

# JVC

# SERVICE MANUAL

## STEREO DOUBLE CASSETTE DECK

### TD-W111

A/B/C/E/G/J/U



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# 1 Safety Precautions

1. The design of this product contains special hardware. 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 or additions will void the manufacturer's warranty and will further relieve the manufacturer 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 (  $\Delta$  ) on the schematics and parts list in 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 in 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/or the like to be separated from live parts, high temperature part, moving 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 they should be confirmed to be returned to normal, after re-assembling.

## 5. Leakage current check

(Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone 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 (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).

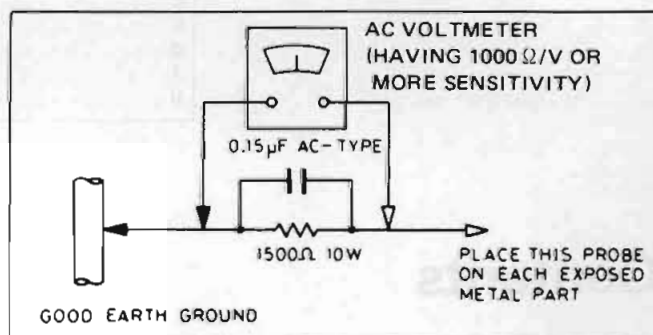
- Alternate check method.

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 1500  $\Omega$  10 W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).

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 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



## 2 Features

1. Two logic-control deck mechanisms
  - Double-speed dubbing functions reduces tape editing time by half.
2. Dolby\* B noise reduction system
3. 2-color 6-LED peak level indicator
4. Synchro start dubbing
5. Metal tape compatibility


## 3 Specifications

### (TD-W111A/B/C/J/U)

Type:	Stereo double cassette deck
Track system:	4-track, 2-channel
Tape speed:	1-7/8 inch/sec. (4.8 cm/sec.)
Frequency response (-20 dB recording)	
Metal tape;	30 - 16,000Hz 40 - 15,000 Hz ( $\pm 3$ dB)
Chrome tape;	30 - 16,000Hz 40 - 15,000 Hz ( $\pm 3$ dB)
Normal tape;	30 - 15,000Hz 40 - 14,000 Hz ( $\pm 3$ dB)
S/N ratio:	58 dB (S = 1 kHz, K3 = 3%, N = A-weighted, Metal tape) The S/N ratio is improved by 5 dB at 1 kHz and 10 dB at above 5 kHz with DOLBY B NR on.
Wow and flutter:	0.08% (WRMS)
Crosstalk:	60 dB (1 kHz)
Harmonic distortion:	K3; 0.5%, THD; 1.0% (metal tape, 1 kHz 0 dB)
Channel separation:	40 dB (1 kHz)
Heads:	Deck <b>A</b> ; METAPERM head for playback Deck <b>B</b> ; METAPERM head for recording/playback, 2-gap ferrite head for erasure
Motors:	Electronic governed DC motor for capstan/reel $\times$ 1 (For both decks <b>A</b> and <b>B</b> )
Fast Forward/Rewind time:	Approx. 100 sec. with C-60 cassette
Input terminals	
LINE IN $\times$ 2:	Min. input level; 80 mV Input impedance; 50k $\Omega$
Output terminals	
LINE OUT $\times$ 2:	Output level; 300 mV Output impedance; 5 k $\Omega$
PHONES $\times$ 1:	Output level; 0.3 mW/8 $\Omega$ Matching impedance; 8 $\Omega$ - 1 k $\Omega$
Other terminals:	Remote (COMPU LINK-1) $\times$ 2
Power requirement	
TD-W111A	AC 240V, 50/60 Hz
TD-W111C/J	AC 120 V, 60 Hz
TD-W111U	AC 230/127/110 V, 50/60 Hz
Power consumption:	With power on 16 W With power switch standby 1.6 W
Dimensions (W $\times$ H $\times$ D)	435 $\times$ 119 $\times$ 220mm (17-3/16" $\times$ 4-11/16" $\times$ 8-11/16")
Weight:	3.9kg (8.6lbs)
Accessories:	Pin plug cord... 2 Remote cable... 1

Design and specifications are subject to change without notice.

6. Auto tape select mechanism (deck A)
7. Remote (COMPU LINK-1) jack provided

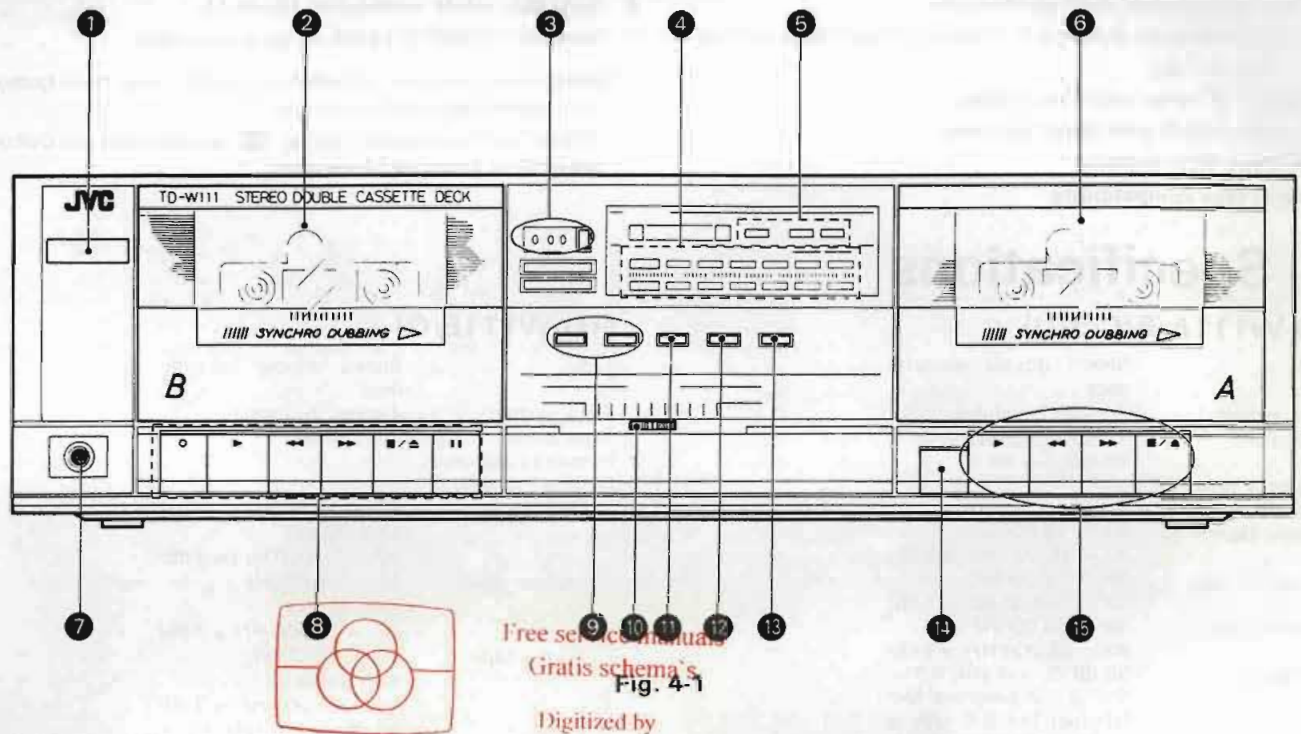
- \* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- \* "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

### (TD-W111E/G)

Type:	Stereo double cassette deck
Track system:	4-track, 2-channel
Tape speed:	4.8 cm/sec.
Frequency response (-20 dB recording)	
Metal tape;	30 - 16,000Hz (DIN 45500) 40 - 15,000 Hz ( $\pm 3$ dB)
Chrome tape;	30 - 16,000Hz (DIN 45500) 40 - 15,000 Hz ( $\pm 3$ dB)
Normal tape;	30 - 15,000Hz (DIN 45500) 40 - 14,000 Hz ( $\pm 3$ dB)
S/N ratio:	58 dB (S = 1 kHz, K3 = 3%, N = A-weighted, Metal tape) The S/N ratio is improved by 5 dB at 1 kHz and 10 dB at above 5 kHz with DOLBY B NR on.
Wow and flutter:	0.20% (DIN 45 500)
Crosstalk:	60 dB (1 kHz)
Harmonic distortion:	K3; 0.5%, THD; 1.0% (metal tape, 1 kHz 0 dB)
Channel separation:	40 dB (1 kHz)
Heads:	Deck <b>A</b> ; METAPERM head for playback Deck <b>B</b> ; METAPERM head for recording/playback, 2-gap ferrite head for erasure
Motors:	Electronic governed DC motor for capstan/reel $\times$ 1 (For both decks <b>A</b> and <b>B</b> )
Fast Forward/Rewind time:	Approx. 100 sec. with C-60 cassette
Input terminals	
LINE IN $\times$ 2:	Min. input level; 80 mV Input impedance; 50k $\Omega$
Output terminals	
LINE OUT $\times$ 2:	Output level; 300 mV Output impedance; 5 k $\Omega$
PHONES $\times$ 1:	Output level; 0.3 mW/8 $\Omega$ Matching impedance; 8 - 1 k $\Omega$
DIN $\times$ 1:	Min. input level; 0.1 mV (for TD-W111G) Input impedance; 10k $\Omega$ Output level; 0.3 V Output impedance; 5 k $\Omega$
Other terminals:	Remote (COMPU LINK-1) $\times$ 2
Power requirement:	AC 220V, 50/60 Hz
Power consumption:	With power on 16 W With power switch standby 1.6 W
Dimensions (W $\times$ H $\times$ D)	435 $\times$ 119 $\times$ 220 mm
Weight:	3.9kg
Accessories:	Pin plug cord... 2 Remote cable... 1

Design and specifications are subject to change without notice.

## 4 Name of Control and Their Functions



### 1 POWER switch

### 2 Cassette holder (deck B)

### 3 TAPE COUNTER and RESET button (deck B)

### 4 PEAK LEVEL INDICATOR

These indicate the recording level during recording and output level during playback. The LED indication varies with the signal strength during recording and playback.

### 5 Indicators

#### • REC

This lights when deck B is in the recording and record-pause mode.

#### • HIGH

This lights when in the double-speed dubbing.

#### • DUB

This lights to indicate that the unit is in the dubbing mode.

### 6 Cassette holder (deck A)

### 7 PHONES jack

Connect headphones (with an impedance of  $8\Omega - 1k\Omega$ ).

### 8 Cassette operation buttons (deck B)

#### ○ (record):

Press to record the tape.

#### ▶ (play):

Press to play the tape.

#### ◀◀ (rewind):

Press to rewind the tape.

#### ▶▶ (fast forward):

Press to fast forward the tape.

#### ■/▲ (stop/eject):

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder. (The tape automatically stops when it reaches the end.)

#### || (pause):

Press to temporarily stop the tape in the record or playback mode. Press it again to release the pause mode and restart the tape.

### 9 TAPE SELECT switches (deck B)

When recording or playing back on deck B, select the correct setting according to the type of tape used.

### 10 INPUT LEVEL control

Adjust the recording level with this control.

### 11 SPEED switch

Used to switch the tape speed when dubbing.

(▲) HIGH: For double-speed dubbing.

(■) NORM: For normal-speed dubbing.

Moreover, this is required when recording from the LINE IN input. Set to this position except during double-speed dubbing.

### 12 DUBBING switch

Set to ON (▲) when dubbing from deck A to deck B.

### 13 NR SYSTEM switch

### 14 SYNCHRO PLAY button

Press this button when performing synchro dubbing. Do not press this button other than for this purpose. (See page 21.)

### 15 Cassette operation buttons (deck A)

#### ▶ (play):

Press to play the tape.

#### ◀◀ (rewind):

Press to rewind the tape.

#### ▶▶ (fast forward):

Press to fast forward the tape.

#### ■/▲ (stop/eject):

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder. (The tape automatically stops when it reaches the end.)

