-01 | ROLLER (LOADING)                 |        |
| 154     | 3-355-801-01 | SCREW (BTP 2×18)       |        | * 174   | X-3356-606-1 | LEVER (LOADING) ASSY             |        |
| * 155   | 1-632-740-11 | MD BOARD               |        | 175     | 3-356-624-01 | SPRING, TENSION                  |        |
| * 156   | 1-632-741-21 | REEL MOTOR BOARD       |        | 176     | 3-356-653-01 | SLIDER (PAUSE)                   |        |
| * 157   | 3-356-628-01 | SPACER (MOTOR)         |        | 177     | 3-703-397-01 | STOPPER, WIRING                  |        |
| * 158   | X-3356-602-1 | BRACKET (MOTOR R) ASSY |        | 178     | 3-356-631-01 | HOLDER (SENSOR)                  |        |
| 159     | 3-363-804-01 | SCREW (+P 2.6×6.5)     |        | 179     | 3-356-707-01 | SCREW (+PTPWH 2×25)              |        |
| 160     | 3-356-702-01 | GEAR (COMMUNICATION B) |        | * 180   | 3-356-718-01 | SPACER (THRUST RETAINER R)       |        |
| 161     | 3-669-465-01 | WASHER (1.5), STOPPER  |        | 181     | 4-885-599-00 | SCREW, FITTING, REINFORCEMENT    |        |
| 162     | 3-356-613-01 | LEVER (MODE)           |        | 182     | 3-575-321-00 | RETAINER, THRUST, CAPSTAN        |        |
| 163     | 3-356-617-01 | LEVER (SELECTION)      |        | 183     | X-3356-644-1 | CHASSIS (V1) COMPLETE ASSY, MECH |        |
| 164     | 3-356-606-01 | GEAR (MODE)            |        | IC1001  | 8-749-920-97 | DIODE GP2S22B                    |        |
| 165     | 3-356-603-01 | BELT (MODE)            |        | IC1002  | 8-749-920-97 | DIODE GP2S22B                    |        |
| 166     | 3-356-747-01 | GEAR (MODE CAM C)      |        | M1051   | X-3356-638-1 | MOTOR (REEL R) ASSY              |        |
| 167     | 3-356-607-01 | PULLEY (MODE)          |        | M1052   | X-3356-604-1 | MOTOR (ASSIST) ASSY              |        |
| 168     | 3-356-703-01 | GEAR (COMMUNICATION C) |        | M1053   | X-3356-646-1 | MOTOR (CAPSTAN V1) ASSY          |        |
| 169     | 3-356-609-01 | GEAR (LOADING)         |        | S1001   | 1-466-238-11 | ENCODER, ROTARY                  |        |
| 170     | 3-356-605-01 | SPRING, COMPRESSION    |        |         |              |                                  |        |

## SECTION 7 ELECTRICAL PARTS LIST

**DOLBY (S)**

**NOTE :**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- 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

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

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

- Abbreviation  
G : German

| Ref.No. | Part No.     | Description                        | Remark            | Ref.No. | Part No.     | Description          | Remark           |
|---------|--------------|------------------------------------|-------------------|---------|--------------|----------------------|------------------|
| *       | A-2007-416-A | DOLBY (S) BOARD, COMPLETE<br>***** |                   | C31     | 1-104-555-11 | FILM CHIP            | 0.022uF 5% 16V   |
|         |              | < CAPACITOR >                      |                   | C32     | 1-104-563-11 | FILM CHIP            | 0.1uF 5% 16V     |
| C1      | 1-164-222-11 | CERAMIC CHIP                       | 0.22uF 25V        | C33     | 1-163-024-00 | CERAMIC CHIP         | 0.018uF 10% 50V  |
| C2      | 1-135-177-21 | TANTALUM CHIP                      | 1uF 20% 20V       | C34     | 1-104-563-11 | FILM CHIP            | 0.1uF 5% 16V     |
| C3      | 1-104-558-11 | FILM CHIP                          | 0.039uF 5% 16V    | C35     | 1-163-012-00 | CERAMIC CHIP         | 0.0018uF 10% 50V |
| C4      | 1-163-007-11 | CERAMIC CHIP                       | 680PF 10% 50V     | C36     | 1-165-319-11 | CERAMIC CHIP         | 0.1uF 50V        |
| C5      | 1-163-009-11 | CERAMIC CHIP                       | 0.001uF 10% 50V   | C37     | 1-164-222-11 | CERAMIC CHIP         | 0.22uF 25V       |
| C6      | 1-164-717-11 | CERAMIC CHIP                       | 0.0082uF 5% 50V   | C38     | 1-163-024-00 | CERAMIC CHIP         | 0.018uF 10% 50V  |
| C7      | 1-164-222-11 | CERAMIC CHIP                       | 0.22uF 25V        | C39     | 1-104-555-11 | FILM CHIP            | 0.022uF 5% 16V   |
| C8      | 1-104-562-11 | FILM CHIP                          | 0.082uF 5% 16V    | C40     | 1-104-563-11 | FILM CHIP            | 0.1uF 5% 16V     |
| C9      | 1-104-553-11 | FILM CHIP                          | 0.015uF 5% 16V    |         |              | < CONNECTOR >        |                  |
| C10     | 1-165-319-11 | CERAMIC CHIP                       | 0.1uF 50V         | CN1     | 1-695-092-11 | SOCKET, CONNECTOR 7P |                  |
| C11     | 1-135-145-11 | TANTALUM CHIP                      | 0.47uF 10% 35V    |         |              | < IC >               |                  |
| C12     | 1-164-222-11 | CERAMIC CHIP                       | 0.22uF 25V        | IC1     | 8-752-056-51 | IC CXA1417Q          |                  |
| C13     | 1-165-319-11 | CERAMIC CHIP                       | 0.1uF 50V         |         |              | < RESISTOR >         |                  |
| C14     | 1-162-568-11 | CERAMIC CHIP                       | 0.33uF 10% 16V    | R1      | 1-216-615-11 | METAL CHIP           | 33 0.5% 1/10W    |
| C15     | 1-104-562-11 | FILM CHIP                          | 0.082uF 5% 16V    | R2      | 1-208-806-11 | METAL GLAZE          | 10K 2% 1/10W     |
| C16     | 1-135-145-11 | TANTALUM CHIP                      | 0.47uF 10% 35V    | R3      | 1-208-812-11 | METAL GLAZE          | 18K 2% 1/10W     |
| C17     | 1-165-319-11 | CERAMIC CHIP                       | 0.1uF 50V         | R4      | 1-216-119-00 | METAL CHIP           | 820K 5% 1/10W    |
| C18     | 1-164-222-11 | CERAMIC CHIP                       | 0.22uF 25V        | R5      | 1-208-799-11 | METAL GLAZE          | 5.1K 2% 1/10W    |
| C19     | 1-163-035-00 | CERAMIC CHIP                       | 0.047uF 50V       | R6      | 1-208-787-11 | METAL GLAZE          | 1.6K 2% 1/10W    |
| C20     | 1-104-553-11 | FILM CHIP                          | 0.015uF 5% 16V    | R7      | 1-216-657-11 | METAL CHIP           | 1.8K 0.5% 1/10W  |
| C21     | 1-164-717-11 | CERAMIC CHIP                       | 0.0082uF 5% 50V   | R8      | 1-216-667-11 | METAL CHIP           | 4.7K 0.5% 1/10W  |
| C22     | 1-163-009-11 | CERAMIC CHIP                       | 0.001uF 10% 50V   | R9      | 1-208-791-11 | METAL GLAZE          | 2.4K 2% 1/10W    |
| C23     | 1-164-161-11 | CERAMIC CHIP                       | 0.0022uF 10% 100V | R10     | 1-216-052-00 | METAL CHIP           | 1.3K 5% 1/10W    |
| C24     | 1-163-005-11 | CERAMIC CHIP                       | 470PF 10% 50V     | R11     | 1-216-615-11 | METAL CHIP           | 33 0.5% 1/10W    |
| C25     | 1-163-012-00 | CERAMIC CHIP                       | 0.0018uF 10% 50V  | R12     | 1-216-619-11 | METAL CHIP           | 47 0.5% 1/10W    |
| C26     | 1-104-558-11 | FILM CHIP                          | 0.039uF 5% 16V    | R13     | 1-208-784-11 | METAL GLAZE          | 1.2K 2% 1/10W    |
| C27     | 1-163-012-00 | CERAMIC CHIP                       | 0.0018uF 10% 50V  | R14     | 1-216-667-11 | METAL CHIP           | 4.7K 0.5% 1/10W  |
| C28     | 1-163-012-00 | CERAMIC CHIP                       | 0.0018uF 10% 50V  | R15     | 1-208-791-11 | METAL GLAZE          | 2.4K 2% 1/10W    |
| C29     | 1-104-563-11 | FILM CHIP                          | 0.1uF 5% 16V      |         |              |                      |                  |
| C30     | 1-135-145-11 | TANTALUM CHIP                      | 0.47uF 10% 35V    |         |              |                      |                  |

