



# TEAC EGOTERIC

## SERVICE MANUAL

# DV-50

### DVD/DVD-A/SACD/CD PLAYER



TruSurround  
by SRS



#### NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- $\triangle$  Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.  
[J]: JAPAN [US]: U.S.A. [C]: CANADA [E]: EUROPE [UK]: U.K.  
[K]: KOREA

#### 注 意

- プリント基板図は部品面を示しています。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- $\triangle$ 印は安全重要部品です。交換する時は必ず指定の部品を使用してください。
- 仕向先  
[J]: JAPAN [US]: U.S.A. [C]: CANADA [E]: EUROPE [UK]: U.K.  
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# 1 SPECIFICATIONS

## 仕様

### General

|                                       |   |
|---------------------------------------|---|
| System .....                          | DVD-Video, DVD-Audio, DVD-R/RW,<br>Video-CD, SACD, CD and MP3 files   |
| Power supply .....                    | AC 120 V, 60 Hz (U.S.A./Canada model)<br>AC 230 V, 50 Hz (Europe/U.K. Model)<br>AC 220 V, 60 Hz (Korea Model) |
| Power consumption .....               | 34 W  |
| Weight .....                          | 21.2 kg (46-11/16 lbs)  |
| External dimensions (W x H x D) ..... | 442 x 157 x 354 mm<br>(17-3/8" x 6-3/16" x 13-15/16")   |
| Operating temperature .....           | +5 °C ~ +35 °C (40 °F ~ 95 °F)  |
| Operating humidity .....              | 5 % to 85 % (no condensation)   |
| Storage temperature .....             | -20 °C ~ +55 °C (-4 °F ~ 131 °F)  |

### Video Output

|                                    |                  |
|------------------------------------|------------------|
| S-Video output (S1/S2)             |                  |
| Y (luminance) - Output level ..... | 1 Vp-p (75 Ω)    |
| C (color) - Output level .....     | 286 mVp-p (75 Ω) |
| Jacks .....                        | S-VIDEO jack     |

### Video output (2 individual outputs)

|                    |               |
|--------------------|---------------|
| Output level ..... | 1 Vp-p (75 Ω) |
| Jacks .....        | RCA jack      |

### Component video output (Y, P<sub>B</sub>, P<sub>R</sub>)

|   |                 |
|---|-----------------|
| Y-Output level .....                                | 1.0 Vp-p (75 Ω) |
| P <sub>B</sub> , P <sub>R</sub> -Output level ..... | 0.7 Vp-p (75 Ω) |
| Jacks .....   | RCA jacks       |

### D1/D2 video output (U.S.A./Canada/Korea model)

|   |                 |
|---|-----------------|
| Y-Output level .....                                | 1.0 Vp-p (75 Ω) |
| P <sub>B</sub> , P <sub>R</sub> -Output level ..... | 0.7 Vp-p (75 Ω) |
| Jack .....  | D terminal      |

AV connector output (Europe/U.K. Model) .....SCART x 2  
This connector provides the video and audio signals for connection to a compatible color TV or monitor.

### Audio output (Analog Audio)

|                       |                                      |
|-----------------------|--------------------------------------|
| 2CH AUDIO OUT .....   | RCA jack x 2, 2.2 Vrms (1 kHz, 0 dB) |
| 5.1CH AUDIO OUT ..... | RCA jack x 1, 2.2 Vrms (1 kHz, 0 dB) |

### High Quality 2CH AUDIO OUT (XLR x1, RCA jack x1)

|           |                       |
|-----------|-----------------------|
| RCA ..... | 2.2 Vrms/47 kΩ (0 dB) |
| XLR ..... | 2.2 Vrms/600 Ω (0 dB) |

|   |                       |
|---|-----------------------|
| Frequency response .....                | 5 Hz ~ 80 kHz (-3 dB) |
| Dynamic range (1 kHz) .....             | 108 dB                |
| Total harmonic distortion (1 kHz) ..... | 0.001 %               |
| Crosstalk (1 kHz) .....                 | 110 dB                |

### Audio output (Digital Audio)

|               |   |
|---------------|---|
| OPTICAL ..... | Optical digital jack x 1, -15 ~ -21 dBm |
| COAXIAL ..... | RCA jack x 1, 0.5 Vp-p/75 Ω             |

### Accessories

- Power cord x 1
- Remote Control Unit (RC-908) x 1 (U.S.A./Canada model)
- Remote Control Unit (RC-887) x 1 (Europe/U.K. Model)
- Remote Control Unit (RC-884) x 1 (Korea Model)
- Batteries (AA, SUM-3) x 2
- Felt x 3
- Warranty card x 1
- Owner's manual x 1

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.

## SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is shown ①.

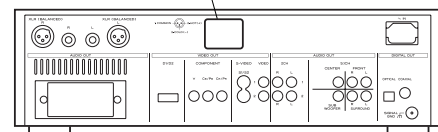
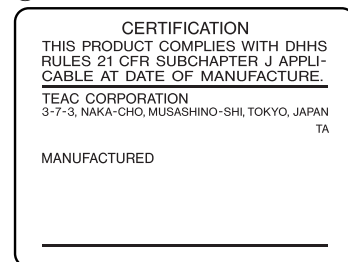
### ● CAUTION

USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

### Optical pickup:

|              |   |
|--------------|---|
| Type         | : OWY8007                                 |
| Manufacturer | : PIONEER CORPORATION                     |
| Laser output | : Less than 0.62 μW on the objective lens |
| Wavelength   | : 790±20 nm (CD), 650±10 nm (DVD)         |

① For U.S.A.



## 形式

DVDビデオ、DVDオーディオ、スーパーオーディオCD、CD、ビデオCD、DVD-RW、MP3ファイル

## 一般

電源 ..... 100V AC 50-60Hz  
消費電力 ..... 28W  
外形寸法(W x H x D) ..... 442mmx157mmx354mm  
質量 ..... 21.2kg  
許容動作温度 ..... +5°C~+35°C  
許容動作湿度 ..... 5%~85%(結露のないこと)  
許容保管温度 ..... -20°C~+55°C

## 映像出力

### S1/S2映像出力(2系統)

Y出力レベル ..... 1Vp-p(75Ω)  
C出力レベル ..... 286mVp-p(75Ω)  
出力端子 ..... S端子

### 映像出力(2系統)

出力レベル ..... 1Vp-p(75Ω)  
出力端子 ..... RCA端子

### コンポーネント映像出力(Y、Cb/Pb、Cr/Pr)

Y出力レベル ..... 1Vp-p(75Ω)  
Cb/Pb、Cr/Pr出力レベル ..... 0.7Vp-p(75Ω)  
出力端子 ..... RCA端子

### D1/D2端子(Y、Cb/Pb、Cr/Pr)

Y出力レベル ..... 1Vp-p(75Ω)  
Cb/Pb、Cr/Pr出力レベル ..... 0.7Vp-p(75Ω)  
出力端子 ..... D端子

## 音声出力

アナログ音声出力端子(2チャンネル、RCA2系統)および

5.1ch音声出力端子(5.1チャンネル、RCA1系統)

最大出力レベル ..... 2.2Vrms(1kHz、フルスケール)  
規定出力レベル ..... 220mVrms(1kHz、フルスケール-20dB)

2ch高品位アナログ音声出力端子

(2チャンネル、RCA1系統+XLR1系統)

最大出力レベル

RCA : 2.2Vrms/47kΩ(フルスケール)

XLR : 2.2Vrms/600Ω(フルスケール)

規定出力レベル

RCA : 220mVrms/47kΩ(フルスケール-20dB)

XLR : 220mVrms/600Ω(フルスケール-20dB)

2ch高品位アナログ音声出力端子・出力特性(FIRモード時)

周波数特性 ..... 5Hz~80kHz(-3dB)

ダイナミックレンジ(1kHz) ..... 108dB

歪率(1kHz) ..... 0.001%

クロストーク(1kHz) ..... 110dB

## デジタル出力

光デジタル出力 ..... 光デジタル端子×1、-15~-21dBm

同軸デジタル出力 ..... RCA端子×1、0.5Vp-p/75Ω

## 付属品

電源コード×1

リモコン(RC-884)×1

リモコン用乾電池(単3)×2本

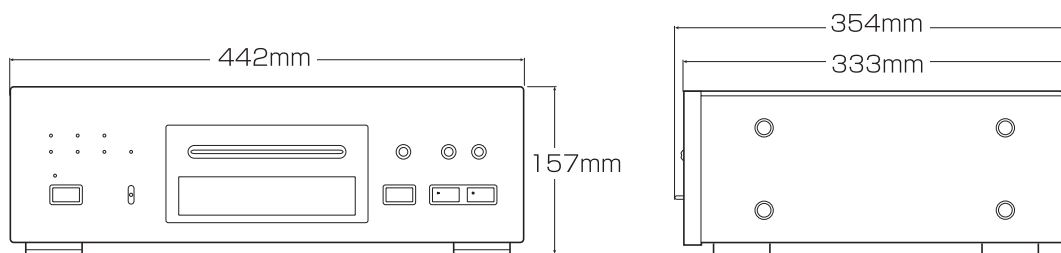
フェルト×3枚

取扱説明書×1

御愛用者カード×1

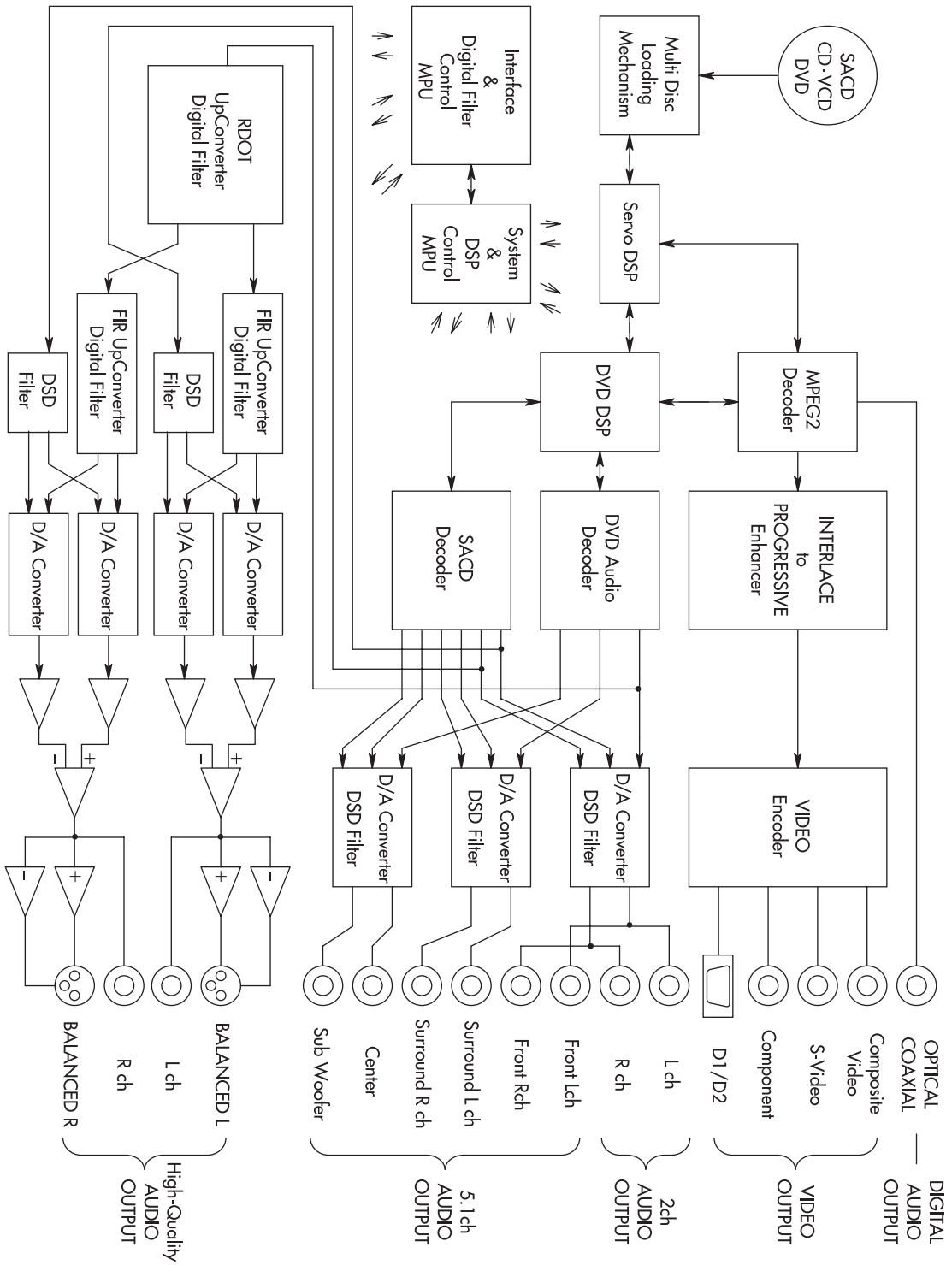
JEITAは電子情報技術産業協会規格に定められた測定法によるものです。

仕様および外観は、改善のため予告なく変更することがあります。



# 2 BLOCK DIAGRAM

ブロックダイアグラム



# 3 ADJUSTMENT AND SETTING

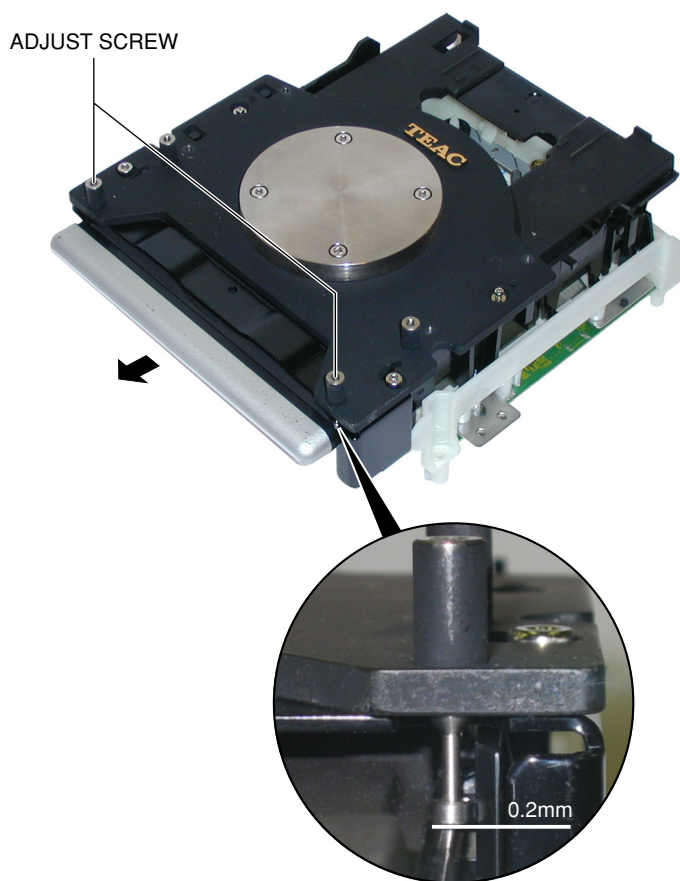
## 調整と設定

### 3-1 Tray Adjustments

1. Pull halfway out the tray by rotating the pulley situated under the Loading Mechanism Assy.
2. Turn the two adjust screws (one at left and one at right) for a clearance of 0.2mm between the tray's guide and adjust screws at around the center of the tray.
3. After completion of adjustments, apply screw locking agent to the adjust screws.

### 3-1 トレイ調整

1. LOADING MECHANISM ASSY下部のプーリーを回して、トレイを半分程引き出す。
2. トレイ中央付近で、トレイのガイド部と調整ネジとの隙間が0.2mmになるよう調整ネジ（左右2ヶ所）を回す。
3. 調整後、ネジロックを塗布する。



#### Initialize the Focus Sweep Setting

To set the sweep which was correct with the individual Traverse mechanism, be sure to perform this step when replaced the Traverse mechanism.

1. Hold down the STOP button on the main unit and press the POWER button.

OR

1. Switch on power to the main unit.
2. Press **1** → **2** → ESC → CLEAR in order on the remote control unit RC-627 (refer to page 7).

#### フォーカススイープ設定の初期化

個々のトラバースメカに合ったスイープを設定するため、トラバースメカを交換した時は必ず実行すること

1. 本体のSTOPボタンを押しながらPOWERボタンを押す。  
または
1. 本体の電源を入れる。
2. リモコンRC-627（7ページ参照）の **1** → **2** → ESC → CLEARキーを順に押す。

### 3-2 Service Mode

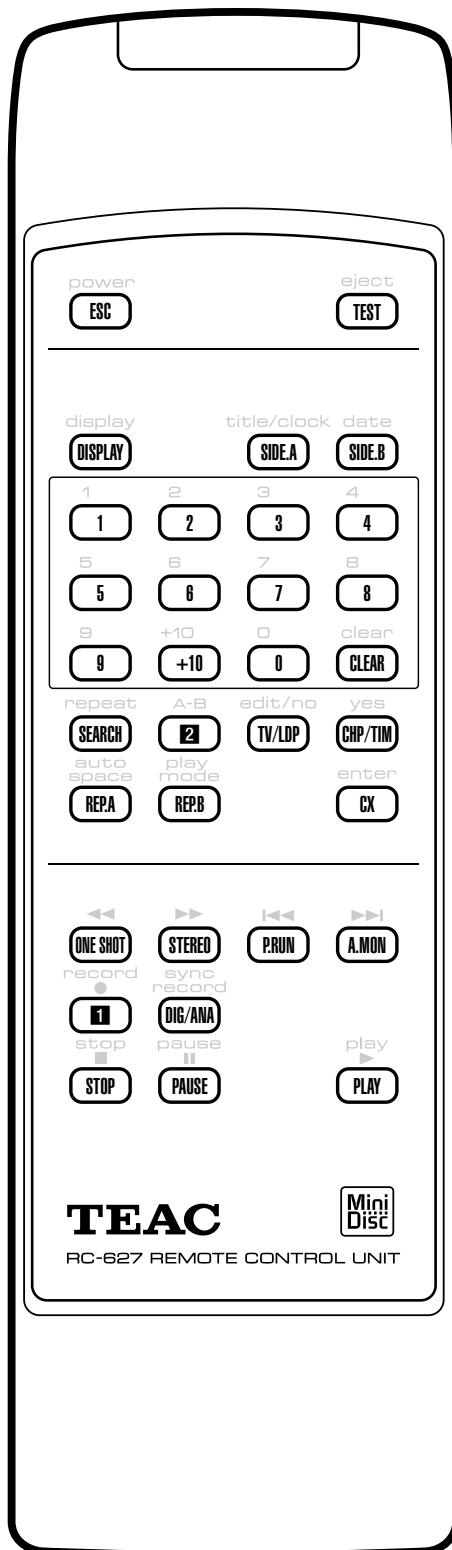
The remote control unit RC-627 (Part Number: E00301900A) runs in service mode when pressing **1** → **2** in order. This mode is used in this chapter and in "4 TEST MODE". As for key names used in the service mode, refer to the illustration below.

- Pressing **1** while in service mode displays the front microcomputer version number in the FL display. To get the display disappeared, press **1** again.
- The service mode is in effect until the main unit is turned off.

### 3-2 サービスモード

リモコンRC-627 (品番 : E00301900A) の **1** → **2** キーを順に押すと、サービスモードとして機能します。このモードは、本章および "4 テストモード" で使用します。サービスモードでのキー名称は下図を参照してください。

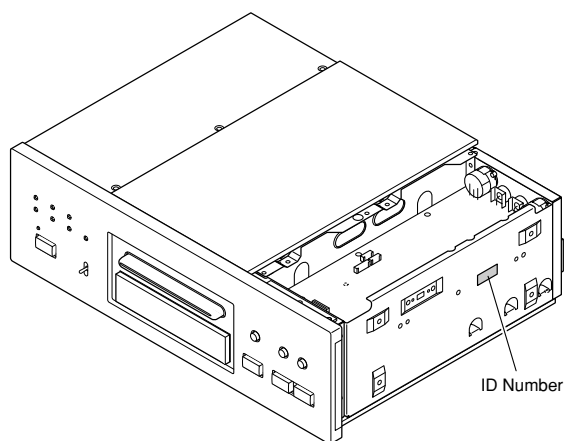
- サービスモードに入ってる状態で再度 **1** キーを押すと、フロントマイコンのバージョンがFLに表示されます。バージョン表示を消すには、もう一度 **1** キーを押してください。
- サービスモードは本体の電源を切るまで有効です。



### 3-3 ID Number and ID Data Setting

#### Entering the ID Number and ID Data for Players with DVD-Audio Compatibility

It is necessary with a player with DVD-audio compatibility to set an individual number (ID number) and ID data. If the number and data are not set correctly with the following procedure, operations in the future may not be guaranteed. You will find the ID number to be set on the label on the Side Chassis R.



**Important: If no white label is found on the Side Chassis R, write down the specified ID number by checking it according to "How to Confirm the ID Number" shown below.**

#### The Input is Necessary When:

- DVDM PCB ASSY is replaced.
- Downloading FLASH-ROM is finished.
- "No ID Number" is displayed on the screen or FL display immediately after the power is turned on or in Stop mode.
- If "No ID DATA" is displayed, the ID data must be entered.

#### Creating ID Data Disc

Download an image file of ID data disc off the TEAC Service Web Site and write it to a CD-R using a commercially available writing tool.

Care should be taken over security for ID data.

### 3-3 IDナンバーおよびIDデータ設定

#### DVDオーディオ対応プレーヤーのIDナンバーおよびIDデータ入力について

DVDオーディオ対応プレーヤーではDVDオーディオディスク再生のために、各プレーヤー毎に個別の番号 (IDナンバー) とIDデータを設定する必要があります。この番号とデータを、以下の手順で正しく設定しないと、将来にわたる動作保証ができなくなります。IDナンバーはSIDE CHASSIS Rのラベルに書いてあります。

**重要: SIDE CHASSIS Rに白いラベルがない場合は、FLASH ROMのダウンロード前に "IDナンバーの確認方法" に従って、設定されているIDナンバーを書き留めておいてください。**

#### 入力が必要な場合

- DVDM PCB ASSYを交換したとき
- FLASH ROMのダウンロード後
- 電源投入直後または停止中に、画面上またはFL管に "No ID Number" と表示される場合
- "No ID DATA" と表示される時は、IDデータの入力が必要です。

#### IDデータディスクの作成

TEACサービスWebサイトからIDデータディスクのイメージファイルをダウンロードし、市販のライティングソフトを使って、CD-Rに書き込んでください。

IDデータの取り扱いには十分注意してください。

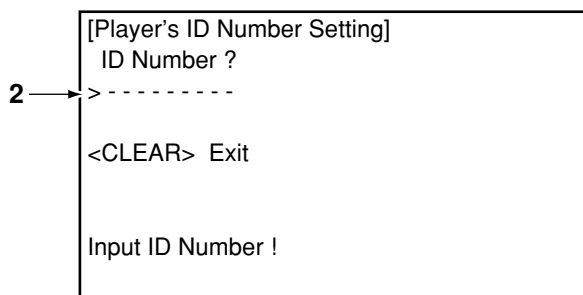




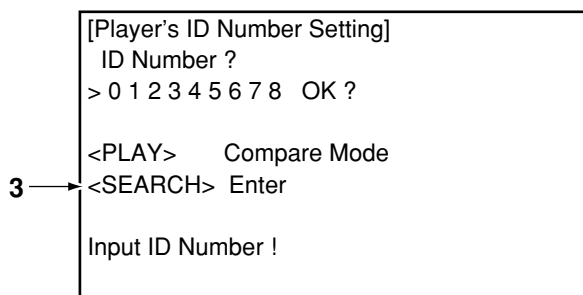
## How to Input the ID Number and ID Data

- Be sure to enter the ID number in Stop mode.
- Use the remote control unit RC-627 for operations. Only opening/closing of the tray are performed from the player.

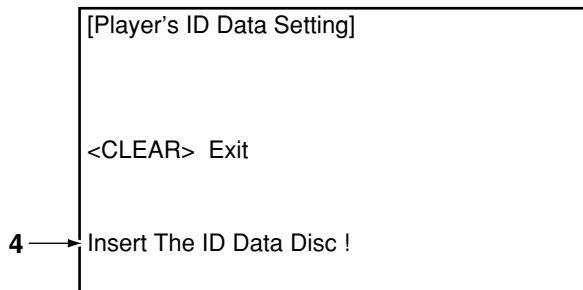
1. To enter the input mode, press ESC + STEREO in a status with no ID number set, such as after FLASH-ROM downloading.
2. As number input is enabled when the unit enters the input mode, input the 9-digit ID number.  
(The entered number is also displayed on the FL display.)



3. After inputting the number, press SEARCH to register the ID number.



4. When the ID number has been registered, the unit enters the ID data input mode. (The FL display indicates "NO ID DATA") In this condition, place the ID data disc on the tray and close the tray using the OPEN/CLOSE button on the player.



