

FlexVision®

13" COLOR TV/MONITOR

DC OPERATION WITH REMOTE CONTROL

AVT-1498 OPERATING INSTRUCTIONS

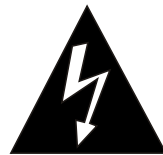
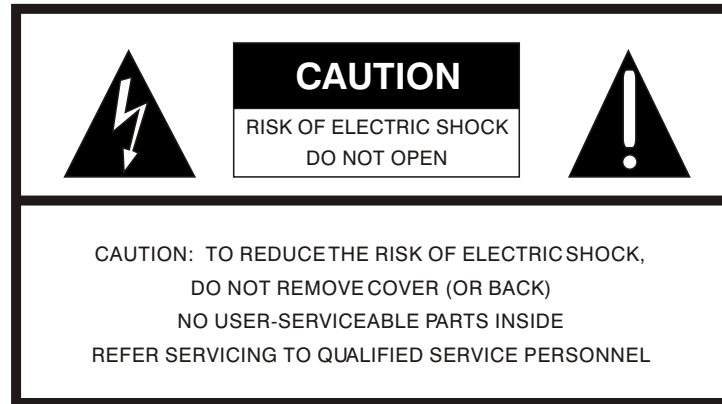


SPECIALLY DESIGNED FOR THE
VAN AND AUTOMOTIVE INDUSTRIES

RECOMMENDED GUIDELINES FOR THE USE OF A VIDEO MONITOR/TV IN A MOTOR VEHICLE

- * A VIDEO MONITOR /TV is designed for rear passenger viewing only. This product may only be installed in the rear seat compartment of the vehicle, out of the driver's view.
- * Installation in any other area of the vehicle, including anywhere within the driver's view, is illegal in most states, provinces and countries and may lead to driver distraction resulting in an accident, injury and or death. If you are unsure of regulations regarding this, please consult your local laws to determine how this applies to you.
- * Users should be aware of the possible noise distraction caused by the use of the product and should carefully monitor the volume so as not to interfere with the driver's attention to surrounding traffic conditions.

EXPLANATION OF GRAPHIC SYMBOLS:



The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT SAFETY INFORMATION

1. Read Instructions — All the safety and operating instruction should be read before the appliance is operated.
2. Retain Instructions — The safety and operating instructions should be retained for future reference.
3. Heed Warnings — All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions — All operating and use instructions should be followed.
5. Cleaning — Unplug this video product from the DC supplying outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Exception; A product that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude in the cleaning description otherwise required.
6. Attachments — Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
7. Water and Moisture — Do not use this video product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories — Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. Ventilation — Slots and openings in the cabinet are provided for ventilation, to ensure reliable operations of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video products on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a book case or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources — This video product should be operated only from the type of power source indicated on the marking label. Video products intended to operate from battery power, or other sources, refer to the operating instructions.
11. Lightning — For added protection for this video product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the DC supplying outlet and disconnect the antenna. This will prevent damage to the video product due to lightning.
12. Overload — Do not overload DC supplying outlets and extension cords as this can result in a risk of fire or electric shock.
13. Object and Liquid Entry — Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video-product.
14. Servicing — Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
15. Damage Requiring Service — Unplug this video product from the DC supplying outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or adapter is damaged.
 - b. If liquid has been spilled, or object have fallen into the video product.

- c. If the video product has been exposed to rain or water.
 - d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - e. If the video product has been dropped or the cabinet has been damaged.
 - f. When the video product exhibits a distinct change in performance—this indicates a need for service.
16. Replacement Parts — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
17. Safety Check — Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

SERVICE SAFETY INFORMATION

1. For your protection, please read these instructions completely and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions.
2. Electrical components that are likely to be replaced in the field and that are critical with respect to the safety are identified on the schematic diagram by the symbol \triangle .
3. Warning: This product includes critical mechanical and electrical parts which are essential for X radiation safety. For continued safety replace critical components only with exact replacement parts given in the parts list. Operating high voltage for this product is 20.16KV at minimum brightness.


POWER REQUIREMENTS

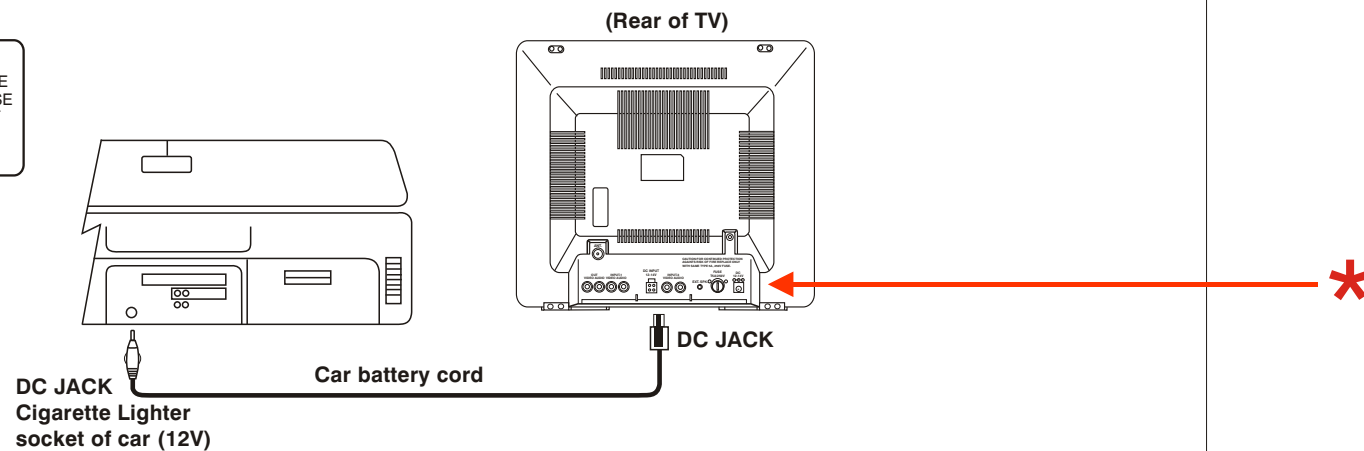
POWER SUPPLY

The AVT-1498 is designed for 12 Volt operation.

