



**AUDIOVOX®**  
ELECTRONICS CORP.

# **Model PAV2000DTV MOBILE THEATER**

**AM/FM, with DVD/CD Changer Controller  
and Motorized 7" Wide TFT LCD Display**



## **Owner's and Installation Guide**

## **INTRODUCTION**

Thank you for choosing the PAV2000DTV MOBILE THEATER AM/FM, with DVD/CD Changer Controller and Motorized 7" Wide TFT LCD Display. This unit provides state of the art electronics and is constructed to provide years of reliable, trouble-free service. Please read all documentation prior to using this product. The documentation will assist you in obtaining the best equipment performance. Save this manual for later use.

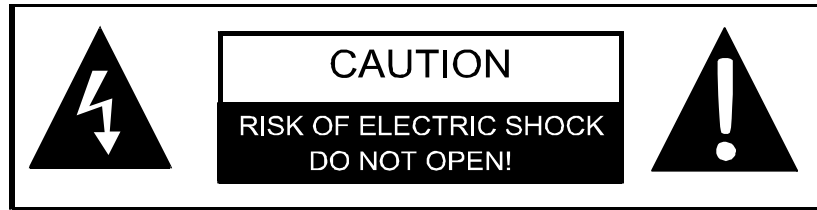
### **IMPORTANT NOTICE**

For your safety, the driver should not watch the TV or operate the controls while driving. Please note watching and/or operating the TV while driving is prohibited by law in some countries. An LCD Panel and/or Video Monitor may be installed in a motor vehicle and visible to the driver if the LCD Panel or Video Monitor is used for vehicle information, system control, rear or side observation or navigation. If the LCD Panel or Video Monitor is used for television reception, Video or DVD playback, then the LCD Panel or Video Monitor must be installed so that these features will only function when the vehicle is in "park" or when the vehicle's parking brake is applied. Always keep the volume to a level at which outside sounds can be heard.

### **SAFETY PRECAUTION**

For safety reasons, when changing video media, it is recommended that the vehicle is not in motion, and that you do not allow children to unfasten seat-belts to change video media or make any adjustments to the system. Enjoy your entertainment system but always remember-safety of all passengers remains the number one priority.

## CAUTIONS AND WARNINGS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "Dangerous Voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

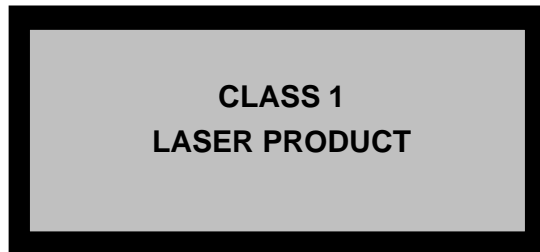


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

### CLASS 1

### LASER PRODUCT



The label above is attached to the chassis / case and notes that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

# **IMPORTANT SAFETY INSTRUCTIONS**

## **Safety Precautions**

### **1. Caution**

Do not spill or spray liquid of any kind on or in the system (this may result in a fire or electric shock). Insert the unit all the way in until it is fully locked in place. Otherwise, it may fall out of place when jolted. To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit. To prevent damage to the motorized mechanism do not hold the LCD display panel while it is opening or closing. Do not drop the PAV2000DTV or subject it to strong shocks. Doing so could damage the delicate parts contained within the unit. Use the hardware supplied with the PAV2000DTV for the installation. The use of incorrect hardware can damage the unit.

### **2. Warning**

During installation of the PAV2000DTV, make sure to use automotive-grade wires or other wires with a 0.75mm<sup>2</sup> (AWG18) or more when extending the ignition, battery, or ground wire to prevent wire deterioration and damage to the wire coating. Ensure that the unit is grounded to a negative 12VDC power supply.

To reduce the risk of electric shock, do not perform any servicing other than that contained within the operating instructions. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel. Do not install the PAV2000DTV in an area that is exposed to direct sunlight, excessive heat humidity and/or dusty conditions. Do not install the PAV2000DTV where it may be exposed to water splashing or the possibility of rain. Only replace fuses with fuses of the same ampere rating. Failure to do so may result in damage to the unit, use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction. In order to prevent a short circuit when replacing a fuse, first disconnect the wiring harness.

Do not use 3-inch CD's. Do not use adapters to load 3-inch CDs in the CD slot. It is possible for the 3-inch CD to separate from its adapter and damage the unit.

### **5. Cleaning DVD Player**

When cleaning, make sure the system is unplugged from the power source. Do not use liquid cleaners or aerosol cleaners. Use a soft cloth lightly dampened with water for cleaning the exterior of the system only.

### **6. Disc**

It is not recommended to insert 3" CD's with adapters into the PAV2000DTV. The CD adapter may separate from the CD and damage the unit. Do not use irregularly shaped discs such as heart or star-shaped discs as they may cause the DVD Player to malfunction. Do not stick paper, tape or glue on the disc. Do not expose the disc to direct sunlight or heat sources. Do not touch the surface of disc, handle the disc by its

edge. Always wipe the disc from the center out with a soft cleaning cloth when cleaning the disc. Remove the disc from the DVD Player and store it in its case after playing.

**NOTE:** Some software producers may intentionally fix some playback operations of discs. Since this DVD Player plays discs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the discs.

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## PAV2000DTV SYSTEM SPECIFICATIONS

### FM Tuner Specifications

Frequency Range	87.50MHz to 108.0MHz
Usable Sensitivity	9 dBf
50dB Quieting Sensitivity	15dBf
Alternate Channel Selectivity	70dB
Stereo Separation (1kHz)	30dB

### AM Tuner Specifications

Frequency Range	530kHz to 1710kHz
Usable Sensitivity	25 dBuV

### TV Tuner Specifications

Receiving Channel	VHF LOW (S3-NZ1)
VHF HIGH	(E12 – E5) UHF (E69 – E21)

### DVD Player Specifications

System	Digital Versatile Disc System with CDDA capable
Usable discs	DVD video disc, Compact DISC Frequency Response: 20Hz to 20 kHz ( $\pm$ 3dB) 20Hz to 20 kHz (CD) ( $\pm$ 3dB)
Signal to Noise Ratio	90 dB (1kHz) IHF-A
Dynamic Range	90 dB (1kHz)
Distortion	0.05 %

### Audio Amplifier Specifications

Rated power output	18W x 4 plus 7W x2 (20 Hz to 20 kHz, 1%, 4 $\Omega$ )
Maximum power output	200W (50W x4) plus 50W (25W x 2)
Speaker impedance	4 $\Omega$ (4 to 8 $\Omega$ )