## IDナンバーおよびIDデータの入力方法

- IDナンバー入力は停止中に行ってください。
- 操作は全てリモコンRC-627で行います。但し、トレイの開閉は本体のOPEN/CLOSEボタンで行います。

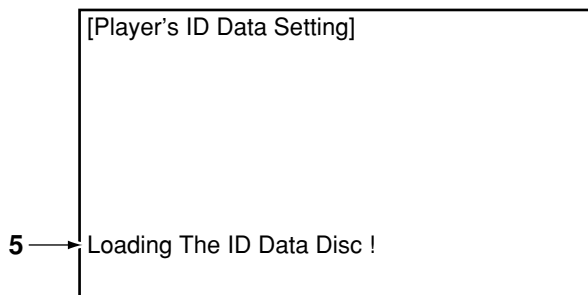
1. 入力モードに入るには、ダウンロード後などのIDナンバーが何も設定されていない状態でESC + STEREOキーを押す。
2. 入力モードに入ると数字が入力できる状態になるので、9桁のIDナンバーを入力する。(FL管に表示される。)

3. 数字入力後SEARCHキーを押すと、IDナンバーが設定される。

4. IDナンバーが設定されると、IDデータ入力状態になる。(FL管には "IN ID DATA" と表示される。) この状態でIDデータディスクをディスクトレイに載せ、本体のOPEN/CLOSEボタンでディスクトレイを閉じると、データを読み込む。

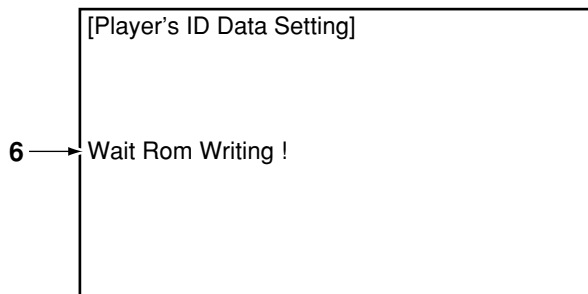
5. While the data are being read, the message shown in the following figure is displayed on the screen.  
(The FL display indicates "RD ID DATA")

5. データ読み込み中は下記のようなメッセージが画面上に表示される。(FL管には "RD ID DATA" と表示される。)



6. When the ID data have been read, the data are written to the FLASH-ROM. (The FL display indicates "WR ID DATA.")

6. IDデータを読み込むと、データはFLASH ROMに書き込まれる。(FL管には "WR ID DATA" と表示される。)

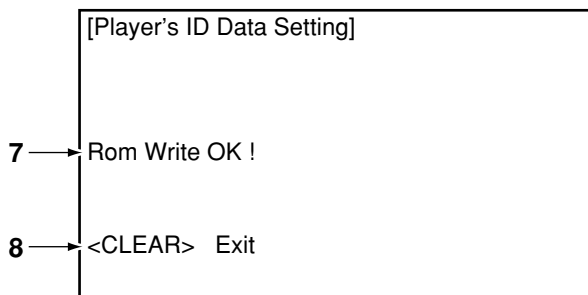


7. When the ID data have been written to the FLASH-ROM, the message "Rom Write OK" is displayed on the screen.  
(The FL display indicates "ID DATA OK.")

7. FLASH ROMへの書き込みが終了すると画面上に "Rom Write OK!" と表示される。  
(FL管には "ID DATA OK" と表示される。)

8. After confirming this message, press CLEAR to exit the input mode.

8. この表示を確認したらCLEARキーを押し、設定モードを終了する。



## How to Confirm the ID Number

1. Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.
2. The set ID number is displayed on the screen (and on the FL display), permitting you to confirm it.
3. To exit this mode, press CLEAR.

## IDナンバーの確認方法

1. IDナンバーが設定されている状態でESC + STEREOキーを押すとIDナンバー確認モードに入る。
2. 設定されているIDナンバーが表示されるので、ここで確認することができる。(FL管にも表示される。)
3. このモードから抜けるには、CLEARキーを押す。

```
[Player's ID Number Setting]
ID Number ?
[ 0 1 2 3 4 5 6 7 8]
Compare
> *****
3 → <CLEAR> Exit
Input ID Number !
```

## How to Clear the ID Number

1. Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.
2. Input the same number as the ID number you have set.

## IDナンバー消去方法

1. IDナンバーが設定されている状態でESC + STEREOキーを押すとIDナンバー確認モードに入る。
2. 設定されているIDナンバーと同じ数字を入力する。

```
[Player's ID Number Setting]
ID Number ?
[ 0 1 2 3 4 5 6 7 8]
Compare
2 → > *****
<CLEAR> Exit
Input ID Number !
```

3. After inputting the number, press STOP.  
Only when the entered number matches the set ID number, the ID number is cleared and the unit exits this mode.  
If the numbers do not match, you must return to step 2.  
(STOP is not accepted until 9 digits are entered.)

3. 数字入力後、STOPキーを押す。  
入力した数字と設定されているIDナンバーが一致した場合だけIDナンバーを消去し、このモードを抜ける。  
数字が一致しない場合は、2項へ戻る。  
(9桁入力するまではSTOPキーを受け付けない。)

```
[Player's ID Number Setting]
ID Number ?
[ 0 1 2 3 4 5 6 7 8]
Compare
> 0 1 2 3 4 5 6 7 8 OK ?
3 → <STOP> Memory Clear
Input ID Number !
```

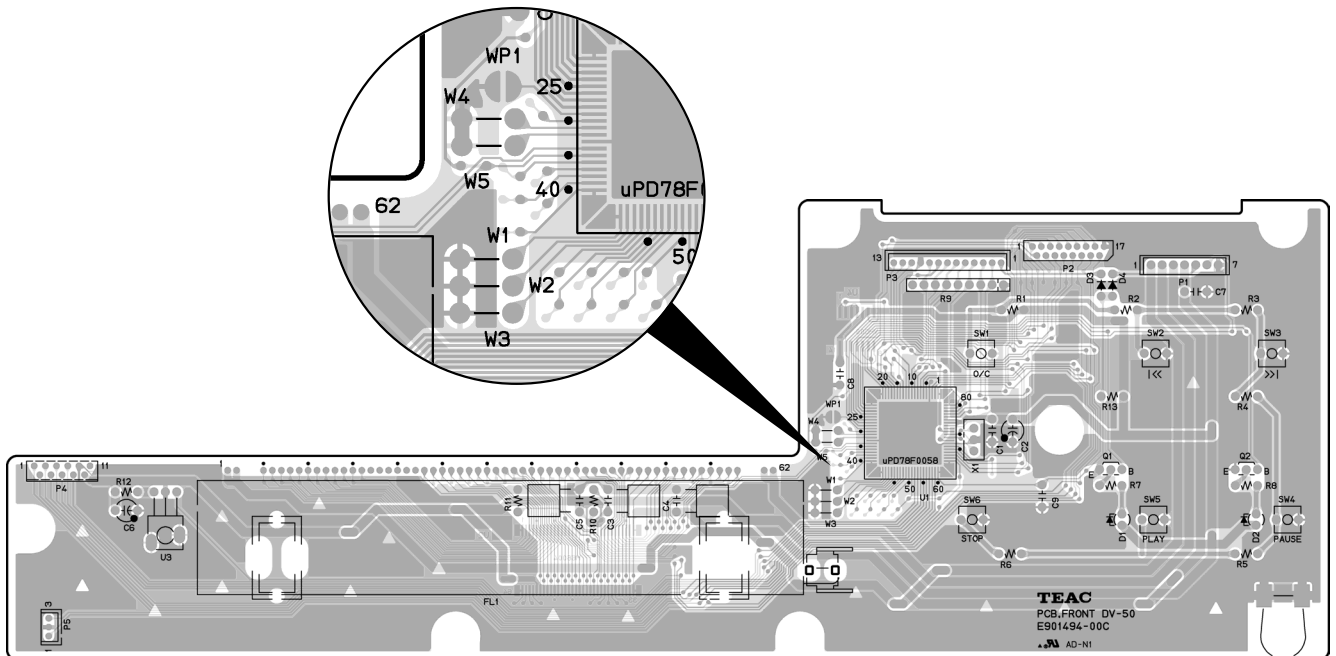
### 3-4. Region Setting (only for EUR and KOR)

1. Hold down the STOP button on the main unit and press the POWER button.
  2. Press **1** → **2** in order on the remote control unit RC-627 to run in service mode.
  3. Press 2 on the remote control unit for Region 2 (EUR) or 3 for Region 3 (KOR).
- For DM and T/C, only jumper settings are available for setting for Region 2 and Region 1, respectively.

### 3-4 リージョン設定 (EUR, KORのみ)

1. 本体のSTOPボタンを押しながらPOWERボタンを押す。
  2. リモコンRC-627の **1** → **2** キーを順に押して、サービスモードにする。
  3. リモコンの2キーを押すとリージョン2 (EUR)、3キーを押すとリージョン3 (KOR) に設定される。
- DMとT/Cはジャンパー設定のみで、リージョン2、リージョン1にそれぞれ設定されます。

| JUMPER WIRE | DM | T/C | EUR | KOR |
|-------------|----|-----|-----|-----|
| W1          | ×  | ○   | ×   | ×   |
| W2          | ×  | ×   | ×   | ○   |
| W3          | ×  | ×   | ○   | ×   |
| W4          | ×  | ×   | ×   | ×   |
| W5          | ×  | ×   | ×   | ×   |



# 4 TEST MODE

## テストモード

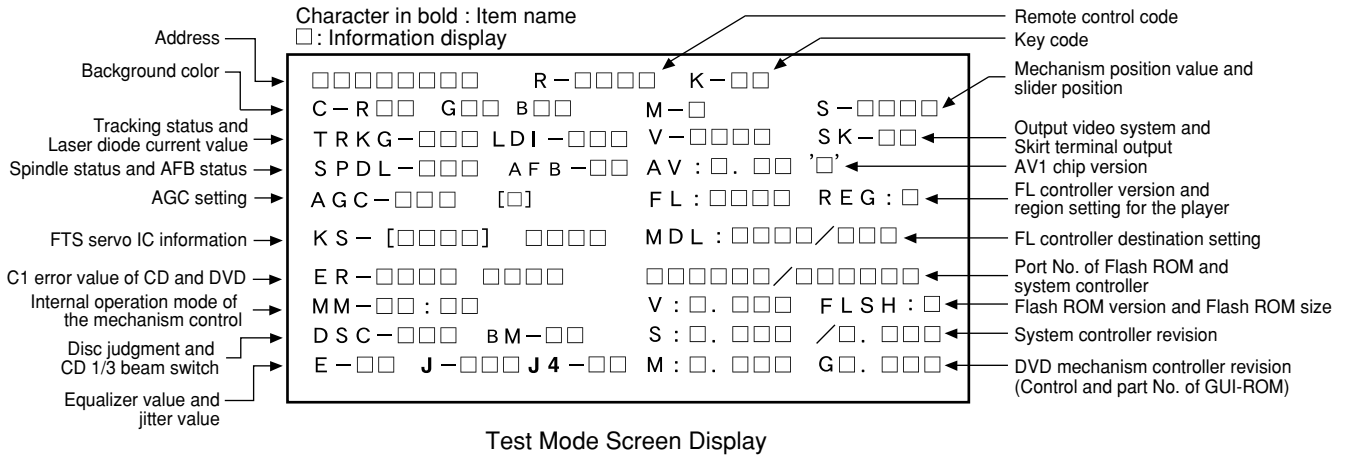
### 4-1 Test Mode Screen Display

When the test mode is entered, press the ESC key and the TEST key in order of the remote control unit RC-627 (refer to page 7).

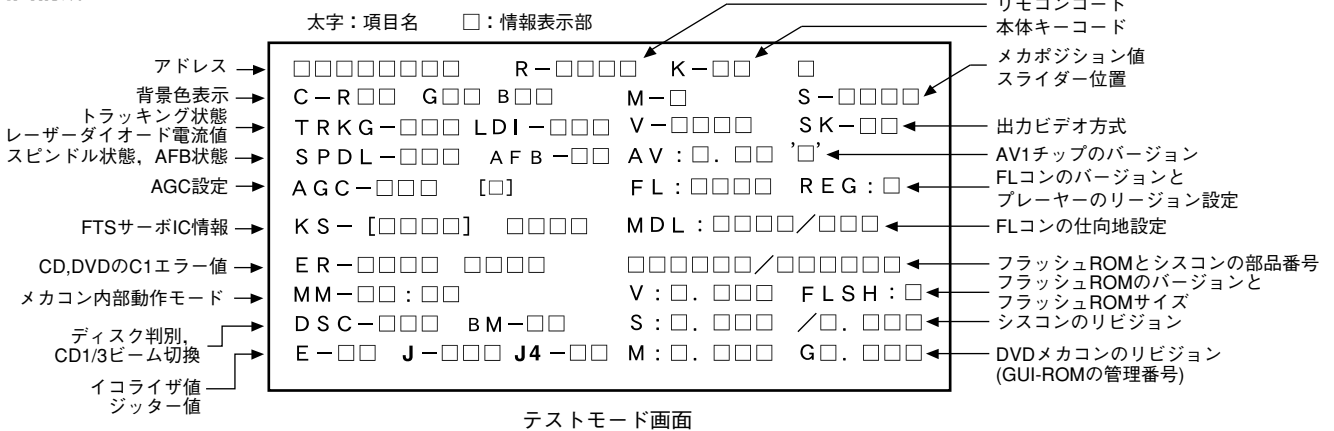
### 4-1 テストモード表示仕様

本機をテストモードに入れるには、リモコンRC-627（7ページ参照）のESC → TESTキーを順に押してください。

#### Screen Composition



#### 画面構成



#### Description of Each Item on the Display

##### (1) Address indication

The address being traced is displayed in number.

DVD : ID indication (hexadecimal number, 8 digits)

[\*\*\*\*\*]

CD : A-TIME (min. sec.) [0000\*\*\*\*\*]

(Note : For DVDs, decimal-number indication is possible.)

##### (2) Code indication of the remote control unit [R-\*\*\*\*\*]

The code for the key pressed on the remote control unit, which is received by the FL controller, is displayed while the key is pressed. In the case of the double code, the second code will be displayed.

#### 項目別表示内容説明

##### (1) アドレス表示

現在トレースしているアドレスを数字で表示する。

DVD : ID表示(16進8桁) [\*\*\*\*\*]

CD : A-TIME(分秒) [0000\*\*\*\*\*]

(※DVDは、10進表示可)

##### (2) リモコンコード表示 [R-\*\*\*\*\*]

FLコンが受けているリモコンのコードを、押している期間表示する。二重コードの場合は、2ndコードを表示する。

- (3) **Key code indication for the main unit** [K- \*\*]  
The code for the key pressed on the main unit, which is received by the system controller, is displayed while the key is pressed.
- (4) **Background color indication** [C-R\* \*G\* \*B\* \*]
- (5) ① **Tracking status** [TRKG- \*\* \*]  
Tracking on [ON ]  
Tracking off [OFF ]  
② **Laser diode current value** [LDI- \*\* \*]
- (6) ① **Spindle status** [SPDL- \*\* \*]  
Spindle accelerator and brake, free-running [A/B]  
FG servo [FG ]  
Rough, velocity phase servo [SRV]  
Offset addition, rough, velocity phase servo [O-S]  
② **AFB status** [AFB- \*\* \*]  
ON [ON]  
OFF [OFF ]
- (7) **Mechanism position value** [M- \*]  
Position code [1] to [3]
- (8) **Slider position** [S- \*\* \* \*]  
CD TOC area [IN ]  
CD active area [CD ]
- (9) **AGC setting** [AGC- \*\* \*]  
AGC on [AGC-ON]  
AGC off [AGC-OFF ]
- (10) **Output video system** [V- \*\* \* \*]  
NTSC system [NTSC]  
PAL system [PAL ]  
Auto-setting [AUTO]  
**Skirt terminal output** [SK- \*\* \*]  
VIDEO [00]  
S-VIDEO [01]  
RGB [02]  
Note : Display only the model which can do the output setting of skirt terminal.
- (11) **FTS servo IC information**  
DSP coefficient indication [KS-[\*\* \*\*] \*\* \*\*]  
Displays the address (four digits) of the specified coefficient and the setting value (four digits) with TEST and 9 keys.
- (12) **Error rate indication**  
① C1 error value of CD [ER- C1 \*\* \*\* ]  
② C1 error value of DVD [ER- \*\* \*\* \*\* \*\* \*\* \*\* \*\* ]
- (13) **Internal operation mode of mechanism controller** [MM- \*\* : \*\* \*]  
Internal mechanism mode (2 digits) and internal mechanism step (2 digits) of the mechanism controller
- (3) **本体キーコード表示** [K- \*\*] \*  
シスコンが受けている本体スイッチのキーコードを、押している期間表示する。  
右の数字はFLコンからのキーナンバー
- (4) **背景色表示** [C-R\* \*G\* \*B\* \*]
- (5) ① **トラッキング状態** [TRKG- \*\* \*]  
トラッキング オン [ON ]  
トラッキング オフ [OFF ]  
② **レーザーダイオード電流値** [LDI- \*\* \*]
- (6) ① **スピンドル状態** [SPDL- \*\* \*]  
スピンドル・アクセル&ブレーキ [A/B]  
FGサーボ [FG ]  
ラフ、速度・位相サーボ [SRV]  
オフセット加算、ラフ、速度・位相サーボ [O-S]  
② **AFB状態** [AFB- \*\* \*]  
ON [ON]  
OFF [OFF ]
- (7) **メカポジション値** [M- \*]  
位置コード [0]~[8]
- (8) **スライダー位置** [S- \*\* \* \*]  
CD TOCエリア [IN ]  
CDアクティブエリア [CD ]  
CDVビデオエリア [CDV ]
- (9) **AGC設定** [AGC- \*\* \*] [\*]  
AGCオン [AGC-ON]  
AGCオフ [AGC-OFF ]  
RF AGCオン [1]  
RF AGCオフ [0]
- (10) **出力ビデオ方式** [V- \*\* \* \*]  
NTSC方式 [NTSC]  
PAL方式 [PAL ]  
自動設定 [AUTO]
- (11) **FTSサーボIC情報表示**  
DSP係数表示 [KS-[\*\* \*\*] \*\* \*\*]  
TEST+9キーで、指定した係数のアドレス(4桁)とその設定値(4桁)
- (12) **エラーレート表示**  
①CDのC1エラー値 [ER- C1 \*\* \*\* ]  
②DVDのC1エラー値 [ER- \*\* \*\* \*\* \*\* \*\* \*\* ]
- (13) **メカコンの内部動作モード** [MM- \*\* : \*\* \*]  
メカコンの内部メカモード(2桁)と内部メカステップ(2桁)

- (14) ① **Disk sensing** [DSC-\*\*\*]  
The type of discs loaded is displayed.  
[DVD], [CD ], [VCD], [ ]
- ② **CD 1/3 beam switch** [BM-\*\*\*]
- (15) ① **Equalizer value** [E-\*\*\*]  
② **Jitter value** [J-\*\*\*]  
Make the jitter four times, and renew it in every 0.5 second. [J4-\*\*\*]  
CD is effective only in the jitter value.
- (16) **Version of the AV-1 chip** [AV: \*.\*'\*\*\*']
- (17) ① **Version of the FL controller** [FL:\*\*\*\*]  
② **Region setting of the player** [REG:\*]  
Setting value [1] to [6]
- (18) **Destination setting of the FL controller**  
[MDL:\*\*\*\*/\*\*\*\*]  
Four characters in the front represent the type of model :  
three characters in the back represent the destination code.  
J : /J, K : /KU, /KC, /KU/KC, R : /RAM, /RL, /RD, /LB,  
WY : /WY
- (19) **The part number of the flash ROM and system controller** [\*\*\*\*\*/\*\*\*\*\*]  
① Part number of the flash ROM <Front>  
(Example) VYW1536-A = W1536A  
(Example) PD6256A9 = 6256A9  
② Part number of the system controller <Back>  
(Example) PD3381T1 = 3381T1
- (20) ① **Version of the flash ROM** [V:\*\*\*\*]  
② **Flash ROM size** [FLSH=\*]
- (21) **Revision of the system controller**  
[S:\*.\*\*\* /\*.\*\*\* ]  
① Revision number of the external ROM part (flash ROM) of the system controller <Front>  
② Revision of the internal ROM part of the system controller <Back>
- (22) **Revision of the DVD mechanism controller** [M:\*.\*\*\*]  
Revision number of the external ROM part (flash ROM) of the DVD mechanism controller
- (23) **Control and part numbers of the GUI-ROM** [GUI:\*\*\*\*]  
No GUI model displays as "— / —".  
OEM model displays the part number of GUI-ROM  
[GUI:\*\*\*\*]
- (14) ① **ディスク判別** [DSC-\*\*\*]  
セットしたディスクの種別を表示する  
[DVD], [CD ], [CDV], [VCD], [ ]
- ② **CD1/3ビーム切替え** [BM-\*\*\*]
- (15) ① **イコライザ値** [E-\*\*\*]  
② **ジッター値** [J-\*\*\*]  
ジッター値を4倍し、0.5秒毎に更新 [J4-\*\*\*]  
CDはジッター値のみ有効
- (16) **AV1チップのバージョン** [AV: \*.\*'\*\*\*']
- (17) ① **FLコンのバージョン** [FL:\*\*\*\*]  
② **プレーヤーのリージョン設定** [REG:\*]  
設定値 [1]~[6]
- (18) ① **FLコンの仕向地設定** [MDL:\*\*\*\*/\*\*\*\*]  
前の4文字はモデル種別  
後の3文字は仕向地コード  
J:/J, K:/KU, /KC, /KU/KC,  
R:/RAM/RL/RD/LB, WY:/WY
- (19) **フラッシュROMとシスコンの部品番号**  
[\*\*\*\*\*/\*\*\*\*\*]  
①フラッシュROMの部品番号 <前>  
(例) VYW1536-A → W1536A  
(例) PD6256A9 → 6256A9  
②シスコンの部品番号 <後>  
(例) PD3381T1 → 3381T1
- (20) ① **フラッシュROMのバージョン** [V:\*\*\*\*]  
② **フラッシュROMサイズ** [FLSH=\*]
- (21) **シスコンのリビジョン** [S:\*.\*\*\* /\*.\*\*\* ]  
①シスコン外部ROM部(フラッシュROM)のリビジョン番号 <前>  
②シスコン内部ROM部のリビジョン <後>
- (22) **DVDメカコンのリビジョン** [M:\*.\*\*\*]  
DVDメカコン外部ROM部(フラッシュROM)のリビジョン番号
- (23) **GUI-ROMの管理番号** [GUI:\*\*\*\*]  
GUI無しモデルでは、“— / —” と表示する。

## 4-2 Self-Diagnostic Function of Pickup Defective

This unit can confirm the laser diode current value (DVD: 650nm, CD: 780nm) of pickup on the Test Mode screen.

(Press the ESC → TEST keys in order on the remote control unit RC-627 to enter the test mode.)

It's effective in case of the following condition.

### Symptom

- Indicates "No Disc" in FL display.
- Player does not playback, etc..

### Procedure of Self-Diagnosis

1. Enter the Test mode.
2. When diagnosing the 650nm laser diode:  
Press the TEST → 1 keys in order, and turn on the laser diode (It light-up for nine seconds.)  
When diagnosing the 780nm laser diode:  
Press the TEST → 4 keys in order, and turn on the laser diode (It light-up for nine seconds.)  
  
When let it turn on once again after performed step 2 once,  
After pressed REP.B key once  
650nm: Press the TEST → 1 keys in order  
780nm: Press the TEST → 4 keys in order
3. Confirm the indicated value of the laser diode current (LDI).  
(Refer to following figure.)
4. **When indicated value is more than 100, pickup is defective.**  
**→ Replacement is necessary**  
Replace the Traverse Mechanism Assy.

- When a DVD disc or a CD disc is played in the test mode, this function is effective.

## 4-2ピックアップ不良自己診断機能

本機はテストモード画面でピックアップのレーザーダイオード電流値 (DVD : 650nm, CD : 780nm) をそれぞれ確認することができます。

(本機をテストモードに入れるには、リモコンRC-627のESC → TESTキーを順に押してください。)

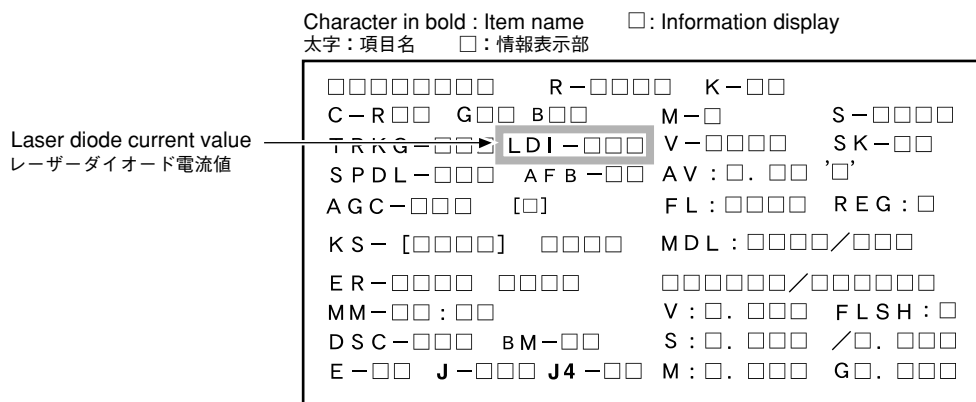
下記の症状時に有効です。

### 症状

- FLに "No Disc" と表示する時がある
- PLAYしない、など

### 自己診断方法

1. テストモードに入れる。
  2. 650nmレーザーダイオードを診断する場合はTEST → 1キーを順に押し、レーザーダイオードを点灯させる。(9秒間点灯)  
780nmレーザーダイオードを診断する場合はTEST → 4キーを順に押し、レーザーダイオードを点灯させる。(9秒間点灯)  
  
2項を1回行った後に再び点灯させる場合は、1度REP.Bキーを押した後に  
650nmはTEST → 1キーを順に押す  
780nmはTEST → 4キーを順に押す
  3. レーザーダイオード電流 (LDI) 表示値を確認する。(下図参照)
  4. **表示値が100以上ならピックアップ不良 → 要交換**  
トラバースメカを交換してください。
- テストモードでDVDディスク、CDディスクを再生しているときにも有効です。



Test Mode Screen Display  
テストモード画面



## 4-3 Debugging Screen Specification for the Mechanism Controller

- This specifications is subject to change without notice.

### Indication Method of the Mechanism Controller Debugging Screen

- A debugging screen of the mechanism controller is indicated when pressing the remote control unit RC-627 in order of the ESC and CHP/TM keys.
- Release from debugging screen display of the mechanism controller with the ESC key.