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Fig. 4-1

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# 5 Location of Main Parts

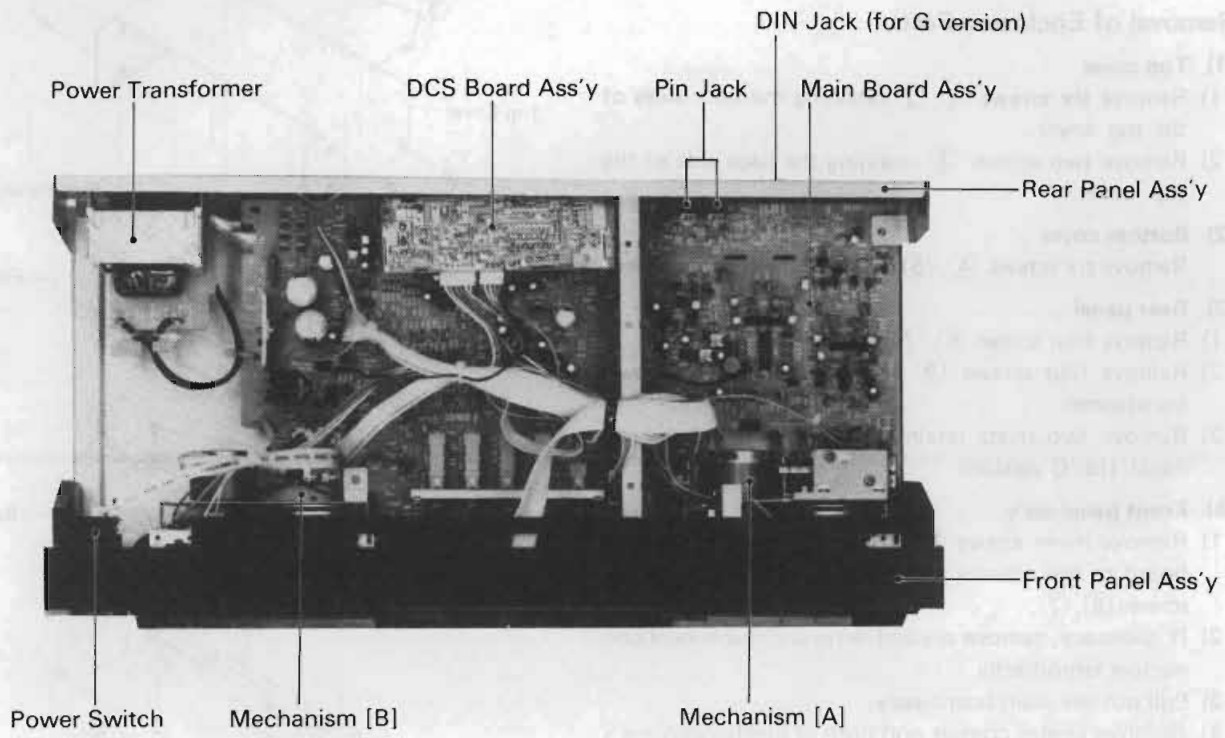


Fig. 5-1

## 6 Removal of Main Parts

### 1. Removal of Enclosure Parts

#### (1) Top cover

- 1) Remove six screws ①, ② retaining the both sides of the top cover.
- 2) Remove two screws ③ retaining the back side of the top cover.

#### (2) Bottom cover

- Remove six screws ④, ⑤ retaining the bottom cover.

#### (3) Rear panel

- 1) Remove four screws ⑥, ⑦ and ⑧.
- 2) Remove four screws ⑨ and ⑩ retaining the power transformer.
- 3) Remove two rivets retaining the DIN jack to the rear panel. (for G version)

#### (4) Front panel ass'y

- 1) Remove three screws ⑪, ⑫ and ⑬ retaining the main board to the chassis and bracket, and remove three screws ⑥, ⑦.
- 2) If necessary, remove dressed wires and disconnect connectors temporarily.
- 3) Pull out the main board ass'y.
- 4) Remove center chassis and both of mechanism ass'y.

#### (5) Power switch ass'y

- 1) Remove two screws ⑭, ⑮ retaining the power bracket from the front panel ass'y.
- 2) Remove one screws ⑯ the power switch from the power bracket.

#### (6) Mechanism ass'y

- 1) Deck [B]
  - Remove four screws ⑰ retaining the mechanism [B] and one screw ⑱ retaining the gear damp ass'y.
  - Remove the cassette holder from the mechanism [B].
- 2) Deck [A]
  - Remove four screws ⑰ retaining the mechanism [B] and one screw ⑱ retaining the gear damp ass'y.
  - Remove the cassette holder from the mechanism [A].

**Note:** When reassembling the cassette holder, set the holder spring in the left arm of the holder prior to reassembly.

#### (7) Tape counter

- Remove the counter belt and one screw ⑲ retaining the tape counter from the front panel.

#### (8) LED indicator board ass'y

- Remove two pawls retaining the LED indicator board from the front panel.

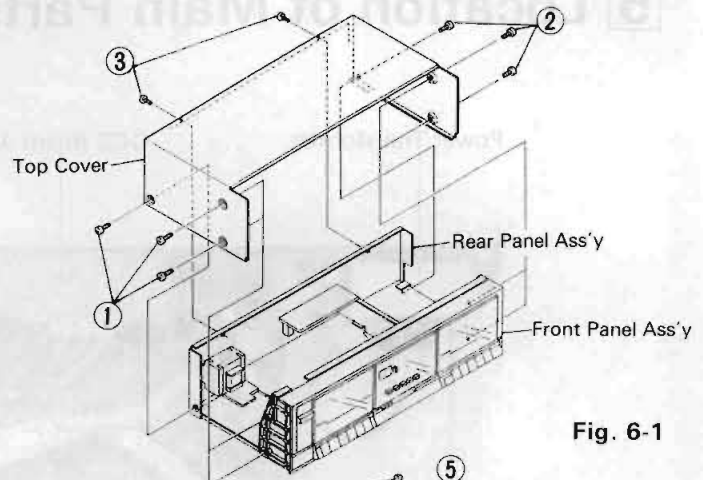


Fig. 6-1

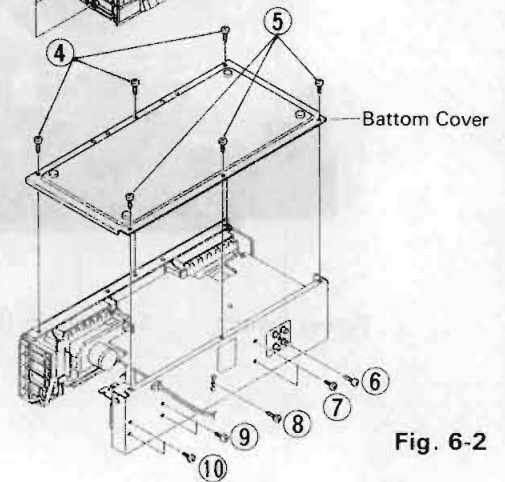


Fig. 6-2

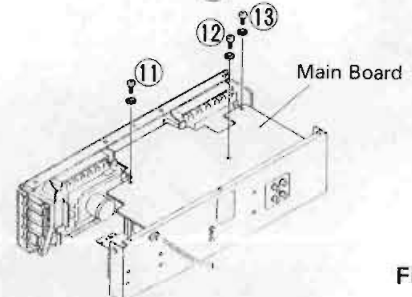


Fig. 6-3

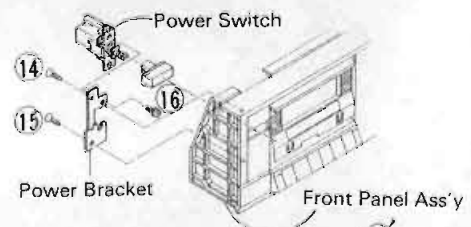


Fig. 6-4

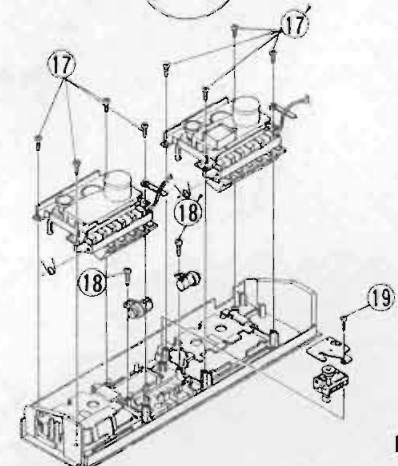
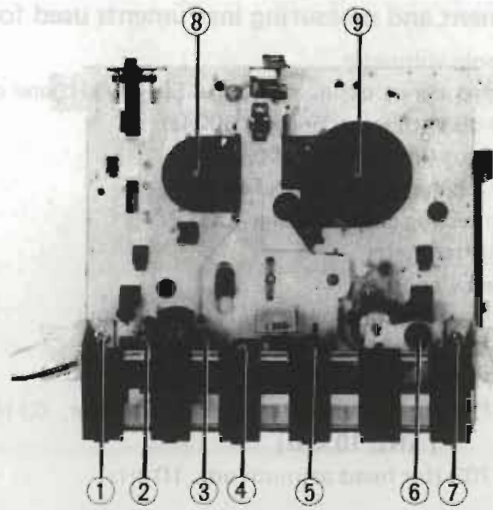


Fig. 6-5

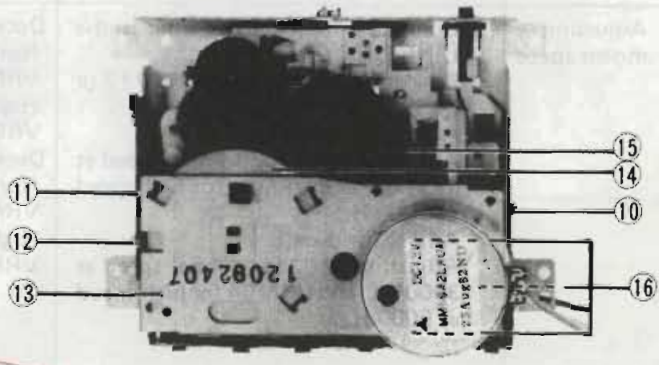
### ■ Mechanism Section

#### 2. Removal of Main Parts for Mechanism

- (1) **Rec/PB head (Deck B), PB head (Deck A)**
  - 1) Remove two screws ①, ⑦ retaining the button ass'y.
  - 2) Remove one screw ⑤ retaining the head panel.
  - 3) Remove one screw ④ for adjustment retaining the head panel.
- (2) **Erase head (Deck B), Dummy head (Deck A)**
  - 1) Remove one screw ③ retaining the head panel.
  - 2) Remove one screw ② for adjustment.
- (3) **Pinch roller arm ass'y**  
Remove a stopper ⑥ holding the pinch roller arm ass'y and pull it off from the shaft.
- (4) **Supply reel disk ass'y**  
Pull out the E-ring ⑧ and remove the supply reel disk ass'y from the shaft.
- (5) **Take-up reel disk ass'y**  
Pull out the E-ring ⑨ and remove the rake-up reel disk ass'y from the shaft.
- (6) **Motor**
  - 1) Remove three screws ⑩, ⑪ and ⑫ fastening the FM bracket.
  - Note:** When removing the FM bracket ⑬, remove it with the main belt ⑭ and RF belt. (⑮)
  - 2) Remove three screws ⑯ fastening the motor.
  - 3) Pull out the motor pulley from the motor shaft.
  - Note:** Be careful not to stain the main belt and RF belt.



<Front Section>



<Rear Section>

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<Deck B Mechanism>

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Fig. 6-6

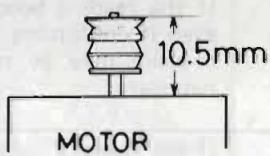
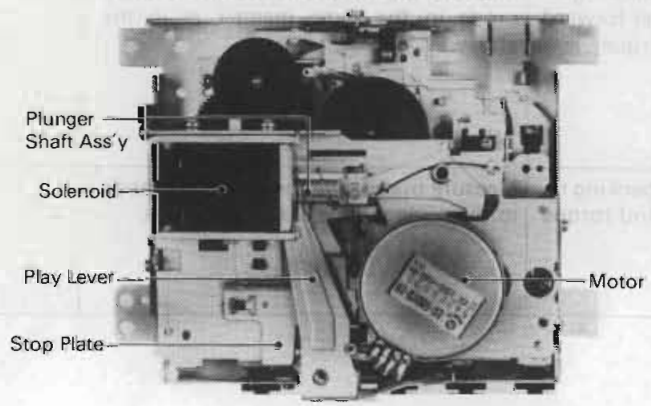


Fig. 6-7

- 4) **Flywheel ass'y**  
Pull out the flywheel ass'y from the capstan metal.



<Deck A Mechanism Rear Section>

Fig. 6-8

# 7 Main Adjustments

## 1. Equipment and measuring instruments used for adjustments

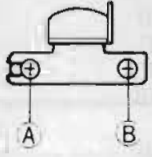
- 1) Electronic voltmeter
- 2) Audio frequency oscillator (range: 50–20 kHz and output 0 dB with impedance of 600  $\Omega$ )
- 3) Attenuator (impedance: 600  $\Omega$ )
- 4) Distortion meter (bandpass filter)
- 5) Torque testing cassette gauge, CGT-N
- 6) Wow flutter meter
- 7) Frequency counter
- 8) Reference tape for playback (JVC Test Tape)
  - VTT712 (for tape speed, wow flutter adj.)
  - VTT724 (for reference level, 1 kHz)
  - VTT739 (for playback frequency response, 63 Hz, 1 kHz, 10 kHz)
  - TMT703 (for head azimuth adj. 10 kHz)
- 9) Standard tapes for REC/PB
  - Maxell UD : Normal (SF) tape – TS9
  - TDK SA : Chroma (SA) tape – TS6
  - JVC ME : Metal tape – TS7
- 10) Gauge and tool
  - a) Torque gauge or CTG-N
  - b) C-120 tape

## 2. Mechanism adjustment procedure

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	<ol style="list-style-type: none"> <li>1. Connect a frequency counter to the LINE OUT terminals.</li> <li>2. Play back the test tape (VTT712 or 655A).</li> <li>3. Adjust for deck <b>[A]</b>: Adjust VRM01 for normal speed at 3000 Hz, and VRM02 for high speed at 6000 Hz. Adjust for deck <b>[B]</b>: Adjust VRM03 for normal speed at 3000 Hz, and VRM04 for high speed at 6000 Hz.</li> </ol>	Deck <b>[A]</b> : Normal; VRM01 High; VRM02 Deck <b>[B]</b> : Normal; VRM03 High; VRM04	Normal speed: Deck <b>[A]</b> : 3000 Hz $\pm$ 15 Hz Deck <b>[B]</b> : 3000 Hz $\pm$ 15 Hz High speed: Deck <b>[A]</b> : 6000 Hz $\pm$ 20 Hz Deck <b>[B]</b> : 6000 Hz $\pm$ 20 Hz	For adjusting high speed, HI-SPEED test point should be grounded. Adjust high speed after perform normal speed.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals and Play back the test tape (VTT712). Check to see if the reading of the meter is within 0.24% (CCIR WTD)		0.24% (CCIR WTD)	If the reading becomes moving value even if confirming to the standard, a re-claim may be raised. Repairs are necessary.
Checking playback torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		35–75 gr-cm	If the standard torque is not obtained, replace the take-up disk assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 70–200 gr-cm	If the standard torque is not obtained, perform the following. <ol style="list-style-type: none"> <li>1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disk circumference, the flywheel circumference, etc.</li> <li>2. Replace the belt and idler.</li> </ol>
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 70–200 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disk circumference, etc.



