SLV-D910AZ/D910B/D910E/D910N/D910R/ D950B/D950E/D950GI RMT-V503A/V503B

SERVICE MANUAL

9 **a** C

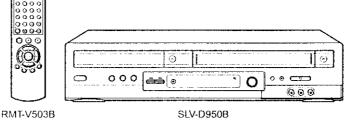
AEP Model

SLV-D910B/D910E/D910N/D950B/D950E

UK Model SLV-D950GI

E Model SLV-D910AZ

Russian Model SLV-D910R



TS-10 MECHANISM

Refer to the SERVICE MANUAL of VHS MECHANI-CAL ADJUSTMENT MANUAL VII for MECHANICAL ADJUSTMENTS, (9-921-790-11)

SPECIFICATIONS

System

Laser

Semiconductor laser Signal format system

> PAL (NTSC) SLV-D910B/D950B:

SECAM

SLV-D910B/D910N/D910R/D950B:

MESECAM

Channel coverage

SLV-D910B/D910E/D950B/D950E:

PAL (B/G):

VHF E2 to E12

VHF Italian channel A to H

UHF E21 to E69 CATV \$01 to \$05, \$1 to \$20

HYPER S21 to S41

SLV-D950GI:

PAL(I):

VHF IA to 1J, SA10 to SA13 UHF B21 to B69 CATV S01 to S05, S1 to S20 HYPER S21 to S41

SLV-D910B/D950B:

SECAM (L):

VHF F2 to F10

UHF F21 to F69

CATV B to Q HYPER S21 to S41

SLV-D910N/D910R:

PAL (B/G, D/K):

VHF E2 to E12, R1_R12

UHF E21 to E69, R21-R69

CATV S01 to S05, S1 to S41

SLV-D910AZ:

B/G: VHF E2 to E12/UHF E21 to E69/

CATV S01 to S05, S1 to S41

B/B: VHF R1 to R12/UHF R21 to R69

RF output signal

SEV-D910F/D910N/D910R/D950F/D950GE

UHF channels 21 to 69

SLV-D910AZ:

UHF channels 21 to 69 (B/G) UHF channels 28 to 69 (B/B) Acrial out

75-ohm asymmetrical aerial socket

Tape speed

SP: PAL 23.39 mm/s

(recording/playback)

NTSC 33.35 mm/s

(playback only)

SLV-D910B/D950B:

23.39 mm/s SECAM (recording/playback)

MESECAM 23.39 mm/s

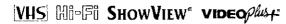
(playback only)

SLV-D910N/D910R:

MESECAM 23,39 mm/s (recording/playback)

— Continued on next page —

DVD PLAYER/







VIDEO CASSETTE RECORDER

SONY

LP: PAL 11.70 mm/s (recording/playback) NTSC 16.67 mm/s (playback only) SLV-D910B/D950B: SECAM 11.70 mm/s (recording/playback) MESECAM 11.70 mm/s (playback only) SLV-D910N/D910R: MESECAM 11.70 mm/s (recording/playback) EP: NTSC 11.12 mm/s (playback only) Maximum recording/playback time 10 hrs. in LP mode (with E300 tape) Rewind time Approx. 1 min. (with E180 tape) Inputs and outputs SLV-D910B/D910E/D910N/D910R/D950B/ D950E/D950GI: LINE-I (EURO AV) Video input: pin 20 Audio input: pins 2 and 6 Video output: pin 19 Audio output: pins 1 and 3 LINE-2 IN -D / -D L/R VIDEO IN, phono jack (1) Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative AUDIO IN, phono jacks (2) Input level: 327 mVrms Input impedance: more than 47 kilohms LINE-3 21-pin Video input: pin 20 Audio input: pins 2 and 6

OUT VIDEO OUT, phono jack (1) Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative AUDIO OUT, phono jacks (2) Standard output: 327 mVrms Load impedance: 47 kilohms Output impedance: less than 10 kilohms SLV-D910AZ: LINE IN I/LINE-2 IN VIDEO IN, phono jack (1) Input signal: 1 Vp-p, 75 ohms, unbalanced, sync AUDIO IN, phono jacks (2) Input level: 327 mVrms Input impedance: more than 47 kilohms LINE OUT VIDEO OUT, phono jack (1) Output signal: 1 Vp-p, 75 ohms, unbalanced. sync negative AUDIO OUT, phono jacks (2) Standard output: 327 mVrms

DIGITAL OUT (OPTICAL)
Optical output jack/-18 dBm
(wave length 660 nm)
DIGITAL OUT (COAXIAL)
Phono jack/0.5 Vp-p/75 ohms
S VIDEO OUT
4-pin mini DIN/Y: 1.0 Vp-p, C: 0.3 Vp-p (PAL),
0.286 Vp-p (NTSC)/75 ohms

Output impedance: less than 10 kilohms

SLV-D910AZ: COMPONENT VIDEO OUT (Y, Cb, Cr) phono jack Y: 1.0 Vp-p/Cb, Cr: 0.7 Vp-p, 75 ohms

Load impedance: 47 kilohms

Timer section

Clock
Quartz locked
Timer indication
24-hour cycle
Timer setting
6 programs (max.)
SLV-D910AZ:
Power back-up
Back-up duration: up to 1 hour at a time

•

General
Power requirements
220 - 240 V AC, 50 Hz
Power consumption
25 W
Operating temperature
5 °C to 40 °C
Storage temperature

Storage temperature

-20 °C to 60 °C
Dimensions including projecting parts and controls (wh/d)
SLV-D910AZ/D950:
Approx. 430 × 95 × 333 mm

SLV-D910B/D910E/D910N/D910R: Approx. 430 × 95 × 325 mm Mass

Approx. 4.2 kg

Supplied accessories
Remote commander (1)
R6 (size AA) batteries (2)
Aerial cable (1)
Audio cord (pinplug ×2 ← pinplug ×2) (1)
Video cord (pinplug ×1 ← pinplug ×1) (1)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

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

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 5. Check the B+ voltage to see it is at the values specified.

WARNINGII

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY, IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 25 cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED

LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS

AND IN THE PARTS LIST ARE CRITICAL TO SAFE

OPERATION. REPLACE THESE COMPONENTS WITH

SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS

PUBLISHED BY SONY.

CAUTION:

The use of optical instrument with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Unleaded solder

Boards requiring use of unleaded solder are printed with the leadfree mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LEAD FREE MARK

Unleaded solder has the following characteristics.

 Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

· Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

· Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

3 ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity.

Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- (1) Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- (2) After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- (3) Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
- (4) Use only an anti-static solder removal devices. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
- (5) Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
- (6) Do not remove a replacement ESD device from its protective package until immediately before your are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
- (7) Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

(8) Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

4 HANDLING THE OPTICAL PICK-UP

The laser diode in the optical pick up may suffer electrostatic breakdown because of potential static electricity from clothing and your body.

The following method is recommended.

- (1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)
- (2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.
- (3) Place your hands on the conductive sheet(This gives them the same ground as the sheet.)
- (4) Remove the optical pick up block
- (5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.
- Be sure to put on a wrist strap grounded to the sheet.
- Be sure to lay a conductive sheet made of copper etc. Which is grounded to the table.





Fig.3

- (6) Short the short terminal on the PCB, which is inside the Pick-Up ASS'Y, before replacing the Pick-Up. (The short terminal is shorted when the Pick-Up Ass'y is being lifted or moved.)
- (7) After replacing the Pick-up, open the short terminal on the PCB.

5 PICK-UP DISASSEMBLY AND REASSEMBLY

5-1 Disassembly

- Remove the power cord.
 Disassemble the Deck-Assy.
 Make solder land 2 points short on Pick-up. (See Fig. 4)
 4) Disassembly the Pick-up.

5-2 Assembly

- Replace the Pick-up.
 Remove the soldering 2 points on Pick-up.
 Reassemble the Deck-Assy.

Note: If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

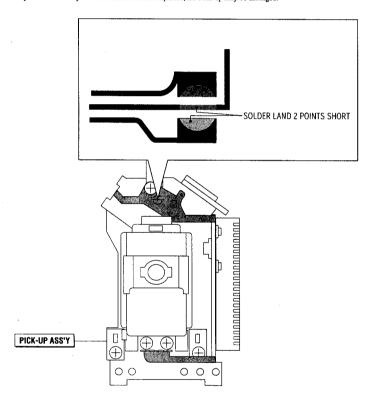


Fig. 4

SLV-D910AZ/D910B/D910E/D910N/D910R/ D950B/D950E/D950GI

. GENERAL

This section is extracted from SLV-D91OB/D950B instruction manual. (3-084-916-E2)

Getting Started

Step 1: Unpacking

Check that you have received the following items with the DVD-VCR:







· PERITEL cable









Check your model name

The instructions in this manual are for the 2 models: SLV-D950B and SLV-D910B. Check your model name by looking at the rear panel of your DVD-VCR. SLV-D950B is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, "SLV-D950B only".

8 Unpacking

Controlling other TVs with the remote commander

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the following table, set the appropriate manufacturer's code number.

Set TY / DVD-VIDEO at the top of the remote commander to TV.

2 Hold down I/O, and enter your TV's code number using the number buttons. Then release I/O.

Now you can use the I/ \dot{U} , VOL +/-, PROG +/-, MUTING*, TV/VIDEO, 0-9 and -/--* buttons to control your TV. You can also use the buttons marked with a dot (*) to control a Sony TV. To control the DVD-VCR, reset $\underline{TY}/\underline{DVD-VIDEO}$ to $\underline{DVD-VIDEO}$.

* for Sony TV only

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
Sony	01, 02
Akai	68
Ferguson	52
Grundig	10, 11
Hitachi	24
IAC	33
Loewe	45.
Mivar	09, 70
NEC	66
Nokia	15, 16, 69

Manufacturer	Code number
Panasonic	17, 49
Philips	06, 07, 08
Saba	12, 13
Samsung	22, 23
Sanyo	25
Sharp	29
Telefunken	36
Thomson	43
Toshiba	38

- If you enter a new code number, the code number previously entered will be erased.

 If the TV uses a different remote control system from the one programmed to work with the DVD-VCR, you cannot control your TV with the remote commander, the VWBen you replace the batteries of the remote commander, the code number may change. Set the appropriate code number every time you replace the batteries.

Step 2: Setting up the remote commander

inserting the batteries

Insert two size AA (R6) batteries by matching the + and - on the batteries to the diagram inside the

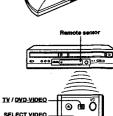
Insert the negative (-) end first, then push in and down until the positive (+) end clicks into position.

Using the remote commander

You can use this remote You can use this remote commander to operate this DVD-VCR and a Sony TV. Buttons on the remote commander marked with a dot (*) can be used to

symbol near the remote sens remote commander will not operate the TV.





remote command operate the TV.	SELECT VIDEO O O O O O O O O O O O O O O O O O O	
To operate	Set TV / DVD-VIDEQ to	
the DVD player	DVD-VIDEO, then press SELECT DVD and point at the remote sensor at the DVD-VCR	
the VCR	DVD-VIDEO, then press SELECT VIDEO and point at the remote sensor at the DVD-VCR	
your TV	TV and point at the remote sensor at your TV	

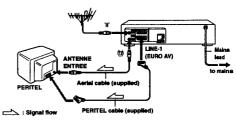
- With normal use, the batteries should last about three to six months.
 If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
 Do not use a new battery with an old one.
 Do not use different types of batteries.
 Do not leave the remote commander in an extremely hot or humid place.
 Do not drop any foreign object into the remote casting, particularly when replacing the batteries.
 Do not expose the remote sensor to direct light from the sun or lighting apparatus. Doing so may cause a malfunction.

continued

Setting up the remote commander 9

Step 3: Connecting the DVD-VCR

Note that "Advanced Hookups" (page 59) explains additional hookup methods that will optimize the picture and sound for a true "hometheatre" experience.

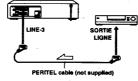


1	Disconnect the aerial cable from your TV and connect it to T on the rear panel of the DVD-VCR.	
2	Connect or the DVD-VCR and the aerial input of your TV using the supplied aerial cable.	O
3	Connect LINE-1 (EURO AV) on the DVD-VCR and the PERITEL connector on the TV with the supplied PERITEL cable. This connection improves picture and sound quality. Whenever you want to watch the DVD-VCR picture, press TV/VIDEO to display the VCR indicator in the display window.	Z. 5
4	Connect the mains lead to the mains.	

continued

To a satellite or digital tune with Line Through

Using the Line Through Using the Line Through function, you can watch programmes from a satellite or digital tuner connected to this DVD-VCR on the TV even when the DVD-VCR is turned off. When you turn on the satellite or digital tuner, this DVD-VCR automatically sends the signal from the satellite or digital tuner to the TV without turning itself on.



1 Connect the satellite or digital tuner to the LINE-3 connector as shown above.

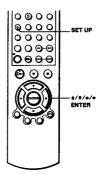
2 Turn off the DVD-VCR.

To watch a programme, turn on the satellite or digital tuner and the TV.

- This function may not work with some types of satellite or digital tuners When the DVD-VCR is turned off, set the TV to the video channel.

Step 4 : Setting up the DVD-VCR with the **Auto Set Up function**

Before using the DVD-VCR for the first time, set up the DVD-VCR using the Auto Set Up function. With this function, you can set TV channels, guide channels for the ShowView system*, and DVD-VCR clock



Turn on your TV and set it to the video channel 1

2 Connect the mains lead to the mains. The DVD-VCR automatically turns on and the "SELECTION DU PAYS" menu appears.

OF ENER SEUM SETUP

12 Connecting the DVD-VCR



Press ◆/◆ to select your country, then press ENTER.

The DVD-VCR starts searching for all of the receivable channels and presets them (in the appropriate order for your local area).

If you want to change the order of the channels or disable unwanted programme positions, see "Changing/disabling programme positions" on page 21.

After the search is complete, the current time appears for any stations that transmit a time signal. If the time does not appear, set the clock manually. See "Setting the clock" on page 16.

INSTALLATION AUTO

RETURN SET UP)

To cancel the Auto Set Up function

Tip

If you want to change the language for the on-screen display from the one preset in the Auto-Set Up function, see page 15.

- Notes

 Whenever you operate the Auto Set Up function, some of the settings (ShowView, timer, etc.) will be reset. If this happens, you have to set them again.

 Auto preset starts automatically only when you plug in the mains lead for the first time after you purchase the DVD-VCR.

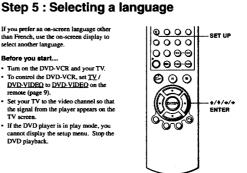
 If you want to use the Auto Set Up function again, select "Installation" in the "OPTION" mens, then press 4"4 to select "Installation Auto", then repeat step 3.

 Auto preset can be performed by pressing
 on the unit continuously for 5 seconds or more during power off with no tape inserted.

If you prefer an on-screen language other than French, use the on-screen display to select another language.

Before you start...

- Turn on the DVD-VCR and your TV.
- Turn on the DVD-VCR and your TV.
 To control the DVD-VCR, set IV/DVD-VIDEQ to DVD-VIDEQ on the remote (page 9).
 Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



Setting up the DVD-VCR with the Auto Set Up function $\left|\ 13\right|$

Press SET UP, then press ◆/▼ to select (OPTION) and press ENTER. O





Press ♦/♦ to select "Langue", then press ENTER. The "SELECTION LANGUE" menu appears.



Press ♦/♦ to select the desired language, then press ENTER.

Press SET UP to exit the menu.

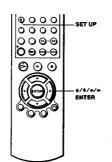
Step 6: Setting the clock

You must set the time and date on the DVD-VCR to use the timer features properly.

The Auto Clock Set function works only if a station in your area is broadcasting a time signal.

Before you start...

- Turn on the DVD-VCR and your TV.
 To control the DVD-VCR, set TY / DVD-VIDEO to DVD-VIDEO on the
- remote (page 9).
 Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



SETUP Press SET UP, then press ◆/◆ to select (OPTION) and press ENTER.



Press ◆/◆ to select "L'horloge", then press ENTER. Press •/• to select "L'horloge", then press ENTER.

The "REGLAGE HORLOGE" menu appears.



Ô

Press #/# to set the hour.



16 Setting the clock

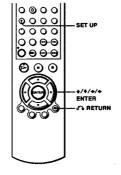
Step 7: Presetting channels

If some channels could not be preset using the Auto Set Up function, you can preset them manually.

Before you start..

- Turn on the DVD-VCR and your TV.
 To control the DVD-VCR, set TY / DVD-VIDEQ to DVD-VIDEQ on the
- remote (page 9).

 Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



Press SET UP, then press ♦/♦ to select (OPTION) and press ENTER.



O

Press ♦/♦ to select "Installation", then press ENTER.

The "INSTALLATION" menu appears



Press → to select the minutes and set the minutes by pressing ◆/◆.



Set the day, month, and year in sequence by pressing • to select the item to be set, and press •/• to select the digits, then press •. The day of the week is set automatically.



6

Press ♦/♦ to select "Oui" for the setting of the Auto Clock Set function.

The DVD-VCR automatically sets the clock according to the time signal broadcast between the channels PR 1 to PR 5.

If you do not need the Auto Clock Set function, select "Non". POPPER RUN SETUP

Press ENTER to confirm the setting.

Press SET UP to exit the menu.

Õ

Tips

• If you set "Hortoge Auto" to "Oui", the Auto Clock Set function is activated wheaver the DVD-VCR is turned off. The time is adjusted automatically by making reference to the time signal from the station.

To change the digits while setting, press \bullet to return to the item to be changed, and select the digits by pressing \bullet/\bullet .

Note

The clock display appears when VIDEO mode is selected with no tape inserted or when the DVD-VCR is turned off.

Setting the clock 17



Press ♦/♥ to select "Installation Manuelle", ess ENTER.



Press ♦/♦ to select the row which you want to preset, then press .

To display other pages for programme positions 6 to 80, press */* repeatedly.



5 **(** Press ♦/♦ to select "SYS." if necessary.



Press */* to set "L/L" or "B/G" if necessary.

To receive broadcast in France, select "L/L".
To receive broadcast using the PAL system (for example, in Germany or Switzerland), select "B/G".



Press ♦/♦ to select "CANAL", then press ♦/♦ repeatedly until the channel you want is displayed.



Press */* to select "NOM", then press *.



continued

tting channels | 19

Enter the station name.

Press ◆/♦ to select a character.

Each time you press 4, the character changes as shown below.

A → B → ... → Z → 0 → 1 → ... → 9

A



2 Press + to set the next character.
The next space flashes.

To correct a character, press */* until the character you want to correct

You can set up to 4 characters for the station name

10

Press ENTER to confirm the station name

Press 6 RETURN, then press SET UP to exit the menu.

ETUP

If the picture is not clear

If the picture is not clear, you may use the Manual Fine Tuning (REGL.FIN) function. After step 7, press */* to select "REGL.FIN". Press */* to get a clear picture. Then press ENTER.

- . To set the programme position for the decoder, see "Setting the Canal Plus decoder" on page 27.
- page 27.
 The DVD-VCR must receive channel information for station names to appear automatically.

Note

When adjusting REGL-FIN, the menu may become difficult to read due to interference from the picture being received.

20 Presetting hannels



Press ♦/♦ to select "Installation Manuelle", then press ENTER.



Press ♦/♦ to select the row containing the programme position you want to change. To display other pages for programme positions 6 to 80, press */* repeatedly.



Press ENTER, then press 4/4 to move to the desired programme position.



Press ENTER to confirm the setting

To change the programme position of another station, repeat steps 4 through 6.

0

Press & RETURN, then press SET UP to exit the menu.

SET UP

Changing/disabling programme positions

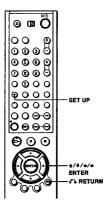
After setting the channels, you can change the programme positions as you like. If any programme positions are unused or contain unwanted channels, you can disable them.

You can also change the station names. If the station names are not displayed, you can enter them manually.

Changing programme positions

Before you start...

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TY / DVD-VIDEO to DVD-VIDEO on the
- remote (page 9). Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



Press SET UP, then press \$/\$ to select (OPTION) and press ENTER.



Press ♦/♦ to select "Installation", then press ENTER.

The "INSTALLATION" menu appears

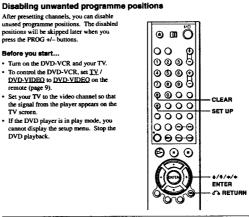


After presetting channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/- buttons.

Before you start...

- Turn on the DVD-VCR and your TV. . To control the DVD-VCR, set TV /
- Octorion the DVD-VCR, set 1V/DVD-VIDEQ to DVD-VIDEQ on the remote (page 9).

 Set your TV to the video channel so that the signal from the player appears on the TV screen.
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



Press SET UP, then press ◆/◆ to select (OPTION) and press ENTER.



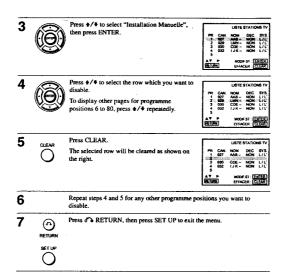
2

Press ♦/♦ to select "Installation", then press ENTER.

The "INSTALLATION" menu appears







24 Presetting channels



Press */* to select the row which you want to change or enter the station name, then press *. To display other pages for programme positions 6 to 80, press ₹/★ repeatedly.

REC	CHERCHE MANUELLE
SYS.	: L/C
CAMPL	998
REGLIFIN DECODEUR	NON
NOM	
AT4 >	MEMORE : ENTER
(ME 10-91)	

(

Press 4/♦ to select "NOM", then press ◆.



Enter the station name.

1 Press #/# to select a character. Each time you press \$\frac{1}{2}\$, the character changes as shown below.

A → B → ... → Z → 0 → 1 → ... → 9

→ A



2 Press • to set the next character.
The next space flashes. To correct a character, press ϕ/ϕ until the character you want to correct flashes, then reset it. You can set up to 4 characters for the station name.

Press ENTER to confirm the new name.

RETURN

Press & RETURN, then press SET UP to exit the menu.

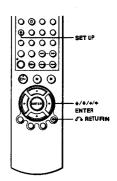
SET UP

Changing the station names You can change or enter the station names (up to 4 characters). The DVD-VCR must receive channel information for station

- Turn on the DVD-VCR and your TV.
- To control the DVD-VCR, set TV / DVD-VIDEQ to DVD-VIDEQ on the
- DVD-VIDEQ to DVD-VIDEQ on the remote (page 9).

 Set your TV to the video channel so that the signal from the player appears on the TV screen.

 If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



SETUP

Press SET UP, then press ◆/◆ to select (OPTION) and press ENTER.





Press ♦/♦ to select "Installation", then press ENTER.

The "INSTALLATION" menu appears



(

Press ◆/◆ to select "Installation Manuelle", then press ENTER.



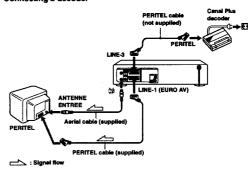
continued

Presetting channels 25

Setting the Canal Plus decoder

ord Canal Plus programmes if you connect a decoder (not supplied) to the

Connecting a decoder



Setting the Canal Plus decoder 27

26 Presetting channels

Settin Canal Plus channels

To watcher record Canal Plus programmes, set your VD-VCR to receive the channels usin 8 thon-screen display.

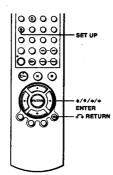
In o green set the channels correctly, be sure to fc>llowll of the steps below.

Befere ou start...

- . Talarn o the DVD-VCR and your TV.
- To conclude DVD-VCR and your IV.

 To conclude DVD-VCR, set TV/
 D-VD-IDEO to DVD-VIDEO on the
 re Troot/page 9).

 Set you T to the video channel so that
 the signal from the player appears on the
 TV screen.
- If the IVD player is in play mode, you cannodisplay the setup menu. Stop the D ▼D hayback.



O

Press SET UP, then press 4/4 to select (OPTION) and press ENTER.



•1• ENTER RETURN SET UP

2

Press ♦/♦ to select "Installation", then press ENTER.

The "INSATLLATION" menu appears

INSTALLATION OF ENTER RETURN SET UP

Press ♦/♦ to select "Installation Manuelle", then press ENTER.



28 Setting the Canal Plus decoder

- totas

 To superimpose subtitles while watching Canal Plus programmes, make both decoder-VCR and VCR-TV connections using 21-pin PERITEL cables that are compatible with the RGB signals. You cannot record subtitles on the VCR.
 When you watch Canal Plus programmes through the RFU input of the TV, press TV/VIDEO so that the VCR indicator appears in the display window.



Press ♦/♦ to select the row which you want to set for the decoder, then press ♦.

To display po ons 6 to 80, press 4/4



Press ♦/♦ to select "SYS." if necessary.



Press +/+ to set "L/L" or "B/G" if necessary.

To receive broadcast in France, select
 "L/L".

To receive broadcast using the PAL system (for example, in Germany or Switzerland), select "B/G".



Press ◆/◆ to select "DECODEUR".



Press → to set "DECODEUR" to "OUI", then press ENTER.



RETURN

Press & RETURN, then press SET UP to exit the menu

SET UP

ng the Canal Plus decoder 29

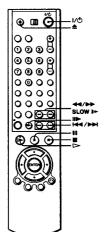
Basic Operations

Playing discs ovo vo co DATA-CD

Depending on the disc, some operations may be different or restricted. Refer to the operating instructions supplied with your disc.

Before you start...

- Turn on the DVD-VCR and your TV.
 Set your TV to the video channel so that the signal from the player appears on the TV screen.
- Set TY / DVD-VIDEQ to DVD-VIDEQ. then press SELECT DVD to control the DVD player (page 9).



1

Press
to open the disc tray and place a disc on the disc tray.

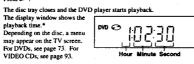


Playing discs 31

2



Press >



"----" appears when no disc is loaded.

AGGRIONEI TASKS		
То	Press	
Stop play	•	
Pause play*	11	
Resume play after pause	H or ⊳	
Advance by frame in pause mode	1111	
Go to the next chapter, track, or scene in continuous play mode	▶ on the remote	
Go back to the previous chapter, track, or scene in continuous play mode	I on the remote	
Stop play and remove the disc	_	

If you pause the DVD player for more than 5 minutes, the DVD player will automatically stop.

To Resume playback for the current disc (Resume Play)

The DVD player remembers the point where you stopped the disc even if the DVD player enters standby mode by pressing $1/\dot{O}$.

¶ While playing a disc, press ■ to stop playback.



The DVD player starts playback from the point where you stopped the disc in

To begin playback from the top of the disc, press ■ twice then press ▷.

32 Playing discs

- Notes on playing DVDs with a DTS sound track

 DTS audio signals are output only through the DIGITAL AUDIO OUT (COAXIAL or OPTICAL) jack.
- OPTICAL) jack.
 When you jays a DVD with DTS sound tracks, set "DTS" to "Oui" in "Options Audio" menu (page 63).
 If you connect the player to audio equipment without a DTS decoder, do not set "DTS" to "Oui" in "Options Audio" menu (page 63). A loud noise any come out from the speakers, affecting your ears or causing the peakers to be damaged.
- * "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

To locate a point quickly by playing a disc in fast forward or fast reverse in continuous play mode (DVD, VIDEO CD and CD only)

Press ◀ or ▶ ▶.

For DVD or VIDEO CD, each time you press the button, the playback speed changes

FF3/FR3 → FF2/FR2 → FF3/FR3 → FF4/FR4 (DVD only) → FF3/FR5 (DVD only)

Release the button at the desired speed.

For CD, the searching speed does not change (FF2/FR2 play).

When you find the point you want, press >.

To watch slow motion in continuous play mode (DVD and VIDEO CD only)

Press 88, then press ▶► SLOW 8►. With each press, the playback speed changes cyclically as follows.

To resume normal playback, press >.

Ttp

• To make a video timer reservation during DVD playback, we recoperations under "Quick Timer Recording" (page 96).

- Notes
 You can change the screen type using the "REGILAGE DE L'ECLAN" menu. (See "Screen
 Setup" on page 65.)
 Do not perform VIDEO playback while playing back a disc.
 If you play a DVD or VIDEO CD that has screatches, the player may stop playback at the
 point of the scratch or skip to the next track.
 YOU cannot change the MP3 or the Multi Session CD playback speed.
 VIDEO CD fast forward/reverse cannot be paused.
 During CD fast forward/reverse play, no sound is output.

- Outsige Core and rowant/reverse play, no sound is output.

 Notes on playing DTS* sound tracks on a CD

 When playing DTS-encoded CDs, excessive noise will be heard from the analog sterro jacks. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog steroe jacks to the DVD player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel decoder system must be connected to the digital jack of the DVD player are connected to the digital jack of the DVD player to an audio CD (rage 82).

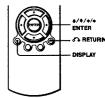
 Do not play DTS cound tracks without first connecting the DVD player to an audio component having a built-in DTS decoder. The DVD player to puts the DTS signal via the D/G/TTAL AUDIO OUT (COAXIAL or OPTICAL) jack even if "DTS" is set to "bion" in "Outputs Audio" menu (page 63), and may affect yout ears or cause your speakers to be damaged.

Playing discs 33

Guide to the on-screen display DVD VCD CD DATA-CD

You can check disc information during

The displayed contents differ according to the type of disc being played.



Press DISPLAY. The following information appears; type of disc, current title/track, chapter, counter position, voice language, subtitle language and surround setting.

Refer to "DVD Audio/Subtitle Language" on page 126 for the abbreviation of the



You can playback the desired title/track, chapter or co

To playback the desired title/track or chapter

↑ Press ♦/♦ to select the desired item.

2 Press */* to change the item.

3 Press ENTER to start playback. 4 Press DISPLAY or 6 RETURN to turn off the menu.

The title/track or chapter icon will appear on the DVD playback screen followed by the current title/track or chapter number and the counter position.

continued

Guide to the on-screen display 35

34 Playing discs

- ↑ Press ♦/♦ to select the counter position icon
- 2 Enter the desired elapsed playing time of the current title/track using the number buttons.
- 3 Press ENTER to start playback.
- 4 Press DISPLAY or 6 RETURN to turn off the

Tip

• You can change the counter position information (playing time or remaining time) using

•/◆ (DVD and CD only).

DVD		
Indication	Counter Information	
T *:**:**	Elapsed playing time of the current title	
T-+:++:	Remaining time of the current title	
C *:**:**	Elapsed playing time of the current chapter	
C-+:++:++	Remaining time of the current chapter	
CD		
Indication	Counter information	
T *: **: **	Elapsed playing time of the current track	
T- + ; ++ ; ++	Remaining time of the current track	
D •:••:••	Elapsed playing time of the disc	

- The display may not change as operated depending on the disc.
 The display window continue indicating the playing time even when information on the on-screen display is being changed.

Additional tasks	
То	Press
Stop play	
Pause play*	11
Resume play after pause	II or ⊳
Fast-forward the tape	▶► during stop
Rewind the tape	during stop
Eject the tape	<u> </u>

* If you pause the VCR for more than 5 minutes, the VCR will automatically resume play.

To play a recently watched scene

You can immediately rewind and playback the scene you want to watch again.

To skip playback

You can skip a scene that you do not want to watch (such as a commercial) and restart playback.

During playback, press III STEP. The VCR skips the tape 30 seconds on the counter each time the button is pressed (up to four times) and playback is resumed.

To turn off the power while rewinding (Rewind Shut Off)

Press I/O while the tape is rewinding. The power will turn off, but the tape will keep rewinding until it reaches the end.

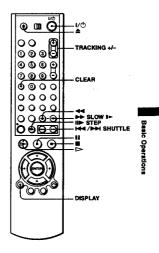
Playback options	Operation
View the picture during fast- forward or rewind	During fast-forward, hold down ▶▶. During rewind, hold down ◄◄.
Play at high speed	During playback, briefly press ▶> or ◄◄. The tape continues to play at 5 times normal speed. During playback, hold down ▶> or ◄◄. The tape continues to play at 5 times normal speed. When you release the button, normal playback resumes.
Play in slow motion	During pause, press ►► SLOW ►.
Play frame by frame	During pause, press ₩► STEP.
Play at various speeds (Shuttle play)	During playback, press l◀or ▶►. You can change the playback speed as follows. REVIEW*! ←→ ×2 ←→ ×1 ←→ -SLOW ←→ STILL ←→ SLOW ←→ PLAY ←→ ×2 ←→ CUE*!

- *1 "REW" flashes in the display window *2 "FF" flashes in the display window.

Playing a tape ma

Before you start...

- Turn on the DVD-VCR and your TV.
 Set your TV to the video channel so that the signal from the player appears on the TV screen.
 Set IY / DVD-VIDEO to DVD-VIDEO.
- then press SELECT VIDEO to co VCR (page 9).



1 Insert a tape.

The VCR starts playing automatica you insert a tape with its safety tab removed.