CAR BATTERY OPERATION

A cigarette lighter adapter cable is supplied for use in any 12 Volt, negative ground battery vehicle. Simply insert the DC plug on the end of the cable into the DC POWER JACK (10) on the back of the TV set, and the other end of the cable into the cigarette lighter receptacle of the vehicle. The television is now ready for operation.

CAUTION:
MEASURE DC SOURCE
POLARITY BEFORE USE
OTHERWISE, THE SET
MAY BE DAMAGED.
GND 

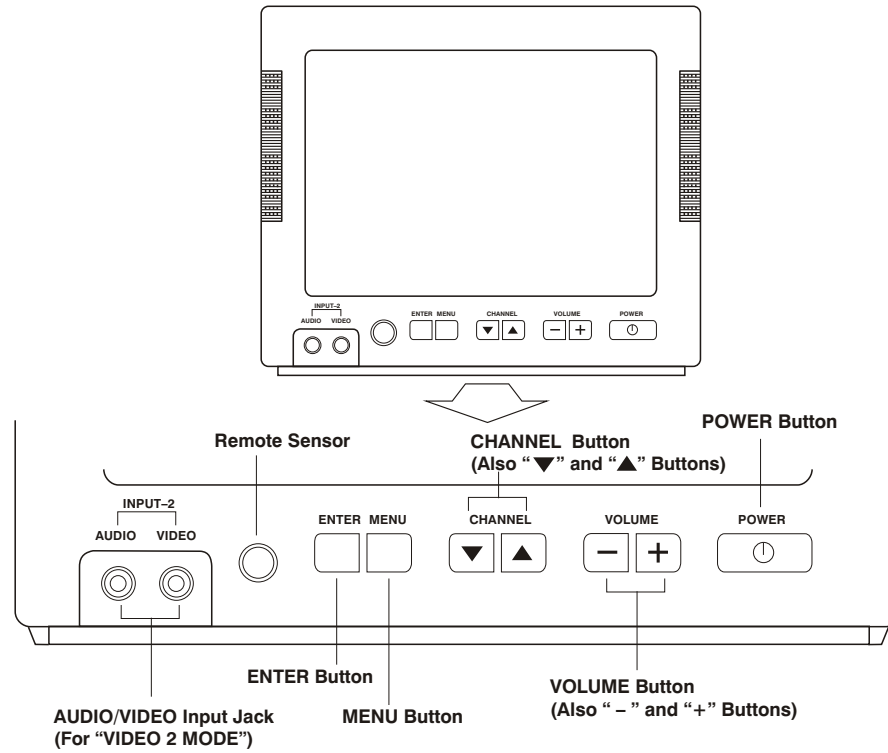


Remove plug from cigarette lighter receptacle when unit is not in use



REVISED DATE : 07/04/03
- DRAWING CHANGE

1. Front Panel Controls



. **POWER Button**

- Press once to turn on TV.
- Press again to turn off TV.

. **VOLUME Buttons**

- Press VOLUME “+” to increase volume, or press VOLUME “-” to decrease volume.
- The “+” and “-” buttons are also used to adjust the picture. When the PICTURE display disappears from the screen. These buttons once again become the volume adjustment controls.

. **CHANNEL Buttons**

- Press CHANNEL ▲ to see the next higher channel in memory.
- Press CHANNEL ▼ to see the next lower channel in memory.
- The ▲ and ▼ buttons are also used to select desired function on the menu.

. **MENU Button**

- Press the MENU button, the MENU display appears.
- Press ▲ or ▼ to select desired function, then press ENTER button to end the choice.
- Details about using each function are on page 11.

. **ENTER Button**

- To end the choice on the first menu or the second menu.
- Details about using each function are on page 11.