Item	Adjustment	Adjusting point	Standard value	Remarks
Checking auto-stop operation	Play back the tape. In playback mode, check that the tape run stops within 3 sec at the end of the tape. In fastforward or rewind mode, check that the tape stops within 5 sec at the tape end.		Play mode: within 3 sec FF/REW mode: within 5 sec	
Adjusting REC/PB head azimuth	<ol style="list-style-type: none"> <li>1. Connect an electronic voltmeter to the LINE OUT terminals.</li> <li>2. Play back the VTT703 test tape.</li> <li>3. Adjust the head angle with the screw A until the reading of the electronic voltmeter becomes maximum for both channels.</li> <li>4. After adjusting, set the screw with screw bond.</li> </ol>	Screw A (left side) each Deck <u>A</u> Deck <u>B</u>	Maximum	<p>If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one.</p> <p>After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary.</p> <p>If the output difference between the left and right channels exceeds 3-4 dB, the head is defective. Replace it with a new one.</p>



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3. Electrical adjustments location

- Main Amp P. W. Board (parts assembly side view)

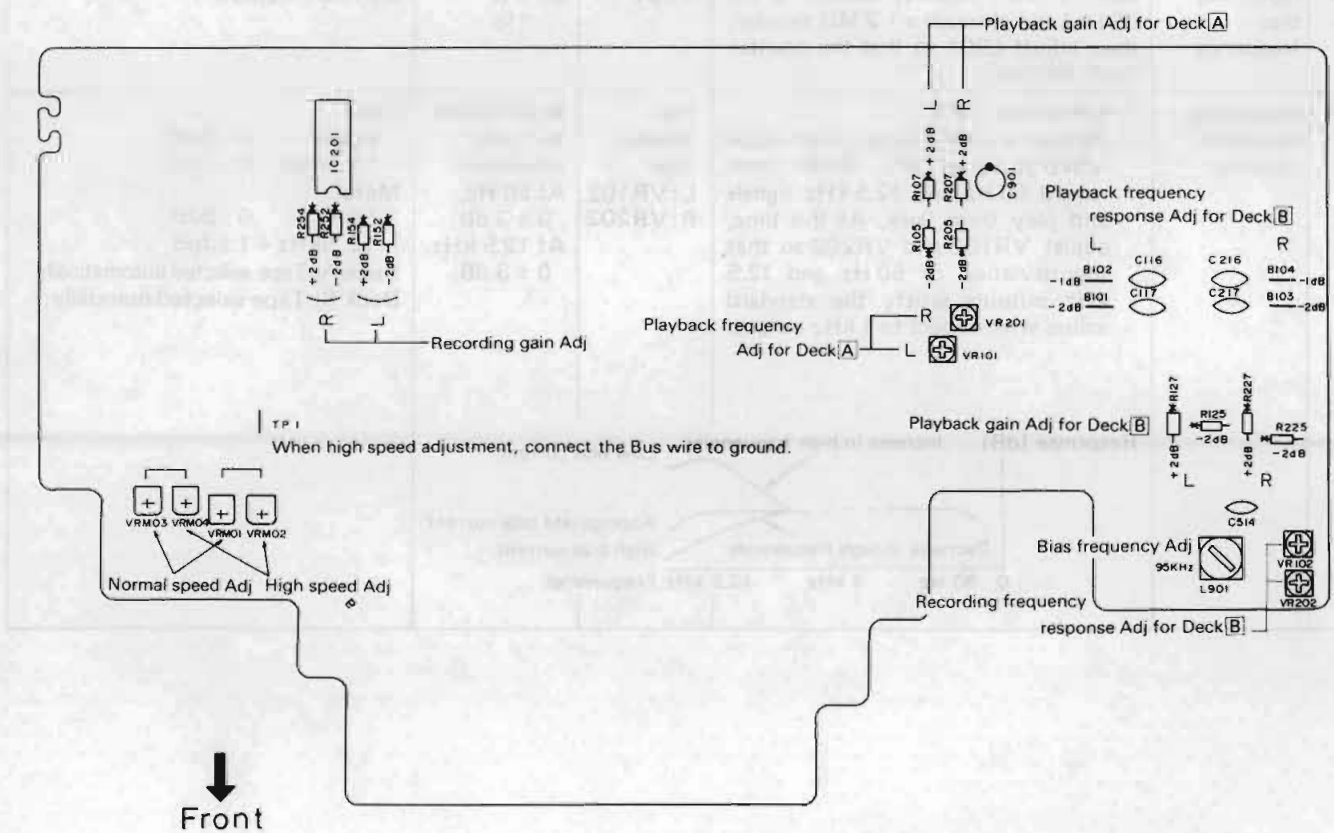


Fig. 7-1

#### 4. Electrical circuit adjustment procedure

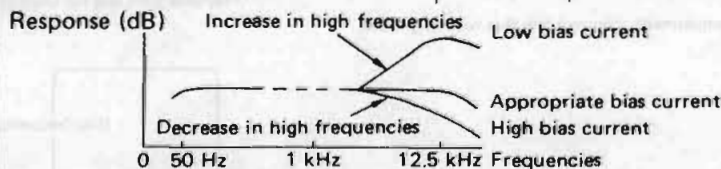
Perform the tape transport checks and head azimuth adjustment before following checks and adjustments.

Adjustment should be performed in the order of alignment steps.

In the steps marked with an asterisk (\*), adjustment should be performed after replacing the heads.

Perform this adjustment with the NR switch set to OFF.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*2	Confirming playback gain	Play back VTT724, then confirm that the level at LINE OUT is [A] $-8\text{dB} \pm 2\text{dB}$ , [B] $-8\text{dB} \pm 2\text{dB}$ .	Deck A L:R105,R107 R:R205,R207 Deck B L:R125,R127 R:R225,R227	[A] $-8 \pm 2\text{dB}$ [B] $-8 \pm 2\text{dB}$	When the head is replaced, adjust playback gain level. Deck A L:R107 cut by $+1.5\text{dB}$ R105 cut by $-1.5\text{dB}$ R:R207 cut by $+1.5\text{dB}$ R205 cut by $-1.5\text{dB}$ Deck B L:R127 cut by $+1.5\text{dB}$ R125 cut by $-1.5\text{dB}$ R:R227 cut by $+1.5\text{dB}$ R225 cut by $-1.5\text{dB}$
*3	Playback frequency response	Deck A: Play back VTT739, then confirm that the level of 1 kHz and 10 kHz signals is $0.5 \pm 0.5\text{dB}$ . Deck B: disconnect B101, B102(L-ch) and B103, B104 (R-ch) so that the outputs of 1 kHz and 10 kHz signals are flat.	Deck A L:VR101 R:VR201 Deck B L:B101,B102 L:B103,B104	Deck A: $0.5 \pm 0.5\text{dB}$ Deck B: $0 \pm 1\text{dB}$	B102 cut by $-1\text{dB}$ B101 cut by $-2\text{dB}$ B104 cut by $-1\text{dB}$ B103 cut by $-2\text{dB}$ Deck [A]: Tape selected automatically. Deck [B]: Tape selected manually.
*4	Adjusting bias frequency	Connect the frequency counter to the C514 Lead through a $1.2\text{M}\Omega$ resistor, then adjust L901 so that the counter reads 95 kHz.	L901	95 kHz $\pm 1\%$	METAL Position
*5	Recording frequency response	1) NR switch: OFF 2) Record a 1 kHz signal at an input reference level of $-20\text{dB}$ , then record 50 Hz and 12.5 kHz signals and play them back. At this time, adjust VR102 and VR202 so that the deviation of 50 Hz and 12.5 kHz outputs satisfy the standard values with respect to 1 kHz output.	For Normal tape: L: VR102 R: VR202	With respect to 1 kHz reference: At 50 Hz, $0 \pm 3\text{dB}$ ; At 12.5 kHz, $0 \pm 3\text{dB}$	CrO <sub>2</sub> 50Hz $0 \pm 3\text{dB}$ 12.5kHz $0 \pm 3\text{dB}$ Metal 50Hz $0 \pm 3\text{dB}$ 12.5kHz $+1 \pm 3\text{dB}$ Deck [A]: Tape selected automatically. Deck [B]: Tape selected manually.



## 8 Block Diagrams

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*6	Recording gain	1) Apply a 1 kHz signal to the LINE IN terminals, record a 1 kHz signal at 0 dB input for both L and R channels on a normal tape. 2) Play back the recorded part, and adjust the recording level controls so that LINE OUT terminal level becomes -8 dB with peak level indicator reading 0 dB. Then adjust VR901 (Input Level control) so that LINE OUT terminal level becomes -8 dBs.	For Normal tape: L: R152 R154  R: R252 R254	-8 ± 2.0 dB  (CrO <sub>2</sub> -8 ± 2.5 dB Metal -8 ± 2.5 dB)	Perform the adjustment using a normal tape. Level difference between recording and playback for CrO <sub>2</sub> and metal tapes should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.  L: R154 cut by +2 dB R152 cut by -2 dB  R: R254 cut by +2 dB R252 cut by -2 dB
*7	Checking record/playback distortion	1) Record a 1 kHz, -8 dB signal to LINE IN terminals and perform recording with the peak level indicator reading 0 dB. 2) Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		Normal tape: Less than 2% CrO <sub>2</sub> tape: Less than 2% Metal tape: Less than 2% (THD)	Be sure to perform this checking following bias current and recording level checking.
8	Checking signal to noise ratio in recording/playback	1) Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2) Play back the recorded part. Measure the 0 dB 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, CrO <sub>2</sub> & Metal tapes: More than 42 dB	Apply an input level to LINE IN terminals with the recording level controls set to maximum so that the peak level indicator reads 0 dB.
9	Checking erasing coefficient	1) Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the peak level indicator reads 0 dB. 2) Perform recording with the signal enhanced by 20 dB. 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.		More than 65 dB (at 1 kHz)  More than 55 dB (at 400 Hz)	For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter.  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">                     Input (1 kHz 0 VU +20 dB)                 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">                     Tape deck (recording, erasing)                 </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">                     (1 kHz)                 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">                     Band pass Filter                 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">                     Electronic voltmeter                 </div> </div>

