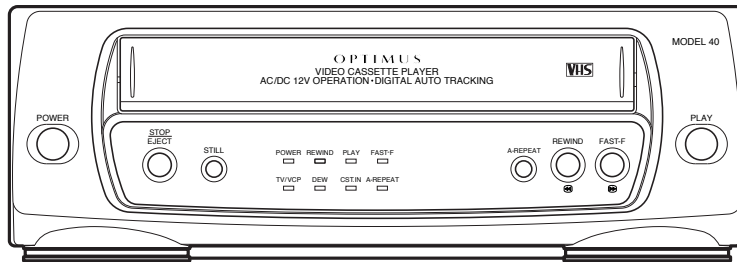


OWNER'S MANUAL

Model 40 AC-DC Video Cassette Player

Please read before using this equipment.



Cat. No. 16-430

OPTIMUS®

FEATURES

Your Optimus Model 40 AC-DC Video Cassette Player (VCP) is lightweight, easy to use, and has many convenient features, its dual power options let you enjoy it almost anywhere — at home or the office, or even in your vehicle. The VCP's compact size and front-loading design are especially ideal for vans, RVs or campers, and the supplied remote control lets you control it from a distance.

Its other features include:

Automatic Power-On — automatically turns on the VCP's power when you load a video cassette.

Quick Start Mechanism — automatically starts playback when you load a video cassette.

Automatic Play Speed Selection — senses the tape's recording speed and automatically adjusts the VCP for proper playback.

Automatic Rewind — rewinds the tape when it reaches the end.

Visual Search — lets you play a tape at a faster speed to quickly locate a specific portion of the tape.

Freeze-Frame — lets you pause the tape during playback so you can view a single frame.

Automatic Repeat — lets you set the VCP to automatically rewind and replay the video tape when it reaches the end.

Digital Auto Tracking — automatically aligns the playback heads to the recorded track.

Dew Protection System — keeps the VCP from playing a tape when the system senses moisture on the tape heads.

Soft-Touch Controls — let you easily control the VCP's functions.

Note: The remote control requires two AAA batteries (not supplied) for power.

We recommend that you carefully read this owner's manual. It was prepared to assist you with the initial setup procedures and to guide you in the everyday operation of the VCP.



We recommend you record your VCP's serial number here. The number is on the back of the VCP.

Serial Number: _____

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All Rights Reserved.

Optimus and RadioShack are registered trademark used by Tandy Corporation.

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

Warning: Do not use controls or adjustments not specified in this manual. If you remove the cover or attempt to service this unit, you might expose yourself to dangerous voltage.

IMPORTANT SAFETY INSTRUCTIONS

These simple precautions will help ensure that you get many years of safe enjoyment from your new product.

Read Instructions – Read all of the safety and operating instructions before operating the product.

Retain Instructions – Keep all safety and operating instructions for future reference.

Heed Warnings – Follow warnings on the product and in the operating guide.

Follow Instructions – Follow all operating and use instructions.

Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments – Do not use attachments not recommended by product manufacturer as they may cause hazards.

Water and Moisture – Do not use this product near water—for example, near a bathtub, wash bowl, sink, or laundry tub, in a wet basement, or near a swimming pool.

Accessories – Do not place product on an unstable cart, stand, tripod, bracket, or table. Product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of product should follow manufacturer's instructions and should use a mounting accessory recommended by manufacturer.

Transporting Product – Move product and cart combinations with care. Quick stops, excessive force, and uneven surfaces may cause product and cart combination to overturn.



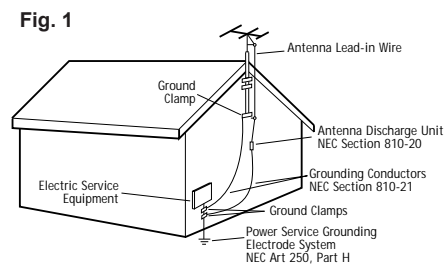
Ventilation – Slots and openings in cabinet must not be blocked or covered. They are provided for ventilation, to ensure reliable operation, and to protect from overheating. Never block openings by placing product on a bed, sofa, rug, or other similar surface. Do not place product in built-in installation such as a bookcase or rack unless proper ventilation is provided or manufacturer's instructions have been adhered to.

Power Sources – Operate product only from type of power source indicated on marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to manual.

Line-Cord Polarization – Product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). As a safety feature, this plug will fit into power outlet only one way. If you're unable to insert plug fully into outlet, try reversing the plug. If plug still fails to fit, contact an electrician to replace your obsolete outlet. Do not defeat safety purpose of polarized plug.

Power-Cord Protection – Route power-supply cords so they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from product.