### Input Specifications

Audio input	780 $\pm$ 50mVrms (input impedance 75 $\Omega$ )
Video input	1.0 $\pm$ 0.2 Vp-p (input impedance 75 $\Omega$ )

### Video Output Specifications

Video output	1.0 $\pm$ 0.2 Vpp (output impedance 75 $\Omega$ )
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## LCD Monitor Specifications

Screen Size	7-inch wide type 166mm with x 100mm Height
Display method	Transmission type TN liquid crystal display
Drive method	TFT (thin-film transistor) active matrix driving
Pixels	336,960 (1440 x 234)

## General Specifications

Power source voltage	14.4VDC 10.8 to 15.6V allowable
Ground	Negative
Current consumption	3.0A (1W)
Auto Antenna Rated Current	500mA less
Dimensions of the Main Unit	178mm width x 50mm Height x 159.8mm Depth
Dimensions of the Tuner Amp Unit	166mm Width x 38mm Height x 266mm Depth
Weight of the Main Unit	2kg
Weight of the Tuner Amp Unit	1kg
Dimensions of the Remote Control Unit	50.8mm Width x 11.4mm Height x 160mm Depth
Weight of the Remote Control Unit	70g

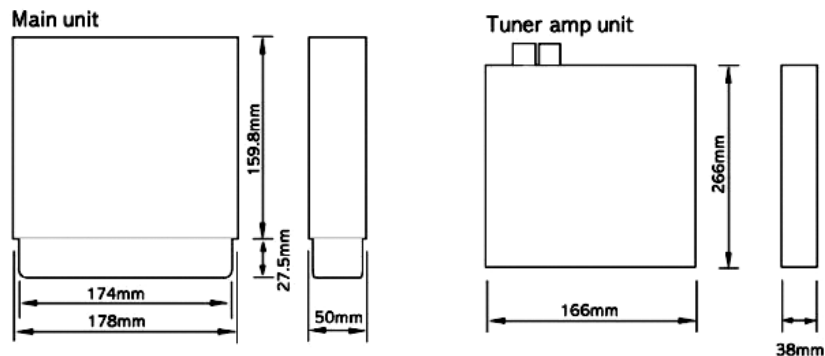
### NOTE

Specifications and design are subject to be changed without notice for further improvement.

### NOTE

If you experience problems during installation, consult your Audiovox dealer.

If the unit fails to operate properly, press the Reset button. The unit returns to factory setting when the Reset button is pressed. If the unit still fails to operate properly after the Reset button has been pressed, contact your local Audiovox dealer for assistance.



# INSTALLATION OF THE PAV2000DTV SYSTEM

## Installation Kit(s) Contents

### 1. Main Control Unit Accessory Kit (P/N 170-0004)

1x	DIN Sleeve	(P/N 108-3812)
1x	Fuse/Filter Harness	(P/N 112-3425)
1x	Power/Speaker Harness	(P/N 112-3426)
1x	Remote Control	(P/N 136-3712)
1x	Video Cables	(P/N 112-3427)
1x	Antenna Extension Cable	(P/N 118-1132)
1x	Data Control Harness	(P/N 112-3428)

### 2. Mounting / Bracket Hardware Kit (P/N 150-1562)

2x	Mounting Bracket	(P/N 108-3814)
4x	#8-32x1/4" Phil.Screw, Cap Point	(P/N 100-1473)
4x	Flat Washer, #10	(P/N 100-2160)
4x	Lock Washer, #10	(P/N 100-2161)
4x	Washer, #8 Flat Washer	(P/N 100-1880)
4x	#8-Lock Washer	(P/N 100-2308)

### 3. Installation Hardware Kit (P/N 150-1563)

1x	Strap, Rear Mounting, Perforated	(P/N 108A3698)
2x	Flat Washer, #10	(P/N 100-2160)
2x	Lock Washer, #10	(P/N 100-2161)
1x	M5x8MM Hex Hd. Machine Screw	(P/N 100-1602)

### Owner's and Installation Guide (P/N 128-7148)

#### Headunit Installation

Choose the mounting location carefully so that the unit will not interfere with the normal driving function of the driver. Avoid installing the unit where it would be subject to high temperatures such as from direct sunlight or hot air from the heater or where it would be subject to dust, dirt or excessive vibration. Use only the supplied mounting hardware for a safe and secure installation.

#### *Mounting Angle Adjustment*

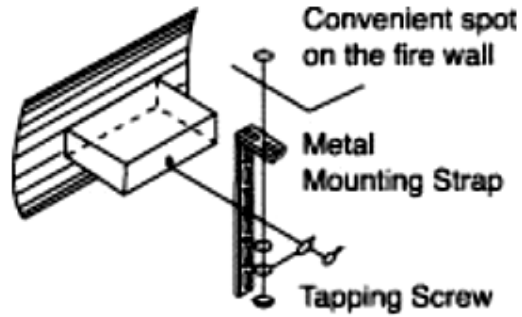
Adjust the mounting angle to less than 20 degrees.

#### MOUNTING EXAMPLE

Installation in the dashboard

## STRAP

Be sure to use the strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.



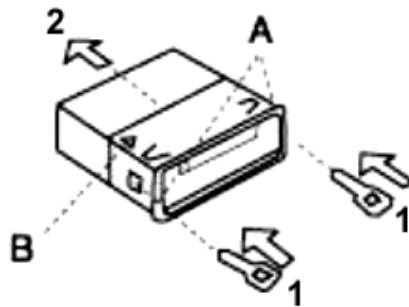
## ***Installing the Holder***

After inserting the holder into the dashboard, select the appropriate tabs according to the thickness of the dashboard material and bend them inwards to secure the holder in place.



## HOW TO DETACH THE MOUNTING FRAME

1. Insert the release keys into the holes indicated by "A".
2. Remove the frame "B" from the unit.



## **NOTE:**

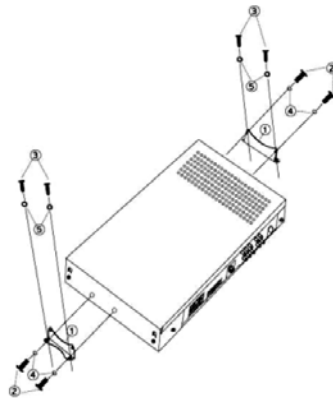
Keep the release keys in the safe place, as you may need it in the future to remove the unit from the car.

### ***Installation of the RT Box***

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction, for example, the source may skip.

1. Align the holes in the unit with the vehicle-mounting bracket and secure the unit with the accessory screws.
2. During installation, do not use any screw except for those provided. The use of different screws might result in damage to the main unit.