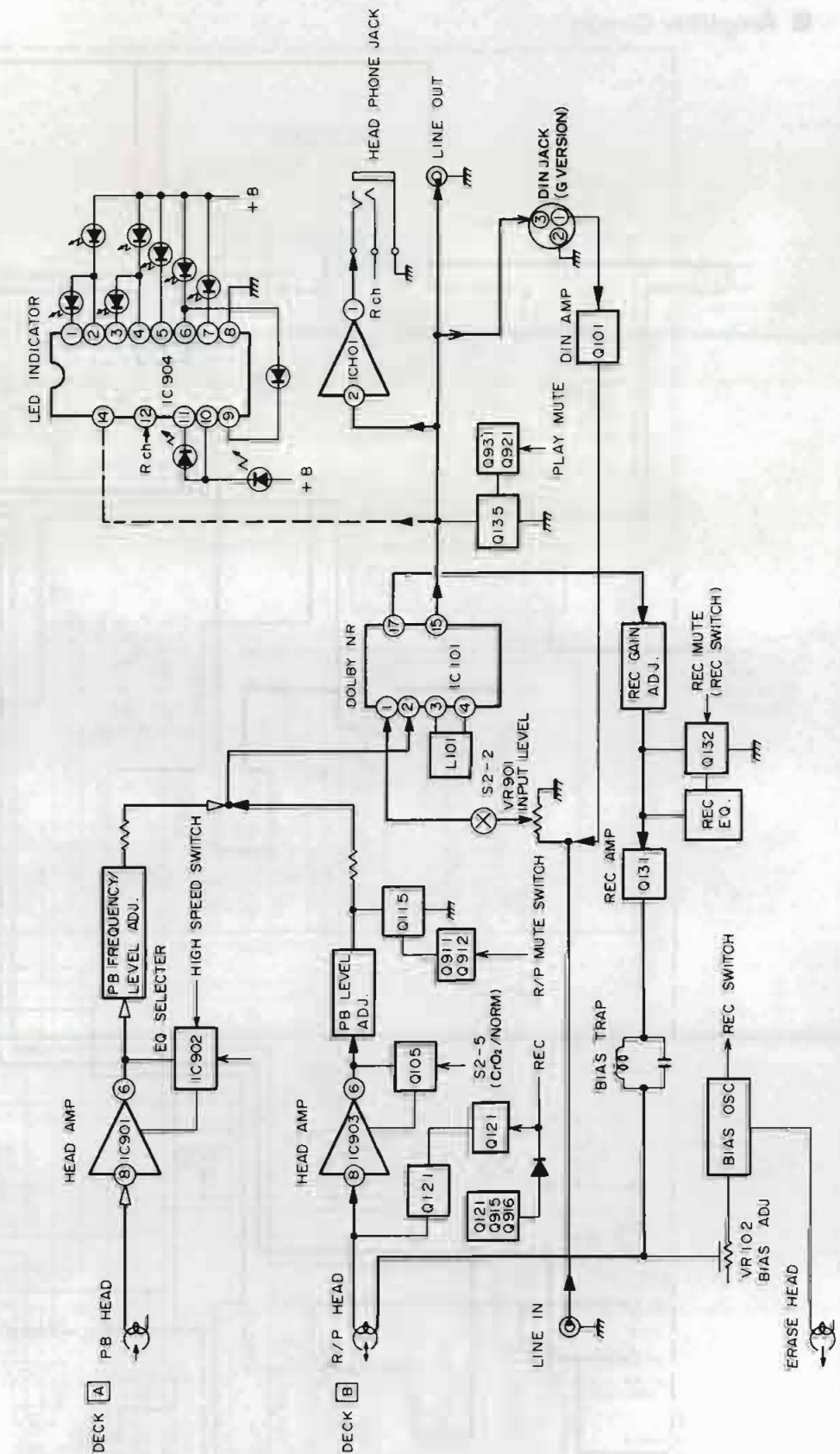


Fig. 8-1

# 9 Standard Schematic Diagrams

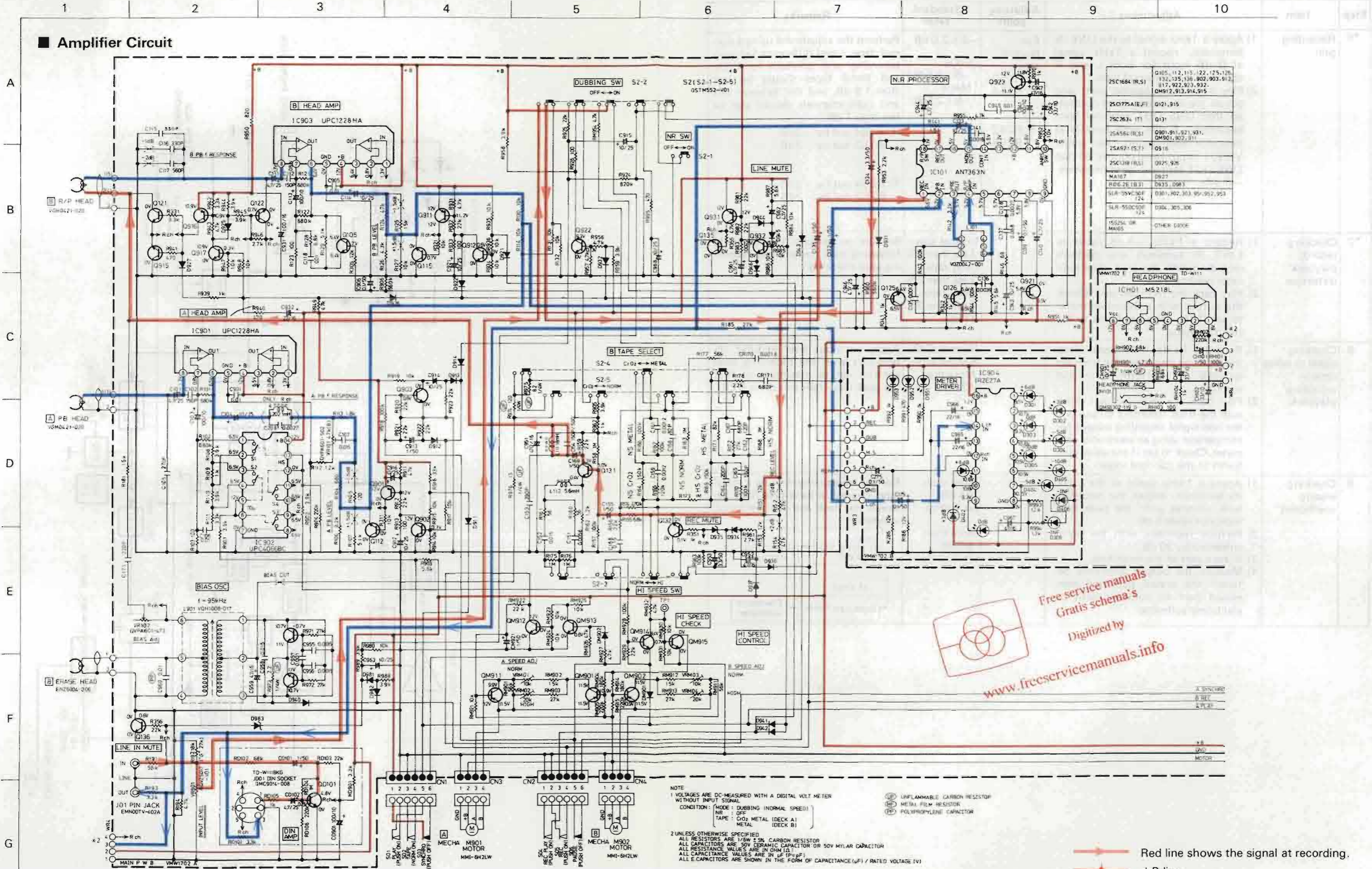
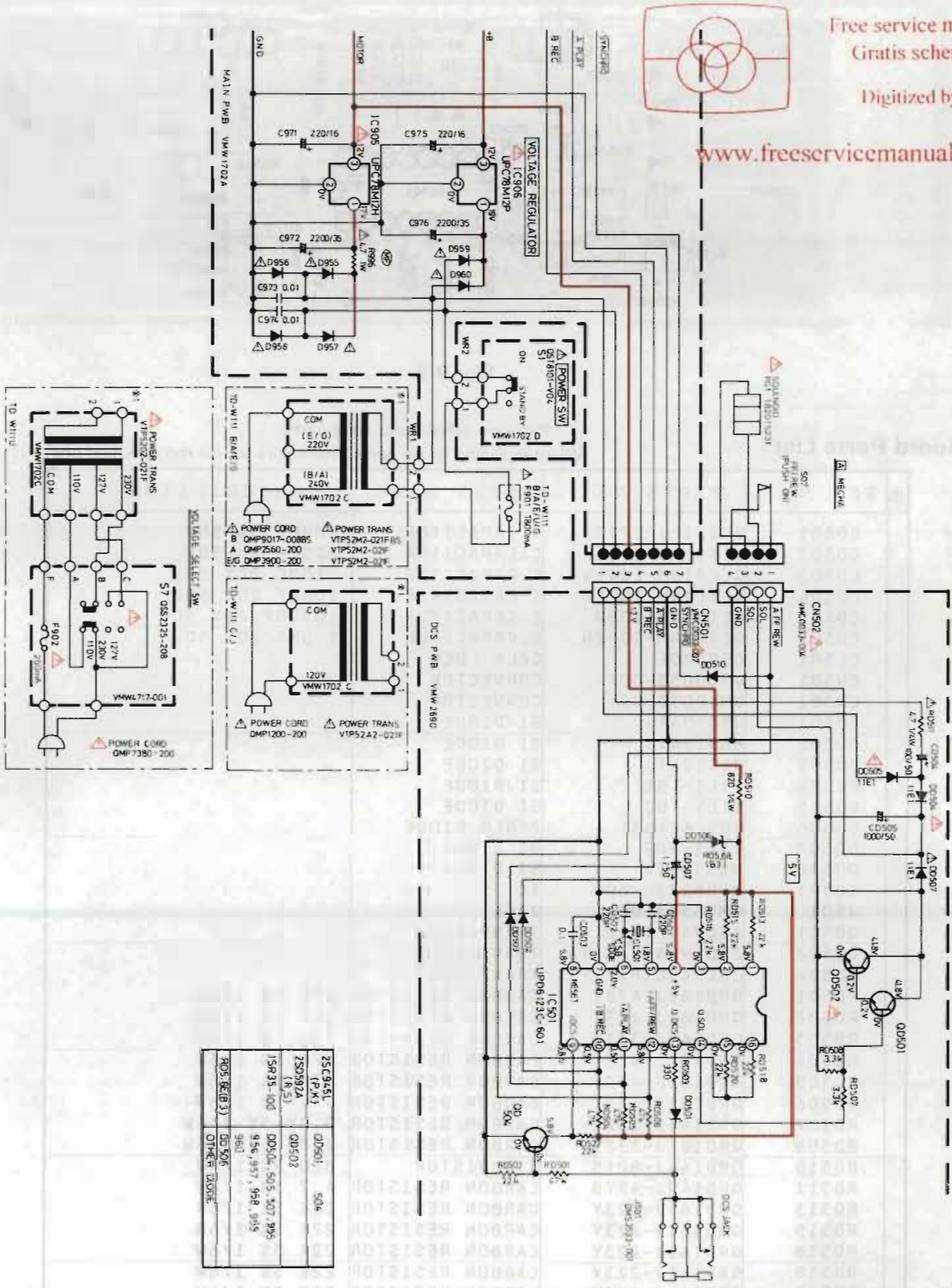


Fig. 9-1

Free service manuals  
Gratis schema's  
Digitized by  
www.trecservicemanuals.info

DCS and Power Supply Circuit

A  
B  
C  
D  
E  
F  
G



Free service manuals  
Gratis schema's  
Digitized by

www.freeservicemanuals.info

25 (9A8L)	0D501	504
250397A	0D502	
15R35-10D	0D504, 505, 507, 995	956, 997, 998, 999
	961	
905 (6E13)	0D506	
	0D507	1000E

+ B line

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

Fig. 9-2

# 10 Location of P.C. Board Parts

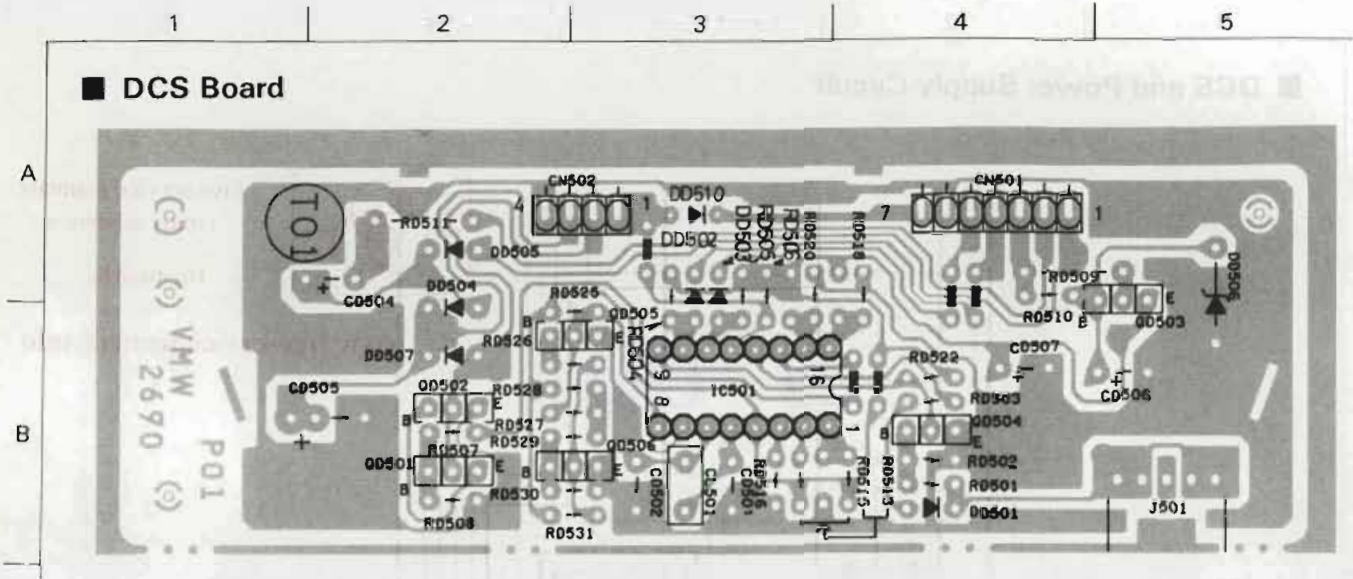


Fig. 9-3

## DCS Board Parts List

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

△	REF. NO	PARTS NO.	PARTS NAME	DESCRIPTION
	CD501	QCS31HJ-221Z	C.CAPACITOR	220PF 5% 50V
	CD502	QCS31HJ-221Z	C.CAPACITOR	220PF 5% 50V
	CD503	QCC31EM-104ZV	C.CAPACITOR	.10MF 20% 25V
	CD504	QETC1HM-107ZM	E CAPACITOR	100MF 20% 50V
	CD505	QETB1HM-108N	E CAPACITOR	1000MF 20% 50V
	CD507	QETC1HM-105ZM	E.CAPACITOR	1.0MF 20% 50V
	CL501	CSB500E	CELA LOCK	
	CN501	VMC0033-007	CONNECTOR	
	CN502	VMC0033-004	CONNECTOR	
	DD501	HSS104TJ	SI DIODE	
	DD502	HSS104TJ	SI DIODE	
	DD503	HSS104TJ	SI DIODE	
	DD504	11E1-TB2	SI DIODE	
	DD505	11E1-TB2	SI DIODE	
	DD506	RD5.6E(B3)	ZENER DIODE	
	DD507	11E1-TB2	SI DIODE	
	DD510	HSS104TJ	SI DIODE	
	IC501	UPD6123C-601	IC	
	J501	QMS3533-001	JACK	
	QD501	2SC945L(P,K)-T	TRANSISTOR	
	QD502	2SD592A(R,S)TA	TRANSISTOR	
	QD504	2SC945L(P,K)-T	TRANSISTOR	
	RD501	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
	RD502	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	RD503	QRD161J-331Y	CARBON RESISTOR	330 5% 1/6W
	RD504	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
	RD505	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
	RD506	QRD161J-473Y	CARBON RESISTOR	47K 5% 1/6W
	RD507	QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W
	RD508	QRD161J-332Y	CARBON RESISTOR	3.3K 5% 1/6W
	RD510	QRD144J-821S	C.RESISTOR	820 5% 1/4W
	RD511	QRD149J-4R7S	CARBON RESISTOR	4.7 5% 1/4W
	RD513	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	RD515	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	RD516	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	RD518	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	RD520	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W
	RD522	QRD161J-223Y	CARBON RESISTOR	22K 5% 1/6W