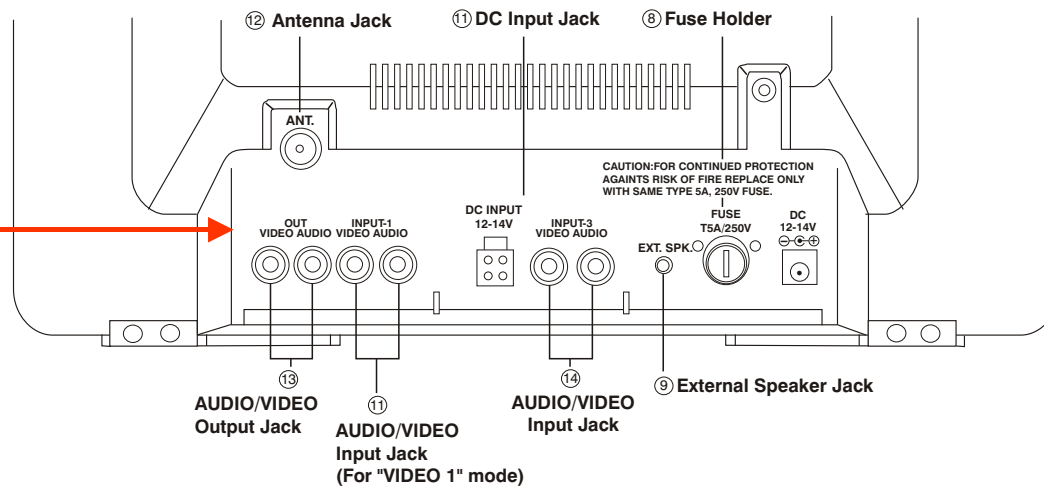
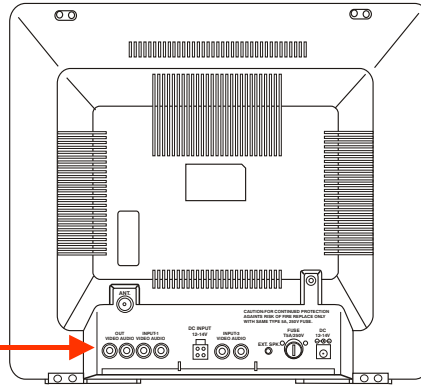
. **Remote Sensor**

- Receives commands from remote control.
- When using the remote control, point it toward this sensor.

. **AUDIO/VIDEO Input Jack**

- Use a audio/video cable to connect this jack to the audio/video output from a video camera, VCR, video game, etc.
- These jacks on the front can only be used for direct audio and video input on the “VIDEO 2” mode.

2. Rear Panel Controls



REVISED DATE : 07/04/03
- DRAWING CHANGE

- ⑧. **FUSE Holder**
 - There is a safety fuse in the holder.
 - The fuse is a 5-amp, 125/250V (slow blow type).
- ⑨. **External Speaker Jack**
 - You can plug an optional Speaker into this jack for private listening.
 - When the plug of an external speaker is attached, the sound will come through the external speaker instead of the TV speaker.
- ⑩. **DC Input Jack**
 - For car use, the TV is designed for negative (-) ground 12V DC operation only.
 - When unit is not in use, remove the car battery cord from the cigarette lighter socket.
- ⑪. **AUDIO/VIDEO Input Jack**
 - Use an audio/video cable to connect this jack to the audio/video output from a video camera, VCR, video game, etc.
 - These jacks on the rear can be used for direct audio and video input on the "VIDEO 1" mode.
- ⑫. **ANTENNA Jack**
 - Connect the antenna cable to the VHF-UHF antenna terminal.
- ⑬. **AUDIO/VIDEO Output Jack**
 - For connection to a monitor TV, audio/video system or VCR.
- * → ⑭. **AUDIO/VIDEO Input Jack**
 - Use an audio/video cable to connect this jack to the audio/video output from a video camera, VCR, video game and etc.
 - These jacks on the rear can be used for direct audio and video input on the "VIDEO 3" mode.



REVISED DATE : 07/04/03

- ADD IN ITEM # 14 (AUDIO/VIDEO INPUT JACK)

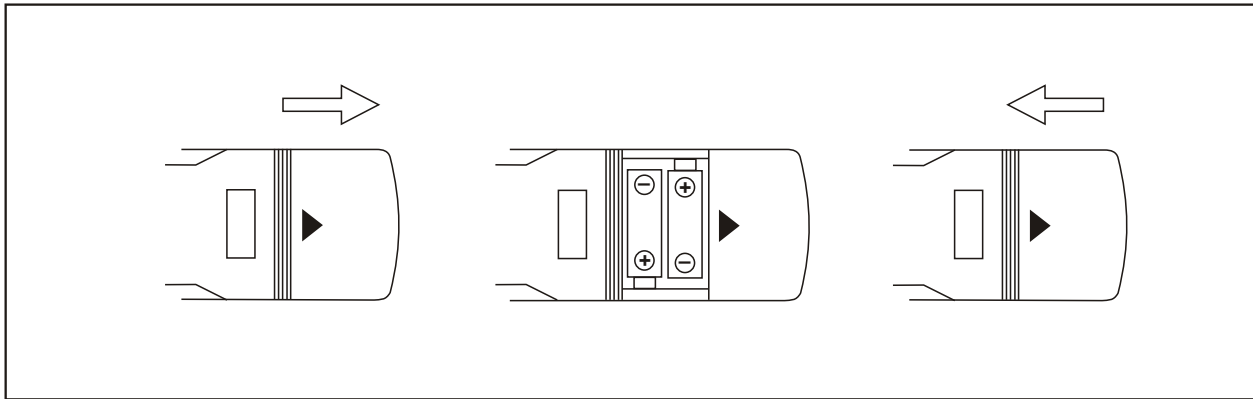
DESCRIPTION OF PARENTAL CONTROL SETTINGS

1. The TV Guidelines set the standard for the TV programs, excluding sports and news. Use the ▼ CH ▲ buttons to select, – VOL + buttons to adjust. You can set individual settings with – VOL + buttons.
2. The Movie ratings set the standard for movie, video, and other media excluding TV programs. Use the ▼ CH ▲ buttons to select, – VOL + buttons to adjust.
3. The no rating item toggles between “Unblock” and “Block”. This item determines whether the programs, which are not rated by “Movie Ratings” and “TV Guidelines”, will be blocked or not. Use VOL buttons to change the settings.
4. The password item will let you change password by entering the V-Chip Control item. The initial password “1111” should be changed. Use – VOL + buttons to enter the password input display, and use the number buttons (0-9) to enter a new 4-digit password. After you have entered the new password, a confirmation display will appear. Punch in the password again.