|                  |           |             |                  |                |                |
|------------------|-----------|-------------|------------------|----------------|----------------|
| <b>DOLBY (S)</b> | <b>MD</b> | <b>MAIN</b> | <b>HEADPHONE</b> | <b>TRANS 1</b> | <b>TRANS 2</b> |
|------------------|-----------|-------------|------------------|----------------|----------------|

| Ref.No.       | Part No.     | Description       | Remark          |
|---------------|--------------|-------------------|-----------------|
| R16           | 1-216-615-11 | METAL CHIP        | 33 0.5% 1/10W   |
| R17           | 1-216-619-11 | METAL CHIP        | 47 0.5% 1/10W   |
| R18           | 1-216-657-11 | METAL CHIP        | 1.8K 0.5% 1/10W |
| R19           | 1-208-787-11 | METAL GLAZE       | 1.6K 2% 1/10W   |
| R20           | 1-208-799-11 | METAL GLAZE       | 5.1K 2% 1/10W   |
| R21           | 1-216-119-00 | METAL CHIP        | 820K 5% 1/10W   |
| R22           | 1-216-655-11 | METAL CHIP        | 1.5K 0.5% 1/10W |
| R23           | 1-216-678-11 | METAL CHIP        | 13K 0.5% 1/10W  |
| R24           | 1-216-673-11 | METAL CHIP        | 8.2K 0.5% 1/10W |
| R25           | 1-208-806-11 | METAL GLAZE       | 10K 2% 1/10W    |
| R26           | 1-216-676-11 | METAL CHIP        | 11K 0.5% 1/10W  |
| R27           | 1-208-799-11 | METAL GLAZE       | 5.1K 2% 1/10W   |
| R28           | 1-216-695-11 | METAL CHIP        | 68K 0.5% 1/10W  |
| R29           | 1-208-799-11 | METAL GLAZE       | 5.1K 2% 1/10W   |
| R30           | 1-208-791-11 | METAL GLAZE       | 2.4K 2% 1/10W   |
| R31           | 1-208-811-11 | METAL GLAZE       | 16K 2% 1/10W    |
| R32           | 1-216-685-11 | METAL CHIP        | 27K 0.5% 1/10W  |
| R33           | 1-208-813-11 | METAL GLAZE       | 20K 2% 1/10W    |
| R34           | 1-216-684-11 | METAL CHIP        | 24K 0.5% 1/10W  |
| R35           | 1-208-817-11 | METAL GLAZE       | 30K 2% 1/10W    |
| R36           | 1-208-817-11 | METAL GLAZE       | 30K 2% 1/10W    |
| R37           | 1-216-676-11 | METAL CHIP        | 11K 0.5% 1/10W  |
| R38           | 1-208-819-11 | METAL GLAZE       | 36K 2% 1/10W    |
| R39           | 1-208-799-11 | METAL GLAZE       | 5.1K 2% 1/10W   |
| R40           | 1-208-817-11 | METAL GLAZE       | 30K 2% 1/10W    |
| R41           | 1-208-811-11 | METAL GLAZE       | 16K 2% 1/10W    |
| R42           | 1-216-673-11 | METAL CHIP        | 8.2K 0.5% 1/10W |
| R43           | 1-216-676-11 | METAL CHIP        | 11K 0.5% 1/10W  |
| R44           | 1-216-689-11 | METAL CHIP        | 39K 0.5% 1/10W  |
| R45           | 1-216-689-11 | METAL CHIP        | 39K 0.5% 1/10W  |
| *****         |              |                   |                 |
| *             | 1-632-740-11 | MD BOARD          | *****           |
| < CONNECTOR > |              |                   |                 |
| CN1001        | 1-506-615-11 | PIN, CONNECTOR 9P |                 |
| CN1002        | 1-564-501-11 | PIN, CONNECTOR 8P |                 |
| < IC >        |              |                   |                 |
| IC1001        | 8-749-920-97 | DIODE             | GP2S22B         |
| IC1002        | 8-749-920-97 | DIODE             | GP2S22B         |
| < RESISTOR >  |              |                   |                 |
| R1001         | 1-249-408-11 | CARBON            | 180 5% 1/4W     |
| R1002         | 1-249-408-11 | CARBON            | 180 5% 1/4W     |