Outdoor Antenna Grounding – If an outside antenna or cable system is connected to this product, be sure antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (USA), ANSI/NFPA 70 provides information on grounding of mast and supporting structure, grounding of lead-in wire to an antenna discharge unit connection to grounding electrodes, and requirements for grounding electrode. (See Fig. 1 below.)



NEC: National Electrical Code
Antenna grounding per NEC Code, ANSI/NFPA 70

Lightning – For added protection for this product during a lightning storm, or when product is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect antenna or cable system. This will prevent damage to product due to lightning and power line surges.

Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, take extreme care to keep from touching such power lines or circuits, as contact with them might be fatal.

Overloading – Do not overload wall outlets, extension cords or integral convenience receptacles, as this can result in risk of fire or electric shock.

Object and Liquid Entry – Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on product.

Servicing – Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Wall or Ceiling Mounting – Mount product to wall or ceiling only as recommended by manufacturer.

Replacement Parts – When replacement part(s) are required, be sure service technician has used replacement part(s) specified by manufacturer or have same characteristics as original part(s). Unauthorized substitutions may result in fire, electric shock, or other hazards.

Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under these conditions:

- a. If power-supply cord or plug is damaged.
- b. If liquid has been spilled or objects have fallen into product.
- c. If product has been exposed to rain or water.
- d. If product doesn't operate normally by following handbook instructions. Adjust only those controls covered by handbook instructions; improper adjustment of other controls may result in damage and often requires extensive work by a qualified technician to restore product to normal operation.
- e. If product has been dropped or cabinet has been damaged.
- f. If product exhibits a distinct change in performance.

Heat – Keep product away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Safety Check – Upon completion of any service or repairs to this product, ask service technician to perform safety checks to determine that product is in proper operating condition.

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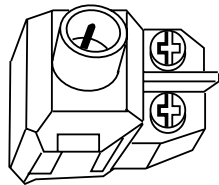
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PREPARATION

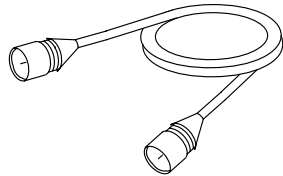
ACCESSORIES

Your VCP includes the following connection accessories. Be sure to unpack all of them before you throw away the packing material.

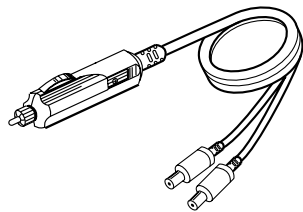
300-to-75-ohm Adapter — connects a 300-ohm antenna wire to the VCP's **ANT.IN** terminal.



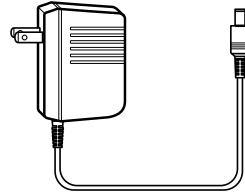
75-ohm Coaxial Cable — connects the VCP's **RF.OUT** terminal to your TV's 75-ohm antenna terminal.



VCP/TV DC Power Cord — lets you power the VCP and a portable TV (not supplied) from your vehicle's cigarette lighter socket.



AC Adapter — lets you power the VCP from a standard AC outlet.



CHOOSING A LOCATION

For safe and effective operation of your VCP, consider the following when you choose an installation location.

- Place the VCP away from direct sunlight and heat sources, such as radiators and heat vents.
- Do not place the VCP in a dusty or humid area.
- Do not block the VCP's ventilation holes. For example, do not push the back of the VCP against a padded surface.
- Place the VCP on a flat surface, away from strong vibrations or magnetic fields.
- Do not put anything on top of the VCP.

MAKING CONNECTIONS

You can connect your VCP to a TV monitor, a VCR (video cassette recorder), or both. To help you make the right connections:

- If connection a TV, use the connections de-scribed in “Connecting a Standard TV” on Page 7.

A “standard TV” can receive broadcast TV signals from an antenna or cable system, and can be tuned to different channels to view the broadcasts. It does not have separate audio and video input jacks.

- If connection a monitor or TV/monitor, use the connections described in “Connect-ing a TV/Monitor” on Page 8. (An additional audio/video cable is required.)

A “TV/monitor” is like a standard TV, but it also has separate audio and video input jacks. Using the separate audio and video input jacks results in a better quality picture and sound.