1 2 3 4 5 6 7 8 9 10

■ Main Board

A  
B  
C  
D  
E  
F  
G

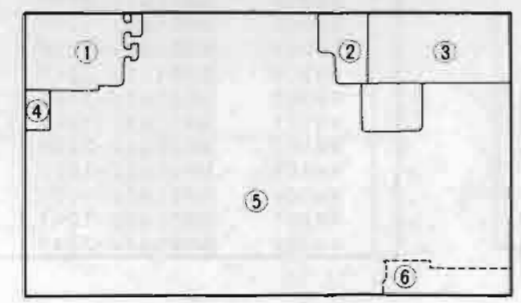
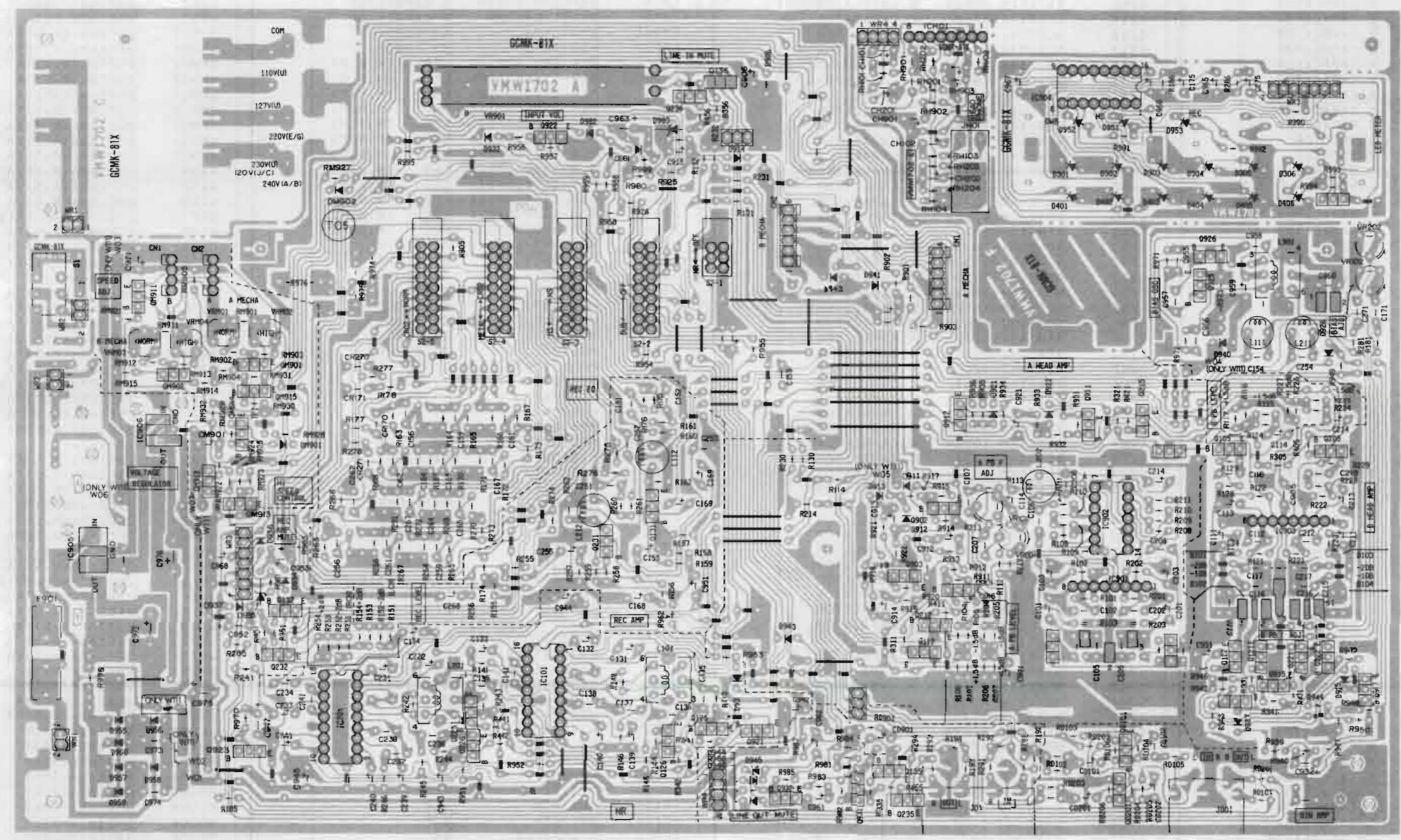


Fig. 10-2

- 1. Power Terminal Board
- 2. H-Phone Jack Board
- 3. LED Board
- 4. Power Switch Board
- 5. Main Board
- 6. DIN Amp (G)

Fig. 10-1







# 11 Wiring Connections

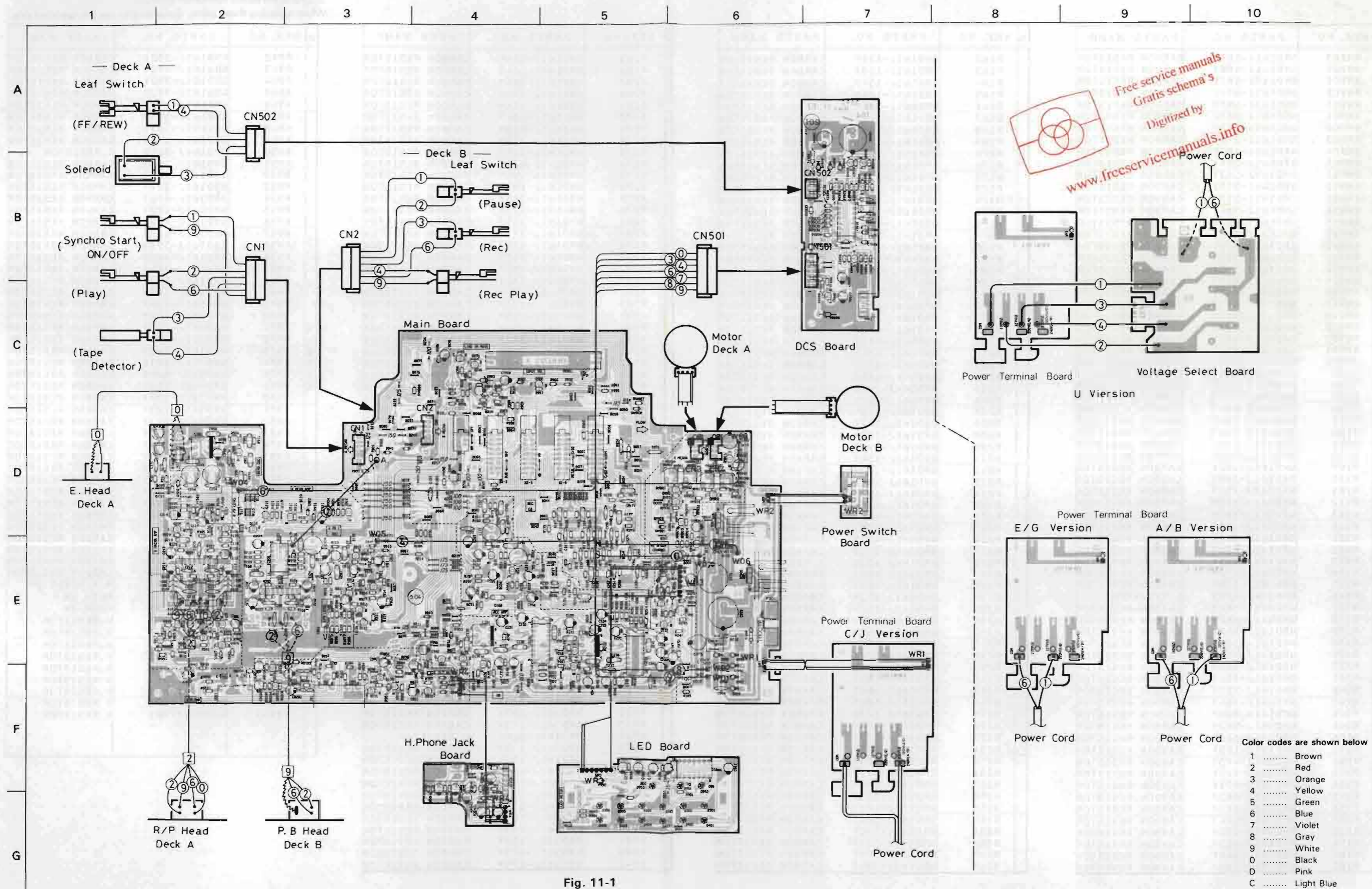
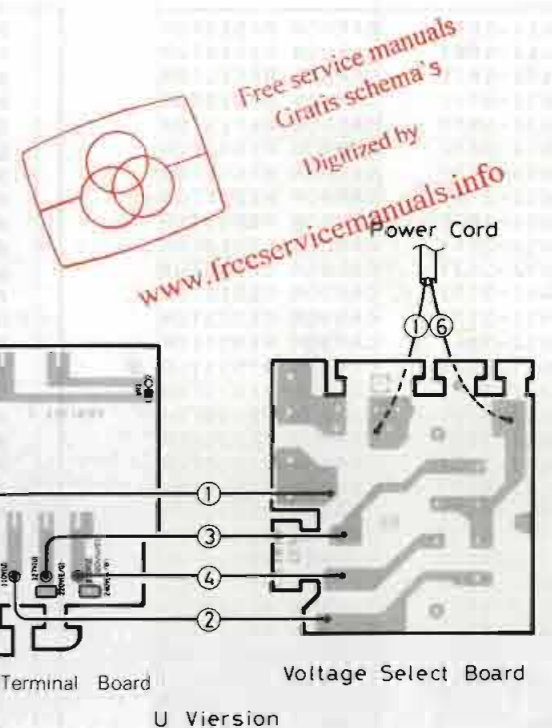