| Ref.No.                             | Part No.     | Description                  | Remark           |
|-------------------------------------|--------------|------------------------------|------------------|
| < SWITCH >                          |              |                              |                  |
| S1002                               | 1-570-953-11 | SWITCH, PUSH (1 KEY) (DOOR)  |                  |
| 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 (ERASE PROOF)   |                  |
| S1006                               | 1-572-202-11 | SWITCH, LEAF (HALF)          |                  |
| S1007                               | 1-572-125-11 | SWITCH, LEAF (METAL)         |                  |
| S1008                               | 1-572-125-11 | SWITCH, LEAF (70 $\mu$ S)    |                  |
| < TERMINAL >                        |              |                              |                  |
| * TB1001 1-694-018-11 TERMINAL (5P) |              |                              |                  |
| *****                               |              |                              |                  |
| * A-2007-412-A MAIN BOARD, COMPLETE |              |                              |                  |
| *****                               |              |                              |                  |
| HEADPHONE BOARD                     |              |                              |                  |
| *****                               |              |                              |                  |
| TRANS 1 BOARD                       |              |                              |                  |
| *****                               |              |                              |                  |
| TRANS 2 BOARD                       |              |                              |                  |
| *****                               |              |                              |                  |
| < CAPACITOR >                       |              |                              |                  |
| C101                                | 1-126-963-11 | ELECT                        | 4.7uF 20% 50V    |
| C102                                | 1-162-302-11 | CERAMIC                      | 0.0022uF 20% 16V |
| C104                                | 1-124-907-11 | ELECT                        | 10uF 20% 50V     |
| C105                                | 1-136-165-00 | FILM                         | 0.1uF 5% 50V     |
| C106                                | 1-136-163-00 | FILM                         | 0.068uF 5% 50V   |
| C107                                | 1-124-907-11 | ELECT                        | 10uF 20% 50V     |
| C110                                | 1-136-175-00 | FILM                         | 0.68uF 5% 50V    |
| C111                                | 1-124-907-11 | ELECT                        | 10uF 20% 50V     |
| C112                                | 1-124-907-11 | ELECT                        | 10uF 20% 50V     |
| C113                                | 1-137-428-11 | FILM                         | 180PF 5% 50V     |
| C114                                | 1-107-597-11 | CERAMIC                      | 22PF 5% 500V     |
| C115                                | 1-102-980-00 | CERAMIC                      | 270PF 5% 50V     |
| C116                                | 1-137-434-11 | FILM                         | 0.0018uF 5% 50V  |
| C117                                | 1-136-157-00 | FILM                         | 0.022uF 5% 50V   |
| C118                                | 1-107-714-11 | ELECT                        | 10uF 20% 16V     |
| C119                                | 1-102-518-11 | CERAMIC                      | 33PF 5% 50V      |
| C120                                | 1-137-441-11 | FILM                         | 0.027uF 5% 50V   |
| C121                                | 1-124-925-11 | ELECT                        | 2.2uF 20% 100V   |
| C122                                | 1-136-153-00 | FILM                         | 0.01uF 5% 50V    |
| C123                                | 1-136-157-00 | FILM                         | 0.022uF 5% 50V   |
| C124                                | 1-136-161-00 | FILM                         | 0.047uF 5% 50V   |
| C125                                | 1-136-803-11 | FILM                         | 560PF 5% 630V    |
| C126                                | 1-137-431-11 | FILM                         | 560PF 5% 50V     |
| C127                                | 1-101-810-00 | CERAMIC                      | 100PF 5% 500V    |
| C128                                | 1-137-434-11 | FILM                         | 0.0018uF 5% 50V  |

## MAIN

## HEADPHONE

## TRANS 1

## TRANS 2

| Ref. No. | Part No.     | Description | Remark   |     |      | Ref. No. | Part No.     | Description | Remark   |     |             |
|----------|--------------|-------------|----------|-----|------|----------|--------------|-------------|----------|-----|-------------|
| C130     | 1-137-366-11 | FILM        | 0.0022uF | 5%  | 50V  | C307     | 1-124-443-00 | ELECT       | 100uF    | 20% | 10V         |
| C131     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C308     | 1-124-443-00 | ELECT       | 100uF    | 20% | 10V         |
| C132     | 1-136-165-00 | FILM        | 0.1uF    | 5%  | 50V  | C309     | 1-162-217-31 | CERAMIC     | 56PF     | 5%  | 50V         |
| C133     | 1-136-163-00 | FILM        | 0.068uF  | 5%  | 50V  | C310     | 1-161-494-00 | CERAMIC     | 0.022uF  |     | 25V         |
| C136     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C311     | 1-124-925-11 | ELECT       | 2.2uF    | 20% | 100V        |
| C137     | 1-124-916-11 | ELECT       | 22uF     | 20% | 63V  | C312     | 1-162-217-31 | CERAMIC     | 56PF     | 5%  | 50V         |
| C138     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C313     | 1-124-925-11 | ELECT       | 2.2uF    | 20% | 100V        |
| C140     | 1-124-916-11 | ELECT       | 22uF     | 20% | 63V  | C314     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C141     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C315     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C201     | 1-126-963-11 | ELECT       | 4.7uF    | 20% | 50V  | C316     | 1-124-902-00 | ELECT       | 0.47uF   | 20% | 50V         |
| C202     | 1-162-302-11 | CERAMIC     | 0.0022uF | 20% | 16V  | C317     | 1-161-494-00 | CERAMIC     | 0.022uF  |     | 25V         |
| C204     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C319     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C205     | 1-136-165-00 | FILM        | 0.1uF    | 5%  | 50V  | C320     | 1-126-967-11 | ELECT       | 47uF     | 20% | 35V         |
| C206     | 1-136-163-00 | FILM        | 0.068uF  | 5%  | 50V  | C321     | 1-126-967-11 | ELECT       | 47uF     | 20% | 35V         |
| C207     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C322     | 1-106-349-00 | MYLAR       | 0.0018uF | 5%  | 100V        |
| C210     | 1-136-175-00 | FILM        | 0.68uF   | 5%  | 50V  | C323     | 1-106-349-00 | MYLAR       | 0.0018uF | 5%  | 100V        |
| C211     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C324     | 1-106-359-00 | MYLAR       | 4700PF   | 5%  | 200V        |
| C212     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C325     | 1-124-916-11 | ELECT       | 22uF     | 20% | 63V         |
| C213     | 1-137-428-11 | FILM        | 180PF    | 5%  | 50V  | C326     | 1-136-558-11 | FILM        | 0.0039uF | 5%  | 630V        |
| C214     | 1-107-597-11 | CERAMIC     | 22PF     | 5%  | 500V | C327     | 1-107-584-11 | CERAMIC     | 4PF      |     | 0.25PF 500V |
| C215     | 1-102-980-00 | CERAMIC     | 270PF    | 5%  | 50V  | C329     | 1-161-494-00 | CERAMIC     | 0.022uF  |     | 25V         |
| C216     | 1-137-434-11 | FILM        | 0.0018uF | 5%  | 50V  | C330     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C217     | 1-136-157-00 | FILM        | 0.022uF  | 5%  | 50V  | C331     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C218     | 1-107-714-11 | ELECT       | 10uF     | 20% | 16V  | C332     | 1-124-925-11 | ELECT       | 2.2uF    | 20% | 100V        |
| C219     | 1-102-518-11 | CERAMIC     | 33PF     | 5%  | 50V  | C333     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C220     | 1-137-441-11 | FILM        | 0.027uF  | 5%  | 50V  | C334     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C221     | 1-124-925-11 | ELECT       | 2.2uF    | 20% | 100V | C703     | 1-126-768-11 | ELECT       | 2200uF   | 20% | 16V         |
| C222     | 1-136-153-00 | FILM        | 0.01uF   | 5%  | 50V  | C704     | 1-126-936-11 | ELECT       | 3300uF   | 20% | 16V         |
| C223     | 1-136-157-00 | FILM        | 0.022uF  | 5%  | 50V  | C706     | 1-124-477-11 | ELECT       | 47uF     | 20% | 25V         |
| C224     | 1-136-161-00 | FILM        | 0.047uF  | 5%  | 50V  | C708     | 1-124-473-11 | ELECT       | 1000uF   | 20% | 10V         |
| C225     | 1-136-803-11 | FILM        | 560PF    | 5%  | 630V | C709     | 1-124-473-11 | ELECT       | 1000uF   | 20% | 10V         |
| C226     | 1-137-431-11 | FILM        | 560PF    | 5%  | 50V  | C710     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C227     | 1-101-810-00 | CERAMIC     | 100PF    | 5%  | 500V | C711     | 1-126-937-11 | ELECT       | 4700uF   | 20% | 16V         |
| C228     | 1-137-434-11 | FILM        | 0.0018uF | 5%  | 50V  | C713     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C230     | 1-137-366-11 | FILM        | 0.0022uF | 5%  | 50V  | C714     | 1-126-927-11 | ELECT       | 2200uF   | 20% | 10V         |
| C231     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C715     | 1-124-564-11 | ELECT       | 4700uF   | 20% | 25V         |
| C232     | 1-136-165-00 | FILM        | 0.1uF    | 5%  | 50V  | C716     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V         |
| C233     | 1-136-163-00 | FILM        | 0.068uF  | 5%  | 50V  | C717     | 1-126-768-11 | ELECT       | 2200uF   | 20% | 16V         |
| C236     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C718     | 1-124-122-11 | ELECT       | 100uF    | 20% | 50V         |
| C237     | 1-124-916-11 | ELECT       | 22uF     | 20% | 63V  | C719     | 1-126-967-11 | ELECT       | 47uF     | 20% | 35V         |
| C238     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C720     | 1-164-159-11 | CERAMIC     | 0.1uF    |     | 50V         |
| C240     | 1-124-916-11 | ELECT       | 22uF     | 20% | 63V  | C801     | 1-124-443-00 | ELECT       | 100uF    | 20% | 10V         |
| C241     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C802     | 1-104-666-11 | ELECT       | 220uF    | 20% | 10V         |
| C301     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C803     | 1-164-159-11 | CERAMIC     | 0.1uF    |     | 50V         |
| C302     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C804     | 1-164-159-11 | CERAMIC     | 0.1uF    |     | 50V         |
| C303     | 1-137-436-11 | FILM        | 0.0039uF | 5%  | 50V  | C805     | 1-162-600-11 | CERAMIC     | 0.0047uF | 30% | 16V         |
| C304     | 1-124-907-11 | ELECT       | 10uF     | 20% | 50V  | C806     | 1-162-600-11 | CERAMIC     | 0.0047uF | 30% | 16V         |
| C305     | 1-136-164-00 | FILM        | 0.082uF  | 5%  | 50V  | C808     | 1-126-962-11 | ELECT       | 3.3uF    | 20% | 50V         |
| C306     | 1-124-903-11 | ELECT       | 1uF      | 20% | 50V  |          |              |             |          |     |             |