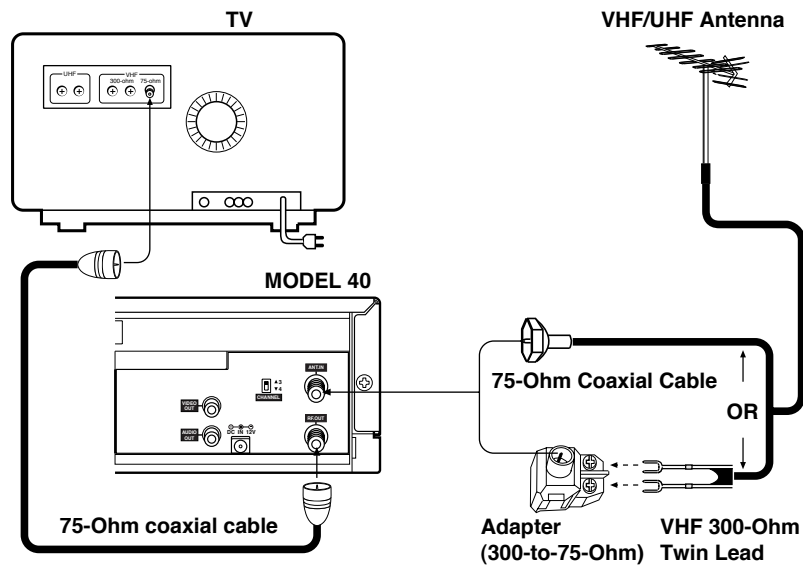
- If you want to connect a VCR to the VCP for copying tapes, use the connections described in “Connecting a VCR” on Page 9. (An additional audio/video cable is required.)

Note to the CATV System Installer:

This reminder is provided to call the CATV system installer’s attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Connecting a Standard TV

Follow these steps to connect the VCP to a standard TV that has a 75-ohm cable jack (but does not have separate audio and video input jacks).



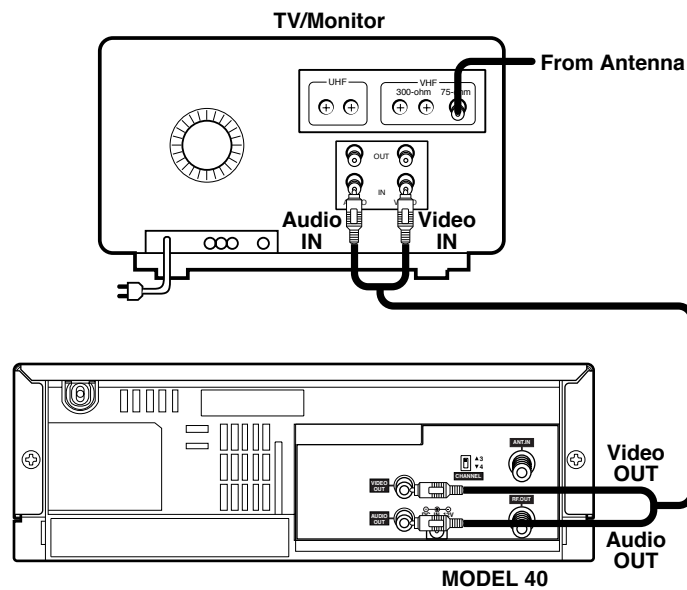
1. Make sure the TV is off, then disconnect the antenna or cable wire from your TV's VHF antenna terminal and connect it to the VCP's **ANT.IN** terminal.

Notes:

- If your antenna has a 300-ohm wire, connect the wire to the 300-ohm screw terminals on the supplied 300-to-75-ohm adapter. Then connect the adapter's 75-ohm connector to the VCP's **ANT.IN** terminal.
 - If you have a VHF/UHF splitter connected to your TV, disconnect the antenna wire from the splitter's input terminal and leave the splitter connected to the TV.
 - If you have a separate UHF antenna, leave the UHF antenna wire connected to the TV.
2. Using the supplied 75-ohm coaxial cable, connect the VCP's **RF.OUT** terminal to the TV's VHF antenna terminal (or the splitter's input terminal).

Connecting a TV Monitor

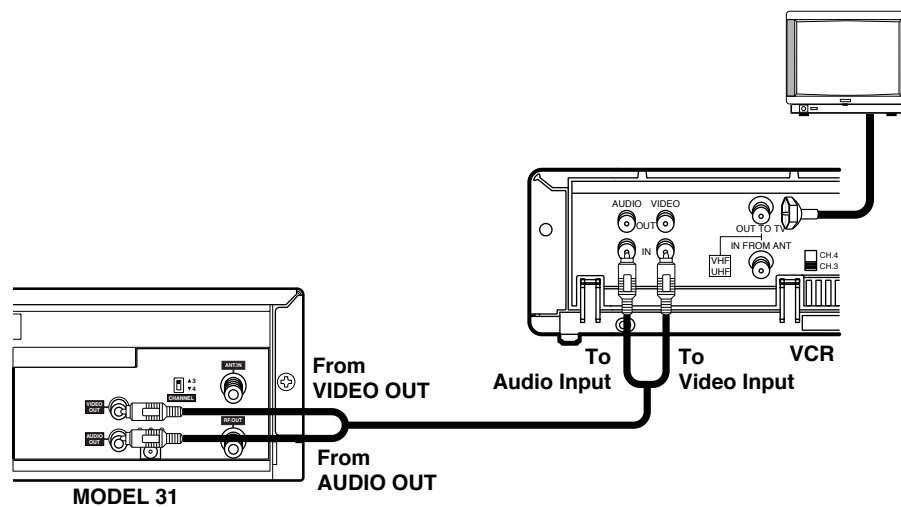
To connect your VCP to a TV monitor's separate audio and video input jacks, connect the VCP's **AUDIO** and **VIDEO OUT** jacks to the TV monitor's audio and video input jacks using video-quality shielded cable (not supplied).