### Screen Layout

|     |    |    |           |    |    |       |         |    |     |    |     |    |    |   |    |   |    |
|-----|----|----|-----------|----|----|-------|---------|----|-----|----|-----|----|----|---|----|---|----|
| E R | 1  | >  | 2         |    |    |       | 3       |    | 4   |    |     |    |    |   |    |   |    |
| M   | 5  | 5  | 5         | 5  | 5  | 5     | 5       | 5  | 5   | 5  |     |    |    |   |    |   |    |
| S   | 6  | 6  | 6         | 6  | 6  | 6     | 6       | 6  | 6   | 6  |     |    |    |   |    |   |    |
|     | 7  |    | 8         | cm | 22 | rpm   | S G C : | 10 | -   | 11 | -   | 12 |    |   |    |   |    |
|     | 13 |    | 14        |    | 15 |       | J -     | 16 | 0 - | 17 | 1 - | 18 |    |   |    |   |    |
| M   | 19 | 19 | 19        | 19 | 19 | 19    | 19      | 19 | 19  | 19 | 19  | 19 |    |   |    |   |    |
| S   | 20 | 20 | 20        | 20 | 20 | 20    | 20      | 20 | 20  | 20 | 20  | 20 |    |   |    |   |    |
| S : | 21 |    | O E I C : | 9  | 23 | B M - | 24      |    |     |    |     |    |    |   |    |   |    |
| F   | 25 | -  | 26        | I  | 27 | T     | 28      | -  | 29  | S  | 30  | -  | 31 | R | 32 | C | 33 |
|     | 34 |    |           |    |    |       |         |    |     |    |     |    |    |   |    |   | 35 |

### Indication Contents

- The error that became the trigger that an error of 2 occurred.**  
There are many cases same as 2.
- The error number that transferred to the system controller**  
Refer to the error list about contents of error number.
- Code read in state (it does not support in this unit)**  
When X is indicated, ID or subcode are not able to read in.  
When X is not indicated, they are able to read in.
- ID or subcode (it does not support in this unit)**  
Subcode indicates the A time.
- Inside mode of the mechanism controller when an error of 1 occurred**  
It can indicate to a maximum 10 mode. Indicate it in order of an old mode from the left, and go right, and become a new mode. Indicate only a nest share of the mode.

## 4-3 メカコン用デバッグ画面仕様

- この仕様は予告なく変更されることがあります。

### メカコンデバッグ画面の表示方法

- メカコンのデバッグ画面を表示するには、リモコンRC-627のESC → CHP/TMキーを順に押してください。
- メカコンのデバッグ画面表示から抜けるには、リモコンRC-627のESCキーを押してください。

### 画面レイアウト

### 表示内容

- 2のエラーが発生するトリガとなったエラー  
2と同じ場合が多い。
- シスコンに送ったエラー番号
- コード読みとり状態 (本機では対応していません)  
Xが表示されているときはID又はサブコードの読みとりができていないとき。Xが表示されていないときは読みとりができていないとき。
- ID又はサブコード (本機では対応していません)  
サブコードはAタイムを表示。
- 1のエラーが発生したときのメカコン内部モード  
最大10モードまで表示できる。左から古いモードの順に表示し、右に行くほど新しいモードになる。モードのネストの分だけ表示する。

## 6. Processing step of inside mode of 5

It can grasp the mode reaching an error and transition of step by watching 5 and 6 and it can specify the occurrence place of most errors.

## 7. Disk information in the mechanism controller

? : Indistinctness  
NO : There is no disc  
DVD 1 : DVD single layer  
DVD 2 : DVD dual layer  
CD : CD  
CDR : CD-R or CD-RW  
CDR P : PRD of CD-R or CD-RW

## 8. As a result of 8cm /12cm distinction

? : Indistinctness (undistinction)  
8 : 8 cm  
12 : 12 cm

## 9. OEIC gain (it does not support in this unit)

H : OEIC HIGH gain  
L : OEIC LOW gain

## 10. SGC gain for LD of 780nm

It indicates a step using in the mechanism controller inside with a hexadecimal number.  
Set the gain so that S curve becomes 1.8V (p-p) in disc distinction.

## 11. SGC gain for LD of 650nm For L0

It indicates a step using in the mechanism controller inside with a hexadecimal number. Set a gain so that S curve becomes 1.8V (p-p) in disc distinction.

## 12. SGC gain for LD of 650nm For L1

It indicates a step using in the mechanism controller inside with a hexadecimal number. Set a gain so that a S curve becomes 1.8V (p-p) in disc distinction.

## 13. RF count value for disc distinction

RF count value to use the disc distinction. It compares threshold value of 14 and 15 and distinguishes the disc.

## 14. Disc distinction threshold value (DVD and CD)

Threshold value of the disc distinction. Distinguish it from DVD if bigger than this value, and distinguish it from CD if small.

## 15. Disc distinction threshold value (CD and unrecorded disc)

Threshold value of the disc distinction. Distinguish it from CD if bigger than this value, and distinguish it from an unrecorded disc if small.

## 16. Current jitter value

Indicate the value that was read in from the SCRUT (IC701) in DVD, and indicate the value that was read in from the servo DSP in CD.

## 6. 5の内部モードの処理ステップ

5と6を見ることにより、エラーに至るまでのモードとステップの遷移を把握することができ、ほとんどの場合、エラーの発生場所を特定することができる。

## 7. メカコン内のディスク情報

? : 不明  
NO : ディスクなし  
DVD 1 : DVDシングルレイヤ  
DVD 2 : DVDデュアルレイヤ  
CD : CD  
CDR : CD-R、またはCD-RW  
CDR P : CD-RのPRD、またはCD-RWのPRD

## 8. 8cm/12cm判別の結果

? : 不明 (未判別)  
8 : 8 cm  
12 : 12 cm

## 9. OEICゲイン (本機では対応していません)

H : OEIC HIGHゲイン  
L : OEIC LOWゲイン

## 10. 780nmのLD用のSGCゲイン

メカコン内部で使用しているステップを16進数で表示している。  
ディスク判別時にS字が1.8V(p-p)になるようにゲイン設定する。

## 11. 650nmのLD用のSGCゲイン。L0用

メカコン内部で使用しているステップを16進数で表示している。ディスク判別時にS字が1.8V(p-p)になるようにゲイン設定する。

## 12. 650nmのLD用のSGCゲイン。L1用

メカコン内部で使用しているステップを16進数で表示している。ディスク判別時にS字が1.8V(p-p)になるようにゲイン設定する。

## 13. ディスク判別用RFカウント値

ディスク判別に使用するRFのカウント値。14と15の閾値と比較してディスクを判別する。

## 14. ディスク判別閾値 (DVDとCD)

ディスク判別の閾値。この値より大きければDVD、小さければCDと判別する。

## 15. ディスク判別閾値 (CDと未記録)

ディスク判別の閾値。この値より大きければCD、小さければ未記録と判別する。

## 16. 現在のジッタ値

DVD時はSCRUT (IC701)から読みとった値、CD時はサーボDSPから読みとった値を表示する

- 17. Focus balance setting value of L0**
- 18. Focus balance setting value of L1**
- 19. Current mechanism controller inside mode (it does not support in this unit)**  
It can indicate to a maximum 10 modes. Indicate only a nest share of the mode.
- 20. Processing step of 11 inside modes (it does not support in this unit)**  
It can grasp the current mode, the mode reaching it and transition of step by watching 19 and 20.
- 21. Spindle control state of SCRUT (IC701) (it does not support in this unit)**  
OFF : Motor off condition  
A/B : Accelerator and brakes  
FG : FG servo  
RVP : Rough speed phase servo  
ORVP : Rough speed phase servo of offset addition
- 22. Rotation number of spindle motor**  
Do not FG read in ? indication (during spindle stop).
- 23. Tracking error generation system (it does not support in this unit)**  
1 : 1 beam (DPD)  
3 : 3 beams
- 24. TZC count value (it does not support in this unit)**  
The value that counted the number of TZC for one rotation in the tracking open state.  
When this value is more than 512 with CD, set it in 1 beam because the eccentric is large.  
DVD does not measure it because it is 1 beam fixed (indication is 0000).
- 25. It indicates the frequency that entered the focus backup**  
Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 26. It indicates focus backup limit frequency with the hexadecimal number**  
Initial value is 14H, it does decrement whenever enter the focus backup and it gives up backup if it became 0. Then the error is generated. After reverted from the backup, When not enter the backup and pass fixed time (1500ms), return to initial value again.
- 27. It indicates the frequency that entered the internal circumference plunging into backup of the sled**  
Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 17. LOのフォーカスバランス設定値**
- 18. L1のフォーカスバランス設定値**
- 19. 現在のメカコン内部モード (本機では対応していません)**  
最大10モードまで表示できる。モードのネストの分だけ表示する。
- 20. 11の内部モードの処理ステップ (本機では対応していません)**  
19と20を見ることにより、現在のモードとそれに至るまでのモード、ステップの遷移を把握することができる。
- 21. SCRUT (IC701)のスピンドル制御状態 (本機では対応していません)**  
OFF : モータオフ状態  
A/B : アクセル・ブレーキ  
FG : FGサーボ  
RVP : ラフ速度位相サーボ  
ORVP : オフセット加算ラフ速度位相サーボ
- 22. スピンドルモータの回転数**  
?表示時はFG読みとりをしていないとき (スピンドル停止中)。
- 23. トラッキングエラー生成方式 (本機では対応していません)**  
1 : 1ビーム (DPD)  
3 : 3ビーム
- 24. TZCカウント値 (本機では対応していません)**  
トラッキングオープン状態で1回転分のTZCの数をカウントした値。  
CDでこの値が512以上の時は偏芯大なので1ビームにする。  
DVDは1ビーム固定なので測定しない (表示は0000)。
- 25. フォーカスバックアップに入った回数**  
16進表示。カウンタは電源を入れてから電源を切るまでリセットしない。1バイトカウンタなので、FFの次は00になる。
- 26. フォーカスバックアップ制限回数**  
16進表示。初期値は14Hでフォーカスバックアップに入るたびにデクリメントしていき、0になったらバックアップを諦めエラーを発生する。バックアップから復帰後、バックアップに入ることなく一定時間 (1500ms) 経過すると再び初期値に戻る。
- 27. スレッド内周突っ込みバックアップに入った回数**  
16進表示。カウンタは電源を入れてから電源を切るまでリセットしない。1バイトカウンタなので、FFの次は00になる。

- 28. It indicates the frequency that entered the tracking overrun backup**  
Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 29. It indicates the limit frequency of tracking overrun backup with a hexadecimal number**  
Initial value is 03H, it does decrement whenever enter the tracking overrun backup and it gives up backup if it became 0.
- 30. It indicates the frequency that entered sled overrun backup**  
Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 31. It indicates the limit frequency of sled overrun backup with a hexadecimal number**  
Initial value is 03H, it does decrement whenever enter the sled overrun backup and it gives up backup if it became 0.
- 32. It indicates the frequency that entered the tracking close NG backup**  
Hexadecimal number indication. Counter does not reset till turns the power off after turning it on. Next of FF is be a 1 byte counter in 00.  
The hexadecimal number indication which indicates the frequency that reads.
- 33. ID/subQ, and entered NG backup**  
Hexadecimal number indication. A counter does not reset it till cuts it off after turning it on. Due to a 1 byte counter, next of FF becomes 00.
- 34. An address to indicate in 35**  
Set it by using RS232.I  
(an address) Set it with DA.
- 35. Contents of an address indicated in 34.**
- 28. トラッキング暴走バックアップに入った回数**  
16進表示。カウンタは電源を入れてから電源を切るまでリセットしない。1バイトカウンタなので、FFの次は00になる。
- 29. トラッキング暴走バックアップ制限回数**  
16進表示。初期値は03Hでトラッキング暴走バックアップに入るたびにデクリメントしていき、0になったらバックアップを諦めエラーを発生する。
- 30. スレド暴走バックアップに入った回数**  
16進表示。カウンタは電源を入れてから電源を切るまでリセットしない。1バイトカウンタなので、FFの次は00になる。
- 31. スレド暴走バックアップ制限回数**  
16進表示。初期値は03Hでスレド暴走バックアップに入るたびにデクリメントしていき、0になったらバックアップを諦めエラーを発生する。
- 32. トラッキングクローズNGバックアップに入った回数**  
16進表示。カウンタは電源を入れてから電源を切るまでリセットしない。1バイトカウンタなので、FFの次は00になる。
- 33. ID/subQ読み取りNGバックアップに入った回数**  
16進表示。カウンタは電源を入れてから電源を切るまでリセットしない。1バイトカウンタなので、FFの次は00になる。
- 34. 35に表示するアドレス**  
RS232を使用して設定する。  
(アドレス) DAで設定する。
- 35. 34に表示されているアドレスの内容。**

## 4-4 Error Code

### Error codes that are displayed on the FL display without using the remote control unit

| FL Display | Possible causes   | Operation of the unit   |
|------------|---|---|
| AV1 VER    | AV-1 chip is not a match with the program of system controller  | The sound may not out with the specific audio.  |
| CPU AERR   | CPU address error (Hardware is unusual.)  | No operation  |
| DMA AERR   | DMA address error (Hardware is unusual.)  | No operation  |
| FLASH ID   | Difference in versions of the internal ROM of the system controller and of the flash ROM, or bus line failure or reverse installation | No operation  |
| FLASH WRP  | Write protect error of the flash ROM  | No operation  |
| FLASH SIG  | Difference in part number of the flash ROM (When the ROM which could't be used was used.)   | No operation  |
| FLASH SUM  | Check sum error of the flash ROM (It exceeds the regular size.) or reverse installation (Hardware is unusual.)                        | No operation  |
| FLASH SIZE | Size error of the flash ROM (Use 4 or 8 M-bit.)   | No operation  |
| ILLGAL     | The system controller fetched a code other than an operation code (Hardware is unusual.)  | No operation  |
| RESERVE    | Undefined interrupt (Hardware is unusual.)  | No operation  |
| SLOT       | Inappropriate slot command issued (Hardware is unusual.)  | No operation  |
| SDSP PWER  | Access error to the servo DSP or clock does not oscillation (Hardware is unusual.)  | Accept only OFF operation of the POWER key of the main unit. Remote control unit is impossible. |

### Error codes that are displayed on the FL display by using the remote control unit (Mechanism controller error)

To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of center of the FL display

To display the error history: ESC + DISPLAY + One shot; Location of the display: TV screen

| FL | Description of Error                  | Causes if with a DVD   | Causes if with a CD  | Operation of the Unit                    |
|----|---------------------------------------|--|--|--|
| 11 | Search timeout                        | Search could not be complete within 7 seconds.   | Search could not be complete within 7 seconds, and it could not enter the target area within 7 seconds by VCD scan.  | CD : Stops,<br>DVD : Continues operation |
| 12 | Search retry error                    | A search could not be completed after 3 retries, search backup was executed 4 times, or in a case of timeout (6 seconds) while the unit was tracing 11 tracks or more beyond the target while the search operation was converging. | Backup against slider skip was executed 4 times during a search, or slider skip twice resulted in starting from the read-in point.   | CD : Stops,<br>DVD : Continues operation |
| 19 | Tracing timeout while converging      | Timeout (10.5 seconds) while tracing at the stage of convergence of a search.  |  | Stop                                     |
| 1B | Index 0 search error                  |  | During Track (Index) Search, the search for the beginning of a program could not be completed within 3 seconds (20 seconds in the case of Index Search) after positioning based on the TOC data was completed. | Stop                                     |
| 1C | Wobble distinction error              | Distinguished RW disc without wobble.  |  | Read the RW control data.                |
| 22 | Timeout of slider inner circumference | Inside switch could not ON within 3 seconds.   |  | Stop                                     |
| 23 | Timeout of slider outer circumference | Inside switch could not OFF within 2 seconds.  |  | Stop                                     |

| FL | Description of Error                              | Causes if with a DVD   | Causes if with a CD | Operation of the Unit  |
|----|---|--|---------------------|--|
| 33 | No FOK pulse during playback CLVA                 | When the focus was deviated continuously 20 times.   |                     | Adjusts focus at the innermost circumference and tries to return to its position where the error was generated (for 3 times), then opens. If the same error persists after one retry, the tray opens. (No FOK pulse) |
| 38 | Disc-type-sensing error                           | If normal starting was impossible in the following three cases, disc-type sensing will be retried if other errors occur excepting C5 error. However, when the focus error "33" was occurred continuously 3 times, it is finished as "38 error" at the moment:<br>(1) startup with the first disc-type-sensing result, (2) forced startup with another disc by designating the disc type, (3) forced startup with the original disc by designating the disc type. |                     | Open   |
| 39 | SGC converge timeout                              | SGC could not converge during detects the peak   |                     | Open   |
| 41 | Spindle timeout                                   | The unit did not enter Stop mode within 10 seconds of issuance of a Stop command.  |                     | Stop   |
| 48 | Spindle FG transition timeout                     | The spindle could not converge into within $\pm 12\%$ of the target FG rotation speed within 10 seconds after spindle kick. The first time after startup (the first time after disc distinction), it doesn't become the number of the target rotation within five seconds. The first time after startup, detects the abnormal rotation number of high-speed continuously 3 loops. DVD: 5 to 9 mS , CD: 40 to 60 mS   |                     | Stops. (FG timeout)  |
| 49 | Spindle PLL transition timeout                    | After the second times after startup, it doesn't become the number of the target rotation within five seconds. Detects the abnormal high-speed or low-speed rotations. DVD: 5 to 9 mS , CD: 40 to 60 mS  |                     | Stops. ("73" is displayed during starting process.)  |
| 4A | Spindle lock timeout                              | Spindle could not lock more than 1.5 seconds before start the AFB.   |                     | Stops. ("73" is displayed during starting process.)  |
| 51 | Auto sequence timeout of peak detection           | ABUSY did not return within 1 second after the DDTCT (peak detection) command was sent.  |                     | Stop   |
| 52 | Auto sequence timeout of focus jump down          | ABUSY did not return within 30 mS after the FJMPD (Focus jump 1 to 0) command was sent.  |                     | Stop   |
| 53 | Auto sequence timeout of focus jump up            | ABUSY did not return within 30 mS after the FJMPU (Focus jump 0 to 1) command was sent.  |                     | Stop   |
| 54 | Auto sequence timeout of play AGC                 | ABUSY did not return within 50 mS after the GSUMON (play-AGC-measuring) command was sent.  |                     | Stop   |
| 55 | Auto sequence timeout of disc-type-sensing        | ABUSY did not return within 2 seconds after the DJSRT (disc-sensing) command was sent.   |                     | Stop   |
| 56 | Auto sequence timeout of ATB2                     | ABUSY did not return within 1 second after the TBLOFS (Internal ATB after the completion of external ATB) command was sent.  |                     | Stop   |
| 57 | Auto sequence timeout of tracking servo ON        | ABUSY did not return within 500 mS after the TSON (tracking servo ON) command was sent.  |                     | Stop   |
| 58 | Auto sequence timeout of ATB1                     | ABUSY did not return within 200 mS after the TBL (external ATB) command was sent.  |                     | Stop   |
| 59 | Auto sequence timeout of focus gain adjustment    | ABUSY did not return within 2 seconds after the FGN (focus gain adjustment) command was sent.  |                     | Stop   |
| 5A | Auto sequence timeout of tracking gain adjustment | ABUSY did not return within 2 seconds after TGN (tracking gain adjustment) command was sent.   |                     | Stop   |
| 5B | Auto sequence timeout of offset adjustment        | ABUSY did not return within 1 second after the CMDAVE (offset adjustment) command was sent.  |                     | Stop   |

| FL   | Description of Error   | Causes if with a DVD   | Causes if with a CD   | Operation of the Unit  |
|------|--|--|---|--|
| 5C   | Auto sequence timeout of modulation factor measurement         | ABUSY did not return within 200 mS after the ADJMIR (modulation factor measurement) command was sent.  |   | Stop   |
| 5D   | Auto sequence timeout of auto focus bias                       | ABUSY did not return within 2 seconds after the AFB (auto focus bias) command was sent.  |   | Stop   |
| 5F   | Auto sequence already busy                                     | A command could not be sent because ABUSY was low. ABUSY did not return within 200 mS after TLV command was sent.  |   | Stop   |
| 62   | Pause retry error  | Pause mode could not be restored within three retries after it had been released.  |   | Continues operation  |
| 71   | ID can not read during tracing                                 | An ID could not be read for 1 second or more.  |   | Stop   |
| 72   | Subcode check failure during playback                          |  | No frame could be read for 3 seconds or more.                                     | Stop   |
| 73   | ID can not read at the startup                                 | An ID could not be read within 1 second after the AFB adjustment had been finished.  |   | Opens (ID readout failure)   |
| 74   | Subcode check failure during startup                           |  | No subcode could be read within 3 seconds after AFB adjustment had been finished. | Opens (Subcode readout failure).   |
| 81   | Timeout for reading TOC of the mechanism controller            |  | TOC readout took 30 seconds or more.  | Stop   |
| 82   | Timeout for reading TOC of the system controller               |  | Reading TOC of the system controller took 30 seconds or more.                     | Stop   |
| A1   | Communication timeout of DSP command                           | A command could not be issued to DSP because Command Busy (XCBUSY) was in force (XCBUSY = L) for a specified time (about 200 mS).  |   | Open   |
| A2   | Communication timeout for reading DSP coefficient              | Command Busy (XCBUSY) was in force for a specified time (about 200 mS) before and after a coefficient read command was issued to DSP, or the address echo-back after command issuance did not match the setup address.                                 |   | Open   |
| A3   | Communication timeout for writing DSP coefficient              | Command Busy (XCBUSY) was in force for a specified time (about 1024 mS) before and after the coefficient write command was issued to DSP.  |   | Open   |
| A4   | Communication timeout for continuously writing DSP coefficient | Command Busy (XCBUSY) was in force for 200 $\mu$ S during continuous coefficient writing, or before and after a continuous write command was issued to DSP.  |   | Open   |
| B1   | Timeout error for backup                                       | In the tracing state during the backup sequence, codes could not be read for 1 second or more. In the backup sequence, tracking ON sequence of the servo DSP could not be completed even if more than 500 mS after the tracking ON command was issued. |   | Stops  |
| B2   | Retry error for backup   | Tracing impossible after retrying the tracking ON for 3 times in the backup sequence.  |   | Stops  |
| B3   | Retry error for trace  | During tracing, runaway was detected after three iterations of backup operations for detecting runaway.  |   | Stops  |
| C3   | Detection of tracking overcurrent                              | During playback, the overcurrent detection port was at L for 300 ms or more continuously.  |   | Stops (the mechanical controller operates independently).                                      |
| (C5) | Short-circuit test corresponding error                         | While the power was on, the overcurrent detection port was at L for 40 ms or more continuously.  |   | Turns off the power instantly (No indication on the FL display and no writing to flash memory) |
| E3   | Violation against digital copy guard                           |  |   | Stops  |

| FL | Description of Error | Causes if with a DVD   | Causes if with a CD | Operation of the Unit  |
|----|----------------------|--|---------------------|--|
| F5 | Tray being pushed    | The tray switch that had been Open mode was forcibly changed to a mode other than Open by an external force.   |                     | Closes   |
| F8 | Loading timeout      | Loading, unloading or clamping could not be completed within a specified time (about 5 seconds).   |                     | Reverses the loading direction. If timeout is repeated upon retry, the unit stops. |
| FC | Focus                | <p>The following error occurred eight times.</p> <p>(1) Focus ON sequence could not be completed even if more than two seconds after the focus ON command (to the servo DSP) was sent.</p> <p>(2) Focus IN sequence was finished, actually focus IN was not completed.</p> |                     | Stops wherever possible then opens (stops in the case of side B).                  |

**Error codes that are displayed on the FL display by using the remote control unit (Device error)**

**To display : ESC + DISPLAY + DISPLAY ; Location of the display : At the two digits of left of the FL display**

| FL             | Description of Error              | Causes if with a DVD | Causes if with a CD | Operation of the Unit   |
|----------------|-----------------------------------|----------------------|---------------------|---|
| bit3=1 08 etc. | AV1 access error (read, write NG) |                      |                     | No operation or it becomes debugging indication if the power is able to ON. |
| bit2=1 04 etc. | MY CHIP access error              |                      |                     |   |
| bit1=1 01 etc. | SRAM access error                 |                      |                     |   |



## 4-4 エラー表示

リモコン操作をしなくてもFLに表示されるもの

| FL 表示      | 考えられる原因  | 処 理                                |
|------------|--|------------------------------------|
| AV1 VER    | AV-1チップとシスコプログラムの組み合わせが合っていない                      | 特定オーディオで音が出ない場合がある                 |
| CPU AERR   | CPUアドレスエラーが発生した (ハード異常)                            | 動作させない                             |
| DMA AERR   | DMAアドレスエラーが発生した (ハード異常)                            | 動作させない                             |
| FLASH ID   | シスコ内部ROMとフラッシュROMのバージョン違い又はバスラインNG又は逆差し            | 動作させない                             |
| FLASH WRP  | フラッシュROMのライトプロテクトエラー                               | 動作させない                             |
| FLASH SIG  | フラッシュROMの品番違い (使用不可能のフラッシュROMを使用した場合)              | 動作させない                             |
| FLASH SUM  | フラッシュROMのチェックサムエラー (規定のサイズをオーバーしている) 又は逆差し (ハード異常) | 動作させない                             |
| FLASH SIZE | フラッシュROMのサイズエラー(4 or 8 M-bit を使用)                  | 動作させない                             |
| ILLGAL     | シスコが実行出来ない命令を読み込んだ (ハード異常)                         | 動作させない                             |
| RESERVE    | 未定義割り込みが発生した (ハード異常)                               | 動作させない                             |
| SLOT       | スロット不当命令が発生した (ハード異常)                              | 動作させない                             |
| SDSP PWER  | サーボDSPへのアクセスエラーもしくはクロックが発振していない (ハード異常)            | 本体パワーキーでのパワーOFF操作のみ受け付ける (リモコンは不可) |

リモコン操作をしてFLに表示されるもの (メカコンエラー)