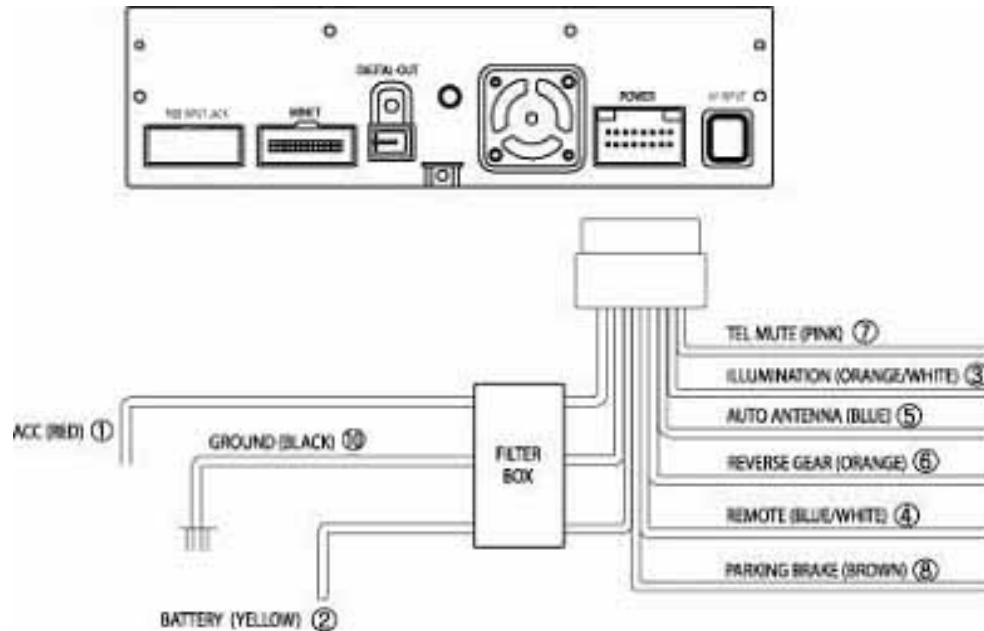
**NOTE:** Damage may occur if a screwdriver or similar tool is used with excessive force during the installation.



## Connecting to Power & Multi Channel AV Control Unit System

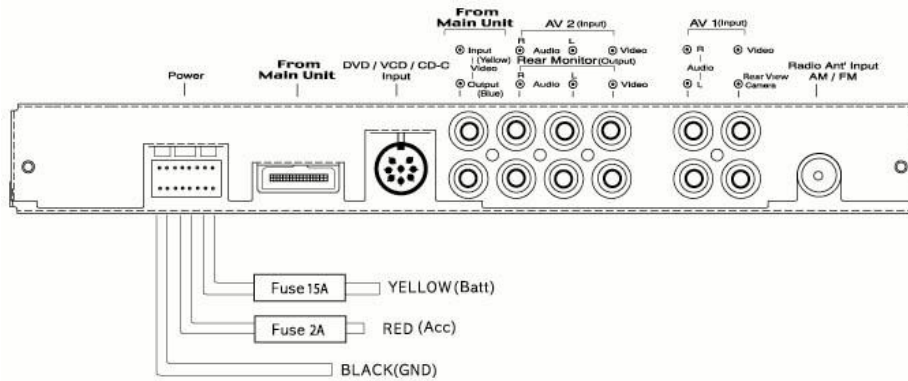
### *Power Connection to Head Unit*

The illustration shown below depicts a typical power connection though the actual connection may vary depending on manufacturers (refer to the documentation supplied with the equipment to be connected). If the connection is not properly made, the unit may sustain unexpected damage.



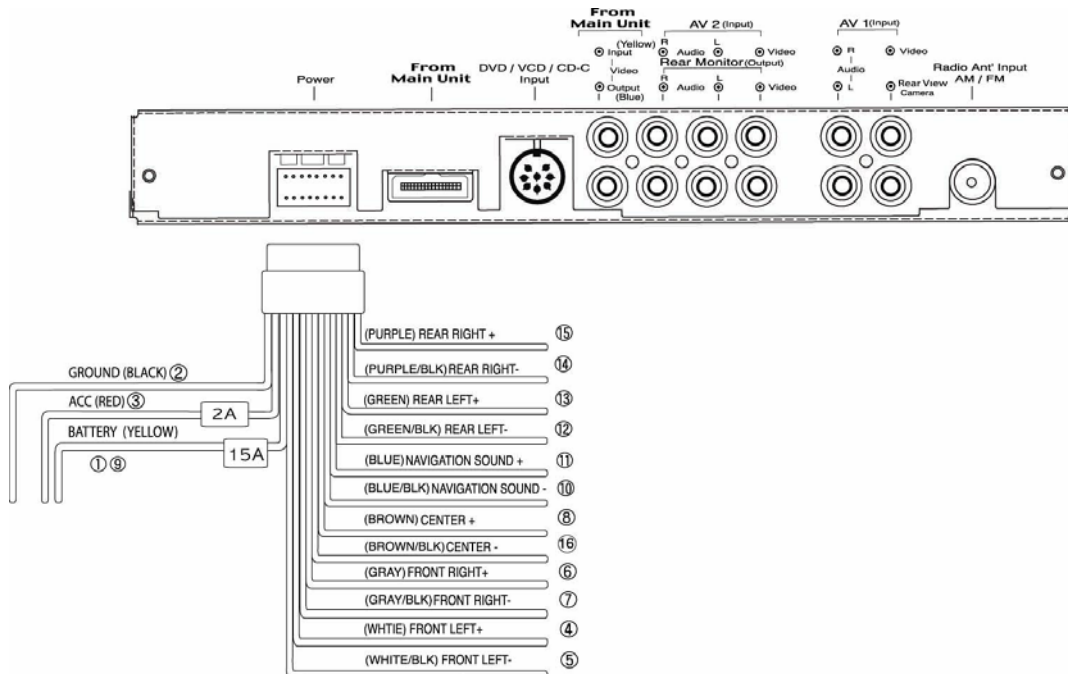
1. Connect the Red wire (1) to ACC Power.
2. Connect the Yellow wire (2) to the Battery (+).
3. Connect the Orange/White wire (3), to the Dash Light wire.  
**NOTE:** If the Orange/White wire is not connected to the head unit's front panel will not be illuminated.
4. Connect the Blue/White wire (4) to an Optional Power Amplifier power control terminal.
5. Connect the vehicles Antenna Power wire (motorized or film-type) to head unit's Blue Auto Antenna wire (5).
6. Connect the Orange wire (6) to the Optional Backup Camera.
7. Connect the Pink wire (7) to the Optional Telephone Mute wire.
8. Connect the Brown wire (8) to the Parking Brake.  
**NOTE:** If the Brown wire is not connected to the Parking Brake, video will not be displayed on the screen.
9. Connect the Black wire (10) to Ground.