BATTERY INSTALLATION

Before attempting to operate your Remote Control, install batteries as described below.

1. Turn the Remote Control face down. Press down on the ridged area of the battery cover and slide it off.
2. Install two "AAA" batteries as shown. Make sure that proper polarity (+ or -) is observed.
3. Slide the cover back until it clicks.



REMOTE CONTROL OPERATION

1. TV PARTS:

1. TV POWER

Press this button to turn on the set.

Press the button again to turn the set off.

2. Direct Access (0-9, 1--) Number Buttons

Use these buttons to select a channel.

The channel number chosen will be displayed on the screen for about four seconds.

To select channels 0-99, press two number buttons.

For example, to select channel 8, press 0, 8.

To select channels above 100, press the 1-- button, then the number buttons for the last two digits of the channel.

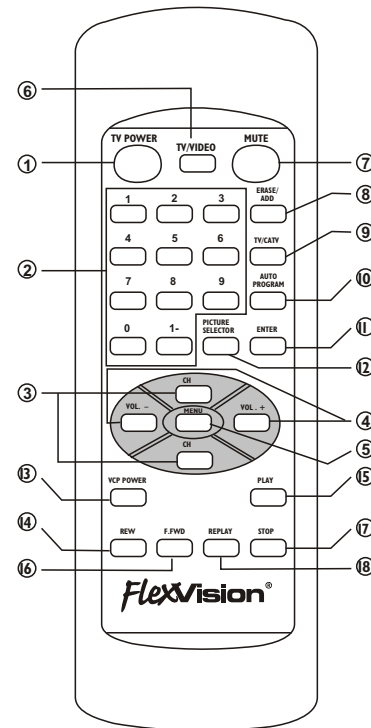
For example, to select channel 115, press 1--, 1, 5.

3. CHANNEL ▲/▼ Buttons

Use these buttons to advance to the next higher (▲) or lower (▼) channel. (also used to select desired function on the menu).

4. Volume +/- Buttons

Use these buttons to raise (+) or lower (-) the TV sound level (also used to make picture adjustments in picture selector mode).



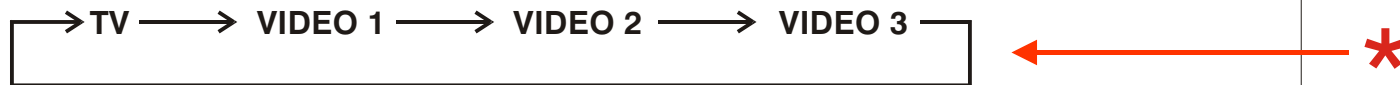
5. **MENU Button**

Press the MENU button. The MENU display appears.

Use ▲ and ▼ buttons to select desired function, then press ENTER button to end the choice.

6. **TV/VIDEO Button**

Press this button to access the AUDIO/VIDEO input jacks, on the front and rear of the TV. As the button is pressed, the on-screen display will cycle as follows:



7. **MUTE Button**

Press this button to turn the TV sound off. Press again to restore sound to the previously set level.

MUTE may also be released by pressing the VOLUME +/- buttons.

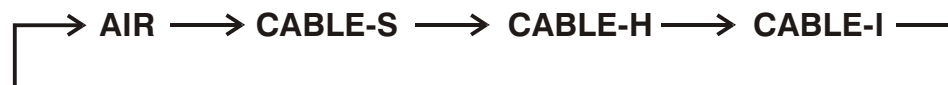
8. **ERASE/ADD Button**

This button is used to manually add or erase any channel that is stored in the CHANNEL ▲/▼ memory. The stored channel numbers are displayed in GREEN on the screen and the non-stored channel numbers are in RED.

9. **TV/CATV Button**

Use this button to select regular 69-channel broadcast TV or 125-channel cable TV (standard cable, HRC cable, or IRC cable).

As the button is pressed, the on-screen display will cycle as follows:



10. **AUTO PROGRAM Button**

Select the regular channel broadcast TV or CABLE TV for AUTO PROGRAM. When the AUTO PROGRAM button is pressed, the TV screen will show an IMPORTANT information screen, all the channel numbers for TV or CABLE TV will be scanned. The broadcasting signals will be detected and automatically stored.

IMPORTANT
Reception on any TV in a mobile environment may be affected by:
Vehicle movement, weather, distance from TV station, etc..
These factors may cause the picture to roll, be snowy, and cause some color loss.
For the best picture quality, a VCP is recommended.

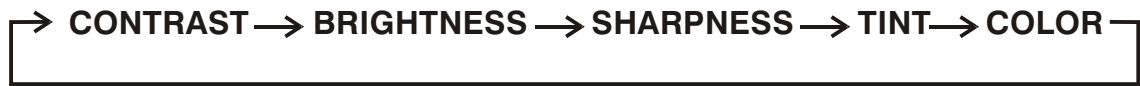
SCANNING AIR CH : 2-69 (for TV)
or
SCANNING CABLE CH : 1-125 (for CABLE TV)

11. **ENTER Button**

Use this button to end the choice on the menu.
Details about using each function are on page 11.

12. **PICTURE SELECT Button**

Each time this button is pressed the on-screen picture adjustment display cycles through "adjustment screens" as follows:



Then use the VOLUME +/- buttons to raise (+) or lower (-) the level.
The display will automatically turn off if no adjustments are made within four seconds, or if any other button is pressed.

2. VCP PARTS:

13. **VCP POWER Button**

This button is used to turn the unit on and off.

14. **"REW" REWIND Button**

If this button is pushed while the tape is stopped, the tape will rewind. If this button is pushed while the tape is playing, the VCP will go into rewind search mode. For more information on search feature of the VCP, consult VCP owner's manual.

15. **PLAY Button**

Press this button to activate play mode while a tape is loaded into the VCP. This button may also be used to dis-engage search and pause modes. For more information, consult the VCP owner's manual.

16. **"F. FWD" FAST FORWARD Button**

If this button is pushed while the tape is stopped, tape will fast forward. If this button is pushed while the tape is playing, the VCP will go into fast forward search mode. For more information on search feature of the VCP, consult the VCP owner's manual.

17. **STOP Button**

Press this button to stop the tape.

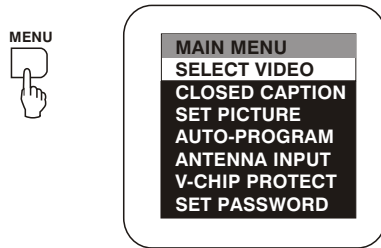
18. **REPLAY Button**

During playback, press this button to rewind the tape to the beginning and to begin PLAY mode from there.

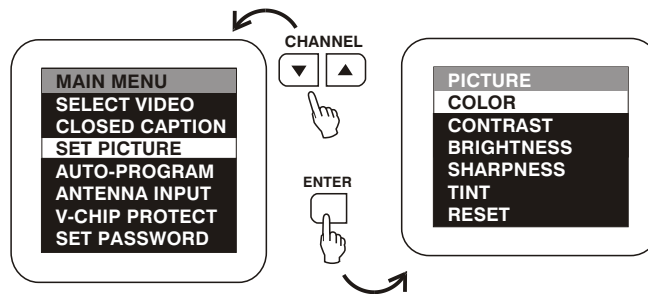
ADJUSTING THE PICTURE

When watching TV programs, the quality of the picture can be adjusted to suit your taste.

1. Press **MENU**. The main menu appears.

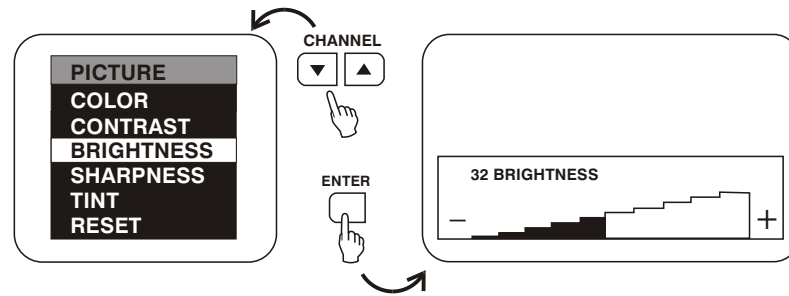


2. Press either **CHANNEL** \triangle or ∇ to select the function. Make sure the highlight bar is **PICTURE** and then press **ENTER**.



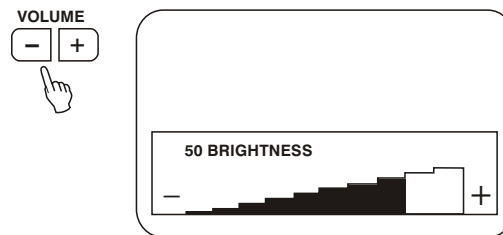
3. Select the item to adjust. For example:

To adjust brightness, press CHANNEL ▾ or ▲ to select BRIGHTNESS and press ENTER.



4. Adjust the level:

Press VOLUME “-” or “+” to adjust the level.



5. To adjust other items, repeat all above.

Notes:

- The menu or display disappears from the screen if you do not press – or + within a few seconds. Whenever a menu or display disappears from the screen, the – and + buttons on the front of the TV become the volume adjustment buttons.
- If you want to adjust the picture only. You can use the remote control, simply press the PICTURE SELECT. Details are on page 9.

Description of adjustment items

Item	Adjustment	
	Press VOLUME – to	Press VOLUME + to
CONTRAST	Decrease picture contrast for soft color	Increase picture contrast for vivid color
BRIGHTNESS	Darken the picture	Brighten the picture
SHARPNESS	Decrease picture sharpness	Increase picture sharpness
TINT	Make skin tones become greenish	Make skin tones become purplish
COLOR	Decrease color intensity	Increase color intensity

To restore the factory settings

Select the item of PICTURE while the main menu is displayed.

Then select the item of RESET. All the picture functions (CONTRAST, BRIGHTNESS, SHARPNESS, TINT, COLOR) will go back to the factory settings.

SETTING CLOSED CAPTIONING

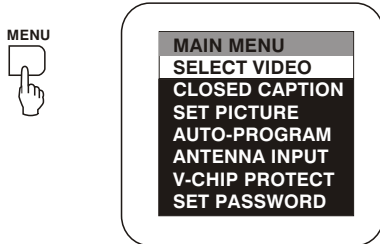
CLOSED CAPTIONING

Closed captioning lets you display the audio portion of a program as text on the TV screen. This is useful to the hearing impaired or anyone who wants to watch a program without the sound.