表示方法: ESC + DISPLAY + DISPLAY 表示場所: FLの中2桁

エラー履歴表示方法: ESC + TV/LDP + One shot 表示場所: TV画面

| FL | エラー概要            | DVDでの発生条件   | CDでの発生条件  | 処 理   |
|----|------------------|---|---|---|
| 11 | サーチタイムアウト        | サーチ開始後7秒で終わらなかった場合  | サーチ開始後7秒で終わらなかった場合又はVCDスキャンでターゲットエリア内に7秒以内に入れなかった場合               | CD: ストップ<br>DVD: そのまま   |
| 12 | サーチリトライエラー       | 3回リトライしてもダメな時、又はサーチのバックアップが4回働いた場合、又はサーチ収束時のトレースでターゲットを越えている、11TRK以上離れているときにタイムアウト(6秒)した場合  | サーチ中スライダ飛びバックアップが4回働いた場合又は飛ばされてリードインへの突っ込みが2回発生した場合               | CD: ストップ<br>DVD: そのまま   |
| 19 | 収束時トレースタイムアウト    | サーチ収束段のトレースでタイムアウト(10.5秒)した場合   |   | ストップ  |
| 1B | インデックス0 (頭出し)エラー |   | トラック(インデックス)サーチでTOCデータに基づいた移動終了後、3秒(インデックスサーチでは20秒)以内に頭出しが終わらなかった | ストップ  |
| 1C | ウォブル誤判別          | RWディスクをウォブルなしと判別した  |   | RWのコントロールデータ読み取りする  |
| 22 | スライダ内周移動タイムアウト   | 3秒以内にインサイドSWがONしなかった  |   | ストップ  |
| 23 | スライダ外周移動タイムアウト   | 2秒以内にインサイドSWがOFFしなかった   |   | ストップ  |
| 33 | 再生中のFOK落ち CLVA   | 連続して20回フォーカスが外れた時   |   | 最内周でフォーカス入れ直し、落ちたところへ戻る(3回)その後オープン<br>1回リトライ後同条件ならオープン(FOK落ち) |
| 38 | ディスク判別ミス         | 初めのディスク判別結果での立ち上げ、違うディスクでの強制決めつけ立ち上げ、元に戻したディスクでの強制決めつけ立ち上げで正常立ち上げが出来なかった場合。<br>ディスク判別のリトライ条件は C5エラー以外のエラーが発生した時。但し、フォーカスエラー “33” が3回連続した場合はその時点で “38エラー” として終了する。 |   | オープン  |

| FL | エラー概要                      | DVDでの発生条件   | CDでの発生条件 | 処理                         |
|----|----------------------------|---|----------|----------------------------|
| 39 | SGC収束タイムアウト                | ピーク検出中にSGCが収束しなかった  |          | オープン                       |
| 41 | スピンドルタイムアウト                | 停止処理をして 10 秒 たってもストップ状態にならないとき  |          | ストップ                       |
| 48 | スピンドルFG移行タイムアウト            | スピンドルキックから10 秒以内に目標FG回転数の ±12% 以内に収束しなかった<br>立ち上げ1回目(ディスク判別後の1回目) 5 秒以内にターゲット回転数にならない<br>立ち上げ1回目 3ループ連続で異常高速な回転数を検出した DVD: 5 ~ 9 mS, CD: 40 ~ 60 mS |          | ストップ (FGタイムアウト)            |
| 49 | スピンドルPLL移行タイムアウト           | 立ち上げ 2回目以降 5 秒以内にターゲット回転数にならない<br>異常高速/低速な回転数を検出した DVD: 5 ~ 9 mS, CD: 40 ~ 60 mS  |          | ストップ<br>(立ち上げ中は"73" 表示になる) |
| 4A | スピンドルロックタイムアウト             | AFB開始前に 1.5 秒以上スピンドルがロックしなかった   |          | ストップ<br>(立ち上げ中は"73" 表示になる) |
| 51 | ピーク検出オートシーケンスタイムアウト        | DDTCT (ピーク検出コマンド) 送信後 1 秒以内にABUSYが戻らなかった  |          | ストップ                       |
| 52 | フォーカスジャンプダウンオートシーケンスタイムアウト | FJMPD (フォーカスジャンプ 1 → 0コマンド) 送信後 30 mS以内にABUSYが戻らなかった  |          | ストップ                       |
| 53 | フォーカスジャンプアップオートシーケンスタイムアウト | FJMPU (フォーカスジャンプ 0 → 1コマンド) 送信後 30 mS以内にABUSYが戻らなかった  |          | ストップ                       |
| 54 | プレイAGCオートシーケンスタイムアウト       | GSUMON (プレイAGC用測定コマンド) 送信後 50 mS以内にABUSYが戻らなかった   |          | ストップ                       |
| 55 | ディスク判別オートシーケンスタイムアウト       | DJSRT (ディスク判別コマンド) 送信後 2 秒以内にABUSYが戻らなかった   |          | ストップ                       |
| 56 | ATB2オートシーケンスタイムアウト         | TBLOFS (外部ATBの後に行う内部ATBコマンド) 送信後 1 秒以内にABUSYが戻らなかった   |          | ストップ                       |
| 57 | トラッキングサーボONオートシーケンスタイムアウト  | TSON (トラッキングサーボONコマンド) 送信後 500 mS以内にABUSYが戻らなかった  |          | ストップ                       |
| 58 | ATB1オートシーケンスタイムアウト         | TBL (外部ATBコマンド) 送信後 200 mS以内にABUSYが戻らなかった   |          | ストップ                       |
| 59 | フォーカスゲイン調整オートシーケンスタイムアウト   | FGN (フォーカスゲイン調整コマンド) 送信後 2 秒以内にABUSYが戻らなかった   |          | ストップ                       |
| 5A | トラッキングゲイン調整オートシーケンスタイムアウト  | TGN (トラッキングゲイン調整コマンド) 送信後 2 秒以内にABUSYが戻らなかった  |          | ストップ                       |
| 5B | オフセット調整オートシーケンスタイムアウト      | CMDAVE (オフセット調整コマンド) 送信後 1 秒以内にABUSYが戻らなかった   |          | ストップ                       |
| 5C | 変調度測定オートシーケンスタイムアウト        | ADJMIR (変調度測定コマンド) 送信後 200 mS以内にABUSYが戻らなかった  |          | ストップ                       |
| 5D | オートフォーカスバイアスオートシーケンスタイムアウト | AFB (オートフォーカスバイアスコマンド) 送信後 2 秒以内にABUSYが戻らなかった   |          | ストップ                       |
| 5F | オートシーケンスすでにBUSY            | ABUSYが LOWでコマンドが送れなかった<br>TLV 送信後 200 mS以内にABUSYが戻らなかった   |          | ストップ                       |
| 62 | ポーズリトライエラー                 | ポーズがはずれて、リトライ 3回してもポーズに戻れなかったとき   |          | そのまま                       |

| FL   | エラー概要                | DVDでの発生条件  | CDでの発生条件                             | 処理                                   |
|------|----------------------|--|--------------------------------------|--------------------------------------|
| 71   | トレース中に IDが読めない       | 1 秒以上 IDが読めない  |                                      | ストップ                                 |
| 72   | 再生中のサブコードチェック        |  | 3 秒以上サブコードが 1 フレームも読めなかった            | ストップ                                 |
| 73   | 立ち上げ時に IDが読めない       | AFB 調整終了後 1 秒以内に IDが読めなかった   |                                      | オープン (ID 読取 NG)                      |
| 74   | 立ち上げ中のサブコードチェック      |  | AFB 調整終了後 3 秒以内にサブコードが 1 フレームも読めなかった | オープン (サブコード 読取 NG)                   |
| 81   | メカコンの TOC 読みとりタイムアウト |  | TOC 読みとりに 30 秒以上かかった                 | ストップ                                 |
| 82   | シスコンの TOC 読みとりタイムアウト |  | シスコンの TOC 読みとりが 30 秒以内で終わらない         | ストップ                                 |
| A1   | DSP コマンド通信タイムアウト     | DSP に対してコマンドを送ろうとした際にコマンドビジー (XCBUSY) が一定時間 (約 200 mS) ビジー状態 (XCBUSY = L) でコマンド発行できなかった場合  |                                      | オープン                                 |
| A2   | DSP 係数読取通信タイムアウト     | DSP に対して係数読取コマンドを発行する前後で、コマンドビジー (XCBUSY) が一定時間 (約 200 mS) ビジー状態だった場合<br>又はコマンド発行後のアドレスエコーバックが設定アドレスと不整合であった場合                   |                                      | オープン                                 |
| A3   | DSP 係数書込通信タイムアウト     | DSP に対して係数書込コマンドを発行する前後で、コマンドビジー (XCBUSY) が一定時間 (約 1024 mS) ビジー状態だった場合   |                                      | オープン                                 |
| A4   | DSP 係数連続書込通信タイムアウト   | DSP に対して連続係数書込中、あるいは連続書込コマンドを発行する前後で、コマンドビジー (XCBUSY) が一定時間 (200 μS) ビジー状態だった場合  |                                      | オープン                                 |
| B1   | バックアップタイムアウトエラー      | バックアップシーケンス中のトレース状態で 1 秒以上コードが読めなかった<br>バックアップシーケンス時にトラッキングONコマンド発行後 500 mS 経ってもサーボ DSP のトラッキングONシーケンスが終了しなかった                   |                                      | ストップ                                 |
| B2   | バックアップリトライエラー        | バックアップシーケンスでトラッキングONリトライを 3 回行ってもトレース状態に復帰しなかった  |                                      | ストップ                                 |
| B3   | トレースリトライエラー          | トレース中の暴走検出バックアップを 3 回行った後さらに暴走検出した   |                                      | ストップ                                 |
| C3   | トラッキング過電流検出          | 再生中過電流検出ポートが 300 ms以上連続して L だった  |                                      | ストップ (メカコン単独で働く)                     |
| (C5) | ショート試験対応エラー          | パワー-ON時過電流検出ポートが 40 ms以上連続して L だった   |                                      | 即座にパワー-OFF (FLに表示されず、FLASHにも書き込まれない) |
| E3   | デジタルコピーガード違反         |  |                                      | ストップ                                 |
| F5   | トレイ押された              | オープン状態であったトレイSWが外からの力でオープン以外のモードになったとき   |                                      | クローズ                                 |
| F8   | ローディングタイムアウト         | ローディング/アンローディングが一定時間 (約 5 秒)以内に終わらない場合   |                                      | ローディング方向を反転それでもタイムオーバーならストップ         |
| FC   | フォーカス                | 下記のことが 8 回発生した場合<br>(1) フォーカスONコマンド (サーボ DSP に対して)送信後 2 秒以上経ってもフォーカスINシーケンスが終了しなかった<br>(2) フォーカスINシーケンスは終了したが実際にはフォーカスINできていなかった |                                      | フリーランストップ後オープン (B面ではストップ)            |

リモコン操作をしてFLに表示されるもの (デバイスエラー)

表示方法: ESC + DISPLAY + DISPLAY 表示場所: FLの左2桁

| FL             | エラー概要                     | DVDでの発生条件 | CDでの発生条件 | 処理                          |
|----------------|---------------------------|-----------|----------|-----------------------------|
| bit3=1 08 etc. | AV1 アクセスエラー (リード, ライト NG) |           |          | 動作しない、又はパワー-ONできたらデバッグ表示になる |
| bit2=1 04 etc. | MY CHIP アクセスエラー           |           |          |                             |
| bit1=1 01 etc. | SRAM アクセスエラー              |           |          |                             |

# 5 DISASSEMBLING AND REASSEMBLING

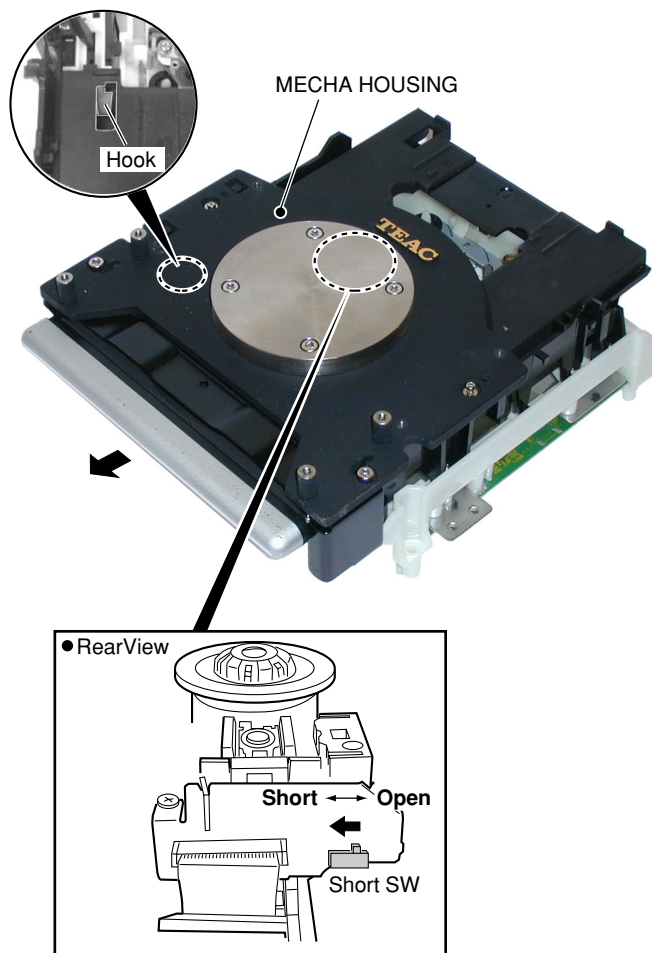
分解と組立

## Disassembly of the Traverse Mechanism Assy

1. Remove the LOADING MECHANISM ASSY.
2. Remove the MECHA HOUSING.
3. Pull out the Tray and remove it while unhooking a Hook.
4. Turn the Short SW to Short side.

## トラバースメカの外し方

1. LOADING MECHANISM ASSYを外す。
2. MECHA HOUSINGを外す。
3. トレイを引き出し、フックを外しながらトレイを外す。
4. ショートSWをショート側に切り替える。

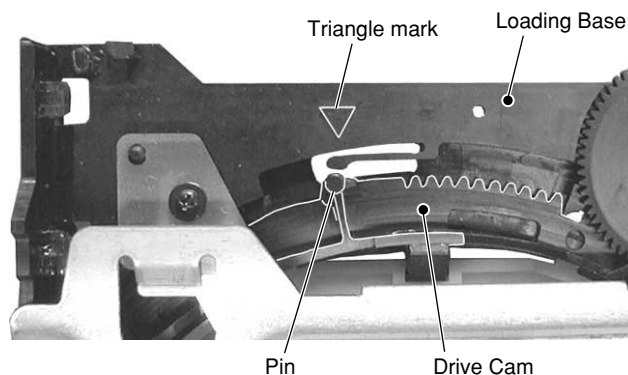


### Caution in the tray insertion

In the Tray insertion, insert it after matching a triangle mark of the Loading Base and a position of pin of the Drive Cam.

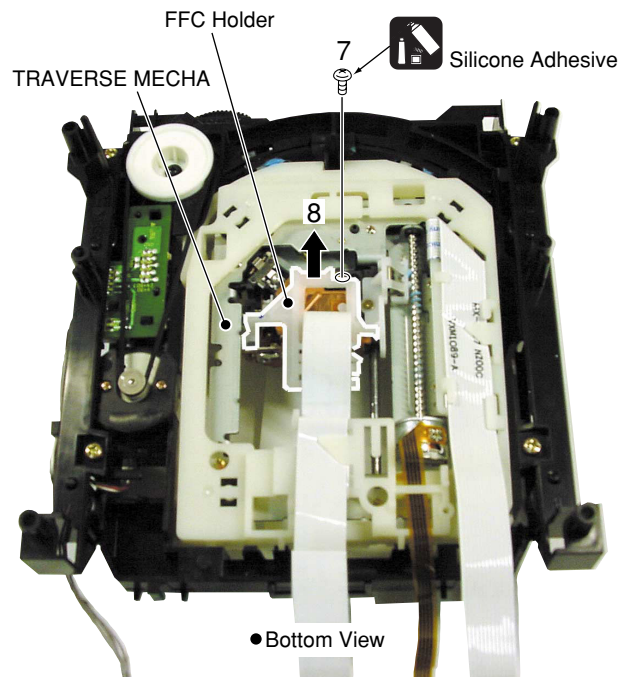
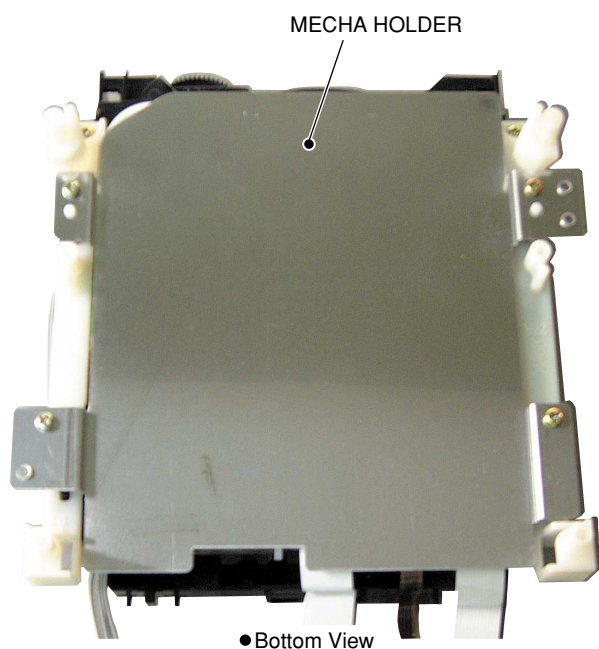
### トレイ挿入時の注意

トレイ挿入時には、ローディングベースの三角印とドライブカム  
のピンの位置を合せてから挿入してください。



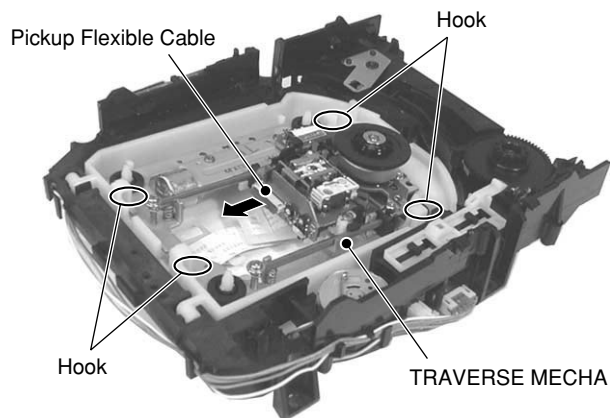
5. Remove the DVDM PCB ASSY.
6. Remove the MECHA HOLDER.
7. Remove a screw.  
Screw is locked with Silicone adhesive.  
Please lock it with Silicone adhesive when installs it.
8. Remove the FFC Holder with the state which Flexible Cable was attached.

5. DVDM PCB ASSYを外す。
6. MECHA HOLDERを外す。
7. ネジを外す。  
ネジはボンドロックされています。  
取付ける時もボンドロックしてください。
8. フレキが付いたままFFCホルダーを外す。



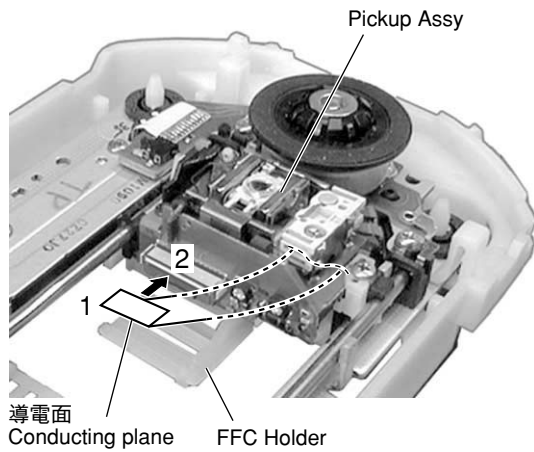
9. Remove the Pickup Flexible Cable.
10. Unhook.
11. Remove the TRAVERSE MECHA.

9. ピックアップフレキを抜く。
10. フックを外す。
11. TRAVERSE MECHAを外す。



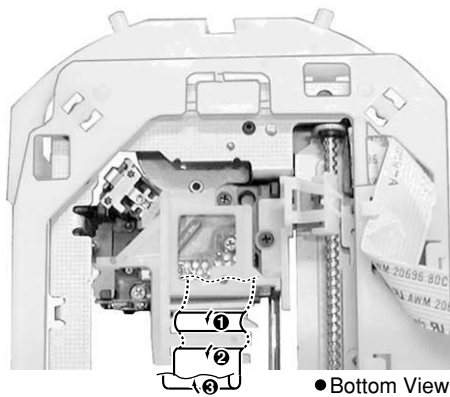
## ■ Styling the Pickup Flexible Cable ピックアップフレキのスタイリング

1. Fold a edge of lining part of the Pickup Flexible Cable.  
ピックアップフレキの裏打ち部分の端を折る
2. Insert the Pickup Flexible Cable in connector, and lock it surely.  
ピックアップフレキをコネクタに挿入して確実にロックする

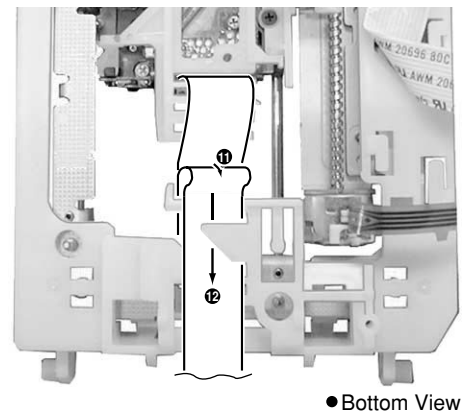
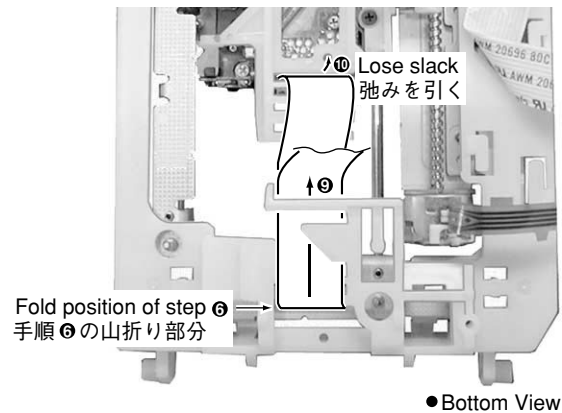
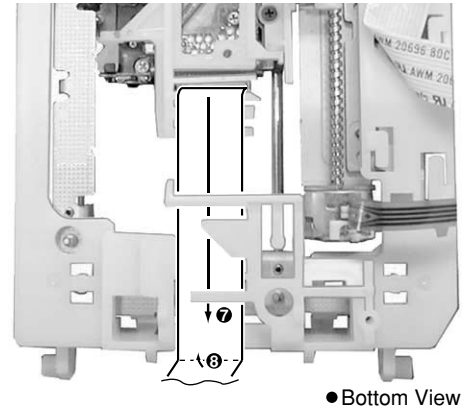
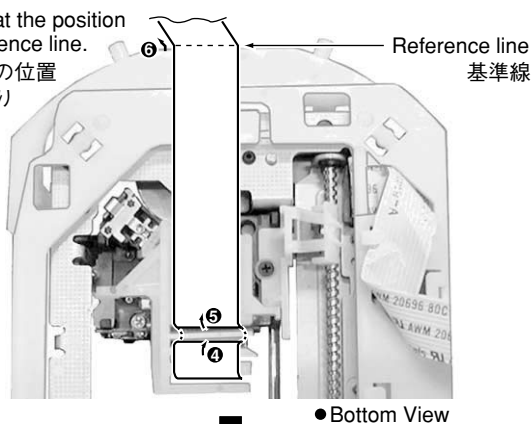


**Caution:** Move the Pickup to the innermost of the disc.  
注意：ピックアップAssyは最内周に移動させておく

3. Perform the styling as shown in figure below.  
下図のようにスタイリングする



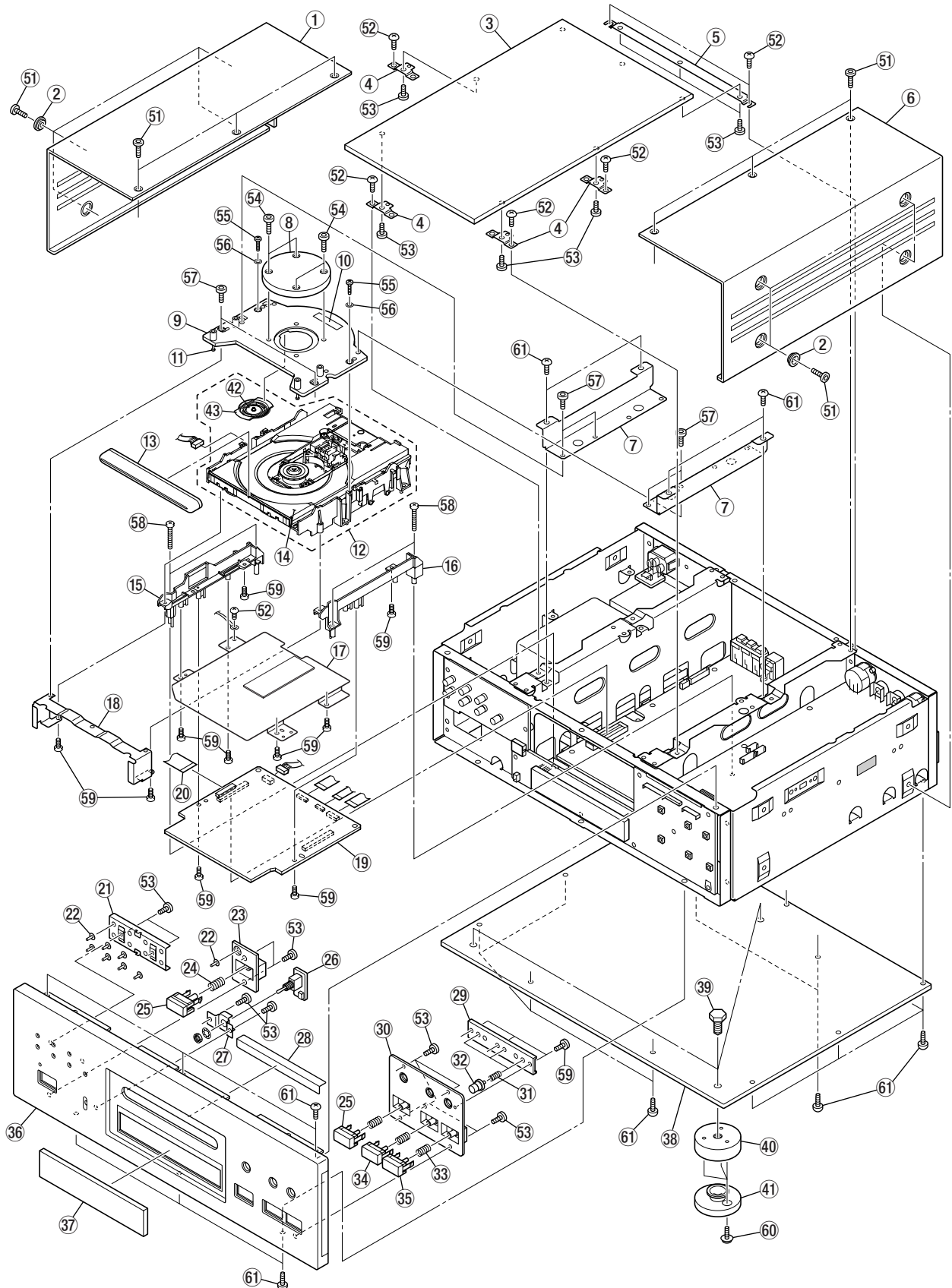
Fold it at the position of reference line.  
基準線の位置で山折り