## RT Box Connections



1. Connect the Yellow wire to the Battery (+).
2. Connect the Red wire to ACC Power.
3. Connect the Black wire to Ground.

## WIRING DIAGRAM OF RT BOX 16PIN CONNECTOR



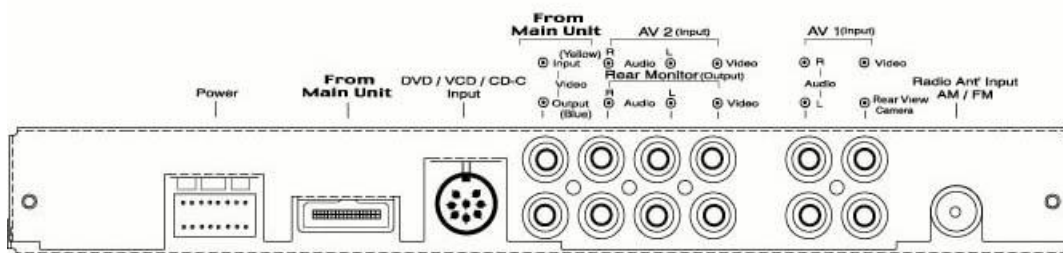
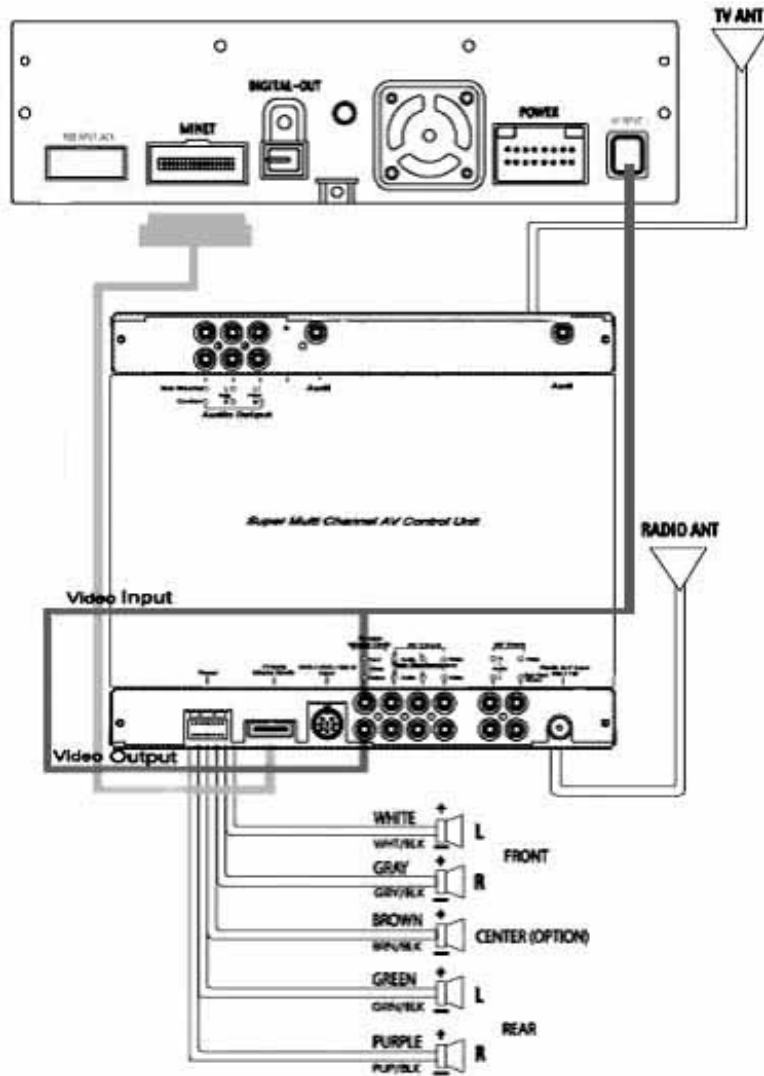
1. Connect the Yellow wire (1,9) to the Battery (+).
2. Connect the Black wire (2) to Ground.
3. Connect the Red wire (3) to ACC Power.
4. Connect the White wire (4) to the Positive (+) of the Left Front Speaker.
5. Connect the White/Black wire (5) to the Negative (-) of the Left Front Speaker.
6. Connect the Gray wire (6) to the Positive (+) of the Right Front Speaker.
7. Connect the Gray/Black wire (7) to the Negative (-) of the Right Front Speaker.

8. Connect the Brown wire (8) to the Positive (+) of the Center Speaker.
9. Connect the Blue/Black wire (10) to the Negative (-) of the Navigation Sound
10. Connect the Blue wire (11) to the Positive (+) of the Navigation Sound
11. Connect the Green/Black wire (12) to the Negative (-) of the Left Rear Speaker.
12. Connect the Green wire (13) to the Positive (+) of the Left Rear Speaker.
13. Connect the Purple/Black wire (14) to the Negative (-) of the Right Rear Speaker.
14. Connect the Purple wire (15) to the Positive (+) of the Right Rear Speaker.
15. Connect the Brown/Black wire (16) to the Negative (-) of the Center Speaker.

### **Connecting to the Multi Channel AV Control Unit System**

The Illustration on the following page is an example setup with the Multi Channel AV Control Unit System. The exact connection method will vary depending on the specific components selected for a particular installation. Please refer to the owner's and installation manuals supplied with the associated equipment.





If a DVD or VCD Changer is used, connect the Video Output of the changer to the Video Input of AV2. Do not connect the Audio Output of the changer to the Audio Input of AV2 this connection is done through the Din Cable connection.

