

VIDEO CASSETTE RECORDER



D50Y-100M

Owner's Manual

Table of Contents

Safety Information	2
Before Using This Product	2
Installation	5
Basic Operation	9
Advanced Operations	10
Maintenance	15
Troubleshooting Guide	15
Specifications	16
Declaration of Conformity	16

Features

- Hi-Fi System
- Automatic Operations
- On Screen Display
- Auto Repeat Playback
- Picture Select
- One Touch Recording
- Parents Lock
- Auto Return
- Timer Recording
- Auto Head Cleaner
- NTSC Playback
- Quick-Find
- Index/Time Search
- Slow Motion
- AUDIO/VIDEO in jacks
- AUDIO OUTPUT L/R jacks
- System Change Features <MESECAM/PAL>

Supplied Accessories

- Remote control
- Two R6 batteries
- RF cable

Important Copyright Information

Unauthorised recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We do not take responsibility for the unauthorised duplication, use, or other acts which infringe upon the rights of copyright owners.

Model/Serial Number

This appliance has a serial number located on the rear panel. Please note down the model number and serial number and retain the information for your records.

Model number: _____

Serial number: _____

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

This product consists of materials which can be recycled and reused if disassembled by a specialised company.

Following information is only for EU-member states:

The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



Following information is only valid EU-member States: Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste. If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.



Pb, Hg, Cd

1VMN31593 / HM457ED★★★★★



* 1 V M N 3 1 5 9 3 *

Safety Information

WARNING:

- **Live parts inside. Do not remove any screws.**
- **To avoid fire or electric shock, do not expose this unit to rain or moisture.**
- **Dangerous voltage inside**

Precautions

- Use only cassettes with the VHS mark with this VCR.
- Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.
- Slots and openings in the cabinet and the sides or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating, these openings must not be blocked or covered.
- Avoid installation in enclosed spaces such as bookcases unless proper ventilation is provided.
- Keep the unit away from radiators and other heat sources.
- Avoid use near strong magnetic fields.
- Do not push objects of any kind into the VCR through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock.
- Never spill liquid on this unit. If liquid is spilled and penetrates into the unit, consult qualified service personnel.
- Use this unit in a horizontal (flat) position only.
- Before attempting to operate the unit, make sure that the Timer Recording mode is "OFF".
- This product is in Stand-by mode when it turns off while the power cord is connected.

- Disconnect the mains plug to shut off when find troubles or not in use.
- The mains plug shall remain readily operable.
- Read both manual instructions to ensure correct and safe installation and interconnection of the unit in multimedia systems.
- Keep the distances 20 cm around apparatus of ventilation openings.
- Do not place any combustible objects on the device (candles, etc.).
- To prevent fire or shock hazard, do not expose this apparatus to dripping or splashing, no objects filled with liquids, such as vases, should be placed on the apparatus.

Power Supply

The main power supply is engaged when the power cord plug is plugged in a 220-240V, 50Hz, AC outlet. To operate the unit, press **FUNCTION** to turn on the unit. (PWR indicator on the VCR comes on.)

Dew Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, after heating up a cold room, or under conditions of high humidity. Do not use the VCR for at least 2 hours until it is dry inside.

Positioning

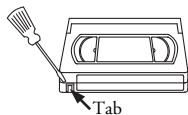
Do not place the VCR directly on top of, or underneath, your TV set. Ensure that there is at least 20 cm between the VCR and the TV set, and that air can circulate freely through the ventilation openings of the VCR.

Before Using This Product

Video Cassette Tape

This VCR will operate with any cassette that bears the VHS mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

You can prevent accidental erasing of a recording by breaking off the erase-prevention tab on the back edge of the cassette. If you decide to record on the tape again, cover the hole with plastic tape.



Two Different Tape Speeds

Before recording, select the tape speed : SP mode (Standard Play) or LP mode (Long Play). The table below shows the maximum recording/playback time using E-60, E-120, E-180 or E-240 tapes in each mode.

Tape Type	Recording/Playback Time	
	SP Mode	LP Mode
E-60	1 hour	2 hours
E-120	2 hours	4 hours
E-180	3 hours	6 hours
E-240	4 hours	8 hours

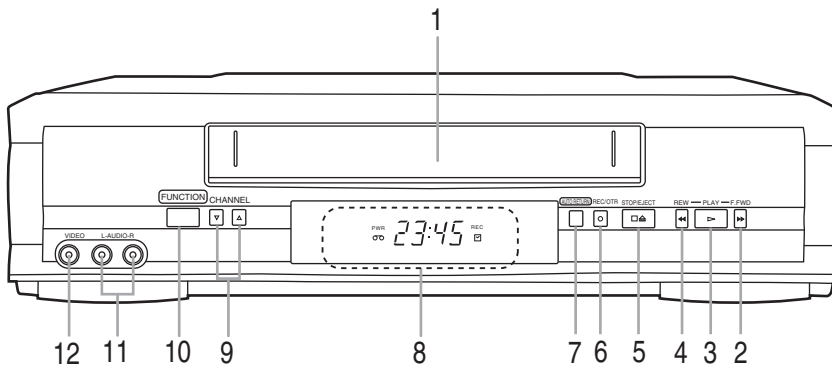
TV Colour System

Different countries use different television colour systems. Tapes recorded in the PAL, MESECAM or NTSC system can be played back on this unit. Usually, the picture on the TV screen will be in black and white when you play back a tape that is recorded in a different colour system.

Tapes recorded in the NTSC system can be played back on this unit and a PAL system TV set. This feature is only available in the SP mode. When playing back such tapes, the picture may roll up or down, shrink vertically and black bars may appear both at the top and bottom of the screen. Adjust the vertical hold control on your TV, if the TV features this control.

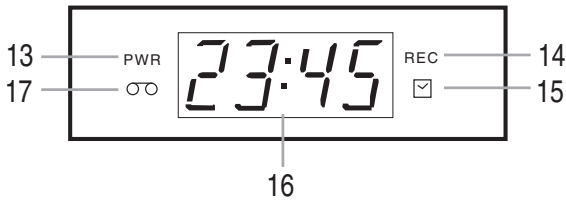
Controls, Display and Connections

Front Panel



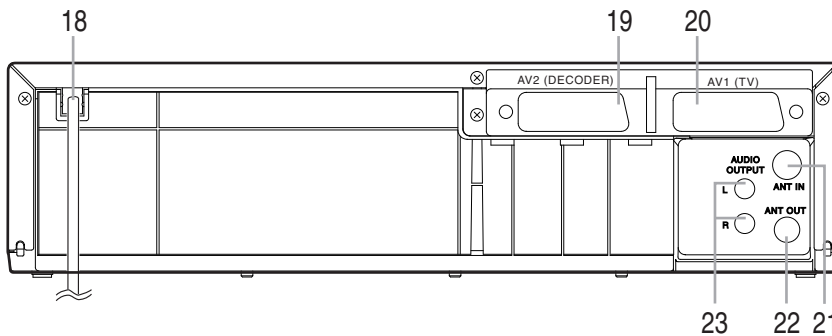
- | | |
|--------------------------------|---------------------------|
| 1. Cassette compartment | 7. AUTO RETURN button |
| 2. F.FWD (Fast Forward) button | 8. Indicator (See below.) |
| 3. PLAY button | 9. CHANNEL (▲/▼) buttons |
| 4. REW (Rewind) button | 10. FUNCTION button |
| 5. STOP/EJECT button | 11. AUDIO in jacks |
| 6. REC/OTR button | 12. VIDEO in jack |
- (To completely shut down the unit, you must unplug the mains cable.)