# 6 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

## EXPLODED VIEW-1



## EXPLODED VIEW-1

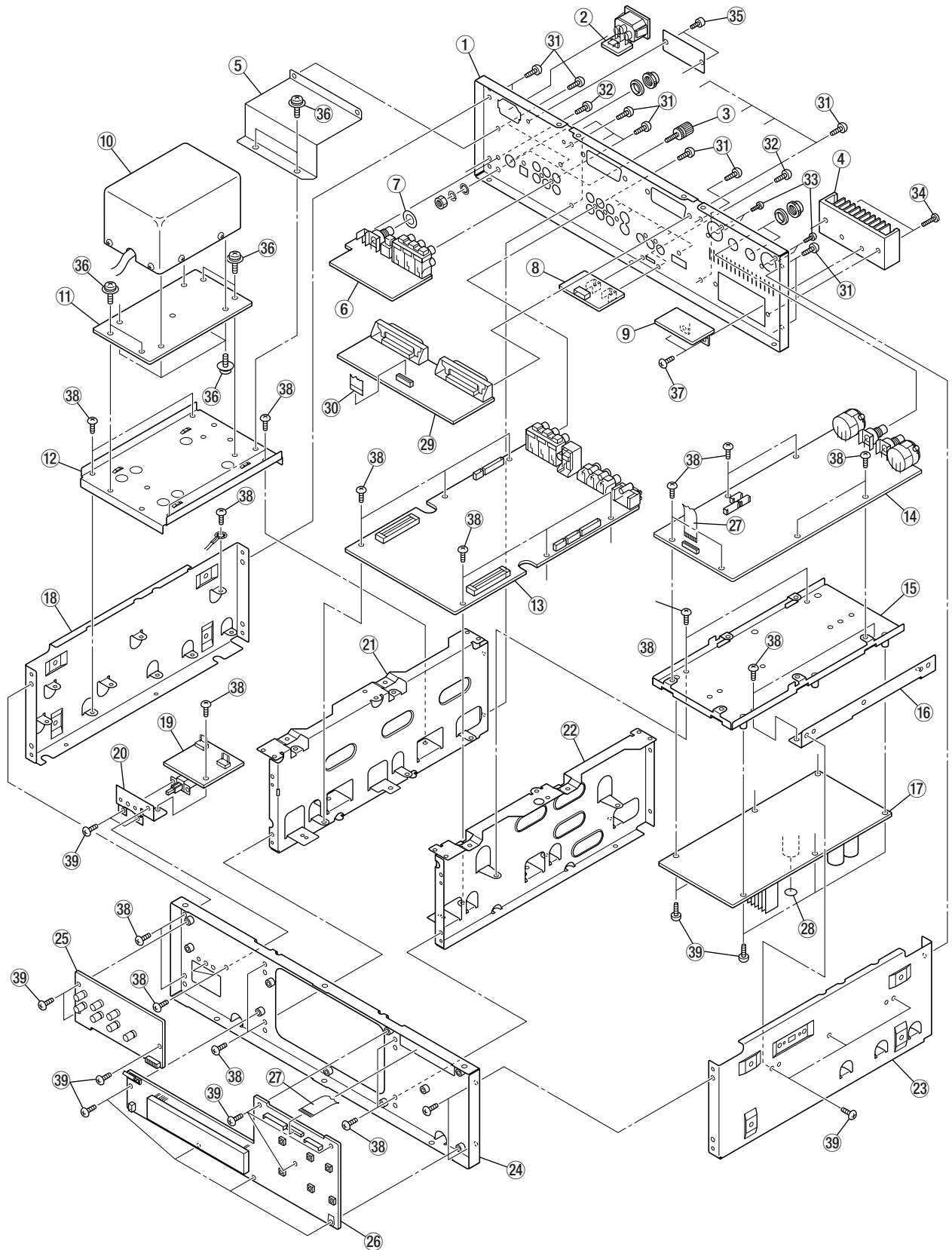
| REF. NO. | PARTS NO.  | DESCRIPTION                          | REMARKS |
|----------|------------|--------------------------------------|---------|
| 1- 1     | M00389001A | COVER, L SIDE B [J, K]               |         |
|          | M00389002A | COVER, L SIDE C BLK [US, C, E, UK]   |         |
| 1- 2     | M00387502A | COLLAR, SCREW (N01SP) [J, K]         |         |
|          | M00387501A | COLLAR, SCREW B [US, C, E, UK]       |         |
| 1- 3     | M01540500A | TOP PANEL [J, K]                     |         |
|          | M01540501A | TOP PANEL, BLK [US, C, E, UK]        |         |
| 1- 4     | M01487800A | BRACKET, TOP (A)                     |         |
| 1- 5     | M01487900A | BRACKET, TOP (B)                     |         |
| 1- 6     | M00389101A | COVER, R SIDE B [J, K]               |         |
|          | M00389102A | COVER, R SIDE C BLK [US, C, E, UK]   |         |
| 1- 7     | M01539100A | HOLDER, HOUSING (B)                  |         |
| 1- 8     | M01538900A | PLATE, HOUSING                       |         |
| 1- 9     | M01538800B | HOUSING, MECHA                       |         |
| 1-10     | M00140510A | NAMEPLATE, ESOTERIC B [J, US, C, K]  |         |
|          | 5801413200 | NAMEPLATE, TEAC [E, UK]              |         |
| 1-11     | B00132000A | SCREW, ADJUST                        |         |
| 1-12     | V00112000A | MECHANISM ASSY, LOADING              |         |
| 1-13     | M01487200A | PANEL ASSY, TRAY                     |         |
| 1-14     | V00116001A | TRAY, PAINT                          |         |
| 1-15     | V00112100A | ADAPTER, L                           |         |
| 1-16     | V00112200A | ADAPTER, R                           |         |
| 1-17     | V00112300A | HOLDER, MECHA                        |         |
| 1-18     | M01539000A | HOLDER, HOUSING (A)                  |         |
| 1-19     | E95172100A | PCB ASSY, DVDM V1.051                |         |
| 1-20     | E00753800A | FLAT CABLE, MCH-MAIN                 |         |
| 1-21     | M01487700A | BRACKET, LED                         |         |
| 1-22     | 5801530400 | LENS                                 |         |
| 1-23     | M00390402A | ESCUTCHEON, B (B-CUT)                |         |
| 1-24     | 5801070200 | PWR SPR                              |         |
| 1-25     | M01488600A | BUTTON ASSY, POWER (N01B) [J, K]     |         |
|          | M00614502A | BUTTON ASSY, STOP BR [US, C, E, UK]  |         |
| 1-26     | E95149600A | PCB ASSY, TOGGLE                     |         |
| 1-27     | M01480800A | BRACKET, TOGGLE SW                   |         |
| 1-28     | M01542100A | PLATE, BLIND                         |         |
| 1-29     | M00392000A | HOLDER, BUTTON                       |         |
| 1-30     | M00390300C | ESCUTCHEON, A                        |         |
| 1-31     | M00404600A | CPRSN SPRING, KNOB                   |         |
| 1-32     | M01488700A | BUTTON ASSY, D=8 (N01B) [J, K]       |         |
|          | M00393102A | BUTTON ASSY, D=8 BR [US, C, E, UK]   |         |
| 1-33     | 5801070100 | KNOB SPRING                          |         |
| 1-34     | M01488400A | BUTTON ASSY, PLAY (N01B) [J, K]      |         |
|          | M00614302A | BUTTON ASSY, PLAY BR [US, C, E, UK]  |         |
| 1-35     | M01488500A | BUTTON ASSY, PAUSE (N01B) [J, K]     |         |
|          | M00614402A | BUTTON ASSY, PAUSE BR [US, C, E, UK] |         |
| 1-36     | M01486700A | FRONT PANEL ASSY [J, K]              |         |
|          | M01486720A | FRONT PANEL ASSY [US, C]             |         |
|          | M01486701A | FRONT PANEL ASSY [E, UK]             |         |
| 1-37     | M01480900A | WINDOW, FL                           |         |
| 1-38     | M01487500A | PLATE, BOTTOM                        |         |
| 1-39     | M01494800A | FOOT (A) HEX 18                      |         |
| 1-40     | M01494900A | FOOT (B)                             |         |
| 1-41     | M01495000A | STAND, FOOT                          |         |
| 1-42     | V0011940   | CLAMPER PLATE                        | VNE2251 |
| 1-43     | V0011960   | CLAMPER                              | VNL1924 |



**EXPLODED VIEW-1**

| REF. NO. | PARTS NO.  | DESCRIPTION                            | REMARKS |
|----------|------------|--|---------|
| 1-51     | 5801532510 | SCREW, HEXAGON 3X8SILVER [J, K]        |         |
|          | 5801539500 | SCREW, HEXAGON 3X8BLACK [US, C, E, UK] |         |
| 1-52     | B00132600A | SCREW, VPB 3X8FZC                      |         |
| 1-53     | 5780003004 | SCREW, BPA 3X4FZC                      |         |
| 1-54     | 5781703008 | SCREW, HEXAGON M3X8 (NI)               |         |
| 1-55     | 5783682010 | SCREW, PPP 2X10NI                      |         |
| 1-56     | M01559000A | PLAIN WSHR, 2. 2X5X0.3FNI              |         |
| 1-57     | 5781703006 | SCREW, HEXAGON M3X6 (NI)               |         |
| 1-58     | 5780003018 | SCREW, BPA 3X18FZC                     |         |
| 1-59     | 5783643008 | SCREW, P-TITE PAN M3X8                 |         |
| 1-60     | 5783113006 | SCREW, ZPAT 3X6NB                      |         |
| 1-61     | B00090900A | SCREW, VPBR 3X8FNB                     |         |

# EXPLODED VIEW-2



## EXPLODED VIEW-2

| REF. NO. | PARTS NO.    | DESCRIPTION                     | REMARKS |
|----------|--------------|---------------------------------|---------|
| 2- 1     | M01480000A   | REAR PANEL [J]                  |         |
|          | M01480020A   | REAR PANEL [US, C]              |         |
|          | M01480050A   | REAR PANEL [E, UK]              |         |
|          | M01480004A   | REAR PANEL [K]                  |         |
| 2- 2     | E95150000A   | PCB ASSY, INLET                 |         |
| 2- 3     | E00768700A   | TERMINAL, GND D12               |         |
| 2- 4     | M01480700A   | HEATSINK                        |         |
| 2- 5     | M01539400A   | SHIELD COVER                    |         |
| 2- 6     | E95149700A   | PCB ASSY, OUTPUT                |         |
| 2- 7     | M01259600A   | POLYEST WSHR, 10.5X20X0.2T      |         |
| 2- 8     | E95160200A   | PCB ASSY, V UP                  |         |
| 2- 9     | E95149900A   | PCB ASSY, REG                   |         |
| 2-10     | △ E00753900A | POWER TRANSFORMER [J]           |         |
|          | △ E00804200A | POWER TRANSFORMER [US, C]       |         |
|          | △ E00804300A | POWER TRANSFORMER [E, UK, K]    |         |
| 2-11     | M01487600A   | PLATE, TRANS [J]                |         |
|          | M01487601A   | PLATE, TRANS [US, C, E, UK, K]  |         |
| 2-12     | M01480300A   | CHASSIS, TRANS                  |         |
| 2-13     | E95150200B   | PCB ASSY, MAIN [J, US, C, K]    |         |
|          | E95150210B   | PCB ASSY, MAIN [E, UK]          |         |
| 2-14     | E95150400B   | PCB ASSY, DAC [J]               |         |
|          | E95150410B   | PCB ASSY, DAC [US, C, E, UK, K] |         |
| 2-15     | M01480200A   | BRACKET, PCB                    |         |
| 2-16     | M01480100A   | BRACKET, SIDE                   |         |
| 2-17     | E95150100A   | PCB ASSY, POWER                 |         |
| 2-18     | M00389300C   | CHASSIS, SIDE L                 |         |
| 2-19     | E95149800A   | PCB ASSY, PSW                   |         |
| 2-20     | M01480600A   | BRACKET, POWER SW               |         |
| 2-21     | M01479800A   | CHASSIS, FRAME (L)              |         |
| 2-22     | M01479900A   | CHASSIS, FRAME (R)              |         |
| 2-23     | M00389400C   | CHASSIS, SIDE R                 |         |
| 2-24     | M00389201A   | CHASSIS, FRONT                  |         |
| 2-25     | E95149500A   | PCB ASSY, LED                   |         |
| 2-26     | E95149400A   | PCB ASSY, FRONT [J]             |         |
|          | E95149420A   | PCB ASSY, FRONT [US, C]         |         |
|          | E95149450A   | PCB ASSY, FRONT [E, UK]         |         |
|          | E95149480A   | PCB ASSY, FRONT [K]             |         |
| 2-27     | E00753700A   | FLAT CABLE, FR-DAC              |         |
| 2-28     | M01571300A   | SHEET, SHIELD (CU)-10           |         |
| 2-29     | E95157500A   | PCB ASSY, SCART [E, UK]         |         |
| 2-30     | E00804100A   | FLAT CABLE, MAIN-SCART [E, UK]  |         |
| 2-31     | B00090900A   | SCREW, VPBR 3X8FNB              |         |
| 2-32     | 5783613008   | SCREW, VPCR 3X8NB               |         |
| 2-33     | B00133000A   | SCREW, VPB 2.6X8FZB             |         |
| 2-34     | 5780122610   | SCREW, PAN M2.6X10NB            |         |
| 2-35     | 5781702606   | SCREW, HEXAGON M2.6X6 (NI)      |         |
| 2-36     | 5780144010   | SCREW, PAN SEMS-B M4X10         |         |
| 2-37     | 5780023006   | SCREW, BPA 3X6FNB               |         |
| 2-38     | B00132600A   | SCREW, VPB 3X8FZC               |         |
| 2-39     | B00132900A   | SCREW, VPC 3X6FZC               |         |

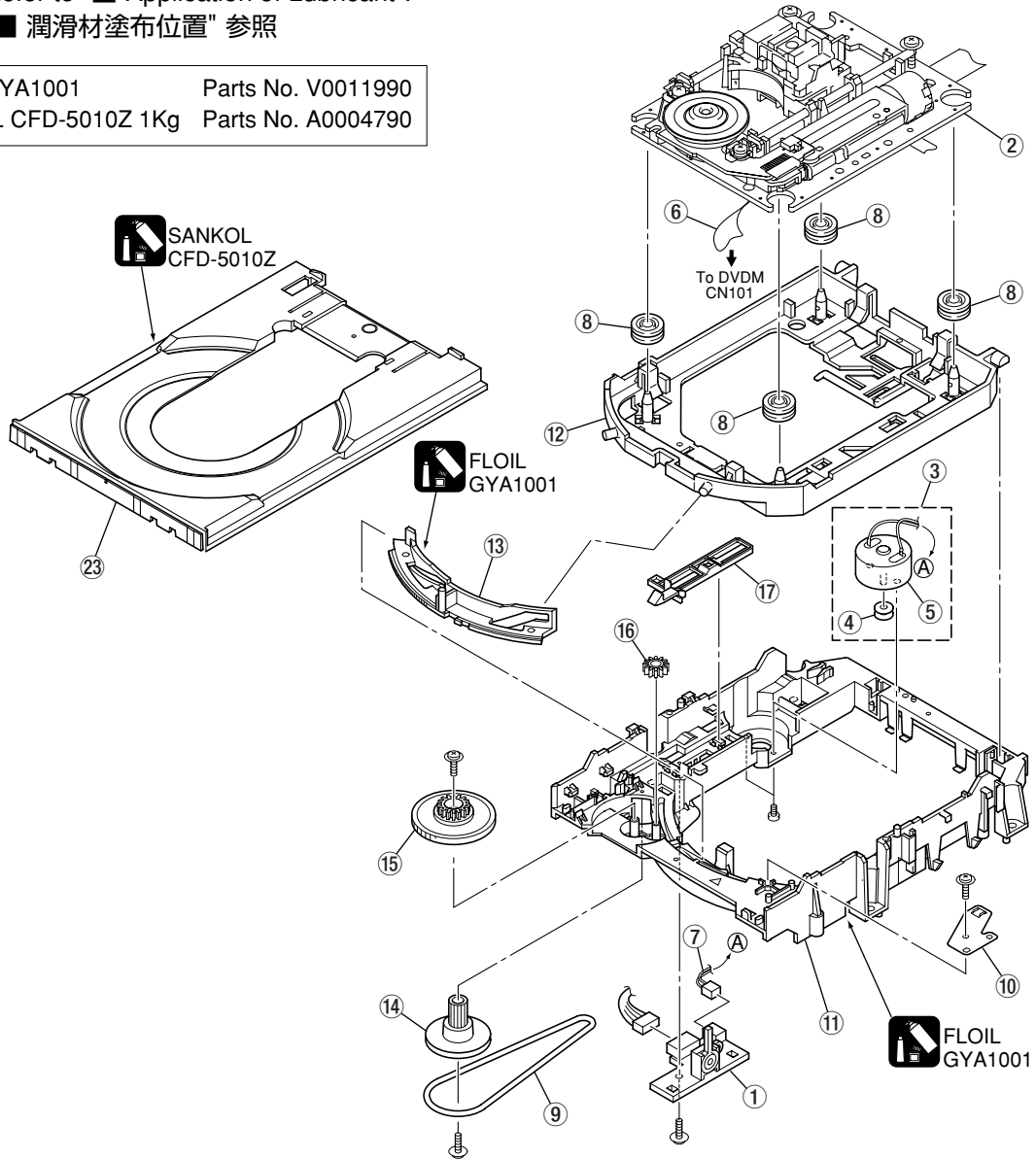
### EXPLODED VIEW-3

**Note :**



Refer to "■ Application of Lubricant".  
"■ 潤滑材塗布位置" 参照

FLOIL GYA1001                      Parts No. V0011990  
SANKOL CFD-5010Z 1Kg        Parts No. A0004790

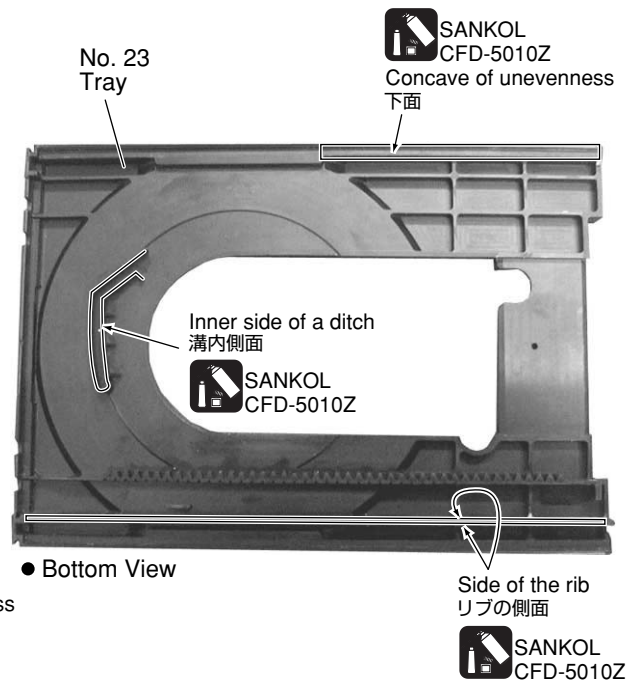
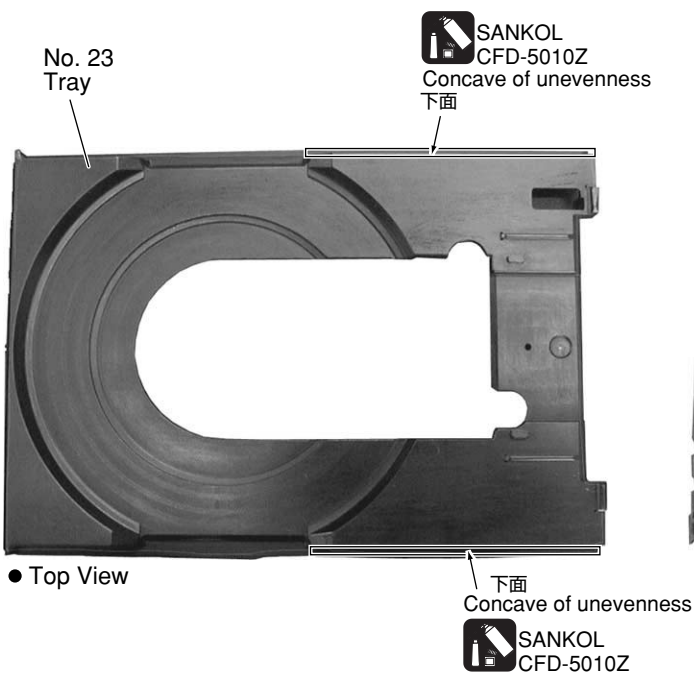
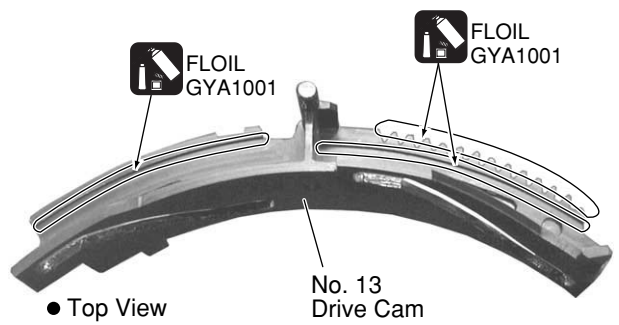
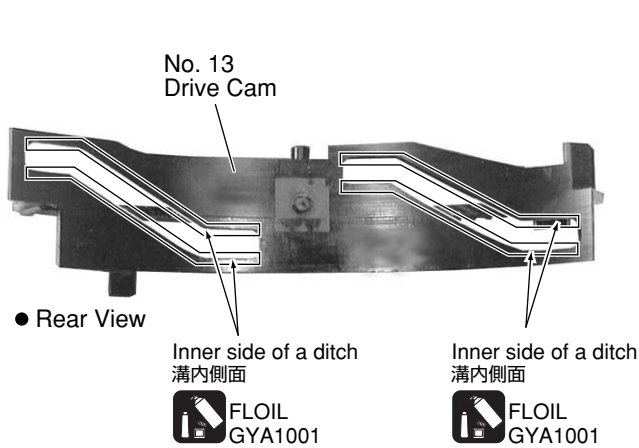
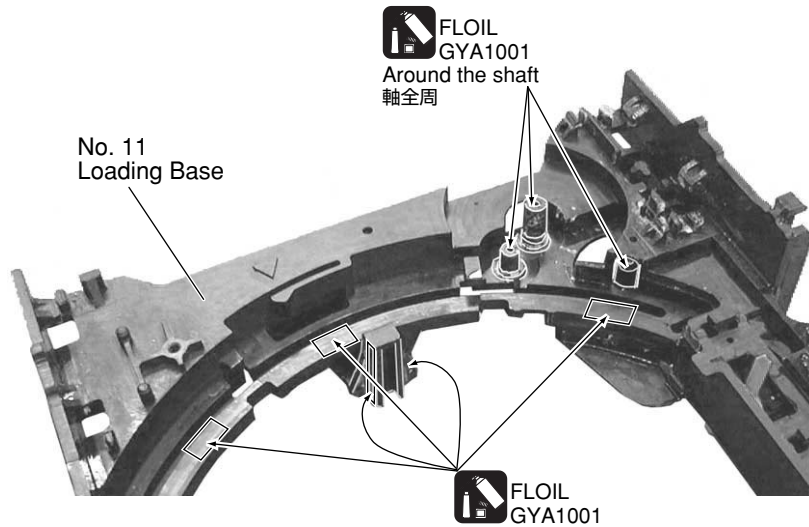


### EXPLODED VIEW-3

| REF. NO. | PARTS NO.  | DESCRIPTION                     |
|----------|------------|---------------------------------|
| 3- 1     | -----      | LOAD ASSY                       |
| 3- 2     | V0011810   | TRAVERSE MECHA    VXX2782       |
| 3- 3     | 9A07683500 | LOADING MOTOR ASSY    VXX2505   |
| 3- 4     | 9A05547300 | MOTOR PULLEY        PNW1634     |
| 3- 5     | 9A07681900 | CARRIAGE DC MOTOR    PXM1027    |
| 3- 6     | V0011820   | FLAT CABLE 26P        VDA1864   |
| 3- 7     | V0011830   | CONNECTOR ASSY 2P    VKP2253    |
| 3- 8     | V0011840   | FLOAT RUBBER         VEB1327    |
| 3- 9     | V0011850   | BELT                    VEB1330 |
| 3-10     | V0011860   | STABILIZER            VNE2253   |

| REF. NO. | PARTS NO.  | DESCRIPTION                   |
|----------|------------|-------------------------------|
| 3-11     | V0011870   | LOADING BASE         VNL1917  |
| 3-12     | V0011880   | FLOAT BASE            VNL1918 |
| 3-13     | V0011890   | DRIVE CAM             VNL1919 |
| 3-14     | V0011900   | GEAR PULLEY         VNL1921   |
| 3-15     | V0011910   | LOADING GEAR         VNL1922  |
| 3-16     | V0011920   | DRIVE GEAR            VNL1923 |
| 3-17     | V0011930   | SWITCH LEVER         VNL1925  |
| 3-23     | V00116001A | TRAY, PAINT                   |