## MAIN

## HEADPHONE

## TRANS 1

## TRANS 2

| Ref. No.                      | Part No.     | Description                  | Remark |
|-------------------------------|--------------|------------------------------|--------|
| < CONNECTOR >                 |              |                              |        |
| * CNP301                      | 1-564-337-00 | PIN, CONNECTOR 3P            |        |
| * CNP302                      | 1-560-062-00 | PIN, CONNECTOR 4P            |        |
| * CNP303                      | 1-560-060-00 | PIN, CONNECTOR 2P            |        |
| * CNP304                      | 1-560-062-00 | PIN, CONNECTOR 4P            |        |
| * CNP305                      | 1-691-462-11 | PIN, CONNECTOR (PC BOARD) 6P |        |
| * CNP306                      | 1-564-508-11 | PLUG, CONNECTOR 5P           |        |
| * CNP307                      | 1-568-824-11 | SOCKET, CONNECTOR 5P         |        |
| * CNP701                      | 1-564-525-11 | PLUG, CONNECTOR 10P          |        |
| * CNP702                      | 1-580-230-31 | PIN, CONNECTOR (PC BOARD) 2P |        |
| CNP803                        | 1-770-246-11 | SOCKET, CONNECTOR 41P        |        |
| CP101                         | 1-695-087-11 | PIN, CONNECTOR (PC BOARD) 7P |        |
| CP102                         | 1-695-087-11 | PIN, CONNECTOR (PC BOARD) 7P |        |
| CP201                         | 1-695-087-11 | PIN, CONNECTOR (PC BOARD) 7P |        |
| CP202                         | 1-695-087-11 | PIN, CONNECTOR (PC BOARD) 7P |        |
| < COMPOSITION CIRCUIT BLOCK > |              |                              |        |
| CP801                         | 1-233-199-11 | COMPOSITION CIRCUIT BLOCK    |        |
| < DIODE >                     |              |                              |        |
| D101                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D102                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D201                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D202                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D301                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D302                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D303                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D304                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D305                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D306                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D307                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D308                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D309                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D310                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D311                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D312                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D313                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D701                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D702                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D703                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D704                          | 8-719-024-99 | DIODE 11ES2-NTA2B            |        |
| D705                          | 8-719-933-33 | DIODE HZS6A1L                |        |
| D706                          | 8-719-933-33 | DIODE HZS6A1L                |        |
| D707                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D712                          | 8-719-987-63 | DIODE 1N4148M                |        |
| D713                          | 8-719-200-31 | DIODE 21DQ05                 |        |
| D714                          | 8-719-000-78 | DIODE UZL-7L2                |        |
| D715                          | 8-719-987-63 | DIODE 1N4148M                |        |

| Ref. No. | Part No.     | Description                | Remark |
|----------|--------------|----------------------------|--------|
| D716     | 8-719-987-63 | DIODE 1N4148M              |        |
| D717     | 8-719-001-70 | DIODE UZL-12M1             |        |
| D718     | 8-719-024-99 | DIODE 11ES2-NTA2B          |        |
| D719     | 8-719-987-63 | DIODE 1N4148M              |        |
| D720     | 8-719-000-93 | DIODE UZL-7H1              |        |
| D722     | 8-719-987-63 | DIODE 1N4148M              |        |
| D723     | 8-719-025-03 | DIODE RBA-402-SL           |        |
| D724     | 8-719-987-63 | DIODE 1N4148M              |        |
| D801     | 8-719-987-63 | DIODE 1N4148M              |        |
| D802     | 8-719-933-33 | DIODE HZS6A1L              |        |
| D803     | 8-719-933-33 | DIODE HZS6A1L              |        |
| D805     | 8-719-987-63 | DIODE 1N4148M              |        |
| D807     | 8-719-987-63 | DIODE 1N4148M              |        |
| D808     | 8-719-987-63 | DIODE 1N4148M              |        |
| D809     | 8-719-987-63 | DIODE 1N4148M              |        |
| D810     | 8-719-987-63 | DIODE 1N4148M              |        |
| D811     | 8-719-987-63 | DIODE 1N4148M              |        |
| D812     | 8-719-987-63 | DIODE 1N4148M              |        |
| D814     | 8-719-987-63 | DIODE 1N4148M              |        |
| D815     | 8-719-987-63 | DIODE 1N4148M              |        |
| < IC >   |              |                            |        |
| IC301    | 8-759-111-44 | IC uPC4570C-1              |        |
| IC302    | 8-752-066-35 | IC CXA1563S                |        |
| IC303    | 8-752-060-64 | IC CXA1198AP               |        |
| IC304    | 8-759-106-56 | IC uPC1297CA               |        |
| IC305    | 8-759-634-51 | IC M5218AP                 |        |
| IC306    | 8-759-634-51 | IC M5218AP                 |        |
| IC307    | 8-752-066-35 | IC CXA1563S                |        |
| IC308    | 8-759-634-50 | IC M5218AL                 |        |
| IC309    | 8-759-634-50 | IC M5218AL                 |        |
| IC310    | 8-759-000-49 | IC MC14066BCP              |        |
| IC311    | 8-759-634-51 | IC M5218AP                 |        |
| IC701    | 8-759-145-58 | IC uPC4558C                |        |
| IC801    | 8-759-337-28 | IC uPD78042AGF-050-3B9     |        |
| IC802    | 8-759-165-82 | IC PST600E-T               |        |
| IC803    | 8-759-973-95 | IC BA6219B                 |        |
| IC804    | 8-759-822-09 | IC LB1641                  |        |
| < JACK > |              |                            |        |
| J301     | 1-565-258-11 | JACK, PIN 4P (LINE IN/OUT) |        |
| J302     | 1-568-519-41 | JACK, LARGE TYPE (PHONES)  |        |
| < COIL > |              |                            |        |
| L101     | 1-410-780-11 | INDUCTOR 27mH              |        |
| L121     | 1-410-778-11 | INDUCTOR 18mH              |        |
| L201     | 1-410-780-11 | INDUCTOR 27mH              |        |
| L221     | 1-410-778-11 | INDUCTOR 18mH              |        |