Indicator



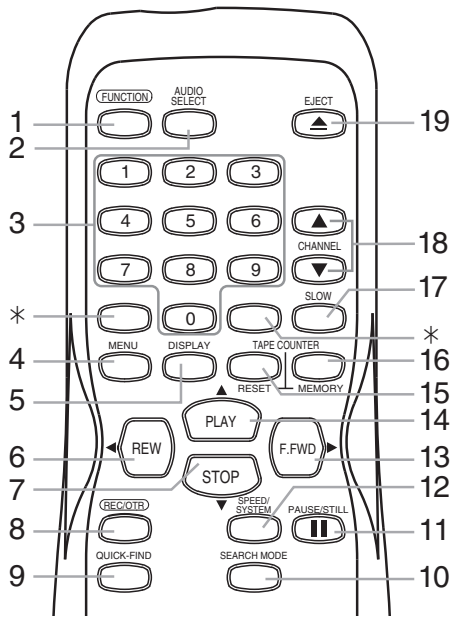
13. PWR (Power) indicator
14. REC (Record) indicator
15. ☑ (Timer) indicator
16. Clock indicator
17. Cassette indicator

Rear Panel



18. Power cord
19. AV2 (DECODER) socket
20. AV1 (TV) socket
21. ANT IN socket
22. ANT OUT socket
23. AUDIO OUTPUT L/R jacks

Remote Control

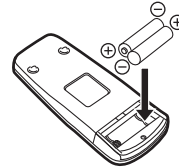


* These buttons do not function for this VCR.

1. FUNCTION button
2. AUDIO SELECT button
3. number buttons
4. MENU button
5. DISPLAY button
6. REW/◀ button
7. STOP/▼ button
8. REC/OTR button
9. QUICK-FIND button
10. SEARCH MODE button
11. PAUSE/STILL || button
12. SPEED/SYSTEM button
13. F.FWD/▶ button
14. PLAY/▲ button
15. TAPE COUNTER RESET button
16. TAPE COUNTER MEMORY button
17. SLOW button
18. CHANNEL (▲/▼) buttons
19. EJECT ▲ button

To insert the batteries:

Install two R6 batteries matching the polarity indicated inside the battery compartment.



Caution

Do not mix old and new batteries. (Also never mix alkaline batteries with manganese batteries.)

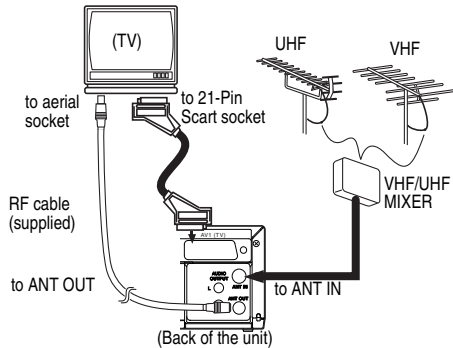
Do not recharge, short-circuit, heat, burn or disassemble batteries.

Installation

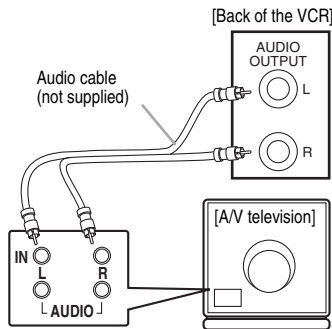
Connecting the VCR

Basic Connection

- 1) Disconnect the TV's power cord from the AC outlet.
- 2) Disconnect the VHF/UHF TV aerial coaxial cable from the TV.
- 3) Connect the VHF/UHF TV aerial coaxial cable to the VCR.
- 4) Connect the VCR to the TV using the RF cable and the Scart cable.
- 5) Plug the power cords of the VCR and TV into the AC outlets.



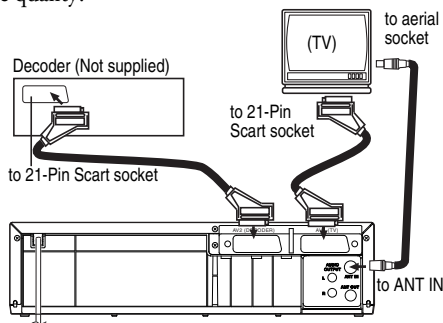
Note: If your TV has AUDIO input jacks, you may connect the AUDIO OUTPUT L/R jacks on the back of this VCR to the AUDIO input jacks on your TV.



Other Connections

Euro Scart (AV) Sockets (Connecting to a decoder)

Your VCR is provided with two Scart sockets which you may connect to other external devices with Scart sockets. We recommend this connection to ensure a better audio and picture quality.



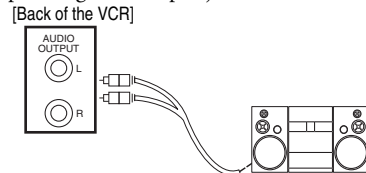
Euro Scart cables are obtainable at your dealer.

AV1 (TV) Connection to TV

If your TV has Scart sockets, you may connect your VCR's AV1 (TV) scart socket to the Scart socket on the back of your TV. Please see the instruction manual for your TV.

Note: You may connect the VCR to your audio amplifier.

- 1) Prepare an audio cable (not supplied).
- 2) Switch off your audio amplifier.
- 3) Insert one end of the audio cable into the corresponding red and white AUDIO OUTPUT L/R jacks at the back of the video recorder and the other end into the corresponding audio input jacks at the audio amplifier.



AV2 (DECODER) Connection for Other External Devices

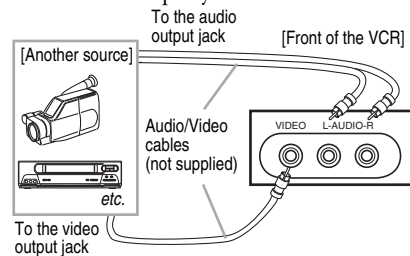
The second Scart socket AV2 (DECODER) is designated for other external devices, e.g. decoder, another VCR, video camera and so on.

Note: If you want to connect a TV with Scart socket to your VCR, the TV must be connected to the VCR through AV1 (TV). A connection to AV2 (DECODER) will not function correctly.

AV Front Terminals

When you copy a video tape, or watch a programme recorded on an another source, use the AUDIO/VIDEO input jacks on the front panel of the VCR.

Note: When you connect a monaural VCR (another source) to this VCR, connect the audio output jack of the monaural VCR (another source) to the AUDIO L jack of this VCR. The audio signal will be recorded in both L and R channel equally.



External Input Mode

To receive the signal from an external source (decoder, video camera, another VCR, etc.), connect the source to the AV2 (DECODER) socket, and press **CHANNEL** (▲/▼) or enter "002" with the **number buttons**. "AV2" appears on the TV screen. If you use the AV1 (TV) socket, press **CHANNEL** (▲/▼) or enter "001" with the **number buttons**. "AV1" appears on the TV screen. If you use the front AUDIO/VIDEO input jacks, press **CHANNEL** (▲/▼) or enter "003" with the **number buttons**. "AV3" appears on the TV screen.