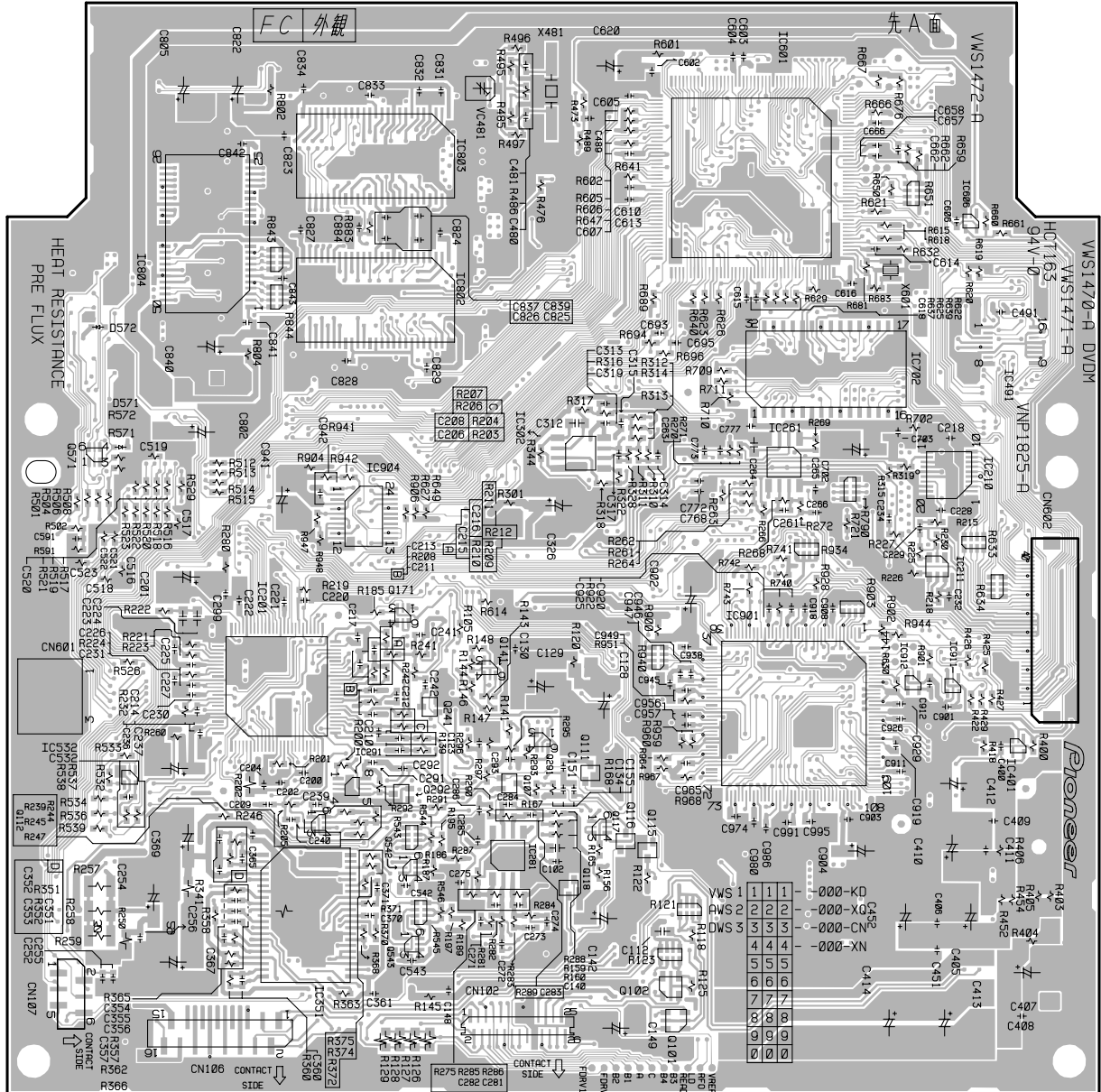
Application of Lubricant 潤滑材塗布位置



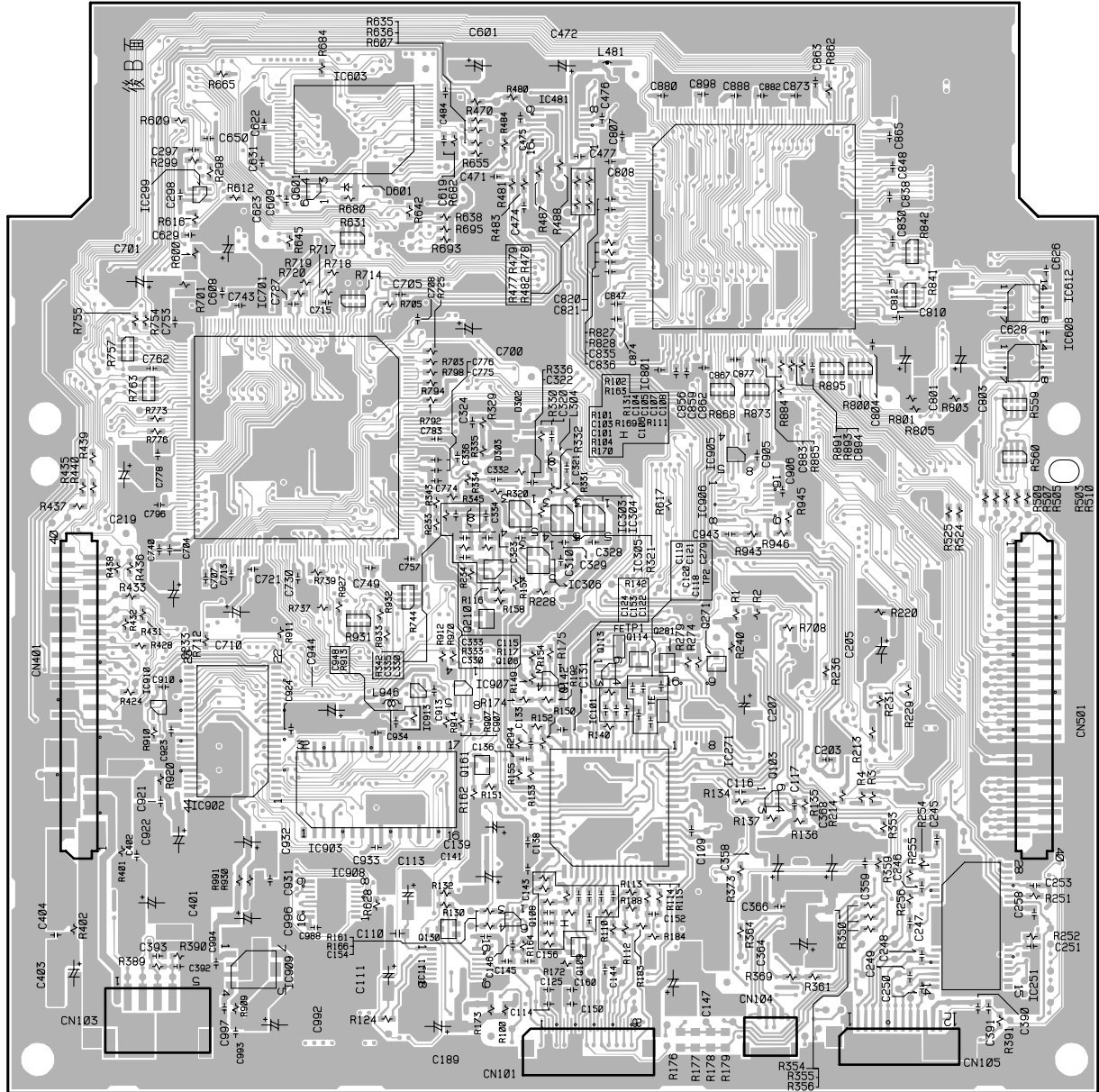
# 7 PC BOARDS AND PARTS LIST

基板図とパーツリスト

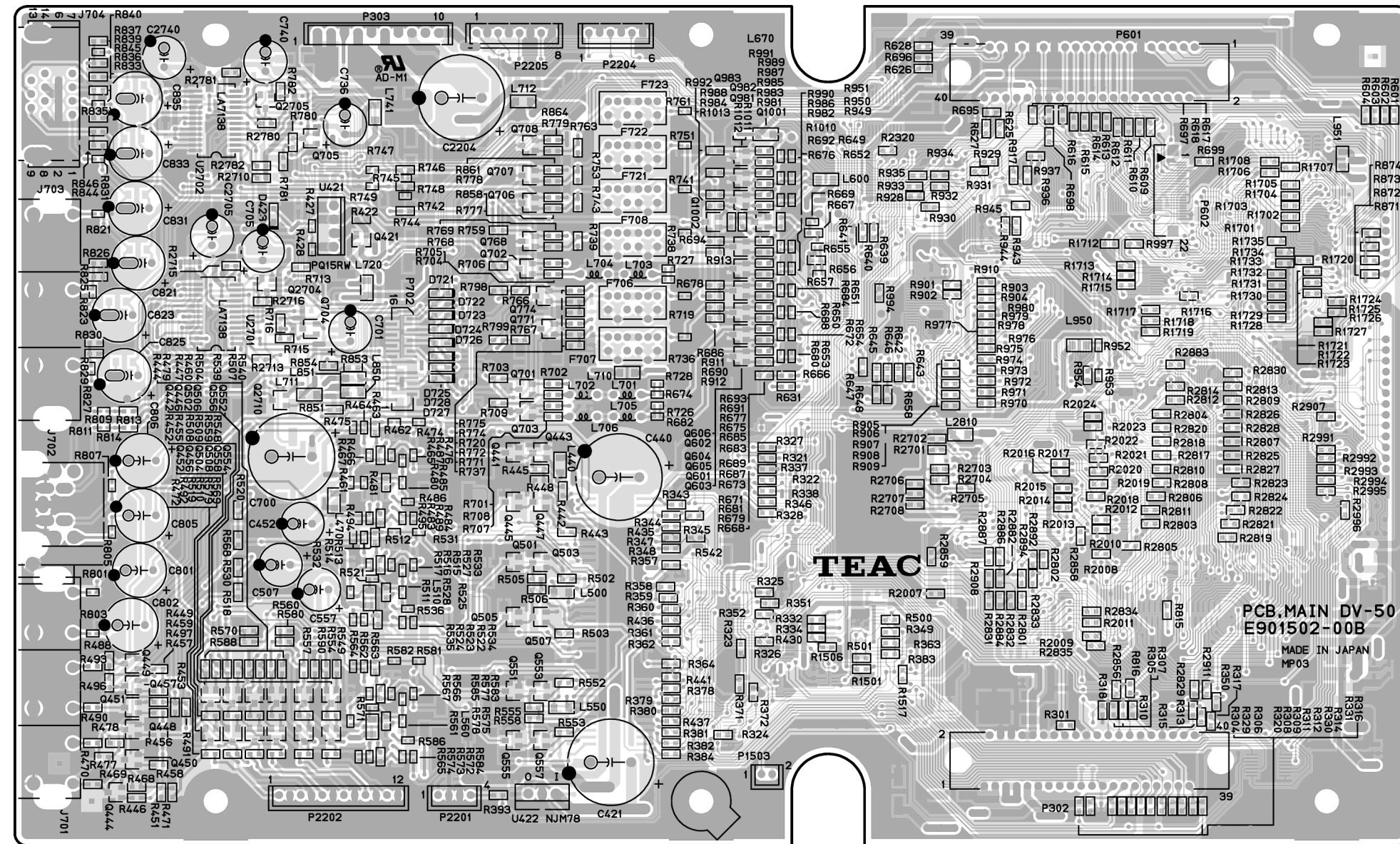
DVDM PCB (SIDE A)



# DVDM PCB (SIDE B)



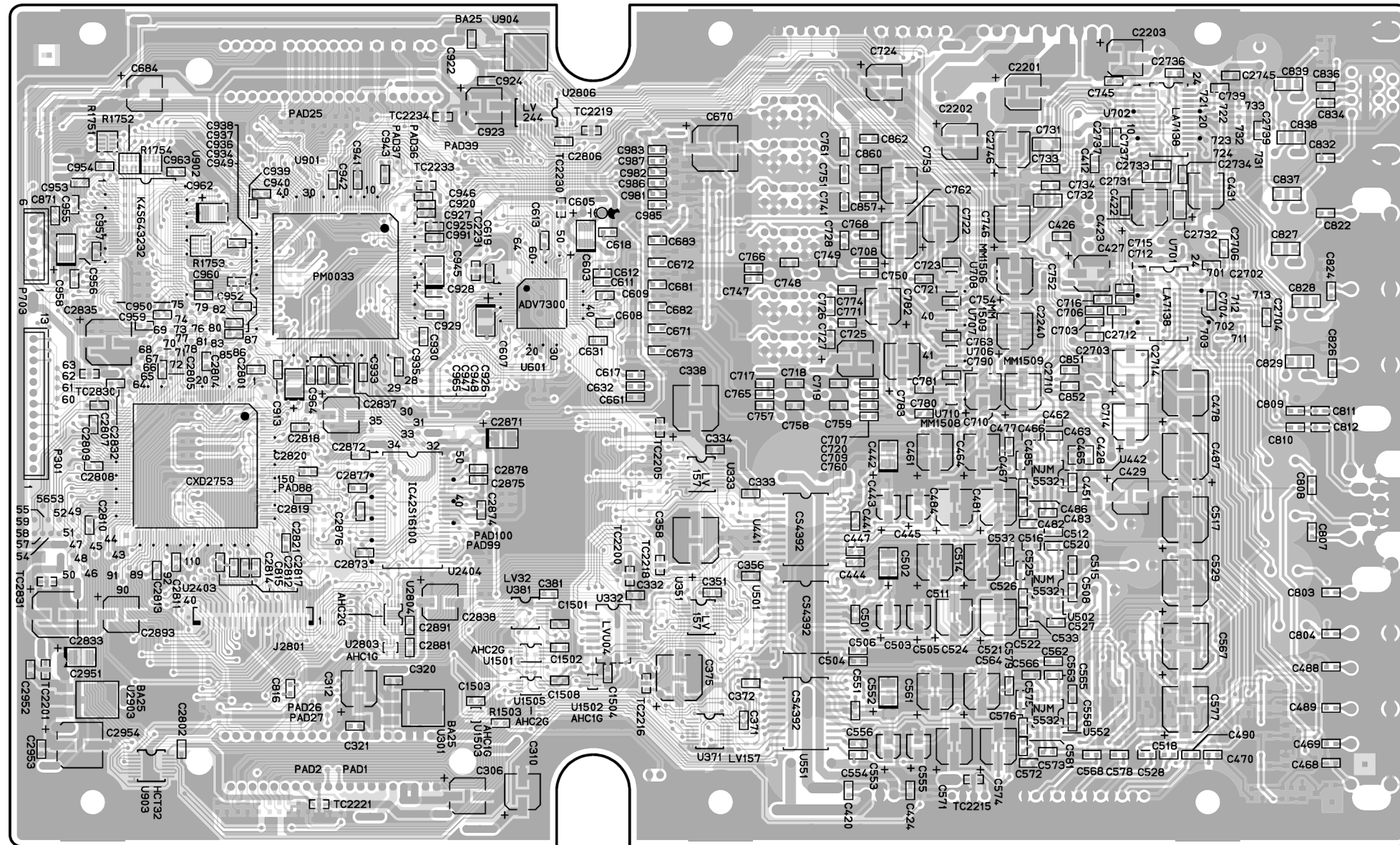
MAIN PCB (SIDE A)



This PCB is a four-layered board.

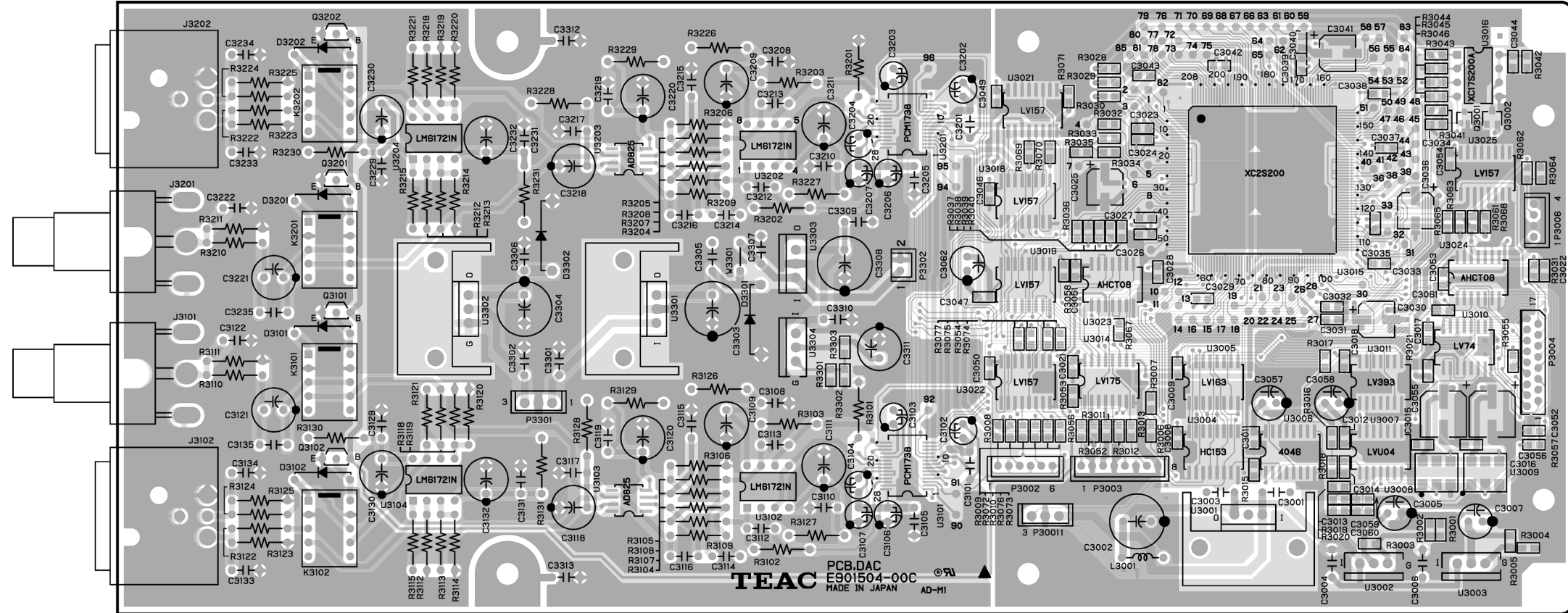


MAIN PCB (SIDE B)



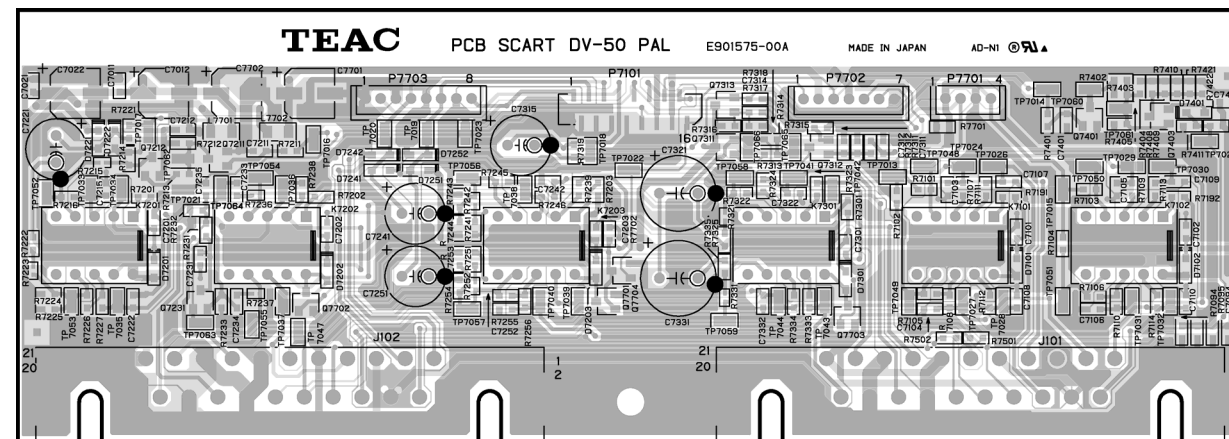
This PCB is a four-layered board.

**DAC PCB**

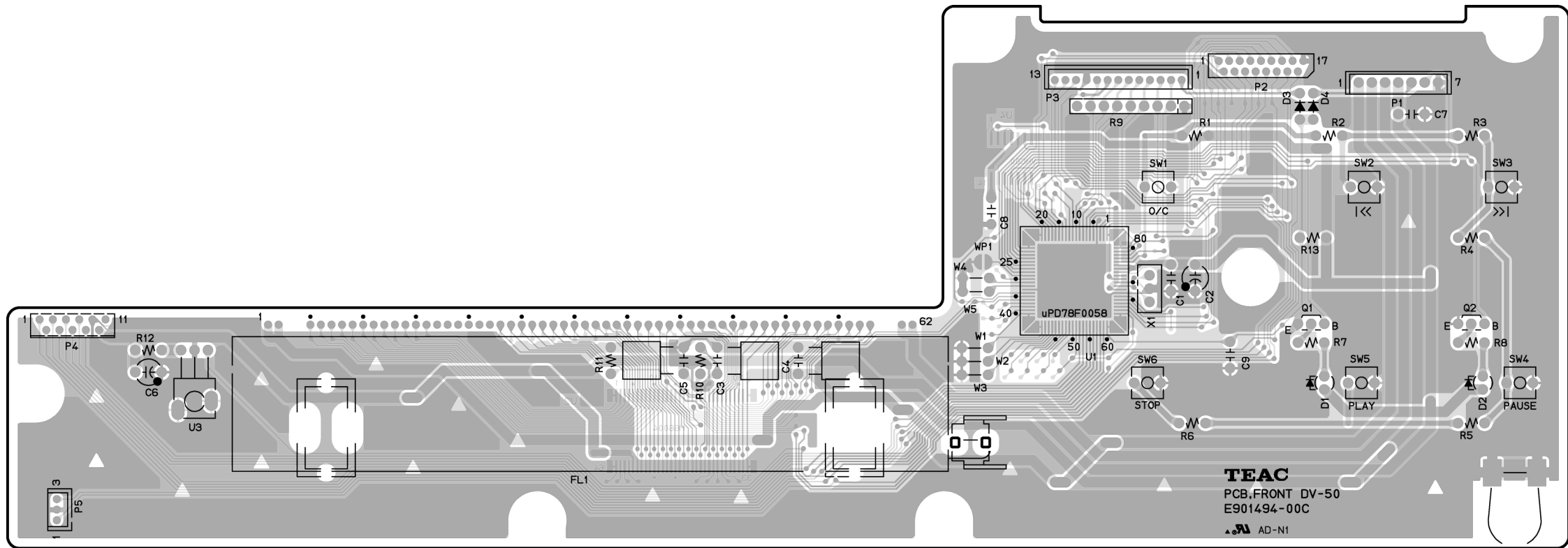


This PCB is a four-layered board.

