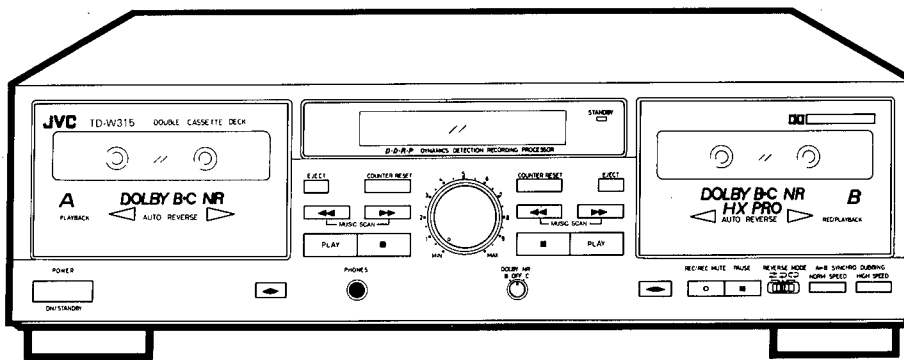


JVC

SERVICE MANUAL

DOUBLE CASSETTE DECK

TD-W315TN C/J
TD-W316BK A/B/E/EN/G/U/UT



COMPU LINK
Component

Area Suffix

| | | |
|----|-------|--------------------|
| A | | Australia |
| B | | U.K. |
| C | | Canada |
| E | | Continental Europe |
| EN | | North Europe |
| G | | Germany |
| J | | U.S.A. |
| U | | Other Areas |
| UT | | Taiwan |

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■ Safety Precautions

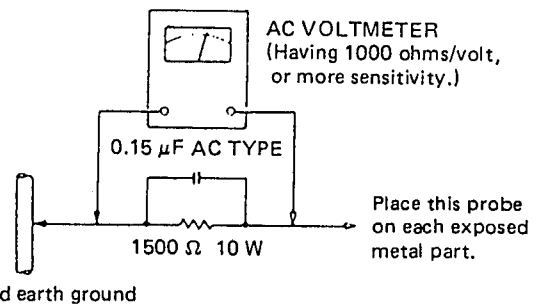
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading and (\triangle) on the schematic diagram and by (\triangle) on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, mpving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exooseed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each

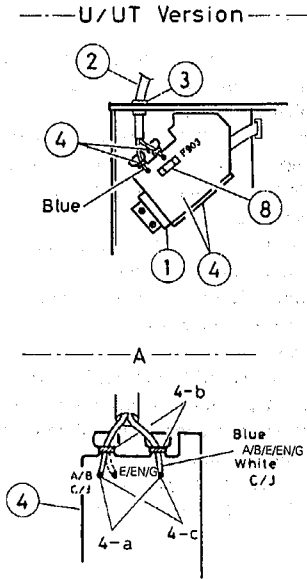
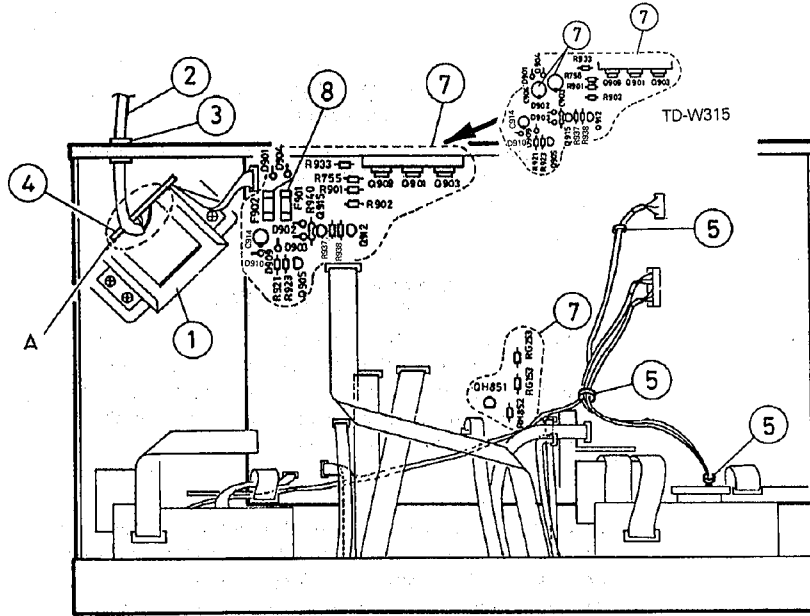


exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.).This corresponds to 0.5mA AC(r.m.s.).

◆ Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintaind.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

◆ Important Management Points Regarding Safety (Items Demanding Special Safety Precautions)



1. Securely fix the power transformer while confirming its marking specified in the following.

| Suffix | Marking | Description | Model |
|------------|--------------|-----------------|---------|
| J | 5216507 | UL approved No. | TD-W315 |
| C | VTP52A5-011F | | TD-W315 |
| A/B/E/EN/G | VTP52Z5-011F | | TD-W316 |
| U/UT | VTP54G5-011F | | TD-W316 |

2. Power cord : Make sure of the following markings and inspect exterior scratch and damage.

| | Power cord | Attachment plug |
|--------|--------------|-----------------|
| J | SPT-1 | KP-10W or SU-1P |
| C | SPT-1 | KP-10 or SU-1 |
| E/EN/G | <VDE> | KP-419C or SE-1 |
| B | BASEC BS6500 | KP-610 3A |
| U/UT | <VDE> | KP-8K |
| A | LTSA-2F | KP-560 |

3. Install the cord bushing by the specified tool while confirming the marking. Bushing : NIFCO 2271

4. Wiring terminal

- When installing the power cord, wind it around the terminal by the end before soldering.
- Arrange the wires while binding them nearby the terminal.
- The end of respective power cords is soldered in the air and the space from others must be 3.2 mm or more in the distance.

5. When arranging every wire and cable, avoid the active power parts, mobiles, heat generating parts, sharp-edged parts, etc.

7. Since the following parts are heat generation ones, they must not contact with electrolytic capacitors, wires, etc.

● Parts in parentheses () are inflammables. Make sure of their lift-up condition for the purpose.

● Parts in box are out of JVC's control.

D901 D902 D903 D904 D909 D910
 Q901 Q903 Q905 Q909 Q912 Q915
QH851 R901 R902 R921 R923 R933
 R937 R938 R940 R755 RH852 RG153
RG253 C914

Other parts

C903 C904 2200μF/25V C/J version (VENT TYPE)
 C914 330μF/25V C/J version (VENT TYPE)

8. All fuses must securely be connected. In A/B/E/EN/G/U/UT version, F901 and F902 must be specified by the rating of 800 mA shown on the surface as well as by the marking of ⊕ or in U/UT version, F903 must be specified by the rating of 315 mA shown on the surface well as by the marking ⊕ or ♡.

■ Features

1. Double auto-reverse mechanism for recording/playback in deck B and playback in deck A
2. Full logic mechanism
3. Dolby* HX PRO headroom extension
4. Dolby B & C noise reduction system
5. DDRP (Dynamics Detection Recording Processor) compatibility
 The DDRP function is possible only when used with a suitable JVC CD player.
6. 2-color FL peak level indicator
7. Digital tape counter respectively for deck A and deck B
8. Synchro start (normal-/high-speed) dubbing
9. Auto tape select mechanism (decks A and B)
10. Multi music scan mechanism for either direction
 "Under License of Staar S.A., Brussels, Belgium"
11. Continuous playback
12. COMPU LINK-3 compatible

COMPU LINK Control System

COMPU LINK control system is the convenient system using COMPU LINK-3 / SYNCHRO terminals on the rear panel. (See page 4 and 9.)

D·D·R·P DYNAMICS DETECTION RECORDING PROCESSOR

This product can be combined with a DDRP (DYNAMICS DETECTION RECORDING PROCESSOR) system (compact disc player + cassette deck, etc.) to enable setting the optimum recording level automatically. Refer to these instructions for details.

- * Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
- * "Dolby", the double-D symbol $\square\square$ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

■ Specifications

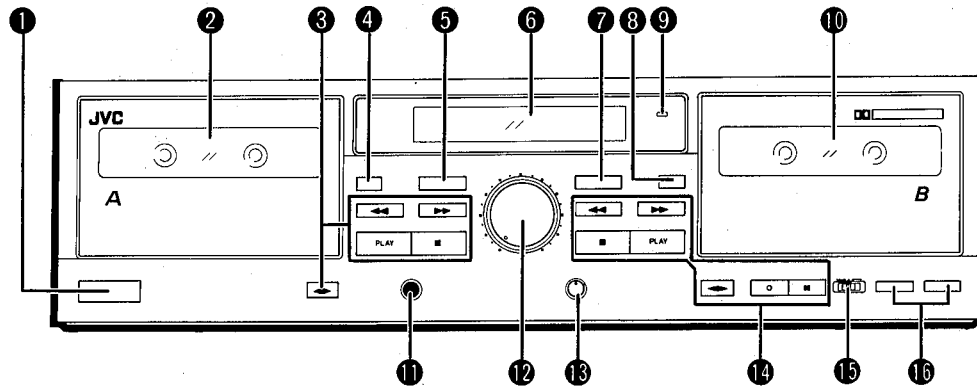
| | |
|---------------------|--|
| Type | : Double cassette deck |
| Track system | : 4-track, 2-channel |
| Tape speed | : 4.8 cm/sec (1-7/8 inch/sec) (Normal) 9.5 cm/sec (3-3/4 inch/sec) (High) |
| Frequency response | : (-20 dB recording) Type IV tape ; 20 - 17,000 Hz 30 - 16,000 Hz (± 3 dB) Type II tape ; 20 - 16,000 Hz 30 - 15,000 Hz (± 3 dB) Type I tape ; 20 - 16,000 Hz 30 - 15,000 Hz (± 3 dB) |
| S/N ratio | : 58 dB (S = 315 Hz, k3 = 3 %, N = A-weighted, Type IV tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with DOLBY B NR on. |
| Improvement of MOL | : 4 dB at 10 kHz with Dolby C NR on. |
| Wow and flutter | : 0.08 % (WRMS), $\pm 0.2\%$ (DIN/IEC) |
| Channel separation | : 40 dB (1 kHz) |
| Crosstalk | : 60 dB (1 kHz) |
| Harmonic distortion | : k3; 0.8% (Type IV tape, 315Hz, 0 VU) |
| Heads | : Deck A; METAPERM head for playback x 1 Deck B; METAPERM head for recording/ playback, 2-gap ferrite head for erasure; Combination head x 1 |

| | |
|------------------------------|---|
| Motors | : Electric governed DC motor for capstan x 1 DC motor for reel x 1 DC motor for mechanism drive x 1 (For both decks A and B) |
| Fast forward/ Rewind time | : Approx. 110 sec. with C-60 cassette |
| Input terminals | |
| LINE IN (x 1 circuit) | : Input sensitivity; 80 mV (0 VU) Input Impedance; 50 k Ω |
| Output terminals | |
| LINE OUT (x 1 circuit) | : Output level; 300 mV (0 VU) Output impedance; 5 k Ω |
| PHONES x 1 | : Output level; 0.3 mW/8 Ω (0 VU) Matching impedance 8 Ω - 1 k Ω |
| Other terminals | : COMPU LINK-3/SYNCHRO x 2 |
| Power requirement | : AC 240 V, 50/60 Hz (Australia/U.K.) AC 120 V, 60 Hz (U.S.A.) |
| Power consumption | : With power switch on 17 W With power switch standby 4.3 W |
| Dimensions (W x H x D) | : 435 x 134 x 328 mm (17-3/16 x 5-5/16 x 12-15/16) |
| Weight | : 4.9 kg (10.9 lbs.) |
| Accessories | : Pin plug cord2 Remote cable1 |

Design and specifications are subject to change without notice.

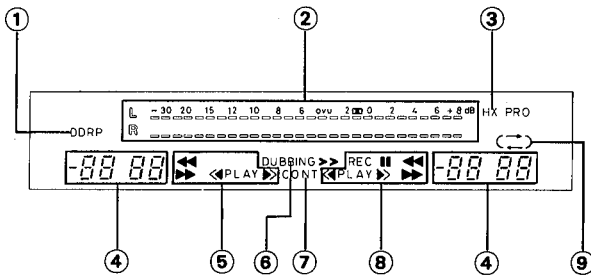
Instructions (Extracts)

NAMES OF PARTS AND THEIR FUNCTIONS



- ① **POWER switch (ON / STANDBY)**
- ② **Cassette holder (deck A)**
- ③ **Cassette operation buttons (deck A)**
 - ◀◀ : Press to wind the tape quickly from right to left.
 - ▶▶ : Press to wind the tape quickly from left to right.
 - PLAY : Press to play the tape.
 - (stop) : Press to stop the tape.
 - ◀▶ (direction) : Press to change the direction of tape travel.
- ④ **EJECT button (deck A)**
- ⑤ **COUNTER RESET button (deck A)**
Press this button to set the digital counter to "0000". Even if the POWER switch is set to STANDBY, the counter value at that time is stored in memory.
- ⑥ **Indicators**

- ⑤ **Mechanism mode indicators (deck A)**
 - ▶▶ : This lights when fast winding the tape left to right.
 - ◀◀ : This lights when fast winding the tape right to left.
 - PLAY : This lights when in the playback.
 - ◀▶ : Indicates the direction of tape travel.
- ⑥ **DUBBING**
 - >> : ">" lights when in the normal-speed dubbing mode.
 - >>> : ">>" lights when in the high-speed dubbing mode.
- ⑦ **CONT** : Lights when the unit is continuous play mode.
- ⑧ **Mechanism mode indicators (deck B)**
 - PLAY : Lights when the unit is in the playback and record modes.
 - ◀▶ : Indicates the direction of tape travel.
 - REC : Lights when the unit is in the record and record-pause modes; blinks during record muting.
 - || : Pause indicator
 - ▶▶ : This lights when fast winding the tape left to right.
 - ◀◀ : This lights when fast winding the tape right to left.



- ① **DDRP indicator**
- ② **Peak level indicator**
These indicators light according to the level of the signal being recorded or the level of the signal recorded on the tape.
Note:
0 dB : IEC (DIN) STANDARD LEVEL (250 nWb/m)
0 VU : Signal level at 160 nWb/m
□□ : DOLBY NR STANDARD LEVEL
- ③ **HX PRO indicator**
- ④ **Digital counter**
The counter reading increases while the tape is running forward and decreases when it is running in reverse. In the Multi Music Scan mode when the ◀◀ (or ▶▶) button is pressed, the number of tunes which will be skipped is displayed.

- ⑤ ◀◀ : Indicates reverse mode.
- ⑦ **COUNTER RESET button (deck B)**
- ⑧ **EJECT button (deck B)**
- ⑨ **STANDBY indicator**
Lights when in the power standby mode.
- ⑩ **Cassette holder (deck B)**
- ⑪ **PHONES jack**
Connect headphones (with an impedance of 8Ω to 1 kΩ).
- ⑫ **INPUT LEVEL control**
- ⑬ **DOLBY NR switch**
Set to B or C for recording using the Dolby NR system or for playing back a tape that was recorded using the Dolby NR system.
Set to OFF when the Dolby NR system is not used.

14 Cassette operation buttons (deck B)

- ◀◀ : Press to wind the tape quickly from right to left.
- ▶▶ : Press to wind the tape quickly from left to right.
- (stop) : Press to stop the tape.
Also press to stop both decks simultaneously during dubbing.
- PLAY : Press to start playback/recording.
- ◀▶(direction) : Press to change the direction of tape travel.
- REC/REC MUTE : Press the PLAY button while pressing this button to start recording, and press to leave an appropriate non-recorded section. (See page 8)
- || PAUSE : Press to stop the tape temporarily during recording and playback. Press the PLAY button to release the pause mode.

15 REVERSE MODE switch

Select the single side or full record/playback mode, or the continuous play mode.

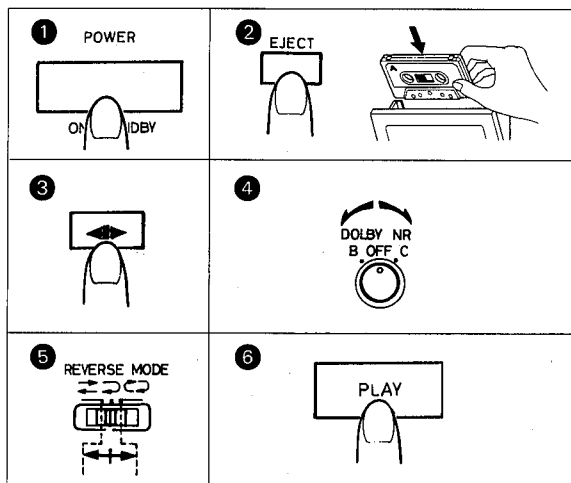
- ↔ : For single-side recording or playback.
- ↔ : To play or record both sides A and B.
- ↔ : To play sides A and B continuously.

16 A ▶ B SYNCHRO DUBBING buttons

Press to dub from deck A to deck B.

- NORM SPEED: Press to perform normal-speed dubbing.
- HIGH SPEED : Press to perform high-speed dubbing.

PLAYBACK



Playback of deck A

Operate in the order of the numbers in the illustration.

- 1 Press the POWER switch to set to ON.
 - 2 Load a prerecorded cassette with side A facing out.
 - 3 Select the side to be played back.
Side A... Forward direction (PLAY ▶▶)
Side B... Reverse direction (◀◀ PLAY)
 - 4 Set the DOLBY NR switch to the same position as when the tape was recorded.
 - 5 Select the REVERSE MODE.
 - 6 Press the PLAY button of deck A to start playback.
- When the deck contains a tape, the deck is turned on automatically and the tape is played back by only pressing the PLAY button.

Playback of deck B

Perform steps 2 to 6 of the above procedure for deck B.

Continuous play

First set the REVERSE MODE switch to ↔.

Load cassette tapes in both decks and press the PLAY button of the deck to be played first for continuous play of both decks.

- At this time, the CONT indicator lights in the multimode display. When the tape in the deck which plays first reaches the end of side B (in the reverse direction), it automatically switches to the forward direction and enters the standby mode. At the same time, the other deck starts playback. These operations continue between decks A and B.
- While one deck is playing back, the cassette in the other one can be replaced. This is convenient to the long-time playback of background music.

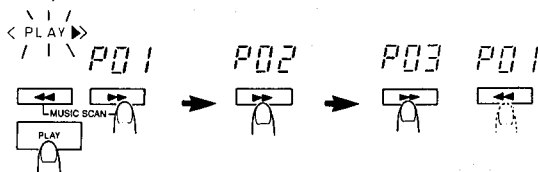
Note:

- Use tapes recorded using the same NR mode in decks A and B.

MULTI MUSIC SCAN

- The multi music scan mechanism of this unit allows you to quickly locate the beginning of a specific tune (up to 99 tunes before or after the current tune).
- The multi music scan mechanism functions by detecting non-recorded sections between tunes (of more than 4~5 sec.).
- The illustration shows the forward direction.

Example of fast forward scan



Procedure

1. Press the PLAY and ▶▶ (or ◀◀) buttons simultaneously.
 2. When more than 2 tunes are to be skipped, after procedure 1 press the ▶▶ (or ◀◀) button the number of times you want to skip tunes. The number of tunes to be skipped is displayed in the counter.
- Relation between Multi Music Scan and REVERSE MODE.
 - ↔ : The Multi music scan mechanism operates on one side of the tape only. If the number set is too high (more than there are tunes remaining on that side), the tape stops when the end of tape is reached.
 - ↔ : It operates continuously through one cycle of the A and B sides of the tape. If the number set has not been reached, the tape stops at the end of the B side.
 - ↔ : It operates continuously through the sequence of side A → B → A or B → A → B. If the number set is not reached, the tape stops at the end of the side from which music scanning was started.
- When the head rotates to play side A from B or B from A, this rotation is counted as one non-recorded section. When a recorded tune continues from side A to B, this tune is recorded as two tunes. In such a case, press the ◀◀ (or ▶▶) button one extra time.

Notes:

- In the following cases, the mechanism may not operate correctly. This is not a malfunction; use the mechanism according to the type of program.
- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with short non-recorded sections.
- Tapes with noise or hum between tunes.

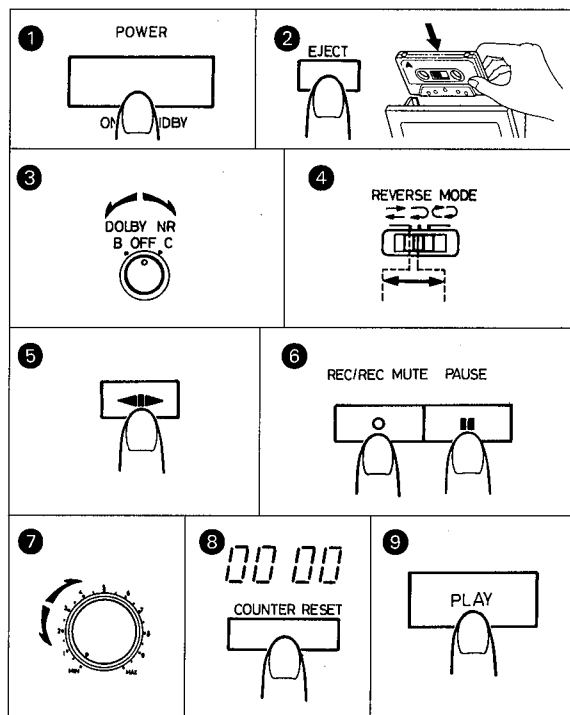
RECORDING

Deck B only

Operate in the order of the numbers in the illustration.

- Make sure the safety tab of the cassette has not been broken off.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.



Manual recording

- 1 Press the POWER switch to set to ON.
- 2 Load a cassette for recording.
- 3 Set the DOLBY NR switch as required.
- 4 Set the REVERSE MODE switch as desired.
- 5 Select the side to be recorded.
- 6 Press the ■ PAUSE button and ○ REC/REC MUTE button (record-pause mode).
REC and ■ indicators light.
- 7 Adjust the recording level. (See page 8.)
- 8 Press to "0000".
- 9 Press the PLAY button to start recording.

Notes:

- When the safety tabs are removed from a cassette tape, the tape cannot be recorded even if you try. Make sure that both tabs are still in place when performing both sides recording.
- During recording, auto reverse can be activated only from the forward to the reverse direction.

DDRP (Dynamics Detection Recording Processor) recording

DDRP recording is performed with suitable JVC CD players and the recording level adjustment is performed automatically. Since recording level adjustment is performed automatically for different types of tape (normal, CrO₂ and metal), the adjustment of INPUT LEVEL control is not required. Read the instruction book of your CD player carefully.

Erasing

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.

To erase a tape without making a new recording...

Follow the section "RECORDING" but in step 7, set the INPUT LEVEL control to MIN.

DOLBY NR and DOLBY HX PRO

Dolby NR System

To reduce the hiss inherent in tape recording, use the Dolby NR System when making recordings. When listening to a tape recorded with the Dolby NR System, set the DOLBY NR switch to B or C according to the system selected in the recording mode.

Note:

The sound quality will change if the positions of the DOLBY NR switch are different in recording and playback.

Dolby HX PRO headroom extension

When a source which contains many high-frequency components is recorded, these high-frequency signals have the same function as bias and therefore, the effective bias current changes.

This will result in phenomena such as changes in the level of low-frequency signal and subsequent distortion and reduction of the high-frequency saturation level.