Initial Settings

Selecting the Language

The following steps should only be performed if there is a power failure or if the VCR is unplugged for more than 30 seconds.

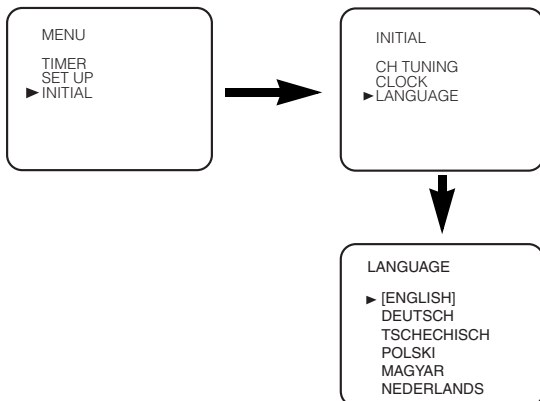
- Use the remote control for this procedure.
- 1) Turn on the TV and select the video channel on the TV.
 - 2) Press **FUNCTION**.
 - 3) Press **PLAY/▲** or **STOP/▼** repeatedly to select your desired language.
 - 4) Press **MENU**.



Changing the Language

If you want to change the language used on the TV screen menus, follow the steps below.

- Use the remote control for this procedure.
- 1) Press **MENU**.
 - 2) Press **PLAY/▲** or **STOP/▼** to select “INITIAL”, then press **F.FWD/▶**.
 - 3) Press **PLAY/▲** or **STOP/▼** to select “LANGUAGE”, then press **F.FWD/▶**.
 - 4) Press **PLAY/▲** or **STOP/▼** repeatedly to select your desired language.
 - 5) Press **MENU**.



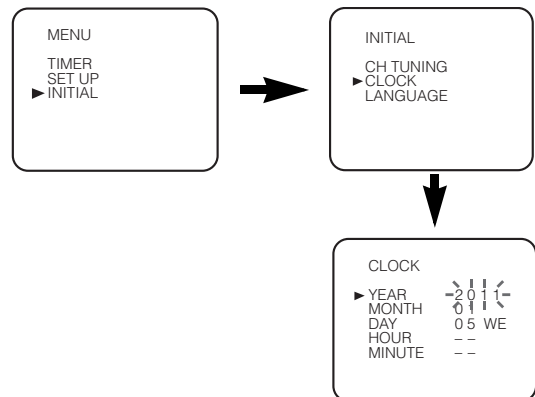
Setting the Clock

This VCR incorporates a 24-hour clock. The clock must be set for the Timer Recording function to operate correctly.

- Use the remote control for this procedure.
- 1) Press **MENU**.
 - 2) Press **PLAY/▲** or **STOP/▼** to select “INITIAL”, then press **F.FWD/▶**.
 - 3) Press **PLAY/▲** or **STOP/▼** to select “CLOCK”, then press **F.FWD/▶**.
 - 4) Press **PLAY/▲** or **STOP/▼** until the relevant year appears, then press **F.FWD/▶**.
 - 5) Press **PLAY/▲** or **STOP/▼** until the relevant month appears, then press **F.FWD/▶**.
 - 6) Press **PLAY/▲** or **STOP/▼** until the relevant day appears, then press **F.FWD/▶**.
 - 7) Press **PLAY/▲** or **STOP/▼** until the relevant hour appears, then press **F.FWD/▶**.
 - 8) Press **PLAY/▲** or **STOP/▼** until the relevant minute appears.
 - 9) Press **MENU** to start the clock.

Note:

- Press **REW/◀** to go one step back from the current step during steps 5) to 8).
- Although seconds are not displayed, they begin counting from 00 when you exit by pressing **MENU**. Use this feature to synchronize the clock with the correct time.
- If the VCR is unplugged or if there is a power failure for more than 30 seconds, you may have to reset the clock.



Channel Presetting

Tuning of broadcast channels not already preset in the VCR can be performed in two ways.

Automatic Channel Preset

- By “AUTOMATICALLY” tuning channels and placing them in sequential order in the VCR’s memory i.e. the first channel found will be memorized into the VCR’s channel position 1, the second channel found will be memorized into the VCR’s channel position 2 and so on.
- Execution of the “Automatic” channel presetting cancels all the preset channels. DO NOT use this feature if you intend to use some of the pre-tuned channels. Use the “Manual” channel presetting function to tune in the additional channels you require.

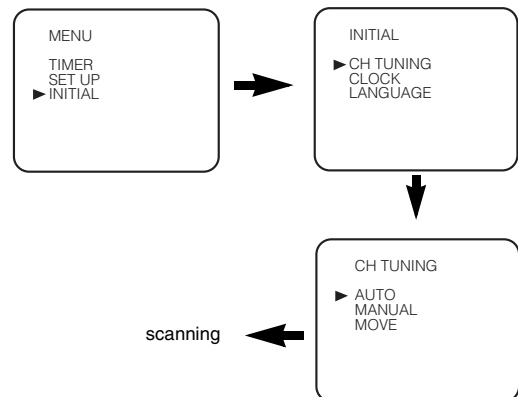
Manual Channel Preset

- Each channel is tuned manually and individually. Follow the steps laid out in the “Manual Channel Preset” section.

Automatic Channel Preset

You can programme the tuner to scan only the channels that you can receive in your area.

- Use the remote control for this procedure.
- 1) Turn on the TV and select the TV channel to the video channel on the TV.
- 2) Press **MENU**.
- 3) Press **PLAY/▲** or **STOP/▼** to select “INITIAL”, then press **F.FWD/▶**.
- 4) Press **PLAY/▲** or **STOP/▼** to select “CH TUNING”, then press **F.FWD/▶**.
- 5) Press **PLAY/▲** or **STOP/▼** to select “AUTO”, then press **F.FWD/▶**.
- The tuner scans and memorizes all the active channels in your area. After scanning, the tuner stops on the lowest memorized channel.



To Select a Desired Channel

You can select a desired channel by using **CHANNEL** (▲/▼), or directly pressing the **number buttons** on the remote control.

- Enter a channel number as a two-digit number for the quickest results. For example, to select channel 6, press **0** and **6**. If you only press **6**, channel 6 will be selected after a brief delay.
- You can only select channels 1–99.

Manual Channel Preset

- Use the remote control for this procedure.
- 1) Press **MENU**.
- 2) Press **PLAY/▲** or **STOP/▼** to select “INITIAL”, then press **F.FWD/▶**.
- 3) Press **PLAY/▲** or **STOP/▼** to select “CH TUNING”, then press **F.FWD/▶**.
- 4) Press **PLAY/▲** or **STOP/▼** to select “MANUAL”, then press **F.FWD/▶**.
- 5) Press **PLAY/▲** or **STOP/▼** to select “POSITION”, then press **F.FWD/▶**.
 - When a weak signal is received in Manual Tuning mode, you can change the background to solid blue or the static screen by pressing **TAPE COUNTER RESET**.
- 6) Press the **number buttons**, **PLAY/▲**, or **STOP/▼** to select your desired position number, then press **F.FWD/▶**.
 - You can select position number 01-99.
 - If [ON] appears on the right side of “SKIP”, press **PLAY/▲** or **STOP/▼** to point to “SKIP”. Then, press **F.FWD/▶** to select [OFF].
 - If you want to remove scrambled signals, press **PLAY/▲** or **STOP/▼** repeatedly to point to “DECODER”. Then, press **F.FWD/▶** to select [ON].