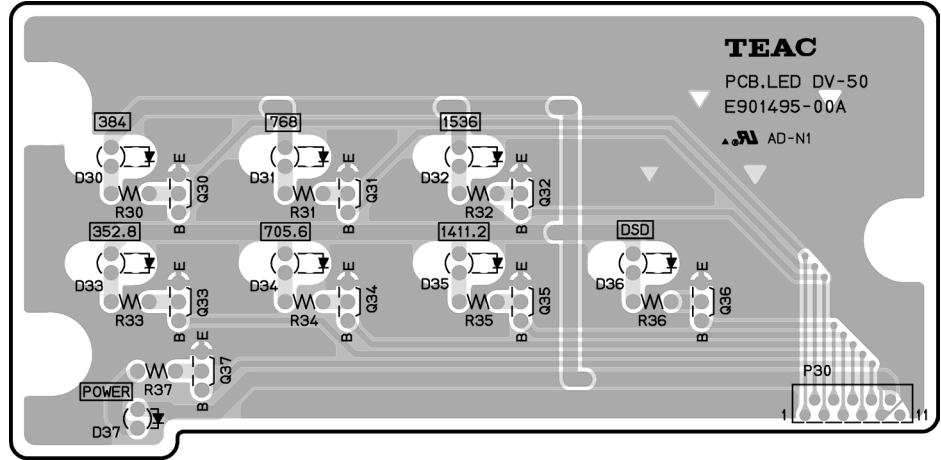
**SCART PCB**



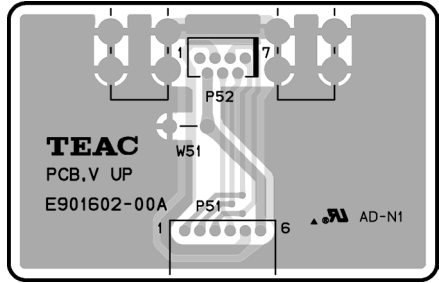
**FRONT PCB**



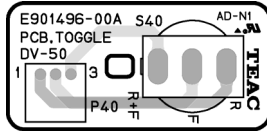
**LED PCB**



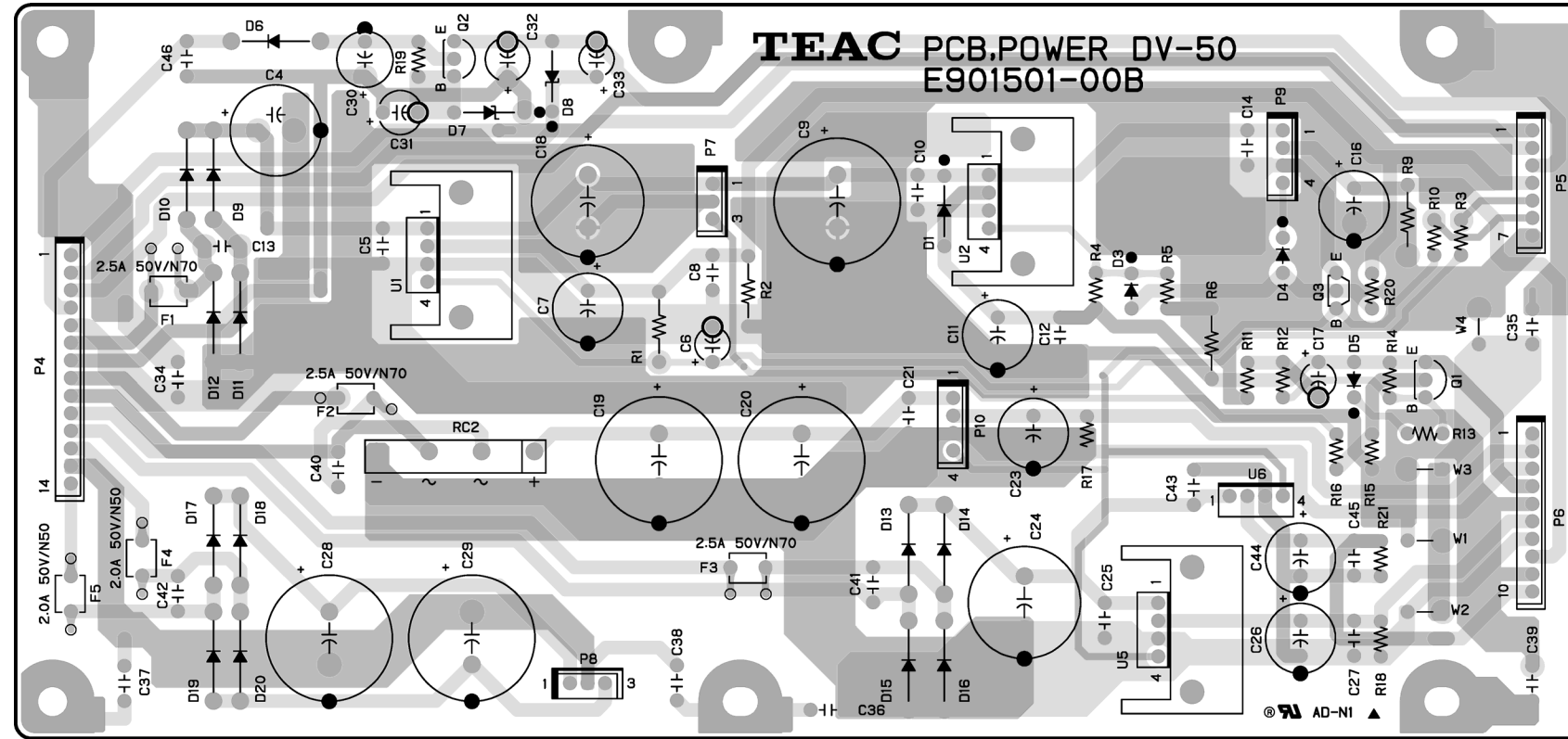
**V UP PCB**



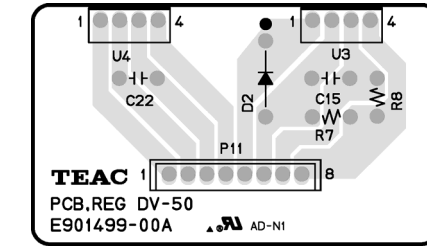
**TOGGLE PCB**



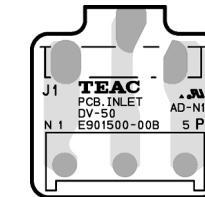
**POWER PCB**



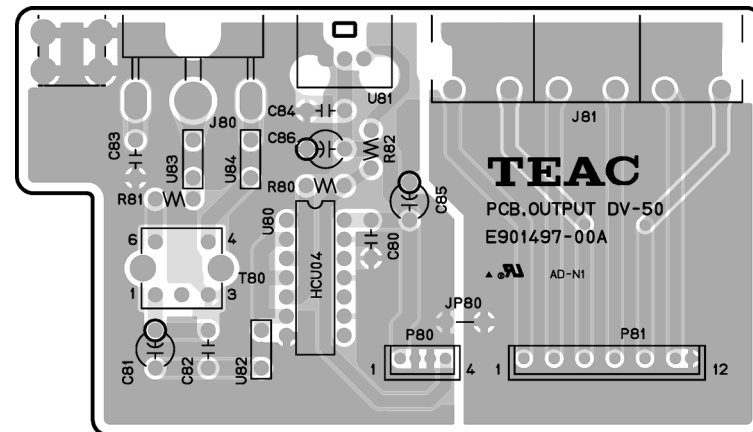
**REG PCB**



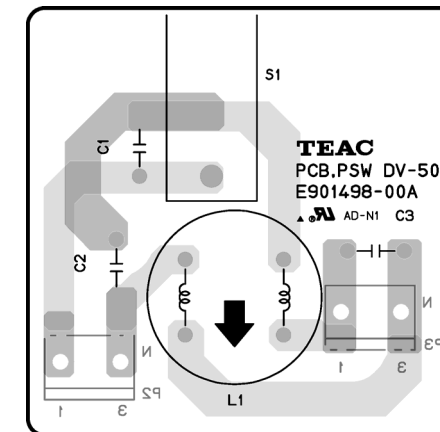
**INLET PCB**



**OUTPUT PCB**



**PSW PCB**



### MAIN PCB ASSY [J,US,C,K]

| REF. NO.     | PARTS NO.  | DESCRIPTION                  |
|--------------|------------|------------------------------|
|              | E95150200B | PCB ASSY, MAIN [J, US, C, K] |
|              | E90150200B | PCB, MAIN                    |
| C421, C440   | 5260467210 | CE, 4700UF 16V M AU          |
| C442         | C0037294   | CS, 47UF 6.3V M TPB          |
| C452         | 5260463720 | CE, 220UF 16V M AU           |
| C502, C552   | C0037294   | CS, 47UF 6.3V M TPB          |
| C507, C557   | 5260463720 | CE, 220UF 16V M AU           |
| C603, C607   | C0037294   | CS, 47UF 6.3V M TPB          |
| C605         | C0035340   | CE, 100UF 16V M SA           |
| C700         | 5260467210 | CE, 4700UF 16V M AU          |
| C701         | C0035340   | CE, 100UF 16V M SA           |
| C705         | C0035340   | CE, 100UF 16V M SA           |
| C736         | C0035340   | CE, 100UF 16V M SA           |
| C740         | C0035340   | CE, 100UF 16V M SA           |
| C746         | C0036264   | CE, 47UF 10V M SVP           |
| C801, C802   | 5260465510 | CE, 1000UF 16V M AU          |
| C805, C806   | 5260465510 | CE, 1000UF 16V M AU          |
| C821, C823   | C0041042   | CE, 1200UF 10V M MV-AX       |
| C825         | C0041042   | CE, 1200UF 10V M MV-AX       |
| C831, C833   | C0041042   | CE, 1200UF 10V M MV-AX       |
| C835         | C0041042   | CE, 1200UF 10V M MV-AX       |
| C945, C956   | C0037294   | CS, 47UF 6.3V M TPB          |
| C962, C964   | C0037294   | CS, 47UF 6.3V M TPB          |
| C2204        | 5260467210 | CE, 4700UF 16V M AU          |
| C2705, C2740 | C0035340   | CE, 100UF 16V M SA           |
| C2746        | C0036264   | CE, 47UF 10V M SVP           |
| C2871, C2951 | C0037294   | CS, 47UF 6.3V M TPB          |
| D423         | S0022094   | DIODE, 1SS355                |
| F721-F723    | E0075210   | FILTER, TH287LSJS-15981      |
| J701         | E0074620   | JACK, YKC21-4432             |
| J702         | E0074640   | JACK, YKF51-5572             |
| J703         | E0074570   | JACK, YKC21-4076             |
| J704         | E0074650   | JACK, YKF45-3007             |
| J2801        | E0074674   | CONNECTOR, 40FLT-SM1-TB      |
| L440, L470   | E0075424   | COIL, FSLB2520-4R7M          |
| L500, L510   | E0075424   | COIL, FSLB2520-4R7M          |
| L550, L560   | E0075424   | COIL, FSLB2520-4R7M          |
| L600, L670   | E0075424   | COIL, FSLB2520-4R7M          |
| L701, L703   | 5286033520 | CHC, 4.7UH K (LAP2T)         |
| L702, L704   | 5286033920 | CHC, 10UH K (LAP2T)          |
| L705         | 5286033520 | CHC, 4.7UH K (LAP2T)         |
| L706         | 5286033920 | CHC, 10UH K (LAP2T)          |
| L710-L712    | E0075424   | COIL, FSLB2520-4R7M          |
| L741         | E0075424   | COIL, FSLB2520-4R7M          |
| L950, L951   | E0075424   | COIL, FSLB2520-4R7M          |
| L2810        | E0075424   | COIL, FSLB2520-4R7M          |
| P301         | 5336250300 | CONN PLUG, B13B-PH-K-S W     |
| P302         | E0074600   | CONNECTOR, IMSA-9852B-40AT   |
| P303         | 5336304000 | CONN PLUG, B10B-EH (WHT)     |
| P601         | E0074600   | CONNECTOR, IMSA-9852B-40AT   |
| P602         | E0020804   | CONNECTOR, 22FLZ-RSM1-TB     |
| P703         | 5336249600 | CONN PLUG, B06B-PH-K-S W     |
| P1503        | 5336249200 | CONN PLUG, B02B-PH-K-S W     |
| P2201        | 5336249400 | CONN PLUG, B04B-PH-K-S       |
| P2202        | 5336250200 | CONN PLUG, B12B-PH-K-S W     |

### MAIN PCB ASSY [J,US,C,K]

| REF. NO.       | PARTS NO.  | DESCRIPTION              |
|----------------|------------|--------------------------|
| P2204          | 5336249600 | CONN PLUG, B06B-PH-K-S W |
| P2205          | 5336249800 | CONN PLUG, B08B-PH-K-S W |
| Q421           | △ 13427500 | TR, 2SC2412KS            |
| Q441, Q443     | S0036084   | TR, DTC114YKA            |
| Q442, Q446     | S0028584   | TR, 2SA1037AK            |
| Q444, Q448     | S0041624   | TR, 2SD2114K             |
| Q445, Q447     | S0036084   | TR, DTC114YKA            |
| Q449, Q451     | S0041624   | TR, 2SD2114K             |
| Q452, Q456     | S0041624   | TR, 2SD2114K             |
| Q501, Q503     | S0036084   | TR, DTC114YKA            |
| Q502, Q506     | S0028584   | TR, 2SA1037AK            |
| Q504, Q508     | S0041624   | TR, 2SD2114K             |
| Q505, Q507     | S0036084   | TR, DTC114YKA            |
| Q551, Q553     | S0036084   | TR, DTC114YKA            |
| Q552, Q556     | S0028584   | TR, 2SA1037AK            |
| Q554, Q558     | S0041624   | TR, 2SD2114K             |
| Q555, Q557     | S0036084   | TR, DTC114YKA            |
| Q601-Q606      | S0028584   | TR, 2SA1037AK            |
| Q701-Q708      | S0028584   | TR, 2SA1037AK            |
| Q1001, Q1002   | S0036084   | TR, DTC114YKA            |
| Q2704, Q2705   | S0028584   | TR, 2SA1037AK            |
| Q2710          | S0036084   | TR, DTC114YKA            |
| R649-R651      | R0112294   | RN, 1/16W 680 OHM D      |
| R652-R654      | R0112254   | RN, 1/16W 470 OHM D      |
| R669           | R0112274   | RN, 1/16W 560 OHM D      |
| R672, R676     | R0112254   | RN, 1/16W 470 OHM D      |
| R674, R678     | R0112294   | RN, 1/16W 680 OHM D      |
| R680           | R0112254   | RN, 1/16W 470 OHM D      |
| R682           | R0112294   | RN, 1/16W 680 OHM D      |
| R684, R688     | R0112274   | RN, 1/16W 560 OHM D      |
| R692           | R0112274   | RN, 1/16W 560 OHM D      |
| R726-R728      | R0112354   | RN, 1/16W 1.2KOHM D      |
| R741, R751     | R0112214   | RN, 1/16W 330 OHM D      |
| R761           | R0112214   | RN, 1/16W 330 OHM D      |
| R801, R803     | R0112044   | RN, 1/16W 62 OHM D       |
| R805, R807     | R0112044   | RN, 1/16W 62 OHM D       |
| R809, R811     | R0112044   | RN, 1/16W 62 OHM D       |
| R821, R823     | R0112044   | RN, 1/16W 62 OHM D       |
| R827, R831     | R0112044   | RN, 1/16W 62 OHM D       |
| R833, R837     | R0112044   | RN, 1/16W 62 OHM D       |
| R953           | R0112354   | RN, 1/16W 1.2KOHM D      |
| R1751-R1754    | R0066824   | R, ARRAY 1/16W 4X100 J   |
| TC2200, TC2201 | E0055764   | FILTER, NFM2012P13C105F  |
| TC2205, TC2215 | E0055764   | FILTER, NFM2012P13C105F  |
| TC2216, TC2218 | E0055764   | FILTER, NFM2012P13C105F  |
| TC2219, TC2221 | E0055764   | FILTER, NFM2012P13C105F  |
| TC2230, TC2231 | E0055764   | FILTER, NFM2012P13C105F  |
| TC2233, TC2234 | E0055764   | FILTER, NFM2012P13C105F  |
| TC2830, TC2831 | E0055764   | FILTER, NFM2012P13C105F  |
| U301           | △ S0048774 | IC, BA25BC0FP-E2         |
| U332           | S0048704   | IC, SN74LVU04ANSR        |
| U333           | S0048844   | IC, SN74LV157APWR        |
| U351, U371     | S0048844   | IC, SN74LV157APWR        |
| U381           | S0048834   | IC, SN74LV32APWR         |
| U421           | △ S0048690 | IC, PQ15RW11             |

### MAIN PCB ASSY [J,US,C,K]

| REF. NO.     | PARTS NO.  | DESCRIPTION           |
|--------------|------------|-----------------------|
| U422         | △ 13447943 | IC, NJM78M05FA        |
| U441         | S0048684   | IC, CS4392-KSR        |
| U442         | 5220450400 | IC, NJM5532M-T2       |
| U501, U551   | S0048684   | IC, CS4392-KSR        |
| U502, U552   | 5220450400 | IC, NJM5532M-T2       |
| U601         | S0048663   | IC, ADV7300A          |
| U701, U702   | S0048854   | IC, LA7138M-TLM       |
| U901         | S0048330   | IC, PM0033A           |
| U902         | S0048873   | IC, K4S643232F-TC60   |
| U903         | S0048934   | IC, SN74HCT32APWR     |
| U904         | △ S0048774 | IC, BA25BC0FP-E2      |
| U1501        | S0048754   | IC, SN74AHC2G74HDCTR  |
| U1502        | S0039384   | IC, SN74AHC1G86HDCKR  |
| U1503        | S0034994   | IC, SN74AHC1G08HDCKR  |
| U1505        | S0048744   | IC, SN74AHC2G157HDCTR |
| U2403        | S0048863   | IC, CXD2753           |
| U2404        | S0048783   | IC, IC42S16100-7T     |
| U2701, U2702 | S0048854   | IC, LA7138M-TLM       |
| U2803        | S0034994   | IC, SN74AHC1G08HDCKR  |
| U2804        | S0048754   | IC, SN74AHC2G74HDCTR  |
| U2806        | S0048634   | IC, SN74LV244APWR     |
| U2903        | △ S0048774 | IC, BA25BC0FP-E2      |

### MAIN PCB ASSY [E,UK]

| REF. NO.     | PARTS NO.  | DESCRIPTION            |
|--------------|------------|------------------------|
|              | E95150210B | PCB ASSY, MAIN [E, UK] |
|              | E90150200B | PCB, MAIN              |
| C421, C440   | 5260467210 | CE, 4700UF 16V M AU    |
| C442         | C0037294   | CS, 47UF 6.3V M TPB    |
| C452         | 5260463720 | CE, 220UF 16V M AU     |
| C502, C552   | C0037294   | CS, 47UF 6.3V M TPB    |
| C507, C557   | 5260463720 | CE, 220UF 16V M AU     |
| C603, C607   | C0037294   | CS, 47UF 6.3V M TPB    |
| C605         | C0035340   | CE, 100UF 16V M SA     |
| C700         | 5260467210 | CE, 4700UF 16V M AU    |
| C701         | C0035340   | CE, 100UF 16V M SA     |
| C705         | C0035340   | CE, 100UF 16V M SA     |
| C736         | C0035340   | CE, 100UF 16V M SA     |
| C740         | C0035340   | CE, 100UF 16V M SA     |
| C746         | C0036264   | CE, 47UF 10V M SVP     |
| C801, C802   | 5260465510 | CE, 1000UF 16V M AU    |
| C805, C806   | 5260465510 | CE, 1000UF 16V M AU    |
| C821, C823   | C0041042   | CE, 1200UF 10V M MV-AX |
| C825         | C0041042   | CE, 1200UF 10V M MV-AX |
| C945, C956   | C0037294   | CS, 47UF 6.3V M TPB    |
| C962, C964   | C0037294   | CS, 47UF 6.3V M TPB    |
| C2204        | 5260467210 | CE, 4700UF 16V M AU    |
| C2705        | C0035340   | CE, 100UF 16V M SA     |
| C2871, C2951 | C0037294   | CS, 47UF 6.3V M TPB    |
| D423         | S0022094   | DIODE, 1SS355          |

### MAIN PCB ASSY [E,UK]

| REF. NO.   | PARTS NO.  | DESCRIPTION                |
|------------|------------|----------------------------|
| D721-D728  | S0022094   | DIODE, 1SS355              |
| F706-F708  | E0079440   | FILTER, TH287LSKS-15952    |
| F721-F723  | E0075210   | FILTER, TH287LSJS-15981    |
| J701       | E0074620   | JACK, YKC21-4432           |
| J702       | E0074640   | JACK, YKF51-5572           |
| J703       | E0074570   | JACK, YKC21-4076           |
| J2801      | E0074674   | CONNECTOR, 40FLT-SM1-TB    |
| L440, L470 | E0075424   | COIL, FSLB2520-4R7M        |
| L500, L510 | E0075424   | COIL, FSLB2520-4R7M        |
| L550, L560 | E0075424   | COIL, FSLB2520-4R7M        |
| L600, L670 | E0075424   | COIL, FSLB2520-4R7M        |
| L701, L703 | 5286033520 | CHC, 4.7UH K (LAP2T)       |
| L702, L704 | 5286033920 | CHC, 10UH K (LAP2T)        |
| L705       | 5286033520 | CHC, 4.7UH K (LAP2T)       |
| L706       | 5286033920 | CHC, 10UH K (LAP2T)        |
| L710-L712  | E0075424   | COIL, FSLB2520-4R7M        |
| L720, L741 | E0075424   | COIL, FSLB2520-4R7M        |
| L850, L851 | E0075424   | COIL, FSLB2520-4R7M        |
| L950, L951 | E0075424   | COIL, FSLB2520-4R7M        |
| L2810      | E0075424   | COIL, FSLB2520-4R7M        |
| P301       | 5336250300 | CONN PLUG, B13B-PH-K-S W   |
| P302       | E0074600   | CONNECTOR, IMSA-9852B-40AT |
| P303       | 5336304000 | CONN PLUG, B10B-EH (WHT)   |
| P601       | E0074600   | CONNECTOR, IMSA-9852B-40AT |
| P602       | E0020804   | CONNECTOR, 22FLZ-RSM1-TB   |
| P702       | E0032364   | CONNECTOR, FMN 16BMT       |
| P703       | 5336249600 | CONN PLUG, B06B-PH-K-S W   |
| P1503      | 5336249200 | CONN PLUG, B02B-PH-K-S W   |
| P2201      | 5336249400 | CONN PLUG, B04B-PH-K-S     |
| P2202      | 5336250200 | CONN PLUG, B12B-PH-K-S W   |
| P2204      | 5336249600 | CONN PLUG, B06B-PH-K-S W   |
| P2205      | 5336249800 | CONN PLUG, B08B-PH-K-S W   |
| Q421       | △ 13427500 | TR, 2SC2412KS              |
| Q441, Q443 | S0036084   | TR, DTC114YKA              |
| Q442, Q446 | S0028584   | TR, 2SA1037AK              |
| Q444       | S0041624   | TR, 2SD2114K               |
| Q445, Q447 | S0036084   | TR, DTC114YKA              |
| Q448-Q452  | S0041624   | TR, 2SD2114K               |
| Q456, Q457 | S0041624   | TR, 2SD2114K               |
| Q501, Q503 | S0036084   | TR, DTC114YKA              |
| Q502, Q506 | S0028584   | TR, 2SA1037AK              |
| Q504, Q508 | S0041624   | TR, 2SD2114K               |
| Q505, Q507 | S0036084   | TR, DTC114YKA              |
| Q551, Q553 | S0036084   | TR, DTC114YKA              |
| Q552, Q556 | S0028584   | TR, 2SA1037AK              |
| Q554, Q558 | S0041624   | TR, 2SD2114K               |
| Q555, Q557 | S0036084   | TR, DTC114YKA              |
| Q601-Q606  | S0028584   | TR, 2SA1037AK              |
| Q701-Q708  | S0028584   | TR, 2SA1037AK              |
| Q768       | S0028584   | TR, 2SA1037AK              |
| Q771, Q774 | S0028584   | TR, 2SA1037AK              |
| Q981-Q983  | S0028584   | TR, 2SA1037AK              |
| Q2704      | S0028584   | TR, 2SA1037AK              |
| Q2710      | S0036084   | TR, DTC114YKA              |
| R649-R654  | R0112294   | RN, 1/16W 680 OHM D        |

## MAIN PCB ASSY [E,UK]

| REF. NO.       | PARTS NO.  | DESCRIPTION             |
|----------------|------------|-------------------------|
| R669           | R0112274   | RN, 1/16W 560 OHM D     |
| R672, R676     | R0112274   | RN, 1/16W 560 OHM D     |
| R674, R678     | R0112294   | RN, 1/16W 680 OHM D     |
| R680           | R0112274   | RN, 1/16W 560 OHM D     |
| R682           | R0112294   | RN, 1/16W 680 OHM D     |
| R684, R688     | R0112274   | RN, 1/16W 560 OHM D     |
| R692           | R0112274   | RN, 1/16W 560 OHM D     |
| R719           | R0112204   | RN, 1/16W 300 OHM D     |
| R726-R728      | R0112354   | RN, 1/16W 1.2KOHM D     |
| R736, R738     | R0112204   | RN, 1/16W 300 OHM D     |
| R741           | R0112214   | RN, 1/16W 330 OHM D     |
| R742, R745     | R0112454   | RN, 1/16W 3.3KOHM D     |
| R747, R749     | R0112514   | RN, 1/16W 5.6KOHM D     |
| R751, R761     | R0112214   | RN, 1/16W 330 OHM D     |
| R801, R803     | R0112044   | RN, 1/16W 62 OHM D      |
| R805           | R0112044   | RN, 1/16W 62 OHM D      |
| R807, R809     | R0112044   | RN, 1/16W 62 OHM D      |
| R811           | R0112044   | RN, 1/16W 62 OHM D      |
| R821, R823     | R0112044   | RN, 1/16W 62 OHM D      |
| R827           | R0112044   | RN, 1/16W 62 OHM D      |
| R949-R951      | R0112054   | RN, 1/16W 68 OHM D      |
| R952           | R0112504   | RN, 1/16W 5.1KOHM D     |
| R982, R986     | R0112234   | RN, 1/16W 390 OHM D     |
| R990           | R0112234   | RN, 1/16W 390 OHM D     |
| R1751-R1754    | R0066824   | R, ARRAY 1/16W 4X100 J  |
| TC2200, TC2201 | E0055764   | FILTER, NFM2012P13C105F |
| TC2205, TC2215 | E0055764   | FILTER, NFM2012P13C105F |
| TC2216, TC2218 | E0055764   | FILTER, NFM2012P13C105F |
| TC2219, TC2221 | E0055764   | FILTER, NFM2012P13C105F |
| TC2230, TC2231 | E0055764   | FILTER, NFM2012P13C105F |
| TC2233, TC2234 | E0055764   | FILTER, NFM2012P13C105F |
| TC2830, TC2831 | E0055764   | FILTER, NFM2012P13C105F |
| U301           | △ S0048774 | IC, BA25BC0FP-E2        |
| U332           | S0048704   | IC, SN74LVU04ANSR       |
| U333           | S0048844   | IC, SN74LV157APWR       |
| U351, U371     | S0048844   | IC, SN74LV157APWR       |
| U381           | S0048834   | IC, SN74LV32APWR        |
| U421           | △ S0048690 | IC, PQ15RW11            |
| U422           | △ 13447943 | IC, NJM78M05FA          |
| U441           | S0048684   | IC, CS4392-KSR          |
| U442           | 5220450400 | IC, NJM5532M-T2         |
| U501, U551     | S0048684   | IC, CS4392-KSR          |
| U502, U552     | 5220450400 | IC, NJM5532M-T2         |
| U601           | S0048663   | IC, ADV7300A            |
| U701, U702     | S0048854   | IC, LA7138M-TLM         |
| U706, U707     | S0050324   | IC, MM1509              |
| U708           | S0050314   | IC, MM1506              |
| U710           | S0050304   | IC, MM1508              |
| U901           | S0048330   | IC, PM0033A             |
| U902           | S0048873   | IC, K4S643232F-TC60     |
| U903           | S0048934   | IC, SN74HCT32APWR       |
| U904           | △ S0048774 | IC, BA25BC0FP-E2        |
| U1501          | S0048754   | IC, SN74AHC2G74HDCTR    |
| U1502          | S0039384   | IC, SN74AHC1G86HDCKR    |
| U1503          | S0034994   | IC, SN74AHC1G08HDCKR    |

## MAIN PCB ASSY [E,UK]

| REF. NO. | PARTS NO.  | DESCRIPTION           |
|----------|------------|-----------------------|
| U1505    | S0048744   | IC, SN74AHC2G157HDCTR |
| U2403    | S0048863   | IC, CXD2753           |
| U2404    | S0048783   | IC, IC42S16100-7T     |
| U2701    | S0048854   | IC, LA7138M-TLM       |
| U2803    | S0034994   | IC, SN74AHC1G08HDCKR  |
| U2804    | S0048754   | IC, SN74AHC2G74HDCTR  |
| U2806    | S0048634   | IC, SN74LV244APWR     |
| U2903    | △ S0048774 | IC, BA25BC0FP-E2      |