Caution: You must use video-quality cable for this type of connection. Do not use standard audio cable. Your local RadioShack store sells the proper type of cable.

Connecting a VCR

To connect your VCP to a VCR so you can copy video tapes, connect the VCP's **AUDIO** and **VIDEO OUT** jacks to the VCR's audio and video input jacks using video-quality shielded cable (not supplied). Then see "Copying a Video Tape" on Page 17 to find out how to copy a tape.

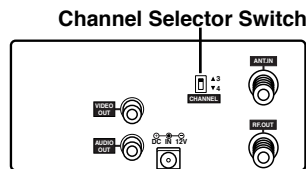


Notes:

- You must use video-quality cable for this type of connection. Do not use standard audio cable. Your local RadioShack store sells the correct type of cable.
- You can connect the VCR's audio/video output jacks to your TV's input jacks using another video-quality shielded cable or antenna output jack using 75-ohm cable. This lets you watch a tape while you copy it (see "Copying a Video Tape" on Page 17).

SETTING THE CHANNEL SWITCH

CHANNEL, on the back of the VCP, determines on which channel (3 or 4) a standard TV receives the VCP's signal. Set **CHANNEL** to **3** for channel 3, or **4** for channel 4.



Notes:

- If possible, set **CHANNEL** to a channel on which you do not receive regular television broadcasts.
- The **CHANNEL** setting has no effect on the audio and video outputs, nor does it affect a standard TV's operation when the VCP is not playing a tape.

CONNECTING POWER

Using the supplied adapters, you can power your VCP from either a standard AC outlet or your vehicle's cigarette-lighter socket.

Cautions:

- If you use the VCP in areas of high humidity or move it from a cold area to a warm one, allow it to warm up for about 2 hours before you plug it

in and operate it. This allows any damaging moisture to completely evaporate.

- If moisture has formed inside the VCP, it might not operate after you connect power (see "Dew Protection System" on Page 12).

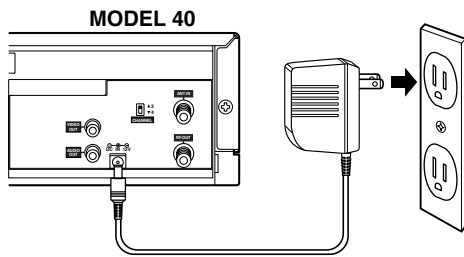
Using AC Power

The supplied AC adapter lets you power the VCP from a standard AC outlet.

Cautions:

- The supplied AC adapter provides 14 volts DC power and delivers 850 milliamps and has a plug that properly fits the VCP's **DC IN 12V** jack. Using an adapter that does not meet these specifications could damage the VCP, your TV monitor, or the adapter.
- When you unplug the AC adapter, grasp the adapter's plug, not its cord.
- Always plug the AC adapter into the VCP before you plug it into the AC outlet. Always unplug the AC adapter from the outlet before you unplug it from the VCP.

To use AC power, connect the AC adapter's barrel plug to the VCP's **DC IN 12V** jack, then plug the AC adapter's power cord into a standard AC outlet.



Using Vehicle Battery Power

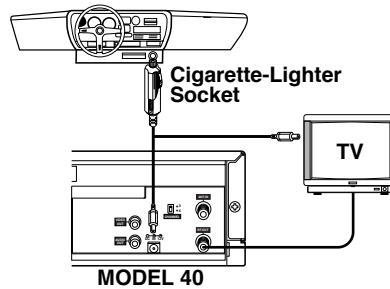
The supplied DC adapter lets you power your VCP and a portable TV (not supplied) from your vehicle's cigarette-lighter socket.

Cautions:

- The TV you use must have a DC 12-volt jack (with the center tip set to positive) that accepts the adapter's 5.5 mm outer diameter/2.1 mm inner diameter plug.
- Before plugging the power cord's cigarette-lighter plug into your vehicle's cigarette-lighter socket, be sure the knurled ring at the plug's tip is screwed firmly onto the plug.
- Always plug the DC adapter into the VCP and TV before you plug it into the cigarette-lighter socket. Always unplug the DC adapter from the cigarette-lighter socket before you unplug it from the VCP and TV.