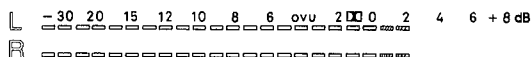
Dolby HX PRO headroom extension system controls the bias current so that the effective bias is constant even when there are fluctuations in the high-frequency components of the input signal.

This greatly improves the high-frequency saturation level while reducing the low-frequency signal level variations and distortion.

- The dynamic sound recorded with this system sounds the same even when the tape is played back in a deck that does not have Dolby HX PRO.
- This system automatically works when in recording; however, Dolby HX PRO is not a noise reduction system.

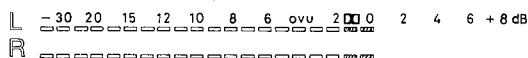
RECORDING LEVEL ADJUSTMENT

Adjust the recording level while observing the peak level indicator indication.



Because of metal tape's higher saturation level, it is OK that "+ 2" lights occasionally.

With normal or chrome tape



It is OK that "+ 0" lights occasionally.

- If "+ 4" lights too often because the recording level is too high, the recorded sound may be distorted and seem to be breaking up. If only "0" lights infrequently, the level is too low and the recording may contain tape hiss.

It is best to adjust so that the maximum sound level of the source to be recorded reaches the very limit of the saturation level of the tape to be used.

The best level varies depending on the type of music and type of tape so it is better to make test recording, using FM music, records, etc.

AUTOMATIC RECORD MUTING (DECK B)

This facility is used to eliminate undesired sections and leave an appropriate non-recorded section.

A. To leave non-recorded sections of about 4-5 seconds automatically

1. When the undesired section comes during recording, press the **O REC/REC MUTE** button and release it.
2. The REC indicator flashes and a non-recorded section is made during record muting operation. About 4-5 seconds later, the tape automatically stops, and the unit enters the record-pause mode.
3. Press the **PLAY** button to start recording again.

B. To leave non-recorded sections of more than 4-5 seconds

1. Keep the **O REC/REC MUTE** button pressed continuously as long as you want to make a non-recorded section. By releasing the finger from the button after the above operation, the unit enters the record-pause mode.
2. Press the **PLAY** button to start recording again.

C. To leave non-recorded section of less than 4 seconds

When the undesired section comes during recording... After the **O REC/REC MUTE** button is pressed, press the **PLAY** button before the unit enters the pause mode to start recording again, or press the **■ PAUSE** button to enter the record-pause mode.

- The peak level indicator lights even during record muting according to the input level which can be heard from the speakers or headphones so that recording can be resumed at the exact point on the tape.

2. Insert a prerecorded tape with side A facing out into deck A, and press the **◀▶** (direction) button to select the travel direction.
3. Insert a blank tape with side A facing out into deck B, and press the **◀▶** (direction) button to select the side to be recorded.
4. Press to "0000".
5. Press the **SYNCHRO DUBBING (NORM or HIGH SPEED)** button to start dubbing.
6. Press the **■** (stop) button of deck B to stop dubbing.

When deck B stops, the dubbing mode is automatically released.

• Synchro record muting

When deck A stops or enters any mode other than the playback mode during dubbing, deck B enters the record mute operation automatically and then enters the record-pause mode.

• Before pressing the SYNCHRO DUBBING button

Confirm that decks B and A are in the stop modes before starting dubbing.

Dubbing and DOLBY NR switch

During dubbing, the same NR mode selected for the playback cassette is applied to the recording cassette, regardless of the position of the NR switch.

Input level

Recording is performed at the same level as the playback tape during dubbing regardless of the position of the INPUT LEVEL control.

Tape editing

1. Press the **O REC/REC MUTE** button when finished dubbing a tune. Deck B automatically enters the record muting mode and leaves a non-recorded section of about 4-seconds then enters the record-pause mode.
2. Press the **■** (stop) button of deck A and search for the next tune you want by using the **▶▶**, **◀◀** or **PLAY** button. Then stop the cassette just before the beginning of the tune.
3. Press the same **SYNCHRO DUBBING** button pressed before the pause again, and dubbing will start.

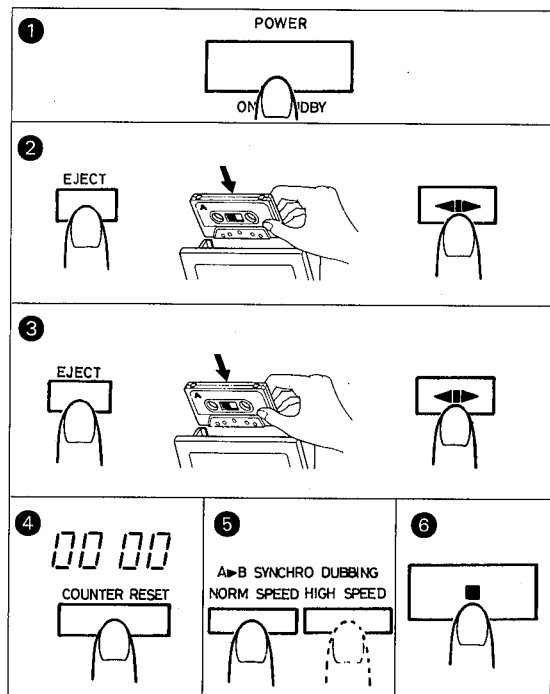
Notes at dubbing

1. Normal-speed dubbing is recommended to obtain good sound quality.
2. Television receivers placed close to the deck may cause interference on the recorded signal when the deck is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.

DUBBING

• Synchro dubbing

Operate in the order of the numbers in the illustration.



- 1 Press the **POWER** switch to set to ON.

CONNECTIONS

- Do not switch the power on until all the connections are completed.
- Insert the plugs firmly, or poor contact will result, causing noise.
- When the pin-plug cords are employed, always connect the white plug to the left channel terminal. This helps to avoid reversed connections.
- When using the Compu Link Control System version 3, do not connect the power cord to the SWITCHED AC OUTLET of an amplifier or receiver. Otherwise, the automatic power on/off (STANDBY) function cannot be carried out.

1. Connection to a stereo amplifier

Note:

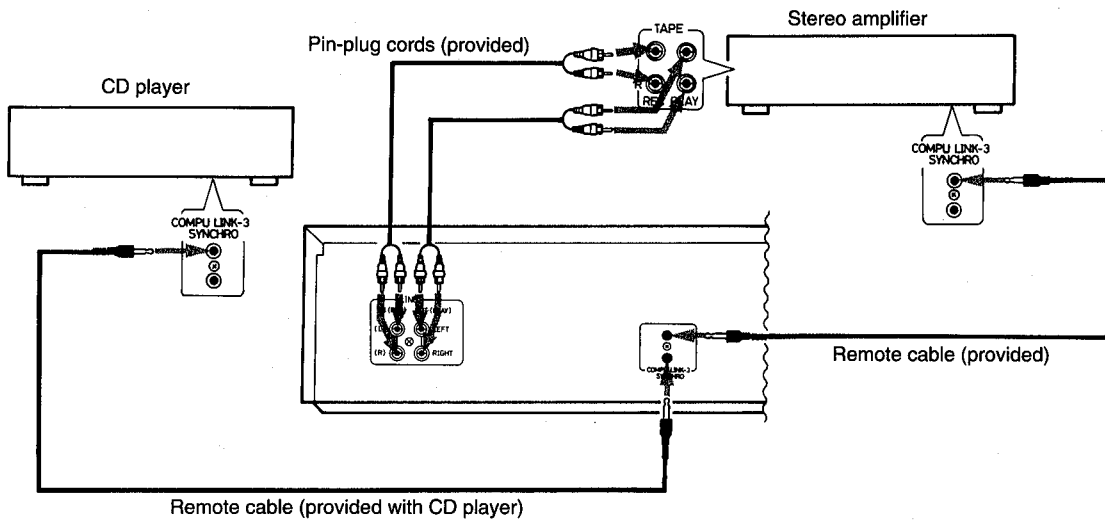
When installing the deck, be sure to install at a distance from your amplifier. If they are stacked, noise (hum) may occur.

2. Remote cable connection for COMPU LINK

- By connecting a remote cable, COMPU LINK functions (automatic power on/off (STANDBY), automatic source selection, synchronized recording and DDRP recording) can be performed.
- When making synchronized recording with a CD player, connect the remote cable to the COMPU LINK-3/SYNCHRO jacks.

Notes:

1. When making synchronized recordings, only a single deck should be connected to the amplifier.
2. If a component is not a JVC COMPU LINK component, bypass it when making the remote cable connections.
3. This deck can be connected with an amplifier and a CD player which have the COMPU LINK-1/SYNCHRO jacks for COMPU LINK performance. (see page 9 for details)



1 Location of Main Parts

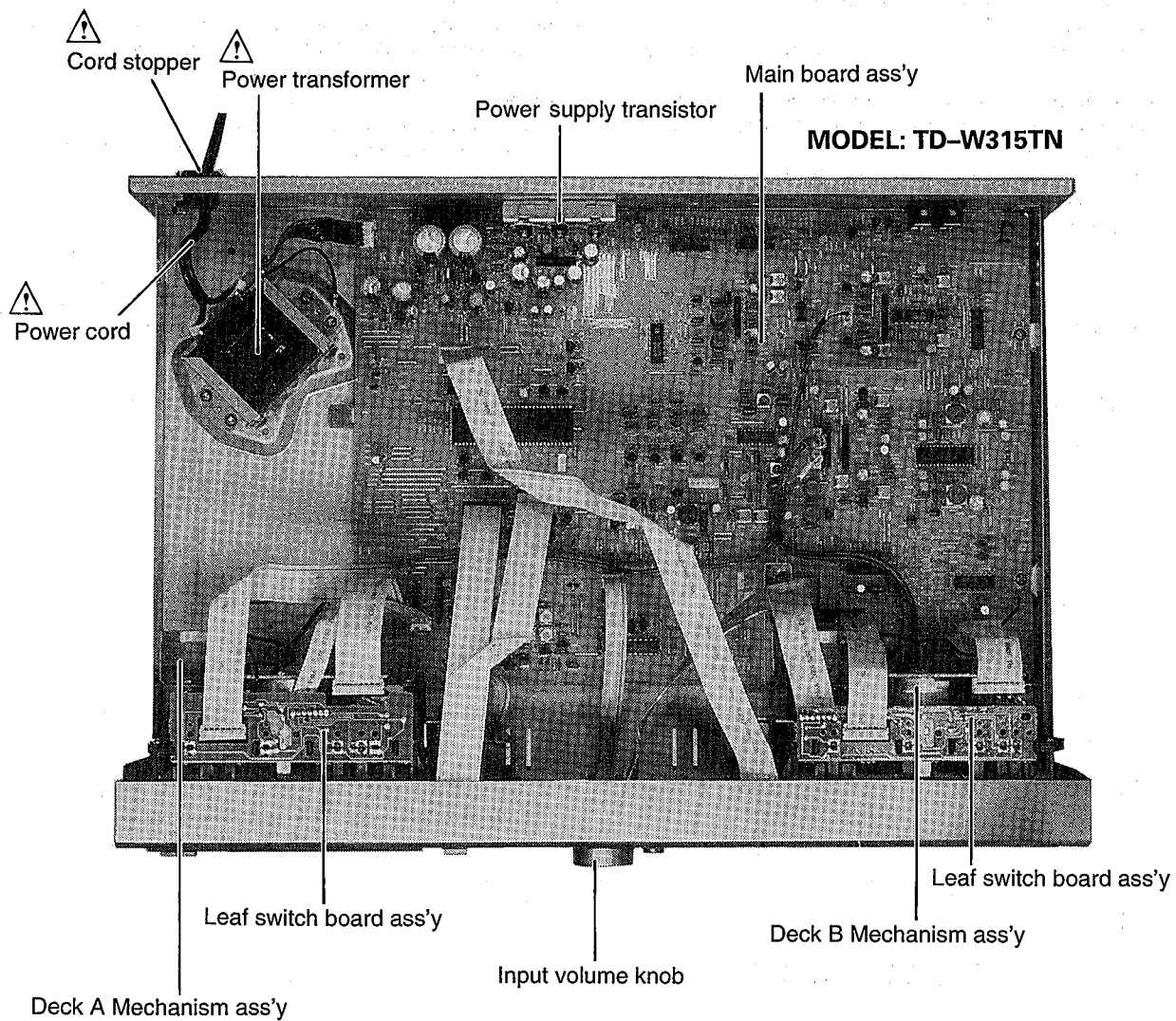


Fig. 1-1

2 Removal of main parts

■ Enclosure Section

◆ Top cover(see Fig 2 - 1)

1. Remove four screws ① retaining the top cover from both side.
2. Remove two screws ② retaining the top cover from the back side.
3. To remove the top cover ,slide in direction of allow and lift away(refer to Fig 2 - 1)

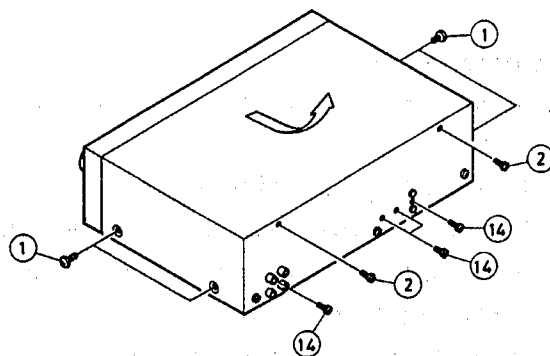


Fig 2 - 1

◆ Front panel assembly

1. Remove the top cover as described in above.
2. Remove three screws ④ retaining the front panel ass'y from bottom side.
3. Release the front panel ass'y from two pawls in the front and bottom sides and draw it to the front side.
4. Disconnect all connectors between the mechanism ass'y, front panel ass'y and the main board ass'y.
5. Remove two screws ⑫ retaining the lug ass'y and main board ass'y.

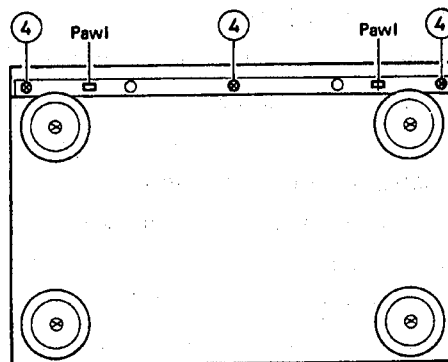


Fig 2 - 2

◆ Mechanism assembly

★ Although the mechanism assembly can be removed without detaching the front panel ass'y, it is recommended to detach the front panel ass'y to do the work with ease.

1. Remove one screw ③ retaining the shield plate to DECK B side on main board.
2. Remove two screws ⑤ or two screws ⑥ from the corners of the mechanism.(see Fig 2 - 5)
3. Open the door and remove the mechanism ass'y.
(At this time, door lock arm spring and door lock arm are removed together with.)

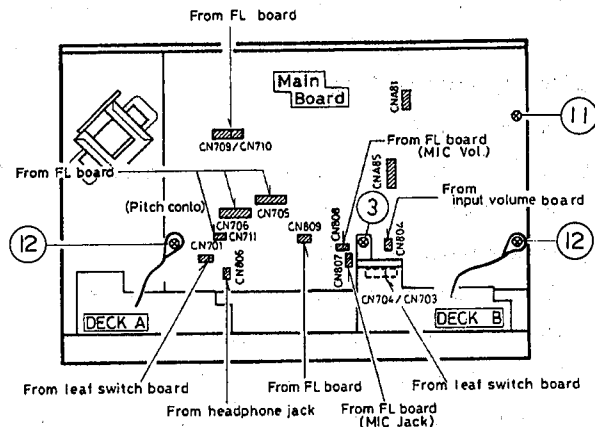


Fig 2 - 3

4. For moving the mechanism ass'y only ,disconnect the following wirings.

a) Mechanism ass'y side(Refer to Fig 2 - 4)

Top side connector of the cam switch board(CN2).

Connector of the motor board(CN1).

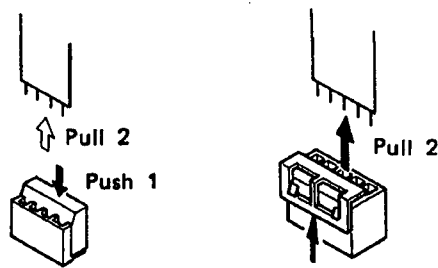
b) Main board ass'y side(Refer Fig 2 - 3)

Disconnect wire coming from the leaf switch from

CN703/CN704 at deckB and CN701 at deckA.

Disconnect wire coming from the head relay board

CNA81 at deckA and CNA85 at deckB.



Push up with a screwdriver, etc. 1

Fig2 - 4

◆ **Eject arm ass'y**

1. Remove two screws ⑦ retaining the eject arm ass'y and pull it out.

◆ **Mechanism holder and door ass'y**

1. Remove four screws ⑧ retaining the mechanism holder.
2. Remove the damper ass'y (for easy reassembling work). Insert an ordinary (-) screwdriver or the like in to the gap between the damper and the front panel to disengage the pawl, and draw the damper ass'y outwards. (see Fig 2 - 6)
3. Remove the arm shaft of the cassette holder (door ass'y) from the mechanism holder. (The door spring is engaged with the door side by the bent side.)

◆ **FL board/Volume board ass'y**

1. After removing the mechanism holder, proceed to the following steps.
2. Pull out the INPUT volume knob.
3. Remove eight screws ⑨ retaining the p.c.board.
4. Lift the board right upwards to remove it since it is connected to the mechanism control key board with connector pins (CN712/CN713).

◆ **Headphone jack ass'y**

1. Remove the PLAY button.
2. Pull the jack ass'y outwards while pushing it down toward the bottom side to remove it.

◆ **Mechanism keyboard ass'y**

1. Remove one screw ⑩ retaining the board ass'y.
2. Do the same for the other side.

◆ **Main board ass'y** (see Fig 2 - 3, Fig 2 - 1)

1. Remove four screws ⑪, ⑫ and ⑬ retaining the board.
2. Remove four screws ⑭ retaining the board to the rear panel.

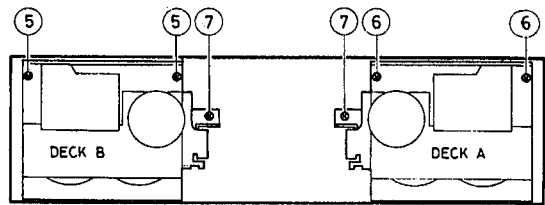


Fig 2 - 5

How to remove damper

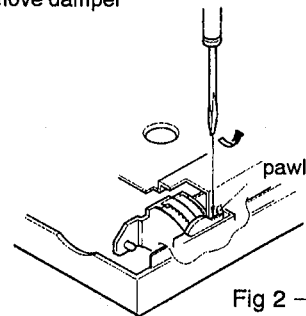


Fig 2 - 6

How to engage the door and eject spring

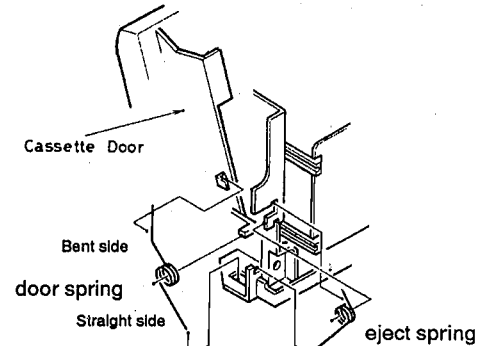


Fig 2 - 7

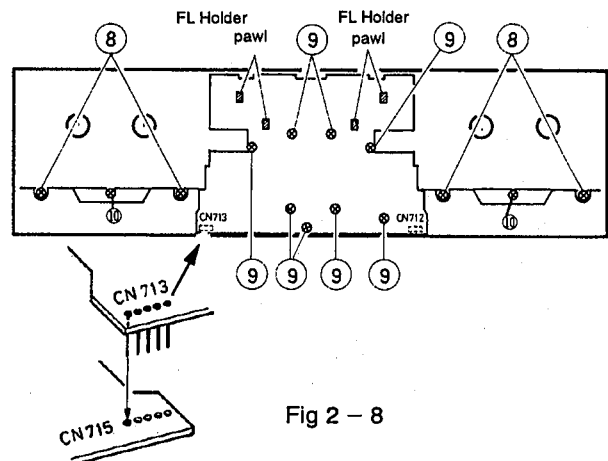


Fig 2 - 8

● Reassembling procedure of the front panel ass'y

1. Attach the mechanism control switch board to the panel with one screw.
2. Install the FL board .
3. Put the door ass'y and the mechanism holder together with on the front panel.
4. Attach the mechanism holder to the front panel ass'y with two screws.
5. Engage the door spring properly.
6. Install the damper .(Push the pawl side last to engage it.)
7. Install the eject arm ass'y.
8. Install the mechanism ass'y
9. Engage the eject spring.

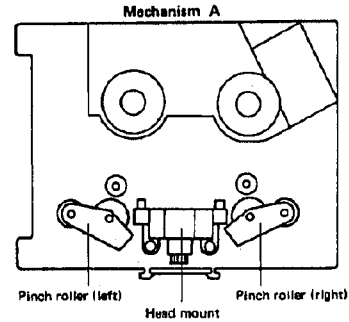


Fig 2 - 9

■ Cassette mechanism section

◆ Head mount assembly (Fig2-9, Fig2-10)

1. Release the head wire relay board from two pawls.
2. Remove two screws ① retaining the head mount ass'y.
3. Remove the head gear (1) and head spring.

◆ Pinch foller assembly (Fig2-9, Fig2-11)

1. Remove return spring by disengaging the pawl hooking it.
2. Remove the pinch roller spring.
3. For reengaging the spring, refer to the figures (A) and (B).
 (see Fig 2 - 11)

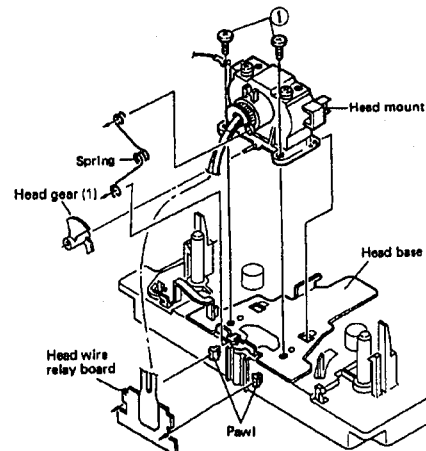


Fig 2 - 10

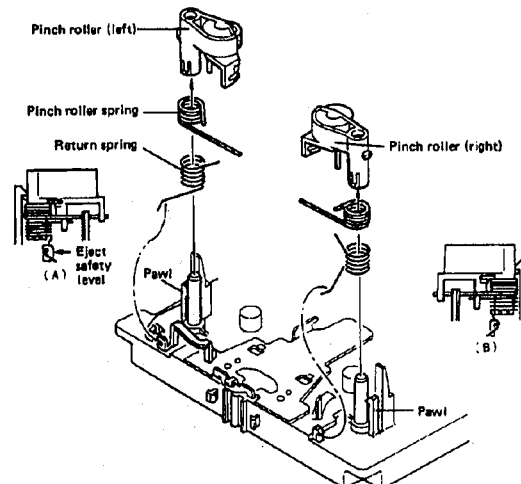


Fig 2 - 11

◆ **FM bracket/Capstan motor assembly**(Fig.2-12,2-13)

1. Remove soldering to separate the drive motor and the motor ass'y. (Mechanism A or B)
2. Remove one screw ② retaining the FM bracket to-gether.
3. Remove two screws ③ and disengage five pawls, and then the FM bracket and the capstan belt (mechanism A and B) can be removed.
4. Remove two screws ④ retaining the capstan motor from the FM bracket .
5. For reengaging the capstan belt, refer to Fig.2-14.