Fig. 11-1



# 12 Exploded View of Mechanism Assembly

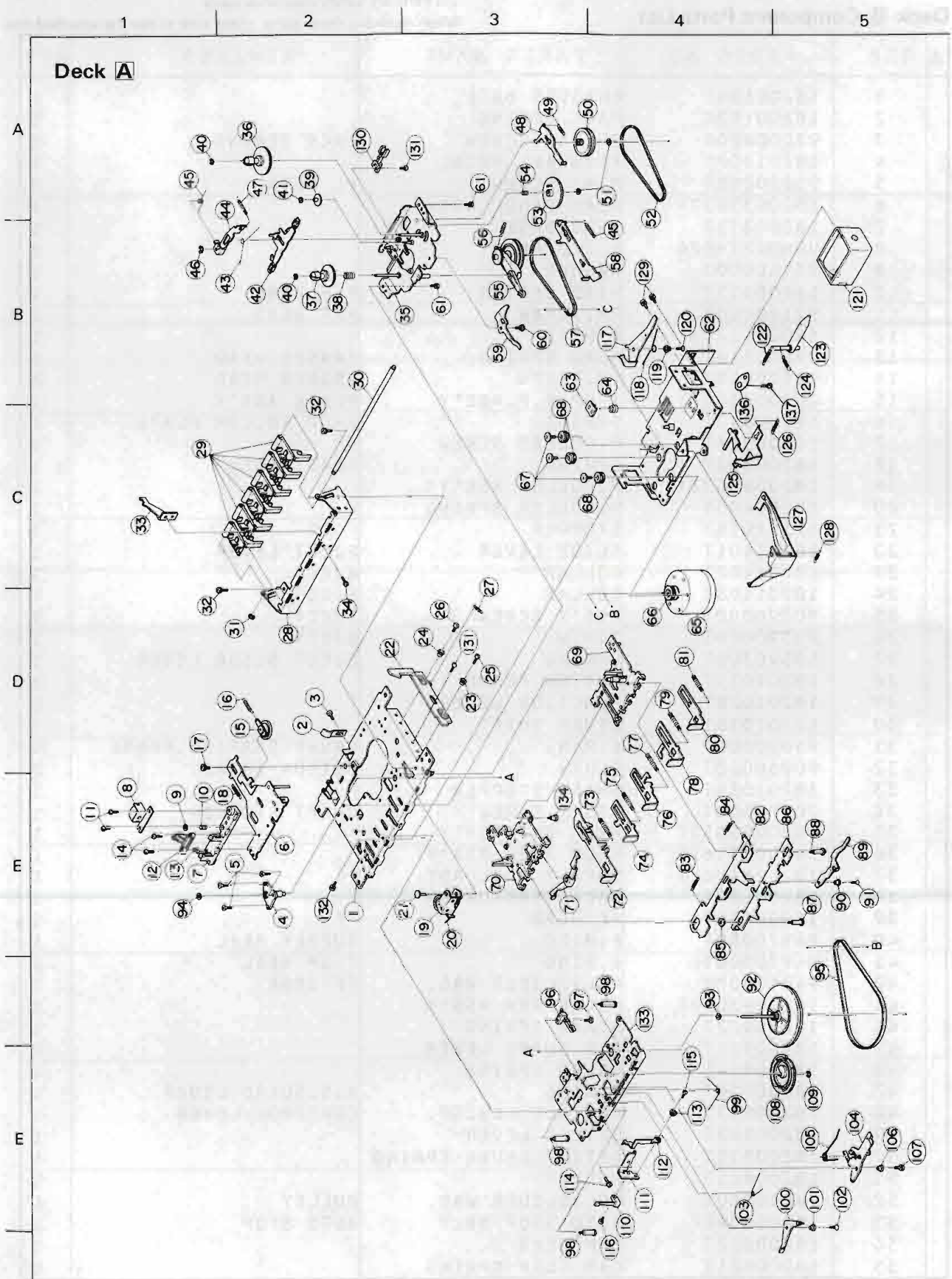


Fig. 12-1

## Deck A Component Parts List

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	18200101T	CHASSIS BASE		1
2	18200102T	PACK SPRING		1
3	92000000T	TH.TAP.SCREW	PACK SPRING	1
4	18201207T	FLYWHEEL METAL		1
5	95620000T	MINI SCREW	FL METAL	3
6	182003501ZT	HEAD PANEL ASSY		1
7	18200311T	HEAD BASE		1
8	VGH0421-020	R / P HEAD		1
9	93160000T	WASHER		1
10	14400315T	HEAD SPRING	R/P HEAD	1
11	92120000T	PM.SCREW	R/P HEAD	2
12	VKS4710-001	DUMMY HEAD		1
13	09400312T	HEAD SPRING	ERASER HEAD	1
14	92120000T	PM.SCREW	ERASER HEAD	2
15	182003301ZT	T-UP R.P.ASS'Y	PLATE ASS'Y	1
16	18200312T	SPRING	T-UP ROLLER PLATE	1
17	18200316T	P.COLLAR SCREW		1
18	18200302T	SPRING	HEAD PANEL	1
19	182004303ZT	P.ROLLER ASS'Y		1
20	18200403T	P.ROLLER SPRING		1
21	17152015T	STOPPER		1
22	18201401T	SLIDE LEVER		1
23	18201402T	COLLAR		1
24	18201403T	COLLAR		1
25	90790000T	ASS'Y SCREW		1
26	90390000T	SCREW		1
27	15590306T	SPRING	EJECT SLIDE LEVER	1
28	18201015T	BUTTON FRAME		1
29	18201028T	FUNCTION LEVER		6
30	18201016T	LEVER SHAFT		1
31	95000000T	E.RING	LEVER SHAFT	1
32	90960000T	SCREW		2
33	18201035T	SHAFT STOPPER		1
34	90770000T	ASS'Y SCREW		1
35	182005508ZT	REEL BKT.ASS'Y	REEL	1
36	182006316ZT	T-UP REEL ASS'Y		1
37	182006302ZT	SUPPLY REEL ASY		1
38	18200622T	BACK TENSION SP		1
39	18000610T	FF GEAR	FF	1
40	94970000T	E.RING	T-UP REEL	1
41	94970000T	E.RING	SUPPLY REEL ASS'Y	1
42	94210000T	POLYSLIDER WAS.	FF GEAR	1
43	182009301ZT	BRAKE ARM ASS'Y		1
44	18200902T	BRAKE SPRING		1
45	18200905T	A.S.GUARD LEVER		1
46	18200914T	LEVER SPRING		1
47	95000000T	E.RING		1
48	18200913T	CONTROL LEV.SP.		1
49	18200803T	DETECT LEVER		1
49	18200810T	DETECT LEVER SPRING		1
50	18200801T	PULLEY		1
51	94210000T	POLYSLIDER WAS.	PULLEY	1
51	94210000T	POLYSLIDER WAS.	CAM GEAR	1
52	18200809CT	AUTO STOP BELT	AUTO STOP	1
53	18200802T	CAM GEAR		1

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

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
54	18200821T	CAM GEAR SPRING		1
55	182007301ZT	RF.CLUTCH ASS'Y		1
56	18200706T	RF.CLCH.ARM SP.	RF.CLUTCH ARM	1
57	17100603T	RF.BELT		1
58	18200903AT	R.F.SLIDE LEVER		1
59	18200805T	AUTO STOP LEVER		1
60	18200818T	COLLAR SCREW		1
61	90770000T	ASS'Y SCREW	RELL BRACKET	2
62	18201357T	FM.BRACKET		1
63	18201302T	FL.THRUST PLATE		1
64	18201310T	THRUST SPRING		1
△ 65	MMI-6H2LWK	MOTOR		1
66	18201344T	MOTOR PULLEY		1
67	18201305T	COLLAR SCREW	MOTOR	3
68	18201306T	RUBBER CUSHION	MOTOR	3
69	18201001CT	BUTTON BASE(L)		1
70	18201002CT	BUTTON BASE(R)		1
71	18200202T	REC.STOPPER		1
72	18201018T	REC.B.LEVER	REC.BUTTON	1
73	18201026T	B.LEVER SPRING		1
74	18201080T	PLAY BUTTON LEV	PLAY BUTTON	1
75	18201026T	B.LEVER SPRING		1
76	18201020T	REW.B.LEVER	REW BUTTON	1
77	18201026T	B.LEVER SPRING		1
78	18201021T	FF.B.LEVER	FF BUTTON	1
79	18000903T	B.LEVER SPRING		1
80	18201022T	STOP B.LEVER	STOP BUTTON	1
81	18201027T	B.LEVER SPRING		1
82	18201079T	BUTTON CAM		1
83	18201052T	SPRING	BUTTON CAM	1
84	18201031T	SPRING	SWITCH CAM	1
85	18201068T	SPACER		1
86	18201075T	SWITCH CAM		1
87	18201030T	COLLAR SCREW		1
88	18201029BT	COLLAR SCREW		1
89	18201011T	KICK LEVER		1
90	18200806T	COLLAR		1
91	95660000T	MINI SCREW		1
92	182012301ZT	FLYWHEEL ASS'Y		1
93	97880000T	POLYSLIDER WAS.	THRUST	1
94	93720000T	NYLON WASHER	OIL CUT	1
95	18201309T	MAIN BELT		1
96	64010170T	LEAF SWITCH	MSW-1412NBK	1
97	90020000T	SCREW		1
98	18201137T	COLLAR SCREW		3
99	18201131T	SPRING	MAIN GEAR	1
100	182011510ZT	ARM ASS'Y		1
101	18200812T	COLLAR	M.TRIGGER ARM	1
102	95670000T	MINI SCREW		1
103	18201126T	SPRING	M.TRIGGER ARM	1
104	182011505ZT	LIFT ARM ASS'Y		1
105	18201129T	SPRING	LIFT ARM	1
106	18201130T	COLLAR	LIFT ARM	1
107	90980000T	ASS'Y SCREW		1

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

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
108	18201103T	MAIN GEAR		1
109	95020000T	E.RING		1
110	64050117T	LEAF SWITCH		1
111	18201177T	SWITCH BRACKET		1
112	18201178T	SWITCH ARM		1
113	18200812T	COLLAR		1
114	90770000T	ASS'Y SCREW		1
115	95660000T	MINI SCREW		1
116	91160000T	SCREW		1
117	18200835T	P DETECT LEVER		1
118	18200844T	TENSION SPRING		1
119	18200836T	COLLAR		1
120	95520000T	MINI SCREW		1
121	18201523T	SOLENOID		1
122	18200846T	SPRING (FOR LUG)		1
123	182015308T	PLUNGER SFT.ASY		1
124	18200847T	SPRING		1
125	18200834T	STOP PLATE		1
126	18200843T	TENSION SPRING		1
127	18200837T	PLAY LEVER		1
128	18200842T	TENSION SPRING		1
129	91050000T	TENSION SPRING		2
130	64010138T	LEAF SWITCH		1
131	90020000T	SCREW		1
132	90770000T	ASS'Y SCREW		1
133	90020000T	SCREW	FM BRACKET	1
134	182011527ZT	CHASSIS ASS'Y		1
135	18201025T	COLLAR SCREW		1
136	94810000T	LUG		
137	91910000T	TH.TAP SCREW		