**NOTE:**

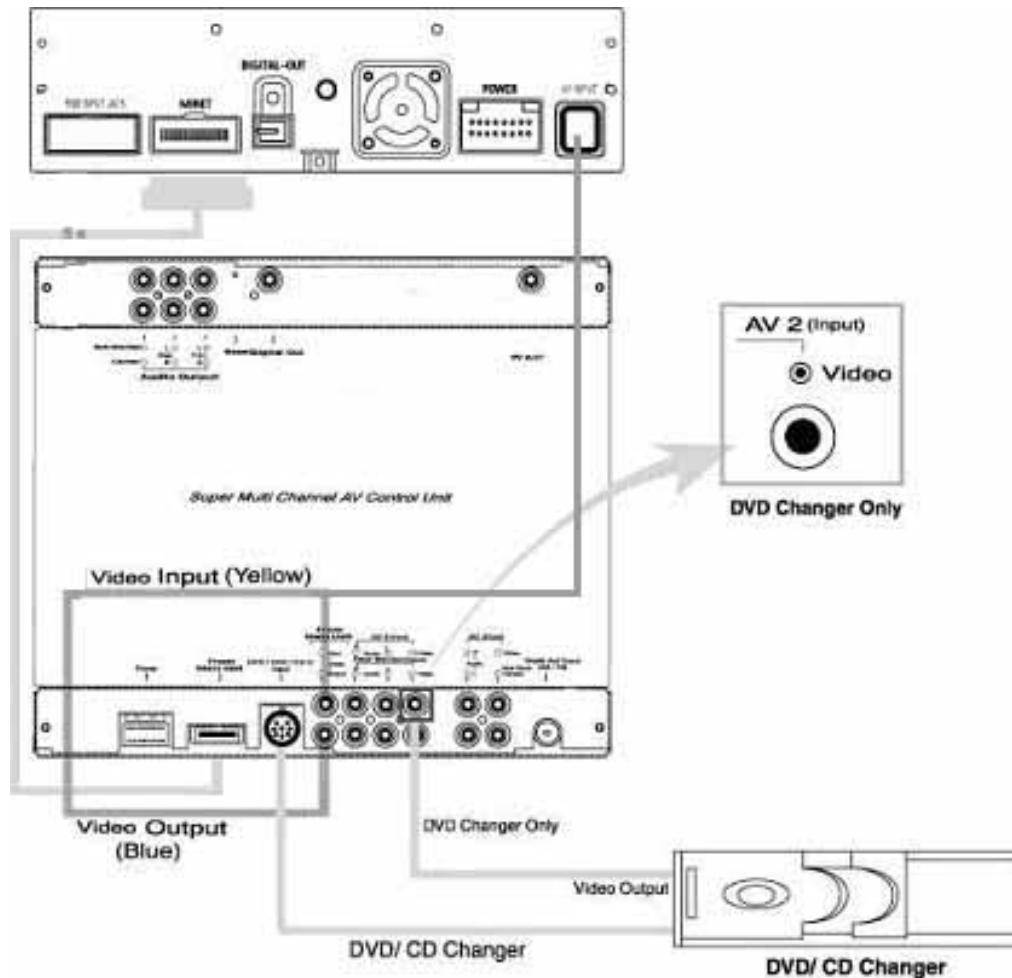
- Make sure that power is OFF before making signal connections.
- Connect the Head Unit MINET Jack directly to RT Box MINET Jack

- When installing a Subwoofer, use an additional power amplifier equipped with a Subwoofer analog line out.

**WARNING**

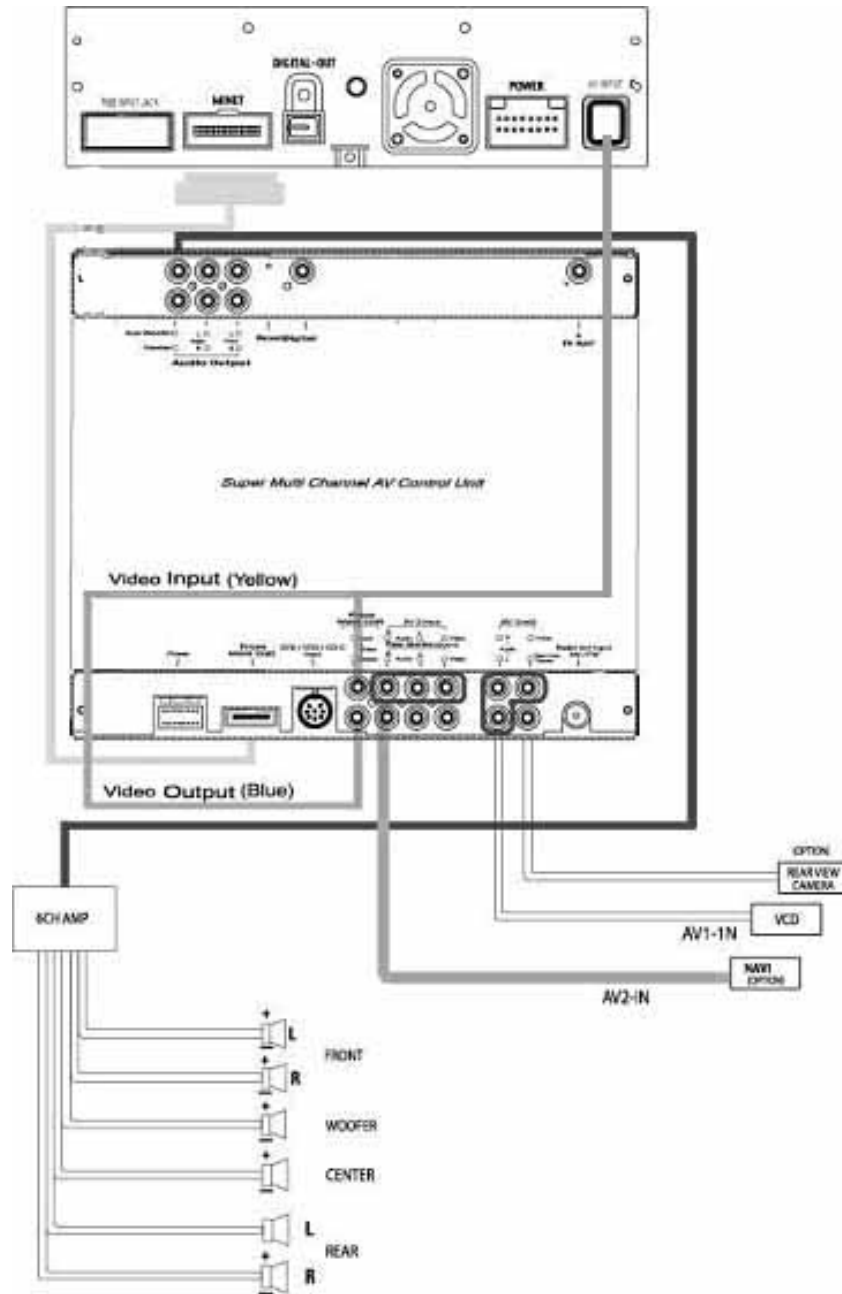
The Digital Audio Output of this DVD player can only be connected to a compatible Dolby Digital and/or DTS decoder or to an amplifier equipped with a digital audio input. High volume digital signals may damage other equipment and hearing.