## DAC PCB ASSY [J]

| REF. NO.     | PARTS NO.  | DESCRIPTION                |
|--------------|------------|----------------------------|
|              | E95150400B | PCB ASSY, DAC [J]          |
|              | E90150400C | PCB, DAC                   |
|              | M00350800A | HEATSINK, OSH-2435-SPL     |
|              | 5730039200 | HEATSINK, OSH-2425-SPL     |
|              | B00132901A | SCREW, VPC 3X8FZC          |
|              | 5780202606 | SCREW, FLAT M2. 6X6        |
| C3002        | 5260531420 | CE, 100UF 20V M SA         |
| C3005, C3007 | C0040520   | CE, 1000UF 6.3V M MV-AX    |
| C3025, C3030 | C0036264   | CE, 47UF 10V M SVP         |
| C3036, C3041 | C0036264   | CE, 47UF 10V M SVP         |
| C3057, C3058 | C0007510   | CE, 47UF 16V M SA          |
| C3062        | C0007510   | CE, 47UF 16V M SA          |
| C3102-C3104  | C0015320   | CE, 10UF 16V M SS          |
| C3106, C3107 | C0015320   | CE, 10UF 16V M SS          |
| C3109, C3111 | 5260473420 | CE, 100UF 25V M PZ         |
| C3118, C3120 | 5260473420 | CE, 100UF 25V M PZ         |
| C3121, C3221 | C0035340   | CE, 100UF 16V M SA         |
| C3130, C3132 | 5260473420 | CE, 100UF 25V M PZ         |
| C3202-C3204  | C0015320   | CE, 10UF 16V M SS          |
| C3206, C3207 | C0015320   | CE, 10UF 16V M SS          |
| C3209, C3211 | 5260473420 | CE, 100UF 25V M PZ         |
| C3218, C3220 | 5260473420 | CE, 100UF 25V M PZ         |
| C3230, C3232 | 5260473420 | CE, 100UF 25V M PZ         |
| C3303, C3304 | 5260531420 | CE, 100UF 20V M SA         |
| C3308        | 5260531420 | CE, 100UF 20V M SA         |
| C3311        | C0035340   | CE, 100UF 16V M SA         |
| D3101, D3102 | 5224016420 | DIODE, S5688G              |
| D3201, D3202 | 5224016420 | DIODE, S5688G              |
| D3301, D3302 | S0037480   | DIODE, 21DQ04              |
| J3101        | E00353701A | JACK, RCA 1P WHITE NICKING |
| J3102, J3202 | E0038510   | JACK, NC3MBH(XLR)          |
| J3201        | E00353801A | JACK, RCA 1P RED NICKING   |
| K3101, K3102 | 5290015600 | RLY, A-12W-K               |
| K3201, K3202 | 5290015600 | RLY, A-12W-K               |
| L3001        | 5286033920 | CHC, 10UH K(LAP2T)         |
| P3001        | 5336303300 | CONN PLUG, B3B-EH(WHT)     |
| P3002        | 5336249600 | CONN PLUG, B06B-PH-K-S W   |
| P3003        | 5336249800 | CONN PLUG, B08B-PH-K-S W   |
| P3004        | E0075470   | CONNECTOR, 17FMN-BTK-A     |
| P3301        | 5336307300 | CONN PLUG, B3B-EH-Y(YEL)   |

### DAC PCB ASSY [J]

| REF. NO.     | PARTS NO.  | DESCRIPTION                |
|--------------|------------|----------------------------|
| Q3001        | S0022044   | TR, DTC114EUA-T106         |
| Q3002        | S0047644   | TR, DTB113EK-T146          |
| Q3101, Q3102 | 5232255620 | TR, DTC114ESA              |
| Q3201, Q3202 | 5232255620 | TR, DTC114ESA              |
| R3101, R3201 | R0108931   | RN, 1/4W 16KOHM F          |
| R3102, R3202 | R0108611   | RN, 1/4W 750 OHM F         |
| R3103, R3203 | R0108611   | RN, 1/4W 750 OHM F         |
| R3104-R3109  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3110, R3210 | R0108621   | RN, 1/4W 820 OHM F         |
| R3111, R3211 | R0108641   | RN, 1/4W 1.0KOHM F         |
| R3112-R3115  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3118-R3121  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3122, R3124 | R0108581   | RN, 1/4W 560 OHM F         |
| R3123, R3125 | R0108621   | RN, 1/4W 820 OHM F         |
| R3204-R3209  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3212-R3215  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3218-R3221  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3222, R3224 | R0108581   | RN, 1/4W 560 OHM F         |
| R3223, R3225 | R0108621   | RN, 1/4W 820 OHM F         |
| U3001        | △ 13447952 | IC, NJM7805FA              |
| U3002, U3003 | △ S0038210 | IC, NJM317F                |
| U3004        | S0048824   | IC, SN74HC153ANSR          |
| U3005        | S0048814   | IC, SN74LV163ANSR          |
| U3006        | 5220123500 | IC, MC74HC4046AF-FR1       |
| U3007        | S0048704   | IC, SN74LVU04ANSR          |
| U3008        | E00581800A | RESONATOR, COC22AT24.57MHZ |
| U3009        | E00581900A | RESONATOR, COC22AT22.57MHZ |
| U3010        | S0048804   | IC, SN74LV174ANSR          |
| U3011        | S0048964   | IC, SN74LV393ANSR          |
| U3014        | S0048954   | IC, SN74LV175ANSR          |
| U3015        | S0046903   | IC, XC2S200-5PQ208C        |
| U3016        | S00464900C | IC, RD0T DF OTPROM         |
| U3018, U3019 | S0048794   | IC, SN74LV157ANSR          |
| U3021, U3022 | S0048794   | IC, SN74LV157ANSR          |
| U3023, U3024 | S0048974   | IC, SN74AHCT08NSR          |
| U3025        | S0048794   | IC, SN74LV157ANSR          |
| U3101, U3201 | S0048763   | IC, PCM1738E               |
| U3102, U3202 | S0049770   | IC, LM61721N               |
| U3103, U3203 | S0048620   | IC, AD825AR                |
| U3104, U3204 | S0049770   | IC, LM61721N               |
| U3301        | △ 13447956 | IC, NJM7812FA              |
| U3302        | △ 13447973 | IC, NJM7912FA              |
| U3303        | △ 13447952 | IC, NJM7805FA              |
| U3304        | △ S0038210 | IC, NJM317F                |

### DAC PCB ASSY [US,C,E,UK,K]

| REF. NO. | PARTS NO.  | DESCRIPTION                     |
|----------|------------|---------------------------------|
|          | E95150410B | PCB ASSY, DAC [US, C, E, UK, K] |
|          | E90150400C | PCB, DAC                        |
|          | M00350800A | HEATSINK, OSH-2435-SPL          |
|          | 5730039200 | HEATSINK, OSH-2425-SPL          |
|          | B00132901A | SCREW, VPC 3X8FZC               |

### DAC PCB ASSY [US,C,E,UK,K]

| REF. NO.     | PARTS NO.  | DESCRIPTION                |
|--------------|------------|----------------------------|
|              | 5780202606 | SCREW, FLAT M2.6X6         |
| C3002        | 5260531420 | CE, 100UF 20V M SA         |
| C3005, C3007 | C0040520   | CE, 1000UF 6.3V M MV-AX    |
| C3025, C3030 | C0036264   | CE, 47UF 10V M SVP         |
| C3036, C3041 | C0036264   | CE, 47UF 10V M SVP         |
| C3057, C3058 | C0007510   | CE, 47UF 16V M SA          |
| C3062        | C0007510   | CE, 47UF 16V M SA          |
| C3102-C3104  | C0015320   | CE, 10UF 16V M SS          |
| C3106, C3107 | C0015320   | CE, 10UF 16V M SS          |
| C3109, C3111 | 5260473420 | CE, 100UF 25V M PZ         |
| C3118, C3120 | 5260473420 | CE, 100UF 25V M PZ         |
| C3121, C3221 | C0035340   | CE, 100UF 16V M SA         |
| C3130, C3132 | 5260473420 | CE, 100UF 25V M PZ         |
| C3202-C3204  | C0015320   | CE, 10UF 16V M SS          |
| C3206, C3207 | C0015320   | CE, 10UF 16V M SS          |
| C3209, C3211 | 5260473420 | CE, 100UF 25V M PZ         |
| C3218, C3220 | 5260473420 | CE, 100UF 25V M PZ         |
| C3230, C3232 | 5260473420 | CE, 100UF 25V M PZ         |
| C3303, C3304 | 5260531420 | CE, 100UF 20V M SA         |
| C3308        | 5260531420 | CE, 100UF 20V M SA         |
| C3311        | C0035340   | CE, 100UF 16V M SA         |
| D3101, D3102 | 5224016420 | DIODE, S5688G              |
| D3201, D3202 | 5224016420 | DIODE, S5688G              |
| D3301, D3302 | S0037480   | DIODE, 21DQ04              |
| J3101        | E00353701A | JACK, RCA 1P WHITE NICKING |
| J3102, J3202 | E0038510   | JACK, NC3MBH(XLR)          |
| J3201        | E00353801A | JACK, RCA 1P RED NICKING   |
| K3101, K3102 | 5290015600 | RLY, A-12W-K               |
| K3201, K3202 | 5290015600 | RLY, A-12W-K               |
| L3001        | 5286033920 | CHC, 10UH K(LAP2T)         |
| P3001        | 5336303300 | CONN PLUG, B3B-EH(WHT)     |
| P3002        | 5336249600 | CONN PLUG, B06B-PH-K-S W   |
| P3003        | 5336249800 | CONN PLUG, B08B-PH-K-S W   |
| P3004        | E0075470   | CONNECTOR, 17FMN-BTK-A     |
| P3301        | 5336307300 | CONN PLUG, B3B-EH-Y(YEL)   |
| Q3001        | S0022044   | TR, DTC114EUA-T106         |
| Q3002        | S0047644   | TR, DTB113EK-T146          |
| Q3101, Q3102 | 5232255620 | TR, DTC114ESA              |
| Q3201, Q3202 | 5232255620 | TR, DTC114ESA              |
| R3101, R3201 | R0108931   | RN, 1/4W 16KOHM F          |
| R3102, R3103 | R0108611   | RN, 1/4W 750 OHM F         |
| R3104-R3109  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3110, R3210 | R0108621   | RN, 1/4W 820 OHM F         |
| R3111, R3211 | R0108641   | RN, 1/4W 1.0KOHM F         |
| R3112-R3115  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3118-R3121  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3122, R3222 | R0108581   | RN, 1/4W 560 OHM F         |
| R3123, R3223 | R0108621   | RN, 1/4W 820 OHM F         |
| R3124, R3224 | R0108581   | RN, 1/4W 560 OHM F         |
| R3125, R3225 | R0108621   | RN, 1/4W 820 OHM F         |
| R3202, R3203 | R0108611   | RN, 1/4W 750 OHM F         |
| R3204-R3209  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3212-R3215  | R0108871   | RN, 1/4W 9.1KOHM F         |
| R3218-R3221  | R0108871   | RN, 1/4W 9.1KOHM F         |
| U3001        | △ 13447952 | IC, NJM7805FA              |



**DAC PCB ASSY [US,C,E,UK,K]**

| REF. NO.                 | PARTS NO.  | DESCRIPTION                 |
|--------------------------|------------|-----------------------------|
| U3002, U3003 $\triangle$ | S0038210   | IC, NJM317F                 |
| U3004                    | S0048824   | IC, SN74HC153ANSR           |
| U3005                    | S0048814   | IC, SN74LV163ANSR           |
| U3006                    | 5220123500 | IC, MC74HC4046AF-FR1        |
| U3007                    | S0048704   | IC, SN74LVU04ANSR           |
| U3008                    | E00581800A | RESONATOR, COC22AT24. 57MHZ |
| U3009                    | E00581900A | RESONATOR, COC22AT22. 57MHZ |
| U3010                    | S0048804   | IC, SN74LV74ANSR            |
| U3011                    | S0048964   | IC, SN74LV393ANSR           |
| U3014                    | S0048954   | IC, SN74LV175ANSR           |
| U3015                    | S0046903   | IC, XC2S200-5PQ208C         |
| U3016                    | S00464900C | IC, RD0T DF OTPROM          |
| U3018, U3019             | S0048794   | IC, SN74LV157ANSR           |
| U3021, U3022             | S0048794   | IC, SN74LV157ANSR           |
| U3023, U3024             | S0048974   | IC, SN74AHCT08NSR           |
| U3025                    | S0048794   | IC, SN74LV157ANSR           |
| U3101, U3201             | S0048763   | IC, PCM1738E                |
| U3102, U3202             | S0049770   | IC, LM61721N                |
| U3103, U3203             | S0048620   | IC, AD825AR                 |
| U3104, U3204             | S0049770   | IC, LM61721N                |
| U3301 $\triangle$        | 13447956   | IC, NJM7812FA               |
| U3302 $\triangle$        | 13447973   | IC, NJM7912FA               |
| U3303 $\triangle$        | 13447952   | IC, NJM7805FA               |
| U3304 $\triangle$        | S0038210   | IC, NJM317F                 |

**SCART PCB ASSY [E,UK]**

| REF. NO.     | PARTS NO.  | DESCRIPTION             |
|--------------|------------|-------------------------|
|              | E95157500A | PCB ASSY, SCART [E, UK] |
|              | E90157500A | PCB, SCART              |
| C7221, C7241 | 5260463720 | CE, 220UF 16V M AU      |
| C7251, C7315 | 5260463720 | CE, 220UF 16V M AU      |
| C7321, C7331 | 5260465510 | CE, 1000UF 16V M AU     |
| D7101, D7102 | S0022094   | DIODE, 1SS355           |
| D7201, D7203 | S0022094   | DIODE, 1SS355           |
| D7301, D7401 | S0022094   | DIODE, 1SS355           |
| J101, J102   | E0079460   | JACK, YKF41-5038CP      |
| K7101, K7102 | 5290015600 | RLY, A-12W-K            |
| K7201, K7203 | 5290015600 | RLY, A-12W-K            |
| K7301        | 5290015600 | RLY, A-12W-K            |
| L7701, L7702 | E0075424   | COIL, FSLB2520-4R7M     |
| P7101        | E0032364   | CONNECTOR, FMN 16BMT    |
| Q7211        | 13427500   | TR, 2SC2412KS           |
| Q7212        | S0028584   | TR, 2SA1037AK           |
| Q7311-Q7313  | 13427500   | TR, 2SC2412KS           |
| Q7401, Q7403 | 13427500   | TR, 2SC2412KS           |
| Q7701        | S0036084   | TR, DTC114YKA           |
| Q7703, Q7704 | S0036084   | TR, DTC114YKA           |
| R7215, R7223 | R0112054   | RN, 1/16W 68 OHM D      |
| R7242, R7252 | R0112054   | RN, 1/16W 68 OHM D      |
| R7331        | R0112054   | RN, 1/16W 68 OHM D      |

**FRONT PCB ASSY** Part of GATHER A PCB ASSY

| REF. NO. | PARTS NO.  | DESCRIPTION              |
|----------|------------|--------------------------|
|          | E95149400A | PCB ASSY, FRONT [J]      |
|          | E95149420A | PCB ASSY, FRONT [US, C]  |
|          | E95149450A | PCB ASSY, FRONT [E, UK]  |
|          | E95149480A | PCB ASSY, FRONT [K]      |
|          | E90149400C | PCB, FRONT               |
|          | 5555590000 | EARTH PLATE A            |
|          | 5801550500 | SPACER, LH-5 L=16.0      |
|          | M00539300A | HOLDER ASSY, FL          |
| C2, C6   | 5260462720 | CE, 47UF 25V M AU        |
| D1, D2   | S0036900   | LED, L-934MBT (BLUE)     |
| D3, D4   | 5224015020 | DIODE, 1SS133T-77        |
| F1       | E00746900A | ELCTRN RAY DSPL, CM2058  |
| P1       | 5336303700 | CONN PLUG, B7B-EH (WHT)  |
| P2       | E0075470   | CONNECTOR, 17FMN-BTK-A   |
| P3       | 5336250300 | CONN PLUG, B13B-PH-K-S W |
| P4       | E0075530   | CONNECTOR, 11P-1.25FJ    |
| P5       | 5336249300 | CONN PLUG, B03B-PH-K-S W |
| Q1, Q2   | 5232255620 | TR, DTC114ESA            |
| R9       | 13492676   | R, ARRAY 8X47K J         |
| SW1-SW6  | 5302108600 | SW, TACT SKHVBE          |
| U1       | S00498600C | IC, MPU DV-50 V1.02      |
| U2       | S0018723   | IC, M66004FP             |
| U3       | S0046410   | IC, RPM7138-H4           |
| U4       | S0022470   | IC, TC74VHC00F           |
| X1       | E0022490   | RESONATOR, EFO-EC5004A4  |

**LED PCB ASSY** Part of GATHER A PCB ASSY

| REF. NO. | PARTS NO.  | DESCRIPTION           |
|----------|------------|-----------------------|
|          | E95149500A | PCB ASSY, LED         |
|          | E90149500A | PCB, LED              |
|          | M00070300A | SPACER, LED LH-3 L=6  |
|          | M0141690   | HOLDER, LED LF-12     |
| D30-D37  | S0036900   | LED, L-934MBT (BLUE)  |
| P30      | E0075540   | CONNECTOR, 11R-1.25FJ |
| Q30-Q37  | 5232255620 | TR, DTC114ESA         |

**V UP PCB ASSY** Part of GATHER A PCB ASSY

| REF. NO. | PARTS NO.  | DESCRIPTION             |
|----------|------------|-------------------------|
|          | E95160200A | PCB ASSY, V UP          |
|          | E90160200A | PCB, V UP               |
|          | 13180156   | TERMINAL                |
| P51      | 5336287600 | CONN PLUG, S6B-PH-K-S W |
| P52      | E0069070   | CONNECTOR, 07FMN-STK-A  |

**TOGGLE PCB ASSY** Part of GATHER A PCB ASSY

| REF. NO. | PARTS NO.  | DESCRIPTION             |
|----------|------------|-------------------------|
|          | E95149600A | PCB ASSY, TOGGLE        |
|          | E90149600A | PCB, TOGGLE             |
| P40      | 5336287300 | CONN PLUG, S3B-PH-K-S W |
| S40      | E0022170   | SW, TOGGLE 8A1021       |

**POWER PCB ASSY** Part of GATHER B PCB ASSY

| REF. NO. | PARTS NO.    | DESCRIPTION              |
|----------|--------------|--------------------------|
|          | E95150100A   | PCB ASSY, POWER          |
|          | E90150100B   | PCB, POWER               |
|          | M00350800A   | HEATSINK, OSH-2435-SPL   |
|          | B00132901A   | SCREW, VPC 3X8FZC        |
| C4       | △ 5260465010 | CE, 470UF 25V M AU       |
| C6       | 5260461520   | CE, 10UF 25V M AU        |
| C7       | 5260531420   | CE, 100UF 20V M SA       |
| C9       | △ 5260428210 | CE, 4700UF 25V M AS      |
| C11      | 5260531420   | CE, 100UF 20V M SA       |
| C13      | △ 5263168323 | CQ, 0.22UF 50V J         |
| C16      | 5260531420   | CE, 100UF 20V M SA       |
| C17      | 5260462220   | CE, 33UF 25V M AU        |
| C18      | △ C0038240   | CE, 3900UF 25V M MV-AX   |
| C19, C20 | △ 5260428210 | CE, 4700UF 25V M AS      |
| C23      | 5260531420   | CE, 100UF 20V M SA       |
| C24      | △ 5260466310 | CE, 2200UF 35V M AU      |
| C26      | 5260531420   | CE, 100UF 20V M SA       |
| C28, C29 | △ C0040910   | CE, 3300UF 35V M LXZ     |
| C30      | △ 5260463420 | CE, 100UF 50V M AU       |
| C31      | 5260462920   | CE, 47UF 50V M AU        |
| C32      | △ 5260462920 | CE, 47UF 50V M AU        |
| C33      | 5260462920   | CE, 47UF 50V M AU        |
| C40-C42  | △ 5263168323 | CQ, 0.22UF 50V J         |
| C44      | 5260531420   | CE, 100UF 20V M SA       |
| C46      | △ C0040902   | CQ, 0.22UF 100V J        |
| D1       | △ 5224016420 | DIODE, S5688G            |
| D3-D5    | 5224015020   | DIODE, 1SS133T-77        |
| D6       | △ S0049721   | DIODE, 21DQ10-T          |
| D7       | 5224592821   | ZENER DIODE, RD 33ESB1   |
| D8       | 5224585621   | ZENER DIODE, RD6. 2ESB1  |
| D9-D20   | △ S0037480   | DIODE, 21DQ04            |
| F1-F3    | △ E0075602   | FUSE, ICP-N70            |
| F4-F5    | △ 5307045620 | FUSE, ICP-N50            |
| P4       | 5336304400   | CONN PLUG, B14B-EH(WHT)  |
| P5       | 5336303700   | CONN PLUG, B7B-EH(WHT)   |
| P6       | 5336304000   | CONN PLUG, B10B-EH(WHT)  |
| P7       | 5336303300   | CONN PLUG, B3B-EH(WHT)   |
| P8       | 5336307300   | CONN PLUG, B3B-EH-Y(YEL) |
| P9       | 5336305400   | CONN PLUG, B4B-EH-R(RED) |
| P10      | 5336303400   | CONN PLUG, B4B-EH(WHT)   |
| Q1       | 5230012920   | TR, 2SA1015GR            |
| Q2       | △ 5230509100 | TR, 2SB562C              |
| Q3       | 5232255720   | TR, DTC124ESA            |
| RC2      | △ S0048880   | DIODE, D4SBS4            |
| U1       | △ S0018843   | IC, PQ05RR1              |
| U2       | △ S0048730   | IC, PQ30RV31             |
| U5       | △ 5220451800 | IC, PQ12RF11             |
| U6       | △ 5220451800 | IC, PQ12RF11             |

**REG PCB ASSY** Part of GATHER B PCB ASSY

| REF. NO. | PARTS NO.    | DESCRIPTION            |
|----------|--------------|------------------------|
|          | E95149900A   | PCB ASSY, REG          |
|          | E90149900A   | PCB, REG               |
| D2       | △ 5224016420 | DIODE, S5688G          |
| P11      | 5336303800   | CONN PLUG, B8B-EH(WHT) |
| U3       | △ S0048710   | IC, PQ30RV2            |
| U4       | △ S0048720   | IC, PQ3RF33            |

**INLET PCB ASSY** Part of GATHER B PCB ASSY

| REF. NO. | PARTS NO.  | DESCRIPTION               |
|----------|------------|---------------------------|
|          | E95150000A | PCB ASSY, INLET           |
|          | E90150000B | PCB, INLET                |
| J1       | △ E0046640 | CONNECTOR, AC INLET M1910 |

**OUTPUT PCB ASSY** Part of GATHER B PCB ASSY

| REF. NO. | PARTS NO.  | DESCRIPTION                |
|----------|------------|----------------------------|
|          | E95149700A | PCB ASSY, OUTPUT           |
|          | E90149700A | PCB, OUTPUT                |
|          | 13180156   | TERMINAL                   |
|          | 5780202606 | SCREW, FLAT M2. 6X6        |
| C81      | 5260462220 | CE, 33UF 25V M AU          |
| C85, C86 | C0007510   | CE, 47UF 16V M SA          |
| J80      | E00353701A | JACK, RCA 1P WHITE NICKING |
| J81      | E0074630   | JACK, YKC21-4433           |
| T80      | 5320046300 | PULSE TRANS, TC-1027-04    |
| U80      | 13445299   | IC, TC74HCU04AP            |
| U81      | E0074680   | OPT CONN, GP1FA502TZ       |
| U82-U84  | 5292807920 | EMIFLTR, EXC EMT 47PFT     |

**PSW PCB ASSY** Part of GATHER B PCB ASSY

| REF. NO. | PARTS NO.    | DESCRIPTION               |
|----------|--------------|---------------------------|
|          | E95149800A   | PCB ASSY, PSW             |
|          | E90149800A   | PCB, PSW                  |
| C1       | △ E0066080   | SPK KILLER, 0.0047UF 250V |
| L1       | △ 5292806300 | FILTER, FKOB16MH13        |
| P2, P3   | 5336376200   | CONN PLUG, B2P3-VH        |
| S1       | △ E0038520   | SW, PUSH SDDL14000        |

# 8 INCLUDED ACCESSORIES

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## INCLUDED ACCESSORIES

| REF. NO. | PARTS NO.    | DESCRIPTION                         | REMARKS |
|----------|--------------|-------------------------------------|---------|
|          | D00692300B   | OWNER'S MANUAL, J [J]               |         |
|          | D00742000A   | OWNER'S MANUAL, E/F/S [US, C, K]    |         |
|          | D00727800A   | OWNER'S MANUAL, E/F/S [E, UK]       |         |
|          | D00727900A   | OWNER'S MANUAL, G/I/N [E]           |         |
|          | E00781800A   | REMOTE CONTROL UNIT, RC-884 [J, K]  |         |
|          | E00813800A   | REMOTE CONTROL UNIT, RC-908 [US, C] |         |
|          | E00781801A   | REMOTE CONTROL UNIT, RC-887 [E, UK] |         |
|          | 5347006900   | BATTERY, UM-3 [J]                   |         |
|          | 5347007000   | BATTERY, UM-3 [US, C, E, UK, K]     |         |
|          | △ E00309700A | POWER CORD SET, 2P [J]              |         |
|          | △ 5350018800 | POWER CORD SET, 3P [US, C]          |         |
|          | △ 15922303   | POWER CORD SET, 3P [E, K]           |         |
|          | △ 5350018500 | POWER CORD SET, 3P (13A FUSE) [UK]  |         |
|          | M01499300A   | CUSHION, FOOT 40                    |         |
|          | J0079750     | SCREW DRIVER, NDV-5+ [US, C, E, K]  |         |