- The VCP continues to draw a small amount of current from the vehicle's battery even after you turn it off, so be sure to disconnect the DC adapter from the cigarette-lighter socket when you are not using the VCP and TV, to prevent your vehicle's battery from being drained.

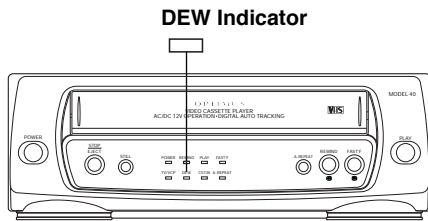
The DC power cord has two barrel plugs on one end and a cigarette-lighter plug on the other end. To connect DC power, plug one of the adapter's barrel plugs into the VCP's **DC IN 12V** jack, and plug the other into the TV's DC 12-volt jack. Then connect the cigarette-lighter plug into the vehicle's cigarette-lighter socket.



Note: If the DC adapter does not provide power, check the fuse. See "Replacing the Fuse" on page 22.

DEW PROTECTION SYSTEM

Your VCP's dew protection system helps prevent damage caused by moisture that can form on the VCP's tape heads. When the system senses moisture on the tape head(s), the DEW indicator turns on and the VCP does not let you play a tape.



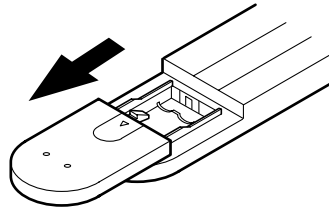
Caution: To avoid damaging the VCP mechanism, do not try to load a tape while the DEW indicator is on.

If DEW indicator turns on, disconnect the VCP's power for about 2 hours, then plug it back in. If the DEW indicator does not light, you can proceed with normal operation. If the DEW indicator turns on again, try unplugging the VCP for another 2 hours, or take it to your local RadioShack store for assistance.

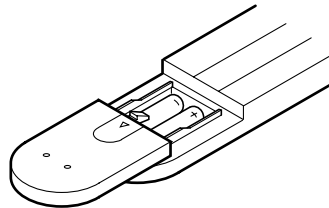
INSTALLING THE REMOTE CONTROL'S BATTERIES

The remote control requires two AAA batteries (not supplied) for power. For the best performance and longest battery life, we recommend alkaline batteries, such as RadioShack Cat. No. 23-558.

1. Remove the battery compartment cover, by sliding it in the direction of the arrow.



2. Place the batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside the compartment.



Cautions:

- Use only fresh batteries of the required size and type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

3. Replace the cover.

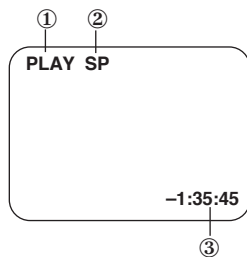
Notes:

- If you will not be using the remote control for a month or more, remove the batteries.
- You can use the remote control up to a distance of about 23 feet (7 meters) in front of the VCP. If it does not operate properly within this distance, replace the batteries.

Warning: Always dispose of old batteries promptly and properly.

VCP STATUS DISPLAY

VCP Status Displays tell you the status of the tape inserted and VCP function. VCP Status Display appears on the TV when a VCP function starts, like when you select a different VCP mode. For example, pressing **STOP** while the VCP is in **PLAY** mode show **STOP** in the display. Press **DISPLAY** on the remote at any time (except special effect playback mode) to see the status display.



- ① Tape speed display
EP = Extend Play
LP = Long Play
SP = Standard Play

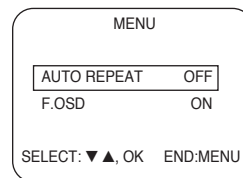
- ② Current mode of operation display
STOP, PLAY, FF(Fast Forward) etc.
- ③ Real-time tape counter display

Note:

- If the VCP status display does not appear on the TV screen, check the **FUNCTION OSD** option on the **MENU**. Select **ON** to see the display.

HOW TO ACCESS MENU

1. Press **MENU** to see menu.
2. Press the **SELECT** ▼ or ▲ to use choose desired option to be changed. Then you set desired mode by pressing the **OK** button repeatedly.
3. Press **MENU** to exit menu, or wait a few minutes and the VCR returns to normal operation.



AUTO REPEAT

If you want to play back tape repeatedly, set **AUTO REPEAT** option to **ON**. (See "Auto Repeat Playback" on page 16.)

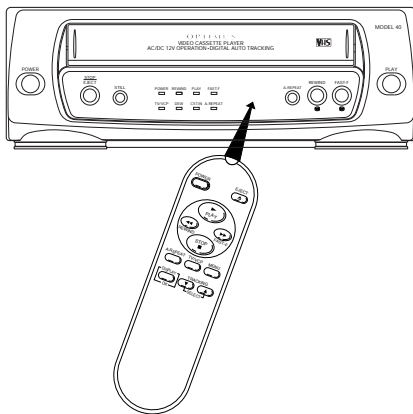
F.(Function) OSD

Switches the VCP status display **ON** or **OFF**.

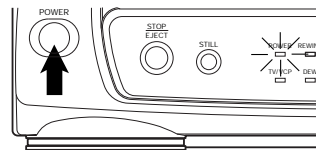
OPERATION

USING THE REMOTE CONTROL

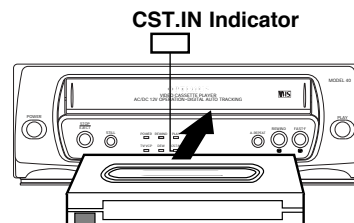
The buttons on the remote control function the same as those on the front of the VCP. To use the remote control, be sure the front end of it is pointing with a clear path toward the middle of the VCP's front panel, then press the desired button(s).



2. Press **POWER** to turn on the VCP. The red **POWER** indicator lights. Or, to use the VCP's auto power on feature, you can skip this step.



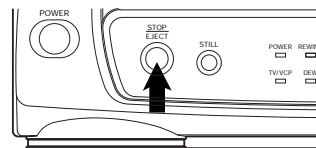
3. To load a video cassette tape, insert the tape halfway into the VCP's cassette door with the main label facing up and the spine label facing out. Then gently push on the center of the tape's spine until the VCP pulls the tape all the way in. The **CST.IN** indicator lights, then the **PLAY** indicator lights and the tape automatically begins to play.



PLAYING A VIDEO TAPE

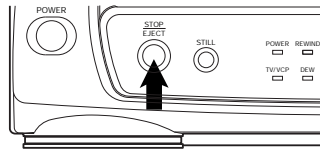
1. Turn on the TV or TV/monitor. If you connected a TV using the VCP's **RF.OUT** jack, tune the TV to the same channel (3 or 4) to which you set the VCP's **CHANNEL** switch. If you connected a TV/monitor using the VCP's **AUDIO** and **VIDEO OUT** jacks, switch the TV/monitor to the video setting.

4. To stop the tape during play, press **STOP**. The **PLAY** indicator turns off and the tape stops.



To start playback again, press **PLAY**.

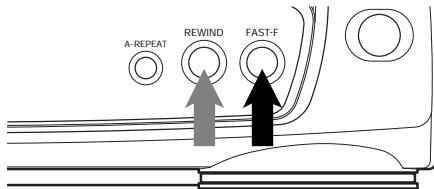
- To eject the tape, press **EJECT**. The CST.IN indicator flashes then turns off and the VCP ejects the tape.



- Press **POWER** to turn off the VCP. The red POWER indicator turns off.

FAST-FORWARD/REWIND

To fast-forward or rewind the tape at high speed, with the tape stopped, press **FAST-F** or **REWIND**. The FAST-F or REWIND indicator lights, and the tape fast-forwards or rewinds.



No picture appears on the TV/monitor when you fast-forward or rewind the tape from a stopped position.

The VCP automatically stops the tape when it reaches the end and rewinds the tape to the beginning.

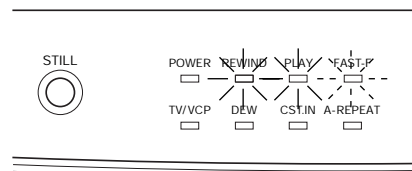
To stop the tape at any time during fast-forwarding or rewinding, press **STOP**.

Or, to stop fast-forwarding and rewinding and automatically begin play, press **PLAY**. The tape stops, the PLAY indicator lights, then the tape begins to play.

Visual Search

Your VCP lets you view a tape at a faster speed than normal playback to help you find a particular section on the tape. Visual search works in either direction.

To use visual search, press **PLAY** to begin normal playback, then press **FAST-F** to search forward or **REWIND** to search backward. The PLAY indicator lights along with the FAST-F or REWIND indicator, and the tape begins to play forward or backward at a high speed. During visual search, there is no sound and the picture quality is not as good as during normal playback.



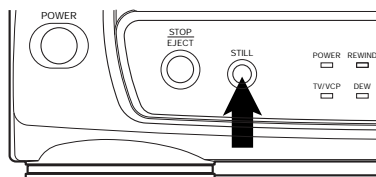
Press **STOP** to stop the tape, or **PLAY** to stop visual search and resume normal playback.

Note:

- Tapes recorded at the EP (extended play) speed provide the best picture during visual search.

FREEZE-FRAME

The VCP lets you stop (“freeze”) the tape to view a single frame. To use freeze-frame, during normal play, press **STILL**. During freeze-frame, there is no sound and the picture quality is not as good as during normal playback.