2 (Press 🗠

The display window shows the playback time. When the tape reaches the end, it will rewind automatically.



Playing a tape 37

To resume normal playback

To set the colour system

If the playback picture has no colour, or streaks appear during palyback, set the "Syst. Couleur" option in the "REGLAGES UTILISATEUR" menu to conform to the system that the tape was recorded in (see page 110) (Normally set the option to "Auto").

To use the time counter

Press CLEAR at the point on the tape that you want to find later. The counter in the display window resets to "0:00:00".



To display the counter on the TV screen, press DISPLAY during normal playback

- Adjust the picture using the TRACKING +/- buttons if:

 Streaks appear while playing in slow motion.
 Bands appear at the top or bottom while pausing.
 The picture shakes during pause.

- lotes
 Tapes recorded in the LP mode on other VCRs can be played back on this VCR but the picture quality cannot be guaranteed.
 The couser resets to "0:00:00" whenever a tape is reinserted.
 The couser stops counting when it comes to a portion with no recording.
 Depending on your TV, the following may occur while playing an NTSC-recorded tape:

 The picture becomes black and white.
 The picture shakes.
 No picture appears on the TV screen.

- The picture shakes.

 No picture appears on the TV screen.

 Black steads appear horizontally on the TV screen.

 Black steads appear horizontally on the TV screen.

 The colour density increases or decreases.

 When 10 hours have passed, the counter in the display window returns to "0:00:00" and the count starts over again.

 The sound is muted during playback at various speeds.

 The picture may show noise when playing at high speed in reverse.

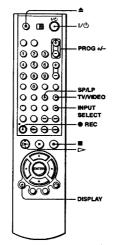
 While playing a tape, you can display the setup mean, but the remote commander's function switches to DVD automatically. Press SET UP to exit the menu.

 Step disc playback while playing back a video.

 The picture returns to normal playback from slow motion in reverse in 30 seconds.

Before you start..

- Turn on the DVD-VCR and your TV.
 Switch the input selector on your TV so that the signal from the player appears on the TV screen.
- Set TV / DVD-VIDEO to DVD-VIDEO, then press SELECT VIDEO to control the VCR (page 9).
- To record from a decoder, turn it on.
- Make sure the tape is longer than the total recording time.



Insert a tape with its safety tab in place.



40 Recording TV programmes

In order to get an accurate remaining time indication, be sure "Select. Cassette" in the "REGLAGE DE LA FONCTION VIDEO" menu is set according to the tape type you use (see page 105).

Tape Length	SP	LP
E-180	3 hrs	6 hrs
E-240	4 hrs	8 hrs
E-260	4 hrs 20 mins	8 hrs 40 mins
E-300	5 hrs	10 hrs

To watch another TV programme while recording

Press TV/VIDEO to display "TV" in the display window



2 Select another channel on the TV.

To watch a DVD while recording

- Press SELECT DVD to control the DVD player.
- 3 Press ⊳.

The disc tray closes and the DVD player starts playback. The TV screen will automatically change to the DVD playback screen.

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on the tape again, cover the tab hole with adhesive tape.



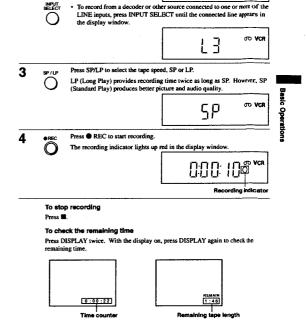
- Tips

 To select a programme position, you can use the number buttons on the remote commander. For two-dight numbers, for example, press 2 and 3 to select "PR 23".

 If you connect additional equipment to a LINE connector or jack, you can select the input signal using the INPUT SELECT or PROG 47- buttons.

 The DISPLAY information appears on the TV screen indicating information about the tape, but the information will not be recorded on the tape.

 If you do not want to watch TV while recording, you can turn off the TV. When using a decoder, make sure to leave it on.



To record a normal channel, press PROG +/- until the programme position number you want appears in the display window.

er you want appears in the display wind

PROG/ TRACKING

- Notes

 If a tape has portions recorded in both PAL (SECAM, MESECAM) and NTSC systems, the time counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two video systems.

 You cannot watch a Canal Plus programme while recording another Canal Plus programme. When you insert a non-standard commercially available tape, the remaining time may not be correct.

- torriex.

 The remaining time is intended for rough measurement only.

 About 30 seconds after the tape begins playback, the tape remaining time will be displayed.

 You cannot record a DVD to a VCR tape.

 To watch a TV programme during video recording, stop dise playback.

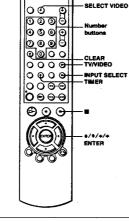
rding TV programmes 41

The ShoView system is the feature that simp Diffeprogramming the VCR to make time a recodings. Just enter the ShowView nourabor lade in the TV programme guide. The date inner, and programme programme are set automatically. You can press total of six programmes, incl a Joington made with other timer meet Profs.

Before by start.

- Circekhat the DVD-VCR clock is set to the corect time.
- Talm othe DVD-VCR and your TV.
 Set you TV to the video channel so that the signifrom the player appears on the T V scren.
- Set TV DVD-VIDEO to DVD-VIDEO, then pres SELECT VIDEO to control the V CR (age 9).

 When uing a decoder, turn it on.
- Im sert stape with its safety tab in place.
 MI ake are the tape is longer than the total



6 m 6

Press TIMER

The "OPTIONS PROG." menu appears.



44 Recording 1/ programmes using the ShowView® system (SLV-D950B only)

If you want to change the date, tape speed and the VPS/PDC setting:

1 Press +/+ to select the item you want to

change.

2 Press ♦/♦ to reset it.

• To record the same programme every day or the same day every week, see "Daily/weekly recording" on page 46.

• To use the VPS/PDC function, set "V/P" to "Oui". For details about the VPS/PDC function, see "Timer recording with VPS/PDC signals" on nace 46.

Press ENTER to confirm the setting.

Press ENTER to confirm all settings.

8

Press I/O to turn off the DVD-VCR.

The \bigoplus_{ν} indicator appears in the display window and the VCR stands by for

To record from a decoder or other source, leave the connected equipment switched on.

To stop recording

To stop the DVD-VCR while recording, press SELECT VIDEO and then press

In step 5 above, press \bullet to select the recording pattern. Each time you press \bullet , the indication changes as shown below. Press \bullet to change the indication in reverse order.

today \to JOUR (Monday to Sunday) \to S-SA (every Saturday) \to S-DI (every Sunday) \to 1 month later \to (dates count down) \to today

Timer recording with VPS/PDC signals

Some broadcast systems transmit VPS or PDC signals with their TV programme:
These signals ensure that your timer recordings are made regardless of broadcast delays, early starts, or broadcast interruptions.

To use the VPS/PDC function, set "V/P" to "Oui" in step 5 above. You can also use the VPS/PDC function for a source connected to one or more of the LINE inputs.

2 Press ♦/♦ to select "ShowView", then press ENTER.



0

If you make a mistake, press CLEAR and re-enter the correct number.

You can also press + to delete the last entered



Press ENTER.

The date, start and stop times, programs position, tape speed and VPS (Video Programme System)/PDC (Programme Programme System)/PDC (Programme Delivery Control) setting appear on the TV

screen.

If "--" appears in the "PR" (programme) column (this may happen for local broadcasts), you have to set the appropriate programme position manually.

Press #/# to select the desired programme position.

To record from a decoder or other source connected to one or more of the LINE inputs, press INPUT SELECT to display the connected line in the "PR" position.

You will only have to do this operation once for the referred channel. The VCR will then store your setting. If the information is incorrect, press CLEAR to cancel the setting.

mmes using the ShowView® system (SLV-D9508 only) 45

Press TV/VIDEO to display "TV" in the display window

σο VCF

2 If your TV is connected to the VCR using A/V connections, set the TV to the TV's aerial input; if not, skip this step.

3 Select another channel on the TV.

Tips
• To set the channel, you can also use the \(\phi\) or number butions.
• If the O indicator appears, this means that the VCR is currently re
• You can also do the following tasks while the VCR is recording:

Reset the counter (page 39).
 Display tape information on the TV screen (page 41).

In step 5 above, press * to select "Auto". When you are recording a programme in the SP mode and the remaining tape length becomes shorter than the recording time, the recording tape speed is automatically changed to the LP mode. Note that some noise will appear on the picture when the tape speed is changed. To operate this function correctly, the "Select. Cassette" setting in the "REGLAGE DE LA PONCTION VIDEO" menu must be accurate (see page 105).

Tips

• To set the line input video source, you can also use the INPUT SELECT button.

• You can set the extended time for the ShowView setting by 10, 20, 30, 40, 50, or 60 minutes. Set "Brendre ShowView" in the "REGLAGES UTILISATEUR" menu to the desired extended time on page 110.

or cancel the programme setting, see "Checking/changing/cancelling timer

If the VPS/PDC signal is too weak or the broadcasting station failed to transmit VPS/PDC signals, the VCR will start recording at the set time without using the VPS/PDC function.

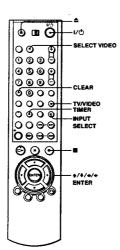
The ② indicator flashes in the display window when you press I/② with no tape inserted.

Recording TV programmes using the timer

You can preset up to six programmes at a

Before you start...

- Check that the DVD-VCR clock is set to
- Turn on the DVD-VCR and your TV.
- Switch the input selector on your TV so that the signal from the player appears on the TV screen.
- Set TV / DVD-VIDEO to DVD-VIDEO. then press SELECT VIDEO to control the VCR (page 9). When using a decoder, turn it on.
- Insert a tape with its safety tab in place.
 Make sure the tape is longer than the total
- If the DVD player is in play mode, you cannot display the setup menu. Stop the DVD playback.



48 Recording TV programmes using the timer



Press ENTER to confirm all settings.

6

Press I/O to turn off the DVD-VCR.

The $\ensuremath{\mathfrak{O}}$ indicator appears in the display window and the VCR stands by for recording. To record from a decoder or other source, leave the connected equipment switched on.

To stop the DVD-VCR while recording, press SELECT VIDEO and then press ■.

Daily/weekly recording

In step 3 above, press \$\(\phi\) to select the recording pattern. Each time you press \$\(\phi\), the indication changes as shown below. Press \$\(\phi\) to change the indication in reverse order. today \to JOUR (Monday to Sunday) \to S-SA (every Saturday) \to S-DI (every Sunday) \to 1 month later \to (dates count down) \to today

To use the Auto Tape Speed function

In step 3 above, press \(\ \) to select "Auto". When you are recording a programme in the SP mode and the remaining tape length becomes shorter than the recording time, the recording tape speed is automatically changed to the LP mode. Note that some noise will appear on the picture when the tape speed is changed. To operate this function correctly, the "Sélect. Cassette" setting in the "REGLAGE DE LA PONCTION VIDEO" menu must be accurate (see page 105).

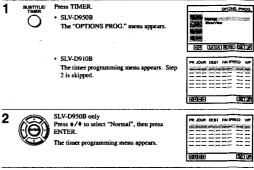
- Tipe
 To set the line input video source, you can also use the INPUT SELECT botton.
 To check, change, or cancel the programme setting, see "Checking/changing/cancelling tir settings" on page 56.

- Notes

 When setting the timer with VPS/PDC signals, enter the start times exactly as indicated in the TV programme guide. Otherwise, the VPS/PDC function will not work.

 If the VPS/PDC signal is too weak or the broadcasting station failed to transmit VPS/PDC signals, the VCS will start recording at the set time without using the VPS/PDC function.

 The ② indicator flashes in the display window when you press I/② with no tape inserted.



(B) 3

Set the date, start and stop times, programme position, tape speed and VPS/PDC function:

1 Press + to select each item in turn.
2 Press +/+ to set each item. To correct a setting, press \bullet to return to that setting and reset.

(H)(H)

- To record the same programme every day or the same day every week, see "Daily/weekly recording" on page 50.
 To use the VPS/PDC function, set "V/P" to "Oui." For details about the VPS/PDC function, see "Timer recording with VPS/PDC signals" on page 46.

0

To record from a decoder or other source connected to one or more of the LINE inputs, press INPUT SELECT to display the connected line in the "PR" position.

Press ENTER to confirm the setting.

To enter another setting, press 4/4 to select the next row and repeat step 3. Press CLEAR to cancel the setting.

Recording TV programmes using the timer $\left|49\right|$

To watch another TV programme after setting the timer

Press TV/VIDEO to display "TV" in the display window

Ð

- 2 If your TV is connected to the VCR using A/V connections, set the TV to the TV's aerial input; if not, skip this step.

 3 Select another channel on the TV.

- Tips

 To the channel, you can also use the */* or number buttons.

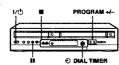
 If the O indicator appears, this means that the VCR is currently

 You can also do the following tasks while the VCR is recording:

 Reset the counter (page 39).

 Display tape information on the TV screen (page 41).

The DisTimer function allows you to make time * reordings of programmes without turning on y Out'ly. Set the recording timer to record up to si * Pigrammes that will be broadcast within a monthsing DIAL TIMER. The recording



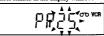
- TLEET 4 the DVD-VCR.
- W herusing a decoder, turn it on.
- In:Sett tape with its safety tab in place. Make sure the tape is longer than the total tirme.
- Steep to DVD-VCR.

1	EXAL TIMER	Press ⊕ DIAL TIMER.	
•		DATE indicator appears and the cu	urrent date flashes in the display windo
		If the date and time are not set, DA and time, see "To set the clock" on	AY indicator will appear. To set the dat page 55.
			ADATE VO
2	ÉNAL TIMER	Turn O DIAL TIMER to set the re	ecording date.
_	400	•	T - DATE OF VO

52 Recording TV programmes using DIAL TIMER (SLV-D950B only)



ONAL TIMER Press O DIAL TIMER.



OWN TIMER Turn O DIAL TIMER to set the programme position nur



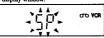
To record from a source connected to the LINE-1 connector, LINE-2 IN jacks or LINE-3 connector, turn ② DIAL TIMER or press INPUT SELECT to display "L1", "L2" or "L3".

OTO VCR

COAL TIMER Press @ DIAL TIMER.



The current tape speed flashes in the display window



Turn O DIAL TIMER to set the tape spee



11 ODM. TIMER Press © DIAL TIMER to complete the setting. "OK" appears in the display window for about five seconds.

The timer indicator appears in the display window and the VCR stands by for recording. When using a decoder, leave it on.

To return to the previous step

To return to the previous step, press the PROGRAM + and - buttons on the unit at the same time during any of the Dial Timer settings.

COMMITMER Press & DIAL TIMER to set the start time.



"START" and the next quarter hour increment appear altern



Obel times Turn O DIAL TIMES to set the rec ording start time

You can set the recording start time in 15 minute intervals or adjust the time in one minute intervals by pressing the PROGRAM +/- buttons on the unit

ŌŌ

ODAL TIMER Press & DIAL TIMER to set the stop time.



570P | [] [] [] ^{co vca}

COMLINER Turn C DIAL TIMER to set the recording stop time.



You can set the recording stop time in 15 minute intervals or adjust the time in one minute intervals by pressing the PROGRAM +/- buttons on the unit

10: 18 ^{350 VCR}

Recording TV programmes using DIAL TIMER (SLV-D950B only) $\Big|\,53\,$

- 1 Hold down ② DIAL TIMER so that DAY indicator appears in the display window. However, if the clock has already been set, the current setting appears.
 2 Turn ② DIAL TIMER to set the day.

- Turn and press © DIAL TIMER.

 Turn and press © DIAL TIMER to set the month and then the year.

 After you set the year, "CLOCK" appears in the display window.

 Turn and press © DIAL TIMER to set the hour and minute.
- 6 When you have finished setting the time, press © DIAL TIMER to start the clock.

- Tips

 To cancel a Dial Timer setting, press any button other than ${\mathfrak S}$ DIAL TIMER or PROGRAM 4-- on the unit or any button on the remote while you are making the setting.

 To check, change, or cancel the programme setting, see "Checking/changing/cancelling timer settings" on page 56.

- Notes

 If six programmes have already been set using the ShowView system or the manuscitting, "FULL" appears in the display window for about five seconds.

 If you set the clock using the Auto Clock Set feature, the clock will adjust itself is incoming time signal negardless of adjustments made with DIAL TIMER. Be sm set Auto Clock Set correctly.
- set Auto Locks Set correctly.

 If you are setting the clock for the first time or "0:--" appears in the display window, you cannot set the clock to February 29° using DIAL TIMER. Please use the Auto Clock Set feature to set the VCR to this day.

 The timer indicator flashes in the display window when you complete the setting in step 11 on page 54 with no tape inserted.
- When the setting time is incorrect, "Error" appears in the display window in step 11. Set the timer again from step 1.

About the Demonstration Mode

The Dial Timer function has a Demonstration Mode that allows the user, such as a salesperson, to enter more than six examples of timer settings when demonstrating the use of DIAL TIMER. It cancels the FULL notice which appears if six programmes have already been set. Do not use the Demonstration Mode for making timer recordings. Doing so may cause the settings to be inaccurate.

To activate the Demonstration Mode

Press \blacksquare on the unit while turning \odot DIAL TIMER. "DEMO" appears in the display window for a few seconds.

To cancel the Demonstration Mode

Turn the power off and unplug the mains lead. Although the Demonstration Mode is cancelled, the timer settings entered while using the Demonstration Mode will remain. Be sure to manufully cancel the timer settings before you use DIAL TIMER or any other timer method after reconnecting the mains lead (page 56).

Checking/changing/cancelling timer settings 🖼

Before you start...

- Check that the DVD-VCR clock is set to the correct time.
- Turn on the DVD-VCR and your TV.
- Switch the input selector on your TV so that the signal from the player appears on the TV screen.

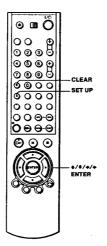
- the TV screen.

 Set TV / DVD-VIDEQ to DVD-VIDEO, then press SELECT VIDEO to control the VCR (page 9).

 When using a decoder, turn it on.

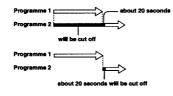
 Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.

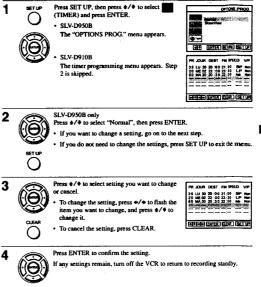
 If the DVD playbac is in play mode, you cannot display the setup menu. Stop the DVD playback.



When the timer settings overlap

The programme that starts first has priority and the second progrecording only after the first programme has finished. If the prosame time, the programme listed first in the menu has priority.

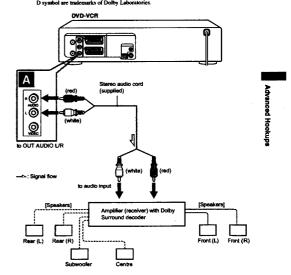




A/V Receiver hookup DVD VCD CD DATA-CD VHS

You can enjoy the Dolby Surround effects only when playing Dolby Surround rmulti-channel audio (Dolby Digital) discs.

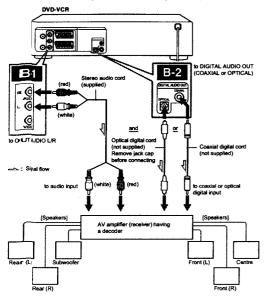
red under license from Dolby Labora are trademarks of Dolby Laboratories



continued

Use this hookup if your AV receiver has a Dolby Digital, MPEG audior DTS+ decoder, a digital input jack and 6 speakers
This connection will allow you to use the Dolby Digital, MPEG audio or DTS decoder function of your AV amplifier (receiver). You are not able to enjoy the aurround sound effects of this player. You must make connections using 132 and 132.

* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc



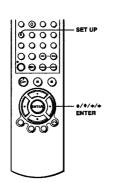
After you have completed the connection, be sure to set "Doby Digital" to "Doby Digital" and "DTS" to "Quir" in "OPITIONS AUDIO" menu (page 62). If your AV amplifier (receiver) has an MPEG audio decoder function, set "MPED" in "OPITIONS AUDIO" menu (page 62). Otherwise, no sound or a loud noise will come from the speakers.

60 AV Receiver hookup

DVD Settings and Adjustments

Audio Setup 1000

"Options Audio" allows you to set the sound according to the playback and connection conditions.



Press SET UP when the DVD player is in stop mode, then press 4/4 to select (DVD) and press ENTER.





Press ♦/♦ to select "Options Audio", then press ENTER





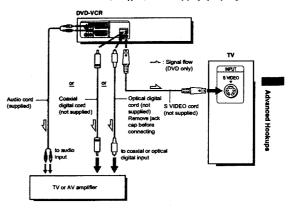
Press */* to select the setup item from the displayed list:
"Dolby Digital", "MPEG", "DTS", "Audio DRC", or "48kHz/96kHz
PCM".

S-Video hookup DVD VCD DATA-CD

Make audio connections using the OUT AUDIO L/R jacks or DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jacks when you use S-VIDEO hookup.

Use this hookup if your TV has an S VIDEO input jack

Connect an \$ VIDEO cord (not supplied). You will enjoy high quality images.



- Set "DVD S-Video Out" to "Oui" in the "REGLAGE DE L'ECLAN" menu (page 65) to view pictures from the S-VIDEO jack.

 The connection using S-VIDEO OUT jack is only for the DVD player.



Press SET UP to exit the menu.

Dolby Digital

Selects the type of Dolby Digital signal.

The default setting is indicated in bold pr

D-PCM	Select this when the player is connected to an audio component lacking a built-in Dolby Digital decoder.
Dolby Digital	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.

• MPEG

Selects the type of MPEG audio signal.

The default setting is indicated in bold print

PCM	Select this when the player is connected to an audio component lacking a built-in MPEG decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

• DTS

Selects whether or not to output DTS signals. The default setting is indicated in bold print.

Non	Select this when the player is connected to an audio component lacking a built-in DTS decoder.
Oul	Select this when the player is connected to an audio component with a built-in DTS decoder.

DVD Settings and Adjust

62 Audio Setup

Added DRC (Cymanic Natige Common)
Makes the sound clear when the volume is turned down when playing a DVD that conforms to "Audio DRC". This affects the output from the following jacks:

OUT AUDIO UR jacks

DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack only when "Dolby Digital" is set to "D-PCM".

The default setting is indicated in bold print.

Standard	Normally select this position.
TV	Makes the low sounds clear even if you turn the volume down.

48kHz/96kHz PCM

Selects the sampling frequency of the audio signal. The default setting is indicated in bold print.

48kHz/16bit	The audio signals of DVD VIDEOs are always converted to 48 kHz/16 bit.
96kHz/24bit	All types of signals including 96 kHz/24 bit are output in their original format. However, if the signal is encrypted for copyright protection purposes, the signal is only output as 48 kHz/16 bit.

- NOBBA

 If you select the surround setting while playing a DVD, the player does not output the following signals from the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jack.

 Doby Digital signals (when you set "Dolby Digital" to "D-PCM" in "OPTIONS AUDIO" menu)

 MPEG audio signals
- If you connect a component that does not conform to the selected audio signal, a loud noise (or no sound) will come out from the speakers, affecting your ears or causing the speakers to be damaged.
- be damaged.

 Even if you set "48kHz/96kHz PCM" to "96kHz/24bit", the sampling frequency is converted to 48 kHz/16 bit when a "5URROUND" mode (page 33) is selected.

 The analog and osignals from AUDIO OUT 1.Pg is lack are not affected by "48kHz/96kHz PCM" setting and keep their original sampling frequency level.

64 Audio Setup



Press */* to select an item.

5 O Press SET UP to exit the menu.

• Type TV

Selects the aspect ratio of the connected TV (4:3 standard or wide). The default setting is indicated in bold print.

4:3 Letter Box	Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 Pan Scan	Select this when you connect a 4:3 screen TV. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.
16:9	Select this when you connect a wide-screen TV or a TV with a wide mode function.







• DVD LINE! RVB Out

Selects the method of outputting video signals from the LINE-I (EURO AV) jack on the rear panel of the player.

The default setting is indicated in bold print.

Non	Select this to not output RGB signals.
Oul	Select this to output RGB signals.

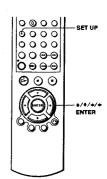
Selects whether or not to output S video signals from the S-VIDEO OUT jack on the rear panel of the player.

The default setting is indicated in bold print.

Oui	Select this when the player is connected to a TV with S VIDEO input jack.
Non	Select this when the player is connected to a TV lacking S VIDEO input jack.

Screen Setup mo

"Réglage de L'écran" allows you to set the screen according to the playback and



Press SET UP when the DVD player is in stop mode, then press ◆/◆ to select (DVD) and press ENTER.



Press ♦/♦ to select "Réglage de L'écran", then press ENTER.



3

Press ♦/♦ to select the setup item from the displayed list: "Type TV", "DVD LINE1 RVB Out" or "DVD S-Video Out".

continued

Screen Setup 65

- Notes

 Playback settings stored in the disc take priority over the "REGLAGE DU DVD" memus settings and not all the functions described may work.

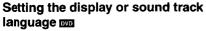
 Depending on the DVD, "4:3 Letter Box" may be selected automatically instead of "4:3 Pan Scan" or vice versa.

 The connection using S-VIDEO OUT jack is only for the DVD player.

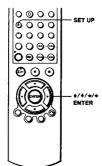
 The connection using S-VIDEO OUT jack is only for the DVD player.

 When you select "Out" in the "DVD LINEI RVB Out" setting, "DVD LINEI RVB Out" is set to "Non" automatically.

DVD Settings and Adjustments



You can set various languages for the disc's menu, sound track or subtitle.



Press SET UP when the DVD player is in stop mode, then press •/• to select (DVD) and



Press ♦/♦ to select "Réglage de la langue", then press ENTER.

The "REGLAGE DE LA LANGUE" menu



3

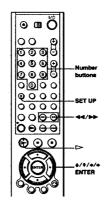


Press •/• to select the language setup item from the displayed list: "Menu DVD", "Audio", or "Sous-Titre".
Then press ENTER.

68 Setting the display or sound track language

Parental Control (limiting playback by children)

Playback of some DVDs can be limited according to a predetermined level such as the age of the users. The parental control



Press SET UP when the DVD player is in stop mode, then press \$/\$ to select (DVD) and press ENTER.





70 Parental Control (limiting playback by children)

Press ♦/♦ to select the desired language, then press ENTER.

· LANGUE DE MENU DVD You can select the desired language for the



LANGUE DE LA BANDE SON Switches the language of the sound track. When you select "Originale", the language given priority in the disc is selected.



· LANGUE DES SOUS-TITRES

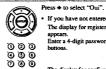


SET UP

Press SET UP to exit the menu.



Setting the display or sound track language $\left|69\right|$



· If you have not entered a password



00-00 REDIRE



8

Adjustments



Press ♦/♦ to select the level you want, then

The options are as follows. Level 8 (Adulte) \longleftrightarrow Level 7 \longleftrightarrow Level 6 \longleftrightarrow Level 5 \longleftrightarrow Level 2 ← Level 1 (Tout Public)



The lower the value, the stricter the limitation

Press SET UP to exit the menu.

ntal Control (limiting playback by children) | 71

- Select "Modif. Code Secret" in step 4 on page 71.
 The display for entering a new password appears.
 Enter a new 4-digit password using the number bu
 The display for confirming the password appears.
- 3 Re-enter the new password.

To turn off the Parental Control function

Set "Utiliser le Code" to "Non" in step 3 on page 71.

To play a disc for which Parental Control is set

- Insert the disc, then press .
 The display for entering your password appears.
 Enter your 4-digit password using the number buttons. The player starts playback.

If you forget your password

- 1 Remove the disc and turn off the DVD-VCR.
- 2 Turn on the DVD-VCR again with no disc in the unit.
- 3 Hold down ◀◀ and ▶► on the front panel simultaneously for 5 seconds.

 "Reset OK" appears on the screen.

 4 Turn off the DVD-VCR.
 The password is cleared.
- 5 To create a new password, follow step 3 on page 71.

- Notes

 When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.

 All the ratings higher than the level you select will be blocked.

 Write your password down and keep it in a safe place in case you forget it.

72 Parental Control (limiting playback by children)

3 Press ENTER.

To turn off the DVD's menu

Press

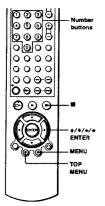
Depending on the DVD, you may not be able to use the TOP MENU button

DVD Additional Operations

Using the DVD's menu on

A DVD is divided into long sections of a picture or a music feature called "titles". When you play a DVD which contains several titles, you can select the title you want using the TOP MENU button.

When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using the MENU button



Press TOP MENU or MENU.

The disc's menu appears on the TV screen.

The contents of the menu vary from disc to disc.



Press */*/*/ to select the item you want to play or change.

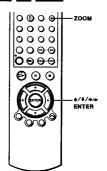
continued

Š

Using the D/D's menu | 73

Zooming into a scene DVD NCD DATA-CD

You can zoom into a scene during playback or still mode. To zoom into a JPEG image, see "Playing JPEG image files" on page 89.



Press ZOOM.



8

2

Press 4/4/4/4 to move "¾" to the position where you want to 200 m in.

3

Press ENTER repeatedly to change the magnification.

Each time you press the button, the magnification changes as shows below

2× → 4× → 2× → normal magnification

- You cannot use 4× magnification when you play VIDEO CDs.
 The zoom function may not work depending on the DVD.

74 Using the DVD's menu

- Surround effects cannot be obtained for DTS or linear PCM.

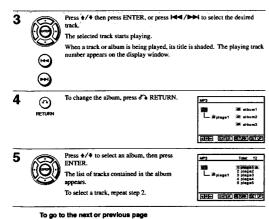
 When the playing signal does not contain a signal for the rear s will be difficult to hear.
- When you activate the surround effect, turn off the surround setting of the connected TV or amplifier (receiver).

- amplifier (receiver).

 Make sure that your listening position is between and at an equal distance from your speakers, and that the speakers are located in similar surroundings.

 If you use the DisTIFIAL AUIDIO DUIT (OPTICAL) or COAXIAL) jack and set "Dolby Digital" to "Dolby Dig

84 Virtual surround setting



To return to the previous display

Press & RETURN.

Press , then press & RETURN repeatedly.

- Now on the letters in the alphabet and numbers can be used for album or track names. Anything class is displayed as an assertik.

 Up to 8 alphanumeric characters can be displayed for album or track names.

 103 tags cannot be displayed.

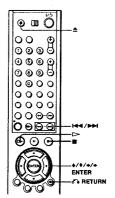
About MP3 audio tracks

You can play MP3 audio tracks on CD-ROMs, CD-Rs, or CD-RWs. However, the discs must be recorded according to ISO9660 level 1, level 2, or Joliet format for the player to recognize the tracks. You can also play discs recorded in Multi Session.

See the instructions of the CD-R/RW device or recording software (not supplied) for details on the recording format.

Playing an MP3 audio track made

You can play back DATA CDs (CD-ROMs/ CD-Rs/CD-RWs) recorded in MP3 (MPEG1 Audio Layer 3) format.



(2)

When you load a DATA CD which contains MP3 audio tracks and JPEG image files, "Sélectionnez le type de media" menu appears.

If you load a DATA CD which contains only MP3 audio files, the MP3 display appears. Then you can skip step 2.



Press ♦/♦ to select "MP3", then press ENTER.



continued

Playing an MP3 audio track 85

To play a Multi Session CD

This player can play Multi Session CDs when an MP3 audio track is located in the first session. Any subsequent MP3 audio tracks, recorded in the later sessions, can also be played back. When audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.

- If you put the extension "MP3" to data not in MP3 format, the player cannot recognize the data properly and will generate a loud noise which could damage your speaker system. The player cannot play audio tracks in MP3PRO format.

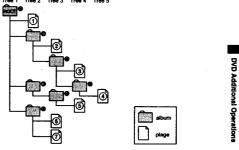
 This player supports MP3 audio tracks recorded with a hit rate of 128 kbps and a sampling frequency of 44.1 kHz. Attempting to play MP3 audio tracks recorded with different specifications may result in loud noise, sound skipping or speaker damage.

 Depending on the disc, playback may take some time to start.

The Playback order of MP3 audio tracks

The playback order of albums and tracks recorded on a DATA CD is as follows. · Structure of disc contents

Tree 1 Tree 2 Tree 3 Tree 4 Tree 5



When you insert a DATA CD and press ▷, the numbered tracks are played sequentially, from ⊕ through ⊕. Any sub-albums/tracks contained within a currently selected album take priority over the next album in the same tree. (Example: ⑥ contains ⑥ so ⑥ is played before ⑥.)

When you press d^* RETURN and the list of MP3 albums appears (page 36), the albums are arranged in the following order: $\bigcirc \longrightarrow \bigcirc \longrightarrow \bigcirc \longrightarrow \bigcirc \longrightarrow \bigcirc \longrightarrow \bigcirc$. Albums that do not contain tracks (such as album \bigcirc) do not appear in the list.

Playing an MP3 audio track | 87

• If you add numbers (01, 02, 03, etc.) to the front of the track file names, the tracks will be played in that order.

• A disc with many trees takes longer to start playback. Some discs with many trees cannot be played back.

- Depending on the software you use to create the DATA CD, the playback order may differ from the illustration above.
- from the illustration above.

 The playback order above may not be applicable if there are more than a total of 200 albums and tracks in the DATA CD.

 The player can recognize up to 100 albums (the player will count just albums, including albums that do not contain MP3 audio tracks). The player will not play any albums beyond the first 100 albums. Of the first 100 albums, the player will play no more than a combined total of 200 albums and tracks.

88 Playing an MP3 audio track

Θ



To display the selected image Press ENTER.
 The selected image number appears in the



display window. To display the next/previous image, press



To play the Slide show



Press E>.
You can also play the Slide show using the menu on the selected image. For details, see "To enjoy the Slide show" on page 91.

2 Press */* to select the desired playing speed on the "Intervalle" menu, then press ENTER. Slide show starts from the selected image.



To rotate an image

- 1 Press */*/*/* to select an image in the "Album" display, then press ENTER.
 2 Press */* to select "um", then press ENTER. Each time you press ENTER, the image turns clockwise by 90°.



To zoom in an image

- 1 Press */*/*/* to select an image in the "Album' display, then press ENTER.
 2 Press */* to select "##", then press ENTER.
 "##" appears.
 3 Press */*/*/* to move "##" to the position whe you want to zoom in.

 Dess ENTER preparatelly to change the

- you want to zoom in.

 Press ENTER repeatedly to change the magnification. Each time you press ENTER, the magnification changes as shown below.

 2x

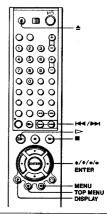
 normal magnification



la a

Playing JPEG image files DATAKED

You can play JPEG image files on DATA CDs (CD-ROMs/CD-Rs/CD-RWs).



(2)

(E)

2

Press and place a DATA CD on the disc tray, then press \(\textcal{\pi}\) to close the tray.

When you load a DATA CD which contains MP3 audio tracks and JPEG image files, "Sélectionnez le type de media" menu appea

If you load a DATA CD which contains only JPEG image files, the "Album" display appears. Then you can skip step 2.

Press ♦/♦ to select "JPEG", then press The "Album" display will appears.

If you do not press ENTER after selecting a media type, the selected media will be automatically played.

Abum

1 MPS 2 JPEG HE ENTER

continued

Operations

Playing JPEG image files | 89

- Press 4/*/*/* to select an image in the "Album"
- display, then press ENTER.

 Press */* to select " * ", then press ENTER.
 The "Intervalle" menu appears.
- 3 Press +/+ to select the desired playing speed, then press ENTER.
 Slide show starts.



To turn on/off the menu in the single image display

Press DISPLAY in the single image display.

To return to the "Album" display

To enjoy the Slide show

Press DISPLAY to turn on the menu and press */* to select " ", then ress ENTER. You can also use MENU button to return to the "Album" display. Press !** repeatedly to return to the first "Album" page.

To return to the "Sélectionnez le type de media" menu

Press twice, then press TOP MENU.

- Notes

 Slide show can play in only one direction.

 Slide show.

 You cannot rosts or zoom in the image during Slide show.

 If you select "We" in the rosted image display, the images in the "Album" disply will also be rotated. Correct the rotation in the single image display.

About JPEG image files

You can play JPEG image files on CD-ROMs, CD-Rs, or CD-RWs. Hower, the discs must be recorded according to ISO9660 level 1, level 2, or Joliet fonat for the player to recognize the files. You can also play discs recorded in Multi Session.

See the instructions of the CD-R/RW device or recording software (not suplied) for details on the recording format.

To play a Multi Session CD

This player can play Multi Session CDs when an IPEG image file is located in the first session. Any subsequent IPEG image files, recorded in the later sessions, can also be played back. When audio tracks and images in music CD format ovideor CD format are recorded in the first session, only the first session will be playet bace.

ontanue

TIp

If you add numbers (01, 02, 03, etc.) to the front of the file names, the files will be played in that order.

- Notes

 The system can play the extension "JPG" or "JPEG".

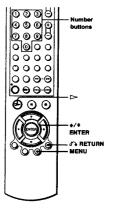
 Some CD-Rs or CD-RWs cannot be played on this system depending on file format.

 If you add the extension "JPG" or "JPEG" to data not in JPEG format, the display will be blank.
- Depending on the disc or the size of image files, playback may take some time to start.

Playing VIDEO CDs with "MENU OUI/NON" functions vo

The PBC (Playback control) function allows you to search and perform other operations interactively. PBC playback follows a selection menu displayed on your TV screen.

The "MENU OUI" function is the PBC



Start playing a VIDEO CD with "MENU OUI". The menu for your selection appears.

Press ♦/♦ to select the item number you want.

You can also use the number buttons to select the item number and track

92 Playing JPEG image files

Press ENTER.

4

Follow the instructions in the menu for interactive operations. Refer to the instructions supplied with the disc, as the operating procedure may differ depending on the VIDEO CD.

To return to the menu

Press & RETURN.

To play using "MENU NON"

Press MENU to select "MENU NON".
When "MENU NON" is selected, the DVD player starts continuous play. You cannot play still pictures such as a menu.
To return to "MENU OUT", press MENU to select "MENU OUT".

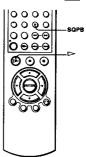
TIp

• Depending on the VIDBO CD, "Press ENTER" in step 3 may appear as "Press SELECT" in the instructions supplied with the disc. In this case, press ▷.

Playing a tape with SQPB function was

The SQPB (Super VHS Quasi Playback) function is only for playing a Super VHS format tape.

VCR Additional Operations



Playing VIDEO CDs with "MENU OUI/NON" functions | 93

Insert a Super VHS format tape. 1 2 Press > 9

3 ANGLE/ SQPB \circ

Press SQPB to start SQPB.

Notes

You cannot use the SQPB function for recording.

The playback display will be distorted if you use the SQPB function with a normal VHS format tage.

When you eject the tage, the VCR automatically returns to normal mode.

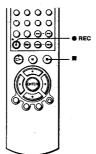
Playback of tages recorded in EP (Extended Play) mode on an NTSC system is not

94 Playling VIDEO CDs with "MENU OUI/NON" functions

ζŖ

Quick Timer Recording was

After you have started recording, you can have the VCR stop recording automatically after a specified duration.



While recording, press • REC.

[]:][] © vcr

Press REC repeatedly to set the duration time

In SP mode

Each press advances the time in increments of 30 minutes.

→ 0:30 → 1:00 ----→ 4:00 → 4:30 → Normal record

In LP mode

Each press advances the time as shown below.

0:30 → 1:00 - · · · → 8:00 → 9:00 → Normal recording

The tape counter decreases minute by minute to 0:00, then the VCR stops

96 Quick Timer Recording

Recording stereo and bilingual programmes was

In the ZWEITON (German stereo) system

This VCR automatically receives and records stereo and bilingual programmes bas on the ZWEITON system. When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To select bilingual sound while recording

Press AUDIO to select the sound you want.

To listen to	On-screen display	Display window
Main	PRINCIPALE	STEREO
Sub	SECONDAIRE	STEREO
Main and sub	PRINCIP/SEC.	STEREO
Standard sound*	MONO	STEREO

* Usually the main channel heard from both the left and right in bilingual progra-

To select stereo programme while recording

To listen to	On-screen display	Display window
Stereo	STEREO	STEREO
Left channel	CANAL G	STEREO
Right channel	CANAL D	STEREO
Standard sound*	CANAL G + CANAL D	STEREO

Usually the mixed sound of left and right channels in stereo progra-

In the NICAM system

This VCR receives and records stereo and bilingual programmes based on the NICAM system (NICAM appears on the TV screen). When a stereo or bilingual programme is received, the STEREO indicator appears in the display window. To record a NICAM programme, "NICAM" in the "REGLAGES UTILISATEUR" menu should be set to "Oui" (initial setting). To check the menu setting, see page 110 for desirile.

for details.

Press • REC repeatedly to set a new duration time.

To cancel the duration

Press \blacksquare REC repeatedly until the $\textcircled{\bullet}$ indicator disappears and the VCR returns to normal recording mode.

Press .

Note

You cannot display the current tape time in the display window when setting the recording duration time.

Quick Timer Recording 97

To select the sound while recording

Press AUDIO to select the sound you want.

Stereo program

To listen to	On-screen display	Display wintow
Stereo	NICAM, STEREO	STEREO
Left channel	NICAM, CANAL G	STEREO
Right channel	NICAM, CANAL D	STEREO
Left and right channels*	NICAM, CANAL G + CANAL D	STEREO

^{*} Usually the mixed sound of left and right channels

To listen to	On-screen display	Display wintow
Main	NICAM, PRINCIPALE	STEREO
Sub	NICAM, SECONDAIRE	STEREO
Main and sub	NICAM, PRINCIP/SEC.	STEREO
Standard sound*	NICAM, MONO	STEREO

Selecting the sound during Hi-fi playback

To listen to	On-screen display	Display wintow
Stereo	STEREO	STEREO
Left channel	CANAL G	STEREO
Right channel	CANAL D	STEREO
Mix sound*	MIX	STEREO
Mono sound	MONO	No indicator

The mixed sound of left and right channels, and the normal mono audio track

beunk Inc

98 Recording stereo and bilingual program

How sound is recorded on a video tape

The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto tmain track along with the picture. Monaural sound is recorded onto the normal a track along the edge of the tape.

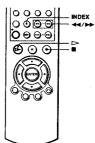
Usually mixed left/right channels

- Notes

 To listen to playback sounds in stereo, you must use the PERITEL or AUDIO OUT

Searching using index function MIS

The VCR automatically marks the tape with an index signal at the point where each recording begins. Use these signals as references to find a specific recording.



To find a specific recording by scanning (Index scan)

1 Insert an indexed tape into the tape compartment. Press INDEX, then press ◄◄/▶▶. The VCR starts scanning each recording for five seconds in the corresponding direction. 2 Š NOEX \odot \odot 3 Press \triangleright to start playback when you find the desired point.

Searching using index function 101

100 Recording stereo and bilingual programmes

"To search a specific recording (Index search)

1 Insert an indexed tape into the VCR. 2 Press INDEX, then press ◆◆/▶▶ twice. To search ahead, press ➤➤ twice. (1) \odot

Press ◀◀/▶▶ depending on the direction where your desired programme is located. 3 \odot

The VCR starts searching, and playback starts automatically from that

To stop searching Press .

Adjusting the picture (tracking)

Adjusting the tracking

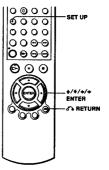
Although the VCR automatically adjusts the tracking when playing a tape, distortion may occur if the recording is in poor condition. In this case, manually adjust the tracking.

During playback, press TRACKING +/- to display the tracking meter. The distortion should disappear as you press one of the two buttons. To resume automatic tracking adjustments, eject the tape and re-insert it.

Adjusting the picture sharpness (Smart trilogic)

You can automatically adjust the sharpness of the picture.



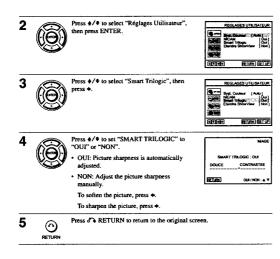


During playback, press SET UP, then press ♦/♦ to select (OPTION) and press ENTER.

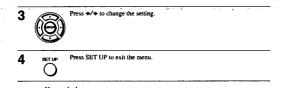




102 Searching using index function



104 Adjusting the picture (tracking)



The default settings are indicated in bold print.

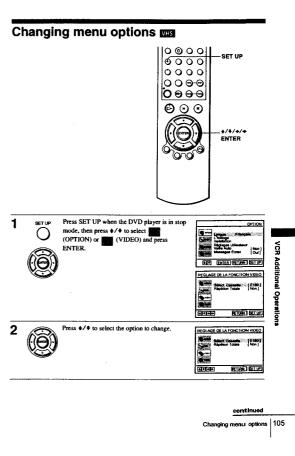
OPTION

Menu option Set this option to

Veille Auto	"Non" to deactivate the Auto Power Off function. "Heures" "2Heures" "3Heures" to turn the DVD-VCR off automatically if no signal is received and you do not press an of the buttons during this time.
Messages Ecran	"Oul" to display the menu on the TV screen. "Non" to disappear the menu from the TV screen.

VIDEO SETUP

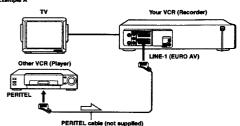
Menu option	Set this option to
Sélect. Cassette	"E180" to use an B-180 or shorter type tape. "E240" to use an B-240 type tape. "E260" to use an B-260 type tape. "E300" to use an B-300 type tape.
Répétion Totale	"Oui" to play back a tape repeatedly. The VCR rewinds a tape to the beginning and restarts playback automatically. "Non" to turn off Auto repeat.

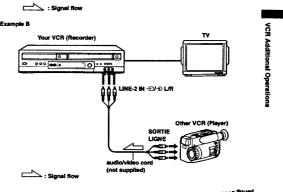


Editing was

How to connect to record on this VCR

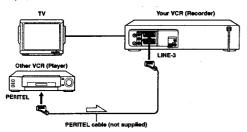
Connect the line outputs of the other VCR to the input connector of this VCR. Refer to the examples A through C and choose the connection that best suits your VCR.





Editing 107

106 Changing menu options



: Signal flow

How to connect to a stereo system

Connect the LINE-2 IN \bigcirc / \bigcirc L/R jacks on this DVD-VCR to the audio output jacks on the stereo system, using an audio cable (not supplied).

- Notes

 Make sure you connect the plugs to jacks of the same colour.

 If the other VCR is a monaural type, leave the red plugs unconnected.

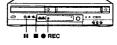
 If you connect this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.

 When you connect another VCR to the LINE-3 or LINE-2 connector, press INPUT SELECT to display "L3" or "L2" in the display window.

Operation (when recording on this VCR) Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display the connected line in the display window
- Press SP/LP to select the tape speed, SP or LP.
- Press SELECT VIDEO to control the VCR.

1



Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.

2 Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press ■ to set it to playback pause. •

3 Press ● REC on this VCR to set it to recording pause. PREC 4 To start editing, press the ## (pause) buttons on both VCRs at the same time.

To stop editing

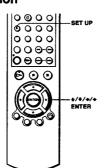
(1)

out unwanted scenes while editing, press 11 on this VCR when an unwanted scene When it ends, press 11 again to resume recording.

108 Editing

General setup information

Changing setup options



Press SET UP when the DVD player is in stop mode, then press \$/\$ to select (OPTION) and press ENTER. SETUP



Press ◆/◆ to select "Réglages Utilisateur", then press ENTER. 2 The "REGLAGES UTILISATEUR" menu



3 Press ♦/♦ to select the option to change. Editing 109

Press */* to change the setting.

Press SET UP to exit the menu.

Initial settings are indicated in bold print.

Menu option	Set this option to
Syst. Couleur	"Auto" to select the colour system automatically.
	 "PAL" to use the tape recorded in the PAL colour system.
	 "SECAM" to use the tape recorded in the SECAM colour system.
	 "MESECAM" to use the tape recorded in the MESECAM colour system.
	. "B/W" to use the tape recorded in black and white.
	When using the tape recorded NTSC colour signals:
	 "NTPB" to play back an NTSC-recorded tape on PAL TV.
	 "NT4.43" to play back an NTSC-recorded tape on Multi TV.
NICAM	. "Oul" to record NICAM broadcasts on the hi-fi audio track.
	 "Non" to record standard sound on the hi-fi audio track. For details, see page 98.
Smart Trilogic	. "Oul" to automatically adjust the sharpness of the picture.
	 "Non" to manually adjust the sharpness of the picture.
Etendre ShowView	"Non" to deactivate the ShowView Extend function.
	 10/20/30//60 (minutes) to extend the time of the ShowView setting by the selected amount of time.

110 General setup information

Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony service facility.

General Troubleshooting

	Symptom	Remedy
-	The I/O (on/standby) switch does not function.	Connect the mains lead to the mains securely.
Power	The power is turned on but the DVD- VCR does not operate.	 Moisture condensation has occurred. Turn the power off, unplug the mains lead and leave the DVD-VCR to dry for over three hours.
Clock	The clock has stopped and ":" appears in the display window.	The clock stops if the DVD-VCR is disconnected from the mains. Reset the clock (and timer).
Others	The remote commander does not function.	Make sure you are pointing the remote commander at the remote sensor on the DVD-VCR.
		Replace all the batteries in the remote commander with new ones if they are weak.
		 Make sure the TY / DVD-VIDEO switch is set correctly. Select correctly VIDEO or DVD with the SELECT DVD/VIDEO button.
	The tracking meter does not appear on the screen.	The recording condition of the tape is very poor and tracking cannot be adjusted.
	You cannot control other TVs.	 Set your TV's code number. The code number may change when you replace the batteries of the remote commander.

DVD Troubleshootin

Symptom	Remedy
There is no picture/picture noise appears.	Re-connect the connecting cord securely. The connecting cords are damaged. Check the connection to your TV (page 11) and switch the input selector on your TV sor TV (page 11) and switch the input selector on your TV serven. The disc is dirty or flawed. If the picture output from your player goes through your VCR to get to your TV or if you are connected to a combination TV/VIDEO player, the copy-protection signal applied to some Did programmes could affect the process of the programmes could affect when you connect your player directly to your TV pleas try connecting your player to your TV's S VIDEO input (page 61).

2 Troubleshooting

	Symptom	Remedy
	The title of the MP3 audio album or track is not correctly displayed.	The player can only display numbers and alphabet. Other characters are displayed as asterisks.
	The disc does not start playing from the beginning.	Programme play, shuffle play, or repeat play, has been selected (pages 78, 80, 81). Resume play has taken effect (page 32).
	The player starts playing the disc automatically.	The disc features an auto playback function.
	Playback stops automatically.	While playing discs with an auto pause signal, the player stops playback at the auto pause signal.
	You cannot perform some functions such as stop, search, slow-motion play, repeat play, shuffle play, or programme play.	 Depending on the disc, you may not be able to do some operations. See the operating manual that comes with the disc.
Operation	The language for the sound track cannot be changed.	Try using the DVD's mean instead of the direct selection button on the remote (page 73). Multilingual tracks are not recorded on the DVD being played. The DVD prohibits the changing of the language for the sound track.
	The subtitle language cannot be changed or turned off.	Try using the DVD's menu instead of the direct selection button on the remote (page 73). Multilingual subtitles are not recorded on the DVD being played. The DVD prohibits the changing of the subtitles.
	The angles cannot be changed.	Try using the DVD's menu instead of the direct selection button on the remote (page 73). Multi-angles are not recorded on the DVD being played. The DVD prohibits changing of the angles.
	The player does not operate properly.	When static electricity, etc., causes the player to operate abnormally, unplug the player.

	Symptom	Remedy
Picture	Even though you set the aspect ratio in "Type TV" of the "REGLAGE DE L'ECLAN" menu the picture does not fill the screen.	The aspect ratio of the disc is fixed on your DVD.
_	There is no picture from your VCR connected to the LINE IN jacks.	The DVD player must be in standby mode to view pictures from your VCR.
Sound	There is no sound.	Re-connect the connecting cord securely. The connecting cord is damaged. The player is connected to the wrong input jack on the amplifier (receiver) (page 59). The amplifier (receiver) input is not correctly set. The player is in pause mode or in Slow-motion Play mode. The player is in fast forward or fast reverse mode. If the audio signal does not come through the DIGITAL AUDIO QUIT (OPTICAL Or COAXIAL) sack check the
	Sound is noisy.	when playing a CD with DTS sound tracks, noise will come from the OUT AUDIO L/R jacks (page 33) or DIGITAL OUT (OPTICAL or COXYAL) jack.
	The sound volume is low.	The sound volume is low on some DVDs. The sound volume may improve if you set "Audio DRC" to "TV" (page 64).
_	The disc does not play.	The disc is turned over. Insert the disc with the playback side facing down on the disc tray. The disc is skewed. The player cannot play certain discs (page 6). The region code on the DVD does not match the player. Moisture has condensed inside the player. The player cannot play CD-Rs. CD-RWs, DVD-Rs or DVD-RWs that are not findined (page 7). Make sure the Ty / DVD-WDEQ switch is setcorrectly. Select correctly VIDEO or DVD with SELECT DVD/VIDEO button.
Operation	The MP3 audio track cannot be played (page 85).	The DATA CD is not recorded in the MP3 format that conforms to ISO9660 Level I/Level 2 or Joliet to The MP3 audio track does not have the extension ".MP3 The data is not formatted in MP3 even though it has the extension ".MP3". The data is not MPEG1 Audio Layer 3 data. The player cannot play audio tracks in MP3PR0 format.
	The JPEG image file cannot be played.	The DATA CD is not recorded in JPEG formatihat conforms to ISO9660 Level \(\bar{L}\)\(\text{Level}\) \(2\text{or Joliet}\) The JPEG image file does not have the extensim ".JPG" or "JPEG". The data is not formatted in JPPG even thoughit has the extension "JPG" or ".JPEG".

continued

Trouble shooting 113

VCR Troubleshootin

	Symptom	Remedy
Playback	The playback picture does not appear on the TV screen.	 Make sure the TV is set to the channel for the ¹CR. If you are using a monitor, set it to video input. if the VCR is connected to the TV with the PEIITEL cable, make sure the VCR indicator is lit in the tisp-lay window. Use the TV/VIDEO button on the renue commander to light up the VCR indicator.
	The picture is not clear.	Adjust the tracking with the TRACKING +/- httors. The video heads are dirty (see the last page of Troubleshooting). Clean the video heads using a Sony video head cleaning cassette. If a Sony cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility (a standard swice-charge will be required). Do not use a commercially available liquid type cleaning cassette other tha Sorny's, as it may damage the video heads. The video heads may have to be replaced. Corult your local Sony service facility for more information.
•	The picture has no colour	The "Syst. Couleur" option in the "REGLAGE UTILISATEUR" menu is set to the wrong posion. Set the option to conform to the system that the tap was recorded in.
	The picture rolls vertically during picture search.	Adjust the vertical hold control on the TV or maitor.
	The picture has no sound.	The tape is defective. If you made A/V connections, check the audio ped connection.
	The sound from a tape recorded with the VCR is not in stereo or the STEREO indicator in the display window is flashing.	 Adjust the tracking. The video heads are dirty. Clean the video heat useing Sony video head cleaning cassette as explained above.
Recording	No TV programme appears on the TV screen.	 Make sure the TV is set to the video channel. Iyou a ner using a monitor, set it to video input. Select the correct source with the INPUT SELET button. Select a programme position when reculing Tv programmers, select a line input when recording/roran other equipment.
	TV reception is poor.	Make sure the aerial cable is connected securely Adjust the TV aerial. Make sure "SYS. (J.L." or B/G)" in the "RECTRC" #IE MANUELLE" menu is set to the same system in your local area.
	The tape starts playing as soon as it is inserted.	The safety tab has been removed. To record onhis gape cover the tab hole.
	The tape is ejected when you press REC.	The safety tab has been removed. To record on his gape cover the tab hole.
	Nothing happens when you press REC.	Make sure the tape is not at its end.

ner Sille

Troutes#nooting 1

Troubleshooting

	Symptom	Remedy
Timer recording	The timer does not operate.	Check that the clock is set. Make sure a tupe has been inserted. Check that the safety tab has not been removed. Make sure the tape is not at its end. Make sure or programme has been set for timer recording. Make sure programme has been set for timer recording. Make sure your timer settings are past the current time. Check that the decoder is turned on. Check that the satellite turner is turned on. The clock stops if the DVD-VCR is disconnected from the mains for more than one minute. Reset the clock and timer. Turn the power off and unplug the mains lead.
=	The VPS/PDC function does not operate properly.	• Check that the clock and the date are set correctly. • Check that the YPS/PDC time you set is the correct one (there might be a mistake in the TV programme guide). If the broadcast you wanted to record did not send the good VPS/PDC information, the VCR will not start recording. • If the reception is poor, the VPS/PDC signal might be altered and the VCR might not start recording.
Canal Plus	You cannot watch Canal Plus programmes when the VCR is in standby mode.	Check that "DEC" is set to "OUI" for this channel in the "LISTE STATIONS TV" menu. Make sure the Canal Plus PERITEL cable is plugged securely.
	A Canal Plus programme is always recorded scrambled.	Make sure the Canal Plus PERITEL cable is plugged securely. Check that "DBC" is set to "OUI" for this channel in the "LISTE STATIONS TV" meau.
	A tape cannot be inserted.	Check that a tape is not already in the tape compartment.
Others	The selected input line connector number does not appear in the display window.	Press INPUT SELECT to display the connected line.
	The VCR mechanism needs to be cleaned.	 Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.









Title (page 35)

The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track (page 35)

Sections of a picture or a music feature on a CD or VIDEO CD (the length of a song).

Glossary

Chapter (page 35)

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital (pages 60 and 63)

Dolby Digital (pages 60 and 63)
Digital audio compression technology
developed by Dolby Laboratories. This
technology conforms to 5.1-channel
surround sound. The rear channel is stereo
and there is a discrete subwoofer channel in
this format. Dolby Digital provides the same
5.1 discrete channels of high quality digital
audio found in Dolby Digital cinema audio
systems. Good channel separation is realized
because all of the channel data are recorded
discretely and little deterioration is realized
because all channel data processine is digital. because all channel data processing is digital.

Dolby Surround (Pro Logic) (page 59)

Doby Surround (ref Logic) (page say Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, centre and rear signals. The rear channel is monaural.

DTS (page 63)

DIS (page 6.3)
Digital audio compression technology that
Digital Theater Systems, Inc. developed.
This technology conforms to 5.1-channel
surround sound. The rear channel is stereo
and there is a discrete subwoofer channel ir
this format. DTS provides the same 5.1.
discrete channels of high quality digital
audio.

Good channel separation is realized because all of the channel data is recorded discretely and little deterioration is realized because all channel data processing is digital.

DVD (page 6)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte), which is 7 times that of a CD. The data capacity of a double-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and double-layer and double-sided DVD is 17 GB.

double-sided DVD is 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 (average) of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing you to enjoy a more real audio presence.

Frence.

such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

DVD-RW (page 6)

DVD-RW (page 6)
A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW (page 6)

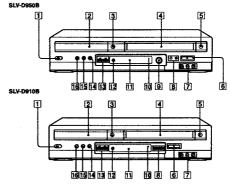
A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

Glossary 1117

Index to parts and controls

Refer to the pages indicated in parentheses () for details.

Front panel



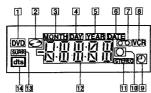
- 1 1/0 (on/standby) switch (10) (38)
- 2 Disc tray (31)
- 4 Tape compartment (37)
- 6 SELECT DVD/VIDEO (9)
- 7 LINE-2 IN 1/07 L/R jacks*1 (107)
- 8 PROGRAM +/- buttons *2 (41) 9 O DIAL TIMER*3 (52)
- 10 Remote sensor (9)
- 11 Display window (32) (37)
- REC (record) button (41)
- (33) (38) (31) (32) (33) (38)
- 14 **(stop)** button (32) (38)
- 15 al (pause) button (32) (38)
- 16 > (play) button (32) (37)
- ***Overed

 **PROGRAM + button has a tactile dot.

 Use the tactile dot as a reference when operating the DVD-VCR.

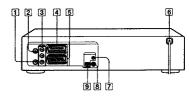
Index to parts and controls | 121

118 Glossary



- [1] DVD indicator (32)
- 2 Disc indicator (32)
- 3 MONTH indicator* (52)
- 4 DAY indicator* (52)
- 5 YEAR indicator* (52)
- 6 DATE indicator* (52)
- 7 Tape indicator (37)
- 8 VCR indicator (37)
- 9 Timer indicator (46) 10 Recording indicator (41)
- 11 STEREO indicator (98) Playing time/clock/current state indicator (32)
- 13 SURR (surround) indicator (83)
- 14 DTS indicator (63)
- SLV-D950B only

Rear panel



DVD player and VCR

- (11) (out to tv) connector (11)
- 2 Y (in from antenna) connector (11)
- 3 OUT VIDEO/AUDIO L/R jacks (11)
- 4 LINE-3 connector (12)
- 5 LINE-1 (EURO AV) connector (11)

DVD player only

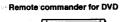
- 6 Mains lead (11)
- 7 DIGITAL AUDIO OUT jack (COAXIAL) (60)

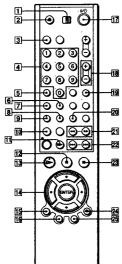
 8 S-VIDEO OUT jack (61)
- 9 DIGITAL AUDIO OUT jack (OPTICAL) (60)

continued

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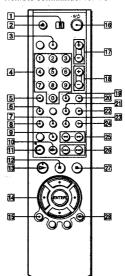




- 1 TV / DVD-VIDEO switch (9)
- 3 SELECT DVD button (9)
- 4 Number buttons* (10) (71) 5 CLEAR button (79)
- 6 SURROUND button (83)
- 7 SET UP button (14)
- 8 SUBTITLE button (77) 9 AUDIO button* (82)
- REPEAT/PROGRAM button (78) (81)
- [1] #► STEP button (32)
- 12 #1 (pause) button (32) [13] (play) button* (32)
- 14 #/#/#/ buttons ENTER button (14)
- 15 DISPLAY button (35) (41)
- 16 TOP MENU button (73) 17 1/ (on/standby) switch (10)
- 18 VOL (volume) +/- buttons (10)
- 19 ZOOM button (75) 20 ANGLE button (76)
- 21

 ✓✓/>
 SCAN/SLOW > buttons (32) 22 III PREV/NEXT buttons (32)
- (32) (stop) button (32)
- 24 6 RETURN button (20)
- MENU button (73)
- Number 5, AUDIO and I> buttons have a tactile dot. Use the tactile dot as a reference when operating the DVD-VCR.

Remote commander for VCR



- 1 TV / DVD•VIDEO switch (9)
- 3 SELECT VIDEO button (9)
- 4 Number buttons* (10)
- 5 CLEAR button (24)
- 6 SET UP button (14)
- 7 TIMER button (49)
- 8 AUDIO button* (98)
- 9 INDEX button (101) 10 H► STEP button (38)
- 11 REC (record) button (41)
- 12 III (pause) button (38) 13 > (play) button* (37)
- 14 4/4/4/+ buttons ENTER button (14)
- 15 DISPLAY button (41)
- 16 1/0 (on/standby) switch (10) (8)
- PROG (programme)/TRACKING +/-buttons* (39) (41)
- 18 VOL (volume) +/- buttons (10)
- 19 -/-- (ten's digit) button (10)
- 20 MUTING button (10)
- 21 SP (Standard Play)/LP (Long Pay) button (41)
- 22 TV/VIDEO button (42)
- 23 SOPB button (95)
- 24 INPUT SELECT button (41)
- 25

 ✓ (rewind)/▶► (fast-forwar)

 SLOW ▶► button (38)
- 26 H≪/► SHUTTLE buttons 38)
- 27 **(**stop) button (38)
- 28 A RETURN button (20)
- Number 5, AUDIO, Deand PROG/
 TRACKING + buttons have a tactile bt. Use the tactile dot as a reference when openant in the DVD-VCR.

DVD Audio/Subtitle Language

Abbreviation	Language .
A RA	Arabic
СН	Chinese
CR0	Croatian
CZK	Czech
DAN	Danish
DEU	German
ENG	English
ESP	Spanish
FIN	Finish
FRA	French
GRE	Greek
HUN	Hungarian
IDN	Indonesian
IND	Hindi
ISL	Icelandic
ITA	Italian
IWR	Hebrew
JPN	Japanese
KOR	Korean
MAL	Malay
NLD	Dutch
NOR	Norwegian
POL	Polish
POR	Portuguese
RUS	Russian
SVE	Swedish
THA	Thai
TUR	Turquish
VIÈ	Vietnamese
ZAF	Afrikaans

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SLV-D910AZ/D910B/D910E/D910N/D910R/ D950B/D950E/D950GI

2. DISASSEMBLY AND REASSEMBLY

2-1 CABINET AND PCB

2-1-1 Cabinet Top Removal

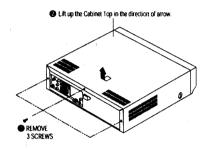


Fig. 2-1 Cabinet Top Removal

2-1-2 Bottom Cover Removal

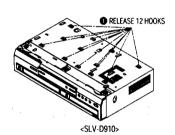
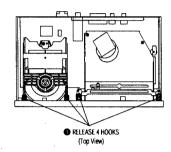




Fig. 2-2 Bottom Cover Removal

2-1-3 Ass'y Front Panel Removal



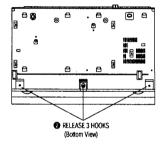


Fig. 2-3 Ass'y Front Panel Removal

2-1-4 Function PCB Removal

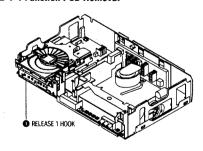


Fig. 2-4 Function PCB Removal

2-1-5 Chassis Removal

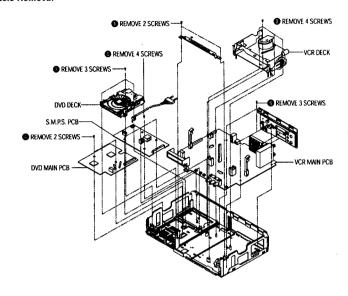


Fig. 2-5 Chassis Removal

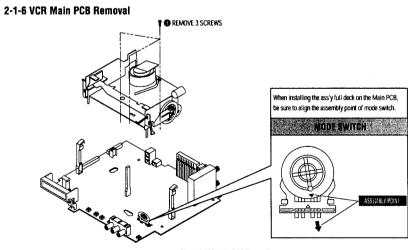


Fig. 2-6 VCR Main PCB Removal

2-3-1 Top View

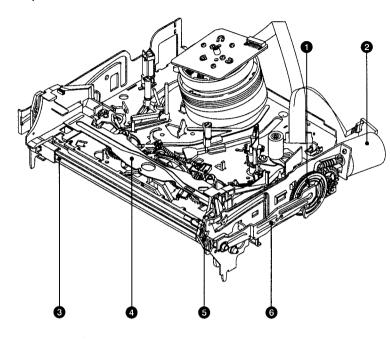


Fig. 2-8 Top parts Location-1

- GEAR FL CAM
 MOTOR LOADING ASSY
 LEVER FL ARM ASSY
 HOLDER FL CASSETTE ASSY
 LEVER FL DOOR
 SLIDER DRIVE

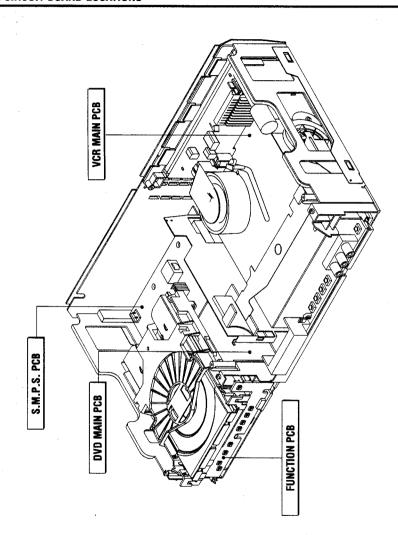


Fig. 2-7 Circuit Board Locations

Fig. 2-9 Top Parts Location-2

- FE HEAD
 CYLINDER ASS'Y
 ACE HEAD ASS'Y
 LEVER UNIT PINCH ASS'Y
 LEVER #9 GUIDE ASS'Y
 LEVER TENSION ASS'Y
 REVER TENSION ASS'Y

- BAND BRAKE ASS'Y
- DISK S REEL
 LEVER S BRAKE ASSY
 GEAR IDLE
 LEVER IDLE
 LEVER T BRAKE ASSY
 DISK T REEL

2-3-2 Bottom View

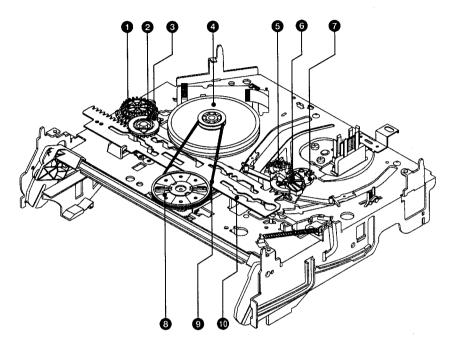


Fig. 2-10 Bottom Parts Location

- GEAR JOINT 1
 GEAR JOINT 2
 BRAKET GEAR

- BRAKET GEAR

 MOTOR CAPSTAN ASSY

 LEVER T LOAD ASSY

 GEAR LOADING DRIVE

 LEVER S LOAD ASSY

 HOLDER CLUTCH ASSY

 BELT PULLEY

 SLIDER CAM

2-4-1 Holder FL Cassette Ass'y Removal

- 1) Pull the Holder FL Cassette Ass'y 1 to the eject position.
- 2) Pull the Holder FL Cassette Ass'y as grasping the Holder FL Cassette Ass'y 1 and Lever FL Cassette-R 1 in the same time to release hooking from Main Base until the Boss [A] of Holder FL Cassette Ass'y is taken out from the Rail [B].
- 3) Lift the Holder FL Cassette Ass'y 1, in this time, you have to grasp the Lever FL Cassette-R ② Continuously until the Holder FL Cassette Ass'y 1 is taken out completely.

Note: Be sure to insert Lever FL Cassette-R 2 in the direction of "A" to prevent separation and breakage of the Lever FL Cassette-R 2 at disassembling and reassembling.

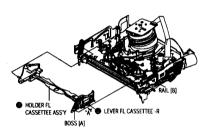


Fig. 2-11 Holder FL Cassette Ass'y Removal

2-4-2 Lever FL Door Removal

1) Release the Hook 2 and Remove the Lever FL Door 1 in the direction of arrow "A".

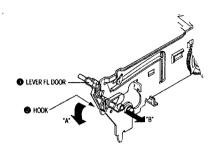


Fig. 2-12 Lever FL Door Removal

2-4-3 Slider FL Drive, Gear FL Cam Removal

- 1) Pull the Slider FL Drive 1 to the front direction.
- 2) Remove the Slider FL Drive 1 in the direction of arrow. (Refer to Fig. 2-13)
- 3) Remove the Gear FL cam 2.

Note: When reinstalling be sure to reassemble Slider FL drive 1 after you insert the Boss of Lever FL ARM-R in Groove of Slider FL drive 1.

Assembly: Align the Gear FL Cam 1 with the Gear worm wheel Post as shown drawing. (Refer to Timing point)

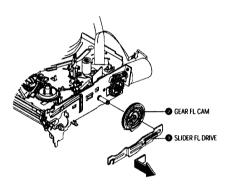


Fig. 2-13 Slider FL Drive Removal

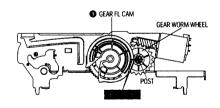


Fig. 2-14 Gear FL Cam, Gear Worm

2-4-4 Lever FL Arm Ass'y Removal

- 1) Push the hole "A" in the direction of arrow "B" use the pin.(about Dia. 2.5)
- 2) Pull out the Lever FL Arm Ass'y from the Boss of Main Base.
 3) Remove the Lever FL Arm Ass'y fin the direction of arrow "C".

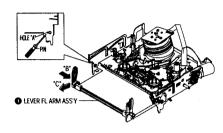


Fig. 2-15 Lever FL Arm Ass'y Removal

2-4-5 Gear Worm Wheel Removal

1) Remove the Gear Worm wheel 1.

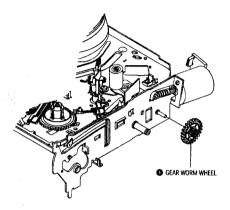


Fig. 2-16 Gear Worm Wheel Removal

2-4-6 Cable Flat Removal

- 1) Remove the Drum connecting part of Cable Flat 1 from Connector
- Waffer 2.

 2) Remove the Loading Motor connecting part of Cable Flat 1 from Connector Waffer 2.

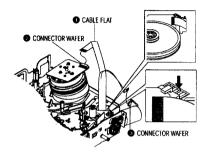


Fig. 2-17 Cable Flat Removal

2-4-7 Motor Loading Ass'y Removal

- 1) Remove the screw 1.
- 2) Remove the Motor Loading Ass'y 2.

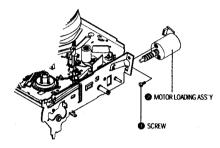


Fig.2-18 Motor Loading Ass'y Removal

2-4-8 Bracket Gear, Gear Joint 2, 1 Removal

- Remove the SCREW 1.
 Remove the Bracket Gear 2.
- 3) Remove the Gear Joint 2 3. 4) Remove the Gear Joint 1 4.

Assembly:

- Assembly:

 1) Be sure to align dot mark of Gear Joint 1 with dot mark of Gear Joint 2 as shown Fig 2-20.

 (Refer to Timing point1)

 2) Confirm the Timing Point 2 of the Gear Joint 2 and Slider Cam .

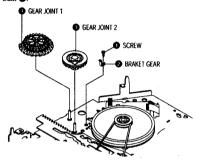


Fig. 2-19 Bracket Gear, Gear Joint 1,2 Removal

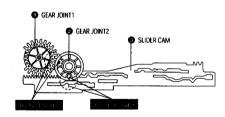


Fig. 2-20 Gear Joint 1,2 Assembly

2-4-9 Gear Loading Drive, Slider Cam, Lever Load S. T Ass'v Removal

- Remove the Belt Pulley. (Refer to Fig. 2-38)
 Remove the Gear Loading Drive after releasing Hook [A] in the direction arrow as shown in detail drawing.
- 3) Remove the Slider Cam .
 4) Remove the Lever Load . Link Load . Lever Load . Link Load .

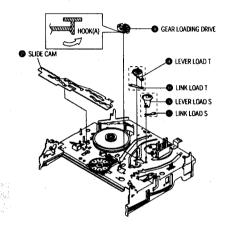
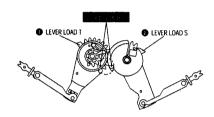


Fig. 2-21 Gear Loading Drive, Slider Cam, Lever T, S Load Ass'y Removal

2-4-10 Gear Loading Drive, Slider Cam, Lever Load S, T Ass'y Assembly

- 1) When reinstalling, be sure to align dot of Lever Load T Ass'y with dot of Lever Load S Ass'y as shown in drawing, (Refer to Timing Point 1).
- Insert the Pin A,B,C,D into the Slider Cam hole,
 Be sure to align dot of Lever Load T and dot of Gear Loading Drive (Refer to Timing Point 2).
 4) Aline dot of Gear Loading drive with mark of Slider Cam
- as shown in drawing (Refer to Timing Point 3).



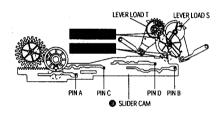


Fig. 2-22 Gear Loading Drive, Slider Cam, Lever Load S, T Ass'y Assembly

2-4-11 Lever Pinch Drive. Lever Tension Drive Removal

1) Remove the Lever Pinch Drive 1, Lever Tension Drive 2.

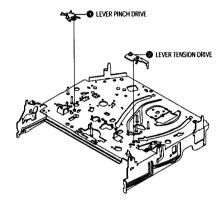


Fig. 2-23 Lever Pinch Drive, Lever Tension Drive Removal

2-4-12 Lever Tension Ass'y, Band Brake Ass'v Removal

- Remove the Lever Brake S Ass'y (Refer to Fig 2-25).
 Remove the Spring Tension Lever ①.
- 3) Rotate stopper of Main Base in the direction of arrow "A".
- 4) Lift the Lever Tension Ass'y 2 & Band brake Ass'y 3.

- 1) When replacing the Lever Tension Ass'y 2, be sure to apply Grease on the post,
- 2) Take care not to touch stain on the felt side, and not to be folder and broken Band brake Ass'y
- 3) After Lever Tension Ass'y seated, Rotate stopper of Main Base to the Mark[B].

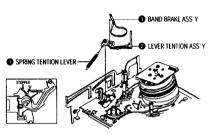


Fig. 2-24 Lever Tension Ass'y, Band Brake Ass'y Removal

2-4-13 Lever Brake S, T Ass'y Removal

- 1) Release the Hook [A] and the Hook [B], [C] in the direction of arrow as shown in Fig 2-25.
- 2) Lift the Lever S, T Brake Ass'y 1, 2 with spring brake 3.

- 1) Assembly the Lever S Brake Ass'y 1 on the Main Base.
- 2) Assembly the Lever T Brake Ass'y 2 with spring brake 3.

Note: Take extreme care not to be folded and transformed Spring Brake at removing or reinstalling.

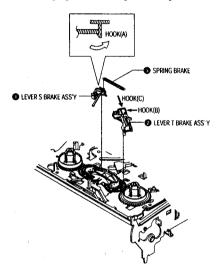


Fig. 2-25 Lever Brake S, T Ass'y Removal

2-4-14 Gear Idle Ass'y Removal

- 1) Push the Lever Idle 1 in the direction of arrow "A", "B".
- 2) Lift the Lever Idle 1.

Assembly:

- Apply oil in two Bosses of Lever Idle 1.
 Assemble the Gear Idle 2 with the Lever Idle 1.

Note: When replacing the Gear Idle ②, be sure to add oil in the boss of Lever Idle ①.

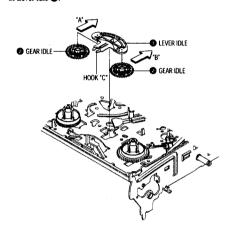


Fig. 2-26 Gear Idle Ass'y Removal

2-4-15 Disk S, T Reel Removal

1) Lift the Disk S, T Reel 1, 2.

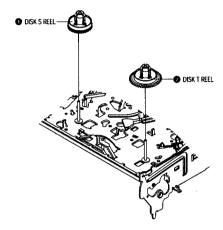


Fig. 2-27 Disk S, T Reel Removal

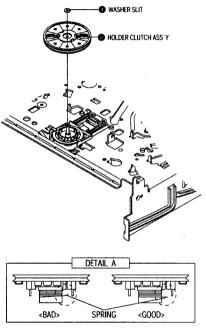
2-4-16 Holder Clutch Ass'y Removal

- 1) Remove the Washer Slit 1.
- 2) Lift the Holder Clutch Ass'y 2.

- Note: When you reinstall Holder Clutch Ass'y

 1) Check the condition of spring as shown in detail A.
- 2) Don't push Holder Clutch Ass'y down with excessive force Just insert Holder Clutch Ass'y into post center with dead force and Rotate it smoothly.

Be sure to confirm that spring is in the slit of Gear Center Ass'y as shown in detail B.



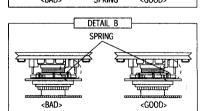


Fig. 2-28 Holder Clutch Ass'y Removal

2-4-17 Lever Up Down Ass'y, Gear Center Ass'v Removal

- 1) Remove the 2 hooks in the direction of arrow as shown Fig. 2-29 and lift the Lever Up Down Ass'y 1.
- 2) Lift the Gear Center Ass'y 2.

Assembly:

- 1) Insert the Lever Up Down Ass'y 1 in the rectangular holes on Main Base as shown in Fig 2-30.

 2) Lift the Lever Up Down Ass'y

 about 35°.
- (Refer to Fig 2-30)
- 3) Insert Ring of the Gear Center Ass'y 2 in the Guide of the Lever Up Down Ass'y 1.
- 4) Insert the Gear Center Ass'y 2 in the post on Main Base.
- 5) Push down the Lever Up Down Ass'y for locking of the Hook.

- Take care not to separate and sentence does not mark sense.
 Be sure to confirm that Ring of the Gear Center Ass'y is in the Guide of the Lever Up Down Ass'y after finishing assembly of Lever Up Down Ass'y and Gear Center Ass'y 2.

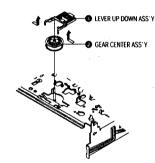


Fig. 2-29 Lever Up Down Ass'y Removal

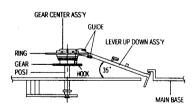


Fig. 2-30 Lever Up Down Ass'y Removal

2-4-18 Guide Cassette Door Removal

- 1) Lift the Hook [A].
- 2) Rotate the Guide Cassette Door in the direction of arrow.

Note: After reinstalling the Guide Cassette Door 1 sure the Hook

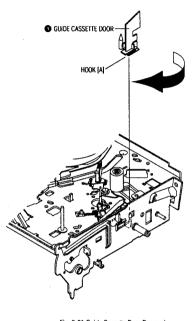


Fig. 2-31 Guide Cassette Door Removal

2-4-19 Lever Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

- 1) Lift the Unit Pinch Ass'y 1.
- 2) Remove the Plate Joint 2 from Lever Pinch Drive.
- 3) Remove the Spring Pinch Drive 3.

Note:

- 1) Take extreme care not to touch the grease on the Roller Pinch.
- 2) When reinstalling, be sure to apply grease on the post pinch roller.

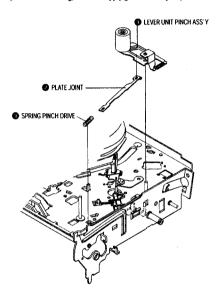


Fig. 2-32 Lever Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

2-4-20 Lever #9 Guide Ass'v Removal

- 1) Remove the Spring #9 Guide 1.
- 2) Lift the Spring #9 Guide Ass'y 2 in the direction of arrow "A".

- 1) Take extreme care not to get grease on the tape Guide Post.
- 2) After reinstalling, check the bottom side of the Post #9 Guide to the top side of Main Base.

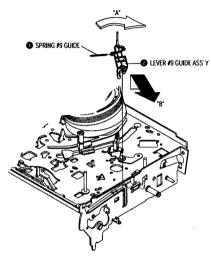


Fig. 2-33 Lever #9 Guide Ass'y Removal

2-4-21 FE Head Removal

- 1) Remove the screw 0.
- 2) Lift the FE Head 2.

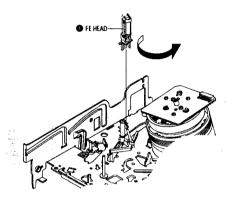


Fig. 2-34 FE Head Removal

2-4-22 ACE Head Removal

- Pull out the FPC from connector of ACE Head Ass'y ②.
 Remove the screw ①.
 Lift the ACE Head Ass'y ②.

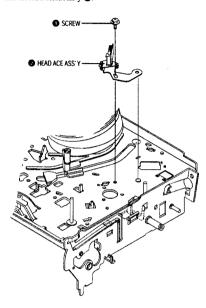


Fig. 2-35 ACE Head Removal

2-4-23 Slider S, T Ass'y Removal

1) Move the Slider S, T Ass'y 1, 2 to slot, and then lift it to remove.

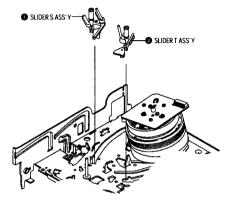


Fig. 2-36 Slider S, T Ass'y Removal

2-4-24 Plate Ground Deck, Cylinder Ass'y Removal

- Remove the 3 Screws ①.
 Lift the Plate Ground Deck ②.
- 3) Lift the Cylinder Ass'y 3.

- 1) Match the 3 holes in the bottom of Cylinder Ass'y 3 to the 3 holes of Main Base as attending not to drop or knock the Cylinder Ass'y **6**.
- Tighten the 1 Screw ①.
 Match the Plate Ground Deck ② to the Hole of Base Main.
 Tighten the other 2 Screws ①.

- 1) Take care not to touch the Cylinder Ass'y 10 and the tape guide post at reinstalling.
 When reinstalling, Don't push down too much on Screw Driver.

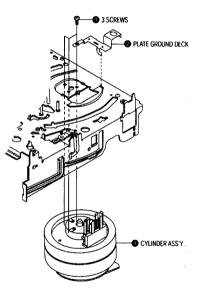


Fig. 2-37 Plate Ground Deck, Cylinder Ass'y Removal

2-4-25 Belt Pulley Removal

1) Remove the Belt Pulley 1.

Note: Take extreme care not to get grease on Belt Pulley 1 at assembling or reassembling.



Fig. 2-38 Belt Pulley Removal

2-4-26 Motor Capstan Ass'y Removal

- 1) Remove the Damper Capstan 1 in the direction of arrow.
- 2) Remove the 3 Screws 2.
- 3) Remove the Motor Canstan Ass'v 3.

- 1) Match the 3 holes of Motor Capstan Ass'y 3 to the 3 holes of Main Base. Be careful not to drop or knock the Motor Capstan
- 2) Tighten the 3 Screws 2 in the direction of arrow as shown detail drawing.
- 3) Assemble the Damper Capstan 1.

Note: After tightening screws, check if there is gap between the head of screws and the top side of Main Base. There should have no gap between the head of screws and the top side of Main Base. After reinstalling, adjusting the tape transport system again.

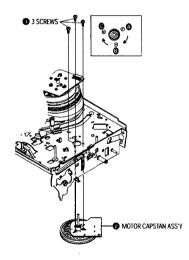


Fig. 2-39 Motor Capstan Ass'y Removal

2-4-27 Post #8 Guide Ass'y Removal

1) Rotate the Post #8 Guide Ass'y 1 in the direction of arrow to lift

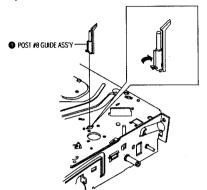


Fig. 2-40 Post #8 Guide Ass'y Removal

2-4-28 Level Head Cleaner Ass'y Removal (Optional)

- 1) Release the Hook 1.
- 2) Lift the Lever Head Cleaner Ass'y 2.

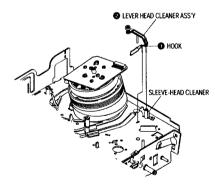


Fig. 2-41 Lever Head Cleaner Ass'y Removal

2-4-29 How to Eject the Cassette Tape (If the unit does not operate on condition that is inserted into housing Ass'y)

1) Turn the Gear worm 10 clockwise with screw driver. (Refer to (Other method: Remove the Screw of Motor Load Ass'y, Separate the Motor Load Ass'y)

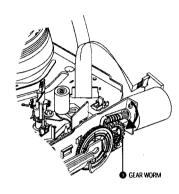


Fig. 2-42

- 2) When Slider S,T are approched in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwinded tape. (Refer to Fig.2-43)
- (If you rotate Gear Worm 1 continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage.
- Be sure to wind the unwinded tape in the state of set horizently.) 3) Rotate Gear Worm 1 clockwise using screw driver again up to
- the state of eject mode and then pick out the tape. (Refer to Fig. 2-

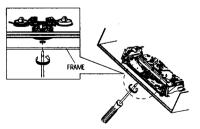


Fig. 2-43

2-5 THE TABLE OF CLEANING, LUBRICATION AND REPLACEMENT TIME ABOUT PRINCIPAL PARTS

- 1) The replacement time of parts is not life of parts.
- 2) The table 2-1 is that the VCR Set is in normal condition (normal temperature, normal humidity). The checking period may be changed owing to the condition of use, runtime and environmental conditions.
- 3) Life of the Cylinder Ass'y is depend on the condition of use.
- 4) See exploded view for location of each parts.

<Table 2-1>

						< Table 2-	-1>					
	Personne.											
			1000		4.5							化共享 。在1942年
	POST TENSION	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	- To clean the parts, use patch and
	SLANT POST S, T	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	alcohol (solvent).
T	#8 GUIDE SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	40
A	CAPSTAN SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	- After cleaning, use the video tape after alcohol is gone away complete-
P	#9 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	ly.
P	#3 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	1 '
À	GUIDE ROLLER S, T	Δ	Δ	Δ	0	0	0	0	0	0	0	- We recommend to use oil (EP-50) or
Ţ	CYLINDER ASS'Y	Δ	0	0	0	0	0	0	0	0	0	solvent.
H	FE HEAD	Δ	Δ	Δ	0	0	0	0	0	0	0	- One or two drops of oil should be
S	ACE HEAD	Δ	Ö	0	0	0	0	0	0	0	0	applied after
s	PINCH ROLLER	Δ	0	0	0	0	0	0	0	0	0	cleaning with alcohol.
T	POST REEL S, T		•		•		•		•		•	- Periodic time of applying oil (Apply
E M	SLEEVE TENSION		•		•		•		•		•	oil after cleaning)
"	POST CENTER		•		•		•		•		•	- The excessive applying oil may be the cause of
	LEVER IDLE BOSS (2Point)		•		+		•		•		•	malfunction.
D o	CAPSTAN MOTOR PULLEY	Δ	Δ	Δ	Δ	Δ	0	0	0	0	0	Trail a top of the control of the co
R S	BELT PULLEY				0	0	0	0	0	0	0	
l s	HOLDER CLUTCH ASS'Y	Δ	0	0	0	0	0	0	0	0	0	
i I	GEAR CENTER ASS'Y		0	0	0	0	0	0	0	0	0	
N E	GEAR IDLE (2Point)		0	0	0	0	0	0	0	0	0	
ا	LOADING MOTOR		0	0	0	0	0	0	0	0	0	
SHAKE S	BAND BRAKE ASSY		0	0	0	0	0	0	0	0	0	
K K	BRAKE T ASSY		0	0	0	0	0	0	0	0	0	

Δ : Cleaning 0 : Check and replacement in necessary ◆ : Add Oil

2-6-2 Ass'y P/U Deck Removal

- Disconnect DCN2 ①, DCN3 ②.
 Lift down the Assy P/U Deck ② while simultaneously pushing 2 Hooks ②, ③ in the direction of arrow "A", "B".

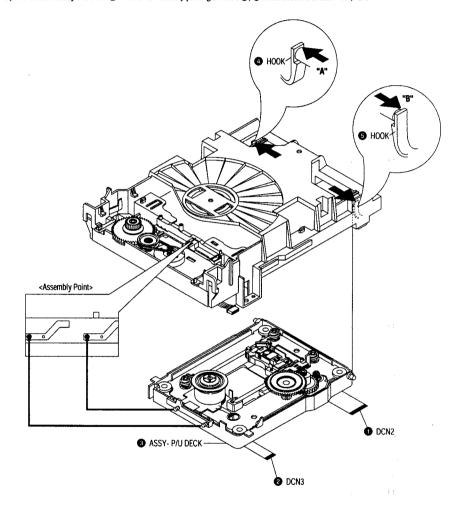


Fig. 2-45 Assy P/U Deck Removal

2-6-2 Assy P/U Deck Removal

- Disconnect DCN2 , DCN3 .
 Lift down the Assy P/U Deck while simultaneously pushing 2 Hooks . in the direction of arrow "A", "B".

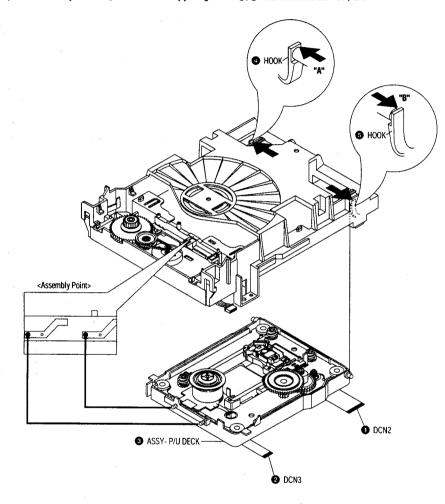


Fig. 2-45 Assy P/U Deck Removal

2-6-3 Housing Ass'y Removal

- Remove Belt ①.
 Push the Hook ② in the direction arrow "A" and lift up Pulley Gear ③.
 Push the Slider Housing ③ in the direction arrow "B" and lift up the Gear Tray ③.
 Lift up the Slider Housing ②.
 Remove 2 Screws ③ and lift down the Motor Load Assy ②.
 Remove Clamper Ass'y ③.

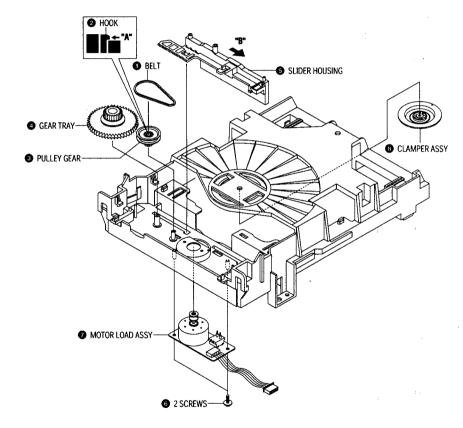


Fig. 2-46 Housing Ass'y Removal

2-6-4 Sub Chassis Removal

- Remove the Soldering of Motor Feed (+, wire)
 Remove the 4 Screws .
 Lift up the Ass'y Brkt Deck .

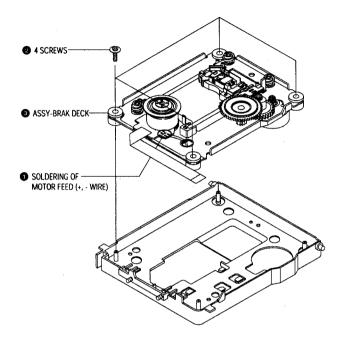


Fig. 2-47 Sub Chassis Removal

2-6-5 Ass'y Brkt Deck Removal

- 1) Push the Hook (a) in the direction arrow "A" and lift up Gear Feed B (a).
 2) Remove 3 Screws (b) and 3 Holder Cam Skew (c).
 3) Remove Shaft Pick-Up (a) and Pick-Up Assy (b).
 4) Remove Gear Feed A (c).

- 5) Remove 2 Screws 8.
- 6) Remove Motor Feed Ass'y 9.
 7) Remove 3 Screws 9.
- 8) Remove Motor Spindle ...

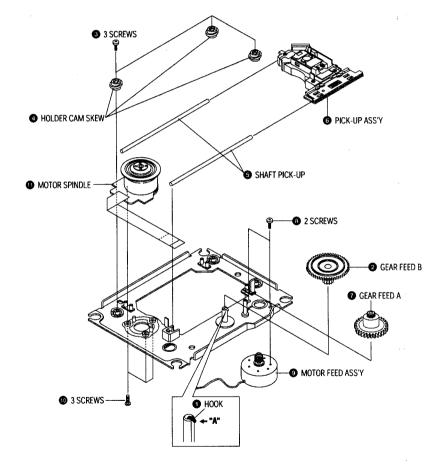
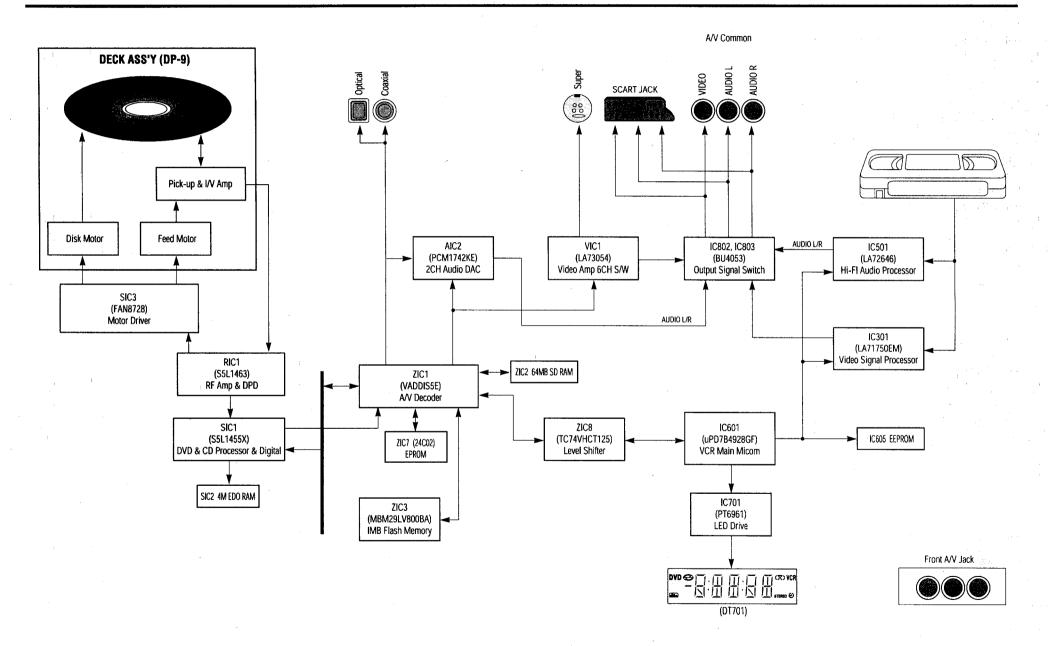


Fig. 2-48 Ass'y Brkt Deck Removal

2-26E

3. BLOCK DIAGRAM

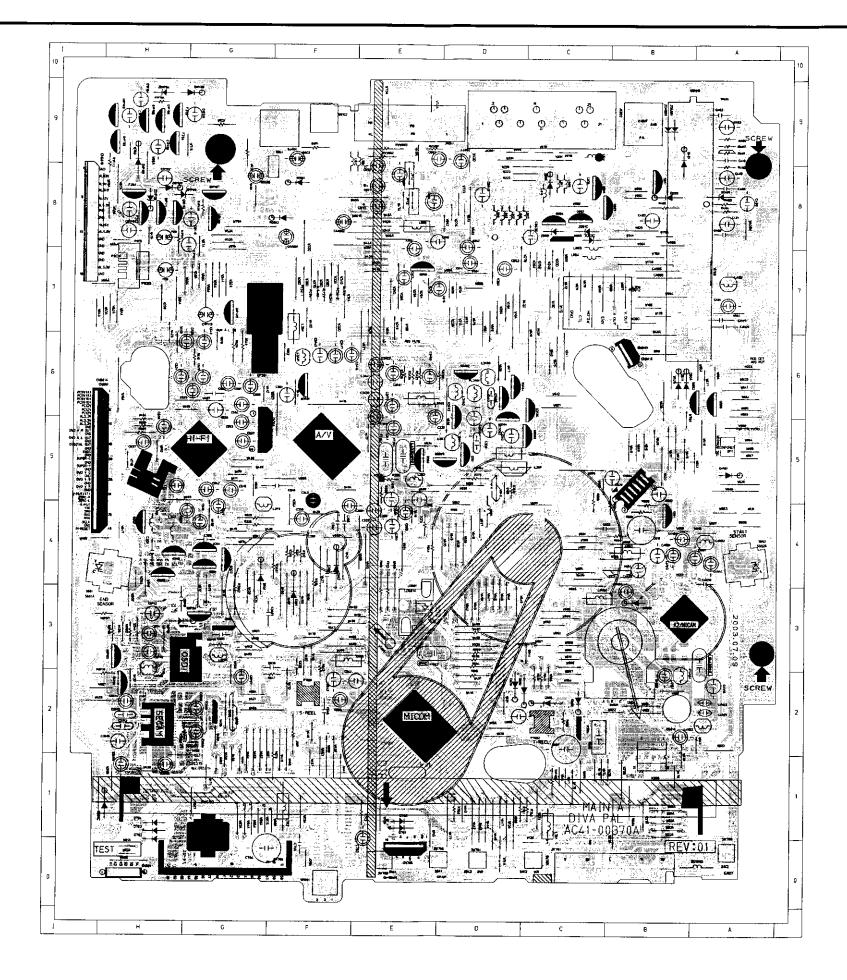


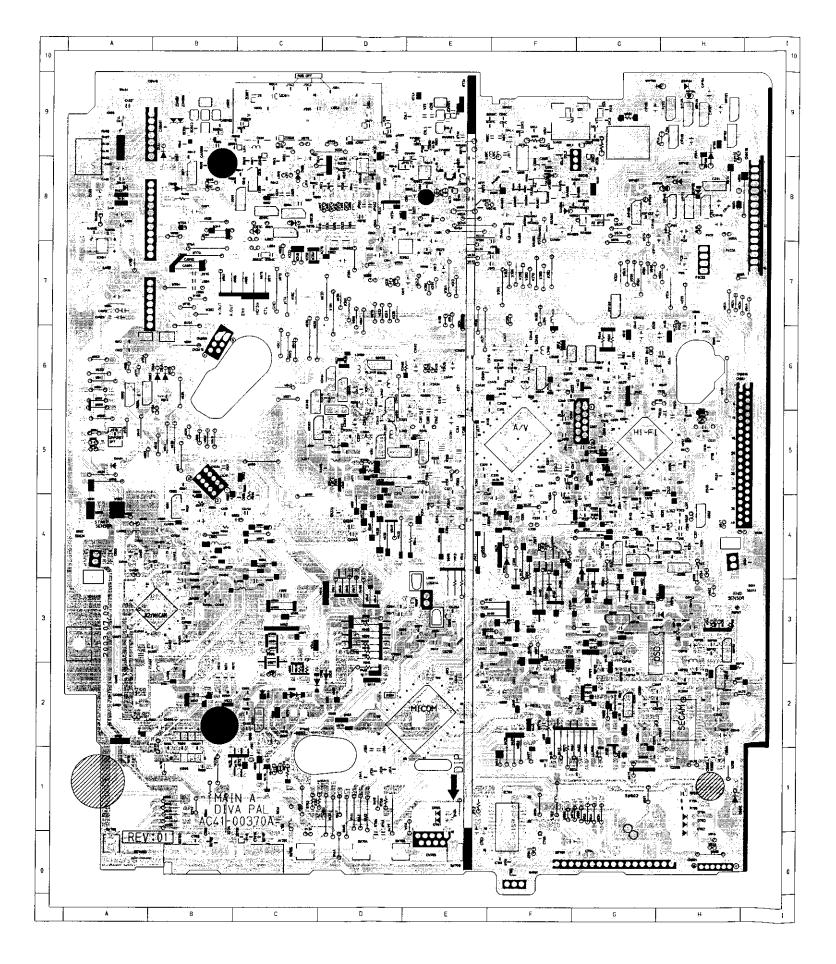
<u>MEMO</u>

4. PCB DIAGRAMS

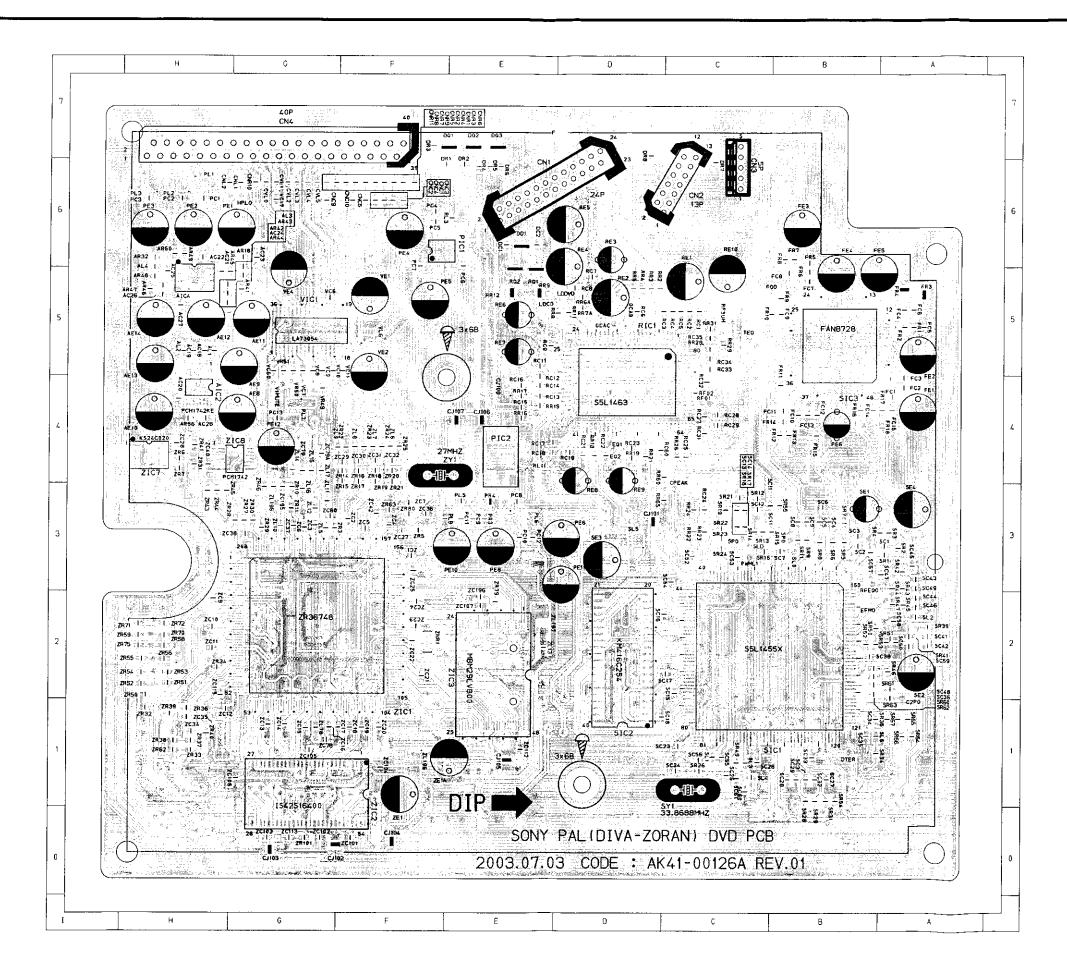
	Dial-Timer (SLV-D950B/D950E/D950GI/D910AZ Only) 4-1
4-4	Function 4-1
4-3	S.M.P.S 4-1
4-2	DVD Main 4-7
4-1	VCR Main 4-3

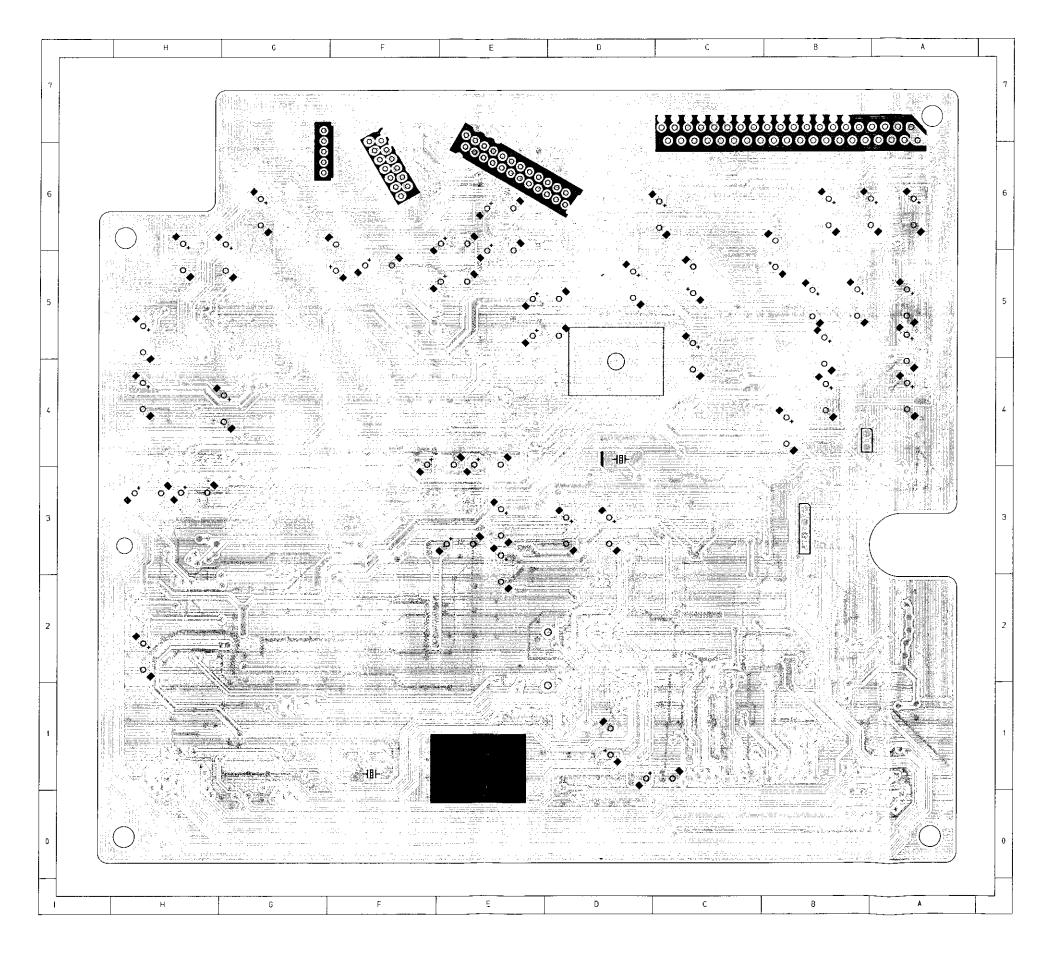
COMPONENT SIDE





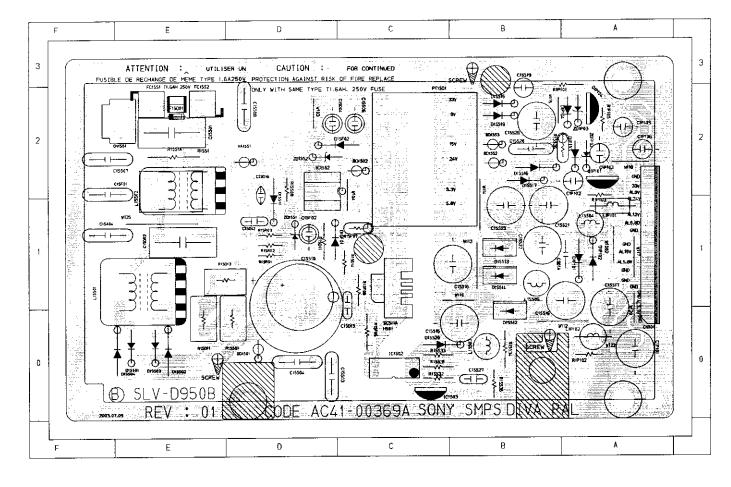
COMPONENT SIDE

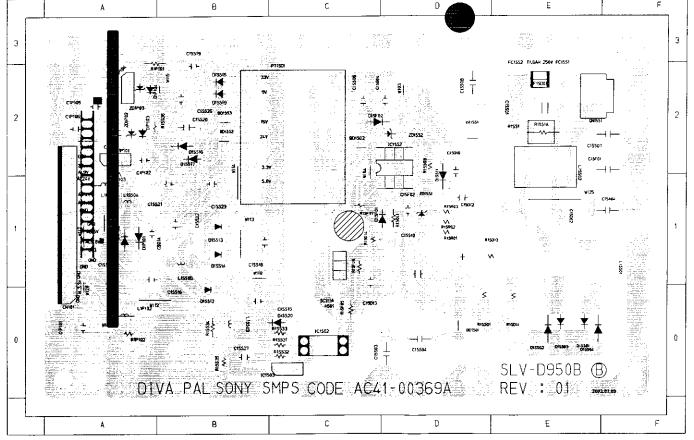




COMPONENT SIDE

CONDUCTOR SIDE

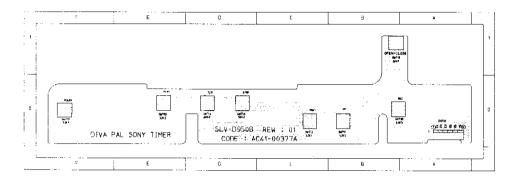


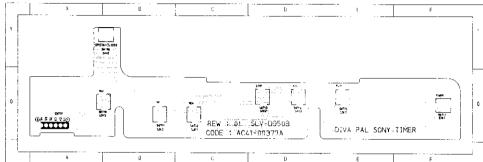


4-4 FUNCTION

COMPONENT SIDE

CONDUCTOR SIDE

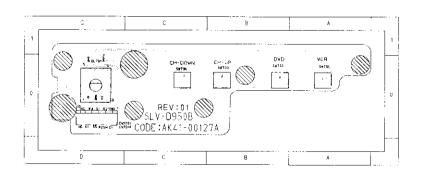


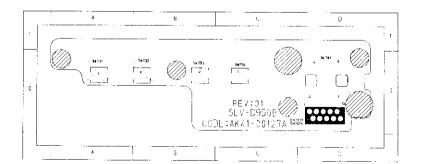


4-5 DIAL-TIMER (SLV-D950B/D950E/D950GI/D910AZ Only)

COMPONENT SIDE

CONDUCTOR SIDE





<u>MEMO</u>

5. SCHEMATIC DIAGRAMS

♦ BI	ock Identification of Main PCB
VČ	R Main PGB
5-1	S.M.P.S
5-2	Power Drive
5-3	OSD/VPS/PDS
5-4	A2/NICAM
5-5	Audio/Video
5-6	Hi-Fi
5-7	Input-Output
5-8	TM
5-9	Syscon
5-10	Logic/Function
5-11	SECAM (SLV-D950B/D910B/D910R Only
DV	D Main PGB
5-12	DVD Main-Micom/AV Decoder
5-13	DVD Servo
5-14	DVD Audio/Video

Note

For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

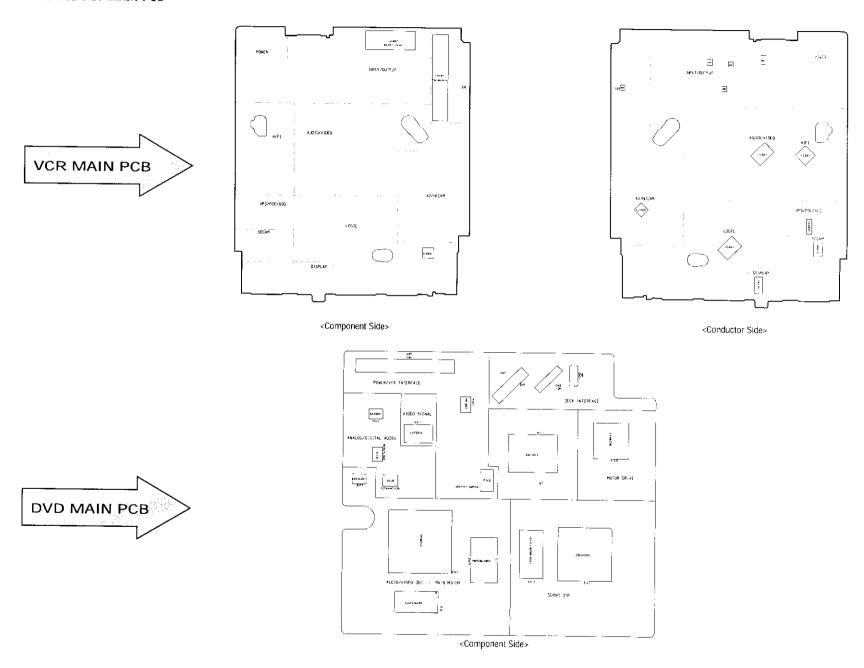
Special note :

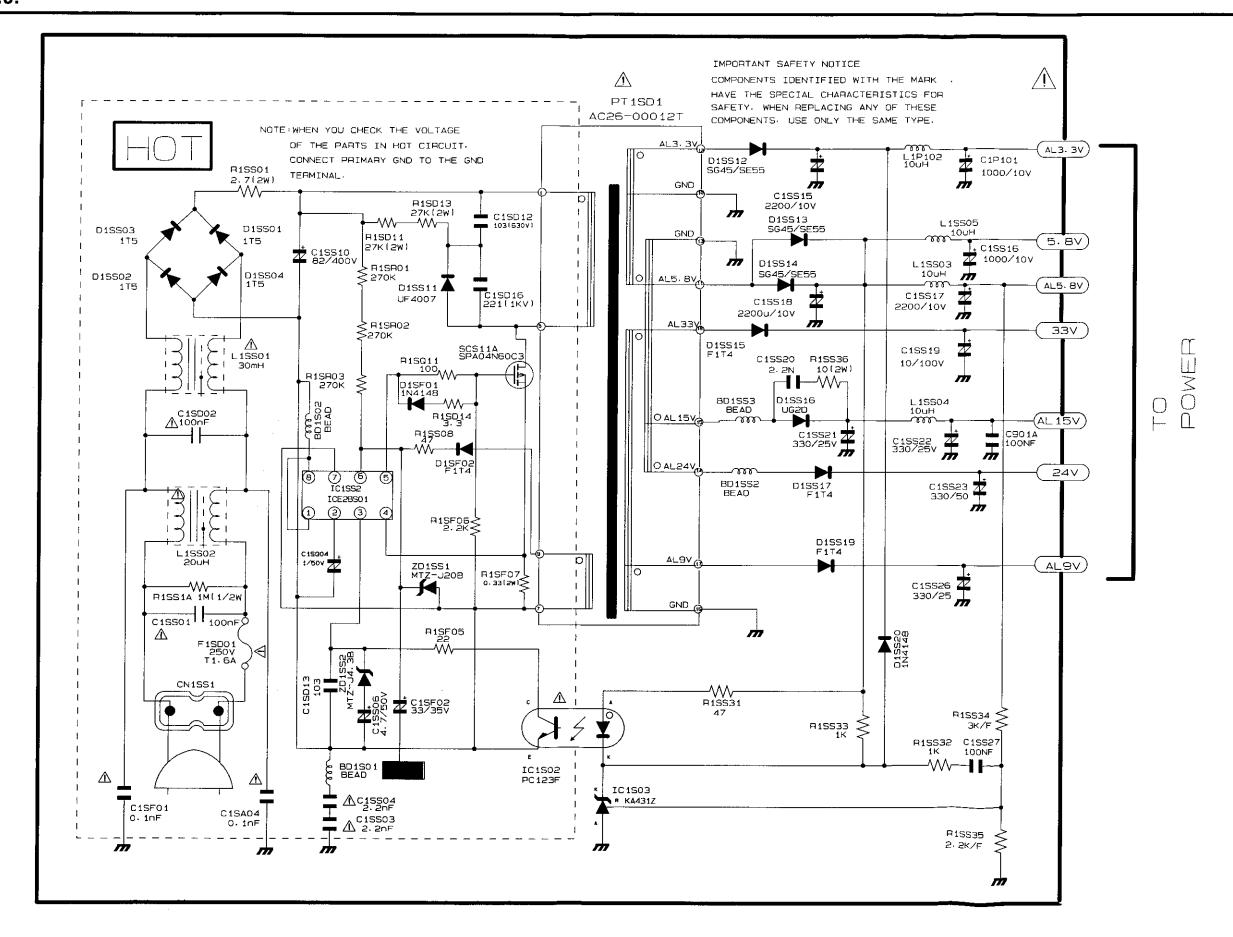
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

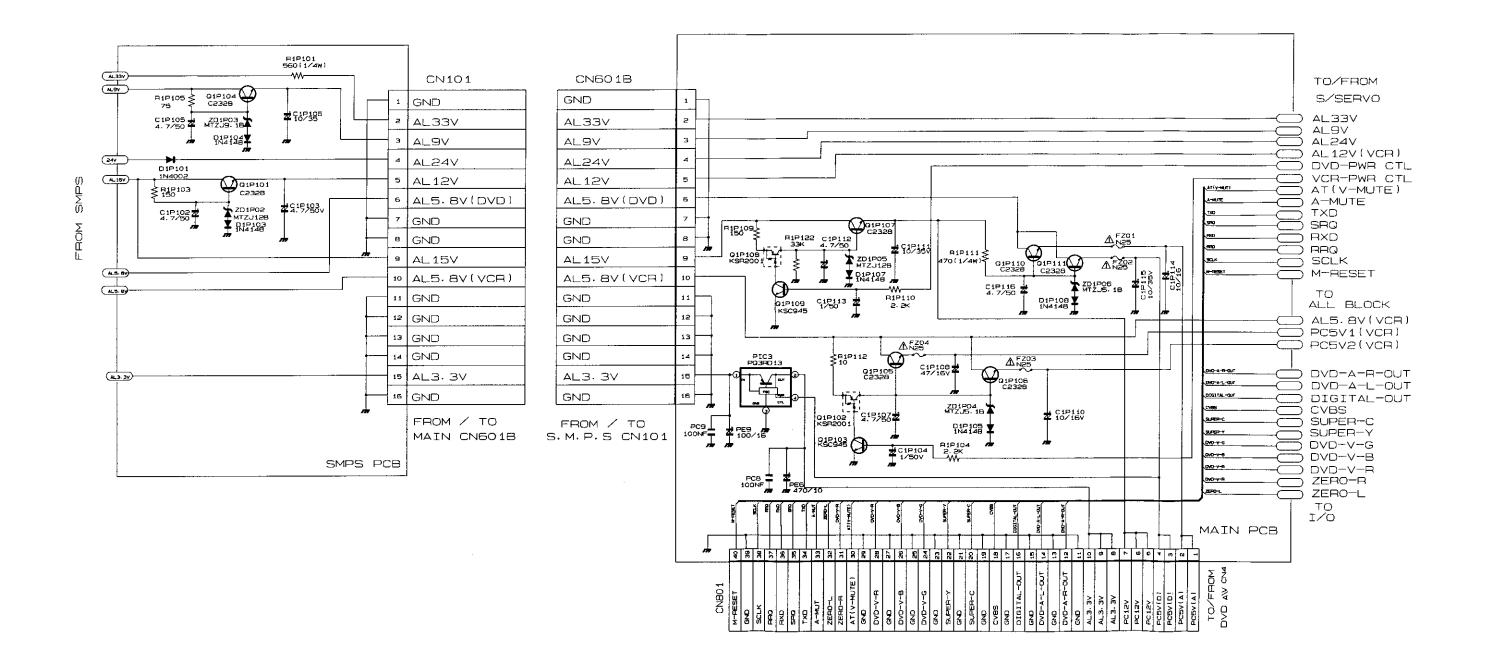
Important safety notices :

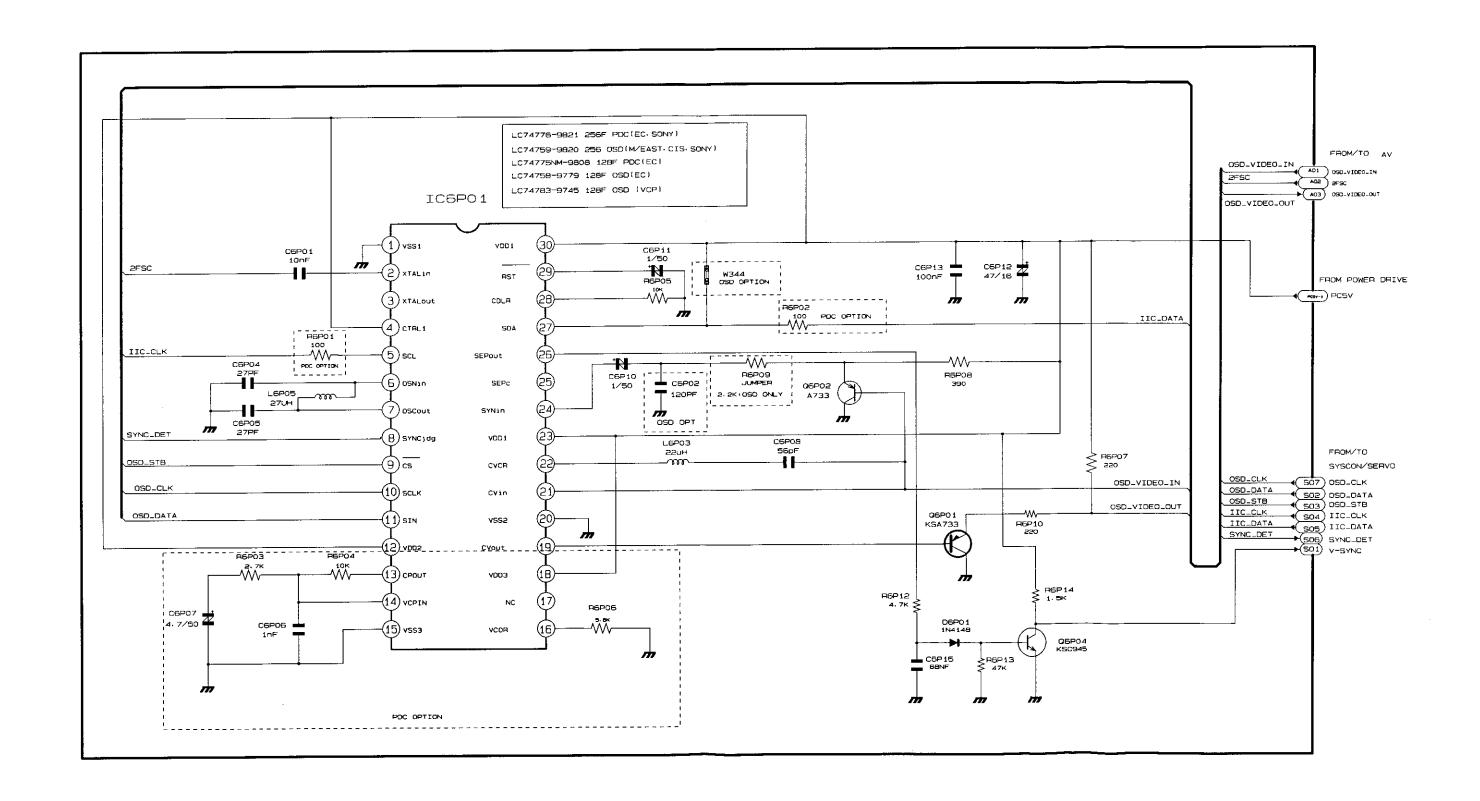
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components. Use only the same type.

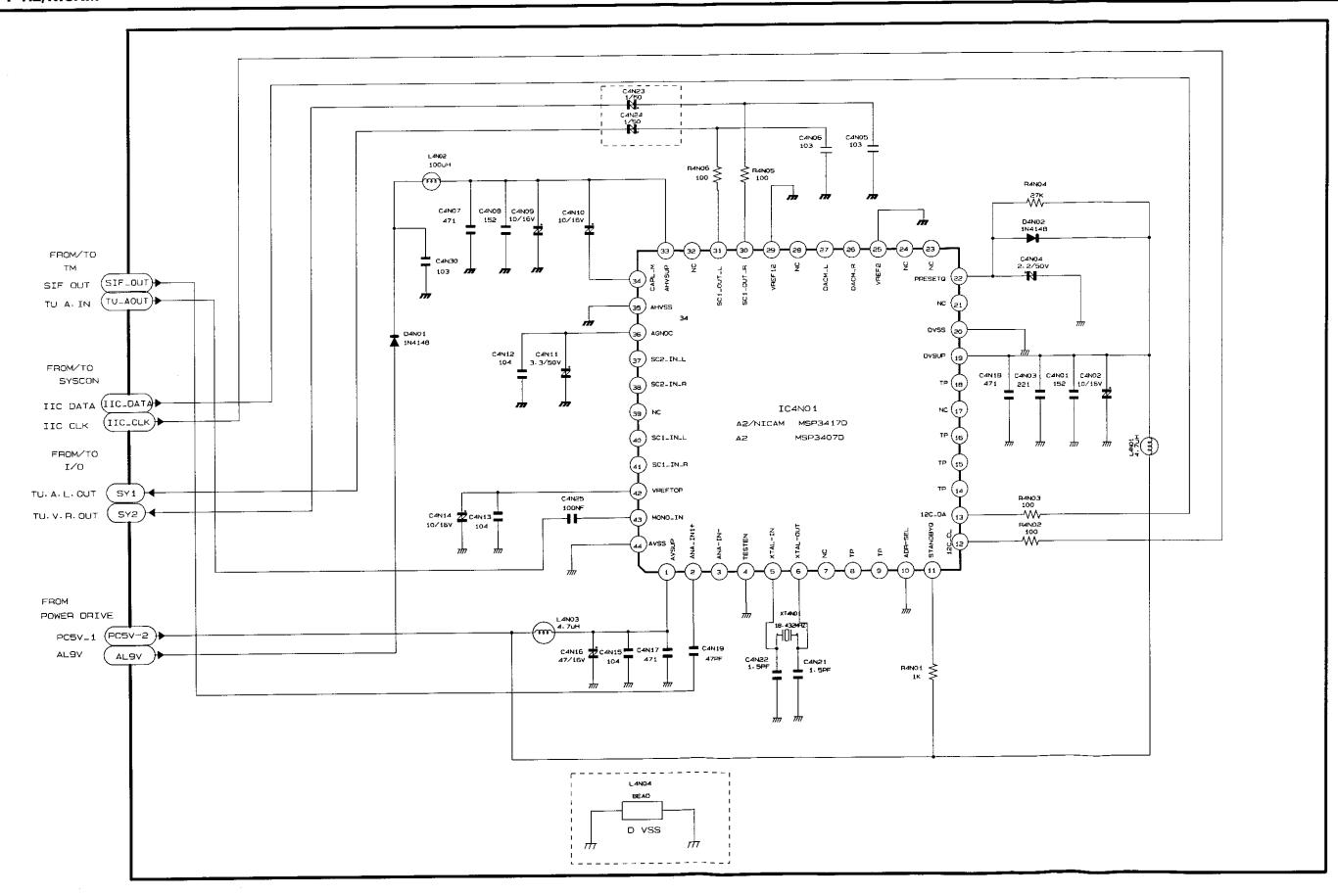
◆ BLOCK IDENTIFICATION OF MAIN PCB

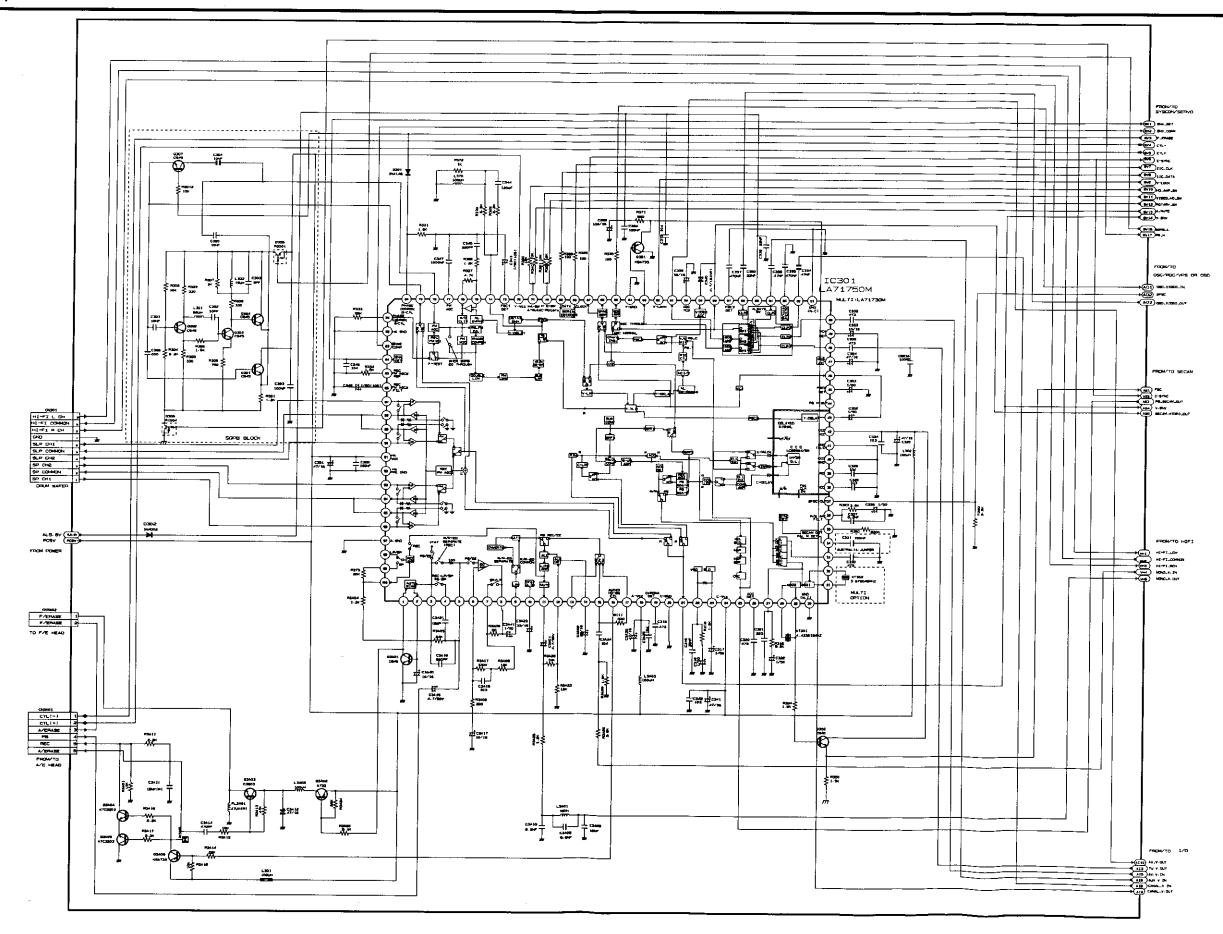


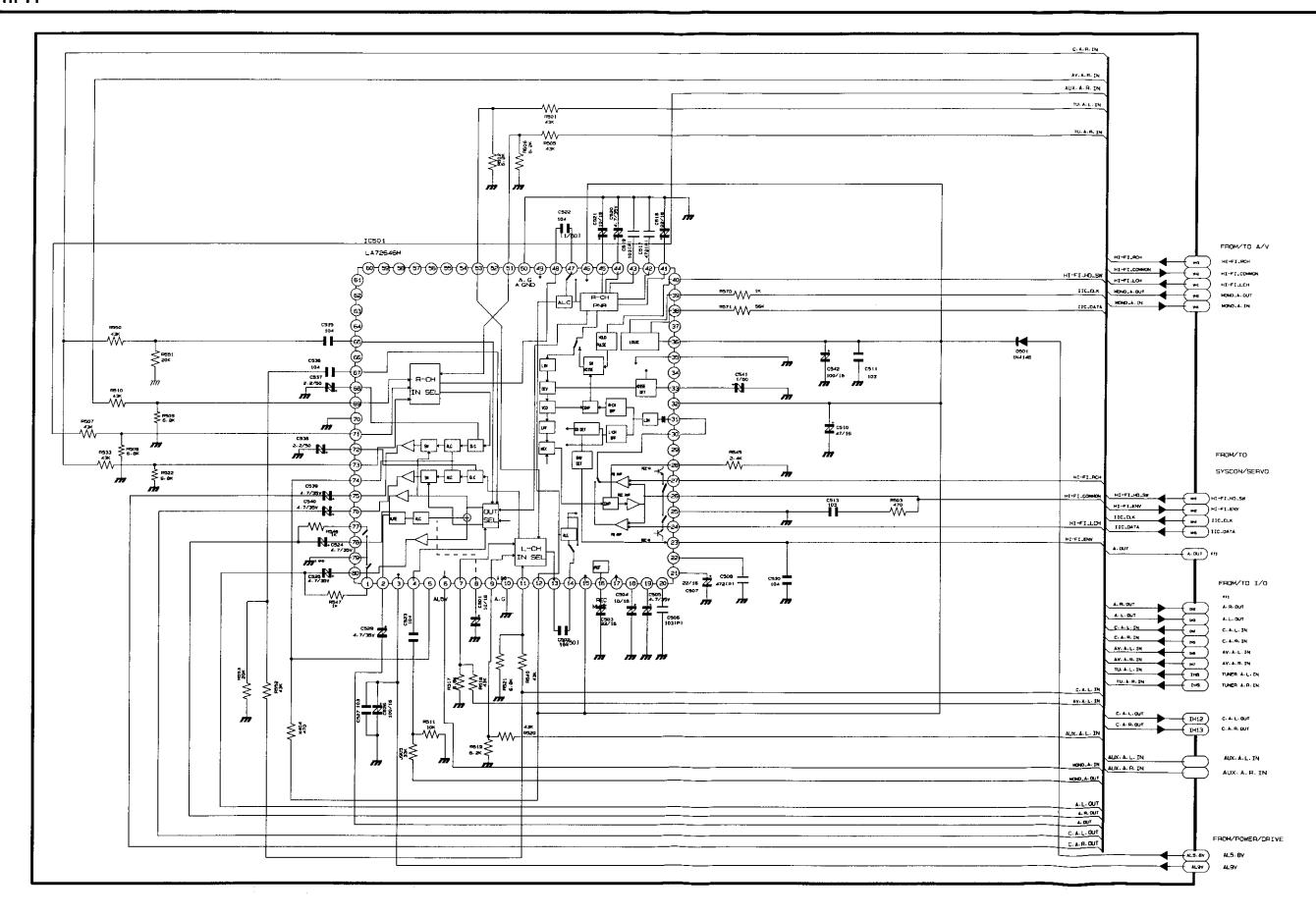


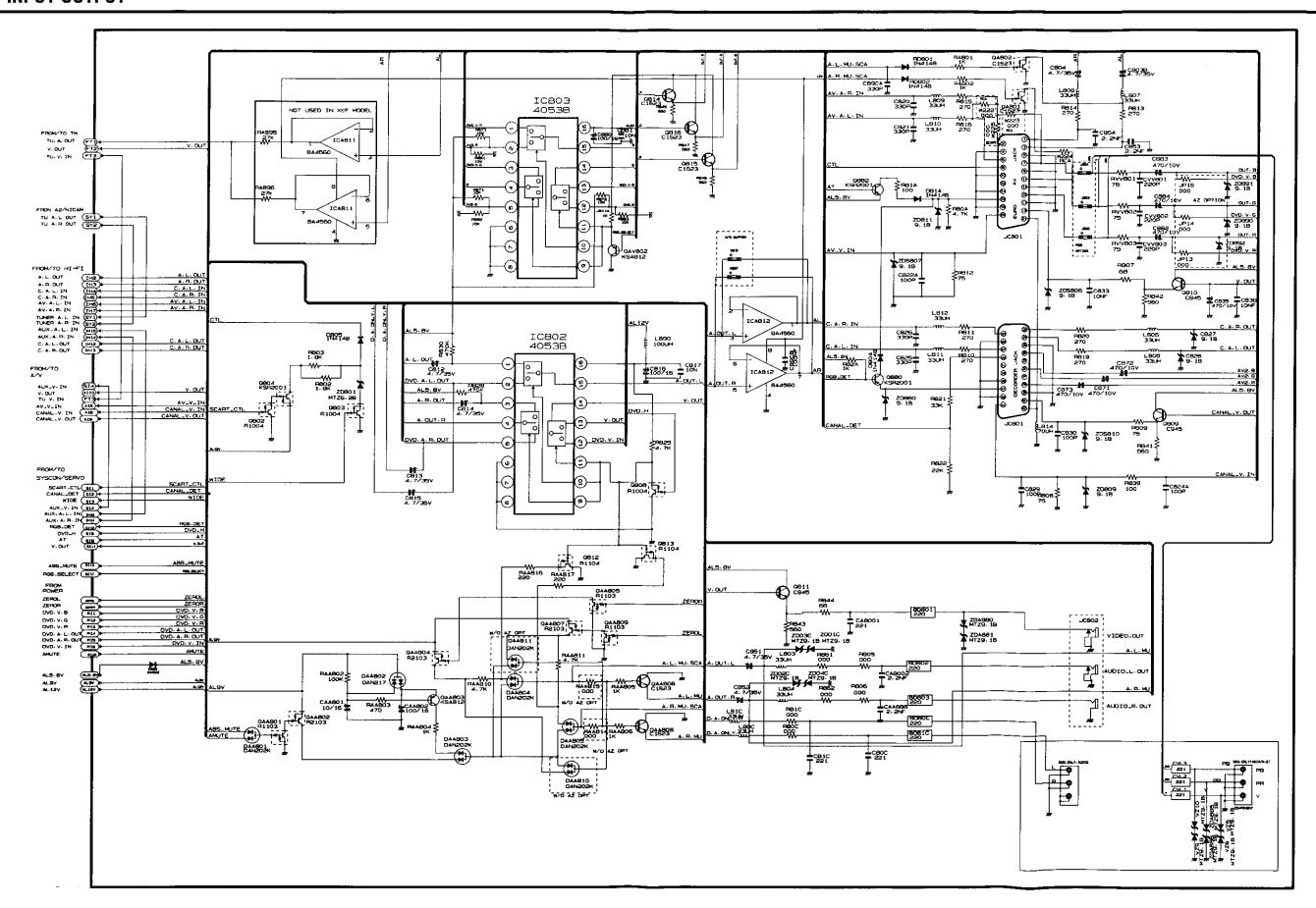


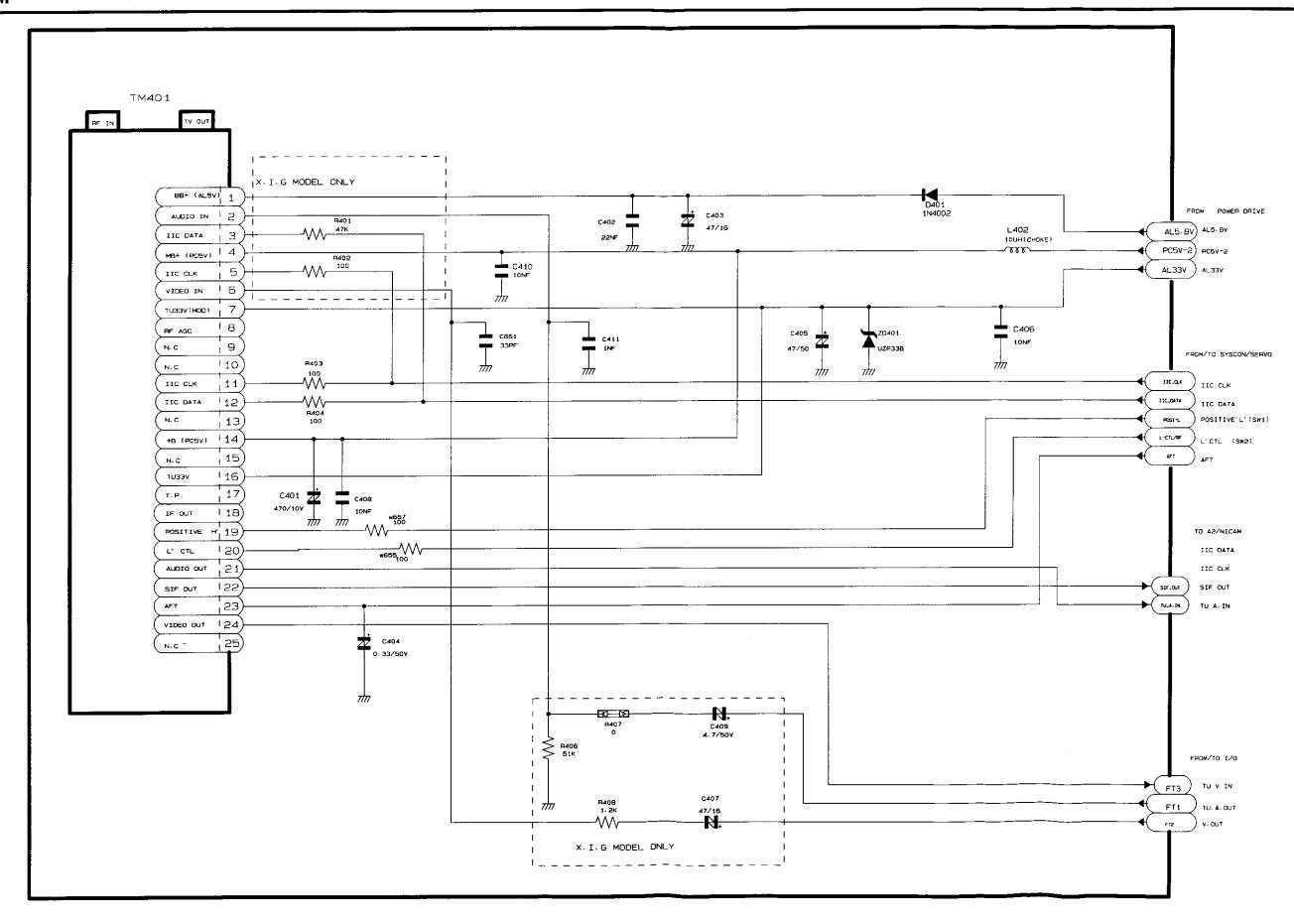


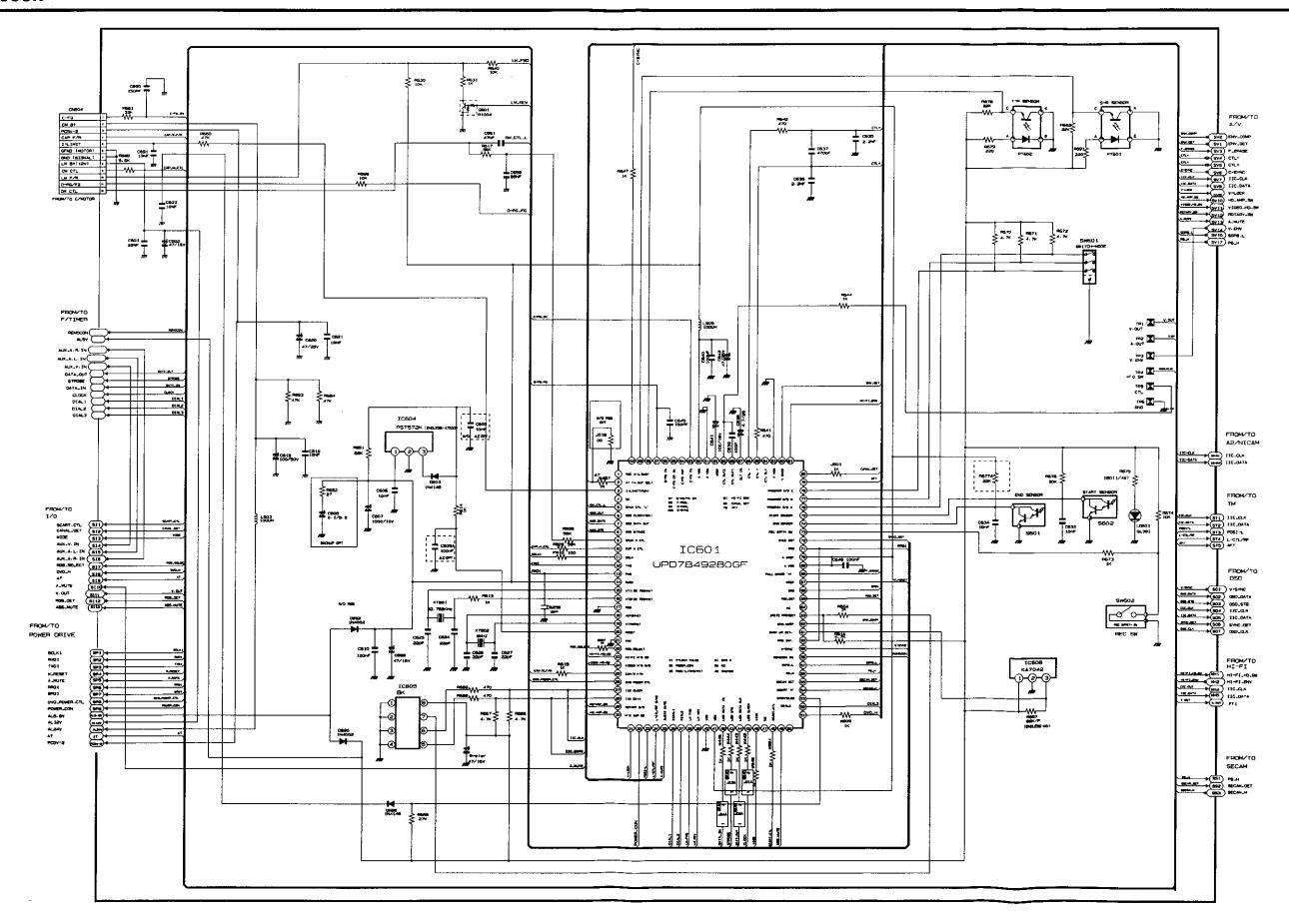


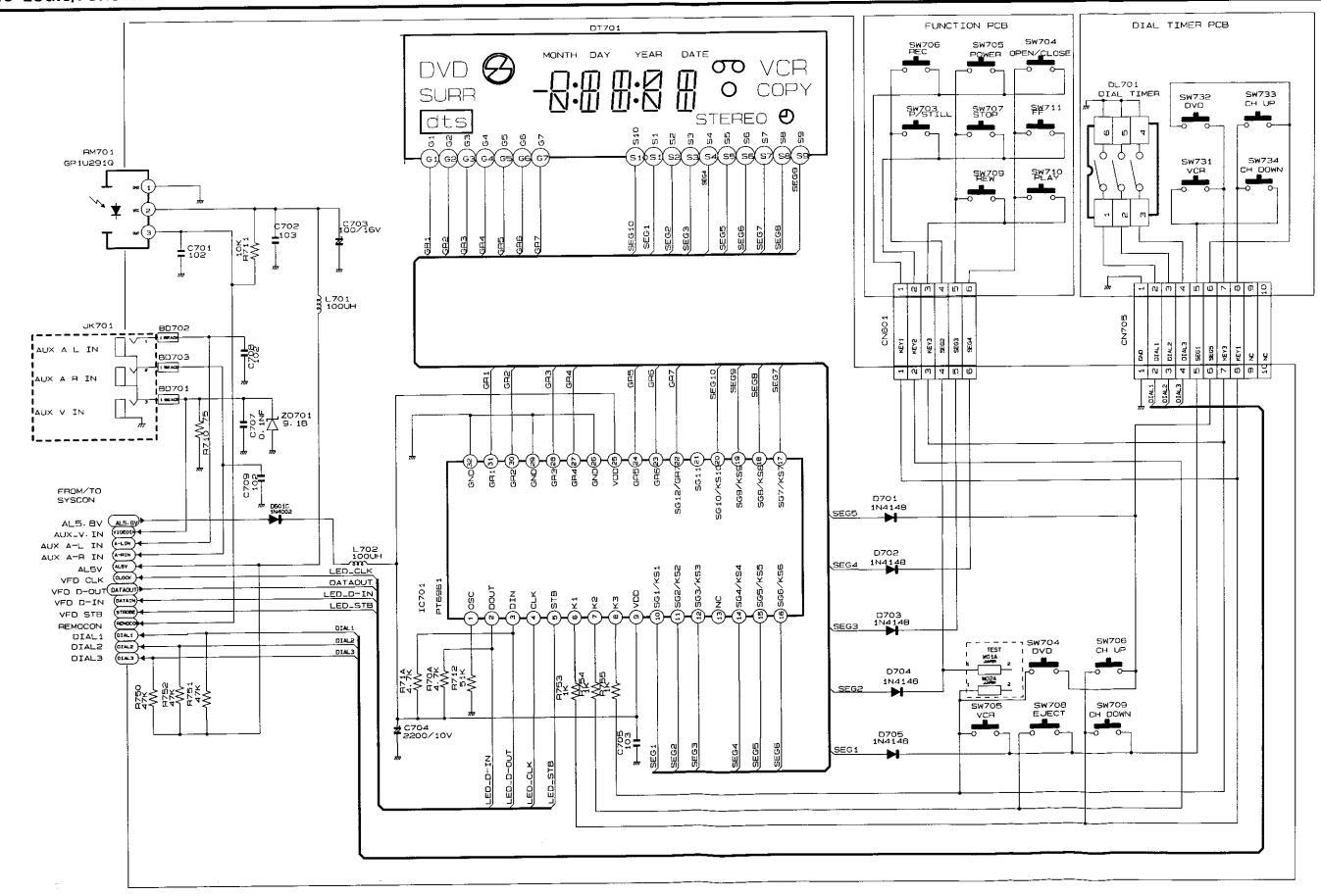


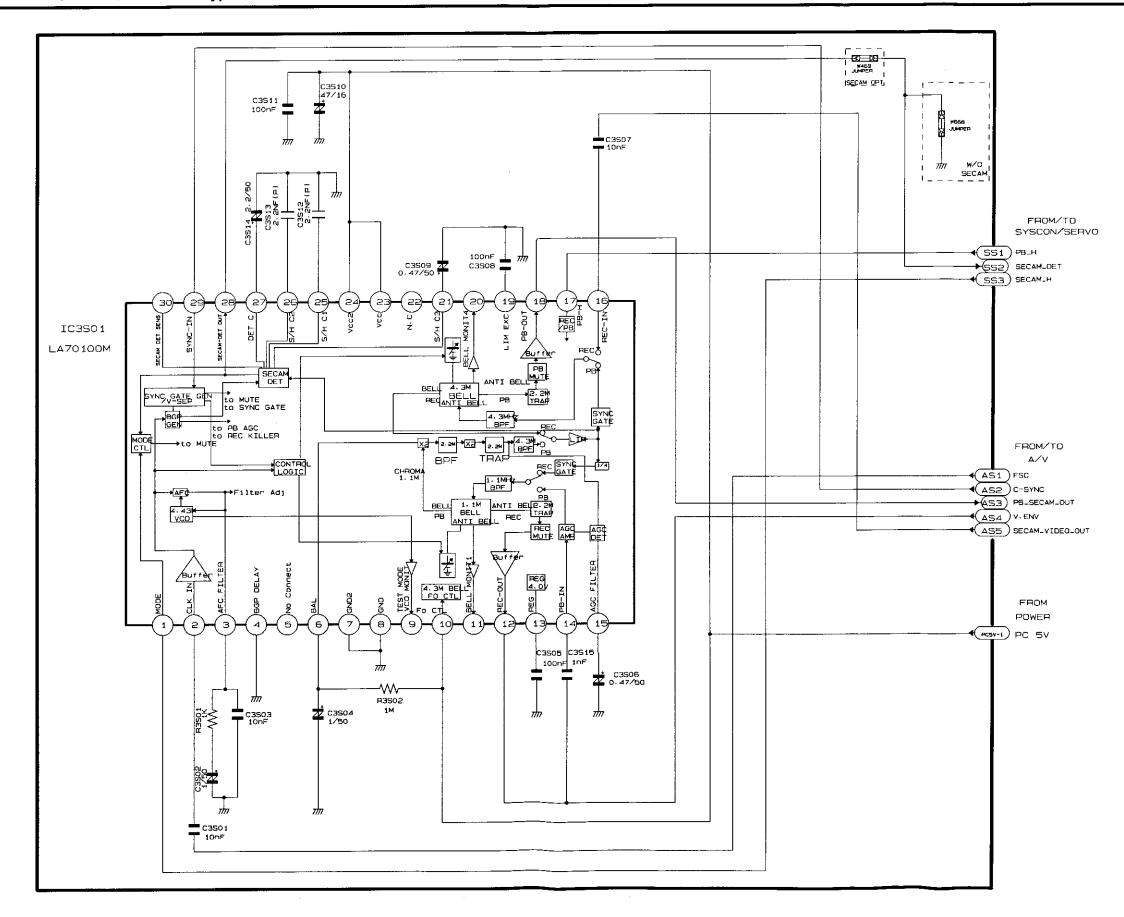


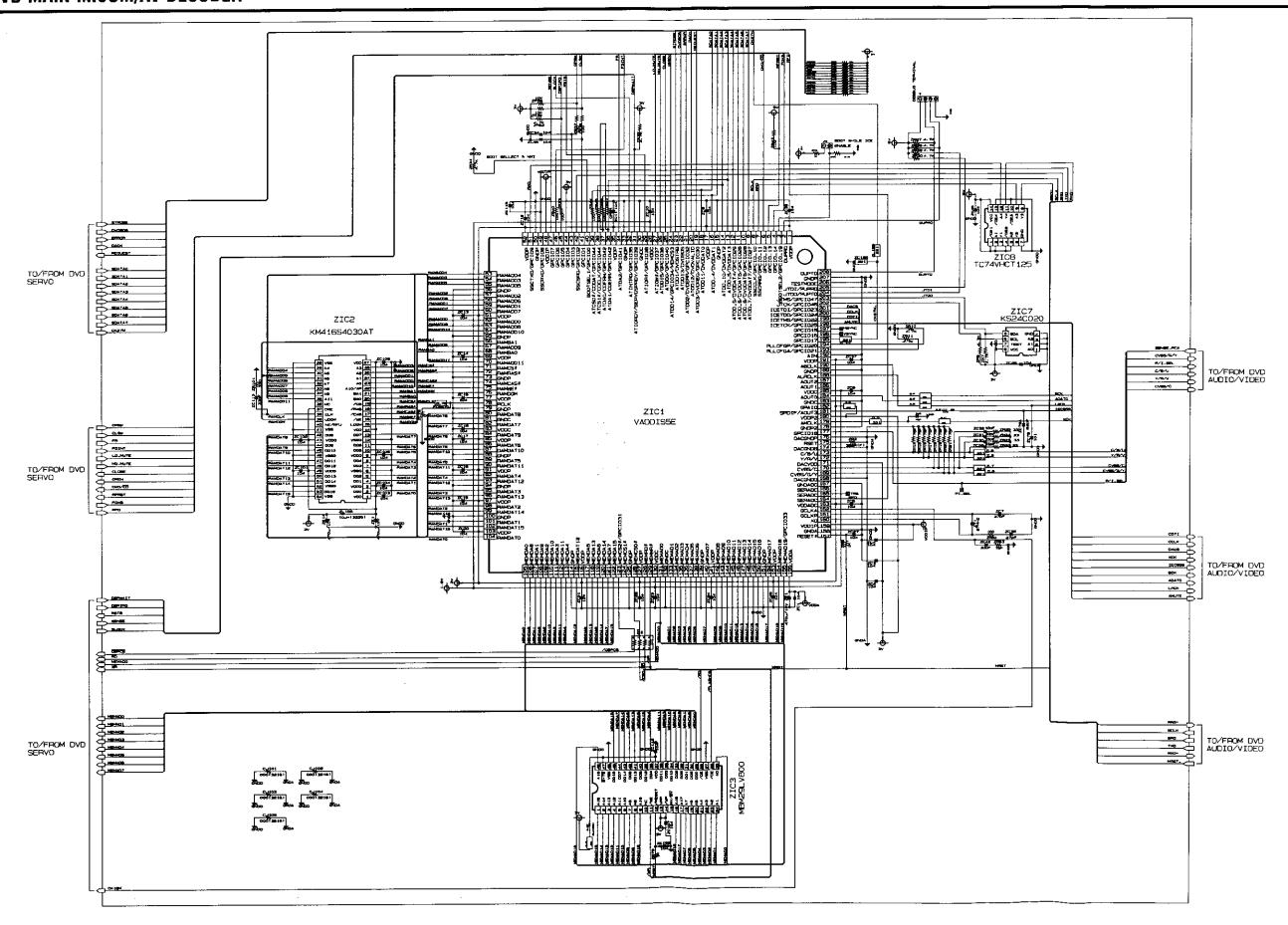


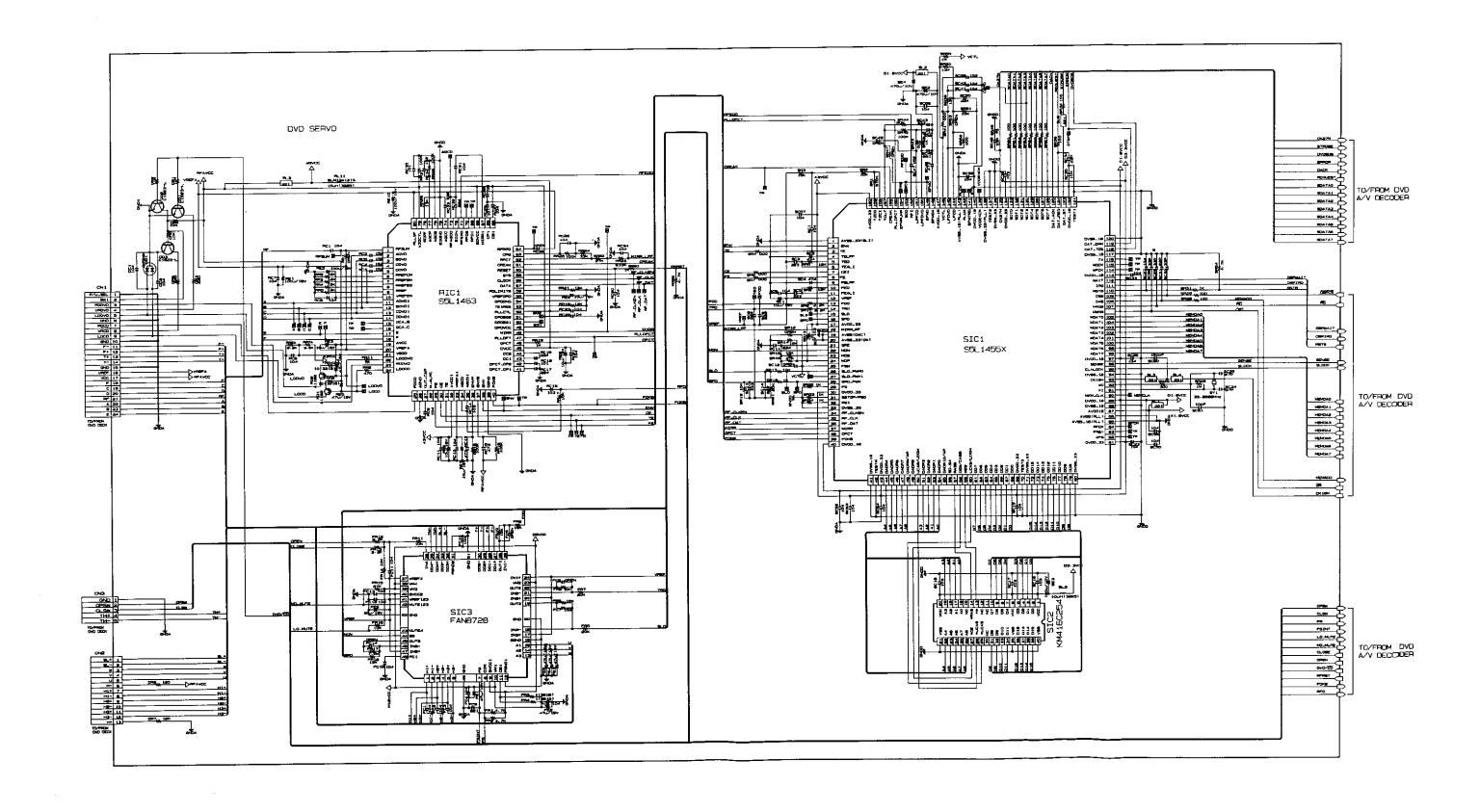


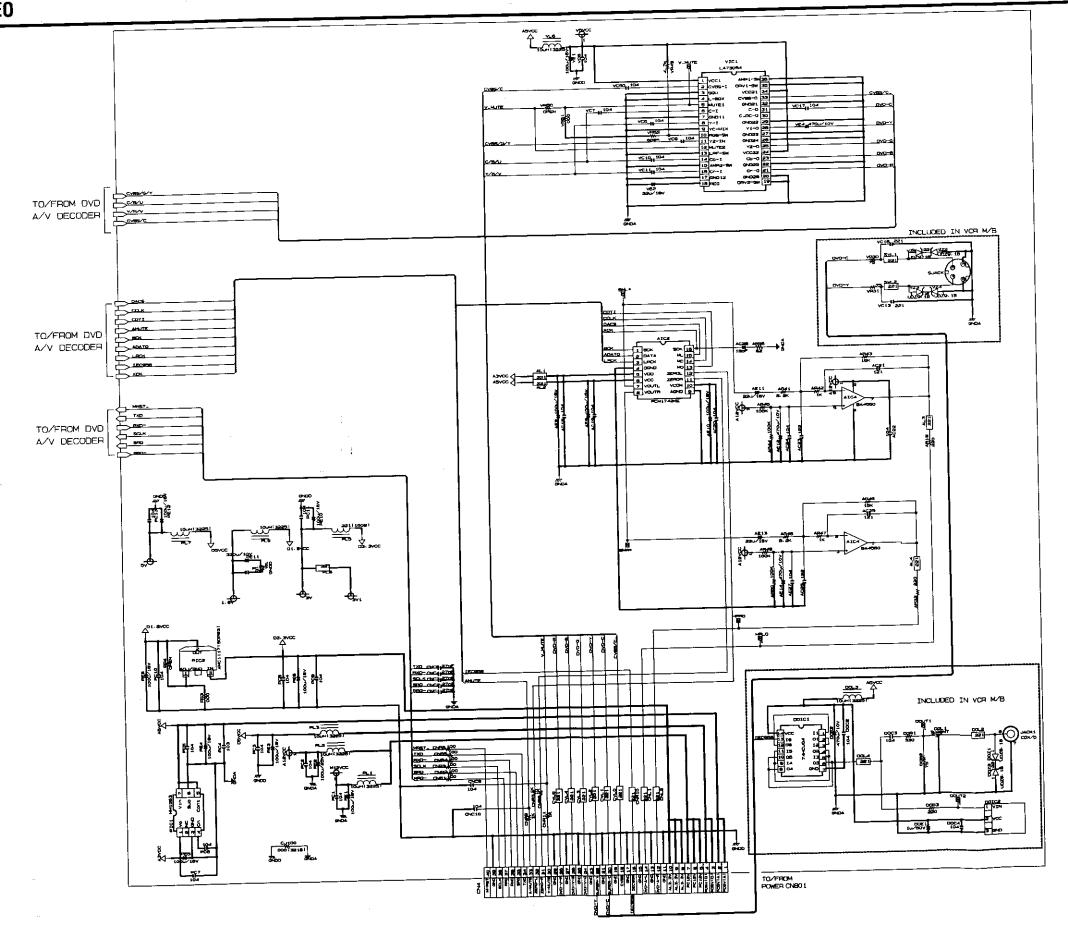












6. ALIGNMENT AND ADJUSTMENTS

6-1 VCR ADJUSTMENT

6-1-1 Reference

- 1) X-Point (Tracking center) adjustment, "Fazed switching adjustment" and "MVRAM option setting" can be adjusted with remote control.
- When replacing the Main PCB Micom (IC601) and NVRAM (IC605: EEPROM) be sure to adjust the "Head switching adjustment" and "NVRAM option setting".
- 3) When replacing the cylinder ass'y, he sure to adjust the "X-Point" and "Head switching adjustment".
- 4) How to adjustment.
- Intermittently short circuit the Test Point on Main PCB with pincers to the adjustment mode.
- if the corresponding adjustment button is pressed, the adjustment is performed automatically,
- If the adjustment is completed, be sure to turn the power off.

6-1-1(a) Location of adjustment button of remote control

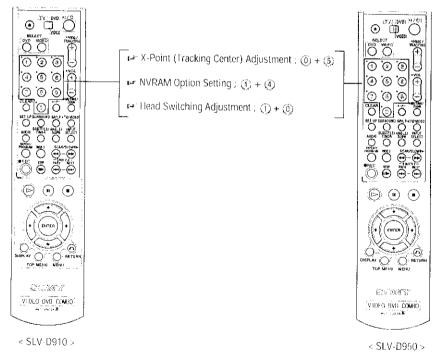


Fig. 6-1

6-1-1(b) TEST location for adjustment mode setting

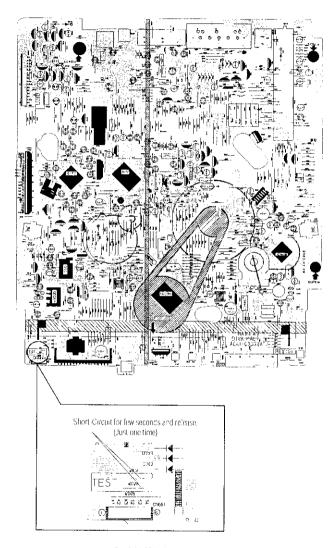


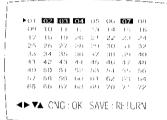
Fig. 6-2 VCR Main PCB (Top View)

6-1-2 Head Switching Point Adjustment

- 1) Playback the alienment tape.
- 2) intermittently short-circuit the two Test Peiras on VCR Main PCB while setting the adjustment mode, (See Fig. 6-2)
- 3) Press the "1, 5" buttons: remote control adjustment operates automatically, (See Fig. 6-1)

6-1-3 NVRAM Option Setting

- 3) NVRAM Option is adjusted in the factory.
- In case Main PCB Microm (IC601) and MVRAM (IC605 ; EEPROM) are replaced, be sure to set the corresponding option number of the required model. (If the option is not set, that unit, will operate.)
- 1) Intermittently short-circuit the two Test Points on VCR Main PCB, (See Fig. 6-2)
- 2) Press the "1, 4" buttons on the remote control. The option setting is appears. (See Fig. 6-3)
- Select the option number (See table 6-1) of corresponding model with "♠, ♠, ♠, ♠ "buttons on the remote control.
- After selecting the option number is completed, press the "ENFER" button of remote control. (II"ENTER" button is pressed, the selected number is changescolor. (See Fig. 6-4)
- 5) Press the "RETURN" button of remote control again to store the option number.
- 61. Tun; the Power off:



Tig. 8-3

► OI	02	03	.04	Ob	UG	07	(3)3
OB	10	1.1	1.2	13	14	15	16
- 17	113	15)	20	21	22	23	24
25	26	27	233	291	30	3.1	3.2
33	34	35	36	37	38	30	40
4.1	-4.2	43	44	45	46	4.7	48
45)	50	5.1	52	63.34	54	55	56
57	5/1	.59	BO	6.1	62	6.3	64
6.5	EriS	67	GB	69	70	7.1	12

Fig. 6-4

<Table 6-1 NVRAM Option Table>

MODEL	OPTION NUMBERS
SIV-D950F	2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 32, 34, 35, 38, 40, 42, 45, 47, 60, 61, 63, 64, 69, 70, 72
S.V Dange	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 32, 34, 35, 38, 40, 42, 45, 47, 60, 61, 63, 63, 70, 72
StV-05508	2. 4. 5. 6, 7, 8, 8, 10, 11, 12, 13, 15, 20, 21, 26, 32, 33, 34, 35, 36, 38, 40, 45, 47, 60, 61, 63, 64, 68, 70, 72
SIV-09103	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 20, 21, 26, 32, 33, 34, 35, 36, 38, 40, 45, 47, 60, 61, 63, 69, 70, 72
SLV D950Qi	3, 4, 5, 6, 6, 9, 10, 11, 12, 13, 15, 25, 26, 32, 33, 34, 35, 38, 40, 41, 45, 47, 60, 61, 63, 64, 69, 70
S.V 0910N	1. 5 6 7, 8, 9, 10 11, 12, 13, 15, 20 32, 36, 38 42, 45, 47 60, 61, 63, 69, 78, 72
STV-D910R	5 7 8 9 10. 11 12, 13, 15, 20, 32, 36, 37, 39, 42, 45, 47, 60 61, 63, 69 70
SEV-DationZ	5 7 8 9, 30 12 15, 25, 26 27, 32, 33, 35, 36, 39, 42, 45, 47, 53, 60, 61, 63, 64, 70

6-2 DVD ADJUSTMENT

6-2-1 Location of Test Point

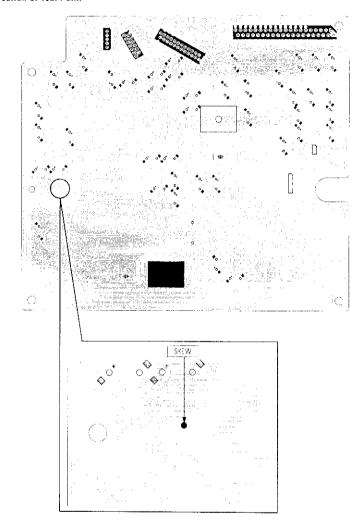


Fig. 6-5 Location of test Point (DVD Main PCB - Bottom Side)

6-2-2 Skew Adjustment

6-2-2(a) Adjustment Spec. and Test Point

< ldule 0-2 >								
Test Disc	Adjustment Spec.	Test Point	Adjustment Location					
TDV-533		"SKEW"	Ass'y Deck - Top Side					
Chapter 14	Flat Waveform	(DVD Main PCB - Bottom Side)	(See Fig. 6-6)					
(P/N: J-6090-135-A)		(See Fig. 6-5)						

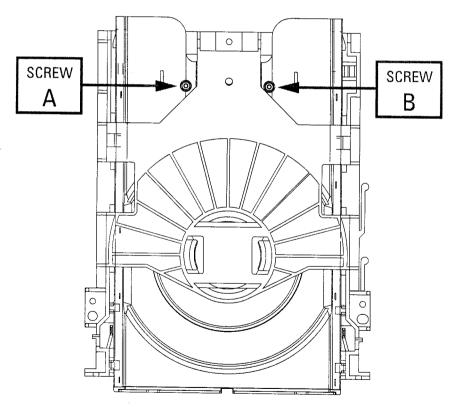


Fig. 6-6 Ass'y Deck (Top Side)

6-2-2(b) SKEW Adjustment Method

Needed to minimize the variations in Skew of the Pickup unit and to provide optimum match with the recorded signal on the Disc.

- Connect an Oscilloscope to the "SKEW" Test Point (See Fig. 6-5).
 Connect Power, Open the Tray and Play the TDV-533 Disc, Chapter 14.
- ◆ Set the Oscilloscope Range as follows :

- Set the Cscrinoscope Range as follows:
 (Voltage; 50mVDto, Frequency; 10m Sec.)
 Adjust the Screws "A" and "B" (See Fig. 6-6) using a Hex screwdriver until you obtain a Flat Waveform and the picture is stable. Then, go to Chapter 1 and make sure the Waveform is Flat here as well.
 - If not, you have to go back to Chapter 14 and adjust again.

 If you cannot obtain a Flat waveform, then the unit is defective.

Note: The Deck must be in a horizontal position. Use both "A" and "B" screws to adjust.

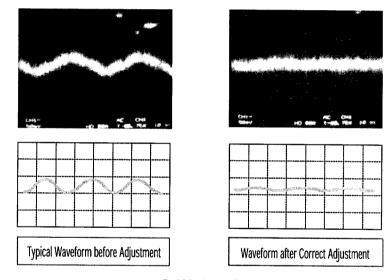


Fig. 6-7 Envelope Waveform

6-3 VCR MECHANICAL ADJUSTMENT

6-3-1 Tape Transport System and Adjustment Locations

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the following:

- 1) Noise observed on the screen.
- 2) Tape damage.
- 3) Parts replacement in the tape transport system.

Lower flange height of tape guide is used as the reference for the transport adjustment. To maintain the height of the tape guide and prevent damage, do not apply excessive force onto the main base.

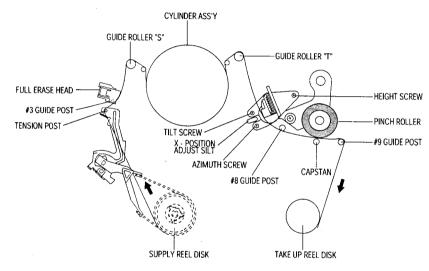


Fig. 6-8 Location of Tape Transport Adjustment

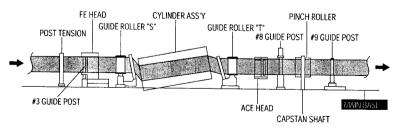


Fig. 6-9 Tape Travel Diagram

6-3-2 Tape Transport System Adjustment

When parts are replaced, perform the required adjustments by referring to procedures for the tape transport system. If there are any changes to the tape path, first run a T-120 tape and make sure excessive tape wrinkle does not occur at the tape guides.

- ◆ If tape wrinkle is observed at the guide roller S, T, turn the guide roller S, T until wrinkle disappears.
- ◆ If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the ACE head.

(1) ACE Head Assembly Adjustment

- a. ACE HEAD HEIGHT ADJUSTMENT
- 1) Run the alignment tape (Color bar) in the playback mode.
- 2) Observe surface of the audio head using a dental mirror.
- Turn screw (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25mm. (Refer
 to Fig. 6-10 and 6-11)

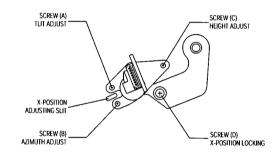


Fig. 6-10 Location of ACE Head Adjustment Screw

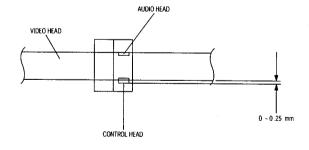


Fig. 6-11 ACE Head Height Adjustment

b. ACE HEAD TILT ADJUSTMENT

- 1) Playback a blank tape and observe the position of the tape at the lower flange of tape guide.
- 2) Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig. 6-12 (B).
- 3) If a curl or wrinkle of the tape occurs, slightly turn the screw (A) tilt adjust on the ACE head ass'y.
- 4) Reconfirm the ACE head height.

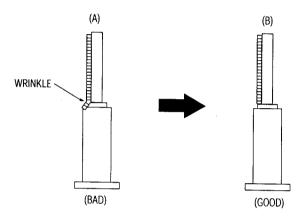


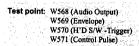
Fig. 6-12 Tape Guide Check

c. AUDIO AZIMUTH ADJUSTMENT

- 1) Load alignment tape (Mono scope) and playback the 6KHz signal.
- 2) Connect channel-1 scope probe to audio output.
- 3) Adjust screw (B) to achieve maximum audio level. (See Fig. 6-10)

d. ACE HEAD POSITION (X-POINT) ADJUSTMENT

- 1) Playback the alignment tape (Color bar)
- 2) Intermittently short-circuit the two Test Points on VCR Main PCB . (See Fig. 6-2)
- 3) Press the "0, 5" remote control buttons, then adjustment is operates automatically. (See Fig. 6-1)
 4) Connect the CH-1 probe to "Envelope" the CH-2 probe to "H'D switching pulse" and then trigger to CH-1.
- 5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.



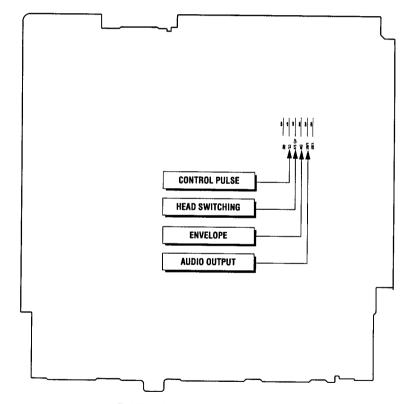


Fig. 6-13 Location of Test point (VCR Main PCB-Top View)

(2) Linearity adjustment (Guide roller S, T adjustment)

- 1) Playback the Mono Scope alignment tape (SP mode).
- 2) Observe the video envelope signal on an oscilloscope (triggered by the video switching pulse).
- 3) Make sure the video envelope waveform (at its minimum) meets the specification shown in Fig. 6-14.

 If it does not, adjust as follows:

Note:

- a=Maximum output of the video RF envelope.
- b=Minimum output of the video RF envelope at the entrance side.
- c=Minimum output of the video RF envelope at the center point.
- d=Maximum output of the video RF envelope at the exit side.
- 4) If the section A in Fig. 6-15 does not meet the specification, adjust the guide roller S up or down.
- 5) If the section B in Fig. 6-15 does not meet the specification, adjust the guide roller T up or down.

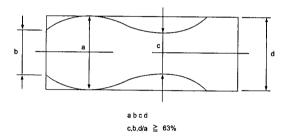


Fig. 6-14 Envelope Waveform Adjustment

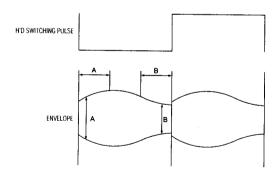


Fig. 6-15 Adjustment Points

- 6) Play back the Mono Scope alignment tape (SP mode).
- 7) Connect an oscilloscope CH-1 to the "Envelope" and CH-2 to the "H'D SW Pulse" for triggering.
- 8) Turn the guide roller heads with a flat head () driver to obtain a flat video RF envelope as shown in Fig. 6-16.

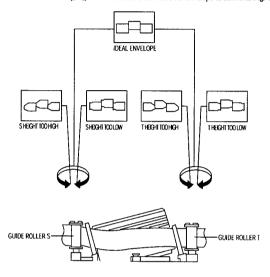


Fig. 6-16 Guide Roller S, T Height Adjustment

(3) Check Transitional Operation from RPS to Play

Check transition from RPS mode to play mode: Using a pre-recorded SP tape, make sure the entry side of envelope comes to an appropriate steady state within 3 seconds (as shown in Fig. 6-17).

If the envelope waveform does not reach specified peak-to peak amplitude within 3 seconds, adjust as follows:

- 1) Make sure there is no gap between the supply roller lower flange and the tape.
- If there is a gap, adjust the supply guide roller again.
- 2) Change operation mode from the RPS to the play mode (again) and make sure the entry side of envelope rises within 3 second.

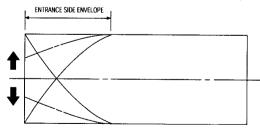


Fig. 6-17 Video Envelope Rising when Operation mode Changes from RPS to Play Mode

(4) Envelope Check

Make recordings on T-120 (E-120) and T-160 (E-180) tape.
 Make sure the playback output envelope meets the specification as shown in Fig. 6-18.

2) Play back a self recorded tape (recording made on the unit using with T-120 (E-120). The video envelope should meet the specification as shown in Fig. 6-18. In SP mode, (A) should equal (B).

If the head gap is wide, upper cylinder should be checked.

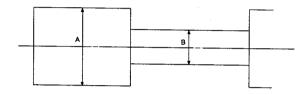


Fig. 6-18 Envelope Input and Output Level

(5) Tape Wrinkle Check

- 1) Run the T-160 (E-180) tape in the playback, FPS, RPS and Pause modes and observe tape wrinkle at each guide.
- 2) If excessive tape wrinkle is observed, perform the following adjustments in Playback mode:
- ◆ Tape wrinkle at the guide roller S, T section : Linearity adjustment.
- ◆ Tape wrinkle at tape guide flange : ACE head assembly coarse adjustment.

6-3-3 Reel Torque

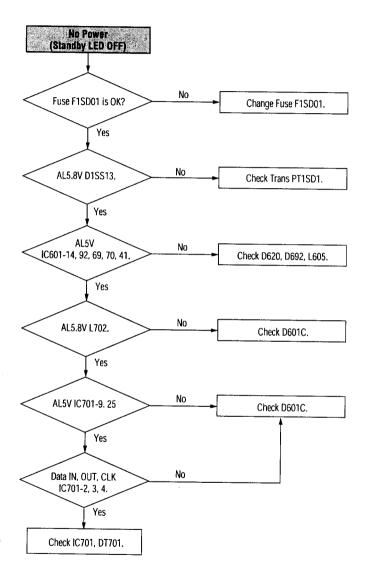
- 1) The rotation of the capstan motor causes the holder clutch ass'y to rotate through the belt pulley.
- 2) The spring wrap PLAY/REV of holder clutch ass'y drives the disk reel S, T through gear idler by rotation of gear center ass'y.
- 3) Brake is operated by slider cam at FF/REW mode.
- 4) Transportation of accurate driving force is done by gears. (Gear Center Ass'y)

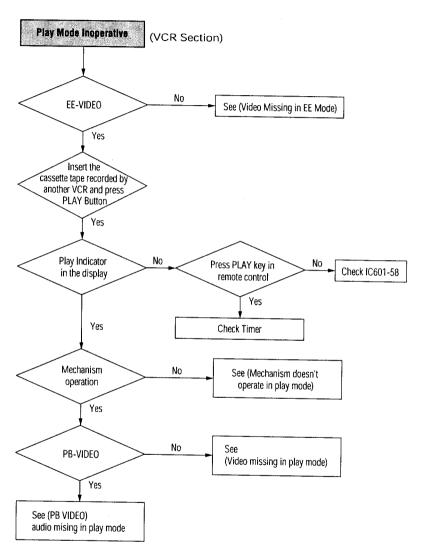
Note: If the spec. does not meet the followings specifications, replace the holder clutch ass'y and then recheck.

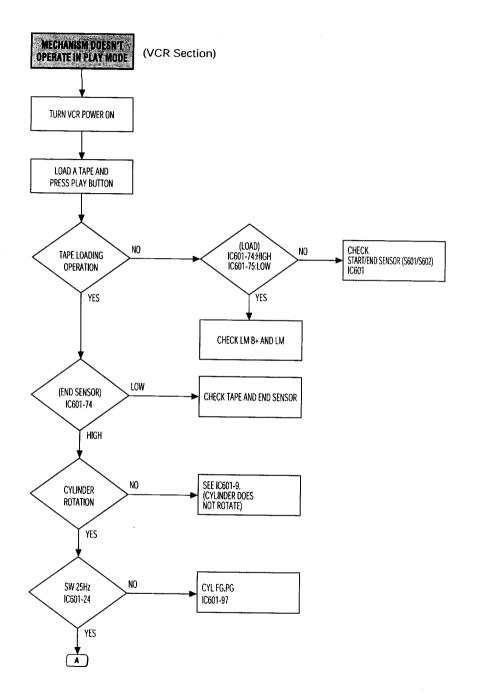
< Table 6-3 >

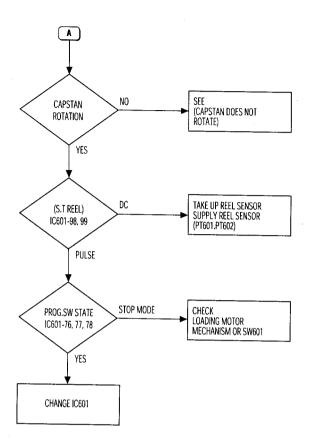
MODE	TORQUE g/cm	GAUGE		
PB	42 ± 11	Cassette Torquemeter		
RPS	145 ± 30	Cassette Torquemeter		