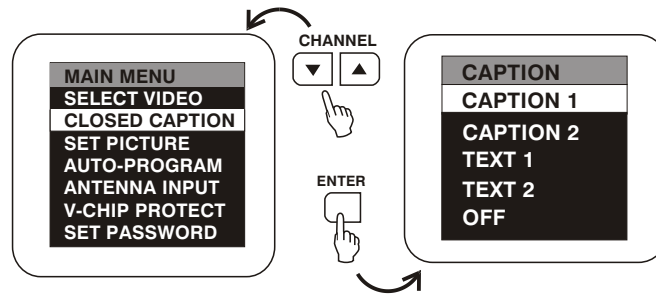
There are two types of closed captioning available: C1 (Caption 1) and C2 (Caption 2). C1 display the full translation of the primary language in your area. C2 may be used as a source for secondary languages, simplified English, or other translations transmitted in your area.

Closed captioning is not available on all channels or at all times. Only specific programs are encoded with closed captioning information.

1. **Press MENU. This main menu appears.**



2. Press either CHANNEL ▼ or ▲ to select the function.
Make sure the highlight bar is CAPTION and then press ENTER.



3. Press either CHANNEL ▼ or ▲ to select the item and then press ENTER.

CABLE TV (CATV) OPERATION

In addition to normal broadcast reception of VHF and UHF channels, if you are a cable TV subscriber, your new TV is capable of receiving many unscrambled cable channels without the use of a converter box.

When set to broadcast TV it receives channels 2 ~ 69. When set to one of the CATV modes (STD, HRC, or IRC) it receives channels 1 ~ 125 (see chart on the following).

CABLE TV TUNING PROCEDURE

1. Connect the CATV cable directly to the TV antenna terminal. Your local cable system operator's converter box should not be required unless certain premium channels are scrambled.
2. Select the appropriate CATV setting with the TV/CATV button on the remote control.
3. You can now select CATV programs by using the CHANNEL ▲/▼ buttons or the number buttons on the remote control. The chart below lists the total channel and cable count.

Channels	Off Air	Cable
Low VHF (Channel 01)	–	1
VHF (Channels 2 ~ 13)*	12*	12*
UHF (Channels 14 ~ 69)*	56	–
Low Midband A-5 ~ A-1 (Channels 95 ~ 99)	–	5
Midband (Channels 14 ~ 22 or A ~ I)	–	9
Superband (Channels 23 ~ 36 or J ~ W)	–	14
Ultraband (37 ~ 94 and 100 ~ 125 or w+29 ~ w+48)	–	84
Total*	68	125

PARENTAL CONTROL SETTINGS

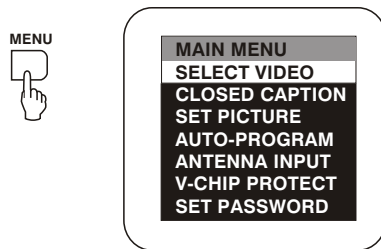
This item helps parents set the standard for the programs their children are going to watch.

1. With the TV on, press the MENU button until “Special” menu will appear.
2. Use the ▼ CH ▲ buttons to select the “V-Chip Control” item.
3. Use the –VOL + buttons to enter into “V-Chip Control” settings.
4. After using the number buttons (0-9) to enter your password, the “V-Chip Control” menu will be displayed. If this is the first time you are using your “V-Chip Control” menu, your default password is “1111”.
5. Select the V-Chip Control feature. Use the –VOL + buttons to toggle “On” or “Off”.
6. Use the ▼ CH ▲ buttons to select the V-Chip Control settings you wish to adjust. Descriptions of the V-Chip Control settings are on the next page.
7. Use the –VOL + buttons to adjust the V-Chip Control setting selected.
8. Use the MENU button to return to the menu on the next level up.

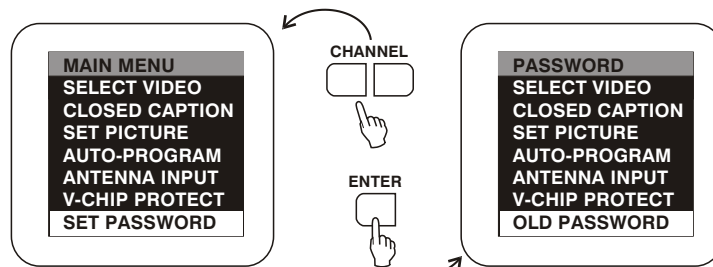
SETTING THE V-CHIP

An age limitation can be set to forbid children to see and hear violent scenes or pictures for adults, etc. The TV/VCR responds to “TV RATING” and “MOVIE RATING”. To use the V-CHIP function, you must register a password.

1. Press MENU. This main menu appears.



1. Press either CHANNEL \blacktriangledown or \blacktriangle to select the function.
Make sure the highlight bar is SET PASSWORD and then press ENTER.



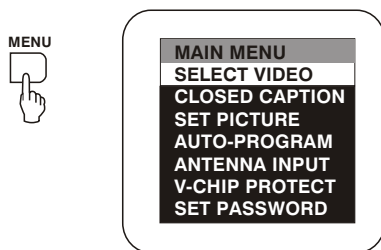
3. Enter the OLD password (4 digits) using the Direct channel selection buttons (0-9).
4. Enter the NEW password (4 digits) using the Direct channel selection buttons (0-9).

NOTES :

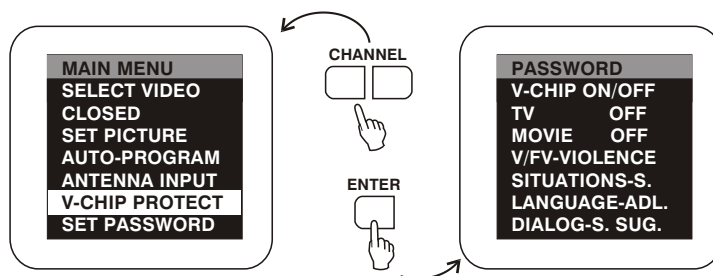
- The initial PASSWORD is “1111”.
- If you forget the password, you cannot set the V-CHIP.
- To avoid forgetting the password, write it down and Keep in a Safe place.

TO SET THE V-CHIP

1. Press MENU. The main menu appears.



3. Press either CHANNEL ▼ or ▲ to select the function.
Make sure the highlight bar is V-CHIP PROTECT and then press ENTER.



3. Enter the password (4 digits) using the Direct channel. Selection buttons (0-9).
“X” appears instead of the number.
Note : The initial password is “1111”.
4. In the V-CHIP PROTECT menu. Press either CHANNEL ▼ or ▲ to select the function.
5. Press either VOLUME + or VOLUME – to select the desired setting.

6. TV RATINGS CHART:

OFF : TV RATING is not set
TV-Y : ALL children
TV-Y7 : 7 years old and above
TV-G : General Audience

TV-PG : Parental guidance
TV-14 : 14 years old and above
TV-MA : 17 years old and above

- When you select TV-Y7, TV-PG, TV-14 or TV-MA, press either CHANNEL ▼ or ▲ to select the contained rating.

V/FV-VIOLENCE
SITUATIONS-S.
LANGUAGE-ADL.
DIALOG-S SUG.

- Press VOLUME + or – to block (RED) and unblock (GREEN).
NOTE : The V-CHIP function is activated only on programs and tapes that the rating signal.

7. MOVIE RATINGS CHART :

OFF : MOVIE RATING is not set
G : ALL ages
PG : Parental guidance
PG-13 : Parental guidance, less than 13 years old
R : Under 17 years old, Parental guidance suggested
NC-17 : 17 years old and above
X : Adult only
N/R : Movie has not been rated or ratings do not apply

- Press VOLUME + or – to select the contained rating.

TECHNICAL INFORMATION

The following information will address TV antennas and attempt to give some insight into how TV antennas and their application affect television performance.

UHF/VHF FREQUENCIES

VHF (CH 2 - 13) and UHF (CH 14 - 69) signals are nearly identical with one critical difference: "wavelength." VHF wavelengths are longer than UHF wavelengths. Therefore, the best antenna is one that closely matches the wavelength of the signal you are trying to receive.

Also keep in mind that VHF wavelengths are significantly reduced when obscured.

ANTENNAS

Following are a few points to consider in regards to installing and choosing an antenna:

Metallic Paint

Manufacturers of boomerang antennas warn users that painting antennas with metallic paint will hurt performance. This is also true for foil antennas used in fiberglass high tops that are painted.

Outside Metal

When TV antennas are used inside low top van conversions, the TV signal can be obstructed by the outside metal of the vehicle. This will diminish UHF performance and may eliminate VHF reception altogether. However, depending on antenna's location and the direction of the vehicle, some VHF signal may be received.

Loss of Signal

Loss of signal is another factor which should be considered. Every connection between the antenna and the TV will reduce signal. Coax connectors improperly attached to antenna cables will cause even more loss. Partially grounded roof rack antennas will also effect reception, especially VHF.

Testing done on antenna systems has shown that as much as a 10% loss of signal can be measured across every connection. Multiplying this figure by the number of connections, (antenna to VCP, to Nintendo, to TV) equates to a significant reduction in signal. Splitters, A/B switches and even the type of coax cable used will effect antenna performance.

Our televisions are also designed to be monitors as well. Some of our customers are taking advantage of this feature by running RCA patch cords from the VCP to the TV audio/video inputs. This reduces the amount of connections required and will improve reception.

The information in this bulletin is not intended to promote or discourage the use of any one antenna, but to caution. Approval of antenna performance and application, should not be given without adequate testing in both VHF and UHF areas.

TECHNICAL INFORMATION

The following information will discuss DC power sources and how they affect 12 volt DC Audio and Video products.

DC (DIRECT CURRENT) POWER

A large number of our products are designed for 12 volt DC applications. The power is supplied by a variety of sources i.e., the battery, converters, ignition systems and solar power.

General Specifications

Our general specification for the voltage range of operation is 10 to 16 volts DC. TV's and VCP's (video cassette players) require slightly more than 10 volts to function properly. Normally this 10.5 to 11 voltage requirement does not create a problem, but keep in mind the following points:

Voltage

The voltage of a fully charged battery (engine not running) is approximately 12.5 VDC. Once a load (items being powered represent the "load") is applied, the voltage will drop. How much the voltage is reduced will depend on the following:

1. Current draw (amount of amperage). The higher the draw the greater the voltage will drop.
2. The size and length of the conductor (wire) supplying power.

Amperage

A TV will draw considerably more amperage than a VCP. For instance, a 9" TV will draw approximately 3.0 amps compared to a VCP that draws 1 amp while the tapes are being loaded or ejected.

Checking the voltage of a TV while it is playing shows an approximate 1 volt drop, (11.5 VDC). The voltage at the VCP can be another .5 VDC (11 VDC) less than the TV.

In conclusion, operating these video products without the engine running will drain the battery to the point where these products will perform unacceptably in a short period of time.

Converters

Many RV OEM's incorporate converters as a source of 12 VDC when connected to shore power (110-120 VAC). Some models put out a very clean DC supply where others may have a considerable amount of AC ripple under maximum load.

This AC ripple is filtered by the coach battery when connected into the circuit, but when the battery is removed or disconnected the amount of AC ripple can create major problems for audio and video products. Noise may result and often times in line fuses fail.

Ignition Systems

Unwanted noise generated from ignition systems used to be a big problem. However, with more sophisticated filtering circuits designated into audio/video products, these problems are not as wide spread.

Changes in wire harnessing also has contributed to the decline of application problems. One rule of thumb is to use the same ground point for all related products. This will greatly reduce the potential for alternator whine.

TROUBLESHOOTING

SYMPTOM	CAUSE	POSSIBLE SOLUTION
No Power	<p>No 12 volt DC power to the set</p> <p>Be sure TV switch in overhead switch panel is on</p>	<p>*Check circuit fuse at source of power (see vehicle owners manual)</p>
Indicator light on front of set is not on	<p>Power cord is not plugged into DC outlet</p> <p>DC power plug is not inserted into the jack on the TV</p>	<p>*Check that power cord is plugged into jack of TV</p> <p>*Check in-line fuse of power cord to set either on red wire or in lighter plug</p> <p>*Check fuse in TV (20 x 5 mm 5 amp)</p> <p>*Check (unplug power cord) and test for 12 VDC positive and ground at coaxial DC plug</p> <p>*Turn on overhead switch panel (if applicable) may control power to TV</p>

SYMPTOM	CAUSE	POSSIBLE SOLUTION
Set will not turn on by remote, indicator dimly lit	TV's remote sensor blocked Remote control inoperative Remote not in direct line with TV's infrared sensor Batteries in remote Low voltage, low battery power	*Depress power button on front of TV *Start vehicle engine *Check for weak connection *Replace Batteries *Replace Batteries
Discolored areas of picture (purple)	Magnetic fields NOTE : If degauss feature will not correct or reoccurs, demagnetizing metal near TV may be necessary (call van converters service department)	Turn TV on for one minute, turn TV off for 10 seconds then turn back on. TV will " degauss " and correct discoloration

SYMPTOM	CAUSE	POSSIBLE SOLUTION
Picture/No Sound	<ul style="list-style-type: none"> *External Speaker switch in off position *TV muted *External speaker circuit broken *Volume level at minimum 	<ul style="list-style-type: none"> *Switch exterior speaker to on position *Switch mute off with remote *Unplug external speaker plug-sound should come through front speaker *Raise volume with remote or volume button on front of set behind control door
No Picture, sound or local reception	<ul style="list-style-type: none"> *TV in video mode *TV in one of three STD-HRC-IRC cable modes *No connection to antenna 	<ul style="list-style-type: none"> *Switch to TV mode with TV/Video on remote or TV/AV button on front of set behind door Switch to TV with TV/CATV button on remote. On-screen will display mode
Poor or weak reception	<ul style="list-style-type: none"> *Vehicle is in motion 	<ul style="list-style-type: none"> *Adequate reception often cannot be maintained in a moving vehicle

SYMPTOM	CAUSE	POSSIBLE SOLUTION
Poor or weak reception	<ul style="list-style-type: none"> *VCP power on (if applicable) *Connections between antenna and TV 	<ul style="list-style-type: none"> *Turn off VCP *Bad or poor coax connections; consult converter or manufacturer for antenna routing
Poor or weak reception	<ul style="list-style-type: none"> *Antenna not connected to TV *Antenna grounded to vehicle. Elements of antenna must be isolated chassis ground *Bad antenna 	<ul style="list-style-type: none"> *Check connection on rear of set. Antenna may be routed through VCP (check antenna connection to VCP) *Check antenna (mainly rack type) or grounding to vehicles chassis, will require OHM meter *Connect good antenna

ACCESSORIES LIST

DESCRIPTION	PART NUMBER
AVT-1498 13" Color Television with remote (12 Volt)	08001480
AVT-988 9" Color Television with remote (12 Volt)	08000988
AVT-597 5" Color Television with remote (12 Volt)	08000597
AVT-975 9" Color Television with remote (12 Volt)	08000975
AVT-1475 13" Color Television with remote (12 Volt)	08001475
AVP-6750 Video Cassette Player (12 Volt)	09006750
BPA-501-12 - 4 amp Adapter for use with AVT-975/AVT-988 9" and AVT-1498/AVT-1475 13" Televisions	0891412
AC2A - 2 amp Adapter for use with AVT-597 5" TV and AVP-6750 Video Cassette Player	0891436
Unified Remote Control	0893225
VAC-21 – 12 Volt Corded Vacuum	4185998
VAC-32 – 12 Volt Rechargeable Vacuum	4110032
AVF-1 Rechargeable Flashlight	4130001
HP-175 Headphones with Pivoting Ear Cup	4120175
HP-275 Headphones with Volume Control on Cord	4120275
HP-375 Studio Quality Headphones	4120375

Unlike household electronics, all of our products have been specifically designed and tested for the mobile environment and are only available through ASA. To order any of these products please call **Audiovox Specialized Applications at 219-264-3135 or 800-688-3135**

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