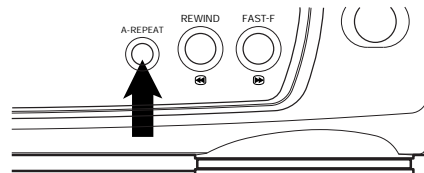


After about 5 minutes, the VCP automatically stops. To stop the tape sooner, press **STOP**. To resume normal playback, press **PLAY**.

Note: Tapes recorded at the EP speed provide the best picture during freeze-frame.

AUTO REPEAT PLAYBACK

You can set the VCP to continuously play, rewind, then repeat a tape. To set the VCP for auto repeat playback, before or during normal playback, press **A-REPEAT** so the A-REPEAT indicator lights.



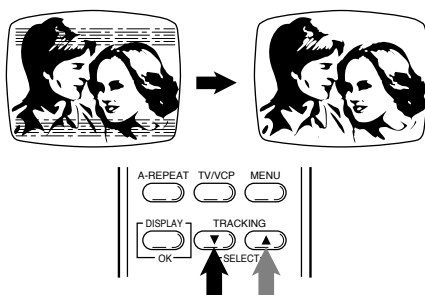
The tape automatically rewinds when it reaches the end, then begins to play again.

To end auto-repeat, press **A-REPEAT** so the A-REPEAT indicator turns off.

ADJUSTING TRACKING

When tape playback begins on your VCP, its built-in tracking control automatically aligns the playback heads to the recorded track.

For poor quality or worn tapes, you might need to further adjust the VCP's tracking. To adjust the picture tracking manually, press and hold down **TRACKING** ▼ or ▲ until the picture improves.



WATCHING BROADCAST TV

To watch broadcast TV if you connected the TV using the VCP's **RF.OUT** jack, simply press **TV/VCP** to turn off the TV/VCP indicator, then tune to the desired station on the TV.

COPYING A VIDEO TAPE

If you connected a VCR to the VCP (see "Connecting a VCR" on Page 9), you can use your VCP to play back a video cassette tape while the VCR records (copies) it.

Follow these steps to copy a video cassette tape.

1. Load a pre-recorded tape into the VCP.

2. Load a blank video cassette, or one you want to record over, into the VCR.

3. If the VCR has an input select switch, set it to the video setting.

Note: If the VCR does not have an input select switch and you later want to record VHF/UHF/cable channels on the VCR, you might need to disconnect the VCP from the VCR's audio/video input jacks.

4. Select the desired recording speed on the VCR.

5. Begin recording on the VCR.

6. Press **PLAY** on the VCP to begin tape playback.

7. To watch the tape while you copy it, turn on the TV or TV monitor. If you connected a TV using the VCR's **RF.OUT** jack, tune the TV to the same channel (3 or 4) to which you set the VCR's **CHANNEL** switch.

Copyright Information: Most material performed in public, such as concerts, plays, and movies, or distributed on pre-recorded video tapes is copyrighted. The unauthorized recording or duplication of copyrighted material is a violation of the copyright laws of most countries and such duplication may result in fines and/or imprisonment. Note, however, that in the United States, it is not a violation of U.S. copyright laws for a consumer to record a broadcast television program for private (in-home) viewing.

TROUBLESHOOTING GUIDE

If your VCP is not performing as it should, these suggestions might help. If you still cannot solve the problem, take the VCP to your local RadioShack store for assistance.

Symptom	Possible Cause	Remedy
No power.	Power is not connected.	Plug the AC adapter into an AC outlet or connect the DC adapter to your vehicle's cigarette-lighter socket.
	Power is turned off.	Press POWER so its red indicator lights.
	Fuse is blown.	See "Replacing the Fuse" on Page 22.
Picture is poor during playback.	The TV is not set to the proper channel.	Tune the TV to the same channel to which the VCP's CHANNEL switch is set.
	The TV's fine tuning is not set correctly.	Fine-tune your TV.
	The VCP is not tracking properly.	Manually adjust tracking.
Noise during playback.	Video heads are dirty.	See "Cleaning the Video Heads" on Page 21.
No picture during playback.	The TV is not tuned to the proper channel.	Tune the TV to the same channel to which the VCP's CHANNEL switch is set.
Interference in the playback picture.	The VCP is not tracking properly.	Manually adjust tracking.

Symptom	Possible Cause	Remedy
Control buttons do not work when the power is on and a video cassette is inserted.	Condensation on video heads/dew protection system is active.	Unplug the VCP for about 2 hours, or until DEW does not turn on when you plug it in, then proceed.
Cannot see broadcast TV programs.	Connections are incorrect.	Recheck the connections.
The remote control does not work.	The batteries in the remote control are weak or dead.	Replace the batteries.

CARE AND MAINTENANCE

Your Optimus Model 40 AC-DC Video Cassette Player is an example of superior design and craftsmanship. The following suggestions will help you care for the VCP so you can enjoy it for years.