# MAIN

# HEADPHONE

# TRANS 1

# TRANS 2

| Ref.No. | Part No.     | Description            | Remark |
|---------|--------------|------------------------|--------|
|         |              | < LINE FILTER >        |        |
| △LF701  | 1-424-485-11 | FILTER, LINE           |        |
|         |              | < FILTER >             |        |
| LPF101  | 1-235-175-11 | FILTER, LOW PASS       |        |
| LPF201  | 1-235-175-11 | FILTER, LOW PASS       |        |
|         |              | < TRANSISTOR >         |        |
| Q101    | 8-729-900-74 | TRANSISTOR DTC143TS    |        |
| Q102    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q103    | 8-729-922-37 | TRANSISTOR 2SD2144S    |        |
| 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    | 8-729-922-37 | TRANSISTOR 2SD2144S    |        |
| Q204    | 8-729-922-37 | TRANSISTOR 2SD2144S    |        |
| Q205    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q301    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        |
| Q302    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q303    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q304    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q305    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        |
| Q306    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q307    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q308    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q309    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q310    | 8-729-194-57 | TRANSISTOR 2SC945-P    |        |
| Q311    | 8-729-194-57 | TRANSISTOR 2SC945-P    |        |
| Q312    | 8-729-922-37 | TRANSISTOR 2SD2144S    |        |
| Q313    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        |
| Q314    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        |
| Q315    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q316    | 8-729-900-74 | TRANSISTOR DTC143TS    |        |
| Q701    | 8-729-900-61 | TRANSISTOR DTA114ES    |        |
| Q702    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q703    | 8-729-141-83 | TRANSISTOR 2SB1094-LK  |        |
| Q704    | 8-729-209-15 | TRANSISTOR 2SD2012     |        |
| Q705    | 8-729-209-15 | TRANSISTOR 2SD2012     |        |
| Q706    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        |
| Q707    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q708    | 8-729-141-83 | TRANSISTOR 2SB1094-LK  |        |
| Q709    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        |
| Q710    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        |
| Q711    | 8-729-140-04 | TRANSISTOR 2SB1116A-L  |        |
| Q801    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q802    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q803    | 8-729-801-84 | TRANSISTOR 2SB1013-4   |        |

| Ref.No. | Part No.     | Description            | Remark |
|---------|--------------|------------------------|--------|
| Q805    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        |
| Q806    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        |
| Q807    | 8-729-142-36 | TRANSISTOR BN1L3Z      |        |
| Q808    | 8-729-900-61 | TRANSISTOR DTA114ES    |        |
| Q809    | 8-729-900-61 | TRANSISTOR DTA114ES    |        |
| Q810    | 8-729-900-80 | TRANSISTOR DTC114ES    |        |
| Q811    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q812    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q813    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q814    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q815    | 8-729-900-89 | TRANSISTOR DTC144ES    |        |
| Q816    | 8-729-900-65 | TRANSISTOR DTA144ES    |        |
|         |              | < RESISTOR >           |        |
| R101    | 1-249-433-11 | CARBON 22K 5% 1/4W     |        |
| R102    | 1-249-417-11 | CARBON 1K 5% 1/4W      |        |
| R103    | 1-249-423-11 | CARBON 3.3K 5% 1/4W    |        |
| R104    | 1-249-428-11 | CARBON 8.2K 5% 1/4W    |        |
| R105    | 1-249-441-11 | CARBON 100K 5% 1/4W    |        |
| R107    | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        |
| R108    | 1-247-860-11 | CARBON 16K 5% 1/4W     |        |
| R109    | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        |
| R110    | 1-249-417-11 | CARBON 1K 5% 1/4W      |        |
| R112    | 1-249-423-11 | CARBON 3.3K 5% 1/4W    |        |
| R113    | 1-249-424-11 | CARBON 3.9K 5% 1/4W    |        |
| R114    | 1-249-429-11 | CARBON 10K 5% 1/4W     |        |
| R115    | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        |
| R116    | 1-249-425-11 | CARBON 4.7K 5% 1/4W    |        |
| R117    | 1-249-441-11 | CARBON 100K 5% 1/4W    |        |
| R118    | 1-249-403-11 | CARBON 68 5% 1/4W      |        |
| R119    | 1-247-882-11 | CARBON 130K 5% 1/4W    |        |
| R120    | 1-249-426-11 | CARBON 5.6K 5% 1/4W    |        |
| R121    | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        |
| R122    | 1-249-420-11 | CARBON 1.8K 5% 1/4W    |        |
| R123    | 1-247-838-00 | CARBON 2K 5% 1/4W      |        |
| R124    | 1-249-441-11 | CARBON 100K 5% 1/4W    |        |
| R125    | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        |
| R126    | 1-249-425-11 | CARBON 4.7K 5% 1/4W    |        |
| R127    | 1-249-435-11 | CARBON 33K 5% 1/4W     |        |
| △R128   | 1-219-153-11 | FUSIBLE 10 5% 1/4W F   |        |
| R129    | 1-247-883-00 | CARBON 150K 5% 1/4W    |        |
| R130    | 1-249-434-11 | CARBON 27K 5% 1/4W     |        |
| R131    | 1-247-874-11 | CARBON 62K 5% 1/4W     |        |
| R133    | 1-249-410-11 | CARBON 270 5% 1/4W     |        |
| R137    | 1-249-441-11 | CARBON 100K 5% 1/4W    |        |
| R138    | 1-249-441-11 | CARBON 100K 5% 1/4W    |        |
| R139    | 1-247-864-11 | CARBON 24K 5% 1/4W     |        |
| R140    | 1-249-429-11 | CARBON 10K 5% 1/4W     |        |
| R141    | 1-249-419-11 | CARBON 1.5K 5% 1/4W    |        |