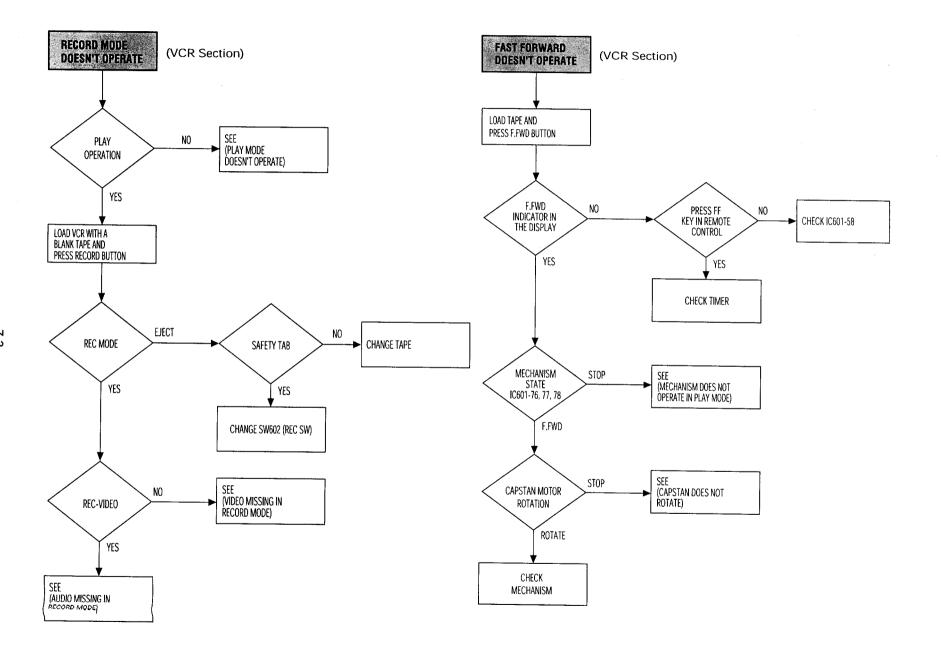
MEMO

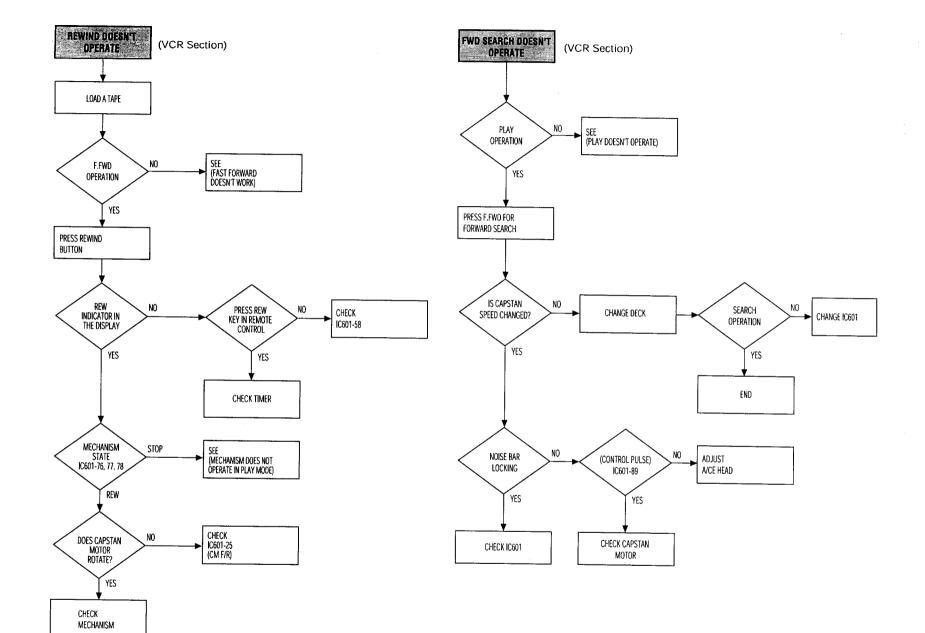


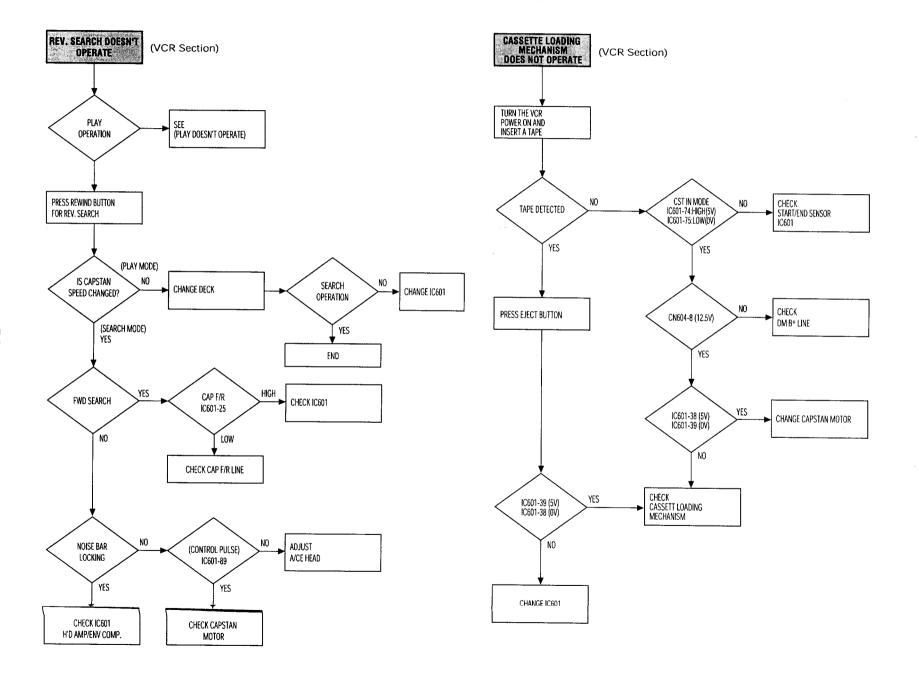


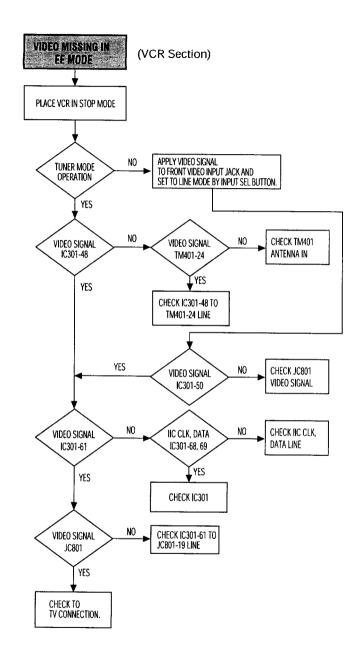


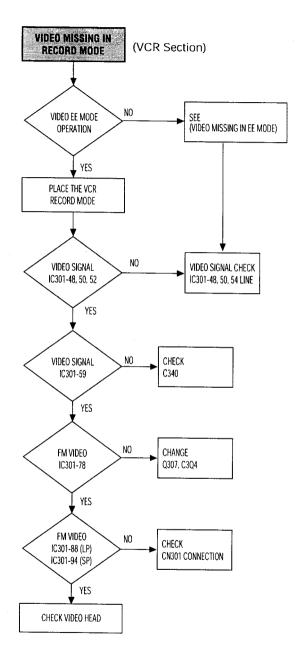


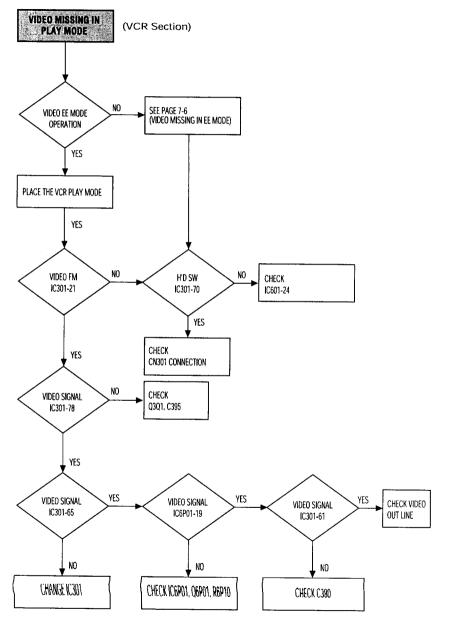


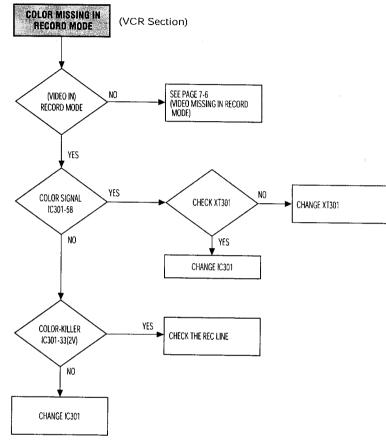


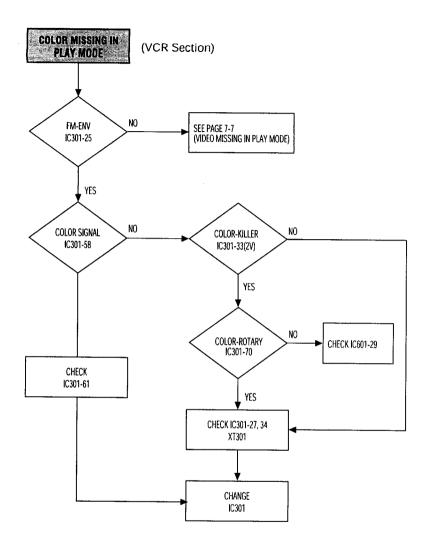


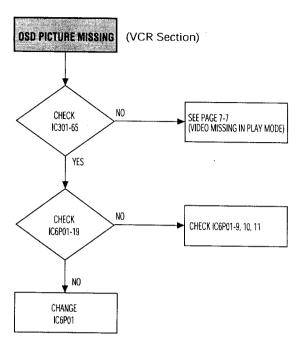


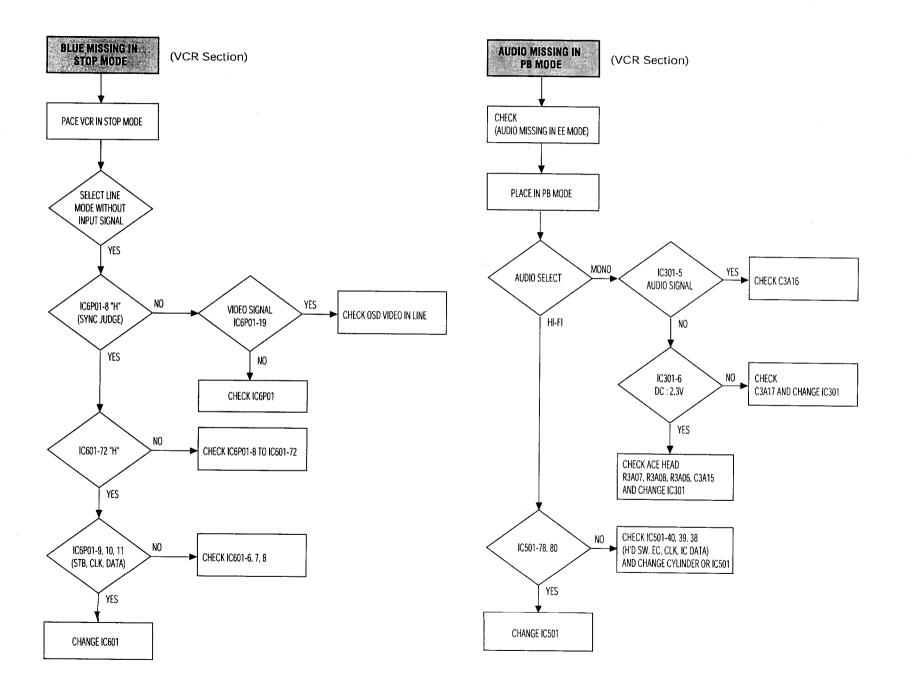


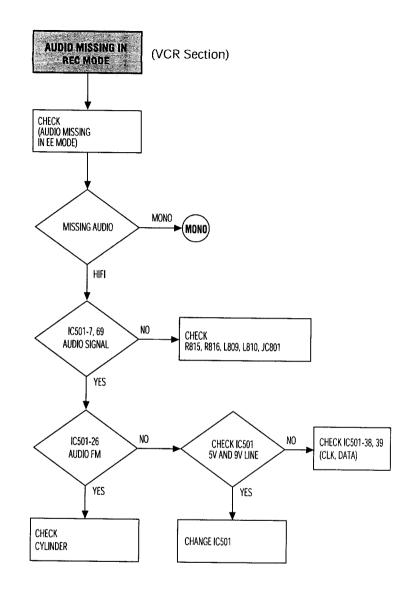


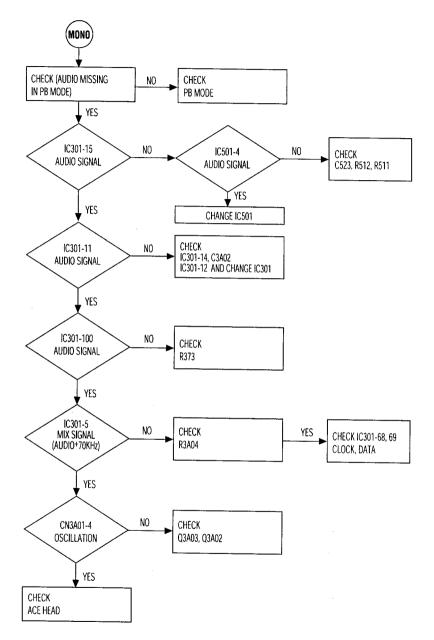


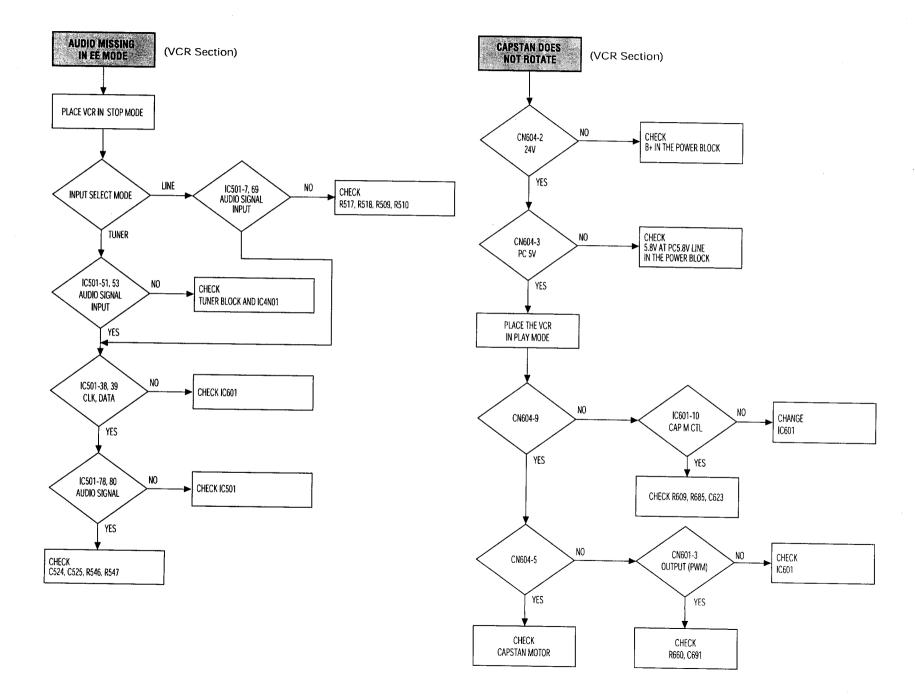


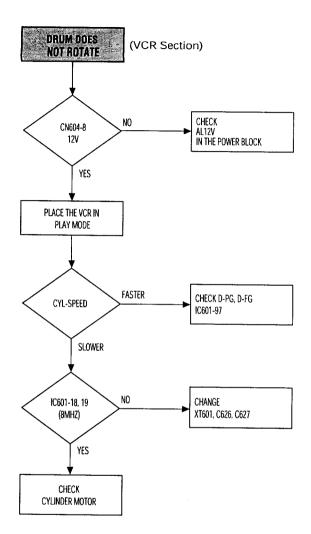






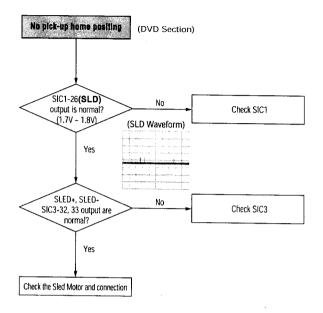


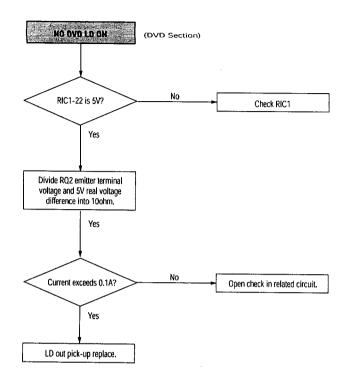


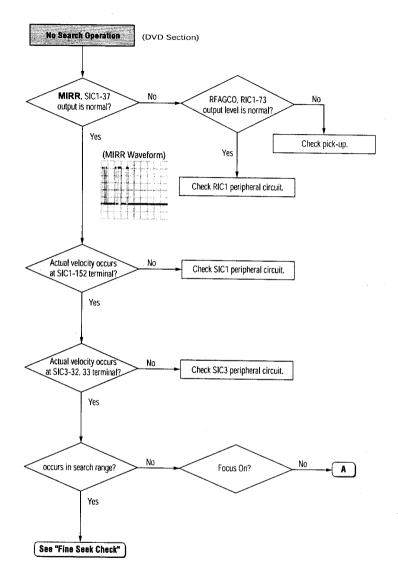


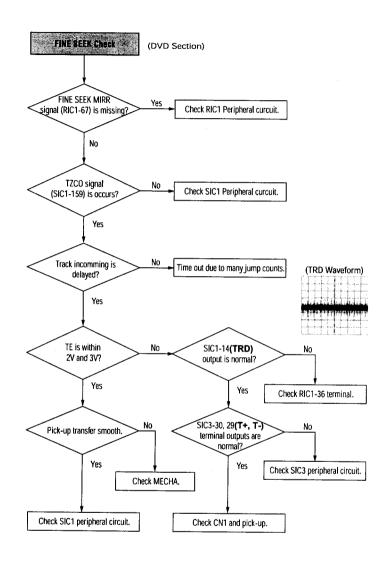
(DVD Section)

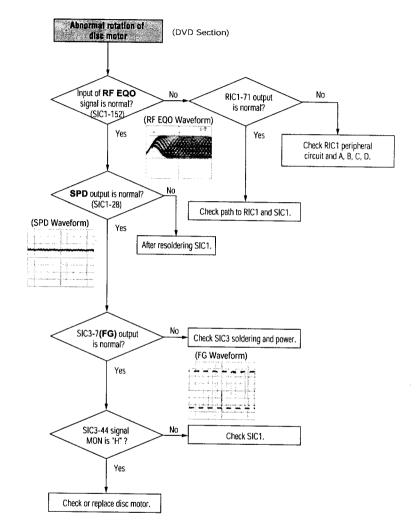
No focus incoming

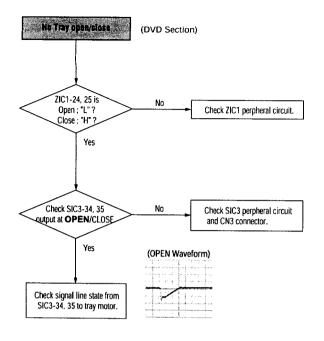


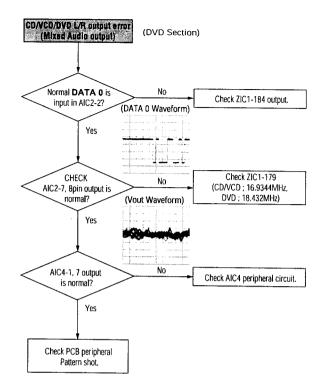


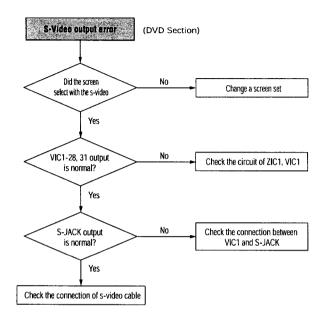


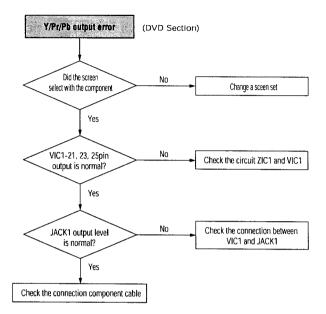


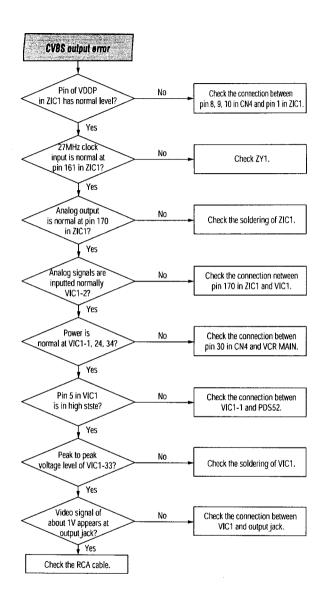












SLV-D910AZ/D910B/D910E/D910N/D910R/ D950B/D950E/D950GI

8. REPAIR PARTS LIST

8-1 Exploded Views	8-2
8-1-1 Cabinet Assembly	8-2
8-1-2 VCR Mechanical Parts (Top Side)	8-4
8-1-3 VCR Mechanical Parts (Bottom Side)	8-5
8-1-4 DVD Mechanical Parts	8-6
8-2 Electrical Parts List	8-7

8-1 EXPLODED VIEWS

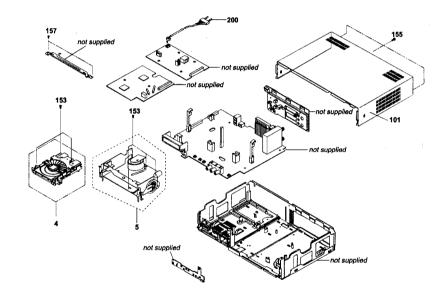
- NOTE:

 XX, -X mean standardized parts, so they may have some differences from the original one.

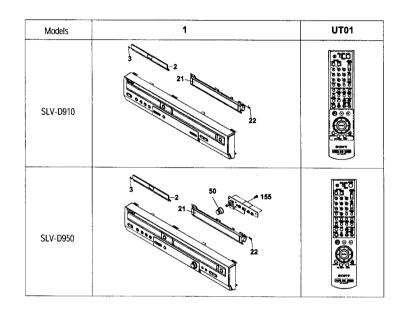
 I term smarked """ are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied,

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

8-1-1 Cabinet Assembly

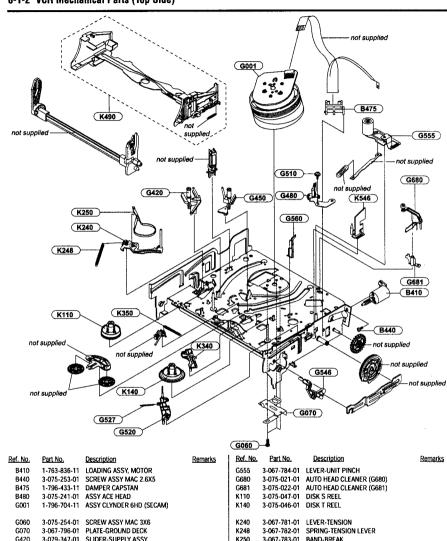


Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
4	9-885-037-38	ASSY DVD DECK		155	3-078-566-01	SCREW TAP M3 L10 BLK	
5	3-084-083-01	ASSY DECK		157	3-075-262-01	SCREW BH 4X12	
101		CASE (COMBO PAL), UPPER	ļ	₫ 200	1-823-023-11	POWER CORD KKP419C (EXCEPT D95	50GI)
153	3-075-256-01	SCREW TAP 3X12	l	₾ 200	1-823-025-11	POWER CORD Y352 (D950GI)	



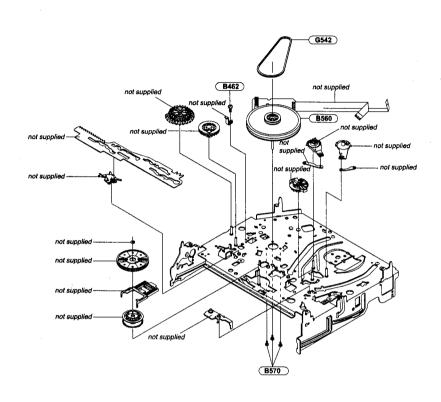
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	9-885-043-21	ASSY PANEL FRONT (D910B/D91	0E/D910N)	21	9-885-037-26	DOOR CASSETTE	
1	9-885-043-22	ASSY PANEL FRONT (D950B/D95	OE)	22	9-885-037-13	SPRING ETC MASK	
1	9-885-043-23	ASSY PANEL FRONT (D950GI)		50	9-885-040-31	DIAL SHUTTLE VR1 (D9	50B/D950E/D950GI/D910AZ)
1	9-885-043-24	ASSY PANEL FRONT (D910R)		UT01	9-885-043-07	COMMANDER (RMT-V50	(AA)
1	9-885-043-25	ASSY PANEL FRONT (D910AZ)		1		(D910B/D910I	E/D910N/D910R/D910AZ)
				UT01	9-885-043-08	COMMANDER (RMT-V50)3B)
2	9-885-037-27	DOOR TRAY		1		,	(D950B/D950E/D950GI)
3	9-885-037-28	SPRING ETC-DOOR TRAY		1			(,

8-1-2 VCR Mechanical Parts (Top Side)



			(G060)	-•		
Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1-763-836-11	LOADING ASSY, MOTOR		G555	3-067-784-01	LEVER-UNIT PINCH	
3-075-253-01	SCREW ASSY MAC 2.6X5		G680	3-075-021-01	AUTO HEAD CLEANER (G680)	
1-796-433-11	DAMPER CAPSTAN		G681	3-075-022-01	AUTO HEAD CLEANER (G681)	
3-075-241-01	ASSY ACE HEAD		K110	3-075-047-01	DISK S REEL	
1-796-704-11	ASSY CLYNDER 6HD (SECAM)		K140	3-075-046-01	DISK T REEL	
3-075-254-01	SCREW ASSY MAC 3X6		K240	3-067-781-01	LEVER-TENSION	
3-067-796-01	PLATE-GROUND DECK		K248	3-067-782-01	SPRING-TENSION LEVER	
3-079-347-01	SLIDER-SUPPLY ASSY		K250	3-067-783-01	BAND-BREAK	
3-079-346-01	SLIDER-TAKE UP ASSY		K340	3-067-785-01	LEVER-T. BRAKE	
3-084-091-01	SCREW TAP 2.6X5		K350	3-067-786-01	SPRING-BRAKE	
3-067-779-01	LEVER-#9 GUIDE		K490	3-067-788-01	HOLDER-FL CASS.	
3-067-780-01	SPRING-#9 GUIDE		K546	3-067-789-01	GUIDE-CASS.DOOR	
3-067-787-01	LEVER-FL DOOR					
	1-763-836-11 3-075-253-01 1-796-433-11 1-796-433-11 1-796-704-11 3-075-254-01 3-067-796-01 3-079-347-01 3-079-346-01 3-084-091-01 3-067-779-01	1.763-836-11 LOADING ASSY, MOTOR 3-075-253-01 SCREW ASSY MAC 2.6X5 1-796-433-11 DAMPER CAPSTAN 3-075-241-01 ASSY ACE HEAD 1-796-704-11 ASSY CLYNDER 6HD (SECAM) 3-075-254-01 SCREW ASSY MAC 3X6 3-067-798-01 PLATE-GROUND DECK 3-079-347-01 SLIDER-SUPPLY ASSY 3-084-091-01 SCREW TAP 2.6X5 SCREW TAP 2.6X5 3-067-779-01 LEVER-#9 GUIDE 3-067-780-01 SPRING-#9 GUIDE	1.763-836-11 LOADING ASSY, MOTOR 3-075-253-01 SCREW ASSY MAC 2.6X5 1.796-433-11 DAMPER CAPSTAN 3-075-241-01 ASSY ACE HEAD 1.796-704-11 ASSY CLYNDER 6HD (SECAM) 3-075-254-01 SCREW ASSY MAC 3X6 3-067-796-01 SCREW ASSY MAC 3X6 3-093-347-01 SLIDER-SUPPLY ASSY 3-093-346-01 SLIDER-SUPPLY ASSY 3-084-091-01 SCREW TAP 2.6X5 3-067-779-01 SCREW TAP 2.6X5	Part No. Description Remarks Ref. No. 1-763-836-11 LOADING ASSY, MOTOR G555 3-075-253-01 SCREW ASSY MAC 2.6X5 G680 1-796-433-11 DAMPER CARPSTAN G681 3-075-241-01 ASSY ACE HEAD K110 1-796-704-11 ASSY CLYNDER 6HD (SECAM) K140 3-075-254-01 SCREW ASSY MAC 3X6 K240 3-067-796-01 PLATE-GROUND DECK K248 3-079-347-01 SLIDER-TAKE UP ASSY K250 3-093-346-01 SLIDER-TAKE UP ASSY K340 3-067-779-01 SCREW TAP 2.6X5 K350 3-067-779-01 LEVER-49 GUIDE K490 3-067-780-01 SPRING-49 GUIDE K546	1.763-836-11 LOADING ASSY, MOTOR G555 3-067-784-01 3-075-253-01 SCREW ASSY MAG Z6XS G680 3-075-021-01 1-796-433-11 DAMPER CAPSTAN G881 3-075-022-01 3-075-241-01 ASSY ACE HEAD K110 3-075-047-01 1-796-704-11 ASSY CLYNDER 6HD (SECAM) K140 3-075-046-01 3-075-254-01 SCREW ASSY MAC 3X6 K240 3-067-780-01 3-067-798-01 PLATE-GROUND DECK K248 3-067-782-01 3-079-347-01 SUIDER-SUPPLY ASSY K250 3-067-783-01 3-084-091-01 SCREW TAP 2-6X5 K350 3-067-786-01 3-067-779-01 LEVER-49 GUIDE K490 3-067-789-01 3-067-789-01 SPRING-49 GUIDE K546 3-067-789-01	Part No. Description Remarks Ref. No. Part No. Description 1-763-836-11 LOADING ASSY, MOTOR G555 3-067-784-01 LEVER-UNIT PINCH 3-075-225-30 SCREW ASSY MAC 2.6X5 G880 3-075-021-01 AUTO HEAD CLEANER (G680) 1-796-433-11 DAMPER CARPSTAN G81 3-075-222-01 AUTO HEAD CLEANER (G681) 3-075-241-01 ASSY ACE HEAD K110 3-075-047-01 DISK S REEL 3-075-241-01 ASSY CLYNDER 6HD (SECAM) K140 3-075-046-01 DISK T REEL 3-075-796-01 PLATE-GROUND DECK K248 3-067-780-01 LEVER-TENSION 3-079-347-01 SLIDER-TAKE UP ASSY K250 3-067-785-01 LEVER-T. BRAKE 3-084-091-01 SCREW HAP 2.6X5 K350 3-067-786-01 LEVER-T. BRAKE 3-067-779-01 LEVER-99 GUIDE K490 3-067-788-01 HOLDER-FL CASS. 3-067-778-01 GROT-789-01 GROT-789-01 GROT-789-01 GROT-789-01

8-1-4 DVD Mechanical Parts



not supplied—
H105 H106 H103 not supplied
not supplied
H211 H241 H206 H206
900 H207 H203
903 H205
903 H210

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
900	3-078-592-01	SCREW TAP 2X6		H203	3-078-588-01	SHAFT PU	
903	9-885-037-07	SCREW MAC 1.7X3		H204	9-885-037-31	GEAR FEED A	
904	9-885-037-08	SCREW TAP 1.7X5		H205	9-885-037-32	GEAR FEED B	
H103	9-885-037-29	PULLEY GEAR		H206	9-885-037-23	HOLDER-CAM SKEW	
H104	9-885-037-20	MOTOR LOADING ASSY		H207	9-885-037-21	MOTOR-SPINDLE	
H105	3-078-583-01	BELT RECTANGULAR		H210	9-885-037-22	MOTOR FEED ASSY	
H106	9-885-037-30	GEAR TRAY		∆ H211	9-885-037-37	ASSY PICK UP	
H108	9-885-037-24	TRAY DISC		H241	9-885-037-06	CABLE FLAT 24P	
H202	9-885-037-35	RUBBER INSULATOR					

VCR MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< FUSE >		Q814	1-805-016-11	TRANSISTOR	KSC1623-L (EXCEPT D910AZ)
				Q815	1-805-016-11	TRANSISTOR	KSC1623-L (EXCEPT D910AZ)
▲ FZ01	1-576-729-11	FUSE-RADIAL LEA	D1A	Q816	1-805-016-11	TRANSISTOR	KSC1623-L (EXCEPT D910AZ)
 ▲ FZ02	1-576-729-11	FUSE-RADIAL LEA	D1A	Q880	1-804-429-11	TRANSISTOR	KSR2001 (EXCEPT D910AZ)
▲FZ03	1-576-729-11	FUSE-RADIAL LEA	ID1A	1			
∆FZ04	1-576-729-11	FUSE-RADIAL LEA	D1A	Q882	1-804-429-11	TRANSISTOR	KSR2001 (EXCEPT D910AZ)
				Q3A01	1-804-421-11	TRANSISTOR	KSC945
		< IC >		Q3A02	1-804-420-11	TRANSISTOR	KSA733
				Q3A03	1-804-422-11	TRANSISTOR	KTC3023
DIC1	1-805-039-11	IC M74HCU04		Q3A04		TRANSISTOR	KTC3023
IC301	1-804-702-11	IC (VIDEO)					
IC501	1-804-703-11	IC (HIFI)		Q3A05	1-804-422-11	TRANSISTOR	KTC3023
IC604	1-804-704-11	IC (RESET) (EXC	CEPT D910AZ)	Q3A06	1-804-420-11	TRANSISTOR	KSA733
IC604	1-804-773-11	IC (RESET) (D9	10AZ)	Q6P01	1-804-420-11		KSA733
				Q6P02	1-804-420-11	TRANSISTOR	KSA733
IC605	1-804-432-11	IC 524C80D81		Q6P04		TRANSISTOR	KSC945
IC608	1-804-705-11	IC (POWER DET	ECT) (D910N/D910R/D910AZ)	'			
IC701	9-885-043-27	IC (LED DRIVER)	Q1P102	1-804-429-11	TRANSISTOR	KSR2001
IC802	9-885-036-96	IC BU4053BCFV	(CMOS LOGIC)		1-804-421-11	TRANSISTOR	KSC945
IC803		IC BU4053BCFV			1-804-424-11	TRANSISTOR	KSC2328AY
			(EXCEPT D910AZ)		1-804-424-11	TRANSISTOR	KSC2328AY
			,		1-804-424-11		KSC2328AY
IC3S01	1-804-701-11	IC (SECAM) (DS	50B/D910B/D910R)	1			
IC4N01	1-805-156-11	IC MSP3417D (POFP) (AUDIO)	01P108	1-804-429-11	TRANSISTOR	KSR2001
IC6P01			EXCEPT D910R/D910AZ)		1-804-421-11		KSC945
IC6P01	1-804-454-11				1-804-424-11		KSC232BAY
ICA811	1-805-028-11		P) (EXCEPT D950B/D910B)		1-804-424-11		KSC2328AY
			, (=,	QA801		TRANSISTOR	KSC1623-L
PIC3	1-805-031-11 IC 3RD13 (V REGULATOR)		47.007	1 000 010 11	TOTAL	N3C 1023-E	
	(**************************************		CORAGO	1-805-016-11	DANSISTOD	KSC1623-L	
	<led></led>			1-805-017-11		200MW	
					1-805-018-11		KSR2103
LD601	1-804-438-11	LED-IR (T/S REE	1)		1-805-015-11	TRANSISTOR	KSA812
LD701			950B/D950GI/D950E)		1-805-018-11	TRANSISTOR	KSR2103
LD701	9-885-043-31		3300,03300,	unio-	1-003-010-11	IMMISISTOR	K3R2103
			E/D910B/D910N/D910R/D910AZ)	044805	1-805-017-11	DATESMANT	200MW
		,			1-805-016-11	TRANSISTOR	KSC1623-L
		< TRANSISTOR:	•		1-805-018-11	TRANSISTOR	KSR2103
					1-805-016-11	TRANSISTOR	KSC1623-L
PT601	1-804-770-11	TRANSISTOR	PHOTO INTERRUPTER		1-805-017-11		200MW
PT602	1-804-770-11		PHOTO INTERRUPTER	4			255,111
Q302	1-804-421-11	TRANSISTOR	KSC945	OAV802	1-805-015-11	TRANSISTOR	KSA812 (EXCEPT D910AZ)
			(D950B/D910B/D910R)	4			THOMAS (ENGLY : BOTONE)
Q305	1-804-429-11	TRANSISTOR	KSR2001			< MODULE >	
Q351	1-804-420-11	TRANSISTOR	KSA733				
				RM701	1-477-308-11	REMOCON MOD (TSOP2238WE1)
Q3Q1	1-804-421-11		KSC945				•
Q3Q2	1-804-421-11	TRANSISTOR	KSC945			< PHOTO TRANSI	STOR >
Q3Q3	1-804-421-11	TRANSISTOR	KSC945	1			
Q3Q4	1-804-421-11	TRANSISTOR	KSC945	S601	1-804-439-11	PHOTO TRANSIST	OR (END SENSOR)
Q3Q6	1-804-428-11	TRANSISTOR	KSR1004	S602			OR (START SENSOR)
							•
Q3Q7	1-804-421-11	TRANSISTOR	K\$C945			< SWITCH >	
Q601		TRANSISTOR	KSR1004				
Q802	1-804-428-11	TRANSISTOR	KSR1004 (EXCEPT D910AZ)	SW601	1-786-198-11	SWITCH MODE (P	ROGRAM SWITCH)
Q803	1-804-428-11		KSR1004 (EXCEPT D910AZ)	SW602	1-786-199-11	SWITCH REC (REC	C SWITCH)
Q804	1-804-429-11	TRANSISTOR	KSR2001 (EXCEPT D910AZ)	1			•
				ł		< TUNER >	
Q808		TRANSISTOR	KSR1004				
Q809	1-804-421-11		KSC945 (EXCEPT D910AZ)	TM401		TUNER PAL (D950	
Q810	1-804-421-11		KSC945	TM401	9-885-043-35	TUNER PAL (EXCE	PT D950B/D910B)
Q811	1-804-421-11	TRANSISTOR	KSC945 (EXCEPT D910AZ)				
Q812	9-885-043-26	IRANSISTOR	KSR1104				
0012	0.005.043.55	TRANSIERO-	KODAAA	1			
Q813	9-889-043-26	TRANSISTOR	KSR1104	1			Note: The components identified by
							mark & or dotted line with mark

 ⚠ are critical for safety. Replace only with part number

VCR MAIN

Ref. No.	Part No.	Description	Remarks
		< VIBRATOR >	
XT301	1-795-330-11	VIBRATOR CRYSTAL (4.433619N	IHz)
XT601	1-795-332-11	VIBRATOR CRYSTAL (32.768kHz) (D910) AZ/D910N/D910R)
XT602	1-795-331-11	VIBRATOR CRYSTAL (8MHz)	
XT4N01	9-885-043-29	CRYSTAL (18.432MHz)	
		ANCOCK ANCOLIC	
		MISCELLANEOUS	
1 200	1-823-023-11	POWER CORD KKP419C (EXCE	PT D950GI)

1 200 ₺ 1-823-025-11 POWER CORD Y352 (D950GI) 1-763-836-11 LOADING ASSY, MOTOR B410

B560 1-796-432-11 MOTOR CAPSTAN 1-796-704-11 ASSY CLYNDER 6HD (SECAM) G001

H104 9-885-037-20 MOTOR LOADING ASSY 9-885-037-21 MOTOR-SPINDLE H207

H210 9-885-037-22 MOTOR FEED ASSY ∆H211 9-885-037-37 ASSY PICK UP

H241 9-885-037-06 CABLE FLAT 24P

ACCESSORIES & PACKING MATERIALS

3-084-914-12 MANUAL, INSTRUCTION (FRENCH) (D910E) 3-084-914-22 MANUAL, INSTRUCTION (ITALIAN) (D910E) 3-084-914-32 MANUAL, INSTRUCTION (SPANISH) (D910E/D950E) 3-084-914-42 MANUAL, INSTRUCTION (GERMAN) (D910E/D950E) 3-084-914-52 MANUAL, INSTRUCTION (DUTCH) (D910E/D950E) 3-084-915-12 MANUAL, INSTRUCTION (ENGLISH) (D950GI) 3-084-916-12 MANUAL, INSTRUCTION (FRENCH) 3-084-917-11 MANUAL, INSTRUCTION (ENGLISH) (D910N) 3-084-917-21 MANUAL, INSTRUCTION (POLISH) (D910N) 3-084-917-31 MANUAL, INSTRUCTION (HUNGARIAN) (D910N)

3-084-917-41 MANUAL, INSTRUCTION (CZECH) (D910N) 3-084-917-51 MANUAL, INSTRUCTION (RUSSIAN) (D910R)

3-084-918-12 MANUAL, INSTRUCTION (ENGLISH) (D910AZ) 9-885-043-07 COMMANDER (RMT-V503A)

(D910B/D910E/D910N/D910R/D910AZ) 9-885-043-08 COMMANDER (RMT-V503B)

(D950B/D950E/D950GI)

9-885-043-33 CABLE RCA (RED) 9-885-043-34 CABLE RCA (YEL)

Note: The components identified by mark ∆ or dotted line with mark Replace only with part number specified.

SLV-D910AZ/D910B/D910E/D910N/D910R/ D950B/D950E/D950GI

Sony Corporation
Home Storage Company
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