- If you want to change the video mode, press **PLAY/▲** or **STOP/▼** repeatedly to point to “VIDEO MODE”.

Then, press **F.FWD/▶** to select your desired mode.

- 7) Press **PLAY/▲** or **STOP/▼** to select “CHANNEL”, then press **F.FWD/▶**.

Press **PLAY/▲** or **STOP/▼**. The VCR tuner will begin to search up or down automatically. When a channel is found, the VCR will stop searching and the picture will appear on the TV Screen.

- You can select desired channel number by using the **number buttons**. You must refer to the following Channel Plan table and press three digits to select the channel number.

(To select channel 24, press “0” button first and then press “2” and “4”.)

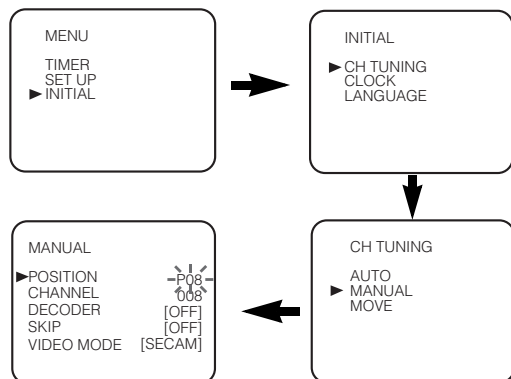
- If this is the channel you want, press **F.FWD/▶**.

Channel Plan	
CH Indication	TV Channel
02 – 12	E2 – E12
21 – 69	E21 – E69
74 – 78	X, Y, Z, Z+1, Z+2
80 – 99, 100	S1 – S20, GAP
121 – 141	S21 – S41
142 – 153	R1 – R12

This VCR can receive Hyper and Oscar frequency bands.

- 8) Press **MENU** to exit.

Note: To confirm that a channel has been added, press **CHANNEL (▲/▼)**.



To Skip a Preset Channel

The channels you can no longer receive or seldom watch can be set to be skipped when you access channels by pressing **CHANNEL (▲/▼)**.

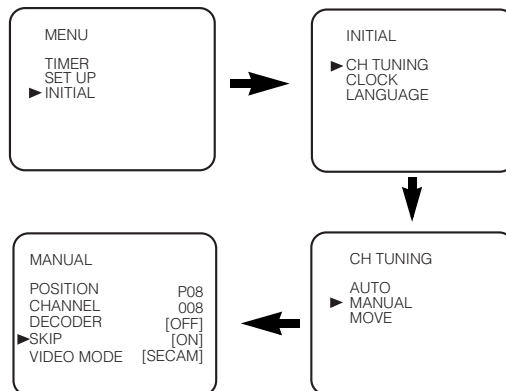
- Use the remote control for this procedure.

- 1) Press **MENU**.
- 2) Press **PLAY/▲** or **STOP/▼** to select “INITIAL”, then press **F.FWD/▶**.
- 3) Press **PLAY/▲** or **STOP/▼** to select “CH TUNING”, then press **F.FWD/▶**.
- 4) Press **PLAY/▲** or **STOP/▼** to select “MANUAL”, then press **F.FWD/▶**.
- 5) Press **PLAY/▲** or **STOP/▼** to select “POSITION”, then press **F.FWD/▶**.
- 6) Press the **number buttons**, **PLAY/▲**, or **STOP/▼** to select relevant position number, then press **F.FWD/▶**.
- 7) Press **PLAY/▲** or **STOP/▼** to select “SKIP”, then press **F.FWD/▶** to select [ON].

- To memorize the channel again, press **F.FWD/▶**. “ON” will change to “OFF”.

- 8) Press **MENU** to exit.

Note: To confirm that a channel has been deleted, press **CHANNEL (▲/▼)**.



Channel Reprogramming

You can replace two channels.

- Use the remote control for this procedure.

- 1) Press **MENU**.
- 2) Press **PLAY/▲** or **STOP/▼** to select “INITIAL”, then press **F.FWD/▶**.
- 3) Press **PLAY/▲** or **STOP/▼** to select “CH TUNING”, then press **F.FWD/▶**.
- 4) Press **PLAY/▲** or **STOP/▼** repeatedly to select “MOVE”, then press **F.FWD/▶**.
- 5) Press **PLAY/▲** or **STOP/▼** repeatedly to select the position number you want to change the channel, then press **F.FWD/▶**.

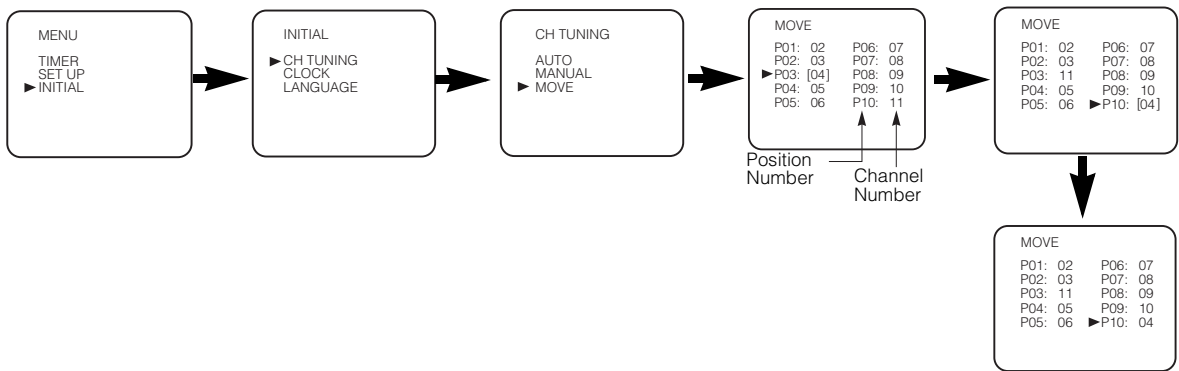
- You cannot select a position number where “- - -” appears next to the number. This is because SKIP is set to [ON] for this position number.

- When a weak signal is received in Channel Reprogramming mode, you can change the background to solid blue by pressing **TAPE COUNTER RESET**.

If you press the button again, the background will return to the static screen.

- 6) Press **PLAY/▲** or **STOP/▼** repeatedly until the channel move to another position number, then press **F.FWD/▶**.

7) Press **MENU**.



Basic Operation

Playback

Tracking Adjustment

- Tracking adjustment will be activated automatically (Digital Tracking function) when you start playback.
- When playing pre-recorded tapes or tapes recorded on units other than your own, noise lines (black and white streaks) may appear on the playback picture. If this occurs, you can adjust the tracking control manually by pressing **CHANNEL (▲/▼)** until the streaks disappear. To return to the DTR function, stop the tape once and start playback again.

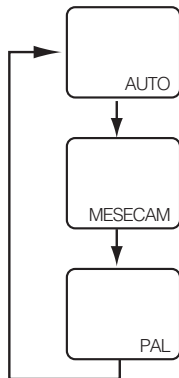
Note:

- You can reduce the noise lines by pressing **CHANNEL (▲/▼)** in Slow mode, too. Slow tracking adjustment is not set automatically.
- In the Still mode, press **SLOW**, and press **CHANNEL (▲/▼)** until the streaks disappear. To return to the Still mode, press **PAUSE/STILL II** again.

Playback System Change

When you select **AUTO** by pressing **SPEED/SYSTEM**, this unit will distinguish the system (MESECAM or PAL) automatically according to the format of recorded tape during playback.

If the picture on the TV screen is black and white, select the system MESECAM or PAL manually by using **SPEED/SYSTEM**. Each time you press **SPEED/SYSTEM**, TV screen will change as follows.



- 1) Turn on the TV and select the video channel on the TV.
- 2) Insert a prerecorded tape.
The VCR will turn on automatically. If the erase-protection tab has been removed, the VCR will start playback automatically.
- 3) Press **PLAY/▲** to begin playback.
 - Tracking adjustment will be activated automatically (Digital Tracking function) when you start playback. To adjust the tracking manually, press **CHANNEL (▲/▼)**.
<If a tape is already in the VCR...>
 - Using the buttons on the VCR
Just press **PLAY** on the VCR. Power will automatically

turn on and playback will start. (Direct Button Operation)

- Using the buttons on the remote control
Press **FUNCTION** to turn on, and then press **PLAY/▲**.

- 4) Press **STOP/▼** to stop playback.

Speed Search

- 1) Press **F.FWD/▶** or **REW/◀** during playback to view a videotape at a high speed in either a forward or reverse direction. In this mode, the sound will be muted.
- 2) Press the button again, the VCR will now search in super high speed. (This function will not operate for a NTSC tape.)
- 3) Press **PLAY/▲** to return to normal playback.

Still Picture

Press **PAUSE/STILL II** during playback to view a still picture on the TV screen.

- When the picture begins to vibrate vertically, stabilize the picture by pressing **CHANNEL (▲/▼)** in the Still mode.
- After the VCR has been in Still mode for 5 minutes, it will stop automatically to protect the tape and the video head.
<Note for "Speed Search" and "Still Picture">
- Usually there will be video "noise" lines (black and white streaks or dots) on the screen. This is normal.
The still picture will, in addition to containing the "noise" lines, be black and white.
This is not a fault of the machine but merely a by-product of the technology involved in producing a VCR with LP mode.

Slow Motion

- Press **SLOW** to reduce the playback speed. The VCR mutes the sound during slow motion. You can control the speed by pressing **F.FWD/▶** (faster) or **REW/◀** (slower). Press **PLAY/▲** to return to normal playback.
- If it is left in the Slow mode for more than 5 minutes, the VCR will automatically switch to the Stop mode.

Recording

Viewing and Recording the Same Programme

- 1) Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)
- 2) Press the **number buttons** or **CHANNEL (▲/▼)** to select the channel to be recorded.
- 3) Press **SPEED/SYSTEM** to select the tape speed (SP/LP).

- 4) Press **REC/OTR** to begin recording.
 - The REC indicator on the display comes on.
- 5) Press **STOP/▼** when recording is completed.

Skipping Unwanted Programme Material During Recording

- 1) Press **PAUSE/STILL II** when you want to temporarily halt recording.
You can check the remaining pause time with **■** marks on the TV screen. Each **■** mark represents 1 minute. After 5 minutes, the VCR will automatically switch to the Stop mode to prevent tape damage.
- 2) Press **PAUSE/STILL II** or **REC/OTR** to resume recording.

Recording One Programme While Viewing Another

You can record one programme while viewing another. To start recording, follow steps 1) to 4) under “Viewing and Recording the Same Programme”. Then, set the TV to the channel you want to watch.

To Monitor the Progress of Your Recording

Select the external input channel connected with VCR on the TV.

Assemble Function

- You can record in continuation from previous programme on a pre-recorded tape.
- 1) Insert a pre-recorded tape. Press **PLAY/▲** to start playback.
 - 2) Press **PAUSE/STILL II** at the desired point on the tape.
 - 3) Press **REC/OTR**. The VCR will be the recording pause mode.
 - 4) Press **CHANNEL (▲/▼)** to select the channel to be recorded.
 - 5) Press **REC/OTR** or **PAUSE/STILL II**. The recording will begin.
 - 6) Press **STOP/▼** when recording is completed.

Hi-Fi Stereo Sound System

This VCR will record and playback Hi-Fi stereo sound. In addition it has a A2 and NICAM stereo sound decoder.

This equipment will receive stereo and bilingual broadcasts and it is possible the several ways of recording and playing back the sound.

Advanced Operations

Counter Memory

This feature can be used to memorize a beginning point that you want to watch again. Rewinding or fast forwarding makes it easy to locate this point.

- Note:**
- If a tape includes both programmes recorded in the PAL system and ones recorded with NTSC system, this function may not be operated correctly.
 - TAPE COUNTER MEMORY does not function if the Auto Repeat mode is set to ON. In this case, set the Auto Repeat mode to OFF.
- 1) Stop the tape at the desired point.
 - 2) Press **TAPE COUNTER RESET** to display 0:00:00.
 - 3) Press **TAPE COUNTER MEMORY** so that “M” appears on the TV screen.
 - 4) Press **REC/OTR** or **PLAY/▲**.
 - Press **STOP/▼** when recording or playback is completed.

SELECTING THE SOUND MODE

You can select each mode by pressing **AUDIO SELECT** on the remote control. Each mode is indicated on the TV screen as following.

- During playback of the recorded tape in Hi-Fi mode:

Mode	AUDIO OUTPUT		Display on the TV screen
Stereo	L	Hi Fi L Audio	STEREO
	R	Hi Fi R Audio	
L	L	Hi Fi L Audio	LEFT
	R	Hi Fi L Audio	
R	L	Hi Fi R Audio	RIGHT
	R	Hi Fi R Audio	
Normal	L	Normal Audio	-None-
	R	Normal Audio	

- Reception of stereo broadcasts:

Mode	AUDIO OUTPUT		Display on the TV screen
Stereo	L	L Audio	STEREO
	R	R Audio	
L	L	L Audio	LEFT
	R	L Audio	
R	L	R Audio	RIGHT
	R	R Audio	
Monaural	L	L+R Audio	-None-
	R	L+R Audio	

- During reception of bilingual broadcasts:

Mode	AUDIO OUTPUT		Display on the TV screen
MAIN	L	Main Audio	MAIN
	R	Main Audio	
SUB	L	Sub Audio	SUB
	R	Sub Audio	
MAIN SUB	L	Main Audio	MAIN SUB
	R	Sub Audio	

- Note:**
- If you play non-Hi-Fi tapes, the VCR will play automatically in monaural even if you select any mode.
 - If the stereo signal becomes weak, the broadcast is automatically recorded in monaural.

- 5) Press **REW/◀** or **F.FWD/▶**. The VCR will automatically stop when the counter returns to 0:00:00 (approx.).

To Exit the Counter Memory

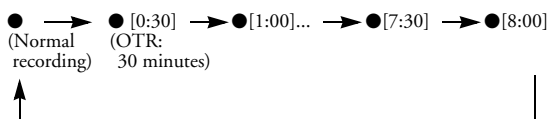
Press **TAPE COUNTER MEMORY** so that the “M” disappears from the TV screen.

- Note:** When you set the Auto Repeat mode to ON while the Counter Memory mode is ON, the VCR exits the Counter Memory mode automatically.

OTR (One Touch Recording)

This function enables you to set the duration of a recording simply by pressing **REC/OTR**.

- 1) Follow steps 1) to 3) in “Viewing and Recording the Same Programme” section.
- 2) Press **REC/OTR** repeatedly until the desired recording length appears in the upper left corner of the TV screen.



Recording stops when 0:00 is reached.

- To check time remaining during an OTR
Press **DISPLAY**.
- To change the recording length during an OTR
Press **REC/OTR** repeatedly until the desired length appears.
- To stop an OTR before recording is finished
Press **STOP/▼**.
- To cancel the OTR but continue recording
Press **REC/OTR** repeatedly until “●” appears without the recording length.

Auto Repeat Playback

The VCR has an auto repeat function that allows you to repeat a tape indefinitely without touching **PLAY/▲**.

- Use the remote control for this procedure.
 - Insert a pre-recorded tape.
- 1) Press **MENU**.
 - 2) Press **PLAY/▲** or **STOP/▼** to select “SET UP”, then press **F.FWD/▶**.
 - 3) Press **PLAY/▲** or **STOP/▼** to select “AUTO REPEAT”.
 - 4) Press **F.FWD/▶** so that “ON” appears next to “AUTO REPEAT” on the TV screen.

When in Stop mode, Auto Repeat mode will start automatically.

If the on-screen menu still remains, press **MENU** to exit, then press **PLAY/▲**.

- Note:**
- Once you select the Auto Repeat mode, it stays in effect even after you turn off the VCR.
 - TAPE COUNTER MEMORY does not function if the Auto Repeat mode is set to ON.
 - When you set the Auto Repeat mode to ON while the Counter Memory mode is ON, the VCR exit the Counter Memory mode automatically.

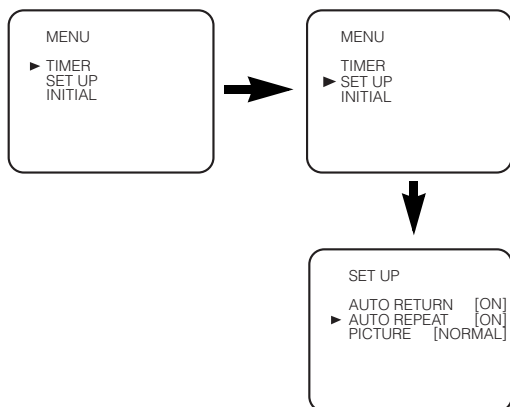
To Stop Playback

Press **STOP/▼**.

To Exit the Auto Repeat Mode

Repeat steps 1) to 3). Then, press **F.FWD/▶**.

“OFF” will appear next to “AUTO REPEAT” on the TV screen. Press **MENU** to exit.

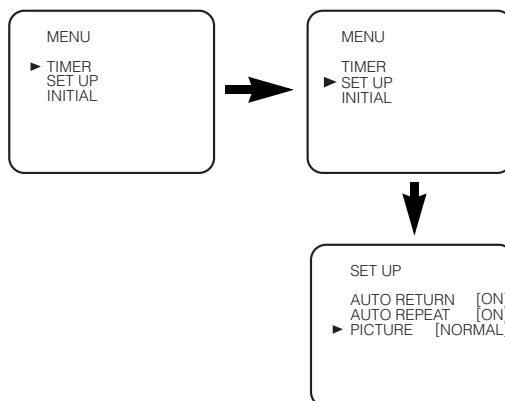


Picture Select

This function enables you to select the picture quality of a tape.

- Use the remote control for this procedure.
- 1) Press **MENU**.
 - 2) Press **PLAY/▲** or **STOP/▼** to select “SET UP”, then press **F.FWD/▶**.
 - 3) Press **PLAY/▲** or **STOP/▼** to select “PICTURE”.
 - 4) Press **F.FWD/▶** until the desired mode (NORMAL, SOFT, or SHARP) is indicated on the TV screen.
 - 5) Press **MENU** to exit.

Note: Once you select the Picture Select mode, it stays in effect even after you turn off the VCR.



Automatic Operations

Automatic Rewind, Eject, Off

When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After that, the VCR will eject the tape and turn itself to off.

- The tape will not auto-rewind during Timer Recording or One Touch Recording.
- When the Counter Memory is activated, the tape will rewind to the M0:00:00 position and the VCR will enter the Stop mode.

Tape Eject

A tape can be ejected with the VCR power on or off (but the VCR must be plugged in).

- If a Timer Recording is set, a tape can only be ejected with the power on.

Real Time Tape Counter

- This shows the elapsed recording or playback time in hours, minutes, and seconds. (Nothing is shown in the case of blank portion.)
- The “-” indication will appear when the tape is rewound further than the tape counter position “0:00:00”.

Timer Recording

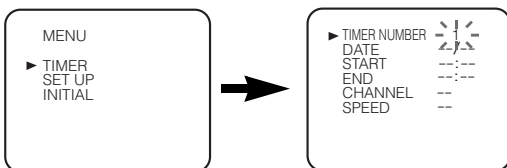
You may programme the VCR to start and end a recording while you are away. You can set 8 programmes to record on specific days, daily or weekly within a 1-year period.

- Use the remote control for this procedure.
- Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

- 1) Press **MENU**.
- 2) Press **PLAY/▲** or **STOP/▼** to select "TIMER", then press **F.FWD/▶**.

Note: If you have not set the clock yet, "CLOCK" setting menu appears. If so, follow the steps outlined in the "Setting the Clock" section. Then, set the timer.

- When you press **F.FWD/▶** after pressing **PLAY/▲** or **STOP/▼** during steps 3) to 8), the input mode will move to the next step.
 - If you do not press **F.FWD/▶** within 5 seconds of setting an item, the input mode will move to the next step.
 - Press **REW/◀** to go back one step from the current setting during steps 4) to 9). If **REW/◀** is pressed when the **TIMER NUMBER** is flashing, the entire programme contents will be erased.
- 3) Programme number flashes. Press **PLAY/▲** or **STOP/▼** repeatedly until the desired programme number appears. Then, press **F.FWD/▶**.
 - 4) **For once-only recording** : Press **PLAY/▲** or **STOP/▼** repeatedly until the relevant month appears.
For daily recording : To record a TV programme at the same time on the same channel from Monday through Friday. While the month digit is flashing, press **PLAY/▲** or **STOP/▼** repeatedly to select "MO-FR".
For everyday recording : To record a TV programme at the same time on the same channel everyday. While the month digit is flashing, press **PLAY/▲** or **STOP/▼** repeatedly to select "MO-SU".
For weekly recording : To record a TV programme at the same time on the same channel every week. While the month digit is flashing, press **PLAY/▲** or **STOP/▼** repeatedly to select "W-MO" (Example: every Monday).
 - 5) **For once-only recording only** : Press **PLAY/▲** or **STOP/▼** repeatedly until your desired day appears.
 - 6) Press **PLAY/▲** or **STOP/▼** repeatedly until the relevant start hour appears. Next, enter the minute digit.
 - 7) Press **PLAY/▲** or **STOP/▼** repeatedly until the relevant end hour appears. Next, enter the minute digit.
 - 8) Press **PLAY/▲** or **STOP/▼** repeatedly until the relevant channel number appears.
 - 9) Press **PLAY/▲** or **STOP/▼** repeatedly until the desired tape speed appears.
 - 10) Press **F.FWD/▶**. Programme is now completed.
 • To set another timer programme, repeat steps 3) to 10).
 - 11) Press **MENU** to exit.
 - 12) Press **FUNCTION** to activate the timer.
 The indicator on the display comes on.



To Stop a Timer Programme which has Already Started

Press **STOP/EJECT** on the VCR.

Note: **STOP/▼** on the remote control will not function in the Timer Recording mode.

To Correct Timer Programmes

If you want to correct an automatic timer after you finished setting programme,

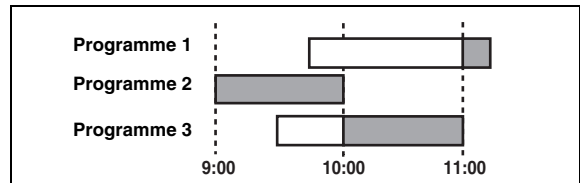
- 1) Repeat steps 1) to 3) in the "Timer Recording" section.
- 2) Select the setting you want to change using **F.FWD/▶** or **REW/◀**.
- 3) Enter the correct numbers using **PLAY/▲** or **STOP/▼**, then press **F.FWD/▶**.
- 4) Press **MENU** to exit.
- 5) Press **FUNCTION** to return to timer standby mode.

To Cancel or Check the Start/End Time

- 1) Repeat steps 1) to 2) in the "Timer Recording".
- 2) Select a programme number you want to check using **PLAY/▲** or **STOP/▼**. The details of selected programme appears on the TV screen. You may cancel the entire programme by pressing **REW/◀**.
- 3) Press **MENU** to exit.

Avoid Overlap of TIMER Programmes...

A timer programme does not work while another programme is under execution.



Hint for Timer Recording

- If there is a power failure or if the VCR is unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If the tape runs out before the end time, the VCR will switch to the Stop mode immediately, eject the tape and the VCR power will be turned off. The indicator will flash.
- If a tape is not in the VCR, Timer Recording cannot be performed and the indicator flashes. If an erasure-prevention tab of the tape is missing, the tape will be ejected and the indicator will flash. Please insert a recordable tape.
- When all the Timer Recordings are completed, the indicator also flashes. To play or eject the recorded tape, press **FUNCTION** *first*, and then press **PLAY/▲** or **EJECT ▲**. To rewind the tape to the beginning of the recorded programmes, press **AUTO RETURN** on the VCR.
- The TV that is connected to your VCR may be turned on or off when the VCR is in the Timer Recording mode.
- The VCR will only perform a Timer Recording after it has been placed into timer standby mode.

Auto Return

Using the AUTO RETURN Button

When all the Timer Recordings are completed the indicator flashes, press **AUTO RETURN** on the VCR *first*. The VCR will rewind to the beginning of the recorded programme(s).

Note: If there are any remaining programmes, press **FUNCTION** to turn on the VCR and then press **AUTO RETURN**. In this case, if you press any other button once and then press **AUTO RETURN**, **AUTO RETURN** will not be carried out.

Using the VCR Menu

If there are any remaining programmes including Daily, Everyday, & Weekly, AUTO RETURN will not operate.

- 1) Press **MENU**.
- 2) Press **PLAY/▲** or **STOP/▼** repeatedly to point to "SET UP", then press **F.FWD/▶**.
- 3) Press **PLAY/▲** or **STOP/▼** to point to "AUTO RETURN", then press **F.FWD/▶**.
[ON] will appear next to "AUTO RETURN".
- 4) Press **MENU**.

Watch the Recorded Timer Programme

Press **FUNCTION** to turn on the VCR, then press **PLAY/▲**.

Parents Lock

Parents Lock prevents use of the VCR by making the VCR feature buttons on the VCR and the remote control inoperative.

The PWR indicator on the display comes on.

- 1) Press and hold down **FUNCTION** on the remote control for 5 seconds until "PL" appears on the display. The Parents Lock is activated.
When you want to cancel it, press and hold **FUNCTION** on the remote control again for 5 seconds.

When Parents Lock is activated:

- The time will appear on the display. PL will appear on the display for 2 seconds every minute.
- You may insert a tape. However, the VCR power will remain off.
- You may press **EJECT ▲** to remove the tape (unless a Timer Recording is programmed or has finished).
- Timer Recording will take place as scheduled, even if Parents Lock is activated. "P.L." will appear steadily on the TV screen during the Timer Recording.

QUICK-FIND

This function enables you to search and confirm the contents of the recorded programme(s) using the index mark.

- Use the remote control for this procedure.
- The tape must be fully rewound.

- 1) Press **QUICK-FIND**.

To Skip to the Beginning of Next Programme

- 1) Press **QUICK-FIND**.

To View at Normal Speed

- 1) Press **PLAY/▲**. The Quick-Find is cancelled.

- Note:**
- This function will not operate in the Recording mode.
 - When you want to cancel the Quick-Find while in progress, press **STOP/▼**.
 - When the end of a tape is reached during the Quick-Find, the tape will automatically rewind to the beginning. After rewinding finishes, the VCR will eject the tape and turn itself off.

INDEX SEARCH

- The index mark will be made automatically when **REC/OTR** is pressed. It will also be marked at the starting point of Timer Recording and OTR.
- The index mark is not recorded if **PAUSE/STILL II** is pressed and released during recording.
- The time gap between index marks on the tape should be greater than 1 minute for SP recording and 2 minutes for LP recording.

- Use the remote control for this procedure.

- 1) Press **SEARCH MODE**.
- 2) Press **PLAY/▲** or **STOP/▼** repeatedly until the number of programmes that you want to skip appears.
- 3) Press **REW/◀** or **F.FWD/▶**.

The VCR begins rewinding or fast forwarding to the beginning of desired programme.

When the preset programme is reached, the VCR will start playback automatically.

- Note:**
- Index Search can be set up to 20.
 - This function will not operate in the Recording mode.
 - Operations must be followed up within 30 seconds from steps 2) to 3), otherwise the Index Search mode will be cancelled.
 - To exit the Index Search mode, press **MENU** in step 2) or press **STOP/▼** after step 3).

TIME SEARCH

If a tape includes both programmes recorded in the PAL system and ones recorded in the NTSC system, this function may not be operated correctly.

- Use the remote control for this procedure.

- 1) Press **SEARCH MODE** twice.
- 2) Press **PLAY/▲** or **STOP/▼** repeatedly until the desired time appears.
- 3) Press **REW/◀** or **F.FWD/▶**.

The VCR begins rewinding or fast forwarding to the specified point.

When 0:00 is reached, the VCR will start playback automatically.

- Note:**
- Time Search can be set up to 9 hours 59 minutes (9:59).
 - This function will not operate in the Recording mode.
 - Operations must be followed up within 30 seconds from steps 2) to 3), otherwise the Time Search mode will be cancelled.
 - To exit the Time Search mode, press **MENU** in step 2) or press **STOP/▼** after step 3).

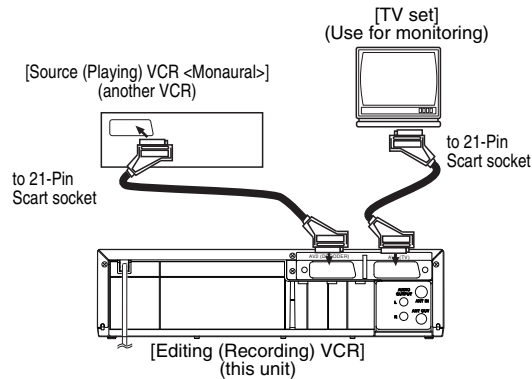
Copying a Video Tape

You can make copies of videotapes made by friends or relatives for your own enjoyment.

WARNING:

- **Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.**

Connect the recording VCR (this unit), playing VCR (another VCR) and your TV as outline in the following diagram.



- 1) Insert a pre-recorded videocassette into the playing VCR.
- 2) Insert a blank videocassette, or one you want to record over, into the cassette compartment of the recording VCR.
- 3) Press **SPEED/SYSTEM** on the remote control to select the desired recording speed (SP/LP).
- 4) Select "AV2" position on the recording VCR. See "Other Connections".
- 5) Press **REC/OTR** on the recording VCR.
- 6) Begin playback of the tape in the playing VCR.
- 7) To stop recording, press **STOP/EJECT** on the recording VCR, then stop playback of the tape in the playing VCR.

- Note:**
- For best results during dubbing, use the VCR's front panel controls whenever possible. The remote control might affect the playback VCR's operation.
 - If video or colour fades in and out, you may be copying a copy guarded video tape.

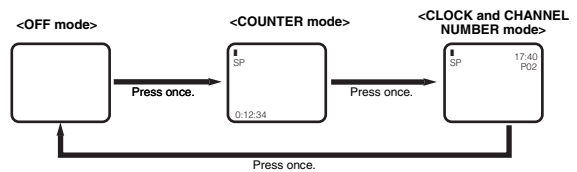
To Monitor the Recording

Turn on the TV and select the external input channel connected with VCR on the TV.

A Status Display

To check the Counter, or Clock & Channel number, press **DISPLAY**. Each time you press **DISPLAY**, TV screen will change as illustrated:

When you select the channel using the **number buttons**, select the desired channel (position number).



- Note:** If the on screen display or indicators on the front panel show an abnormal reading or no reading, unplug the VCR for 2 minutes, then replug it again. Please note that language, clock, and timer settings will be cleared after disconnection.

Maintenance

Cabinet Cleaning

- Wipe the front panel and other exterior surfaces of the VCR with a soft cloth that has been immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the VCR. Such chemicals may cause damage and discolouration to the exposed surfaces.

Auto Head Cleaning

- This feature automatically cleans the heads as you insert or remove a cassette to ensure a clear picture.
- The playback picture may become blurred or interrupted even if the TV programme received is clear. This does not mean that the recorded programme has been erased. This problem is caused by dirt accumulated on the head after long periods of use, or usage of rental or old tapes. In this case, head cleaning requires highly technical expertise and the nearest dealer should therefore be consulted. Clean heads only when problems occur.

Troubleshooting Guide

If you have followed the instructions contained in this manual and have difficulty in operating your VCR, locate the SYMPTOM in the left column below. Check the corresponding cell CORRECTIVE ACTION columns to remedy the problem.

SYMPTOM	CORRECTIVE ACTION
No power.	<ul style="list-style-type: none"> • Make sure the power cord is connected to an AC outlet. • Make sure the power is turned on.
Timer Recording is not possible.	<ul style="list-style-type: none"> • Make sure the Timer Recording is set correctly. • Make sure the power is off. • Make sure the VCR clock is set correctly.
Recording mode cannot be engaged.	<ul style="list-style-type: none"> • Make sure the erase-prevention tab on the tape is intact. If removed, cover the hole after the tab with adhesive tape.
No picture or poor picture on playback.	<ul style="list-style-type: none"> • Set your TV to the video channel. • Fine tune your TV.
No picture but the audio is OK in playback.	<ul style="list-style-type: none"> • Head cleaning is necessary, consult the nearest Authorized Service Centre.
Playback picture is partially noisy.	<ul style="list-style-type: none"> • Adjust tracking control for a better picture by using CHANNEL (▲/▼).
On-the-air TV programmes cannot be seen.	<ul style="list-style-type: none"> • Re-check the ANT IN and ANT OUT connections. • Set your TV to the TV channel correctly.
No operation by infrared Remote Control.	<ul style="list-style-type: none"> • Check the batteries in the remote control.
Video or colour fades in and out when making a copy of a video tape.	<ul style="list-style-type: none"> • You cannot copy a copyrighted video tape. You are experiencing copy guard protection.

Make your contribution to the environment!!!



Service

Should your VCR become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn the unit off, unplug the power cord, and take the unit to a Service Centre for servicing.

PAL/MESECAM

- This unit can be played as MESECAM system when in MESECAM position. (See "Playback" section.)
- Playback a tape recorded with SECAM broadcasts in Middle East areas are possible on this unit.
- When a recorded tape with a SECAM-VHS appliance or a SECAM recorded tape is replayed with this appliance, black and white pictures are produced.
- This appliance cannot be used in France: a SECAM system appliance must be used instead.

- Spent batteries do not belong in the dustbin.
- You can dispose of them at a collection point for spent batteries or special waste.

Contact your council for details.

Specifications

General Specifications

Television system	PAL B/G, PAL D/K, SECAM B/G, SECAM D/K TV standard
Video heads	Four-video and Two-audio heads helical scan system
Tape width	12.65mm
Tape speed	SP :23.39mm/sec. LP :11.70mm/sec.
Tuner channel	E2~E12 E21~E69 R1~R12 CATV

Note: This VCR complies with HYPER and OSCAR frequency bands of the CATV.

Timer indication	24-hour system
Operating temperature	5°C ~ 40°C
Terminals	ANT IN ANT OUT AUDIO/VIDEO VIDEO input AUDIO input/output
	Coaxial type, female Coaxial type, male 21 pin scart socket x 2 RCA connector x 1 RCA connector x 4

Declaration of Conformity

This product complies with the requirement of the related directives.

We: FUNAI ELECTRIC EUROPE Sp. z o.o.
ul. Inżynierska 1, 67-100,
Nowa Sól, Poland

declare that the following product:

VIDEO CASSETTE RECORDER

Model D50Y-100M

Trade Name: Funai

is in compliance with the related regulations.

Electrical Specifications

Video output level	1Vp-p
Video output impedance	75Ω unbalanced
Audio output level	-6dBv
Video input level	0.5 ~2.0Vp-p
Audio input level	-10dBv
Video S/N ratio (STANDARD)	45dB
Audio S/N ratio (STANDARD)	41dB

Other Specifications

Power requirement	220-240V ~ 50Hz
Power consumption	25 Watts
Dimensions	W 360mm H 92mm D 226mm
Weight	2.4 Kg (approx.)

Note: Designs and specifications are subject to change without notice.