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

# MAIN

# HEADPHONE

# TRANS 1

# TRANS 2

| Ref. No. | Part No.     | Description | Remark |    |        |
|----------|--------------|-------------|--------|----|--------|
| R142     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R143     | 1-247-844-11 | CARBON      | 3. 6K  | 5% | 1/4W   |
| R144     | 1-249-409-11 | CARBON      | 220    | 5% | 1/4W   |
| R145     | 1-249-426-11 | CARBON      | 5. 6K  | 5% | 1/4W   |
| R152     | 1-247-887-00 | CARBON      | 220K   | 5% | 1/4W   |
| R201     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W   |
| R202     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W   |
| R203     | 1-249-423-11 | CARBON      | 3. 3K  | 5% | 1/4W   |
| R204     | 1-249-428-11 | CARBON      | 8. 2K  | 5% | 1/4W   |
| R205     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W   |
| R207     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R208     | 1-247-860-11 | CARBON      | 16K    | 5% | 1/4W   |
| R209     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R210     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W   |
| R212     | 1-249-423-11 | CARBON      | 3. 3K  | 5% | 1/4W   |
| R213     | 1-249-424-11 | CARBON      | 3. 9K  | 5% | 1/4W   |
| R214     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W   |
| R215     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R216     | 1-249-425-11 | CARBON      | 4. 7K  | 5% | 1/4W   |
| R217     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W   |
| R218     | 1-249-403-11 | CARBON      | 68     | 5% | 1/4W   |
| R219     | 1-247-882-11 | CARBON      | 130K   | 5% | 1/4W   |
| R220     | 1-249-426-11 | CARBON      | 5. 6K  | 5% | 1/4W   |
| R221     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R222     | 1-249-420-11 | CARBON      | 1. 8K  | 5% | 1/4W   |
| R223     | 1-247-838-00 | CARBON      | 2K     | 5% | 1/4W   |
| R224     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W   |
| R225     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R226     | 1-249-425-11 | CARBON      | 4. 7K  | 5% | 1/4W   |
| R227     | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W   |
| △R228    | 1-219-153-11 | FUSIBLE     | 10     | 5% | 1/4W F |
| R229     | 1-247-883-00 | CARBON      | 150K   | 5% | 1/4W   |
| R230     | 1-249-434-11 | CARBON      | 27K    | 5% | 1/4W   |
| R231     | 1-247-874-11 | CARBON      | 62K    | 5% | 1/4W   |
| R233     | 1-249-410-11 | CARBON      | 270    | 5% | 1/4W   |
| R237     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W   |
| R238     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W   |
| R239     | 1-247-864-11 | CARBON      | 24K    | 5% | 1/4W   |
| R240     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W   |
| R241     | 1-249-419-11 | CARBON      | 1. 5K  | 5% | 1/4W   |
| R242     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R243     | 1-247-844-11 | CARBON      | 3. 6K  | 5% | 1/4W   |
| R244     | 1-249-409-11 | CARBON      | 220    | 5% | 1/4W   |
| R245     | 1-249-426-11 | CARBON      | 5. 6K  | 5% | 1/4W   |
| R252     | 1-247-887-00 | CARBON      | 220K   | 5% | 1/4W   |
| R302     | 1-247-848-11 | CARBON      | 5. 1K  | 5% | 1/4W   |
| R303     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R304     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W   |
| R305     | 1-215-452-00 | METAL       | 20K    | 1% | 1/4W   |

| Ref. No. | Part No.     | Description | Remark |    |      |
|----------|--------------|-------------|--------|----|------|
| R306     | 1-249-436-11 | CARBON      | 39K    | 5% | 1/4W |
| R307     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W |
| R308     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R309     | 1-247-864-11 | CARBON      | 24K    | 5% | 1/4W |
| R310     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R311     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R312     | 1-249-433-11 | CARBON      | 22K    | 5% | 1/4W |
| R313     | 1-247-878-00 | CARBON      | 91K    | 5% | 1/4W |
| R314     | 1-249-439-11 | CARBON      | 68K    | 5% | 1/4W |
| R315     | 1-247-870-11 | CARBON      | 43K    | 5% | 1/4W |
| R316     | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W |
| R317     | 1-247-876-11 | CARBON      | 75K    | 5% | 1/4W |
| R318     | 1-247-887-00 | CARBON      | 220K   | 5% | 1/4W |
| R319     | 1-247-878-00 | CARBON      | 91K    | 5% | 1/4W |
| R320     | 1-247-874-11 | CARBON      | 62K    | 5% | 1/4W |
| R321     | 1-247-878-00 | CARBON      | 91K    | 5% | 1/4W |
| R322     | 1-249-437-11 | CARBON      | 47K    | 5% | 1/4W |
| R323     | 1-249-439-11 | CARBON      | 68K    | 5% | 1/4W |
| R324     | 1-247-886-11 | CARBON      | 200K   | 5% | 1/4W |
| R325     | 1-247-874-11 | CARBON      | 62K    | 5% | 1/4W |
| R326     | 1-247-874-11 | CARBON      | 62K    | 5% | 1/4W |
| R327     | 1-249-435-11 | CARBON      | 33K    | 5% | 1/4W |
| R328     | 1-249-438-11 | CARBON      | 56K    | 5% | 1/4W |
| R329     | 1-249-440-11 | CARBON      | 82K    | 5% | 1/4W |
| R330     | 1-247-836-11 | CARBON      | 1. 6K  | 5% | 1/4W |
| R331     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R332     | 1-249-422-11 | CARBON      | 2. 7K  | 5% | 1/4W |
| R333     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W |
| R334     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W |
| R335     | 1-247-822-11 | CARBON      | 430    | 5% | 1/4W |
| R336     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W |
| R337     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R338     | 1-249-421-11 | CARBON      | 2. 2K  | 5% | 1/4W |
| R339     | 1-249-440-11 | CARBON      | 82K    | 5% | 1/4W |
| R340     | 1-249-440-11 | CARBON      | 82K    | 5% | 1/4W |
| R341     | 1-249-390-11 | CARBON      | 5. 6   | 5% | 1/4W |
| R342     | 1-249-390-11 | CARBON      | 5. 6   | 5% | 1/4W |
| R343     | 1-249-437-11 | CARBON      | 47K    | 5% | 1/4W |
| R344     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R345     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R346     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R347     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R348     | 1-249-428-11 | CARBON      | 8. 2K  | 5% | 1/4W |
| R349     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R350     | 1-249-441-11 | CARBON      | 100K   | 5% | 1/4W |
| R351     | 1-249-423-11 | CARBON      | 3. 3K  | 5% | 1/4W |
| R352     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R353     | 1-249-429-11 | CARBON      | 10K    | 5% | 1/4W |
| R354     | 1-249-417-11 | CARBON      | 1K     | 5% | 1/4W |