◆ **Actuator motor assembly** (Fig.2-15)

1. Release the actuator motor ass'y from three pawls.

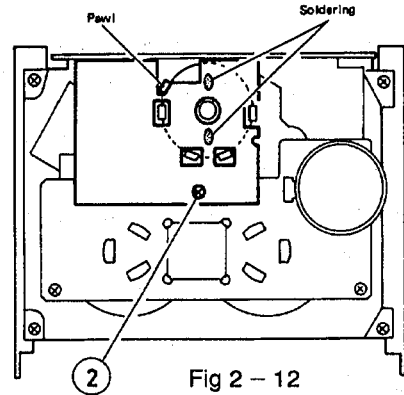


Fig 2 - 12

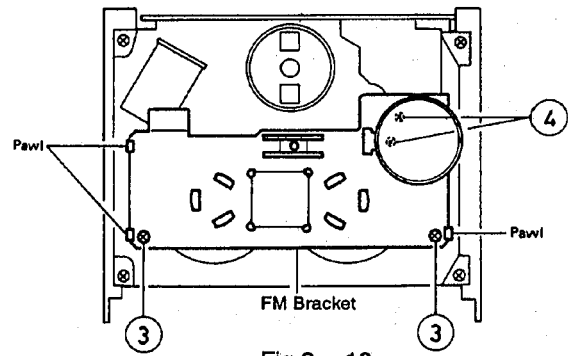


Fig 2 - 13

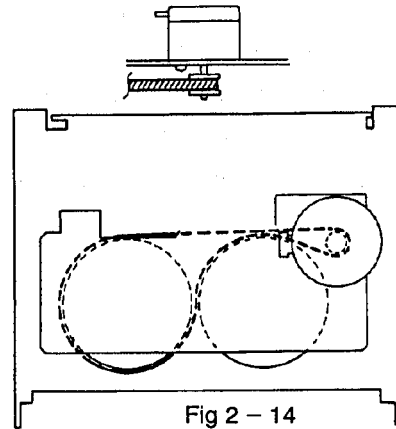


Fig 2 - 14

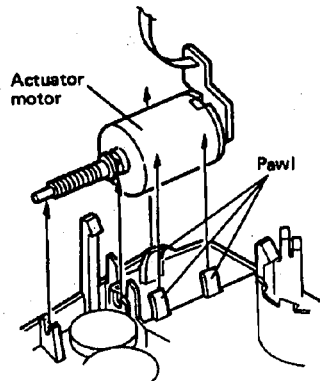


Fig 2 - 15

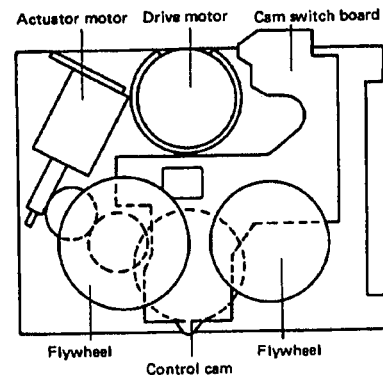


Fig 2 - 16

◆ **Flywheel assembly** (Fig.2-16, Fig.2-17)

1. Remove washers from the capstan shaft and draw them out.

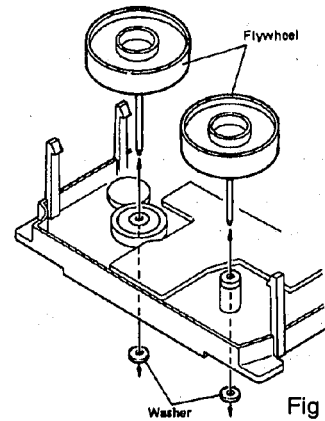


Fig 2 - 17

◆ **Drive motor** (Fig.2-15, Fig.2-18)

1. Pull out the gear and arm assembly from the drive motor shaft.
2. Remove screw ⑤ retaining the drive motor.
3. Disengage four pawls to release the drive motor.

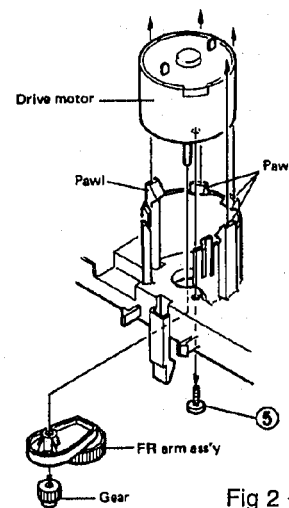


Fig 2 - 18

◆ **Cam switch board** (Fig.2-16, Fig.2-19)

1. Release the cam switch board from six pawls.
2. For gearing between the cam switch board and control cam, see the magnified illustration in a circle.

◆ **Actuator gear (large)** (Fig.2-16, Fig.2-20)

1. Release the actuator gear (large) from three pawls.

◆ **Control cam** (Fig.2-16, Fig.2-20)

1. Release the control cam from two pawls.
2. For assembling the control cam, see the magnified illustration in a circle.

◆ **Actuator gear (small)** (Fig.2-16, Fig.2-20)

1. Release the actuator gear (small) from two pawls.

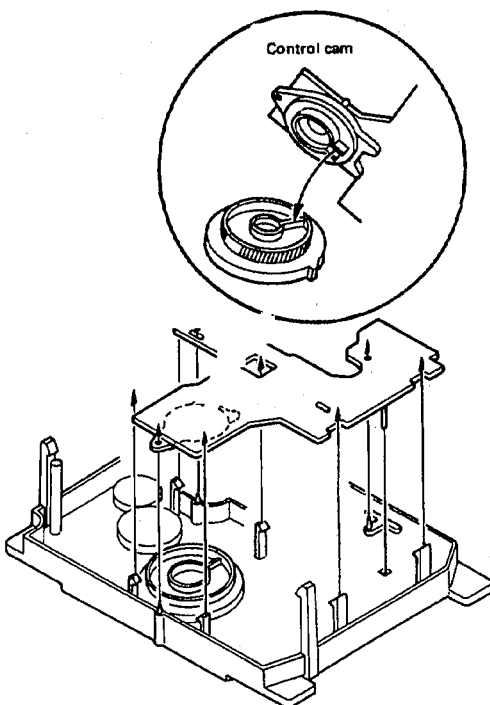


Fig 2 - 19

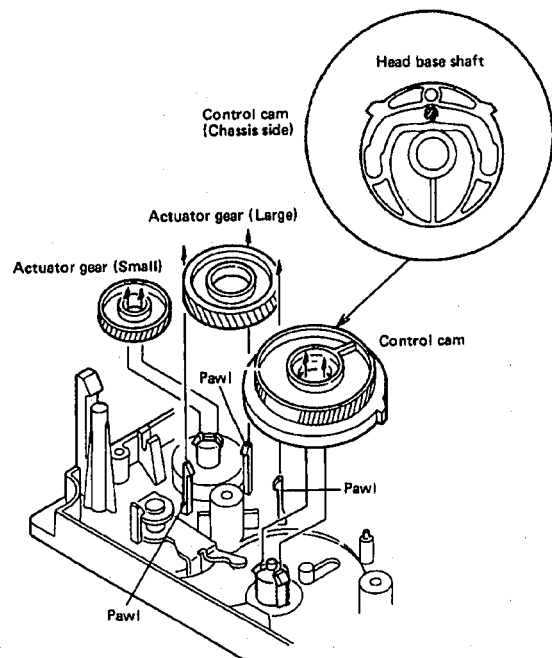


Fig 2 - 20

3 Main Adjustment

◆ Measuring instruments required for adjustment

- (1) Low – frequency oscillator (oscillation frequency 50Hz – 20kHz, 0dB output with 600 Ω impedance)
- (2) Attenuator (600 Ω impedance)
- (3) Electronic voltmeter
- (4) Standard tapes
 - VTT712 (tape speed, wow and flutter measurement)
 - VTT724 (reference level)
 - TMT735, VTT739 (playback frequency)
 - VTT704 (12.5 kHz) (azimuth)
 - TMT6447, TMT6448 (music scan)
- (5) Recording reference tapes
 - TS – 12 (UD1), TS – 10 (AC – 513) (SA),
 - TS – 11 (AC – 712) (MA) or equivalent
- (6) 600 Ω resistors (for attenuator matching)
- (7) Distortion meter (bandpass filter)
- (8) Torque gauge (cassette) for CTG – N, TW2111, TW2121 and TW2231 mechanism adjustments

- (9) Wow & flutter gauge
- (10) Frequency counter gauge
- (11) M300 gauge
- (12) Band pass filter

◆ Power supply voltage

Set the line voltage selector switch to 240V/ 230V/ 220V/ 127V/ 120V/ 110V according to your local voltage.

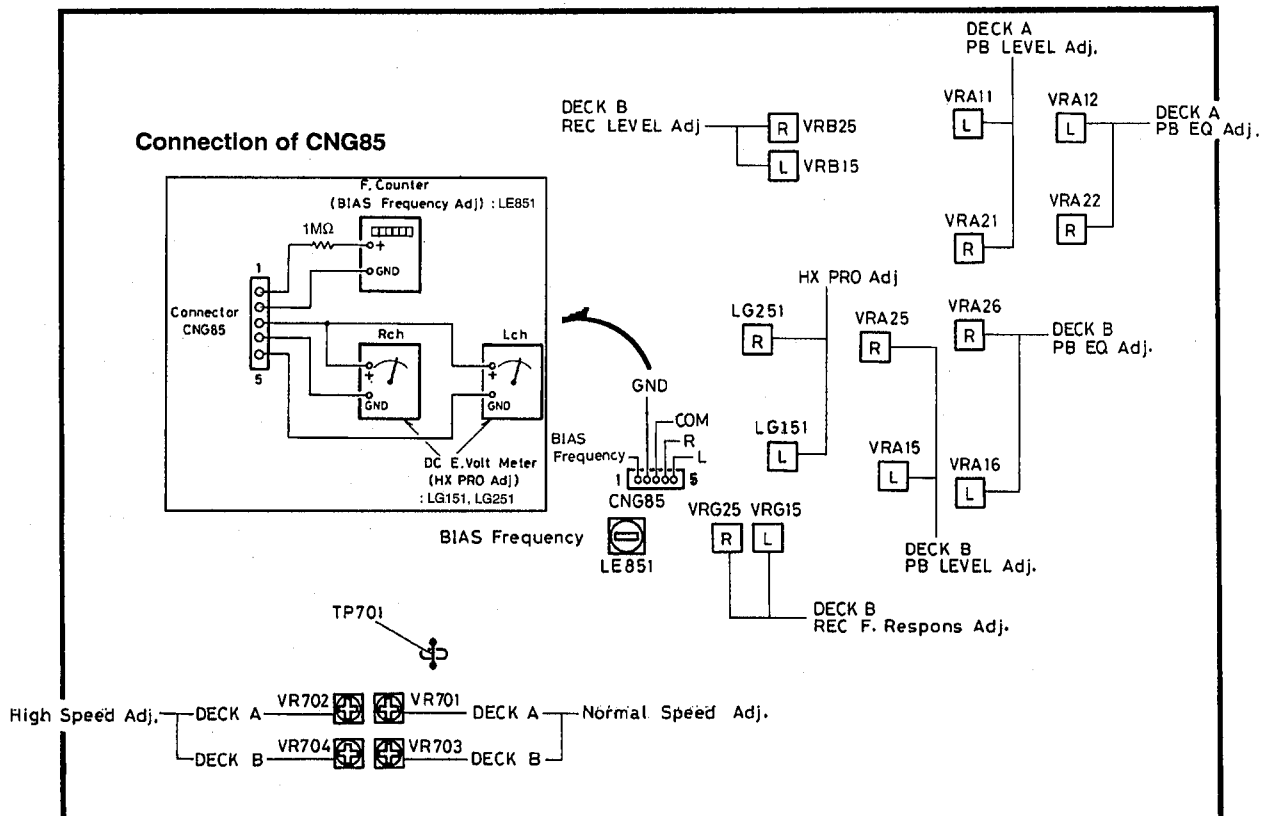
- AC240V, 50/60Hz : A/B version
- AC230V, 50/60Hz : E/EN/G version
- AC120V, 60Hz : C/J version
- AC230/127/110V, 50/60Hz: U/UT version

- (13) Standard position of the switch and volume knob

Switches and volume knobs Setting position

| | | |
|--------------|---|---------|
| INPUT LEVEL | : | MAXIMUM |
| DOLBY NR | : | OFF |
| REVERSE MODE | : | ↔ |

◆ Location of Adjustment



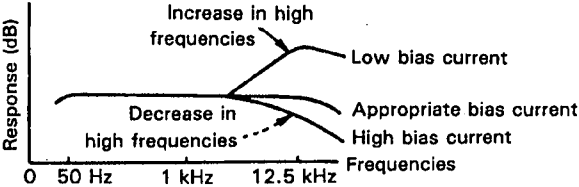


◆ Mechanism Adjustment

| Item | Conditions | Adjustment and Confirmation | Standad value | Adjust point |
|--|--|--|---|---|
| Adjusting Head azimuth | Test tape : VTT704 (12.5kHz) | <ol style="list-style-type: none"> 1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT704 (12.5kHz) test tape. 3. Adjust the head angle with the screw (FWD and REV) until the reading of the electronic voltmeter becomes maximum for both channels (phase difference must be "0".) 4. Repeat the adjustment in FWD and REV modes as well as for the dechs A and B. | Maximum | Screws (FWD, REV) |
| Adjusting motor speed | <ol style="list-style-type: none"> 1. For high speed adjustment, set the deck for play mode and shortcircuit between TP - 701 and GND. 2. Do not do anything while TP701 and GND are shortcircuited. | <ol style="list-style-type: none"> 1. Connect a frequency counter to the LINEOUT terminals. 2. Perform normal speed adjustment first, and then do high speed adjustment. 3. Play back the VTT712 test tape. 4. Adjust for deck A : Ajust VT701 for normal speed at 3000Hz, and VR702 for high speed at 6000Hz Adjust for deck B : Adjust VR703 for normal speed at 3000Hz, and VR704 for high speed at 6000Hz. 5. Difference in FWD and REV frequencies must be less than 45Hz. | Normal speed: Deck A , B : 3000 ±30Hz High speed: Deck A , B : 6000 ± 30Hz | Deck A : Normal; VR701 High ; VR702 Deck B : Normal; VR703 High; VR704 |
| Checking wow and flutter | Test tape: VTT712 (3kHz) | Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.18% (WRMS). | 0.18% (WRMS) | |
| Checking play back torque | | Employ a torque testing cassette tape (TW2111[FWD] / TW2121[REV] for the checking, or remove the cassette cover and use a torque gauge. | 27 - 60 gr - cm | |
| Checking fast for - ward/rewind torque | | Measure the torque in the fast forward mode in the same manner as in the above. Test cassette : TW2231 (FWD), TW2241 (REV) | 90 - 200gr - cm | |

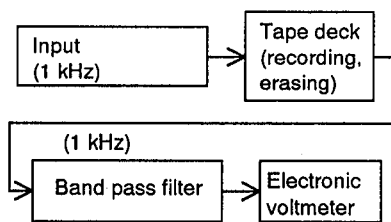
◆ Electrical Adjustment Procedure

| Item | Check and Adjustment | | | |
|---|---|------------------|------------------------------------|---|
| 1 Cheking DOLBY circuit (Rec.mode) (BIAS-CUT) | Signal input: LINE IN Cal.level: 400Hz, - 8dBs Output terminal TP : ICD85 [Ⓔ] & [Ⓛ] pin. | DOLBY B (Rec) | Input signal (Frequency, level) | Output raise value,deviation value |
| | | | 1kHz, cal. - 40dB | +5.7 dB ± 2 dB |
| | | | 5kHz, Cal. - 20dB | +3.5dB ± 1.5 dB |
| | | DOLBY C (Rec) | 1kHz, Cal. 0dB | 0 dB ± ^{0.5} _{1.0} dB |
| | | | 1kHz, Cal. - 40 | +16.2 dB ± ³ ₂ dB |
| | | | 5kHz, Cal. - 20 | +2.9 dB ± 2.5 dB |
| | | 1kHz, Cal. 0dB | 0 dB ± 1 dB | |

| Item | Conditions | Adjustment and Confirmation | Standard | Adjusting |
|--|---|---|--|--|
| *2 Play back level adjust- ment | Test tape VTT724: 1kHz | Play back VTT724, then confirm that the level at LINE OUT is - 7.5 dBs ± 0.5 dB. Adjust VRA15 VRA25 and VRA11 VRA21 so that LINE OUT level becomes -7.5 dBs. | LINE OUT -8dB ^{+1.5} _{-0.5} dB PHONES Out -24dBs ^{+2.5} _{-1.5} dB | Deck <input type="checkbox"/> L : VRA15 R : VRA25 Deck <input type="checkbox"/> L : VRA11 R : VRA21 |
| *3 Playback frequency response adjustment | Test tape TMT735:1kHz/12.5kHz VTT739 :1kHz/63Hz | Play back TMT735 test tape, and adjust VRA16, VRA26 (deck <input type="checkbox"/>) and VRA12, VRA22 (deck <input type="checkbox"/>) so that deviation of 12.5 kHz to that of 1 kHz is 0.5 ± 0.5 dB. Then, play back VTT739 test tape to confirm that deviation of 63 Hz to 1kHz is +2 ± 3 dB. | with 12.5kHz as reference, 0.5 ± 0.5 dB at 1kHz 63Hz(check): +2 ± 3dB | Deck <input type="checkbox"/> L : VRA16 R : VRA26 Deck <input type="checkbox"/> L : VRA12 R : VRA22 |
| *4 Bias frequency adjustment | Frequency counter TP :CNG85 | Connect a frequency counter to the CNG85 and adjust LE851 so that the counter reads 95 kHz. | 95 kHz ± 1 kHz | Deck <input type="checkbox"/> LE851 |
| *5 Slave oscillation (HX PRO) adjustment | DC.Voltmeter TP:CNG85 | This step must be performed after the bias frequency adjustment. Load a metal tape and set the deck to the recording mode. Adjust LG151 and LG251 to minimize respective voltages of CNG85 (PIN3-5) at Lch and (PIN3-4) at Rch. | | Deck <input type="checkbox"/> L : LG151 R : LG251 |

| Item | Conditions | Adjustment and Confirmation | Standard | Adjusting |
|---|---|--|--|--|
| *6 REC/PB frequency response adjustment | LINE INRUT level : Ref. - 20dB(- 39dBs ± 2dB) | This step must be performed after the slave oscillation adjustment. Record the 1 kHz and 12.5 kHz signals at the level of - 20 dB (20 dB lower than the reference level). Playing back the recorded signals, adjust VRG15 and VRG25 so that the level of the 12.5 kHz signal is 0.5 ± 0.5 dB to the level of the 1 kHz signal.  | 12.5 kHz level: 0 ± 0.5 dB higher than the 1kHz level. | Deck  L :VRG15 R :VRG25 |
| *7 Recording level adjustment | NR switch : Off TAPE switch : Normal | 1) Apply 1 kHz signal to the LINE IN terminals, record 1 kHz signal at - 20 dBs input for both (L and R) channels on a normal tape. 2)Play back the recorded part, and adjust the recording level con- trols so that LINE OUT terminal level becomes - 8 dBs. Then adjust VRB15 and VRB25 so that LINE OUT terminal level becomes - 8 dBs. | Normal: $- 8 \begin{matrix} +1.5 \\ -0.5 \end{matrix}$ dBs CrO2/Metal: $-8 \begin{matrix} +2 \\ -1 \end{matrix}$ dB | Deck  L : VRB15 R : VRB25 |
| 8 Maximum out put check | | Supply 1 kHz signal to the LINE IN terminal in the Rec. monitoring mode, and read non-clipped signal level at the LINE IN terminal | LINE OUT: more than 8 dBs PHONES OUT: more than - 16dBs | |
| 9 DDRP check | Light the DDRP indicater Mode: Stop | With the DDRP switch set to ON , supply 1 kHz, - 10.8 dBs input signal in the rec pause mode and check the signal level at the LINE OUT terminal. With the DDRP switch set to OFF , perform the same check as in the above step. | Normal: $- 11$ dBs ± 2 dB Metal: $- 8$ dBs ± 2 dB | |
| | Turn off DDRP indicater | | Normal: $+1.2$ dBs ± 2 dB Metal: $+1.2$ dBs ± 2 dB | |

| Item | Conditions | Adjustment and Confirmation | Standard | Adjusting |
|---|------------|---|---|-----------|
| 10 Checking record/playback distortion | | 1)Record a 1 kHz, -20 dBs signal to LINE IN terminals. 2)Play back the recorded part, Check the output with a distortion meter to see if the value conforms to the standard value. | Normal: Less than 2% CrO ₂ /Metal: Less than 3% | |
| 11 Checking signal to noise ration recording playback | | 1)Record a 1 kHz, -20 dBs signal, Stop the input bu disconnecting from the terminal to perform non-signal recording. 2)Play back the recorded part.Measure the - 8 dBs recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. | Normal: More than 40 dB CrO ₂ /Metal: More than 41 dB | |
| 12 Checking erasing coefficient | | 1)Apply a 1 kHz, +20 dBs signal to the LINE IN terminals. 2)Perform recording with the signal enhaned by 20dB. 3)Erase a part of the recording. 4)Measure the output difference between the erased part and non- erased part to compare with an electronic voltmeter. For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter. | More than 55 dB | |