**Connecting to the DVD Changer Control System**



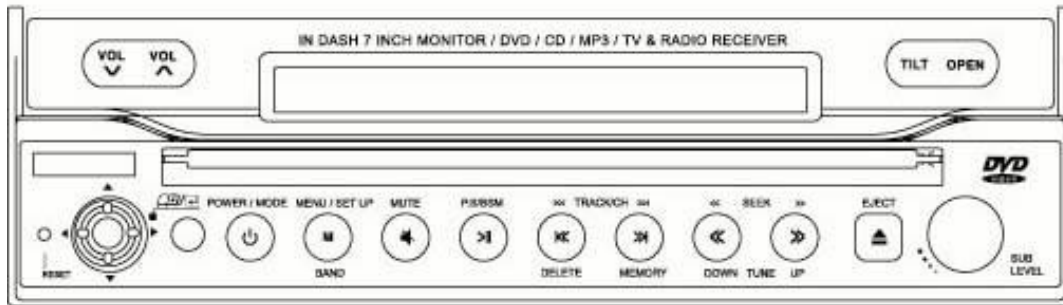
**Connecting to the Multi Channel AV Control Unit System w/ Additional 6CH Amp**

The Illustration on the following page is a possible example for Multi Channel AV Control Unit System in additional 6CH Amplifier with RT BOX. The exact connection method will vary depending on the specific components selected for a particular installation. Please refer to the owner's and installation manuals supplied with the associated equipment.



**NOTE:** For a more powerful 5.1CH sound system, an additional power amplifier of 6CH or 5CH +1CH amplifier will need to be added to the system.

## FRONT PANEL MAINTENANCE



### Lens Fogging

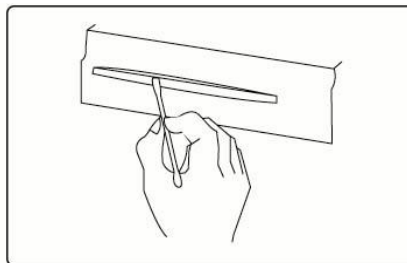
In certain weather conditions, dew or condensation may form on the lens in the player. In this condition, it may be possible that the discs will not play. If this happens, remove the disc and wait for the condensation to evaporate. If the unit does not operate normally after a while, consult your Audiovox dealer.

### Cleaning the Unit

If it becomes necessary to clean the front panel of the unit, use a clean dry soft cloth wipe it clean. If the front panel is still dirty after using the dry cloth, moisten the cloth with a neutral cleaner, and then wipe it with a dry cloth to remove all of the cleaner.

Do not apply spray cleaner directly onto the unit. Do not wipe the front panel with a hard cloth or using a volatile liquid such as thinner or alcohol, which may scratch the surface or erase characters.

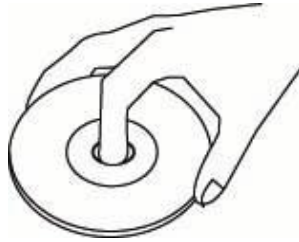
### Cleaning the CD Slot



The CD slot should be clean and clear of any dust build-up. Discs may become scratched due to dust accumulation. Use a clean dry cotton swab to remove any dust build-up

## HANDLING CDs

Do not touch the recorded surface of the CD.

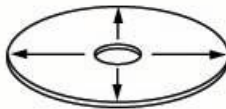


CD-R and CD-RW discs are easier to damage than a normal music CD.

Do not apply tape or adhesive stickers etc. to the CD. Tape or adhesive stickers could come off and cause damage to the unit.

## CD cleaning

Clean discs from the center of the disc and move outward towards the outside edges.

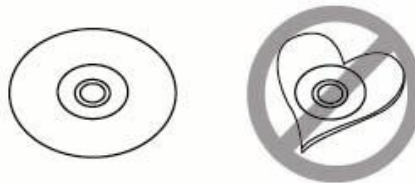


## Removing CDs

When removing CDs from the unit, pull the discs out horizontally.

## CDs That Can Not Be Used

CDs that are not round cannot be used.



Do not use CDs that are scratched or dirty.

This unit can only play discs of the following formats:

- Audio CD
- CD-R
- CD-RW
- DVD

The unit may not correctly play discs with other formats.



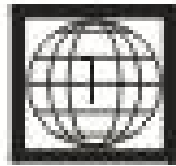
CD-R or CD-RW discs that have not been finalized cannot be played. (For the finalization process, refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

### **CD storage**

Do not place CDs in direct sunlight (On the seat or dashboard etc.) or where the CDs will be subjected to high temperatures. CDs should be stored in their storage cases in an area of the vehicle that will not be subjected to damaging heat.

### **Region Number**

Most DVDs are manufactured specifically for sale and use in a specific geographic region. The Region Number on a DVD must correspond to the Region Number of the DVD Player. The region number of the DVD Player is labeled on the top label on the top of the unit.

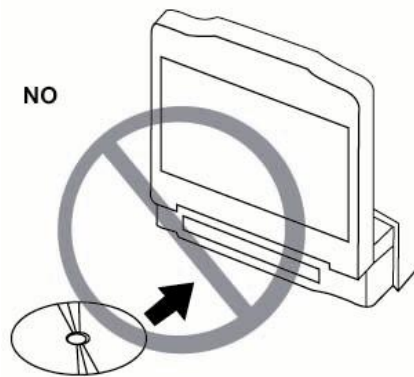


If the Region Number of a disc is different from the Region Number of the DVD Player, playback of the disc will not be possible.

**NOTE:** The PAV2000DTV is designed for use in Region 1 (North America).

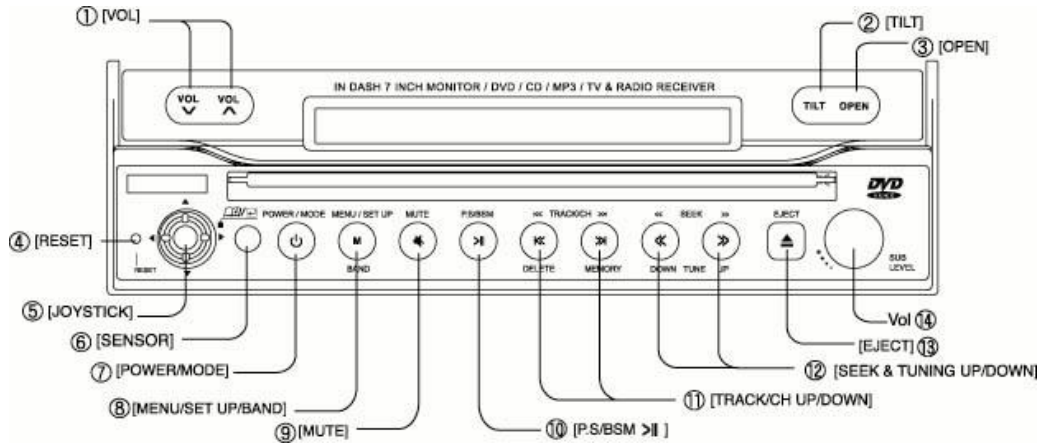
### **Disc Insertion**

**CAUTION:** With the screen in the open position, the driver may have difficulty seeing the disc insertion slot. As a safety precaution, discs should be inserted while the screen is in the closed position.



# CONTROLS AND INDICATORS

## Front Panel (With the Display Closed)



### 1. Volume Up/Down buttons

This button is used to increase/decrease the Audio Volume.

### 2. Tilt button

Momentarily press and release this button to adjust the angle of the TFT LCD panel with 3 steps. When this button is pressed and held for 2 seconds, the TFT LCD panel moves 2 steps backward & 1 step to forward.

### 3. Open button

This button is used to Open and Close the TFT LCD panel.

### 4. Reset button

This button is used to return the unit to the original factory settings (Initial Mode) if the unit fails to operate properly.

**NOTE:** If the unit still fails to operate properly after the Reset button has been pressed, contact your local Audiovox dealer for assistance.

### 5. Joystick

The joystick is used to choose all directional functions (UP/DOWN/LEFT/RIGHT). Once a selection has been made using the joystick, press Enter to confirm the selection.

### 6. Remote IR Sensor

The Remote IR Sensor is used to receive infrared signals from the remote control.

### 7. Power/Mode

The Power/Mode button is used to turn the unit ON and OFF. To turn the unit OFF, press and hold the button for 2 seconds. The Power/Mode button can also be used to switch between AV1, AV2, DVD, Radio and TV modes.

## 8. **Menu/Setup**

- **Menu:** This button is used to display the System Menu.
- **Setup:** Press and hold this button for 2 seconds to display the DVD MPEG Setup Menu.
- **NOTE:** This button is used to switch between receiving bands for Radio or TV modes.

## 9. **Mute**

This button is used to mute all Audio outputs. Pressing the Mute button again will restore all Audio outputs.

## 10. **P.S./BSM**

This button is used to scan and store AM/FM stations. Momentarily press and release this button to start the scan mode. When a desired station is reached, press the button again to stop the scan mode. Press and hold this button for 2 seconds to store the station.

## 11. **TRACK/TV CH Up/Down**

This button is used to tune the stations to be stored in Radio and TV mode.

- **Delete (I<<)**  
The Delete button is used to remove previously stored stations that are displayed on the screen. Press and hold this button until the selected station is deleted.
- **Memory (>>I)**  
The Memory button is used to store desired stations. Once a desired station is displayed on the screen, press and hold the button until the station is stored into memory.

**These buttons are also used to select the next Track or Song of an Audio or MP3 CD.**

**These buttons are also used to select the next Chapter of a DVD.**

## 12. **Seek Tuning UP/DOWN**

- **In Radio Mode:** This button is used to seek the next Radio station with clear reception.
- **In TV Mode:** This button is used to seek the next TV Channel with clear reception.
- **In CD or DVD Modes:** Press the directional buttons to scan Fast Forward or Fast Reverse on the disc. Press and hold the button for 2 seconds to play the disc in Slow Forward or Slow Reverse.

## 13. **Eject**

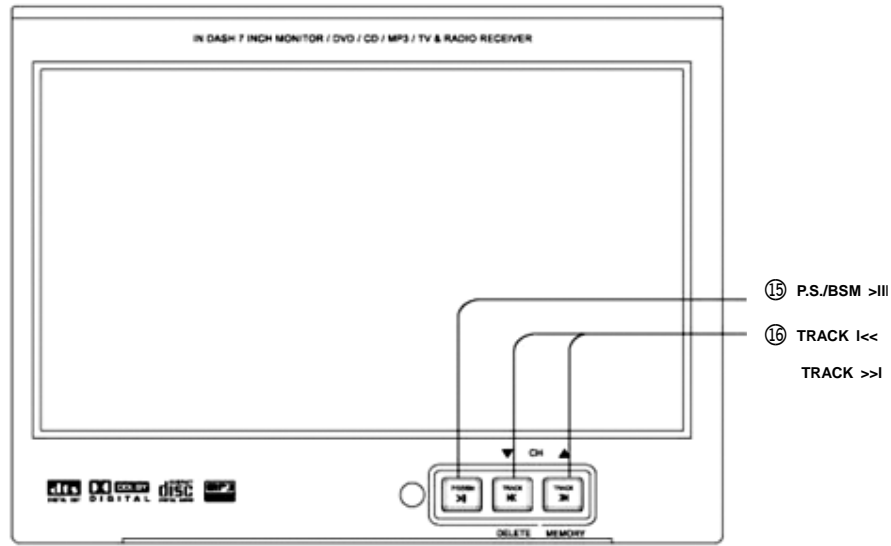
This button is used to eject the disc from the unit.

## 14. **Sub Level**

Use this knob to adjust the Subwoofer level for analog line output only.



## Front Panel (With the Display Open)



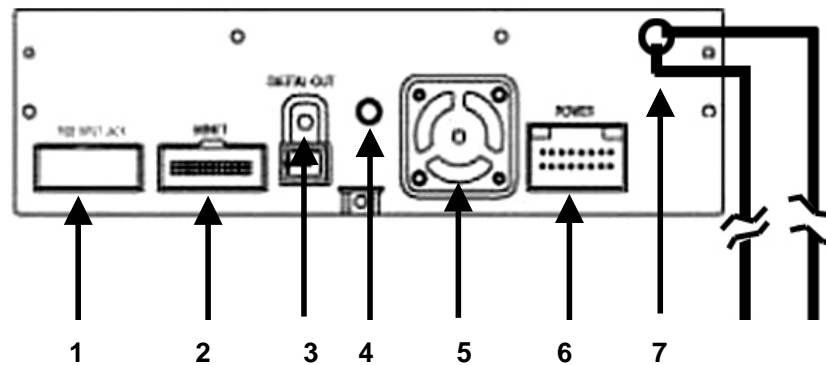
### 15. P.S./BSM

Same as item number 10 on the previous page.

### 16. Track/TV CH Up/Down Track I<< and Track >>|

same as item number 11 on the previous page.