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

## MAIN

## HEADPHONE

## TRANS 1

## TRANS 2

## REEL MOTOR

| Ref. No. | Part No.     | Description | Remark |     |        |
|----------|--------------|-------------|--------|-----|--------|
| R355     | 1-249-430-11 | CARBON      | 12K    | 5%  | 1/4W   |
| R356     | 1-249-435-11 | CARBON      | 33K    | 5%  | 1/4W   |
| R357     | 1-247-848-11 | CARBON      | 5.1K   | 5%  | 1/4W   |
| R358     | 1-249-437-11 | CARBON      | 47K    | 5%  | 1/4W   |
| R359     | 1-249-434-11 | CARBON      | 27K    | 5%  | 1/4W   |
| R360     | 1-249-437-11 | CARBON      | 47K    | 5%  | 1/4W   |
| R361     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R363     | 1-215-452-00 | METAL       | 20K    | 1%  | 1/4W   |
| R365     | 1-249-433-11 | CARBON      | 22K    | 5%  | 1/4W   |
| R366     | 1-247-862-11 | CARBON      | 20K    | 5%  | 1/4W   |
| R367     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R368     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R369     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R370     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R702     | 1-249-425-11 | CARBON      | 4.7K   | 5%  | 1/4W   |
| R703     | 1-249-420-11 | CARBON      | 1.8K   | 5%  | 1/4W   |
| R704     | 1-249-412-11 | CARBON      | 390    | 5%  | 1/4W   |
| R705     | 1-249-427-11 | CARBON      | 6.8K   | 5%  | 1/4W   |
| R706     | 1-249-419-11 | CARBON      | 1.5K   | 5%  | 1/4W   |
| R707     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R708     | 1-249-419-11 | CARBON      | 1.5K   | 5%  | 1/4W   |
| R709     | 1-249-425-11 | CARBON      | 4.7K   | 5%  | 1/4W   |
| R711     | 1-249-417-11 | CARBON      | 1K     | 5%  | 1/4W   |
| R712     | 1-249-427-11 | CARBON      | 6.8K   | 5%  | 1/4W   |
| R713     | 1-249-427-11 | CARBON      | 6.8K   | 5%  | 1/4W   |
| R714     | 1-249-417-11 | CARBON      | 1K     | 5%  | 1/4W   |
| R715     | 1-249-425-11 | CARBON      | 4.7K   | 5%  | 1/4W   |
| R716     | 1-249-425-11 | CARBON      | 4.7K   | 5%  | 1/4W   |
| R717     | 1-249-425-11 | CARBON      | 4.7K   | 5%  | 1/4W   |
| R718     | 1-249-433-11 | CARBON      | 22K    | 5%  | 1/4W   |
| R719     | 1-249-436-11 | CARBON      | 39K    | 5%  | 1/4W   |
| R720     | 1-247-854-11 | CARBON      | 9.1K   | 5%  | 1/4W   |
| R721     | 1-249-437-11 | CARBON      | 47K    | 5%  | 1/4W   |
| △R725    | 1-219-135-11 | FUSIBLE     | 0.15   | 10% | 1/4W F |
| △R726    | 1-219-137-11 | FUSIBLE     | 0.33   | 10% | 1/4W F |
| R801     | 1-249-435-11 | CARBON      | 33K    | 5%  | 1/4W   |
| R802     | 1-249-422-11 | CARBON      | 2.7K   | 5%  | 1/4W   |
| R803     | 1-249-422-11 | CARBON      | 2.7K   | 5%  | 1/4W   |
| R804     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R805     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R806     | 1-249-417-11 | CARBON      | 1K     | 5%  | 1/4W   |
| R807     | 1-247-852-11 | CARBON      | 7.5K   | 5%  | 1/4W   |
| R808     | 1-249-427-11 | CARBON      | 6.8K   | 5%  | 1/4W   |
| R810     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R811     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R812     | 1-249-429-11 | CARBON      | 10K    | 5%  | 1/4W   |
| R813     | 1-249-436-11 | CARBON      | 39K    | 5%  | 1/4W   |
| R814     | 1-249-436-11 | CARBON      | 39K    | 5%  | 1/4W   |
| R815     | 1-249-435-11 | CARBON      | 33K    | 5%  | 1/4W   |

| Ref. No.              | Part No.     | Description                   | Remark         |     |        |
|-----------------------|--------------|-------------------------------|----------------|-----|--------|
| R817                  | 1-249-441-11 | CARBON                        | 100K           | 5%  | 1/4W   |
| R818                  | 1-249-417-11 | CARBON                        | 1K             | 5%  | 1/4W   |
| △R820                 | 1-212-954-11 | FUSIBLE                       | 6.8            | 5%  | 1/2W F |
| R821                  | 1-249-429-11 | CARBON                        | 10K            | 5%  | 1/4W   |
| R822                  | 1-249-429-11 | CARBON                        | 10K            | 5%  | 1/4W   |
| R823                  | 1-249-421-11 | CARBON                        | 2.2K           | 5%  | 1/4W   |
| R824                  | 1-249-426-11 | CARBON                        | 5.6K           | 5%  | 1/4W   |
| R825                  | 1-247-848-11 | CARBON                        | 5.1K           | 5%  | 1/4W   |
| R826                  | 1-249-429-11 | CARBON                        | 10K            | 5%  | 1/4W   |
| R827                  | 1-247-807-31 | CARBON                        | 100            | 5%  | 1/4W   |
| △R828                 | 1-212-952-00 | FUSIBLE                       | 5.6            | 5%  | 1/2W F |
| R829                  | 1-249-429-11 | CARBON                        | 10K            | 5%  | 1/4W   |
| R830                  | 1-249-429-11 | CARBON                        | 10K            | 5%  | 1/4W   |
| < VARIABLE RESISTOR > |              |                               |                |     |        |
| RV101                 | 1-241-765-11 | RES, ADJ, CARBON 22K          | (REC LEVEL, L) |     |        |
| RV102                 | 1-238-019-11 | RES, ADJ, CARBON 47K          | (REC EQ IV, L) |     |        |
| RV103                 | 1-241-765-11 | RES, ADJ, CARBON 22K          | (REC BIAS, L)  |     |        |
| RV121                 | 1-241-763-11 | RES, ADJ, CARBON 4.7K         | (PB LEVEL, L)  |     |        |
| RV201                 | 1-241-765-11 | RES, ADJ, CARBON 22K          | (REC LEVEL R)  |     |        |
| RV202                 | 1-238-019-11 | RES, ADJ, CARBON 47K          | (REC EQ IV, R) |     |        |
| RV203                 | 1-241-765-11 | RES, ADJ, CARBON 22K          | (REC BIAS, R)  |     |        |
| RV221                 | 1-241-763-11 | RES, ADJ, CARBON 4.7K         | (PB LEVEL, R)  |     |        |
| RV306                 | 1-223-387-21 | RES, ADJ, CARBON 330K         | (REC EQ IV)    |     |        |
| < TRANSFORMER >       |              |                               |                |     |        |
| T101                  | 1-433-344-11 | TRANSFORMER, BIAS OSCILLATION |                |     |        |
| T201                  | 1-433-344-11 | TRANSFORMER, BIAS OSCILLATION |                |     |        |
| T301                  | 1-423-614-11 | TRANSFORMER, BIAS OSCILLATION |                |     |        |
| < TEST PIN >          |              |                               |                |     |        |
| * TP301               | 1-564-506-11 | PLUG, CONNECTOR 3P            |                |     |        |
| * TP801               | 1-560-060-00 | PIN, CONNECTOR 2P             |                |     |        |
| * TP802               | 1-564-506-11 | PLUG, CONNECTOR 3P            |                |     |        |
| < VIBRATOR >          |              |                               |                |     |        |
| X801                  | 1-577-358-21 | VIBRATOR, CERAMIC (4MHz)      |                |     |        |
| *****                 |              |                               |                |     |        |
| *                     | 1-632-741-21 | REEL 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              | 1-568-945-11 | PIN, CONNECTOR 7P             |                |     |        |

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

# REEL MOTOR PANEL FL VOL

| Ref. No.       | Part No.              | Description                 | Remark       |
|----------------|-----------------------|-----------------------------|--------------|
| * CN1052       | 1-564-718-11          | PIN, CONNECTOR (SMALL TYPE) | 2P           |
| * CN1053       | 1-564-718-11          | PIN, CONNECTOR (SMALL TYPE) | 2P           |
| < RESISTOR >   |                       |                             |              |
| R1051          | 1-247-825-31          | CARBON                      | 560 5% 1/4W  |
| *****          |                       |                             |              |
| * A-2007-411-A | PANEL BOARD, COMPLETE |                             |              |
| *****          |                       |                             |              |
| FL BOARD       |                       |                             |              |
| *****          |                       |                             |              |
| VOL BOARD      |                       |                             |              |
| *****          |                       |                             |              |
| < CONNECTOR >  |                       |                             |              |
| CNP903         | 1-770-246-11          | SOCKET, CONNECTOR           | 41P          |
| * CNP907       | 1-568-824-11          | SOCKET, CONNECTOR           | 5P           |
| < DIODE >      |                       |                             |              |
| D901           | 8-719-987-63          | DIODE                       | 1N4148M      |
| D902           | 8-719-987-63          | DIODE                       | 1N4148M      |
| D903           | 8-719-987-63          | DIODE                       | 1N4148M      |
| < IC >         |                       |                             |              |
| IC901          | 8-741-810-59          | IC                          | SBX1810-59   |
| < RESISTOR >   |                       |                             |              |
| R153           | 1-249-425-11          | CARBON                      | 4.7K 5% 1/4W |
| R253           | 1-249-425-11          | CARBON                      | 4.7K 5% 1/4W |
| R362           | 1-249-429-11          | CARBON                      | 10K 5% 1/4W  |
| R901           | 1-247-838-00          | CARBON                      | 2K 5% 1/4W   |
| R902           | 1-249-422-11          | CARBON                      | 2.7K 5% 1/4W |
| R903           | 1-247-848-11          | CARBON                      | 5.1K 5% 1/4W |
| R904           | 1-249-429-11          | CARBON                      | 10K 5% 1/4W  |
| R905           | 1-247-866-11          | CARBON                      | 30K 5% 1/4W  |
| R906           | 1-249-422-11          | CARBON                      | 2.7K 5% 1/4W |
| R907           | 1-247-848-11          | CARBON                      | 5.1K 5% 1/4W |
| R908           | 1-249-429-11          | CARBON                      | 10K 5% 1/4W  |
| R909           | 1-247-866-11          | CARBON                      | 30K 5% 1/4W  |
| R910           | 1-247-836-11          | CARBON                      | 1.6K 5% 1/4W |
| R911           | 1-249-421-11          | CARBON                      | 2.2K 5% 1/4W |
| R912           | 1-247-844-11          | CARBON                      | 3.6K 5% 1/4W |
| R913           | 1-249-426-11          | CARBON                      | 5.6K 5% 1/4W |
| R914           | 1-249-430-11          | CARBON                      | 12K 5% 1/4W  |
| R915           | 1-249-441-11          | CARBON                      | 100K 5% 1/4W |
| R916           | 1-247-838-00          | CARBON                      | 2K 5% 1/4W   |
| R917           | 1-247-868-11          | CARBON                      | 36K 5% 1/4W  |

| Ref. No.              | Part No.     | Description                          | Remark |
|-----------------------|--------------|--------------------------------------|--------|
| < VARIABLE RESISTOR > |              |                                      |        |
| RV301                 | 1-241-820-11 | RES, VAR, CARBON 50K/50K (REC LEVEL) |        |
| RV302                 | 1-241-897-11 | RES, VAR, CARBON 50K/50K (BLANCE)    |        |
| RV303                 | 1-241-896-11 | RES, VAR, CARBON 10K (BIAS)          |        |
| RV304                 | 1-223-366-11 | RES, VAR, CARBON 5K/5K (REC LEVEL)   |        |
| < SWITCH >            |              |                                      |        |
| S901                  | 1-554-303-21 | SWITCH, TACTILE (▷)                  |        |
| S902                  | 1-554-303-21 | SWITCH, TACTILE (⏏)                  |        |
| S903                  | 1-554-303-21 | SWITCH, TACTILE (RESET)              |        |
| S904                  | 1-554-303-21 | SWITCH, TACTILE (MEMORY)             |        |
| S905                  | 1-554-303-21 | SWITCH, TACTILE (MONITOR)            |        |
| S906                  | 1-554-303-21 | SWITCH, TACTILE (■)                  |        |
| S907                  | 1-554-303-21 | SWITCH, TACTILE (◀◀)                 |        |
| S908                  | 1-554-303-21 | SWITCH, TACTILE (▶▶)                 |        |
| S909                  | 1-554-303-21 | SWITCH, TACTILE (●)                  |        |
| S910                  | 1-554-303-21 | SWITCH, TACTILE (○)                  |        |
| S911                  | 1-554-303-21 | SWITCH, TACTILE (CALIBRATION)        |        |
| S912                  | 1-554-303-21 | SWITCH, TACTILE (≡ OPEN/CLOSE)       |        |
| S921                  | 1-692-409-11 | SWITCH, PUSH (1 KEY) (POWER)         |        |
| S922                  | 1-554-118-00 | SWITCH, PUSH (1 KEY) (MPX FILTER)    |        |
| S923                  | 1-692-410-11 | SWITCH, ROTARY (DOLBY NR)            |        |
| < INDICATOR TUBE >    |              |                                      |        |
| VFD901                | 1-517-163-11 | INDICATOR TUBE, FLUORESCENT          |        |
| *****                 |              |                                      |        |
| MISCELLANEOUS         |              |                                      |        |
| *****                 |              |                                      |        |
| △9                    | 1-575-651-21 | CORD, POWER (AEP, G)                 |        |
| △9                    | 1-696-586-11 | CORD, POWER (UK)                     |        |
| 63                    | 1-769-406-11 | WIRE (FLAT TYPE) (41 CORE)           |        |
| 66                    | 1-751-734-11 | WIRE (FLAT TYPE) (5 CORE)            |        |
| 69                    | 1-690-880-31 | LEAD (WITH CONNECTOR)                |        |
| D1001                 | 8-719-980-85 | LED SLF325C                          |        |
| HE1001                | 1-543-673-11 | HEAD, MAGNETIC (ERASE)               |        |
| HRP1001               | 1-543-733-11 | HEAD, MAGNETIC (RECORD/PLAYBACK)     |        |
| M1051                 | X-3356-638-1 | MOTOR (REEL R) ASSY                  |        |
| M1052                 | X-3356-604-1 | MOTOR (ASSIST) ASSY                  |        |
| M1053                 | X-3356-646-1 | MOTOR (CAPSTAN V1) ASSY              |        |
| S1001                 | 1-466-238-11 | ENCODER, ROTARY                      |        |
| △T701                 | 1-423-476-21 | TRANSFORMER, POWER                   |        |
| *****                 |              |                                      |        |

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

| Ref. No. | Part No.     | Description                                                    | Remark |
|----------|--------------|----------------------------------------------------------------|--------|
|          |              | ACCESSORIES & PACKING MATERIALS                                |        |
|          |              | *****                                                          |        |
|          | 1-551-734-11 | CORD, CONNECTION                                               |        |
|          | 3-798-458-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH,<br>SPANISH) (AEP)        |        |
|          | 3-798-458-41 | MANUAL, INSTRUCTION (GERMAN, DUTCH,<br>SWEDISH, ITALIAN) (AEP) |        |
|          | 3-798-458-51 | MANUAL, INSTRUCTION (GERMAN) (G)                               |        |
|          | 3-798-458-61 | MANUAL, INSTRUCTION (ENGLISH) (UK)                             |        |
| *        | 3-907-887-01 | CUSHION                                                        |        |
| *        | 3-923-808-22 | INDIVIDUAL CARTON                                              |        |
|          |              | *****                                                          |        |
|          |              | *****                                                          |        |
|          |              | <b>HARDWARE LIST</b>                                           |        |
|          |              | *****                                                          |        |
| #1       | 7-685-871-01 | SCREW +BVTT 3×6 (S)                                            |        |
| #2       | 7-682-547-09 | SCREW +BVTT 3×6 (S)                                            |        |
| #3       | 7-685-134-19 | SCREW (+PTPWH) (2.6×8)                                         |        |
| #4       | 7-685-533-19 | SCREW +BTP 2.6×6 TYPE2 N-S                                     |        |
| #5       | 7-621-772-20 | SCREW +B 2×5                                                   |        |
| #6       | 7-621-255-20 | SCREW +BVTT 2×4 (S)                                            |        |
| #7       | 7-621-255-35 | SCREW +BVTT 2×5 (S)                                            |        |
| #8       | 7-685-132-19 | SCREW +BTP 2.6×5 TYPE2 N-S                                     |        |