4 Wiring Connections

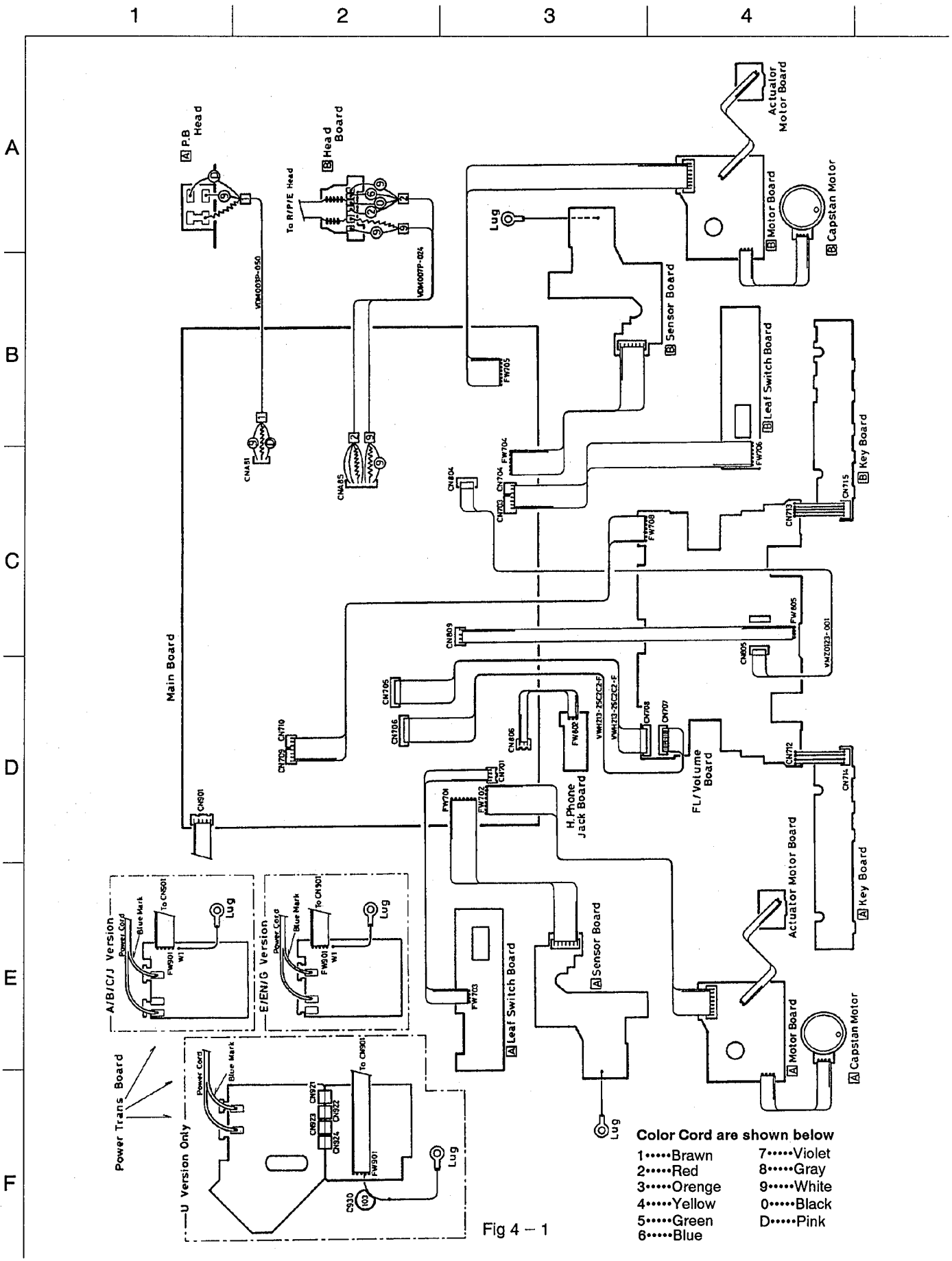


Fig 4 - 1

- Color Cord are shown below
- | | |
|--------------|--------------|
| 1.....Brown | 7.....Violet |
| 2.....Red | 8.....Gray |
| 3.....Orange | 9.....White |
| 4.....Yellow | 0.....Black |
| 5.....Green | D.....Pink |
| 6.....Blue | |

5 Block Diagram

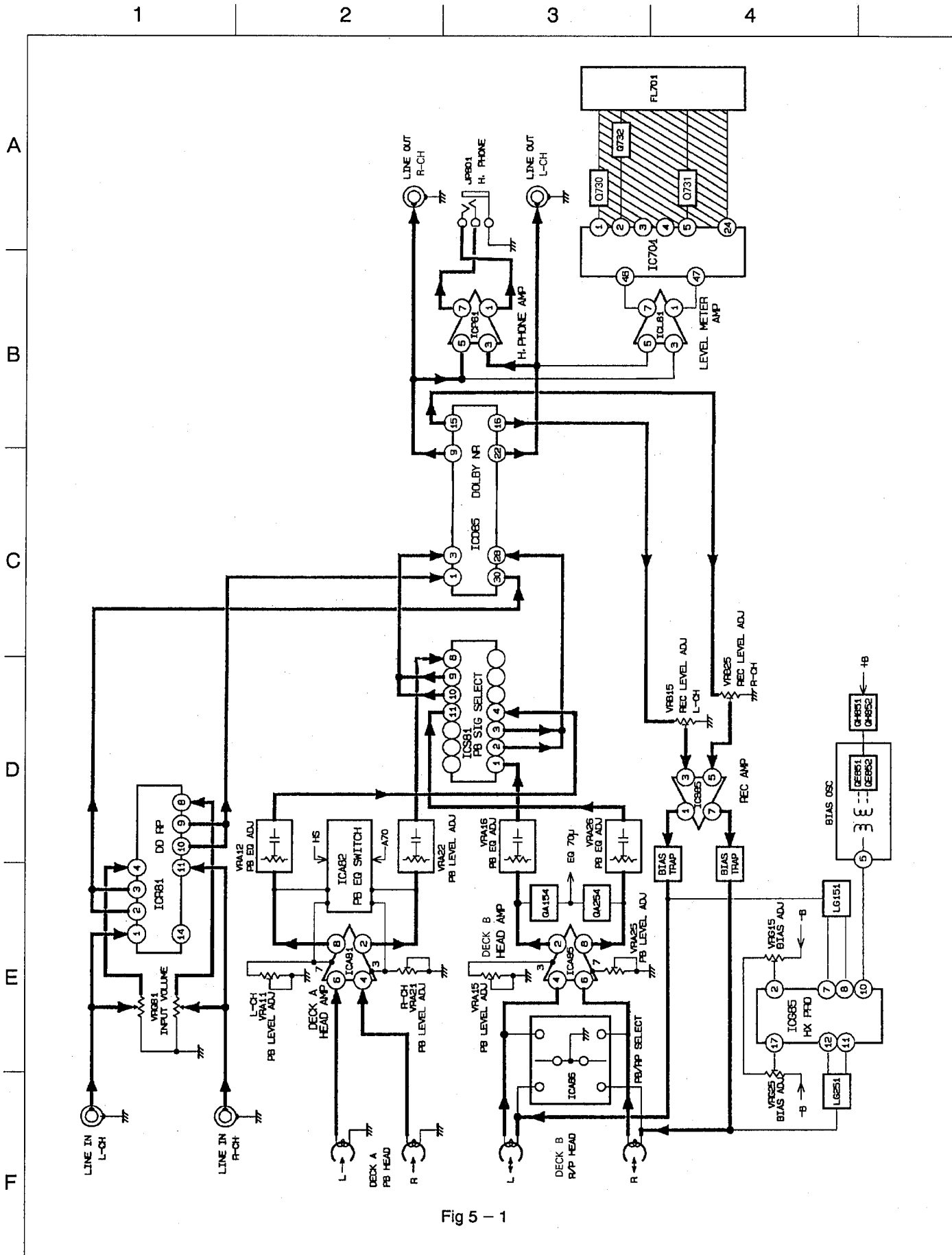


Fig 5 - 1

6 Standard Schematic Diagram

1 2 3 4 5

Head amp./Bias Circuit

A

B

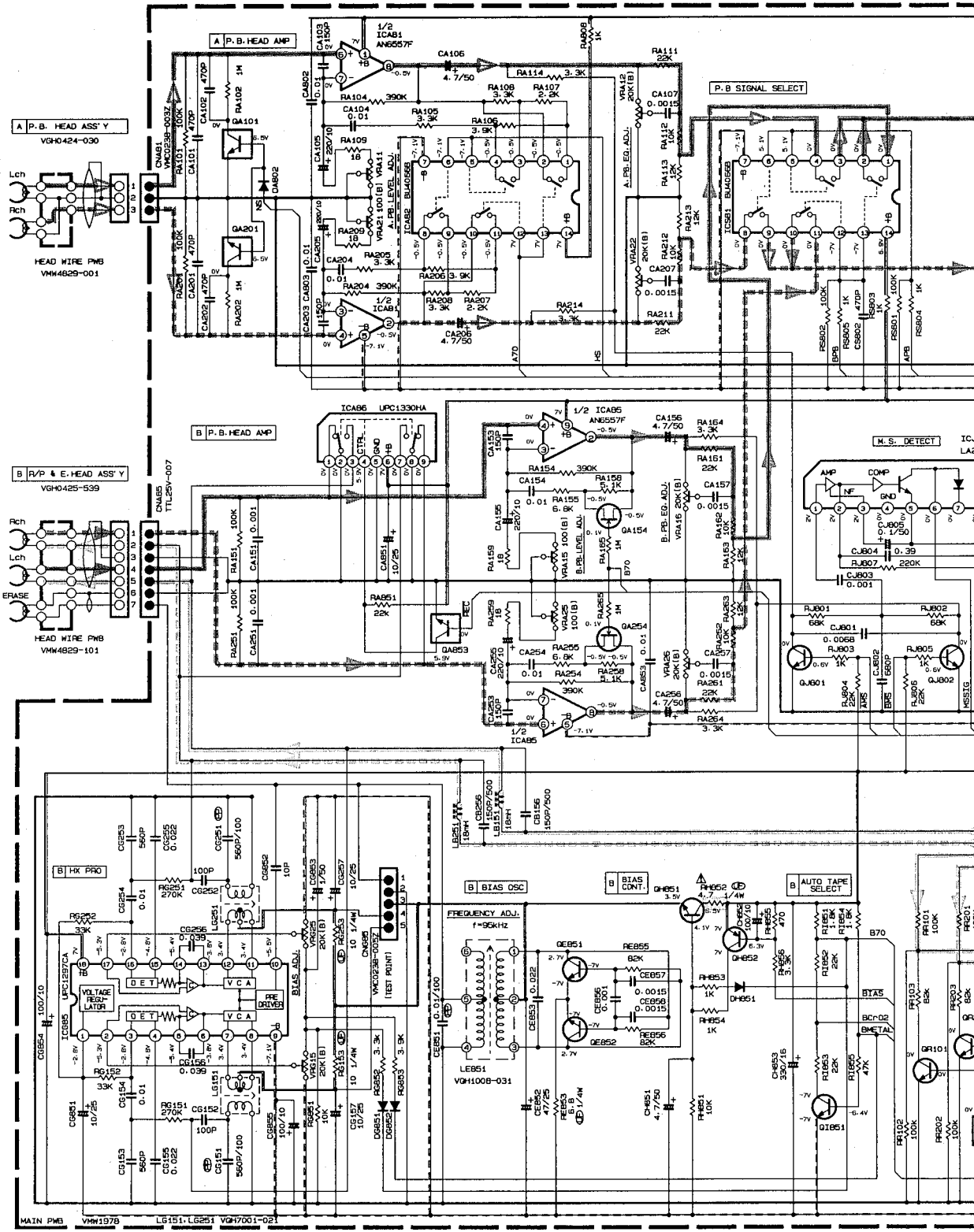
C

D

E

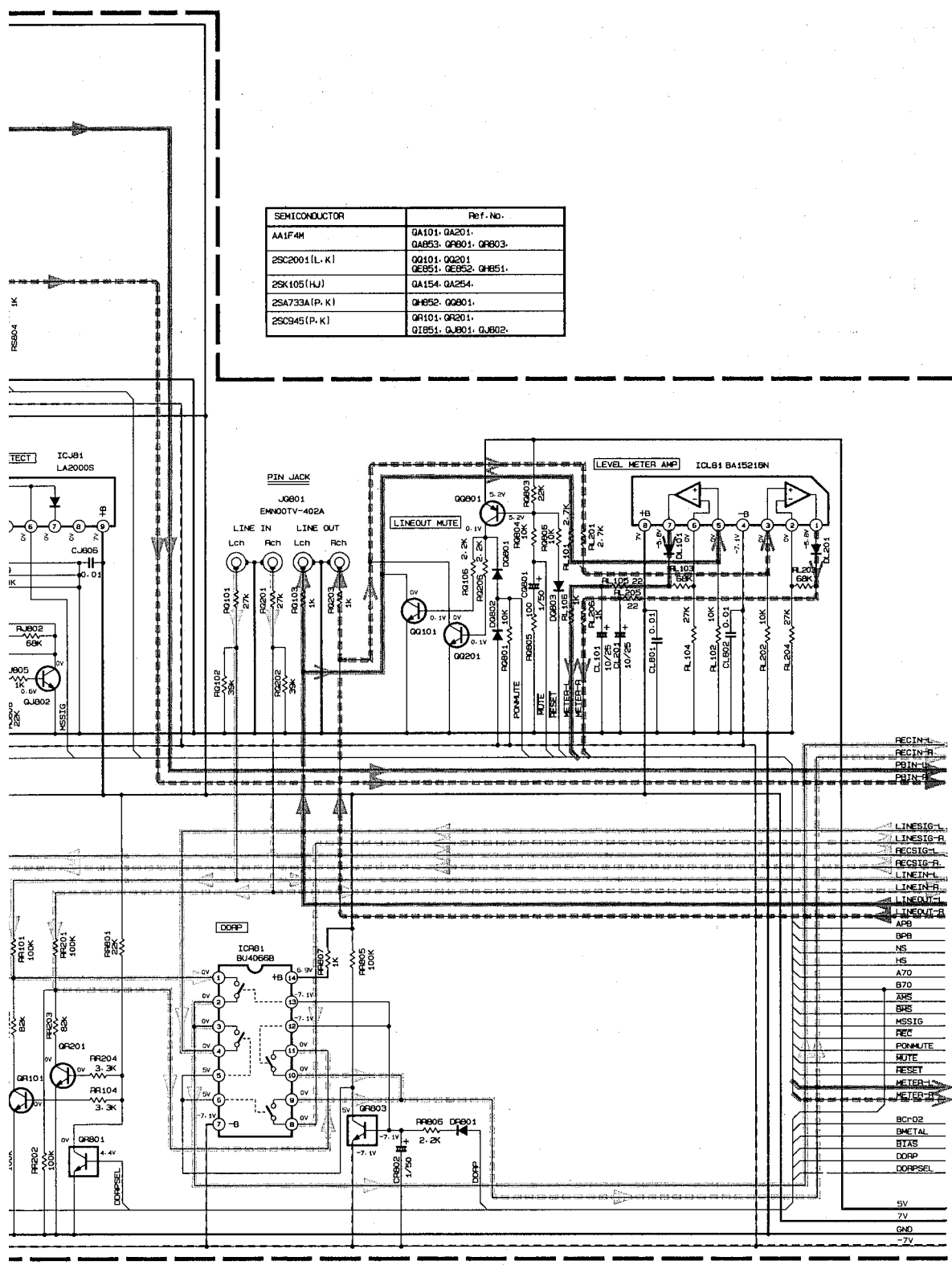
F

G



- Playback signal
- Playback signal
- Indicator signal

6 7 8 9 10



To E-1
on page 24

signal line (DECK A) L Recording signal line +B LINE

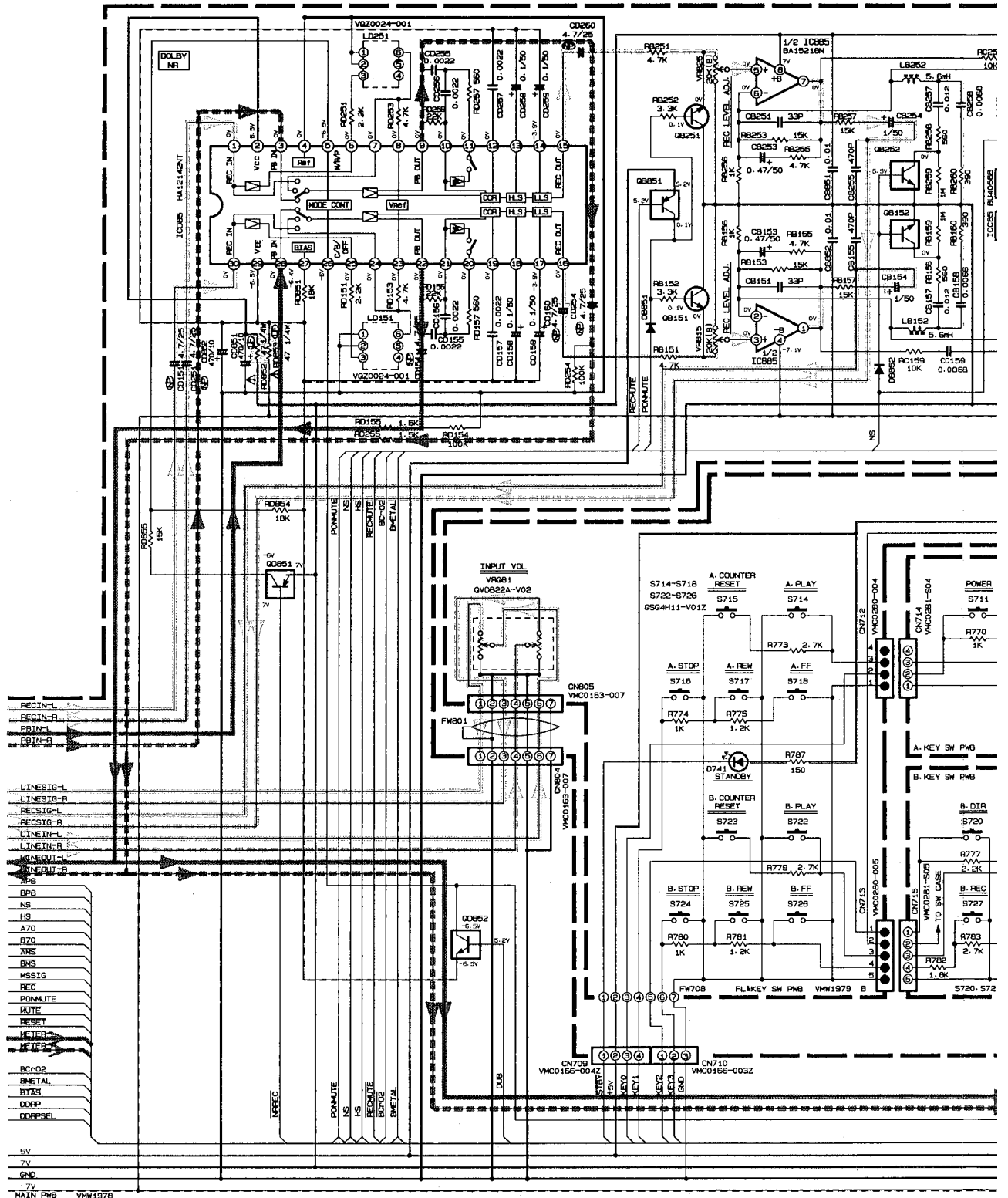
signal line (DECK B) R Recording signal line -B LINE

signal line **Parts are safety assurance parts. When replacing those parts make sure to use the specified one.**

Fig 6 - 1

■ DOLBY NR /Key-FL Circuit

A
B
C
D
E
F
G



To E-10
on page
23

| SEMICONDUCTOR | Ref. No. |
|----------------|-----------------------------------|
| 25C2001 (L, K) | 0B151, 0B251 |
| AN1F4M | 0B51, 0B51 |
| AA1F4M | 0B152, 0B252, 0C152, 0C252, 0D652 |
| 25C945 (P, K) | 0C151, 0C251 |

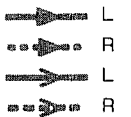


Fig 6 - 2

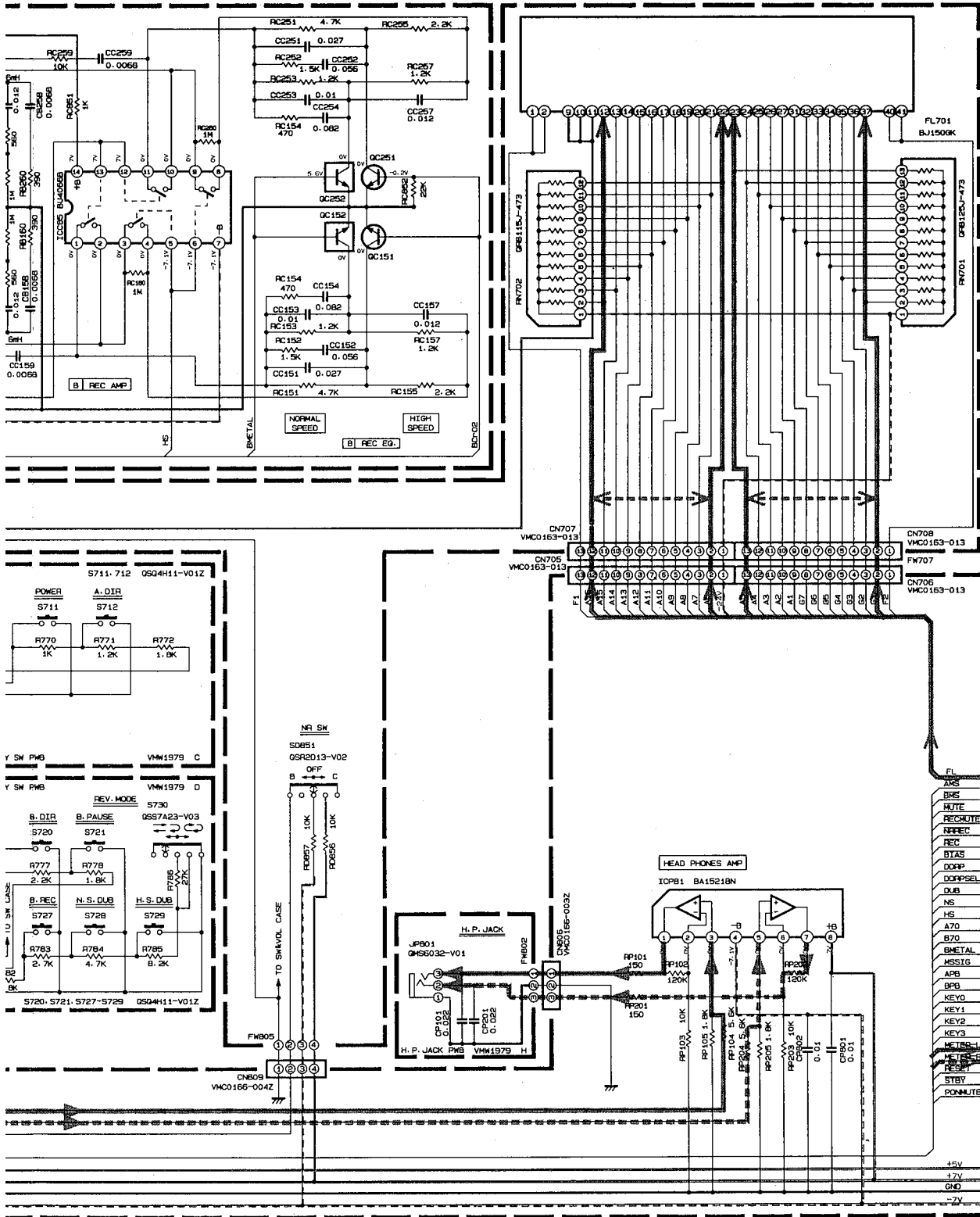
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7

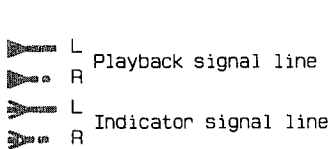
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9

10

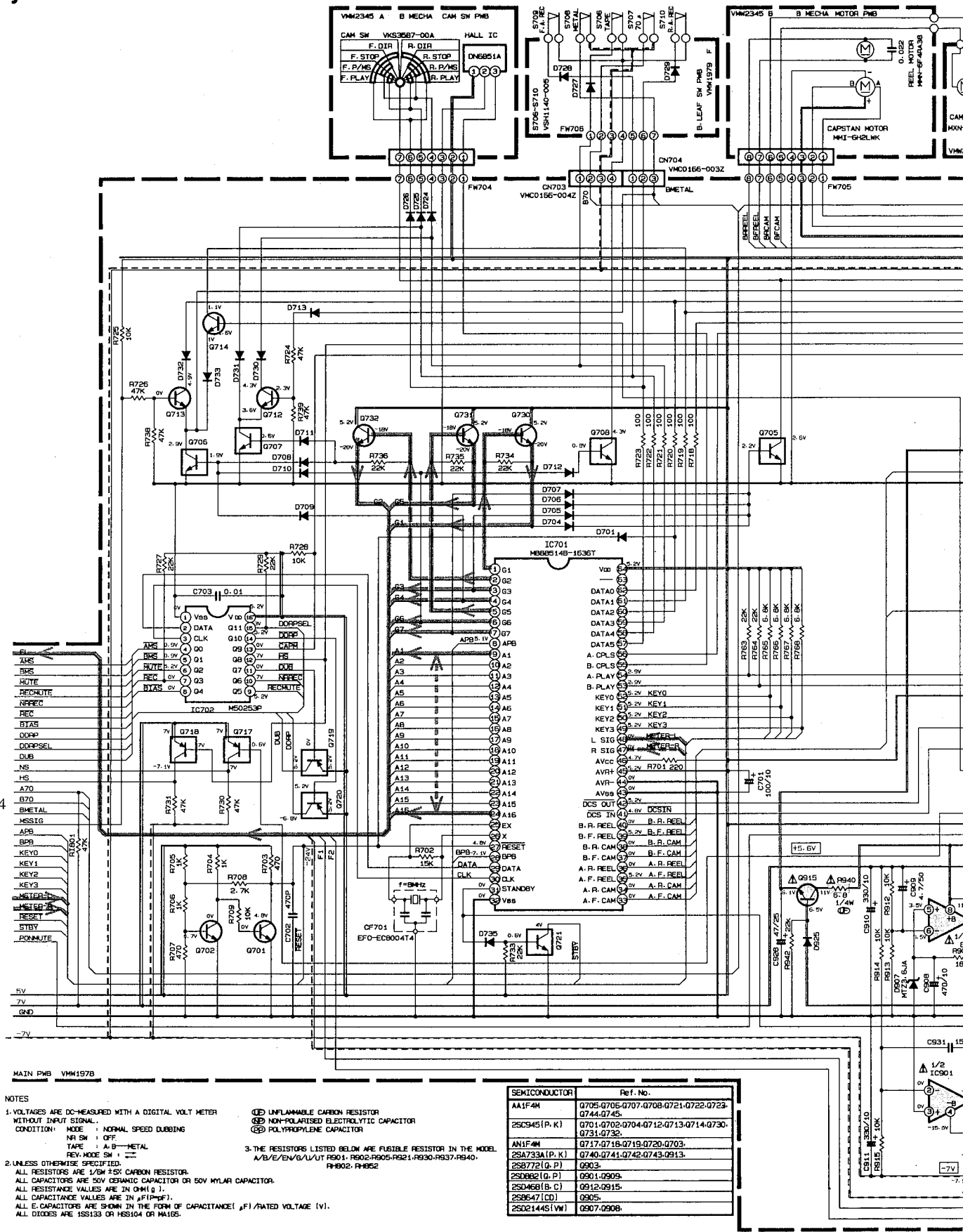


To E-1
on page 25



Parts are safety assurance parts.
 When replacing those parts make
 sure to use the specified one.

System Control Circuit



To E-10 on page 24

MAIN PWB VM1978

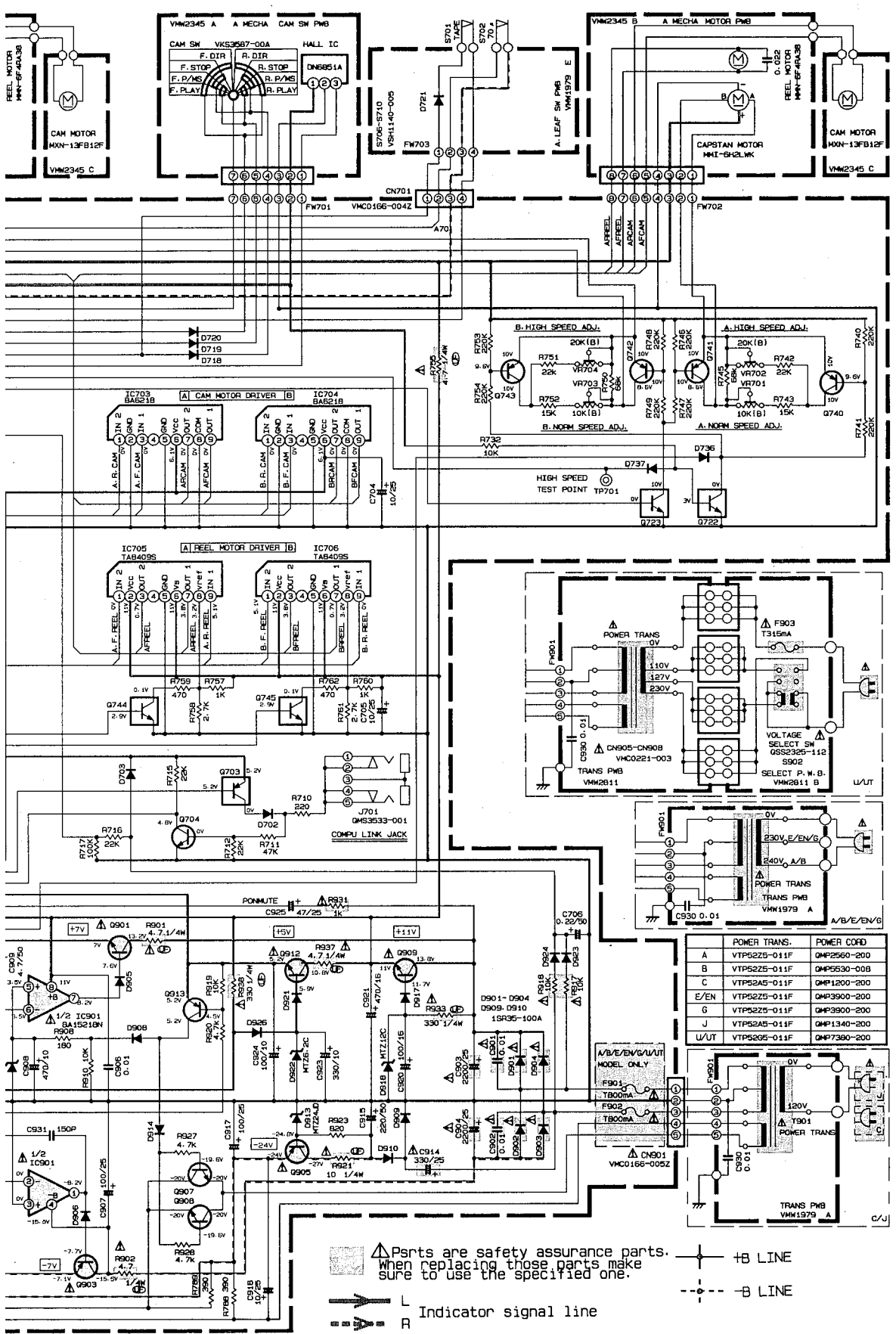
NOTES

- 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
- CONDITION: MODE = NORMAL SPEED DUBBING
- NR SM = OFF
- TAPR = A/B-METAL
- REV-MODE SW = 1
- 2. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
- ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
- ALL RESISTANCE VALUES ARE IN OHM (Ω)
- ALL CAPACITANCE VALUES ARE IN μF (μF).
- ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE (V).
- ALL DIODES ARE 1SS133 OR HES104 OR MA165.

- ⊞ UNFLAMMABLE CARBON RESISTOR
 - ⊞ NON-POLARISED ELECTROLYTIC CAPACITOR
 - ⊞ POLYPROPYLENE CAPACITOR
3. THE RESISTORS LISTED BELOW ARE FUSIBLE RESISTOR IN THE MODEL A/B/E/EN/G/L/V/UT R901, R902-R905-R921-R930-R937-R940, R9802-R9852

| SEMICONDUCTOR | Ref. No. |
|---------------|--|
| AA1F4M | Q705-Q706-Q707-Q708-Q721-Q722-Q723-Q744-Q745 |
| 2SC945(P, K) | Q701-Q702-Q704-Q712-Q713-Q714-Q730-Q731-Q736 |
| AN1F4M | Q717-Q718-Q719-Q720-Q703 |
| 2SA733A(P, K) | Q740-Q741-Q742-Q743-Q913 |
| 2S8772(G, P) | Q903 |
| 2SD962(G, P) | Q901-Q909 |
| 2SD468(B, C) | Q912-Q915 |
| 2SB647(CD) | Q905 |
| 2SD2144S1(W) | Q907-Q908 |

6 7 8 9 10



A
B
C
D
E
F
G

Fig 6 - 3

7 Location of P.C. Board parts and Parts List

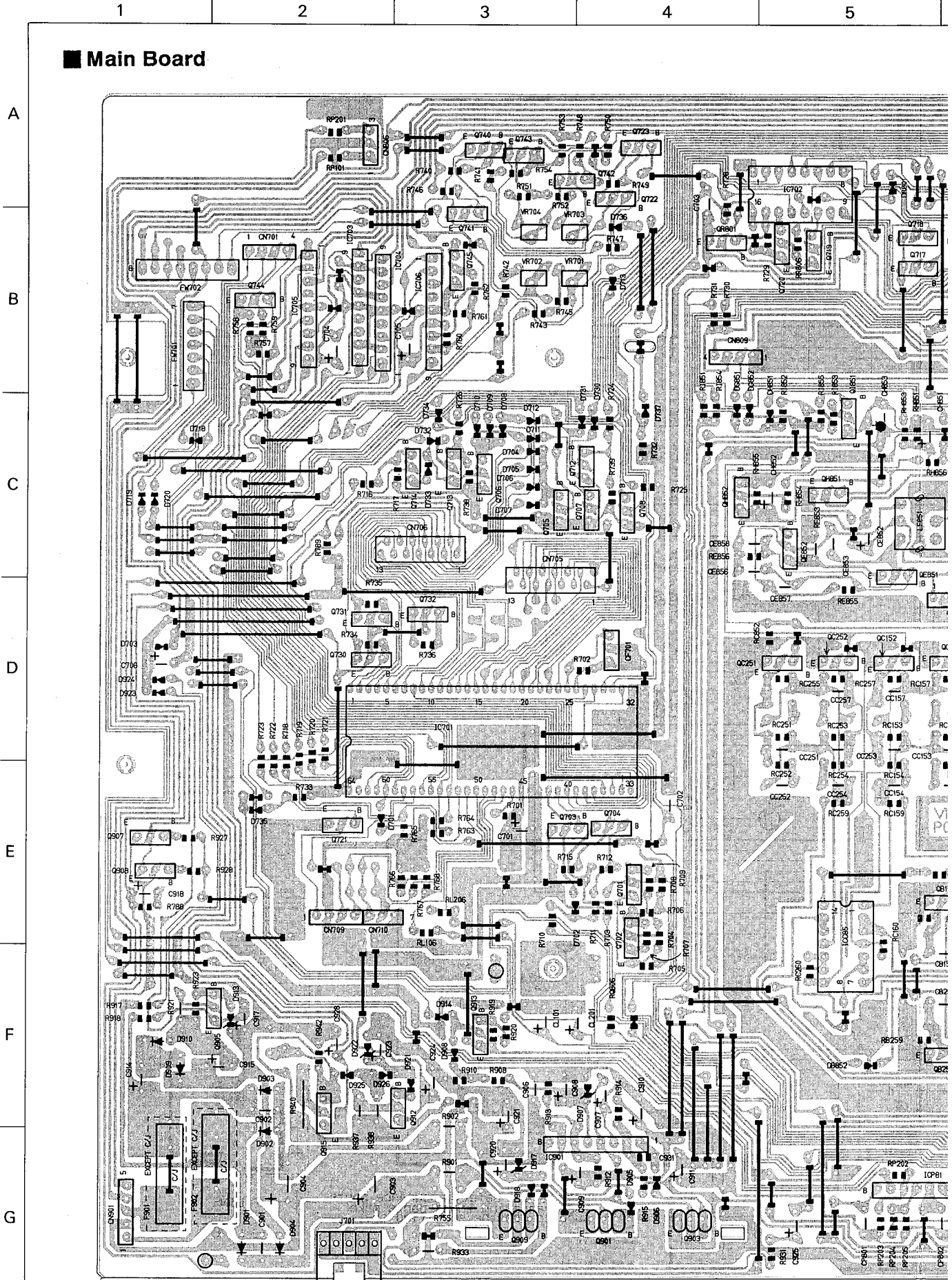
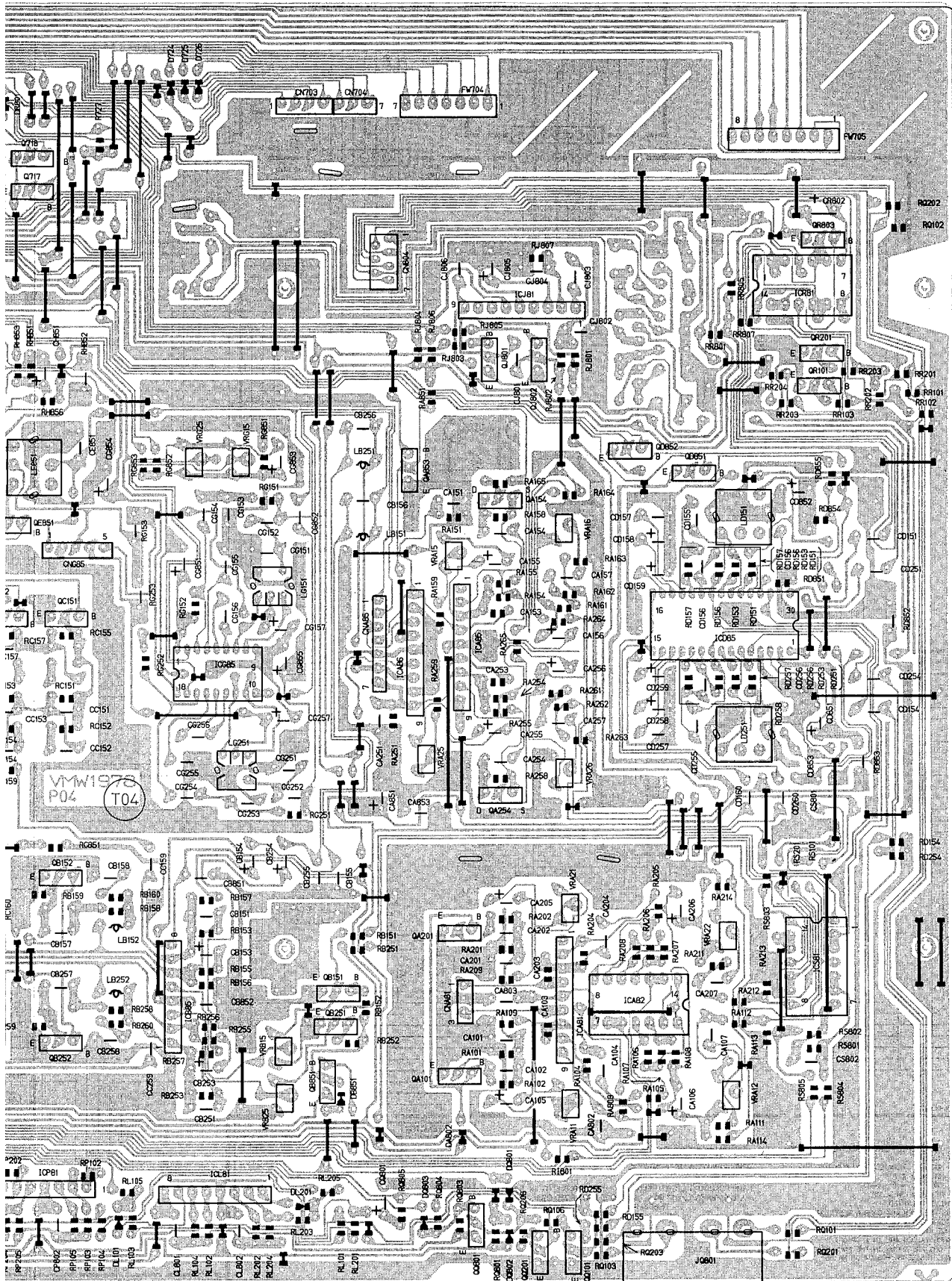


Fig 7 - 1



● Main board parts List

▲ Parts are safety assurance parts.

When replacing these parts, make sure to use the specified one.

● Main board parts List

| BLOCK NO. 01111111 | | BLOCK NO. 01111111 | | |
|--------------------|---------------|--------------------|------------------|--------|
| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
| C 701 | QETC1AM-1072N | E. CAPACITOR | 100MF 20% 10V | |
| C 702 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| C 703 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| C 704 | QETC1EM-1062N | E. CAPACITOR | 10MF 20% 25V | |
| C 705 | QETC1EM-1062N | E. CAPACITOR | 10MF 20% 25V | |
| C 706 | QETC1HM-2242N | E. CAPACITOR | -22MF 20% 50V | |
| C 901 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| C 902 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| C 903 | QETB1EM-228N | E. CAPACITOR | 2200MF 20% 25V | |
| C 904 | QETB1EM-228N | E. CAPACITOR | 2200MF 20% 25V | |
| C 906 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| C 907 | QETC1EM-1072N | E. CAPACITOR | 100MF 20% 25V | |
| C 908 | QETC1AM-4772N | E. CAPACITOR | 470MF 20% 10V | |
| C 909 | QETC1HM-4752N | E. CAPACITOR | 4.7MF 20% 50V | |
| C 910 | QETC1AM-3372N | E. CAPACITOR | 330MF 20% 10V | |
| C 911 | QETC1AM-3372N | E. CAPACITOR | 330MF 20% 10V | |
| C 914 | QETC1EM-3372N | E. CAPACITOR | 330MF 20% 25V | |
| C 915 | QETC1HM-2272N | E. CAPACITOR | 220MF 20% 50V | |
| C 917 | QETC1EM-1072N | E. CAPACITOR | 100MF 20% 25V | |
| C 918 | QETC1EM-1062N | E. CAPACITOR | 10MF 20% 25V | |
| C 920 | QETC1CM-1072N | E. CAPACITOR | 100MF 20% 16V | |
| C 921 | QETC1CM-4772N | E. CAPACITOR | 470MF 20% 16V | |
| C 923 | QETC1AM-3372N | E. CAPACITOR | 330MF 20% 10V | |
| C 924 | QETC1AM-1072N | E. CAPACITOR | 100MF 20% 10V | |
| C 925 | QETC1EM-4762N | E. CAPACITOR | 47MF 20% 25V | |
| C 928 | QETC1EM-4762N | E. CAPACITOR | 47MF 20% 25V | |
| C 931 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| CA101 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| CA102 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| CA103 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| CA104 | QFLC1HJ-1032M | M. CAPACITOR | -0.10MF 5% 50V | |
| CA105 | QETC1AM-2272N | E. CAPACITOR | 220MF 20% 10V | |
| CA106 | QETC1HM-4752N | E. CAPACITOR | 4.7MF 20% 50V | |
| CA107 | QFLC1HJ-1522M | M. CAPACITOR | 1500PF 5% 50V | |
| CA151 | QFLC1HJ-1022M | M. CAPACITOR | 1000PF 5% 50V | |
| CA153 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| CA154 | QFLC1HJ-1032M | M. CAPACITOR | -0.10MF 5% 50V | |
| CA155 | QETC1AM-2272N | E. CAPACITOR | 220MF 20% 10V | |
| CA156 | QETC1HM-4752N | E. CAPACITOR | 4.7MF 20% 50V | |
| CA157 | QFLC1HJ-1522M | M. CAPACITOR | 1500PF 5% 50V | |
| CA201 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| CA202 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| CA203 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| CA204 | QFLC1HJ-1032M | M. CAPACITOR | -0.10MF 5% 50V | |
| CA205 | QETC1AM-2272N | E. CAPACITOR | 220MF 20% 10V | |
| CA206 | QETC1HM-4752N | E. CAPACITOR | 4.7MF 20% 50V | |
| CA207 | QFLC1HJ-1522M | M. CAPACITOR | 1500PF 5% 50V | |
| CA251 | QFLC1HJ-1022M | M. CAPACITOR | 1000PF 5% 50V | |
| CA253 | QCB1HK-151Y | C. CAPACITOR | 150PF 10% 50V | |
| CA254 | QFLC1HJ-1032M | M. CAPACITOR | -0.10MF 5% 50V | |
| CA255 | QETC1AM-2272N | E. CAPACITOR | 220MF 20% 10V | |
| CA256 | QETC1HM-4752N | E. CAPACITOR | 4.7MF 20% 50V | |
| CA257 | QFLC1HJ-1522M | M. CAPACITOR | 1500PF 5% 50V | |
| CA802 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| CA803 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| A REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
| CA851 | QETC1EM-1062N | E. CAPACITOR | 10MF 20% 25V | |
| CA853 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| CB151 | QCS11HJ-330 | C. CAPACITOR | 33PF 5% 50V | |
| CB153 | QETC1HM-4742N | E. CAPACITOR | -4.7MF 20% 50V | |
| CB154 | QETC1HM-4742N | E. CAPACITOR | 1.0MF 20% 50V | |
| CB155 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| CB156 | QCS32HJ-1512V | C. CAPACITOR | 150PF 5% 500V | |
| CB157 | QFLC1HJ-1232M | M. CAPACITOR | -0.12MF 5% 50V | |
| CB158 | QFLC1HJ-6822M | M. CAPACITOR | 6800PF 5% 50V | |
| CB251 | QCS11HJ-330 | C. CAPACITOR | 33PF 5% 50V | |
| CB253 | QETC1HM-4742N | E. CAPACITOR | -4.7MF 20% 50V | |
| CB254 | QETC1HM-1032N | E. CAPACITOR | 1.0MF 20% 50V | |
| CB255 | QCS11HJ-471 | C. CAPACITOR | 470PF 5% 50V | |
| CB256 | QCS32HJ-1512V | C. CAPACITOR | 150PF 5% 500V | |
| CB257 | QFLC1HJ-1232M | M. CAPACITOR | -0.12MF 5% 50V | |
| CB258 | QFLC1HJ-6822M | M. CAPACITOR | 6800PF 5% 50V | |
| CB851 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| CB852 | QCF11HP-103 | C. CAPACITOR | -0.10MF +100:-0% | |
| CC151 | QCC31EM-2732V | C. CAPACITOR | -0.27MF 20% 25V | |
| CC152 | QCC31EM-5632V | C. CAPACITOR | -0.56MF 20% 25V | |
| CC153 | QCC11EM-1032V | C. CAPACITOR | -0.10MF 20% 25V | |
| CC154 | QCC31EM-8232V | C. CAPACITOR | -0.82MF 20% 25V | |
| CC157 | QCC11EM-1232V | C. CAPACITOR | -0.12MF 20% 25V | |
| CC159 | QFLC1HJ-6822M | M. CAPACITOR | 6800PF 5% 50V | |
| CC251 | QCC31EM-2732V | C. CAPACITOR | -0.27MF 20% 25V | |
| CC252 | QCC31EM-5632V | C. CAPACITOR | -0.56MF 20% 25V | |
| CC253 | QCC11EM-1032V | C. CAPACITOR | -0.10MF 20% 25V | |
| CC254 | QCC31EM-8232V | C. CAPACITOR | -0.82MF 20% 25V | |
| CC257 | QCC11EM-1232V | C. CAPACITOR | -0.12MF 20% 25V | |
| CD151 | QFLC1HJ-6822M | M. CAPACITOR | 6800PF 5% 50V | |
| CD154 | QEN41EM-475 | NP.E. CAPACITOR | 4.7MF 20% 25V | |
| CD155 | QFLC1HJ-2222M | M. CAPACITOR | 2200PF 5% 50V | |
| CD156 | QFLC1HJ-2222M | M. CAPACITOR | 2200PF 5% 50V | |
| CD157 | QFLC1HJ-2222M | M. CAPACITOR | 2200PF 5% 50V | |
| CD158 | QETC1HM-1042N | E. CAPACITOR | -1.0MF 20% 50V | |
| CD159 | QETC1HM-1042N | E. CAPACITOR | -1.0MF 20% 50V | |
| CD160 | QEN41EM-475 | NP.E. CAPACITOR | 4.7MF 20% 25V | |
| CD251 | QEN41EM-475 | NP.E. CAPACITOR | 4.7MF 20% 25V | |
| CD254 | QEN41EM-475 | NP.E. CAPACITOR | 4.7MF 20% 25V | |
| CD255 | QFLC1HJ-2222M | M. CAPACITOR | 2200PF 5% 50V | |
| CD256 | QFLC1HJ-2222M | M. CAPACITOR | 2200PF 5% 50V | |
| CD257 | QFLC1HJ-2222M | M. CAPACITOR | 2200PF 5% 50V | |
| CD258 | QETC1HM-1042N | E. CAPACITOR | -1.0MF 20% 50V | |
| CD259 | QETC1HM-1042N | E. CAPACITOR | -1.0MF 20% 50V | |
| CD260 | QEN41EM-475 | NP.E. CAPACITOR | 4.7MF 20% 25V | |
| CD851 | QETC1AM-4772N | E. CAPACITOR | 470MF 20% 10V | |
| CD852 | QETC1AM-4772N | E. CAPACITOR | 470MF 20% 10V | |
| CE851 | QFP32AJ-1032M | PP. CAPACITOR | -0.10MF 5% 100V | |
| CE852 | QETC1EM-4762N | E. CAPACITOR | 47MF 20% 25V | |
| CE853 | QFLC1HJ-2232M | M. CAPACITOR | -0.22MF 5% 50V | |
| CE856 | QFLC1HJ-1032M | M. CAPACITOR | 1000PF 5% 50V | |
| CE857 | QFLC1HJ-1522M | M. CAPACITOR | 1500PF 5% 50V | |
| CE858 | QFLC1HJ-1522M | M. CAPACITOR | 1500PF 5% 50V | |
| CF701 | EFO-GC800A14 | CERAMIC RESONATOR | (F=8MHZ) | |

BLOCK NO. 01111111

| A | REF. | PARTS NO. | PARTS NAME | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|-------|-------------|-------------|-----------|------------|---------|--------|
| | D 705 | 1SS133 | SI DIODE | | | | |
| | D 706 | 1SS133 | SI DIODE | | | | |
| | D 707 | 1SS133 | SI DIODE | | | | |
| | D 708 | 1SS133 | SI DIODE | | | | |
| | D 709 | 1SS133 | SI DIODE | | | | |
| | D 710 | 1SS133 | SI DIODE | | | | |
| | D 711 | 1SS133 | SI DIODE | | | | |
| | D 712 | 1SS133 | SI DIODE | | | | |
| | D 713 | 1SS133 | SI DIODE | | | | |
| | D 718 | 1SS133 | SI DIODE | | | | |
| | D 719 | 1SS133 | SI DIODE | | | | |
| | D 720 | 1SS133 | SI DIODE | | | | |
| | D 724 | 1SS133 | SI DIODE | | | | |
| | D 725 | 1SS133 | SI DIODE | | | | |
| | D 726 | 1SS133 | SI DIODE | | | | |
| | D 729 | 1SS133 | SI DIODE | | | | |
| | D 730 | 1SS133 | SI DIODE | | | | |
| | D 731 | 1SS133 | SI DIODE | | | | |
| | D 732 | 1SS133 | SI DIODE | | | | |
| | D 733 | 1SS133 | SI DIODE | | | | |
| | D 735 | 1SS133 | SI DIODE | | | | |
| | D 736 | 1SS133 | SI DIODE | | | | |
| | D 737 | 1SS133 | SI DIODE | | | | |
| A | D 901 | 1SR35-100A | SI DIODE | | | | |
| A | D 902 | 1SR35-100A | SI DIODE | | | | |
| A | D 903 | 1SR35-100A | SI DIODE | | | | |
| A | D 904 | 1SR35-100A | SI DIODE | | | | |
| | D 905 | 1SS133 | SI DIODE | | | | |
| | D 906 | 1SS133 | SI DIODE | | | | |
| | D 907 | MT73-6JA | ZENER DIODE | | | | |
| | D 908 | 1SS133 | SI DIODE | | | | |
| A | D 909 | 1SR35-100A | SI DIODE | | | | |
| A | D 910 | 1SR35-100A | SI DIODE | | | | |
| | D 913 | MT24JD | ZENER DIODE | | | | |
| | D 914 | 1SS133 | SI DIODE | | | | |
| | D 917 | 1SS133 | SI DIODE | | | | |
| | D 918 | MT12C | ZENER DIODE | | | | |
| | D 921 | 1SS133 | SI DIODE | | | | |
| | D 922 | MT26-2CT-77 | ZENER DIODE | | | | |
| | D 923 | 1SS133 | SI DIODE | | | | |
| | D 924 | 1SS133 | SI DIODE | | | | |
| | D 925 | 1SS133 | SI DIODE | | | | |
| | D 926 | 1SS133 | SI DIODE | | | | |
| | DA802 | 1SS133 | SI DIODE | | | | |
| | DB851 | 1SS133 | SI DIODE | | | | |
| | DB852 | 1SS133 | SI DIODE | | | | |
| | DG851 | 1SS133 | SI DIODE | | | | |
| | DG852 | 1SS133 | SI DIODE | | | | |
| | DH851 | 1SS133 | SI DIODE | | | | |
| | DL101 | 1SS133 | SI DIODE | | | | |
| | DL201 | 1SS133 | SI DIODE | | | | |
| | DQ801 | 1SS133 | SI DIODE | | | | |
| | DQ802 | 1SS133 | SI DIODE | | | | |
| | DG803 | 1SS133 | SI DIODE | | | | |
| | DR801 | 1SS133 | SI DIODE | | | | |

BLOCK NO. 01111111

| A | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|-------|---------------|----------------|------------------|--------|
| | CG151 | QFP32AJ-561ZM | PP.CAPACITOR | 560PF 5% 100V | |
| | CG152 | QCS11HJ-101 | C.CAPACITOR | 100PF 5% 50V | |
| | CG153 | QCS11HJ-561 | C.CAPACITOR | 560PF 5% 50V | |
| | CG154 | QFLC1HJ-103ZM | M.CAPACITOR | -0.10MF 5% 50V | |
| | CG155 | QFLC1HJ-223ZM | M.CAPACITOR | -0.22MF 5% 50V | |
| | CG156 | QFLC1HJ-393ZM | M.CAPACITOR | -0.39MF 5% 50V | |
| | CG157 | QETC1EM-106ZN | E.CAPACITOR | 10MF 20% 25V | |
| | CG251 | QFP32AJ-561ZM | PP.CAPACITOR | 560PF 5% 100V | |
| | CG252 | QCS11HJ-101 | C.CAPACITOR | 100PF 5% 50V | |
| | CG253 | QCS11HJ-561 | C.CAPACITOR | 560PF 5% 50V | |
| | CG254 | QFLC1HJ-103ZM | M.CAPACITOR | -0.10MF 5% 50V | |
| | CG255 | QFLC1HJ-223ZM | M.CAPACITOR | -0.22MF 5% 50V | |
| | CG256 | QFLC1HJ-393ZM | M.CAPACITOR | -0.39MF 5% 50V | |
| | CG257 | QETC1EM-106ZN | E.CAPACITOR | 10MF 20% 25V | |
| | CG851 | QETC1EM-106ZN | E.CAPACITOR | 10MF 20% 25V | |
| | CG852 | QCS11HJ-100 | C.CAPACITOR | 10PF 5% 50V | |
| | CG853 | QETC1HM-105ZN | E.CAPACITOR | 1.0MF 20% 50V | |
| | CG854 | QETC1AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| | CG855 | QETC1AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| | CH851 | QETC1HM-475ZN | E.CAPACITOR | 4.7MF 20% 50V | |
| | CH852 | QETC1AM-107ZN | E.CAPACITOR | 100MF 20% 10V | |
| | CH853 | QETC1CM-337ZN | E.CAPACITOR | 330MF 20% 16V | |
| | CJ801 | QFLC1HJ-682ZM | M.CAPACITOR | 6800PF 5% 50V | |
| | CJ802 | QCS11HJ-681 | C.CAPACITOR | 680PF 5% 50V | |
| | CJ803 | QFLC1HJ-102ZM | M.CAPACITOR | 1000PF 5% 50V | |
| | CJ804 | QFL71HJ-394ZM | FILM CAPACITOR | -39MF 5% 50V | |
| | CJ805 | QETC1HM-104ZN | E.CAPACITOR | -10MF 20% 50V | |
| | CJ806 | QCF1HP-103 | C.CAPACITOR | -0.10MF +100:-0% | |
| | CL101 | QETC1EM-106ZN | E.CAPACITOR | 10MF 20% 25V | |
| | CL201 | QETC1EM-106ZN | E.CAPACITOR | 10MF 20% 25V | |
| | CL801 | QCF1HP-103 | C.CAPACITOR | -0.10MF +100:-0% | |
| | CL802 | QCF1HP-103 | C.CAPACITOR | -0.10MF +100:-0% | |
| | CNA81 | TTL25V-003 | CONNECTOR | HEAD BOARD | |
| | CNA85 | TTL25V-007 | CONNECTOR | TO B-HEAD BOARD | |
| | CNG85 | VMC023B-005Z | CONNECTOR | TES POINT | |
| | CN701 | VMC0166-004Z | CONNECTOR | A REAF SWITCH | |
| | CN703 | VMC0166-004Z | CONNECTOR | B LIEF SWITCH | |
| | CN704 | VMC0166-003Z | CONNECTOR | B LIEF SWITCH | |
| | CN705 | VMC0163-013 | CONNECTOR | INGICATOR | |
| | CN706 | VMC0163-013 | CONNECTOR | INGICATOR | |
| | CN709 | VMC0166-004Z | CONNECTOR | | |
| | CN710 | VMC0166-003Z | CONNECTOR | | |
| | CN804 | VMC0163-007 | CONNECTOR | INPUT&KEY | |
| | CN806 | VMC0166-003Z | CONNECTOR | HP AMP | |
| | CN901 | VMC0166-004Z | CONNECTOR | DOLBY SW | |
| | CP801 | QCF1HP-103 | C.CAPACITOR | -0.10MF +100:-0% | |
| | CP802 | QCF1HP-103 | C.CAPACITOR | -0.10MF +100:-0% | |
| | CR801 | QETC1HM-105ZN | E.CAPACITOR | 1.0MF 20% 50V | |
| | CR802 | QETC1HM-105ZN | E.CAPACITOR | 1.0MF 20% 50V | |
| | CS802 | QCS11HJ-471 | C.CAPACITOR | 470PF 5% 50V | |
| | D 701 | 1SS133 | SI DIODE | | |
| | D 702 | 1SS133 | SI DIODE | | |
| | D 703 | 1SS133 | SI DIODE | | |
| | D 704 | 1SS133 | SI DIODE | | |

BLOCK NO. 01111111

| A | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|-------|--------------|-----------------|--------------|--------|
| | Q 743 | 2SA733A(P,K) | TRANSISTOR | | |
| | Q 744 | UN4212 | TRANSISTOR | | |
| A | Q 745 | UN4212 | TRANSISTOR | | |
| A | Q 901 | 2S0882(P,Q) | TRANSISTOR | | |
| A | Q 903 | 2SB772(G,P) | TRANSISTOR | | |
| A | Q 905 | 2SB647(CD) | TRANSISTOR | | |
| A | Q 907 | 2SD2144S(VW) | TRANSISTOR | | |
| A | Q 908 | 2SD2144S(VW) | TRANSISTOR | | |
| A | Q 909 | 2SD882(P,Q) | TRANSISTOR | | |
| A | Q 912 | 2SD468(B,C) | TRANSISTOR | | |
| A | Q 913 | 2SA733A(P,K) | TRANSISTOR | | |
| A | Q 915 | 2SD468(B,C) | TRANSISTOR | | |
| | QA101 | UN4212 | TRANSISTOR | | |
| | QA154 | 2SK105(HJ) | TRANSISTOR(FET) | | |
| | QA201 | UN4212 | TRANSISTOR | | |
| | QA254 | 2SK105(HJ) | TRANSISTOR(FET) | | |
| | QA853 | UN4212 | TRANSISTOR | | |
| | QB151 | 2SC2001(L,K) | TRANSISTOR | | |
| | QB152 | UN4212 | TRANSISTOR | | |
| | QB251 | 2SC2001(L,K) | TRANSISTOR | | |
| | QB252 | UN4212 | TRANSISTOR | | |
| | QB851 | AN1F4M | TRANSISTOR | | |
| | QC151 | 2SC945 | TRANSISTOR | | |
| | QC152 | UN4212 | TRANSISTOR | | |
| | QC251 | 2SC945 | TRANSISTOR | | |
| | QC252 | UN4212 | TRANSISTOR | | |
| | QD851 | AN1F4M | TRANSISTOR | | |
| | QD852 | UN4212 | TRANSISTOR | | |
| | QE851 | 2SC2001(L,K) | TRANSISTOR | | |
| | QE852 | 2SC2001(L,K) | TRANSISTOR | | |
| | QH851 | 2SC2001(L,K) | TRANSISTOR | | |
| | QH852 | 2SA733A(P,K) | TRANSISTOR | | |
| | QI851 | 2SC945 | TRANSISTOR | | |
| | QJ801 | 2SC945 | TRANSISTOR | | |
| | QJ802 | 2SC945 | TRANSISTOR | | |
| | QK101 | 2SC2001(L,K) | TRANSISTOR | | |
| | QK201 | 2SC2001(L,K) | TRANSISTOR | | |
| | QK801 | 2SA733A(P,K) | TRANSISTOR | | |
| | QR101 | 2SC945 | TRANSISTOR | | |
| | QR201 | 2SC945 | TRANSISTOR | | |
| | QR801 | UN4212 | TRANSISTOR | | |
| | QR803 | UN4212 | TRANSISTOR | | |
| | R 701 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R 702 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| | R 703 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R 704 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 705 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 706 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| | R 707 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| | R 708 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| | R 709 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| | R 710 | QRD161J-221 | CARBON RESISTOR | 220 5% 1/6W | |
| | R 711 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| | R 712 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| | R 715 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |

BLOCK NO. 01111111

| A | REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|---|-------|----------------|----------------|-----------------|--------|
| | IC881 | AN6557F | IC | HEAD AMP. | |
| | IC882 | BU4066B | IC | A PB EQ SELECT | |
| | IC885 | AN6557F | IC | B-HEAD AMP. | |
| | IC886 | UPC1330HA | IC | HEAD R/P SW | |
| | IC885 | BA15218N | IC | REC AMP. | |
| | IC685 | BU4066B | IC | REC EQ SELECT | |
| | ICD85 | HA12142NT | IC | DOLBY NR | |
| | IC685 | UPC1297CA | IC | HX PRO | |
| | ICJ81 | LA2000S | IC | MS DETECT | |
| | ICL81 | BA15218N | IC | INGICATOR AMP | |
| | ICP81 | BA15218N | IC | HEAD PHONE AMP | |
| | ICR81 | BU4066B | IC | DDRP SWITCH | |
| | IC881 | BU4066B | IC | PB A-B SELECT | |
| | IC701 | MB88514B-1636T | IC | CONTROL MICOM | |
| | IC702 | M50253P | IC | PORT EXPANDER | |
| | IC703 | BA6218 | IC | A CAM M.DRIVE | |
| | IC704 | BA6218 | IC | B CAM M.DRIVE | |
| | IC705 | TAB409S | IC | A REEL M.DRIVE | |
| | IC706 | TAB409S | IC | B REEL M.DRIVE | |
| | IC901 | BA15218N | IC | REGULATOR | |
| A | J 701 | GMS353-001 | JACK | COMPU LINK JACK | |
| | JR801 | EMN00TV-402A | PIN JACK | | |
| | LB151 | VQP0001-183 | INDUCTOR | | |
| | LB152 | VQP0001-5622S | INDUCTOR | | |
| | LB251 | VQP0001-183 | INDUCTOR | | |
| | LB252 | VQP0001-5622S | INDUCTOR | | |
| | LD151 | VQZ0024-001 | FILTER | | |
| | LD251 | VQZ0024-001 | FILTER | | |
| | LE851 | VQH1008-031 | OSC COIL(BIAS) | | |
| | LG151 | VQH7001-021 | OSC COIL(BIAS) | | |
| | LG251 | VQH7001-021 | OSC COIL(BIAS) | | |
| | Q 701 | 2SC945 | TRANSISTOR | | |
| | Q 702 | 2SC945 | TRANSISTOR | | |
| | Q 703 | AN1F4M | TRANSISTOR | | |
| | Q 704 | 2SC945 | TRANSISTOR | | |
| | Q 705 | UN4212 | TRANSISTOR | | |
| | Q 706 | UN4212 | TRANSISTOR | | |
| | Q 707 | UN4212 | TRANSISTOR | | |
| | Q 708 | UN4212 | TRANSISTOR | | |
| | Q 712 | 2SC945 | TRANSISTOR | | |
| | Q 713 | 2SC945 | TRANSISTOR | | |
| | Q 714 | 2SC945 | TRANSISTOR | | |
| | Q 717 | AN1F4M | TRANSISTOR | | |
| | Q 718 | AN1F4M | TRANSISTOR | | |
| | Q 719 | AN1F4M | TRANSISTOR | | |
| | Q 720 | AN1F4M | TRANSISTOR | | |
| | Q 721 | UN4212 | TRANSISTOR | | |
| | Q 722 | UN4212 | TRANSISTOR | | |
| | Q 723 | UN4212 | TRANSISTOR | | |
| | Q 730 | 2SC945 | TRANSISTOR | | |
| | Q 731 | 2SC945 | TRANSISTOR | | |
| | Q 732 | 2SC945 | TRANSISTOR | | |
| | Q 740 | 2SA733A(P,K) | TRANSISTOR | | |
| | Q 741 | 2SA733A(P,K) | TRANSISTOR | | |
| | Q 742 | 2SA733A(P,K) | TRANSISTOR | | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-----------------|--------------|----------|
| R 716 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 717 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| R 718 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 719 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 720 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 721 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 722 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 723 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| R 724 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 725 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 726 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 727 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 728 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 729 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 730 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 731 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 732 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 733 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 734 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 740 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 741 | QRD161J-223 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 736 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 738 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 739 | QRD161J-473 | CARBON RESISTOR | 47K 5% 1/6W | |
| R 740 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 741 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 742 | QRD161J-224 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 743 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| R 745 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| R 746 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 747 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 748 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 749 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 750 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| R 751 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 752 | QRD161J-153 | CARBON RESISTOR | 15K 5% 1/6W | |
| R 753 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 754 | QRD161J-224 | CARBON RESISTOR | 220K 5% 1/6W | |
| R 755 | QRD14CJ-4R7SX | UNF.-C.RESISTOR | 4.7 5% 1/4W | C,J |
| R 755 | QRH144J-4R7 | FUSI.RESISTOR | 4.7 5% 1/4W | A,B,E,EN |
| R 757 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 758 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R 759 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R 760 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 761 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R 762 | QRD161J-471 | CARBON RESISTOR | 470 5% 1/6W | |
| R 763 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 764 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| R 765 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R 766 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R 767 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| R 768 | QRD167J-391 | CARBON RESISTOR | 390 5% 1/6W | |
| R 788 | QRD161J-391 | CARBON RESISTOR | 390 5% 1/6W | |
| R 789 | QRD161J-391 | CARBON RESISTOR | 390 5% 1/6W | |
| R 901 | QRD14CJ-4R7SX | UNF.-C.RESISTOR | 4.7 5% 1/4W | C,J |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-----------------|--------------|----------|
| R 901 | QRZ0077-4R7X | CARBON RESISTOR | 4.7 5% 1/4W | G,U,UT |
| R 901 | QRZ0077-4R7X | CARBON RESISTOR | 4.7 5% 1/4W | A,B,E,EN |
| R 902 | QRZ0077-4R7X | FMF.-F.RESISTOR | 4.7 5% 1/4W | G,U,UT |
| R 902 | QRD14CJ-4R7SX | UNF.-C.RESISTOR | 4.7 5% 1/4W | C,J |
| R 902 | QRZ0077-4R7X | FUSE RESISTOR | 4.7 5% 1/4W | A,B,E,EN |
| R 908 | QRD161J-181 | CARBON RESISTOR | 180 5% 1/6W | |
| R 910 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 912 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 913 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 914 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 915 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 917 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 918 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 919 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R 920 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R 921 | QRZ0077-100X | CARBON RESISTOR | 10 5% 1/4W | A,B,E,EN |
| R 921 | QRZ0077-100X | FUSI.RESISTOR | 10 5% 1/4W | G,U,UT |
| R 921 | QRD14CJ-100SX | CARBON RESISTOR | 10 5% 1/4W | C,J |
| R 923 | QRD161J-821 | CARBON RESISTOR | 820 5% 1/6W | |
| R 927 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R 928 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R 931 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 933 | QRD14CJ-331SX | CARBON RESISTOR | 330 5% 1/4W | |
| R 937 | QRD14CJ-4R7SX | CARBON RESISTOR | 4.7 5% 1/4W | |
| R 937 | QRZ0077-4R7X | UNF.-C.RESISTOR | 4.7 5% 1/4W | C,J |
| R 937 | QRZ0077-4R7X | CARBON RESISTOR | 4.7 5% 1/4W | G,U,UT |
| R 938 | QRD14CJ-331SX | CARBON RESISTOR | 330 5% 1/4W | A,B,E,EN |
| R 940 | QRD14CJ-6R8SX | CARBON RESISTOR | 6.8 5% 1/4W | |
| R 940 | QRH144J-6R8 | FUSI.RESISTOR | 6.8 5% 1/4W | A,B,E,EN |
| R 940 | QRH144J-6R8 | FUSI.RESISTOR | 6.8 5% 1/4W | A,B,E,EN |
| R 942 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| RA101 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RA102 | QRD161J-105 | CARBON RESISTOR | 1.0M 5% 1/6W | |
| RA104 | QRD161J-394 | CARBON RESISTOR | 390K 5% 1/6W | |
| RA105 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| RA106 | QRD161J-392 | CARBON RESISTOR | 3.9K 5% 1/6W | |
| RA107 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| RA108 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| RA109 | QRD161J-180 | CARBON RESISTOR | 18 5% 1/6W | |
| RA111 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| RA112 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RA113 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| RA114 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| RA151 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RA154 | QRD161J-394 | CARBON RESISTOR | 390K 5% 1/6W | |
| RA155 | QRD167J-682 | CARBON RESISTOR | 6.8K 5% 1/6W | |
| RA158 | QRD161J-512 | CARBON RESISTOR | 5.1K 5% 1/6W | |
| RA159 | QRD161J-180 | CARBON RESISTOR | 18 5% 1/6W | |
| RA161 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| RA162 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RA163 | QRD161J-123 | CARBON RESISTOR | 12K 5% 1/6W | |
| RA164 | QRD167J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| RA165 | QRD161J-105 | CARBON RESISTOR | 1.0M 5% 1/6W | |
| RA201 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RA202 | QRD161J-105 | CARBON RESISTOR | 1.0M 5% 1/6W | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-----------------|-----------------|--------|
| VR422 | QVZ3523-203AZ | V-RESISTOR | A PB EQ ADJ | |
| VR425 | QVZ3523-101 | V-RESISTOR | B PB LEVEL ADJ | |
| VR426 | QVZ3523-203AZ | V-RESISTOR | B PB EQ ADJ | |
| VRB15 | QVZ3523-203AZ | V-RESISTOR | B REC LEVEL ADJ | |
| VRB25 | QVZ3523-203AZ | V-RESISTOR | B REC LEVEL ADJ | |
| VRG15 | QVZ3523-203AZ | V-RESISTOR | B BIAS ADJ | |
| VRG25 | QVZ3523-203AZ | V-RESISTOR | B BIAS ADJ | |
| VR701 | QVPE612-103ZM | SEMI.V.RESISTOR | A N.SPEED ADJ | |
| VR702 | QVPE612-203ZM | SEMI.V.RESISTOR | A H.SPEED ADJ | |
| VR703 | QVPE612-103ZM | SEMI.V.RESISTOR | B N.SPEED ADJ | |
| VR704 | QVPE612-203ZM | SEMI.V.RESISTOR | B H.SPEED ADJ | |

BLOCK NO. 01111111

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|---------------|-----------------|----------------|--------|
| RL103 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| RL104 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| RL105 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| RL106 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RL201 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| RL202 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RL203 | QRD161J-683 | CARBON RESISTOR | 68K 5% 1/6W | |
| RL204 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| RL205 | QRD161J-220 | CARBON RESISTOR | 22 5% 1/6W | |
| RL206 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RP101 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| RP102 | QRD161J-124 | CARBON RESISTOR | 120K 5% 1/6W | |
| RP103 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RP104 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| RP105 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| RP201 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| RP202 | QRD161J-124 | CARBON RESISTOR | 120K 5% 1/6W | |
| RP203 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RP204 | QRD161J-562 | CARBON RESISTOR | 5.6K 5% 1/6W | |
| RP205 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| RQ101 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| RQ102 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| RQ103 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RQ106 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| RQ201 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| RQ202 | QRD161J-393 | CARBON RESISTOR | 39K 5% 1/6W | |
| RQ203 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RQ206 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| RR801 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RR803 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| RR804 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RR805 | QRD161J-101 | CARBON RESISTOR | 100 5% 1/6W | |
| RR806 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RR101 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RR102 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RR103 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| RR104 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| RR201 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RR202 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RR203 | QRD161J-823 | CARBON RESISTOR | 82K 5% 1/6W | |
| RR204 | QRD161J-332 | CARBON RESISTOR | 3.3K 5% 1/6W | |
| RR801 | QRD161J-223 | CARBON RESISTOR | 22K 5% 1/6W | |
| RR805 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RR806 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| RR807 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RS801 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RS802 | QRD161J-104 | CARBON RESISTOR | 100K 5% 1/6W | |
| RS803 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RS804 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| RS805 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| VR411 | QVZ3523-101 | V-RESISTOR | A PB LEVEL ADJ | |
| VR412 | QVZ3523-203AZ | V-RESISTOR | A PB EQ ADJ | |
| VR415 | QVZ3523-101 | V-RESISTOR | B PB LEVEL ADJ | |
| VR416 | QVZ3523-203AZ | V-RESISTOR | B PB EQ ADJ | |
| VR421 | QVZ3523-101 | V-RESISTOR | A PB LEVEL ADJ | |

1 2 3 4 5

■ Sub Board

A
B
C
D
E
F
G

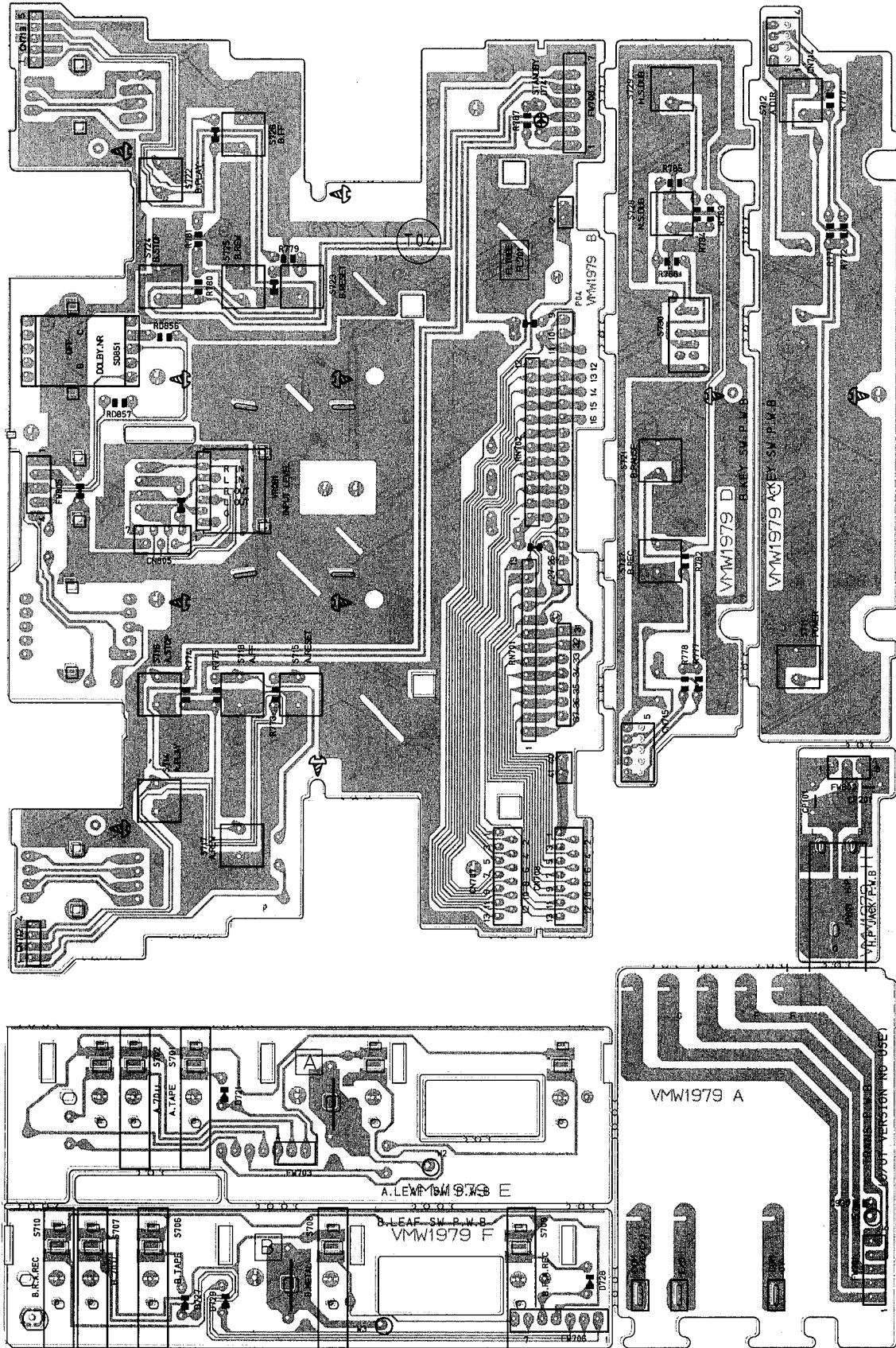


Fig 7 - 2

▲ Parts are safety assurance parts.
When replacing those parts,
make sure to use the specified one.

● Sub /powerSupply Board Parts List

● Sub Board Paers List

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|--------------|-----------------|-----------------|--------|
| C 930 | QCVB1CM-103Y | C-CAPACITOR | .010MF 20% 16V | |
| CN707 | VMC0163-013 | CONNECTOR | INGICATOR | |
| CN708 | VMC0163-013 | CONNECTOR | INGICATOR | |
| CN712 | VMC0280-004 | CONNECTOR | POWER/A-DIR SW | |
| CN713 | VMC0280-005 | CONNECTOR | B KEY SWITCH | |
| CN714 | VMC0281-004 | CONNECTOR | POWER/A-DIR SW | |
| CN715 | VMC0281-005 | CONNECTOR | B KEY SWITCH | |
| CN805 | VMC0163-007 | CONNECTOR | INPUT&KEY | |
| CP101 | QCF11HP-223 | C-CAPACITOR | .022MF +100:-0% | |
| CP201 | QCF11HP-223 | C-CAPACITOR | .022MF +100:-0% | |
| D 721 | 1SS133 | SI DIODE | | |
| D 727 | 1SS133 | SI DIODE | | |
| D 728 | 1SS133 | SI DIODE | | |
| D 741 | SLR-55VCF08 | LED | | |
| FL701 | BJ1506K | FL TUBE | | |
| JP801 | QMS6032-V01 | JACK | H-P JACK | |
| R 770 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 771 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| R 772 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| R 773 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R 774 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 775 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| R 777 | QRD161J-222 | CARBON RESISTOR | 2.2K 5% 1/6W | |
| R 778 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| R 779 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R 780 | QRD161J-102 | CARBON RESISTOR | 1.0K 5% 1/6W | |
| R 781 | QRD161J-122 | CARBON RESISTOR | 1.2K 5% 1/6W | |
| R 782 | QRD161J-182 | CARBON RESISTOR | 1.8K 5% 1/6W | |
| R 783 | QRD161J-272 | CARBON RESISTOR | 2.7K 5% 1/6W | |
| R 784 | QRD161J-472 | CARBON RESISTOR | 4.7K 5% 1/6W | |
| R 785 | QRD161J-822 | CARBON RESISTOR | 8.2K 5% 1/6W | |
| R 786 | QRD161J-273 | CARBON RESISTOR | 27K 5% 1/6W | |
| R 787 | QRD161J-151 | CARBON RESISTOR | 150 5% 1/6W | |
| R 856 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| R 857 | QRD161J-103 | CARBON RESISTOR | 10K 5% 1/6W | |
| RN701 | QRB125J-473 | R-NETWORK | 47K 5% 1/2W | |
| RN702 | QRB115J-473 | R-NETWORK | 47K 5% 1/1W | |
| S 701 | VSH1140-006 | LEAF SWITCH | A TAPE | |
| S 702 | VSH1140-006 | LEAF SWITCH | A EQ70MICRO | |
| S 706 | VSH1140-006 | LEAF SWITCH | B TAPE | |
| S 707 | VSH1140-006 | LEAF SWITCH | B EQ70MICRO | |
| S 708 | VSH1140-006 | LEAF SWITCH | B METAL | |
| S 709 | VSH1140-006 | LEAF SWITCH | B F-A.REC | |
| S 710 | VSH1140-006 | LEAF SWITCH | B R.A.REC | |
| S 711 | QS84H11-V01 | TACT SWITCH | KEY A-DIRECTION | |
| S 712 | QS84H11-V01 | TACT SWITCH | KEY A-PLAY | |
| S 715 | QS84H11-V01 | TACT SWITCH | KEY A-COUNTER | |
| S 716 | QS84H11-V01 | TACT SWITCH | KEY A-STOP | |
| S 717 | QS84H11-V01 | TACT SWITCH | KEY A-REV | |
| S 718 | QS84H11-V01 | TACT SWITCH | KEY A-FF | |
| S 720 | QS84H11-V01 | TACT SWITCH | KEY B-DIRECTION | |
| S 721 | QS84H11-V01 | TACT SWITCH | KEY B-PAUSE | |
| S 722 | QS84H11-V01 | TACT SWITCH | KEY B-PLAY | |
| S 723 | QS84H11-V01 | TACT SWITCH | KEY B-COUNTER | |

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|-------------|---------------|-----------------|--------|
| S 724 | QS84H11-V01 | TACT SWITCH | KEY B-STOP | |
| S 725 | QS84H11-V01 | TACT SWITCH | KEY B-REW | |
| S 726 | QS84H11-V01 | TACT SWITCH | KEY B-FF | |
| S 727 | QS84H11-V01 | TACT SWITCH | KEY B-REC | |
| S 728 | QS84H11-V01 | TACT SWITCH | KEY N.S.DUB | |
| S 729 | QS84H11-V01 | TACT SWITCH | KEY H.S.DUB | |
| S 730 | QSS7423-V03 | SLIDE SWITCH | REV.MODE SWITCH | |
| SB851 | QSR2D13-V02 | ROTARY SWITCH | (DOLBY SW) | |
| TAB | VMZ0034-002 | TAB | FOR POWER CORD | |
| VR081 | QVDB22A-V02 | V-RESISTOR | INPUT LEVEL | |

■ Power supply Board (U/UT only)

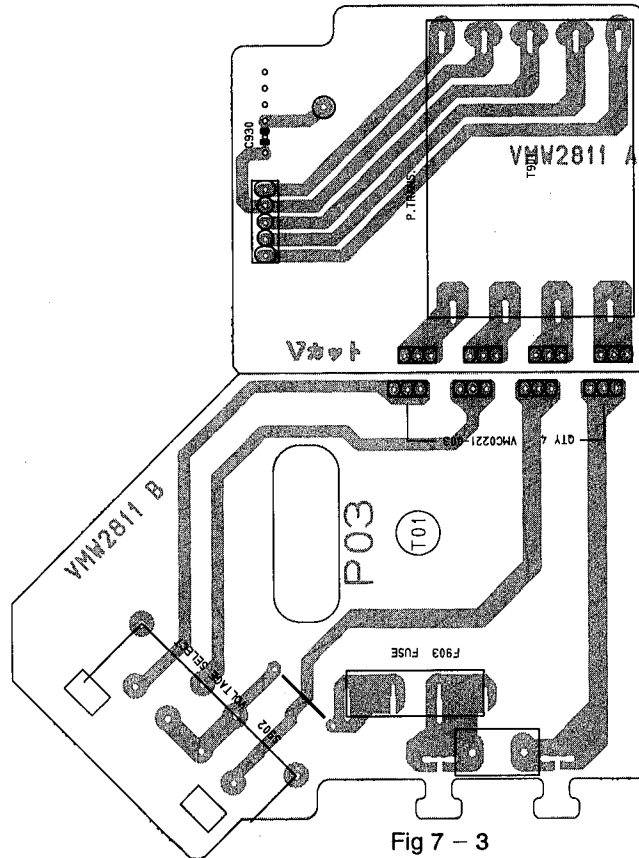
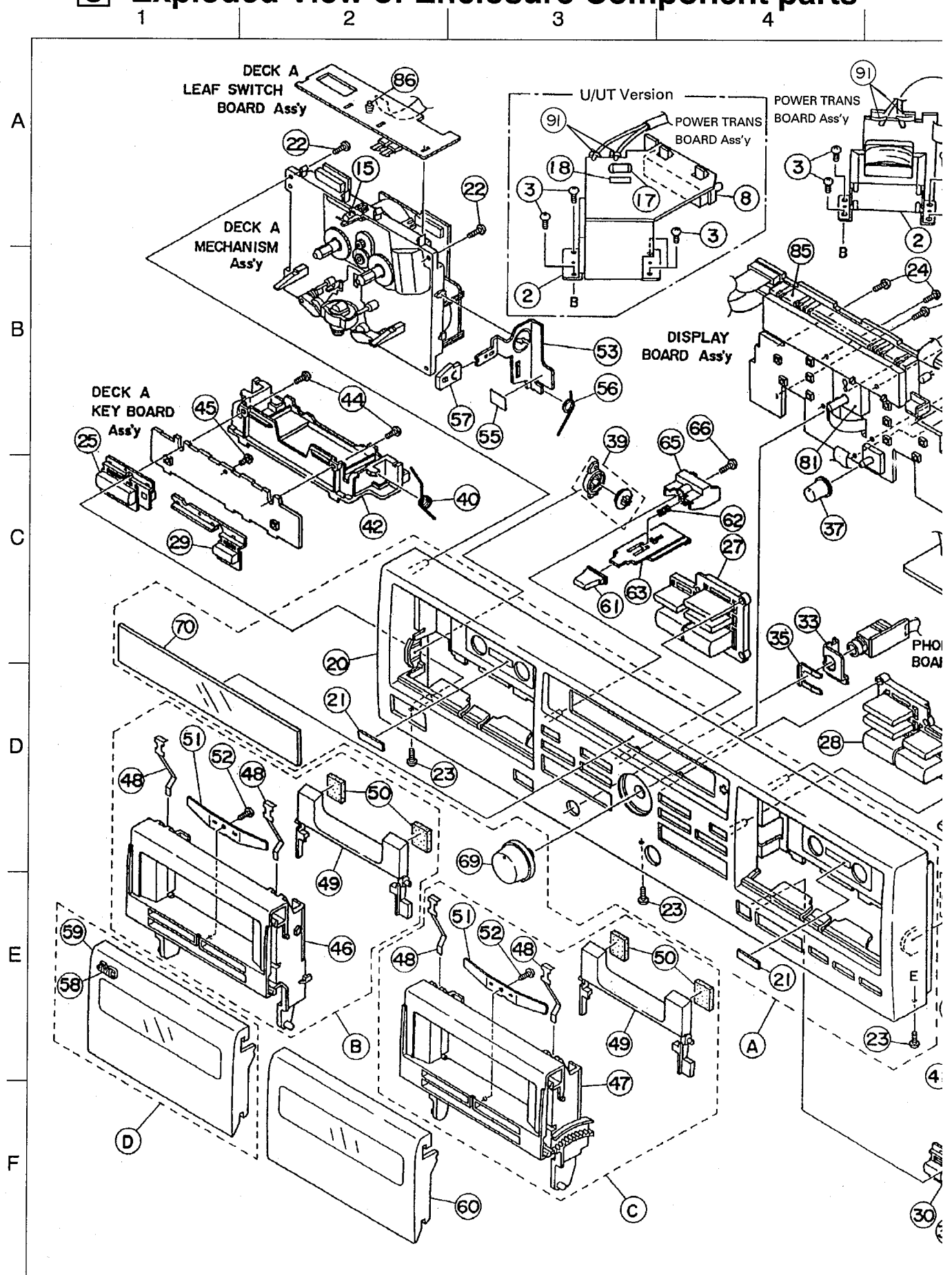


Fig 7 - 3

● Power Supply Board Parts Liat

| REF. | PARTS NO. | PARTS NAME | REMARKS | SUFFIX |
|-------|--------------|--------------|-----------------|-------------------------|
| C 930 | QCF11HP-103 | C-CAPACITOR | .010MF +100:-0% | |
| CN905 | VMC0221-003 | CONNECTOR | BOARD CONNECT | U-UT |
| CN906 | VMC0221-003 | CONNECTOR | BOARD CONNECT | U-UT |
| CN907 | VMC0221-003 | CONNECTOR | BOARD CONNECT | U-UT |
| CN908 | VMC0221-003 | CONNECTOR | BOARD CONNECT | U-UT |
| F 903 | VMZ0043-001S | FUSE CLAMP | FOR F903 | U-UT |
| S 902 | QSS2325-112 | SLIDE SWITCH | | U-UT |
| F 903 | CMF51A2-R315 | FUSE | 315ma | U-UT (Refer to page35.) |
| T 901 | VTP2G5-011F | POWER TRANS. | | U-UT |

8 Exploded View of Enclosure Component parts



5

6

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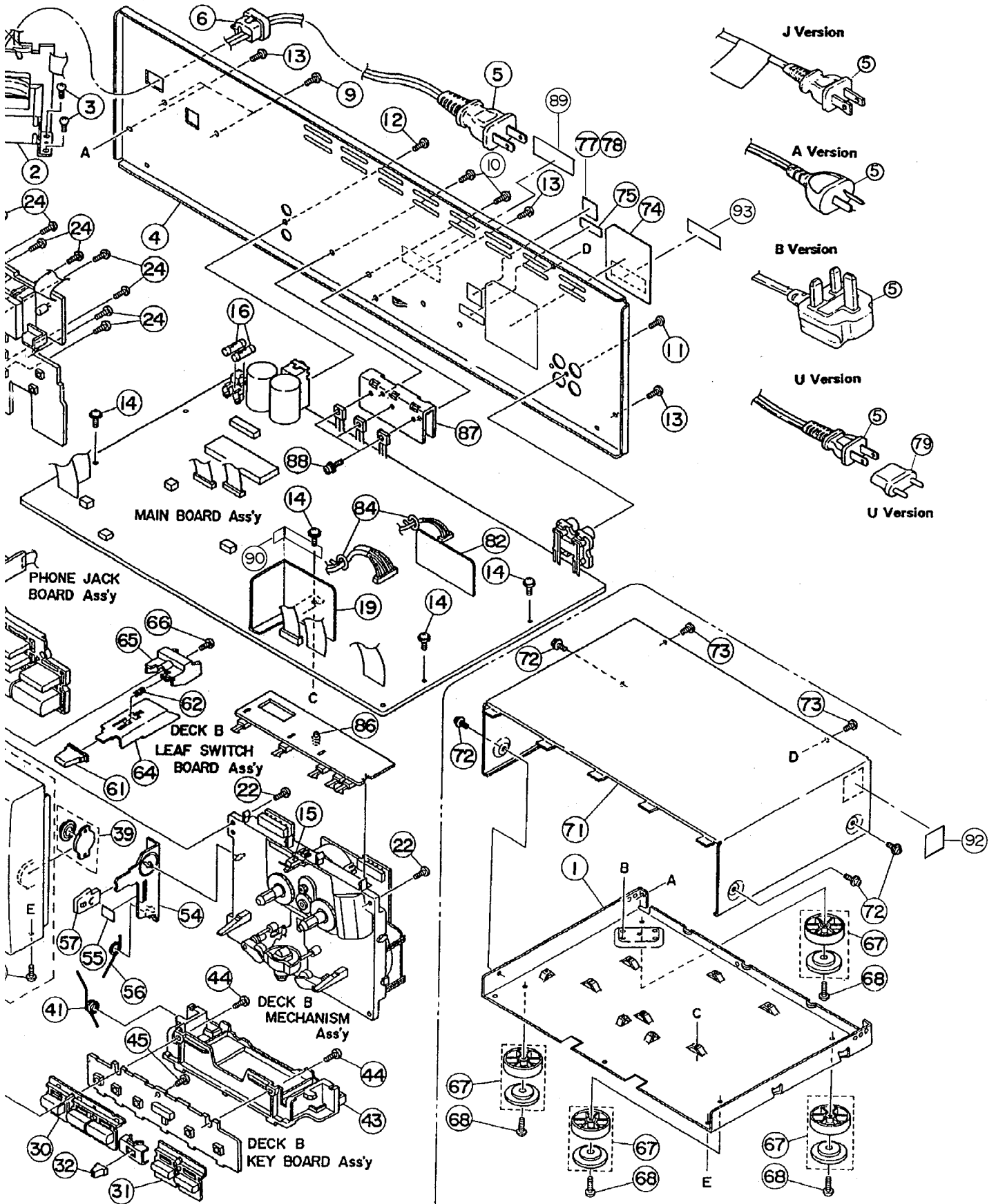


Fig 8 - 1

△Parts are safety assurance parts.
When replacing those parts,
make sure to use the specified one.