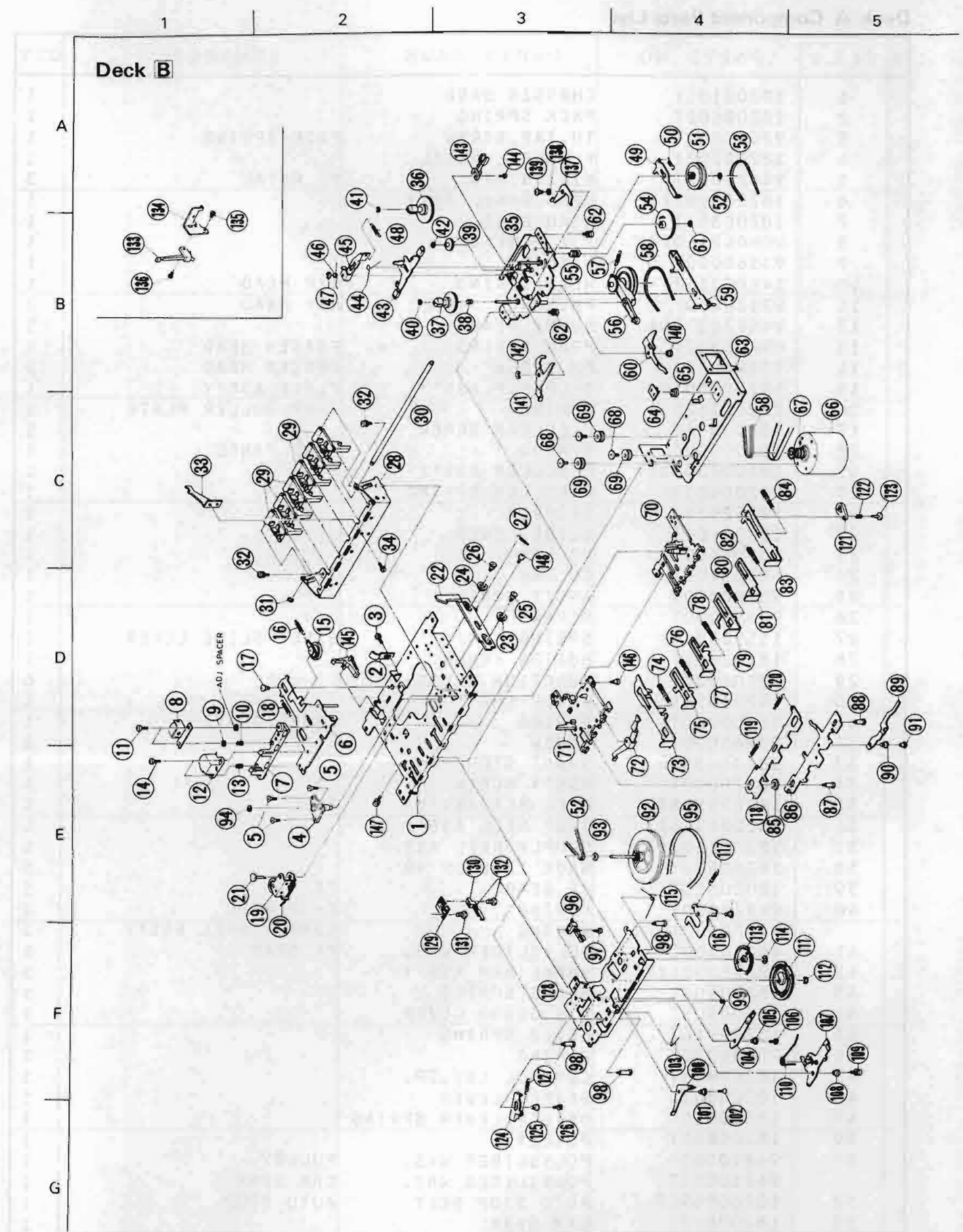


Fig. 12-2

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

Deck B Component Parts List

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	18200101T	CHASSIS BASE		1
2	18200102T	PACK SPRING		1
3	92000000T	TH.TAP.SCREW	PACK SPRING	1
4	18201207T	FLYWHEEL METAL		1
5	95620000T	MINI SCREW	FL METAL	3
6	182003501ZT	HEAD PANEL ASSY		1
7	18200311T	HEAD BASE		1
8	VGH0421-020	R / P HEAD		1
9	93160000T	WASHER		1
10	14400315T	HEAD SPRING	R/P HEAD	1
11	92120000T	PM.SCREW	R/P HEAD	2
12	62021417T	E HEAD		1
13	09400312T	HEAD SPRING	ERASER HEAD	1
14	92120000T	PM.SCREW	ERASER HEAD	2
15	182003301ZT	T-UP R.P.ASS'Y	PLATE ASS'Y	1
16	18200312T	SPRING	T-UP ROLLER PLATE	1
17	18200316T	P.COLLAR SCREW		1
18	18200302T	SPRING	HEAD PANEL	1
19	182004303ZT	P.ROLLER ASS'Y		1
20	18200403T	P.ROLLER SPRING		1
21	17152015T	STOPPER		1
22	18201401T	SLIDE LEVER	EJECT LEVER	1
23	18201402T	COLLAR	EJECT	1
24	18201403T	COLLAR	EJECT	1
25	90790000T	ASS'Y SCREW	EJECT	1
26	90390000T	SCREW	EJECT	1
27	15590306T	SPRING	EJECT SLIDE LEVER	1
28	18201015T	BUTTON FRAME		1
29	18201028T	FUNCTION LEVER		6
30	18201016T	LEVER SHAFT		1
31	95000000T	E.RING	LEVER SHAFT/B.FRAME	1
32	90960000T	SCREW	BUTTON FRAME	2
33	18201035T	SHAFT STOPPER		1
34	90770000T	ASS'Y SCREW	SHAFT STOPPER	1
35	182005505ZT	REEL BKT.ASS'Y		1
36	182006316ZT	T-UP REEL ASS'Y		1
37	182006302ZT	SUPPLY REEL ASY		1
38	18200622T	BACK TENSION SP		1
39	18000610T	FF GEAR	FF	1
40	94970000T	E.RING	SUPPLY REEL	1
41	94970000T	E.RING	T-UP REEL	1
42	94210000T	POLYSLIDER WAS.	FF GEAR	1
43	182009301ZT	BRAKE ARM ASS'Y		1
44	18200902T	BRAKE SPRING		1
45	18200905T	A.S.GUARD LEVER		1
46	18200914T	LEVER SPRING		1
47	95000000T	E.RING	A.S.GUARD LEVER	1
48	18200913T	CONTROL LEV.SP.	CONTOROL LEVER	1
49	18200803T	DETECT LEVER		1
50	18200810T	DETECT LEVER SPRING.		1
51	18200801T	PULLEY		1
52	94210000T	POLYSLIDER WAS.	PULLEY	1
53	18200809CT	AUTO STOP BELT	AUTO STOP	1
54	18200802T	CAM GEAR		1
55	18200821T	CAM GEAR SPRING		1

Exploded View of Enclosure Assembly

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

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
56	182007301ZT	RF.CLUTCH ASS'Y		1
57	18200706T	RF.CLCH.ARM SP.	RF.CLUTCH ARM	1
58	17100603T	RF.BELT		1
59	18200903AT	R.F.SLIDE LEVER		1
60	18200805T	AUTO STOP LEVER		1
61	94210000T	POLYSLIDER WAS.	CAM GEAR	1
62	90770000T	ASS'Y SCREW	RELL BRACKET	2
63	18201301T	FM BRACKET		1
64	18201302T	FL.THRUST PLATE		1
65	18201310T	THRUST SPRING		1
△ 66	MMI-6H2LWK	MOTOR		1
67	18201344T	MOTOR PULLEY		1
68	18201305T	COLLAR SCREW	MOTOR	3
69	18201306T	RUBBER CUSHION	MOTOR	3
70	18201001CT	BUTTON BASE(L)		1
71	18201002CT	BUTTON BASE(R)		1
72	18200202T	REC.STOPPER		1
73	18201018T	REC.B.LEVER	REC.BUTTON	1
74	18201026T	B.LEVER SPRING	REC.BUTTON	1
75	18201019T	PLAY B.LEVER	PLAY BUTTON	1
76	18201026T	B.LEVER SPRING	PLAY BUTTON	1
77	18201020T	REW.B.LEVER	REW BUTTON	1
78	18201026T	B.LEVER SPRING	REW.BUTTON	1
79	18201021T	FF.B.LEVER	FF BUTTON	1
80	18000903T	B.LEVER SPRING	FF BUTTON	1
81	18201022T	STOP B.LEVER	STOP BUTTON	1
82	18201027T	B.LEVER SPRING		1
83	182010501ZT	LEVER ASS'Y		1
84	18000903T	B.LEVER SPRING	PAUSE BUTTON LEVER	1
	18201031T	SPRING	SWITCH CAM	1
85	18201068T	SPACER	BUTTON/SWITCH COM	1
86	18201075T	SWITCH CAM		1
87	18201030T	COLLAR SCREW	BUTTON/SWITCH COM	1
88	18201029BT	COLLAR SCREW	SWITCH COM	1
89	18201011T	KICK LEVER	EJECT	1
90	18200806T	COLLAR	EJECT KICK LEVER	1
91	95660000T	MINI SCREW	EJECT KICK LEVER	1
92	182012301ZT	FLYWHEEL ASS'Y		1
93	97880000T	POLYSLIDER WAS.	THRUST	1
94	93720000T	NYLON WASHER	OIL CUT	1
95	18201309T	MAIN BELT		1
96	64010170T	LEAF SWITCH	MSW-1412TNBK	1
97	90020000T	SCREW	LEAF SWITCH	1
98	18201137T	COLLAR SCREW	SUB.CHASSIS ASS'Y	3
99	18201126T	SPRING	M.TRIGGER ARM	1
100	182011510ZT	ARM ASS'Y	M.TRIGGER	1
101	18200812T	COLLAR	M.TRIGGER ARM	1
102	95670000T	MINI SCREW		1
103	18201131T	SPRING	MAIN GEAR	1
104	182011503ZT	ARM ASS'Y	P.TRIGGER ARM.ASS'Y	1
105	18200806T	COLLAR	P.TRIGGER ARM.ASS'Y	1
106	95670000T	MINI SCREW	P.TRIGGER ARM.ASS'Y	1
107	182011505ZT	LIFT ARM ASS'Y		1
108	18201130T	COLLAR	LIFT ARM	1

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
109	90980000T	ASS'Y SCREW	LIFT ARM.ASS'Y	1
110	18201129T	SPRING	LIFT ARM	1
111	18201103T	MAIN GEAR		1
112	95020000T	E.RING	MAIN GEAR	1
113	18201104T	PAUSE GEAR		1
114	95020000T	E.RING	PAUSE GEAR	1
115	18201127T	SPRING	P.TRIGGER ARM.ASS'Y	1
116	182011504ZT	PAUSE ARM ASS'Y		1
117	17000932T	SPRING	PAUSE ARM.ASS'Y	1
118	18201042T	BUTTON CAM		1
119	18201052T	SPRING	BUTTON CAM	1
121	18201041T	PAUSE LEVER		1
122	18201034T	LEVER SPRING	PAUSE LEVER	1
123	18201032AT	STOPPER	PAUSE LEVER	1
124	18201121T	REC.PLATE	REC.FUNCTION	1
125	18200806T	COLLAR	REC.FUNCTION PLATE	1
126	95670000T	MINI SCREW	REC.FUNCTION PLATE	1
127	17001612T	SPRING	REC.FUNCTION PLATE	1
128	182011509ZT	CHASSIS BASE	SUB.	1
129	18201148T	SWITCH BRACKET		1
130	64010144T	LEAF SWITCH	SWITCH BRACKET	1
131	91160000T	SCREW	SWITCH BRACKET	1
132	91800000T	TH.TAP.SCREW	SWITCH BRACKET	1
133	64010140T	LEAF SWITCH	SWITCH BRACKET	1
134	18201140T	SWICH BRACKET		1
135	90770000T	ASS'Y SCREW	SWITCH BRACKET	1
136	91160000T	SCREW	LEAF SW./SW.BRACKET	1
137	18200910T	T.R KICK LEVER		1
138	18200806T	COLLAR		1
139	98080000T	MINI SCREW		1
140	18200811T	COLLAR	AUTO LEVER	1
141	18200911T	KICK LEVER		1
142	94990000T	E RING	KICK LEVER	1
143	64010138T	LEAF SWITCH		1
144	90020000T	SCREW		1
145	18000201T	REC.SAF.LEVER		1
146	18201025T	COLLAR SCREW	BUTTON BASE	1
148	90020000T	SCREW	LEAF SWITCH	1
149	90770000T	ASS'Y SCREW	CHASSIS BASE	1

# 13 Exploded View of Enclosure Assembly

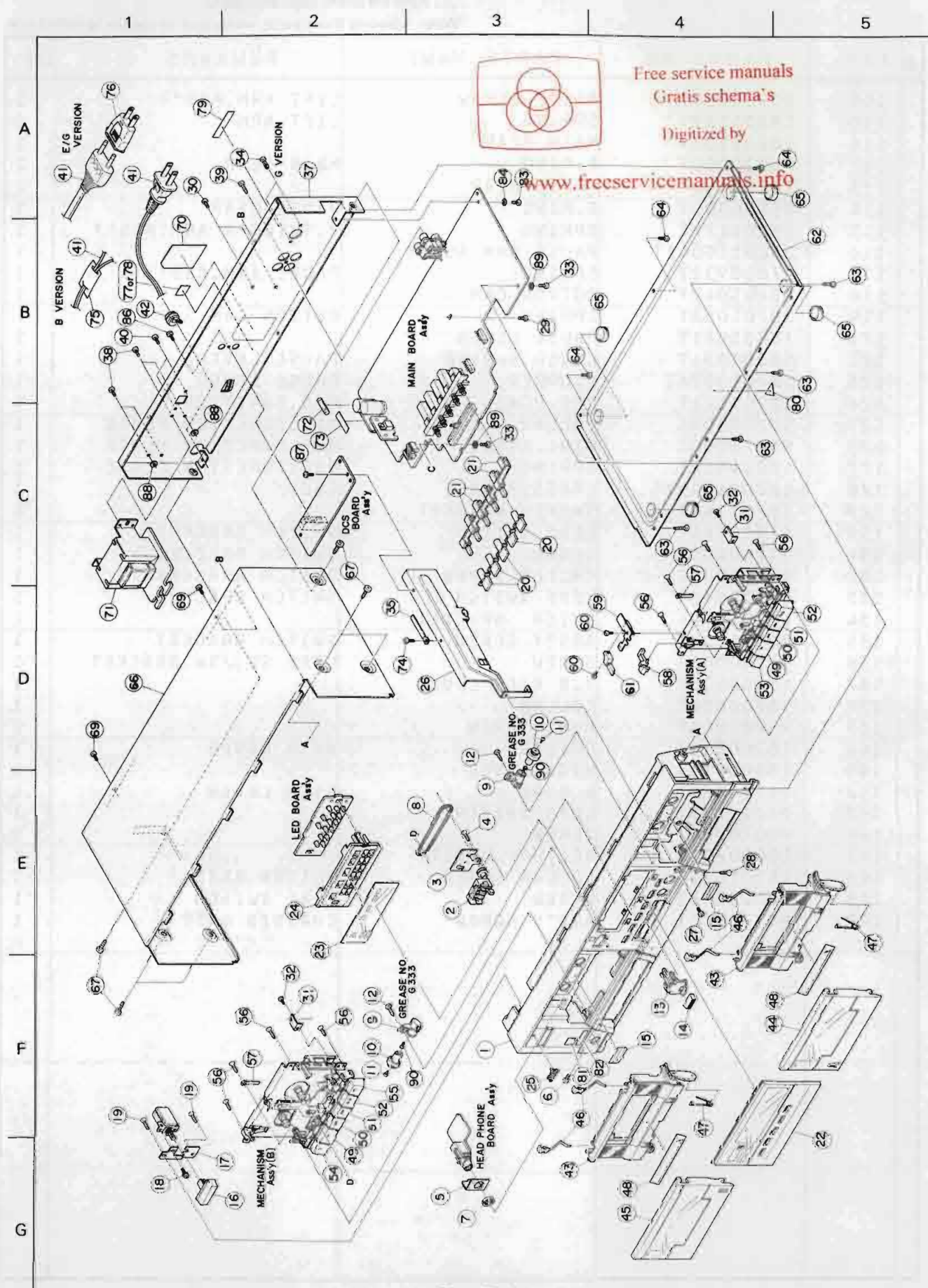


Fig. 13-1

## Enclosure Component Parts List

△ Parts are safety assurance parts.