Keep the VCP dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the VCP only in normal temperature environments. Temperature extremes can shorten the life of electronic devices damage the remote control's batteries, and distort or melt plastic parts.



Keep the VCP away from dust and dirt, which can cause premature wear of parts.



Handle the VCP gently and carefully. Dropping it can damage circuit boards and cases and can cause the VCP to work improperly.



Use only fresh batteries of the required size and type in the remote control. Batteries can leak chemicals that damage your remote control's electronic parts.



Wipe the VCP with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it.

Modifying or tampering with VCP's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your VCP is not performing as it should, take it to your local RadioShack store for assistance.

CLEANING THE VIDEO HEADS

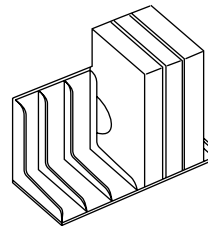
Dirty video heads can cause the VCP's picture to be blurred during playback, even when the video signal is clear. We recommend that you clean the heads only when such problems occur. For proper head cleaning, follow the instructions in a head-cleaning kit, such as Radio Shack Cat. No. 44-1203, or take the VCP to your local RadioShack store for regular servicing.

VIDEO TAPE TIPS

Although a video cassette tape is built for durability, you should handle it with care.

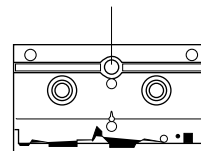
- Keep the video cassette in its protective box when you are not using it.
- Do not store video cassettes in high-temperature, high-humidity locations. Store them in a cool, dry, dust-free environment.

- Store your video cassettes on their ends, not on their sides. This prevents improper setting of the cassette's spools.



- A video cassette's tape can become wound too tightly around the cassette's spools after numerous playings. This can cause the cassette to improperly load and automatically eject when you load it. On most video cassette, there is a brake-release plunger on the bottom-center of the cassette. Use the tip of a pen or pencil to press the plunger. This loosens the tape.

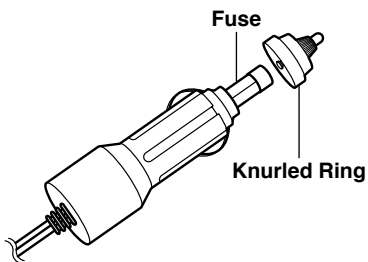
Brake-Release Plunger



REPLACING THE FUSE

If the VCP does not operate when the DC adapter is connected, the fuse inside the adapter might be blown. Follow these steps to replace it.

1. Unscrew the knurled ring at the plug's tip by turning it counterclockwise, then turn over the adapter's cigarette lighter plug so the fuse falls out.
2. If the wires inside the fuse is broken, replace the fuse with one of the same type (1 $\frac{1}{4}$ x $\frac{1}{4}$ -inch 5-amp fuse, such as RadioShack Cat. No. 270-1011). When you screw on the tip, be sure the knurled ring is screwed firmly onto the plug.



THE FCC WANTS YOU TO KNOW

Your VCP might cause TV or radio interference even when it is operating properly. To determine whether your VCP is causing the interference, turn off your VCP. If the interference goes away, your VCP is causing it. Try to eliminate the interference by:

- Moving your VCP away from the TV or radio.
- Connecting your VCP to an outlet that is on a different electrical circuit from the TV or radio.
- Contacting your local RadioShack store for help.

SPECIFICATIONS

GENERAL

Television System.....	NTSC, US TV Standard
Tape Width.....	1/2 Inch
Tape Speed.....	SP 1.31 Inches/Sec LP 0.65 Inches/Sec EP 0.43 Inches/Sec
RF Converter	Built-In VHF Converter
Converter Output.....	Channel 3 or 4
Antenna Input/Output Terminals	F-Type
Video/Audio Output.....	Phono Connector
Power Requirement.....	AC 120 V $\pm 10\%$, 60 Hz $\pm 0.5\%$ DC 12 V (13.2-13.8)
Power Consumption.....	About AC 11 W About DC 11 W
Dimensions (HWD).....	3 ⁷ / ₁₀ X 10 ³ / ₅ X 12 ⁴ / ₅ Inches (94 x 270 x 325 mm)
Weight.....	6 lbs 4 oz. (2.9 Kg)

ELECTRICAL

Video Output Level.....	1 Vp-p
Video Output Impedance	75 ohms
Audio Output Level.....	-7.8 dBm
Video S/N Ratio:	
SP	More than 43 dB
LP/EP	More than 42 dB
Audio S/N Ratio:	
SP	More than 42 dB
LP/EP	More than 40 dB

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

RadioShack Limited Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack companyowned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 761202

We Service What We Sell

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Fort Worth, Texas 76102