● Enclosure Component Parts List

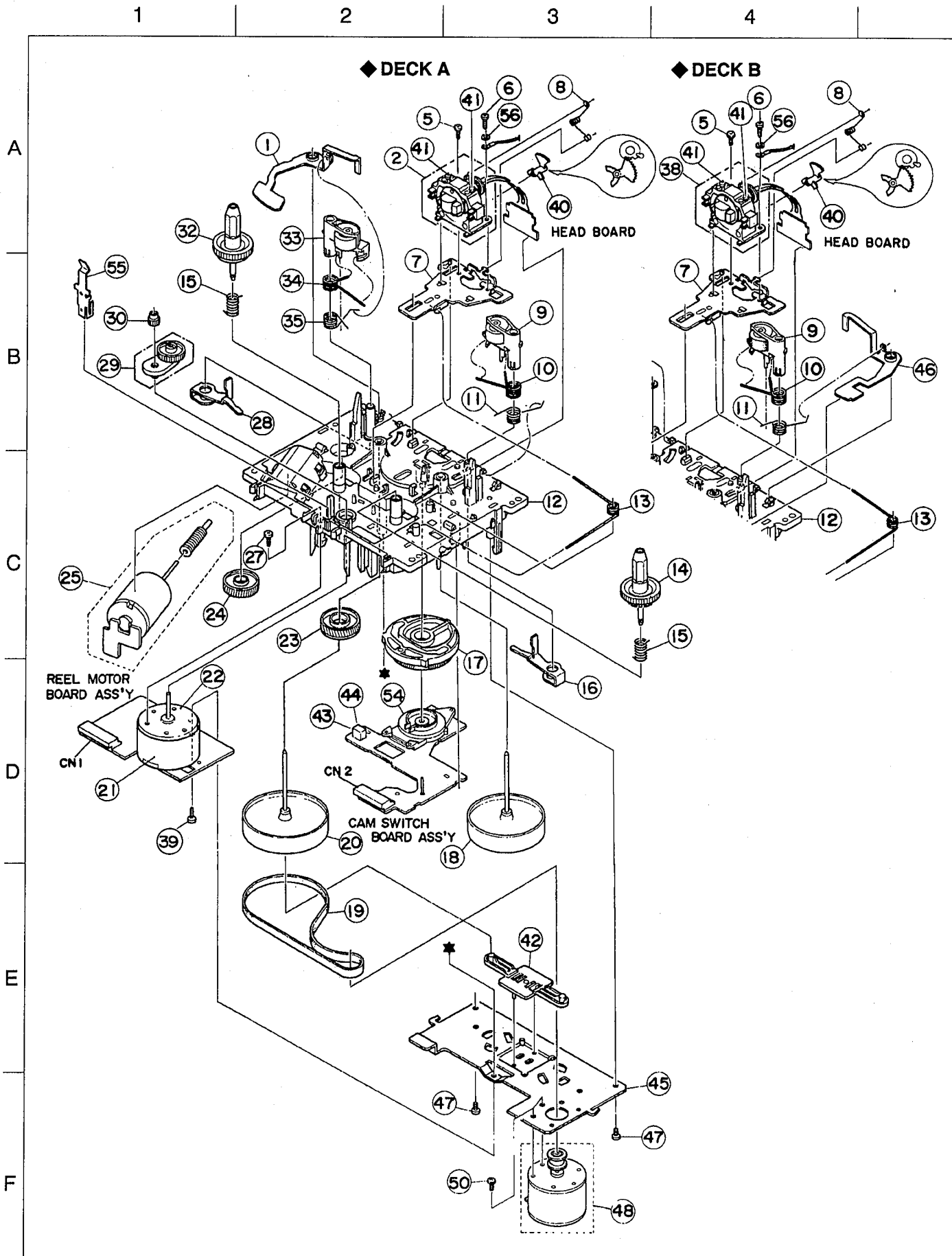
BLOCK NO. MIMM

| △ REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|--------|----------------|-----------------|-----------------|-----|-----------------|-----|
| A | ZCTDW315J-FTN | FRONT PANEL | | 1 | C,J | TN |
| | ZCTDW316K-FB | FRONT PANEL | | 1 | A,B,E,EN,G,U,UT | BK |
| B | ZCTDW316K-CH-A | CASSETTE HOLDER | DECK A | 1 | | |
| C | ZCTDW316K-CH-B | CASSETTE HOLDER | DECK B | 1 | | |
| D | ZCTDW315K-CL | CASSETTE LID | DECK A | 1 | C,J | TN |
| | ZCTDW316K-CL | CASSETTE LID | DECK A | 1 | A,B,E,EN,G,U,UT | BK |
| 1 | VKL1333-009 | CHASSIS BASE | | 1 | | |
| 2 | VTP5225-011F | POWER TRANS. | FOR T901 | 1 | A,B,E,EN,G | |
| | VTP52A5-011F | POWER TRANS. | FOR T901 | 1 | C,J | |
| | VTP52G5-011F | POWER TRANS. | FOR T901 | 1 | U,UT | |
| 3 | SBST3006Z | SCREW | FOR POWER TRANS | 4 | | |
| 4 | VJC2410-036 | REAR PANEL | | 1 | C,J | TN |
| | VJC2410-039 | REAR PANEL | | 1 | U,UT | BK |
| | VJC2410-038 | REAR PANEL | | 1 | A,B,E,EN,G | BK |
| 5 | QMP7380-200 | POWER CORD | | 1 | U,UT | |
| | QMP5530-008 | POWER CORD | | 1 | B | |
| | QMP3900-200 | POWER CORD | | 1 | E,EN,G | |
| | QMP2560-200 | POWER CORD | | 1 | A | |
| | QMP1340-200 | POWER CORD | | 1 | J | |
| | QMP1200-200 | POWER CORD | | 1 | C | |
| 6 | QHS3771-108 | CORD STOPPER | | 1 | | |
| 8 | VKS5011-001 | VOLTAGE CONTACT | | 1 | U,UT | |
| 9 | SBSF3008M | SCREW | VOLTAGE SELECT | 2 | U,UT | |
| 10 | SBSF3008M | SCREW | FOR HEAT SINK | 2 | | |
| 11 | SBSF3008M | SCREW | FOR PIN JACK | 1 | | |
| 12 | SBSF3008M | SCREW | FOR DCS JACK | 1 | | |
| 13 | SBST3006M | SCREW | FOR REAR+CHASSI | 3 | | |
| 14 | GBST3006Z | SCREW | FOR MAIN P.C.BO | 4 | | |
| 15 | VKY4628-002 | PACK SPRING | | 2 | | |
| 16 | QMF51E2-R80SBS | FUSE | FOR F901,F902 | 2 | G,U,UT | |
| | QMF51E2-R80SBS | FUSE | FOR F901,F902 | 2 | A,E,EN | |
| | QMF51E2-R80SBS | FUSE | FOR F901,F902 | 2 | B | |
| 17 | QMF51A2-R315 | FUSE | FOR F903 | 1 | U,UT | |
| 18 | VND4003-074 | FUSE LABEL | FOR F903 | 1 | U,UT | |
| 19 | VMA4596-001 | SHIELD CASE | | 1 | | |
| 20 | VJG1205-015UL | FRONT PANEL | | 1 | C,J | TN |
| | VJG1205-016 | FRONT PANEL | | 1 | G,U,UT | BK |
| | VJG1205-016 | FRONT PANEL | | 1 | A,B,E,EN | BK |
| 21 | VJD4024-001 | REFLECTION PLAT | | 2 | | |
| 22 | SBSF3014Z | SCREW | FOR MECHANISM | 4 | | |
| 23 | SBST3006M | SCREW | FOR FRONT PANEL | 3 | | |
| 24 | SBSF2608Z | SCREW | FOR FL BOARD | 8 | | |
| 25 | VXP5178-003 | PUSH BUTTON | FOR POWER | 1 | | TN |
| | VXP5178-004 | PUSH BUTTON | FOR POWER | 1 | | BK |
| 27 | VXP3559-004 | MECHA BUTTON | A PLAY/STOP | 1 | | BK |
| | VXP3559-003 | MECHA BUTTON | A PLAY/STOP | 1 | | TN |
| 28 | VXP3560-003 | MECHA BUTTON | B PLAY/STOP | 1 | | TN |
| | VXP3560-004 | MECHA BUTTON | B PLAY/STOP | 1 | | BK |
| 29 | VXP3561-004 | MECHA BUTTON | A DIRECTION | 1 | | BK |
| | VXP3561-003 | MECHA BUTTON | A DIRECTION | 1 | | TN |
| 30 | VXP3562-001 | MECHA BUTTON | B REC/PAUSE | 1 | | TN |
| | VXP3562-002 | MECHA BUTTON | B REC/PAUSE | 1 | | BK |
| 31 | VXP3563-002 | MECHA BUTTON | DUBBING | 1 | | BK |
| | VXP3563-001 | MECHA BUTTON | DUBBING | 1 | | TN |
| 32 | VXS4394-001 | SLIDE KNOB | REV.MODE | 1 | | TN |
| | VXS4394-002 | SLIDE KNOB | REV.MODE | 1 | | BK |
| 33 | VKL7265-003 | JACK BRACKET | FOR H.P.JACK | 1 | | |
| 35 | VKL6752-001 | SNAP PLATE | FOR H.P.JACK | 1 | | |
| 37 | VXL4425-001 | KNOB | FOR DOLBY NR | 1 | | TN |
| | VXL4425-002 | KNOB | FOR DOLBY NR | 1 | | BK |
| 39 | VYH7779-00B | DUMPER ASS'Y | | 2 | | |

BLOCK NO. M1MM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|----------------|-----------------|-----------------|-----|--------|-----|
| 40 | VKW3006-228 | TORSION SPRING | A-HOLDER | 1 | | |
| 41 | VKW3006-229 | TORSION SPRING | B-HOLDER | 1 | | |
| 42 | VYH2275-001 | MECHA HOLDER | A MECHANISM | 1 | | |
| 43 | VYH2275-101 | MECHA HOLDER | B MECHANISM | 1 | | |
| 44 | SBSF2608Z | SCREW | FOR MECHANISM B | 4 | | |
| 45 | SBSF2608Z | SCREW | FOR A B PWB | 2 | | |
| 46 | VJT2317-003 | CASSETTE HOLDER | FOR A MECHANISM | 1 | | |
| 47 | VJT2317-004 | CASSETTE HOLDER | FOR B MECHANISM | 1 | | |
| 48 | VKY4180-001 | CASSETTE SPRING | | 4 | | |
| 49 | VJD3867-001 | C.STABILIZER | | 2 | | |
| 50 | VYTS491-001 | PAD | | 4 | | |
| 51 | VKY4635-002 | SPRING PLATE | | 2 | | |
| 52 | SBSF2608Z | SCREW | FOR SPRING PLAT | 2 | | |
| 53 | VKM3476-001 | LOCK LEVER (R) | FOR A-MECHANISM | 1 | | |
| 54 | VKM3475-002 | LOCK LEVER (L) | FOR B-MECHANISM | 1 | | |
| 55 | VYSS1R2-042 | SPACER | LOCK LEVER | 2 | | |
| 56 | VKW3006-217 | TORSHION SPRING | | 2 | | |
| 57 | VYH7424-002 | LOCK PLATE | | 2 | | |
| 58 | VJD5429-001 | JVC MARK | FOR C.LID | 1 | | |
| 59 | VJT2318-013 | CASSETTE LID | FOR A MECHANISM | 1 | | TN |
| | VJT2318-014 | CASSETTE LID | FOR A MECHANISM | 1 | | BK |
| 60 | VJT2318-004 | CASSETTE LID | FOR B MECHANISM | 1 | | BK |
| | VJT2318-002 | CASSETTE LID | FOR B MECHANISM | 1 | | TN |
| 61 | VXP5179-001 | PUSH BUTTON | FOR EJECT | 2 | | TN |
| | VXP5179-002 | PUSH BUTTON | FOR EJECT | 2 | | BK |
| 62 | VKW3001-077 | C.SPRING | | 2 | | |
| 63 | VKL7262-002 | REMOTE ARM | FOR A MECHANISM | 1 | | |
| 64 | VKL7263-002 | REMOTE ARM | FOR B MECHANISM | 1 | | |
| 65 | VYH7773-001 | BUTTON HOLDER | | 2 | | |
| 66 | SBSF2608Z | SCREW | FOR BUTTON HOLD | 2 | | |
| 67 | VJF4039-00E | FOOT ASS'Y | | 4 | | TN |
| | E406379-00BSS | FOOT ASS'Y | | 4 | | BK |
| 68 | SBST3008Z | SCREW | FOR FOOT | 4 | | |
| 69 | VXL3023-002 | KNOB | FOR INPUT VOLUM | 1 | | BK |
| | VXL3023-001 | KNOB | FOR INPUT VOLUM | 1 | | TN |
| 70 | VJK3607-001 | FINDER | | 1 | | TN |
| | VJK3607-002 | FINDER | | 1 | | BK |
| 71 | VJC1964-001 | TOP COVER | | 1 | | TN |
| | VJC1964-202 | TOP COVER | | 1 | | BK |
| 72 | VKZ4614-001 | SPECIAL SCREW | FOR TOP COVER S | 4 | | |
| 73 | SBST3006M | SCREW | FOR TOP COVER R | 2 | | |
| 74 | VYN2335-M008PA | NAME PLATE | | 1 | G | |
| | VYN2335-M003PA | NAME PLATE | | 1 | A | |
| | VYN2335-M002PA | NAME PLATE | | 1 | B | |
| | VYN2334-M004PA | NAME PLATE | | 1 | C | |
| | VYN2334-M006PA | NAME PLATE | | 1 | J | |
| | VYN2335-M005PA | NAME PLATE | | 1 | E,EN | |
| | VYN2335-M007PA | NAME PLATE | | 1 | U,UT | |
| 75 | VND4205-004 | CAUTION LABEL | C.R.L. CAUTION | 1 | B | |
| 77 | T44362-001 | CSA LABEL | | 1 | C | |
| 78 | E407097-001 | HYATT L.LABEL | | 1 | J | |
| 79 | V04062-001 | CONTI.PLUG | | 1 | U,UT | |
| 81 | VMA4587-001 | SHIELD PLATE | FOR INPUT VOL | 1 | | |
| 82 | VMA4142-001 | SHIELD PLATE(B) | | 1 | | |

9 Exploded View of Mechanism Component parts

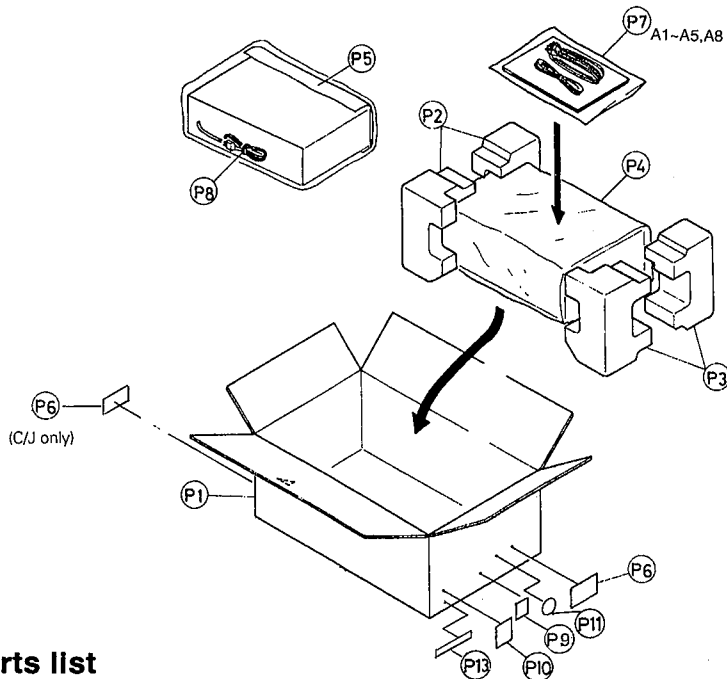


● Mechanism component parts List

BLOCK NO. M2MM

| △ | REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|----|------|----------------|-----------------|-----------------|-----|--------|-----|
| | 1 | VKL6954-007 | EJECT SAFETY(R) | DECK A | 1 | | |
| | 2 | VKS3550-#0D | HEAD MOUNT ASY | VDG5149-002MA1 | 1 | | |
| | 5 | SDST2004Z | SCREW | HEAD M.BASE | 1 | | |
| | 6 | SDST2005Z | SCREW | | 1 | | |
| | 7 | VKL6942-00E | HEAD BASE ASSY | | 1 | | |
| | 8 | VKW4994-001 | HEAD SPRING | FOR HEAD GEAR | 1 | | |
| | 9 | VKP4221-00C | PINCH R.(L)ASSY | | 1 | | |
| | 10 | VKW4982-001 | SPRING (L) | FOR PINCH ROLLE | 1 | | |
| | 11 | VKW4933-005 | TORSION SPRING | FOR RETURN (L) | 1 | | |
| | 12 | VKS1112-#0I | CHASSIS B ASS'Y | | 1 | | |
| | 13 | VKW4930-002 | RETURN SPRING | FOR HEAD BASE | 1 | | |
| | 14 | VKS3480-004 | REEL DISK | | 1 | | |
| | 15 | VKW4928-003 | B.T. SPRING | | 1 | | |
| | | VKW4928-003 | B.T. SPRING | | 1 | | |
| | 16 | VKL6940-002 | PINCH LEVER (L) | | 1 | | |
| | 17 | VKS2209-006 | CONTROL CAM | | 1 | | |
| | 18 | VKF3186-00B | FLYWHEEL(L)ASSY | | 1 | | |
| | 19 | VKB3001-049 | BELT | | 1 | | |
| | 20 | VKF3184-00B | FLYWHEEL(R)ASSY | | 1 | | |
| | 21 | FE-ZMS514 | SHIELD CORE | | 1 | | |
| | 22 | MMN-6F4RA38 | D.C.MOTOR | FOR REEL MOTOR | 1 | | |
| | 23 | VKS5331-003 | ACT GEAR(6) | | 1 | | |
| | 24 | VKS5330-004 | ACT. GEAR (5) | DECK A | 1 | | |
| | 25 | MXN13FB12F-SA2 | DC MOTOR ASS'Y | FOR ACTUATOR | 1 | | |
| | 27 | SDSP2605Z | SCREW | FOR REEL MOTOR | 1 | | |
| | 28 | VKL6939-002 | PINCH LEVER (R) | | 1 | | |
| | 29 | VKS5325-00F | FR ARM ASS'Y | | 1 | | |
| | 30 | VKS5328-002 | GEAR | | 1 | | |
| | 32 | VKS5321-00DS | T-UP REEL ASS'Y | | 1 | | |
| | 33 | VKP4219-00C | PINCH R.(R)ASSY | | 1 | | |
| | 34 | VKW4981-002 | P.R.SPRING(R) | FOR PINCH ROLLE | 1 | | |
| | 35 | VKW4932-005 | P.R. ARM SPRING | FOR RETURN (R) | 1 | | |
| | 38 | VKS3551-#0D | HEAD BLOCK | DECK B | 1 | | |
| | 39 | SDSF2608Z | SCREW | | 1 | | |
| | 40 | VKS3485-002 | HEAD GEAR (1) | | 1 | | |
| | 41 | VKZ4629-003 | SPECIAL SCREW | FOR AZIMUTH | 2 | | |
| | 42 | VKS5327-004 | THRUST PLATE | | 1 | | |
| | 43 | VKS3487-002 | IC HOLDER | | 1 | | |
| | 44 | DN6851A | HALL IC | | 1 | | |
| | 45 | VKM3416-004 | FM BRACKET | | 1 | | |
| | 46 | VKS6943-007 | EJECT SAFETY L | DECK B | 1 | | |
| | 47 | SDSF2605Z | SCREW | FOR FM BKT | 2 | | |
| | 48 | MMI6H2LWK-SA5 | MOTOR ASS'Y | FOR CAPSTAN | 1 | | |
| | 50 | SPSP2603Z | SCREW | FOR MOTOR | 2 | | |
| | 54 | VKS3587-00A | CAM SWITCH UNIT | | 1 | | |
| | 55 | VKY4628-002 | PACK SPRING | | 1 | | |
| | 56 | WNS2000N | WASHER | | 1 | | |
| C | 2 | QCF11HP-223 | C.CAPACITOR | FOR REEL | 1 | | |
| CN | 1 | VMC0249-R08N | CONNECTOR | FOR MOTOR | 1 | | |
| CN | 2 | VMC0249-R07N | SOCKET | FOR CAM/HALL IC | 1 | | |

10 Packing Illustration and packing parts list



● Packing parts list

BLOCK NO. MSMM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|----------------|----------------|-----------------|-----|--------|-----|
| P 1 | VPC2335-M002 | CARTON | TD-W316 | 1 | | BK |
| P 2 | VPC2334-M002 | CARTON | TD-W315 | 1 | | TN |
| P 3 | VPH2456-201 | CUSHION (L) | | .1 | | |
| P 4 | VPH2457-201 | CUSHION (R) | | 1 | | |
| P 5 | E300196-031B | ENVELOPE | FOR SET | 1 | | |
| P 6 | VPK3001-012 | SHEET | FOR SET | 1 | | |
| P 7 | TDW316BKG-LAB | COMPUTER LABEL | | 1 | G | |
| P 8 | TDW316BKB-LAB | COMPUTER LABEL | | 1 | B | |
| P 9 | TDW316BKEN-LAB | COMPUTER LABEL | | 1 | EN | |
| P 10 | TDW315TNC-LAB | COMPUTER LABEL | | 2 | C | |
| P 11 | TDW316BKU-LAB | COMPUTER LABEL | | 1 | U | |
| P 12 | TDW316BKA-LAB | COMPUTER LABEL | | 1 | A | |
| P 13 | TDW315TNJ-LAB | COMPUTER LABEL | | 2 | J | |
| P 14 | TDW316BKUT-LAB | COMPUTER LABEL | | 1 | UT | |
| P 15 | TDW316BKE-LAB | COMPUTER LABEL | | 1 | E | |
| P 16 | VPE3005-007 | POLY BAG | FOR INSTRUCTION | 1 | | |
| P 17 | Q04141H | WIRE CLAMP | FOR POWER CORD | 1 | | |
| P 18 | VND4909-001 | VOLTAGE LABEL | | 1 | U,UT | |
| P 19 | VYN2334-010 | NAME PLATE | | 1 | UT | |
| P 20 | QZLA001-011 | MARK | | 1 | E,EN,G | |
| P 21 | VND4992-001 | ORIGN LABEL | | 1 | UT | |

● Accessories

BLOCK NO. MSMM

| REF. | PARTS NO. | PARTS NAME | REMARKS | QTY | SUFFIX | CLR |
|------|--------------|-----------------|---------|-----|--------|-----|
| A 1 | VMPO039-00D | PIN CORD | | 1 | | |
| A 2 | VNN2334-671M | INSTRUCTIONS | | 1 | A,B,J | |
| A 3 | VNN2334-661M | INSTRUCTIONS | | 1 | G,U,UT | |
| A 4 | VNN2334-271M | INSTRUCTIONS | | 1 | EN | |
| A 5 | VNN2334-661M | INSTRUCTIONS | | 1 | C,E,EN | |
| A 6 | BT-20025L | WARRANTY CARD | | 1 | C | |
| A 7 | BT-20134 | WARRANTY CARD | | 1 | G | |
| A 8 | BT-20047F | WARRANTY CARD | | 1 | J | |
| A 9 | BT-20066A | WARRANTY CARD | | 1 | B | |
| A 10 | BT-56001-1 | WARRANTY CARD | | 1 | A | |
| A 11 | BT20060 | WARRANTY CARD | | 1 | B | |
| A 12 | BT-56002-1 | SERVIS CENTER L | | 1 | A | |
| A 13 | BT-20071B | SVC CENTER LIST | | 1 | C | |
| A 14 | BT-20137 | SERVICE NETWORK | | 1 | J | |
| A 15 | BT-20044G | SAFETY INST. | | 1 | J | |
| A 16 | E43486-340A | SAFETY I. SHEET | | 1 | | |
| A 17 | EWP805-001E | REMOTE WIRE | | 1 | | |



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