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

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	VJC1572-016	FRONT PANEL		1
1-1	VJC1572-020UL	FRONT PANEL	TD-W111J	1
2	VKC5183-001T	TAPE COUNTER		1
3	VKL5900-001	COUNTER BRACKET		1
4	SDSF3010Z	SCREW	FOR COUNT BKT/F PANL	1
5	VKL6144-001	JACK BRACKET		1
6	SDST3006Z	SCREW		1
7	VKZ4150-001	SPECIAL NUT		1
8	VKB3000-083	BELT	FOR COUNTER	1
9	VYH5033-002	DAMPER HOLDER	GREASE NO.G333	2
10	VYH4769-002	GEAR		2
11	SDSB2004Z	SCREW	FOR GEAR	2
12	SDSF3010Z	SCREW	FOR DAMPER	2
13	VKS4968-001	SLIDER	FOR VOLUME	1
14	VXS4225-002	SLIDE KNOB	FOR INPUT LEVEL	1
15	VJD4005-003	REFLECTION PLAT		2
16	E72789-001	PUSH KNOB	FOR POWER	1
17	VKL6118-001	POWER BRACKET		1
18	LPSP3006Z	SCREW	FOR POWER SWITCH	1
19	SSSF3010Z	SCREW	FOR P.BRACKET	2
20	VXP4309-002	PUSH BUTTON	FOR SELECT	5
21	VKS4970-001	REMOTE BAR	FOR MODE SELECT	5
22	VJK3376-003	FINDER		1
23	VJD5036-003	LED PLATE		1
24	VKS3309-001	LED HOLDER		1
25	E72968-001	JVC MARK		1
26	VKL3857-001	CENTER CHASSIS		1
27	SSST3006Z	SCREW	FRONT+C.CHASSIS	1
28	SSST3008Z	SCREW	F.BOTTOM+C.CHASSIS	1
29	SDST3006Z	SCREW	C.CHASSIS+P.C.BOARD	1
30	SDST3006Z	SCREW	C.CHASSIS+REAR PANEL	2
31	VKL6116-001	AMP BRACKET		2
32	SDST2604Z	SCREW	A.BRACKET+M.BRACKET	2
33	SDST3006Z	SCREW	A.BRACKET+P.C.BOARD	2
34	E48729-002	PLASTIC RIVET	TD-W111G	2
35	VKZ4001-011	WIRE HOLDER		1
37	VJC2277-013	REAR PANEL	TD-W111A/B/C/E/J	1
	VJC2277-014	REAR PANEL	TD-W111G	1
	VJC2277-015	REAR PANEL	TD-W111U	1
38	SDST3006Z	SCREW	FOR POWER TRANS.	4
39	SDSF3008Z	SCREW	FOR PIN JACK	1
40	SDSP3006Z	SCREW	TD-W111U	2
△ 41	QMP1200-200	POWER CORD	TD-W111C/J	1
△ 41	QMP1200-200	POWER CORD		1
△ 41	QMP2560-200	POWER CORD	TD-W111A	1
△ 41	QMP3900-200	POWER CORD	TD-W111E/G	1
△ 41	QMP7380-200	POWER CORD	TD-W111U	1
△ 41	QMP9017-008BS	POWER CORD	TD-W111B	1
△ 42	QHS3876-162	S.R.BUSHING	TD-W111U	1
△ 42	QHS3876-162BS	S.R.BUSHING	TD-W111B	1
43	VJT2143-001	CASSETTE HOLDER		2
44	VJT2176-001	CASSETTE LID	FOR DEAK A	1
45	VJT2176-002	CASSETTE LID	FOR DEAK B	1
46	VKY4180-001	CASSETTE SPRING	FOR CASSETTE DOOR	4
47	VKW4584-001	HOLDER SPRING	FOR CASSETTE DOOR	2
48	VJD4895-009	HOLDER PLATE	FOR CASSETTE DOOR	2
49	VXP3190-002	MECHA BUTTON	FOR PLAY	1
	VXP3190-002	MECHA BUTTON	FOR PLAY	1
50	VXP3190-003	MECHA BUTTON	FOR REWIND	1

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

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	51	VXP3190-003	MECHA BUTTON	FOR REWIND	1
		VXP3190-004	MECHA BUTTON	FOR FAST FORWARD	1
	52	VXP3190-004	MECHA BUTTON	FOR FAST FORWARD	1
		VXP3190-005	MECHA BUTTON	FOR STOP/EJECT	1
		VXP3190-005	MECHA BUTTON	FOR STOP/EJECT	1
	53	VXP4627-001	MECHA BUTTON	FOR SYNCRO START	2
	54	VXP3190-001	MECHA BUTTON	FOR RECORD	1
	55	VXP3190-006	MECHA BUTTON	FOR PAUSE	1
	56	SSSF3010Z	SCREW	FOR MECHA/F PANEL	8
	57	VKZ4001-007	WIRE CLAMP	FOR MECHA	2
	58	VKS4833-001	ACTUATOR		1
	59	VKL5945-001	SW BRACKET		1
	60	SDST2605Z	SCREW	FOR MECHA	2
	61	VSH1141-001	LEAF SWITCH		1
	62	VJC2259-003	BOTTOM COVER		1
	63	SDSF3008Z	SCREW	FOR B.FRONT SIDE	3
	64	SDST3006Z	SCREW	FOR B.REAR SIDE	3
	65	VJF4003-005	FOOT		4
	66	VJC2287-001	TOP COVER		1
	67	SDSB4008M	SCREW	FOR TOP COVER/F PANL	4
		SDSB4008M	SCREW	FOR TOP COVER/R.PANL	2
	69	SDST3006Z	SCREW	FOR T.COVER/R.PANL	2
△	70	VYN2218-021PA	NAME PLATE	TD-W111J	1
△		VYN2218-022PA	NAME PLATE	TD-W111E	1
△		VYN2218-023PA	NAME PLATE	TD-W111B	1
△		VYN2218-024PA	NAME PLATE	TD-W111C	1
△		VYN2218-025PA	NAME PLATE	TD-W111G	1
△		VYN2218-026PA	NAME PLATE	TD-W111U	1
△		VYN2218-027PA	NAME PLATE	TD-W111A	1
△		VYN2218-226PA	NAME PLATE	TD-W111U (for Saudi Arabia)	1
△	71	VTP52A2-021F	P.TRANSFORMER	TD-W111C/J	1
△		VTP52G2-021F	P.TRANSFORMER	TD-W111U	1
△		VTP52M2-021F	P.TRANSFORMER	TD-W111A/E/G	1
△		VTP52M2-021FBS	P.TRANSFORMER	TD-W111B	1
△	72	QMF51A2-R25	FUSE	TD-W111U	1
△		QMF51A2-R80	FUSE	TD-W111A/C/E/G/U	1
△		QMF51E2-R80BS	FUSE	TD-W111B	1
	73	VND4003-032	FUSE LABEL	TD-W111U	1
	75	QZL1002-003	WARNING LABEL	TD-W111B	1
	76	VO4062-001	SIEMENS PLUG	TD-W111U	1
	77	T44362-001	CSA LABEL	TD-W111C	1
	78	VND4037-002	F MARK	TD-W111G	1
	79	VNC5004-001	MARK STICKER	TD-W111E/G	1
	80	VND4113-001	G.CAUTION CARD	TD-W111B	1
	81	VNC5004-001	MARK STICKER	TD-W111B	1
	82	TJL000420-01	CAUTION LABEL	TD-W111B	1
	83	SDST3006Z	SCREW	FOR MAIN BOARD	1
	84	WBS3000N	WASHER	FOR MAIN BOARD	1
	86	SDSF3008M	SCREW	R.PANEL+DCS P.W.B	1
	87	SDST3006Z	SCREW	C.CHASSIS+DCS P.W.B	1
	88	VYSS2R5-013	SPACER	FOR POWER TRANS.	2
	89	WBS3000N	WASHER	P.C.BOARD+A.BRACKET	2
	90	SPSH1730N	SCREW	FOR DUMP HOLDER	2

△	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1, 15, 22	ZCTDW111K-FBK	Front Panel Ass'y		1
	23, 24, 25	ZCTDW111J-FBK	Front Panel Ass'y	For J Area Suffix	1
	1-1, 15, 22	ZCTDW111K-CH-A	Cassette Door Ass'y	For A Mecha	1
	23, 24, 25	ZCTDW111K-CH-B	Cassette Door Ass'y	For B Mecha	1

# 14 Packing and Packing Parts List

Positions of Controls and Switch Knobs at Renewed Packing

POWER Switch : OFF  
 NR SYSTEM Switch : OFF  
 TAPE SELECT Switch : MIN  
 INPUT LEVEL Volume Control : MAX  
 TAPE COUNTER : "000" RESET  
 Mechanism Operation Button : OFF  
 DUBBING Switch : OFF  
 SPEED Switch : NORMAL

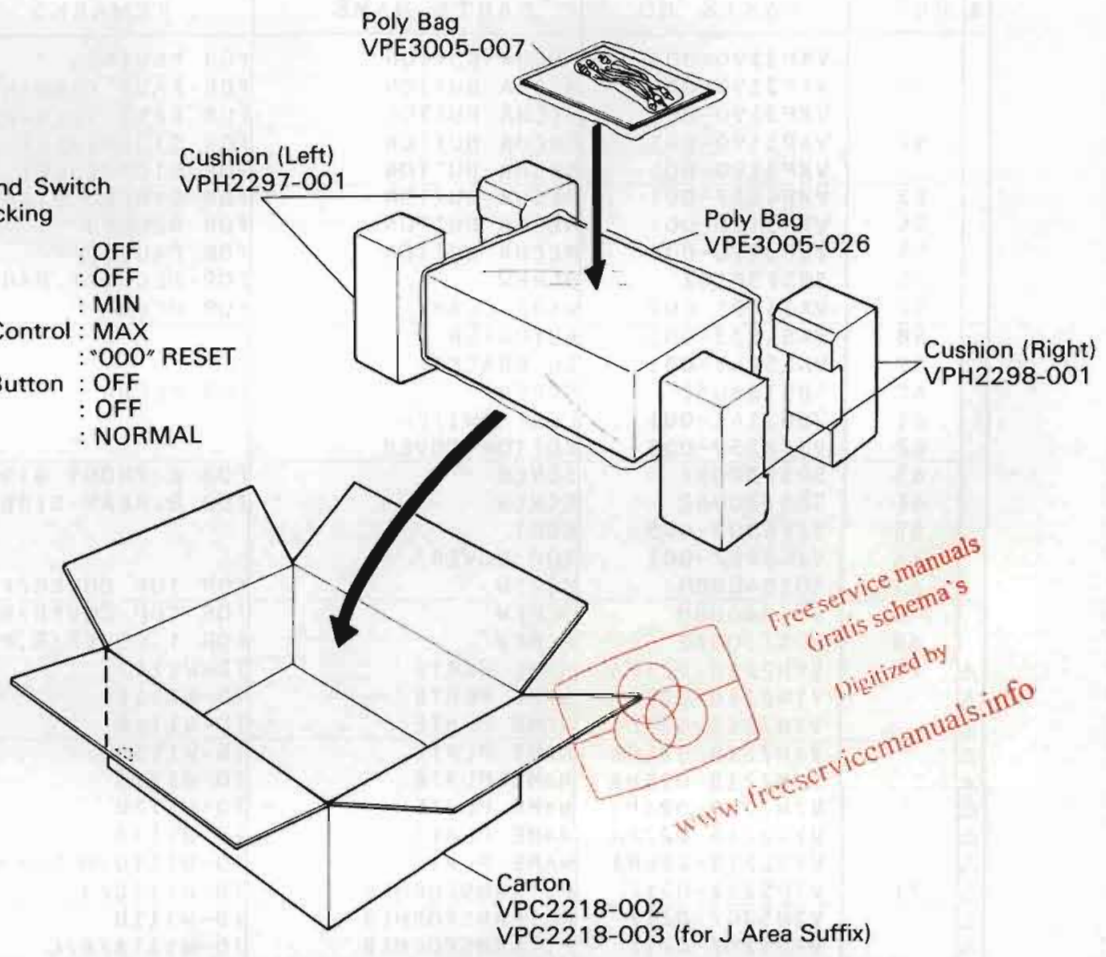


Fig. 14-1

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## Packing Parts List

Parts are safety assurance parts.  
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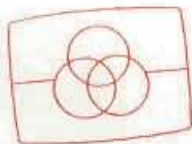
	Parts No.	Parts Name	Remarks	Q'ty
	VPC2218-021	Carton		1
	VPC2218-003	"	TD-W111J	1
	VPH2297-001	Cushion	Left Side	1
	VPH2298-001	"	Right Side	1
	VPE3005-026	Poly Bag	for Unit	1
	VPE3005-007	"	for Instruction Book	1



# 15 Accessories

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

⚠	Parts No.	Parts Name	Remarks	Q'ty
	VNN2218-661S	Instruction Book		1
	BT20029C	Warranty Card	TD-W111A	1
	BT20098	"	TD-W111A	1
	BT20066	"	TD-W111B/G (for JED)	1
	BT20060	"	TD-W111B	1
	BT20025J	"	TD-W111C	1
	BT20047C	"	TD-W111J/U (for PX, EES)	1
	BT20064	"	TD-W111G (for JED)	1
	BT20046C	Special Reply Card	TD-W111J/U (for PX, EES)	1
	BT20044E	Safety Guide	TD-W111J	1
	BT20071A	SVC Center List	TD-W111C	1
	VNC2200-019	Copyright law Warning	TD-W111A/B/C/E/J	1
	VNC1200-002	"	TD-W111C	1
	VNC5311-203	Caution Card	TD-W111U	1
	" -204	"	TD-W111U	1
	VND4113-001	G. Caution	TD-W111B/J	1
	VND4205-002	Caution	TD-W111B	1
	VND3044-002	Caution Card	TD-W111U	1
	EWP805-001	Remote Wire		1
	VMP0039-00C	Pin Cord		1
	TCP-3304	Audio Tape Pamphlet		1
	VO4062-001	Conti. Plug	TD-W111U	1



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# JVC

VICTOR COMPANY OF JAPAN, LIMITED.  
AUDIO PRODUCTS DIVISION MAEBASHI PLANT 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan