

3WAY COMBINATION UNIT



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2 Contents

Chapter One

YOUR NEW 3WAY COMBINATION UNIT

List of Features

Your 3way Combination Unit was designed with the latest technology. This 3way Combination Unit is a high-performance unit that includes the following special features:

TV Features

- Full Flat screen
- Automatic timer to turn the 3way Combination Unit on and off
- Adjustable picture and sound settings that can be stored in the 3way Combination Unit's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- V-chip function

DVD Features

- DTS digital output for DTS-enhanced DVDs
- Playback MP3, JPG, WMA, MPG files from CD-ROM

Discs which cannot be played with this player.

 DVD-ROM 	 CDGs play audio only,
CD-ROM	not graphics.
• CDI	• CDV
• HD layer of super Audio CD	

VCR Features

- Hi-Fi Stereo VCR.
- 4 heads for superior slow motion and stop action
- Playback of S-VHS tapes at better than standard resolution
- Real time counter

Familiarizing Yourself with The 3way Combination Unit

Front Panel Buttons

The buttons on the front panel control your 3way Combination Unit's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.

• CFTD2785



• CFTD2085



1.2 Chapter One: Your New 3way Combination Unit

YOUR NEW 3WAY COMBINATION UNIT

- Disc tray Load the disc here.
- **2 VCR deck** Insert a standard VHS video tape.
- SKIP/SEARCH (DVD) Press to skip or search the title, chapter or track.
- PLAY/PAUSE (DVD) Press to play or pause the disc
- STOP (DVD) Press to stop the disc
- **6** OPEN/CLOSE (DVD) Press to open and close the disc tray.
- **O STAND BY indicator** Lit when TV power is Off.
- **3 TIMER indicator** Lit when the program times are stored.
- 9 REC indicator Lit when the VCR is recording.

- Remote Control Sensor Aim the remote control towards this spot on the TV.
- **BALE (VCR)** Press to begin recording.
- STOP/EJECT (VCR) Press to stop a video tape during play, record, rewind, or fast forward. Press to eject a video tape if the tape is stopped.
- BREW/FF (VCR) Press to rewind/fast forward a videotape.
- PLAY/PAUSE (VCR) Press to play or pause a video tape.
- VOLUME , + Press to increase or decrease the volume.
- CHANNEL ▼ and ▲ Press to change channels.
- Press to turn the TV on and off.

Front/Side Panel Jacks

You can use the Front/Side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see pages 2.1 - 2.6.)





• CFTD2085



VIDEO IN jack Used to connect a video signal from a camcorder or video game. Categoria

AUDIO IN jacks Used to connect the audio signals from a camcorder or video game.

Chapter One: Your New 3way Combination Unit 1.3

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a camcorder.

For more information on connecting equipment, see pages 2.1 - 2.6.



DIGITAL AUDIO OUTPUT Connect to a compatible dolby digital receiver.

VIDEO-AUDIO INPUTS Used to connect video-audio signals from VCRs, laserdisc players and similar devices. AUDIO-VIDEO MONITOR OUTPUTS Connect to the audio-video input jacks of a recording VCR.

Ø VHF/UHF

Connect to an antenna or to a cable 3way Combination Unit system.

1.4 Chapter One: Your New 3way Combination Unit

Remote Control (TV Function Buttons)

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.

0 POWER

Turns the 3way Combination Unit on and off.

Ø +100

Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."

6 MTS (Multichannel Television Stereo)

Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

O MUTE Press to temporarily cut off

the sound.

OVOL +, VOL -Press increase or decrease the volume.

G S.MODE Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).

Ø MENU

Displays the main on-screen menu.

Control the cursor in the menu Allows move to items.



O TV/VCR ↔ DVD selection

Press to switch between TV/VCR, and DVD mode.

PRE-CH

Tunes to the previous channel.

INPUT

Press to watch the TV picture or a picture from a connected component (VCR, camcorder etc...)

Ø SLEEP

Press to select a preset time interval for automatic shutoff.

CH and CH (Channel Down/Up) Press CH or CH to change channels.

Ø P.MODE

Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).

@ INFO

Press to see the channel, time, current disc mode, audio/video settings etc., on-screen.

@ ADD/DEL

Press to add or erase channels in the TV's memory.

Chapter One: Your New 3way Combination Unit 1.5

Remote Control (DVD Function Buttons)

Search Press to search forward/back ward through a disc.

- 2 Stop Press to stop a disc.
- 3 ENTER Confirms a selection.
- OPEN/CLOSE Press to open or close the disc tray.

STEP Press to advance play one frame at a time.

- OPERATING STATES TO A STATE
- **O** ANGLE Press to access various camera angles on a DVD.
- **BROGRAM** For program play.



🛿 Skip

Press to skip the title, chapter, or track.

- Play/pause Press to play or pause disc play.
- DVD MENU

Displays the DVD play's Setup menu.

- **OSUBTITLE** Press to display the subtitle language name abbreviation onscreen.
- RETURN Press to return to a previous menu or exit.
- AUDIO
 Press to access various audio
 functions on a disc.
- CLEAR Press to clear on-screen displays.
- BOOKMARK Press to memorize scenes for replay.
- REPEAT Press to repeat play a title, chapter, track, or disc.

1.6 Chapter One: Your New 3way Combination Unit

Remote Control (VCR Function Buttons)

TRK+, - (tracking) Press to adjust tape tracking.
 REW/F.F Press to rewind/fast forward a

3 Stop Press to stop a video tape.

video tape.

- OPEN/CLOSE
 Press to eject a tape.
- F.ADV (frame advance) Press to advance a tape frameby-frame.
- SP/SLP Press to select the tape recording speed.



P.PLUS Press to compensate for a poor rental tape.

- SLOW+, Press to watch a tape in slow motion.
- Play/pause Press to play or pause a tape.
- Press to begin recording.

Chapter One: Your New 3way Combination Unit 1.7

Chapter Two

INSTALLATION

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads," below.



If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads," on page 2.2.

	<u> </u>	
	smei	
122		٣

If you have two antennas, see "Separate VHF and UHF Antennas," on page 2.2.

Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.



Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).





Connecting Cable TV

To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box



◄ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels

1 Find the cable that is connected to the ANTENNA OUT terminal on your cable box.





➡ This terminal might be labeled "ANT OUT," "VHF OUT," or simply, "OUT."

Chapter Two: Installation $\mathbf{2}, \mathbf{2}$

Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)



continued...





After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

Connecting a Second VCR to Record from the TV

Your TV can send out signals of its picture and sound to be recorded by a second VCR.

To do this, connect your second VCR as follows:



1

Connect a coaxial cable between the ANTENNA OUT terminal on the VCR and the antenna terminal on the TV. A coaxial cable is usually included with a VCR. (If not, check your local electronics store).

2

Connect a set of audio cables between the VIDEO/AUDIO OUT jacks on the TV and the VIDEO/AUDIO IN jacks on the VCR.

(The VCR input jacks might be either on the front or on back of the VCR.)

If you have a mono VCR, connect L(mono) to VCR audio out using only one audio cable. Refer to your VCR's instructions for more information about how to record using this kind of connection.

Chapter Two: Installation $\mathbf{2}, \mathbf{4}$

Connecting a Camcorder

The front/side panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR. (Also see "Viewing a VCR or Camcorder Tape" on page 3.17)



1

Locate the A/V output jacks on the camcorder. They are usually found on the side or rear of the camcorder.

2 Connect an video/audio cable between the VIDEO/AUDIO OUTPUT jack on the camcorder and the VIDEO/AUDIO terminals on the TV.

If you have mono camcorder, connect L(mono) to camcorder audio out using only one audio cable. The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

Note: This figure shows the Standard connector-jack panel. The actual configuration for your TV may be different.

Connecting an Audio System (When playing a DVD)

The DIGITAL AUDIO OUT connector is used for equipment, such as an audio system (to take full advantage of the Surround sound effect).



Connect an optical cable between the DIGITAL AUDIO IN jacks on the AUDIO and the DIGITAL AUDIO OUT jack on the TV.

Chapter Two: Installation $\mathbf{2.6}$

1 Slide the cover out completely.

Installing Batteries in the Remote Control



 Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.



 Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the batteries last for about one year.)

Chapter Three

TV OPERATION

Turning the TV On and Off

Press the **POWER** button on the remote control. You can also use the Power button on the front panel.

Viewing the Menus and On-Screen Displays

Viewing the Menus



 The on-screen menus disappear from the screen after about thirty seconds.

◄ On the control panel of the TV to make selections.

Press the **MENU** button to exit.

Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.



 The on-screen displays disappear after about ten seconds.

CHAPTER THREE: TV OPERATION 3.1

Selecting a Menu Language



2 Press the UP/DOWN▲▼ buttons to select "Language". Press the LEFT/RIGHT ◀► buttons to select the appropriate language: English, Spanish, or French. Français	
--	--



3.2 Chapter Three: TV Operation

Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH \blacktriangle and CH \blacktriangledown buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).





Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)



2	Channel
Press the UP/DOWN	111 I
buttons to select "Auto	ANTICATV ANTICATV
Program".	Auto Program
	Fine Tune : 0
	Add/Erase
	▲ Move

Program
Stop

(144)

MEN

✓ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. Press the RIGHT ► button at any time to interrupt the memorization process and return to the Channel menu.





3.4 CHAPTER THREE: TV OPERATION

Adding and Erasing Channels (Manual Method)





3 Press the LEFT/RIGHT ◀► buttons or the number buttons to select the channel you want to add or erase.	Channel Channel : ANT 3 Set Erased Move ↔ Set IIIExit
	▲ Move ↔ Sel. ШExit

 ✓ You can view any channel (including an erased channel) by using the number buttons or LEFT/RIGHT ◆ buttons on the remote control.

Press the UP/DOWN▲▼ buttons to select "Sel.".	Channel Channel ANT 3 Sel. : Added
Press the LEFT/RIGHT buttons to select "Added" or "Erased".	T Move ◆ Sel. ⅢExit
Press the MENU button to	N MAAR A 261' TTTEXH

Chapter Three: TV Operation 3.5

Changing Channels

Using the Channel Buttons



◀ When you press the $CH \land$ or $CH \checkmark$ buttons, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Use the number buttons to quickly tune to any channel.





When you use the number buttons, you can directly select channels that were either erased or not memorized.

To select a channel over 100, press the +100 button. (For channel 122, press "+100," then "2," then "2.")

To change to single-digit channels (0-9) faster, press "0" before the single digit. (For channel "4," press "0," then "4.")

Using the Pre-CH Button to select the Previous Channel

Press the **PRE.CH** button. The TV will switch to the last channel viewed.



◄ To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the Pre-CH button to quickly alternate between them.

Adjusting the Volume



Using Mute

At any time, you can temporarily cut off the sound using the Mute button.





To turn mute off, press the **MUTE** button again, or simply press either the **VOL +** or **VOL**– buttons.



Chapter Three: TV Operation 3.7

Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, tint, color, and sharpness according to personal preference. (Alternatively, you can use one of the "automatic" settings. See next page.)



◄ After adjusting an item, the gauge will automatically disappear (after about 3 seconds).

3.8 Chapter Three: TV Operation

Using Automatic Picture Settings

Your TV has three automatic picture settings ("Dynamic", "Standard" and "Movie") that are preset at the factory. You can activate either Dynamic, Standard, or Movie by pressing PMODE (or by making a selection from the menu). Or, you can select "Custom" which automatically recalls your personalized picture settings.

1 Press the MENU button to display the menu. Press the LEFT/RIGHT ↓ buttons to display the Picture menu.	Image: State	
2 Press the LEFT/RIGHT ◀► buttons to select the "Dynamic," "Stamdard," "Movie," or "Custom" pic- ture setting. Press the MENU button to exit.	III Mode Dynamic ► IP Color Tone Cool 2 Size Normal Digital NR Digital NR Off IX Move Set	

Alternate method:



- Choose Dynamic for viewing the TV during the day or when there is brightlight in the room.
- Choose Standard for the standard factory settings.
- Choose Movie when viewing the movie.
- Choose Custom if you want to adjust the settings accordings to personal preference (see "Customizing the Picture", page 3.8).

Changing the Color Tone

1 Picture Press the MENU button to ✓ Dynamic ➤
 Cool 2
 Normal
 Off Mode Color Tone Size display the menu. Press the LEFT/RIGHT Digital NR buttons to display the Picture menu. Exit **▲▼** Move ↔ Sel.

2		1
Press the UP/DOWN	Picture	
buttons to select Color	Mode 🖌 🖌 A Dynemic 🕨	
Tone.	Color Tone : Cool 2 Size Normal Digital NR Off	
Press the LEFT/RIGHT		
buttons to select "Cool 2",		
"Cool 1", "Normal",	▲▼ Move	
"Warm 1" or "Warm 2"	L	्रि
according to personal	an a sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	
preference.		



3.10 Chapter Three: TV Operation

Changing the Screen Size (Depending on the model)



2 Press the UP/DOWN▲▼ buttons to select "Size".	III Picture Image: Picture Adde Image: Picture Oynamic ► Color Tone Cool 2 Size Zoom	
Press the LEFT/RIGHT	Digital NR Of	
buttons to select		
"Normal", "Zoom" or		
16:9	▲ Move Sel.	



- Normal : Sets the picture to 4:3 normal mode. This is a standard TV screen size.
- Zoom : Sets the picture to Zoom mode.
- 16:9 : Sets the picture to 16:9 mode.

buttons to adjust the fine

tuning.

Fine Tuning Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

Press the UP/DOWN▲▼ buttons to select "Channel".	buttons to select	Select the appropriate channel. Press the MENU button to display the menu.	III Channel JJ TV/AV TV ► ANT/CATV ANT ► Auto Program Fine Tune 0 Add(Erase ►
	2	[1] A. M. Martin, M. M. Mar Martin, M. Martin, M. Mar Martin, M. Martin, M. Mart	▲♥ Move ↔ Sel. Exit

3 To store the fine tuning set- ting in the TV's memory, press the UP ▲ button. (An asterisk "*" will appear.) To reset the fine tuning to "0," press the DOWN ▼ but- ton.

🔊 Add/Erse 🔹 Adj.

◄ After you adjust the fine tuning, the color of Channel No. will turn into red if you press the DISPLAY button while watching this channel.



T

⊞Exit

3.12 CHAPTER THREE: TV OPERATION

Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

Press the MENU button to display the menu. Press the LEFT/RIGHT I buttons to display the Picture menu.	III Pleture J3 Mode Oynamic Color Tone Cool 2 Normal Dipital NR Off Image: State Sta
r totule incite.	▲ Move Sel.

Press the UP/DOWN▲▼ buttons to select "Digital NR". Press the LEFT/RIGHT ◀► buttons to select Digital NR "On".	III Picture III Mode ✓ Dynamic ▶ Color Yone Cocl 2 Size Normal Digital NR Off III Move ✓ Move ✓ Sel. 	
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Chapter Three: TV Operation 3.13

Tilt (Depending on the model)

Due to the Earth's magnetic field there may be same minor image tilt depending on the TV's location. When this occurs, follow the steps below.

1 Press the MENU button to display the menu.	III Picture III
Press the LEFT/RIGHT 🔶	Digital NR Of
buttons to display the	
Picture menu.	
	▲♥ Move ◆ Sel. ШExit

2 Press the UP/DOWN▲▼ buttons to select "Tilt",	III Mode ▲ Dynamic ► Color Tone Cool 2 Siza	
Press the LEFT/RIGHT I	CC Digital NR Off Tilt + 3	



3.14 Chapter Three: TV Operation

Customizing the Sound

The sound settings can be adjusted to suit your personal preferences. (Alternatively, you can use one of the "automatic" settings. See next page.)

1	Sound	
Press the MENU button to display the menu.	Mode Custom	
	MTS Stereo	
Press the UP/DOWN▲▼ buttons to select "Sound",		
then press the LEFT/RIGHT	▲▼ Move ◆ Sel. ШExit	
◆ buttons.		
2		
Press the UP/DOWN▲▼	Sound	
buttons to select "Adjust",	Adjust	
the press the LEFT/RIGHT the buttons.	Bass 17 Troble 15	
	Balance L 15 R 15	90 ¹ 1996 1997 1997
	▲▼ Move ◆ Sel. ШExit	
	J	a Maria Ang Sangara Ang Sangara
3		
Press the UP/DOWN▲▼		
buttons to select a partic- ular item.		
Press the LEFT/RIGHT I buttons increase or	Bass 17	
decrease the value of a	Dass 17 5	
particular item.	J	· · · ·
		_
4		wil
Press the MENU button to		abo
exit.	MENU	
	ASTAV	
	$ \langle \rangle \langle \rangle \rangle$	

 After adjusting an item, the gauge vill automatically disappear (after bout 3 seconds).

Chapter Three: TV Operation 3.15

Using Automatic Sound Settings

Your TV has four automatic sound settings ("Standard," "Music," "Movie" and "Speech") that are preset at the factory. You can activate any of them by pressing the S.MODE button (or by making a selection from the on-screen menu). Or, you can select "Adjust," which automatically recalls your personalized sound settings.

1 Press the MENU button to display the menu.	Mode Custom >	
Press the UP/DOWN▲▼	ED MTS Stereo	
buttons to select "Sound",		
then press the LEFT/RIGHT buttons .	▲▼ Move ◆ Sel. ⅢExit	



Alternate method:

Simply press the the **S.MODE** button on the remote control to select one of the standard sound settings.

- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialogue (i.e., news).
- Choose Custom to recall your personalized settings.

Choosing a Multi-Channel Soundtrack (MTS)

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)

1 Press the MENU button to display the menu. Press the UP/DOWN▲▼ buttons to select Sound. Press the LEFT/RIGHT ◀► buttons.	Image: Sound Image: Sound	
---	---	--





- Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose Stereo for channels that are broadcasting in stereo.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

You can also change the MTS setting by pressing the "MTS" button on the remote control.

Viewing a VCR or Camcorder Tape

You must select the appropriate mode in order to view the VCR or Camcorder signal on the TV.

1	- 1
Press the MENU button to display the menu.	Channel
	ANT/CATV ANT
Press the UP/DOWN▲▼ buttons to select	Fine Tune 0 Add/Erase ▶
"Channel", then press the	
LEFT/RIGHT buttons.	▲¥ Move ◆ Sel.

Press the LEFT/RIGHT ◀► buttons. You will switch between viewing the sig- nals coming from equip- ment connected to the TV's A/V jacks, and the TV signal.	III Channel IV/AV ▲ AV ► ANT/CATV ▲ AV ► Auko Program ► Fine Tune Q Add/Erase ► Image: Sel Image: Sel
Press the MENU button to	

Alternate method:

Simply press the **INPUT** button on the remote control one or more times until the required input is displayed.



Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV (Just press the DISPLAY button).

Option 1: Setting the Clock Manually

Press the MENU button to display the menu.	III ↓ Clock ↓ Timer
Press the UP/DOWN▲▼ buttons to select	Caption V-chip Language English
"Function", then press the	
LEFT/RIGHT LEFT /RIGHT	▲ Move Sel. Exit



3	1	
Press the UP/DOWN▲▼ buttons to select "Clock",	Enction	
then press the RIGHT ► button.	Clock set Manual Clock : 10 ; 30 am Date 1 / 01 / 2002	
Press the UP/DOWN▲▼		
buttons repeatedly until the correct hour appears.	▲▼ Adj.	

 When selecting the hours, be sure to select the proper time of day (am or pm).

You can change the hours by pressing the UP \blacktriangle or DOWN \checkmark button repeatedly (or by holding down either of these buttons).

 The time will appear every time you press the DISPLAY button.

4

After the hour is entered, Press the RIGHT ► (at this point the minutes digits will be highlighted). Press the UP/DOWN▲▼ buttons to select the correct minutes.

 IIII
 Function

 J
 Clock

 Clock set
 Manual

 Clock :
 10:30 am

 Date
 :1 / 01 / 2002

 III
 Tue

 III
 •Move
 III Exit

After selecting the correct minutes, press the RIGHT ▶ button.

CHAPTER THREE: TV OPERATION 3.19
Setting the Date





✓ If you make a mistake, press
 LEFT ◀ to move back to the
 incorrect item. Press the UP/DOWN
 ▲♥ buttons to change the item.

Option 2: Using the Local PBS Channel to Automatically Set the TV Clock







Press the RIGHT ► button.

Chapter Three: TV Operation 3.21





 $\mathbf{3.22}$ Chapter Three: TV Operation

Setting the On/Off Timer



 Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 3.18)



✓ When you set the hours, make sure the correct time of day (am or pm) appears to the right of the hour.

hours (i.e., the hour when the TV will turn on.)

Chapter Three: TV Operation 3.23



🛹 To deactivate the "On time," select "Off" during this step.



7 To set the Off time, press. the UP/DOWN▲▼ buttons to select "Off Time".

Press the RIGHT ► button and set the hours and minutes. (Follow the same procedure as in steps 1~6 above.)



Timer

Function

8 If you want to set the volume level when the TV turns on, press the DOWN ▼ button to select "On time volume". Press the LEFT/RIGHT **I** buttons to set the volume level you want when the TV turns on.





3.24 CHAPTER THREE: TV OPERATION

Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 15 to 180 minutes).

1 Press the MENU button to display the menu. Press the UP/DOWN▲▼ buttons to select "Function", then press the LEFT/RIGHT ◀► buttons.	III Function J2 Clock Timer Caption V-chip English Language English IV Move ♦ Sel.
2 Press the UP/DOWN▲▼ buttons to select "Timer", then press the LEFT/RIGHT ◀► buttons.	Image: Function Timer On time am Off Off time am Off Step Timer Off On time volume 10 Image: Provide the state
3 Press the UP/DOWN▲▼ buttons to select "Sleep Timer." Press the RIGHT ► button repeatedly until the appro- priate time interval appears (any of the preset values from "Off" to "180"). Press the MENU button to exit.	Image: Second state st

Alternate method:

Simply press **SLEEP** repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "180").



◄ After about 3 seconds, the sleep display will disappear from the screen, and the time interval will be set.

Chapter Three: TV Operation 3.25

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most DVDs and pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: **CC**.



Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field": Use the UP/DOWN▲▼, LEFT/RIGHT ◀► buttons to make the changes. (Follow the same procedure as in steps 3~4 above.) Press the **MENU** button to exit. Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

 In caption mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In text mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

◄ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

Using the V-Chip

The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

Setting Up Your Personal ID Number (PIN)



→ Note: If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0: POWER OFF → MUTE → 8 → 2 →

Chapter Three: TV Operation 3.27

How to Enable/Disable the V-Chip







How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.



3.28 Chapter Three: TV Operation





	The second se
	TV Guidelines
Press the LEFT/RIGHT	All FV V S L D
buttons. The "TV guide-	TV-Y ► U TV-Y7 ► U U U: Unblocked
lines" screen will appear.	B: Blocked
Press the UP/DOWN	TV-PG 🌢 U U -U -U -U
buttons to select one of the	TV-14 ▶ U U U U U U TV-MA ▶ U U U U U U U U U
six age-based categories:	
TV-Y Young children TV-Y7 Children 7 and over	▲ Move Sel. Exit
IV-Y/ Children / and over	

 Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

5

TV-G

TV-PG

TV-14 TV-MA

At this point, one of the TV-Ratings is selected.

General audience

Parental guidance

Mature audience

Viewers 14 and over

Press the LEFT/RIGHT **I** buttons: Depending on your existing setup, a letter "U" or "B" will be selected. (U= Unblocked, B= Blocked)

While the "U" or "B" is selected, press the UP/DOWN▲▼ buttons to block or unblock the category. Press the LEFT/RIGHT I buttons to save the TV guidelines. A TV-Rating will be selected. To select a different TV-Rating, press the UP/DOWŇ▲▼ buttons and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

- FV: Fantasy violence
- D: Sexual suggestive dialog
- L: Adult language
- Sexual situation S:
- V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

CHAPTER THREE: TV OPERATION 3.29

6 How to set the FV, D, L, S and V sub-ratings.

First, select one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page). Next, while the TV-Rating is selected, repeatedly press the LEFT/RIGHT **◆** buttons. This will cycle through the available sub-ratings (FV,L, S, D or V).

A letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is selected, press the UP/DOWN▲▼ buttons to change the sub-rating. Press the LEFT/RIGHT ◀► buttons to save the TV guidelines. A TV-Rating will be selected. To select a different TV-Rating, press the UP/DOWN▲▼ buttons and then repeat the process.

Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

7

Press the MENU button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes and DVDs will be encod-ed with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).





3.30 Chapter Three: TV Operation



		G	General audience (no restrictions).
4	MADA A Dottor	PG	Parental guidance suggested.
Press the LEFT/RIGHT	AAJ.	PG-13	PG-13 (Parents strongly cautioned).
buttons. The "MPAA Rating" screen will	G ► U PG ► U U: Unblocked PG-13 ► U B: Blocked	R	R (Restricted. Children under 17 should be accompanied by an adult).
appear.		NC-17	No children under age 17.
Repeatedly press the UP/DOWN▲▼ buttons to		х	X (Adults only).
select a particular MPAA	▲♥ Move	NR	Not rated.
category.			

While a particular category is selected, press the LEFT/RIGHT → buttons to activate it. A letter ("U" or "B") will be selected. Press the UP/DOWN ▲▼ buttons to select "U" or "B". Press the LEFT/RIGHT → buttons to save the settings and Press the MENU button to exit.

Note: The V-Chip will automatically block any category that is "more restrictive." For example, if you block the "PG-13" category, then "R," "NC-17," and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating."

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V.Chip button for an "emergency escape":

1. Press the MENU button on the remote control.

2. Press the UP/DOWN▲▼ buttons to select the "Function", then press the LEFT/RIGHT ◀► buttons.

3. Press the UP/DOWN▲▼ buttons to select the "V-Chip", then press the LEFT/RIGHT ◆ buttons.

4. Enter your PIN number, and press the LEFT/RIGHT I buttons to temporarily disable the V-Chip Lock.

Chapter Four

DVD OPERATION

Playing a Disc

Playback



Stopping Playback



Removing Disc





Pausing Playback

Press the **PLAY/PAUSE(►/II)** or **STEP** button on the remote control during playback. • Screen stops, no sound. • To resume again, press the **PLAY/PAUSE(►/II)** button

once again.



4.1 CHAPTER FOUR: DVD OPERATION

Step Motion Playback (Except CD)



- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press the PLAY/PAUSE (▶/Ⅱ) button to resume normal playback (You can only perform step motion playback in the forward direction).

Slow Motion Playback (Except CD)



- By pressing the FWD SEARCH button, you can select slow motion playback for 1/2, 1/4, 1/8 or 1/16 of normal speed.
- No sound is heard during slow mode.
- Press the PLAY/PAUSE(►/Ⅱ) button to resume normal playback.
- When playing a VCD, the reverse slow motion play will not work.

Using the Search and Skip Functions

Searching through a Chapter or Track



✓ When in search mode (2X/4X/8X/16X/32X) on a DVD or high-speed playback on a VCD, no sound will be heard.

- Press the FWD(►►) or REW(◀◀) SEARCH button on the remote control and press again to search at a faster speed (2X/4X/8X/16X/32X) on the DVD, VCD, CD.
- To return to normal speed playback, press the PLAY/PAUSE(►/Ⅱ) button.

Skipping Tracks



- When playing a DVD, if you press the NEXT SKIP (▶►) button, it moves to next chapter. If you press the BACK SKIP (▶◄) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a CD, if you press the NEXT SKIP (▶►) button, it moves to next track. If you press the BACK SKIP (I◄) button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.
- When playing a VCD 2.0 in MENU OFF mode, a VCD1.1 or a CD, if you press the NEXT SKIP(▶▶1) button, it moves to next track. If you press the BACK SKIP(I◄٩) button, it moves to the the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the NEXT SKIP(▶►) button, it moves forward 5 minutes. If you press the BACK SKIP(I<<) button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press the NEXT SKIP(→→) button, it moves to the next MENU or the next Track View display. If you press the BACK SKIP(→) button, it moves to the previous MENU or the previous Track View display.

Using the Display Function

When Playing a MP3/WMA

1

 Press the OPEN/CLOSE

 button.

 Place a disc gently into the

 tray with the disc's label

 facing up. Press the

 PLAY/PAUSE (▶/II) or

 OPEN/CLOSE button to

 close the disc tray.





To play another song file of the same music folder, press the STOP button and press theUP/DOWN▲▼ button to select a song file. Press the ENTER or

PLAY/PAUSE (▶/III) button.

To play another song file of another folder, press the LEFT ◀ button to move the music folder lists.



1100

CHAPTER FOUR: DVD OPERATION 4.4

In the case of CD-R MP3 discs, please follow all the recommendations for CD-R above, plus the comments below:

- Your MP3 files should be ISO 9660 or JOLIET format.
- ISO 9660 format and Joliet MP3 files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.
- When naming your MP3 files do not exceed 8 characters, and place ".mp3" as the file extension.

General name format of: Title.mp3. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: $(.,/,)_{=},+)$.

• Use a decompression transfer rate of at least 128 Kbps when recording MP3 files. Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate (conversion to MP3 format) of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with sampling rates below 128 Kbps will not be played properly.

- Do not try recording copyright protected MP3 files. Certain "securized" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI^M (registered trade mark of The SDMI Foundation). You cannot copy such files.
- Your DVD player only accepts one level of file directory.

Consequently you must choose:

- either to save all your MP3 recording files at the root of the disc;

 - and/or create folders in the directory for each artist or music type (e.g.classical, rock, jazz, etc)

• Important:

The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).

• This unit can play a maximum of 500 files and 300 folders per disc.

When Playing a MPG







button again to select a MPEG file. Press the ENTER or PLAY/PAUSE (▶/॥) button to begin play of the MPEG file.



4

To play another MPEG file of the same MPEG folder, press the STOP button and press the UP/DOWN▲▼ button to select a MPEG folder. Press the ENTER or PLAY/PAUSE (▶/II) button.





◄ To play another MPEG folder of another folder, press the LEFT ◄ button to move the MPEG folder lists. Repeat Steps 2 to 3.

CHAPTER FOUR: DVD OPERATION 4.6

When Playing a Picture CD





Rotating and Reversing the picture

1 Press the UP/DOWN▲▼ button to select the desired picture file of the file list, then press the ENTER button.



◄ If you want to return to the file list, press the STOP button.

2

Press the LEFT/RIGHT **I** button to rotate the picture.

Press the UP ▲ button repeatedly to reverse vertically. Press the DOWN ▼ button

repeatedly to reverse hori-



• Slide Show

zontally.

Press the LEFT/RIGHT ← button to select the desired picture file of the file list, then press the PLAY/PAUSE (▶/II) button.

• If you want to return to the file list, press the STOP button.

Viewing the Album Screen







ture, then press the PLAY/PAUSE (►/II) but-

ton.

◄ If you press the ENTER button after selecting the desired picture, the selected picture will be displayed only.

Using the Disc Menu





 Depending on the disc, the Disc Menu may not work.

Using the Title Menu





 Depending on the disc, the Title Menu may not work.
 The Title Menu will only be displayed if there are at least two titles in the disc.

4.9 Chapter Four: DVD Operation

Displaying the Disc Information





 Depending on the disc, the disc information will be displayed.

3 You can display by simply pressing the INFO button on the remote control.



 You may use the number buttons of the remote control to start play from a desired time.

Press the UP/DOWN▲▼ button to select the required item. Press the LEFT/RIGHT ◀► but-

4

To make the screen disappear, press the INFO button.

ton to make the required setup, then press the ENTER button.

DVD		
.	01/01	
с р е	03/40	
\odot	0:10:20	
1	ENG 5.1	
	Off	
an.	Off	

CHAPTER FOUR: DVD OPERATION 4.10



Depending on the disc, the 5D Sound function

• What is a Chapter?

Each Title on a DVD can be divided into chapters (similar to tracks on an audio CD).

•What is a Title?

A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.





Press the ENTER button repeatedly to zoom in on.

- DVD or VCD: 2X, 3X, 4X, 1/2X, 1/3X, 1/4X in order.
- Press the UP/DOWN▲▼ or LEFT/RIGHT ◀► button to select the part of the screen you want to zoom in on (2X/3X/4X).

Using the Zoom Function (DVD/VCD)

Using the Bookmark Function (DVD/VCD)

This feature lets you bookmark sections of a $\ensuremath{\text{DVD}}$ or VCR so you can quickly find them at a later time.



4.13 Chapter Four: DVD Operation

Recalling a Marked Scene







Clearing a Bookmark







- Up to three scenes may be marked at the same time.
- Depending on the disc, the Bookmark function may not work.

Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.



2 Press the UP/DOWN▲▼ button to select Function. Press the ENTER button. Press the UP/DOWN▲▼ button to select Repeat. Press the ENTER button. Press the ENTER button. Press the ENTER button.



A-B Repeat

- Press the **REPEAT** button. Select A-. Press the ENTER button at the point where you want the repeat play to start.
- Press the LEFT/RIGHT → button to select B. Press the ENTER button at the point where you want the repeat play to stop.
- ③ To return to normal play, press the LEFT/RIGHT ← button to select Off and press the ENTER button.

4.15 Chapter Four: DVD Operation



<u>Note</u>

- DVD repeats playback by chapter or title, CD and VCD repeat playback by disc or track.
- Depending on the disc, the Repeat function may not work.
- If the title or track is completed before marking the end (B), the end of title or track becomes B automatically.

Chapter Four: DVD Operation 4.16

Using the EZ View (Depending on the model)

You can adjust the screen setting (aspct ratio) which best corresponds to your viewing requirements.



- Wide, Normal/LB, Normal/PS Refer to page 22.
- SCREEN FIT

The top and bottom of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on the type of disc, the black bars may not disappear completely.)

Program Play (CD)

Program Playback



button to select Function. Press the ENTER button.

Press the UP/DOWN▲▼ button to select Program. Press the ENTER button.





Selected numvers are displayed in the first track.





The disc will be played in programmed order.

- Depending on the disc, this function may not work.
- Press the STOP button twice to cancel Program Play during playback.
- Opening the tray by pressing the OPEN/CLOSE button cancels Program Play.

Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.



4.19 Chapter Four: DVD Operation

Setting up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.



3 Proce the

Press the UP/DOWN▲▼ button to select the required menu (Player Menu, Disc Menu, Audio, or Subtitle). Press the ENTER button.



This function depends on what languages are encoded on the disc and may not work with all DVDs. If the selected language is not recorded on the disc, the original prerecorded language is selected.

Select the appropriate language by pressing the UP/DOWN▲▼ button. Press the ENTER button.

• Player Menu

Use the Player preference menu to select the language for the player's on-screen displays.

Disc Menu

Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.

- Select Others if the language you want is not listed.

Audio

- Use the Audio preference menu to select the sound-track language.
- Select Original if you want the default soundtrack language to be the original language the disc is recorded in.
- Select Others if the language you want is not listed.

Subtitle

- Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in. - Select Automatic if you want the subtitle language to be the same as the language selected as the audio preference.
- Select Others if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.
- You can select by simply pressing the SUBTITLE button on the remote control.

Setting up the Audio Options

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.



• Digital output : Off, Bitstream, PCM

Select Bitstream when using the Digital Audio Output. Converts to Dolby Digital Bitstream -5.1CH (in case of MPEG-2, 5.1CH or 7.1CH).

Select PCM when using the Analog Audio Outputs. Converts to PCM(2CH) audio.

• Dynamic Compression

.....

- Off : To select the standard range.

.............

- On : To select dynamic compression.

.....

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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

Setting up the TV Aspect

You can adjust the screen setting (aspect ratio) which best corresponds to your viewing requirements.



- **4:3 Letter Box** :Select when you want to see the total 16:9 ratio screen DVD supplies. Black bars will appear at the top and bottom of the screen.
- **4:3 Pan Scan**: Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- 16:9 Wide : You can view the full 16:9 picture on your widescreen TV.

Setting up the Display Options



Screen Messages : On or Off.

Use to turn on-screen messages on or off.

Black Level : On or Off. Adjusts the brightness of the screen.

Setting up the Parental Control







◄ The options available in the Parental Setup group are displayed with the Use Password selected.

If you have lost your password, enter the master password (1369).





Chapter Four: DVD Operation 4.24
DVD OPERATION





4.25 CHAPTER FOUR: DVD OPERATION

Chapter Five

VCR OPERATION

In this chapter, you will learn how to play a video cassette tape, how to use the time counter and memory stop features, and how to record a program as you are watching TV.

Inserting and Ejecting a Video Cassette Tape

To insert a video cassette tape,



To eject a video cassette tape,

Press the STOP() but-

ton to stop playing the

1

tape.



 Don't try to insert a tape upside down or backwards.

Use only video tapes labeled "VHS." European PAL VHS video tapes and S-VHS pre-recorded tapes aren't compatible with this unit. Choose brand name, high quality tapes for best results.

◄ If the power is off when you insert a tape, the TV turns on auto-matically.

If the safety tab of your video tape has been removed, the tape begins to play automatically. You don't have to press PLAY. For more information on the safety tab, see page A.3.

✓ When you're finished playing a pre-recorded video tape, it's best to rewind it to the beginning and remove it from the VCR to protect it from wear and tear.

2 Press the STOP/EJECT button on the front control to eject the tape. ▲ After ejecting a tape, you should remove it completely from the compartment and turn off the VCR.

CHAPTER FIVE: VCR OPERATION 5.1

Playing a Pre-Recorded Video Cassette Tape

Playing the Tape



◄ For information on inserting a video tape, see page 5.1.



Pausing



 The VCR does not play sound while a video tape is paused.

See "Using Automatic Tracking" on the next page.

If the tape is still paused after five minutes, the TV/VCR automatically play the tape and switches to the TV mode to protect the video heads from excessive wear.

5.2 CHAPTER FIVE: VCR OPERATION

Using Picture Search

Picture search lets you quickly search a pre-recorded video tape for a particular scene.





 For information on inserting and playing a tape, see page 5.1 and 5.2.

There's no sound while you search for a picture at high speeds.

There may be some horizontal streaks on the screen while you search.

This technique is good if you're searching through only a small amount of tape. If you want to search through a large amount of tape, stop the tape before pressing FF or REW.

Using Automatic Tracking

2

Automatic tracking adjusts a video tape's tracking automatically in just a few seconds.





 For information on inserting and playing a tapesee page 5.1 and 5.2.

The tracking display will appear the first time a tape is played after being placed in the VCR, when there is a change in tape speed, or when you press the TRK buttons.

These two buttons can also be used to do vertical lock control.

Vertical Lock Control To reduce vertical jitter of the image in STD.L mode.

Chapter Five: VCR Operation 5.3

Using the Time Counter

The time counter allows you to keep track of how much time (in hours, minutes, and seconds) has elapsed on the video tape you're watching. The counter can also be useful if you want to find a specific point on a pre-recorded tape.



 For information on inserting and playing tapes see page 5.1 and 5.2.

2	
The time counter appears	01:02
in the upper left corner of	
he screen.	
[11] C. Contractory, C. L. Charles and a structure structure of the str	

 The counter displays time only for recorded sections of tape. Blank tapes or blank sections of tapes do not affect the counter display.

3	
Press the CLEAR button to	
set the counter to	
``00:00:00.″	



 The VCR automatically resets the counter to "00:00:00" when you eject a tape.



5.4 CHAPTER FIVE: VCR OPERATION

Using Memory Stop

Memory stop makes it easy for you to find a particular scene in a video tape. The VCR automatically stops rewinding or fast forwarding when the memory counter is at "00:00:00," so you simply need to mark the desired scene as "00:00:00." Then, you'll be able to search for that place the next time you watch the tape.



 If you want to remove the time counter memory from the screen and cancel the memory stop feature, just press the INFO button again.

CHAPTER FIVE: VCR OPERATION 5.5

To return to the scene you marked,



✓ For this feature to work, the time counter and the letter "M" must still be on the screen. If this isn't the case, press the INFO button until the time counter and the letter "M" are both on the screen.

Using P.PLUS

Press P.PLUS to compensate for a poor rental tape.





◄ If the tape is ejected and reinserted, the Picture Plus feature will be Off.

5.6 CHAPTER FIVE: VCR OPERATION

Recording TV Programs As You Watch

Recording

1 With your VCR turned on, and with a tape in the unit, press the **SP/SLP** button.



For information on inserting a video tape, see page 5.1.

Be sure the record safety tab is in place. For information on the record safety tab, see page A.2.

The tape speed appears in the the screen.

Press the SP/SLP button

you want (SLP or SP)

repeatedly until the speed



 SP (Standard Play) is the most common speed for recording.
 For more information on tape speeds, see page A.2.

3

appears.

2

Select the TV channel you want by pressing the CH or CH
 button or by using the number buttons.



◄ If you are using the number buttons to select the channel, press 0 before a single-digit channel number. For example, to select channel 5, press 0, 5.

4

Press the **REC** button. The record indicator on the control panel illuminates and the VCR begins recording.

Notes:

- The VCR automatically stops recording and rewinds when it reaches the end of the tape.
- Press the STOP button at any time to stop recording.

P.PLUS (ANGLE

- We don't recommend changing tape speeds while a recording is in progress. Doing so may cause distortion of the picture during playback.
- When you're finished recording, rewind the tape to the beginning and remove it from the VCR to protect the tape.
- When pressing the REC button on the front panel during DVD playback, the DVD will be recorded on the VCR tape. If your DVD title has been equipped with a Copy Protect technology, it can't be recorded on the VCR tape.
- You can play a DVD by switching into the DVD mode during channel recording.
- You can't play a DVD by switching into DVD mode during A/V recording.
- Mode Switching doesn't operate during recording in DVD mode.

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control again.

Editing While Recording

You can edit while recording, selecting only those scenes you want to record from the current television program. This is especially helpful if you want to record a program without the commercials.



see page 5.6.

After ten minutes in the pause mode, the VCR automatically stops the tape and switches to TV mode to protect the video heads from excessive wear. If this happens, press REC to resume recording.

Using Advanced Recording Features

Using One-Touch Recording

One-touch recording (OTR) lets you record television programs with the touch of a button. You can even program the length of time (up to four hours) that you want to record.



✓ For information, see "Recording Programs As You Watch" on page 5.7

The VCR won't record on a video cassette tape if the record safety tab on the tape has been removed. For information on the record safety tab, see page A.3.

Your recording time options are: 30 minutes, 1 hour, 1 hour and 30 minutes, 2 hours, 3 hours, or 4 hours.

You can increase the length of time you want to record at any time during the recording process by pressing the REC button again and choosing additional time.

If you want to stop recording before the time is up, press the REC button until the OTR display shows "0:00." The recording stops after a few seconds. Or, press the POWER button on the front panel, then immediately press the STOP/EJECT button.

Note: In DVD mode, the OTR function doesn't operate with the REC button on the front panel. A normal recording only operates.

Recording at a Later Time

You can set the built-in timer for unattended recording of up to eight different TV programs. The timer can turn on the TV at the time you select, record for a selected length of time, and then turn off the TV – all without you being there.

You can also choose to record a program one time, daily (every day, Monday through Friday), or weekly (the same day every week.)



✓ The clock must be set to the correct time and date before you program the timer. For more information on setting the clock, see page 3.19 and 3.20.



VCR Setup Press the RIGHT ► button. Press the UP/DOWN▲▼ Timer Record Ch START ENO Data buttons to select the 00 00 01 channel you want to pm -7.2002 record. opren 50 Mode Once AV Move Sel. **⊞Exit**



5.10 Chapter Five: VCR Operation





7 VCR Setup Press the RIGHT ► button, Timer Record then press the Ch START UP/DOWN▲♥ buttons to END Data 12 select the minute when you want to end record-SPEED Mode SP --ing. AT Move **TTTE**xit + Sel.

8

VCR Setup Press the RIGHT ► button. Timer Record The month will select. Ch START Press the UP/DOWN▲▼ ENC buttons to select the Data 8 .01 2002 month when you want to SPEED SP Moxie begin recording. **III**Exit AV Move Sel.

9 Press the RIGHT ► button, then press the UP/DOWNA▼ buttons to select the day when you want to begin recording.

 If you enter two program times that overlap, a program overlap warning appears on the TV screen, along with instructions for fixing the overlap.

The REC indicator on the front panel of the VCR is lit when program times are stored.

CHAPTER FIVE: VCR OPERATION 5.11

 The VCR automatically selects am or pm for the ending time.

The VCR automatically selects







POWE Press the POWER button

To enter additional program recording times, repeat steps 1-11.

If you enter two program times that overlap, a program overlap warning appears on the TV screen, along with instructions for fixing the overlap.

The timer indicator on the front panel of the TV illuminates when program times have been stored.

The TV should be turned off to record the programs you've chosen.

IMPORTANT:

to turn off the VCR.

13

- ٠ The TV should be off to record the programs you've chosen. But, if you are recording a channel that comes through a cable box, be sure to leave the cable box turned on and tuned to the channel you want to record.
- When a timer recording is in progress, there is no picture on the monitor because the ٠ power is off. If you want to watch the channel while it's being recorded, press POWER on the remote control only.
- One-time timer programs clear from memory automatically when the recording is ٠ finished. Daily and weekly programs remain in the timer until you remove them. If power to the TV is interrupted,timer program will be removed from memory. The clock and calendar, however, must be reset.



Using Program Review

Program Review allows you to review all of the programmed recordings currently stored in the VCR's memory and to remove a programmed recording quickly and easily.

Press the MENU button. Press the UP/DOWN▲▼ button to select "VCR Setup", then press the LEFT/RIGHT ◀► button.	Image: Constraint of the second of the se	Setup Of 5
	AV Move & Sel.	TTExit





o see the information for he program number, press the RIGHT ► button.	VCR Setup Imer Record Ch 7 START 10 30 am END 12 30 pm Data 8 17 2002 SPEED SP Wed Wed
	Mode ; Once

◄ If you're recording through a cable box, the Program Review screen displays the output channel of the cable box as the channel number to be recorded.

program from memory, Image: CH Start End press the CLEAR button Image: CH Start End when the program you Image: CH Start End want to erase appears on Image: CH Start End	1
want to erase appears on in the second secon	
the screen. That program is erased from memory.	
Press the MENU button to exit	

✓ The VCR is equipped with a program memory backup that saves all the timer program information if the power to the VCR is interrupted. If the unit has been without power, all of the timer program information will be disabled, until you reset the clock. When the clock is reset, the programs will be restored.

Chapter Five: VCR Operation 5.13

Using True Repeat

You can set your VCR to automatically repeat a tape or a section of tape. When you use True Repeat, your VCR will play until it reaches the end of a tape. Then, it will rewind to the beginning of the tape and begin playing again.

Press the MENU button.	UII VCR Setup
Press the UP/DOWN▲▼ button to select "VCR Setup", then press the	Program Review True Repeat Block Repeat 5
LEFT/RIGHT 🔶 button.	
	▲ Move ↔ Sel.

✓ For information on viewing the main menu, see page 3.1. For information on viewing the VCR setup menu, see page 5.10.



3 S.MODE P.MODE (44 Insert and play a pre-recorded video 8 **2-11** cassette tape. MENU DVD MENU P.SIZE INFO The VCR will play the tape until it reaches a the end of the tape. Then, the VCR will stop the tape, rewind it to the beginning, and begin playing again.

◄ For information on inserting and playing a tape, see pages 5.1 and 5.2.

If the VCR reaches an unrecorded section of tape before it reaches the end, it will search forward and check the tape again. If it finds a recorded section of tape, it will begin playing. If the tape is still blank, it will continue to search forward, until it reaches the end of the tape.



5.14 CHAPTER FIVE: VCR OPERATION

Using Block Repeat

Block repeat allows you to repeat a section of tape that you select. You can repeat this section of tape (the "block") from one to ten times, or endlessly.



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Using the HiFi Stereo

You can record or listen to a program in HiFi stereo.

Selecting the HiFi Mode

 The second s	
nsert the video cassette	-
ape,	
f the tape doesn't begin	
o play automatically,	
press the PLAY/PAUSE	
▶/II) button	

HiFi: High Fiedlity which produces better sound than standard stereo VCR.

2	(7) (8) (9)
Press the MTS button	(+100) (0)
repeatedly to select	MUTE MTS
"Mono," "Stereo", "Left"	() COT
or "Right".	VOL CH/TRK SLOW
 Martin Schuler, et al. Schuler, e	(+) $(-)$ $(+)$
- <u>.</u>	

MTS Recording / Monitor Mode

Type of broad	Display on	Stereo/SAP	Hi-Fi audio ta	ack (2-channel)	Normal audio
	the TV screen	Selection	L-channel	R-channel	track
Regular	None	Invalid	Mono	Mono	Mono
(Normal audio)					
Stereo broadcast	Stereo	Invalid	L	R	L+R
Bilingual broadcast	SAP	Stereo	Main audio program	Main audio program	Main audio program
		SAP	Sub audio program	Sub audio program	Sub audio progrma
Stereo & Bilingual	Stereo	Stereo	Ŀ	R	L+R
broadcast	SAP	SAP	Sub audio program	Sub audio program	Sub audio program

5.16 CHAPTER FIVE: VCR OPERATION

Video Dubbing

You can make a copy of another video cassette tape. This is called "dubbing." To dub, you need:

- your VCR,
- a separate VCR (or camcorder), and
- two A/V cables with connectors. (You can find these at most electronics supply stores.)

We recommend that you play the pre-recorded tape in the separate VCR (or camcorder) and record on your TV.

Making the Connections



Video Dubbing



◄ Important Warning: One Federal Court has held that unauthorized recording of copyrighted TV programs may be an infringement of copyright laws.





AV

The words "AV" appear in the upper left corner of the TV screen.

 TheVCR will be recording from the incoming line rather than from the normal broadcast signal.

"AV" will remain on-screen until the PLAY button is pressed on the playback VCR.

4

To begin recording, simultaneously press the **REC** button on the recording TV's remote control and the **PLAY/PAUSE** (▶/II) button, on the playback VCR (or camcorder).

5

When you are finished, press the **STOP()** button on both the VCR (or camcorder) and the TV to stop recording.



5.18 CHAPTER FIVE: VCR OPERATION

Using Special Playback Features

Your VCR provides you with special features that are available when you are playing a tape. These features are Frame Advance, and Slow Motion.

Frame Advance

Frame Advance allows you to watch a tape frame-by-frame.

T
While a tape is playing, press the PLAY/PAUSE
(►/II) button on the remote.
If the picture jitters, press the TRK +,- button.



2

Press the **F.ADV** button repeatedly to move forward frame-by-frame. Do not hold the button down. Press the **PLAY/PAUSE** (**>/II**) button to resume normal playback.



Slow motion

You can watch a tape at various slow-motion speeds.

1 While a tape is playing, press the **SLOW** + or **SLOW** – button on the remote. If the picture is jittery or shows noise, try using the **TRK** buttons to clear the picture,

normal play.

slow motion.

There is no sound during







 It is normal to occasionally see some streaks or jitter during slow motion play.

If slow motion continues for more than five minutes, the VCR may play automatically to protect the tape and video heads.

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Chapter Six

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

Identifying TV Problems

Problem	Possible Solution
Poor picture	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality	Try another channel. Adjust the antenna.
No picture or sound	Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings. If the set is moved or turned in a different direction, the power should be OFF for at least 30 minutes.
Picture rolls vertically	Adjust the antenna. Check all wire connections.
The TV operates erratically	Unplug the TV for 30 seconds, then try operating it again.
The TV won't turn on.	Make sure the wall outlet is working.
Disc does not play.	Ensure that the disc is installed with the label side facing up. Check the region number of the DVD. This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.
5.1 channel sound is not being reproduced.	 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper amplifier. 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly.

6.1 Chapter Six: Troubleshooting

TROUBLESHOOTING

Problem	Possible Solution
Disc does not play.	Ensure that the disc is installed with the label side facing up. Check the region number of the DVD. This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.
5.1 channel sound is not being reproduced.	 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper amplifier. 2) The disc is recorded with 5.1 channel sound. Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. Check if your audio system is connected and working properly.
The Øicon appears on screen.	 The features or action cannot be completed at this time because : 1) The DVD's software restricts it. 2) The DVD's software doesn't support the feature (e.g., angles). 3) The feature is not available at the moment. 4) You've requested a title or chapter number or search time that is out of range.
Disc Menu doesn't appear.	Check if the disc has a Menu.
Playback mode differs from the Setup Menu selection.	Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio can not be changed.	The Screen Ratio is fixed on your DVDs.
No audio.	Make sure you have selected the correct Digital Output in the Audio Options Menu.
If you experience other problems.	Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the pro- cedure once again. If the problem still cannot be solved, please contact your nearest authorized service center.

Identifying DVD Problems

TROUBLESHOOTING

Problem	Possible Solution	
Unit won't turn on.	Make sure the unit is plugged into a working wall outlet. Press the POWER button.	
Unit won't take video tape	Make sure the tape is window-side up with the arrow pointing away from you. Make sure there is no other tape in the compart- ment.	
Unit didn't record a program.	Make sure the antenna or cable is connected and that the TV/VCR is receiving the broadcast signal. Make sure the record safety tab is intact.	
Unit didn't record a timer program.	Make sure the unit was turned off. Check the programmed start and stop times. Make sure the time is set correctly.	
There is no picture, the picture is distorted during video tape play- back, or there is noise or streaks in the picture.	Adjust the tracking. Clean the video heads. Make sure there has been a recording on the tape.	
You can't receive regular broadcasts.	Check the antenna or cable connections.	
Rewind command doesn't work.	Make sure the VCR is not in pause mode. Make sure the tape hasn't already been rewound.	
Fast forward command doesn't work.	Make sure the VCR is not in pause mode. Make sure the tape hasn't already been forwarded.	
Picture is streaked during pause mode.	This is normal for SP and LP recordings.	

Identifying VCR Problems

6, 3 Chapter Six: Troubleshooting

Appendix

Cleaning and Maintaining Your 3Way Combination Unit

With proper care, your 3way combination unit will give you many years of service. Please follow these guidelines to get the maximum performance from your 3way combination.

Placement

- Do not place the 3way combination near extremely hot, cold, humid or dusty places.
- Do not place the 3way combination near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the 3way combination on a soft surface, such as cloth or paper.
- Place the 3way combination in a vertical position only.

Liquids

• Do not handle liquids near or on the 3way combination. Liquids that spill into it can cause serious damage.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your 3way combination with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

• If your 3way combination is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using Your 3Way Combination Unit in Another Country

If you plan to take your 3way combination with you to a foreign country, please be aware of the different television systems that are in use around the world. A 3way combination designed for one system may not work properly with another system due to differences in the 3way combination channel frequencies Appendix

Learning About Video Cassette Tapes

Choosing the Proper Tapes

Use only video cassette tapes marked VHS with this VCR. Choose good quality tapes for best results.

Caring for Video Cassette Tapes

- Keep the tapes away from direct sunlight, heat or extreme cold.
- Insert tapes with the window side up and the arrow pointing away from you.
- Do not subject tapes to violent vibrations or shocks.
- Never try to take apart or splice a video tape.
- Do not open the cassette, touch the tape, or put anything inside the video tape cartridge.
- Read the instructions supplied with a video tape

Choosing the Correct Recording Speed

Your VCR is equipped with variable tape speed. You can play or record a tape at:

- SP (Standard Play)—the fastest speed,
- SLP (Super Long Play)—the slowest speed.

When you are playing a tape, your VCR automatically selects the proper speed, even if segments of the tape have been recorded at a different speed.

When you are recording, the slower the tape speed you use, the longer the tape runs and the more program material it holds. SP provides the clearest record/playback picture, but special effects such as still picture work best in the SLP mode.

Use this chart to determine which tape speed to select when you are recording:

TAPE	SP	SLP
T-60	1hr.	3hrs.
T-120	2hrs.	6hrs.
T-160	2hrs. 40 mins.	8hrs.

Appendix

Using the Record Safety Tab

Most video cassette tapes have a safety tab that prevents accidental erasure. The safety tab is on the end of the tape opposite from where the arrow points.

The tab must be intact to record. You can record over and over on the same tape as long as the tab is intact. If you want to protect a tape from accidental erasure, break off the tab with a screwdriver, as shown here.

If you wish to erase a recorded tape or to record on a cassette with the tab removed, cover the hole with cellophane tape.





Sending Tapes to Another Country

Because various TV standards are used throughout the world, we recommend that you check for compatibility before sending your tapes to a foreign country. Tapes made on machines sold in the U.S.A. can be played back only on units that use the NTSC television system.

Specifications

Model	CFTD2785/CFTD2085
Voltage	AC 120V
Frequency of Operation	60Hz
Power Consumption	150 watts/130 watts
Dimension	CFTD2785: 758 x 504 x 638 mm/29.84 x 19.84 x 25.12 inches
	CFTD2085: 584 x 492 x 515 mm/22.99 x 19.37 x 20.28 inches
Weight	CFTD2785: 47.2 kg/104.06 lbs
	CFTD2085: 28.5 kg/62.83 lbs