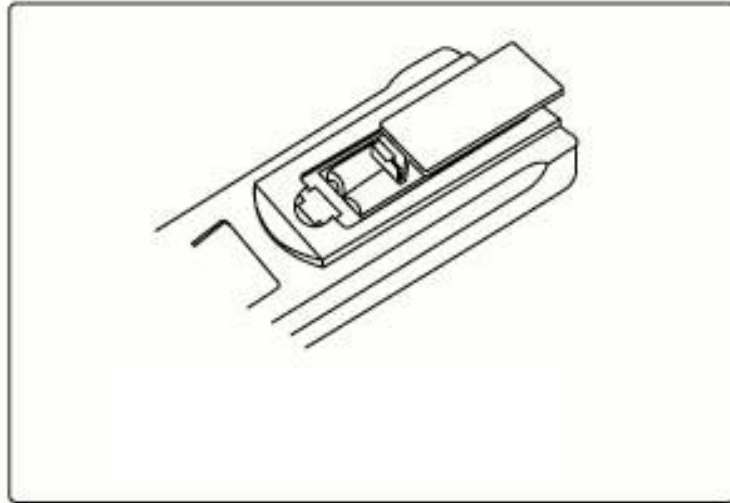
## Rear Panel



1. RGB Input for Audiovox Navigation Connection
2. Minet for RT Box Connection
3. Optical Digital Output for Special Dolby Digital & DTS Decoder Connection
4. Mounting Bolt
5. Cooling Fan
6. 16 Pin Power Connector
7. Video In/Out for RT Box Connection

## REMOTE CONTROL

### Battery Installation



1. Place the Remote Control button side down.
2. Slide the Battery Compartment Cover open (Off).
3. Insert two (2) AAA Batteries.

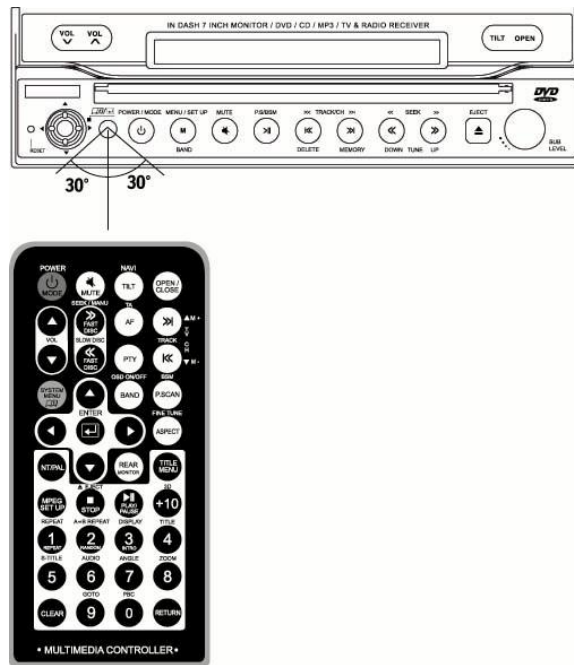
**NOTE:** Be sure to observe the correct polarity (+/-) as indicated in the battery compartment.

4. Replace the Battery Compartment Cover

**CAUTION:** INCORRECT BATTERY USEAGE MIGHT CAUSE EARLY DISCHARGE, LEAKAGE OR CORROSION DAMAGE.

- It is dangerous to charge/heat/open or short-circuit the batteries.
- Remove the batteries if the remote control will not be used for long periods of time.
- Replace the batteries when the operating range becomes reduced or if the remote control does not work properly.
- Should battery leakage occur, clean the battery compartment with a soft cloth and install new batteries.

## Remote Control Functions



The remote control should be pointed directly at the IR remote sensor (as shown above) in order for the headunit to function correctly.

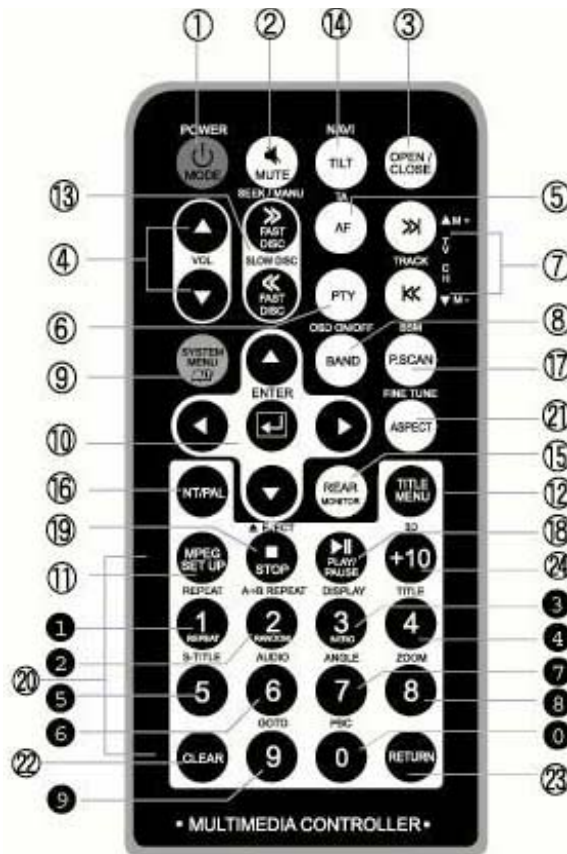
**Distance:** The maximum distance that the remote control can be used is approximately 16 feet from the front of the remote sensor.

**Angle:** The maximum angle that the remote control can be used is approximately  $\pm 30$  degrees from center of the IR remote sensor.

### NOTE:

- Do not install the headunit where direct sunlight or fluorescent illumination can shine directly into the IR remote sensor. Direct sunlight or fluorescent illumination could interfere with proper remote control operation.
- Avoid dropping the remote control.
- Avoid spilling liquids on the remote control or exposing it to extreme heat.

## Remote Control Key Functions



No	Short Press (1 SEC)	Long Press (2 SEC)	Remark
1	Power ON/Mode	Power OFF	
2	Mute		
3	Open/Close		
4	Volume Up/Down		
5	AF-Alternate Frequency	TA -Traffic Announcement	For use with RDS only
6	PTY-Program Type	REG-Region	For use with RDS only
7	Track Up/Down		DVD/CD/MP3/Radio/TV
8	Band	OSD ON/OFF(Changer)	
9	System Menu		
10	Direction Key (▼,▲,◀,▶) ENTER		DVD/CD/MP3/Radio/TV
11	DVD Set Up		
12	DVD Title Menu		
13	Fast Disc/ Manual Tuning	Slow Disc/Seek Tuning	DVD/CD/Radio/TV
14	Tilt (5 Steps)	Navigation Hot Key	Tilt / Navigation
15	Rear Monitor		

16	NT/PAL-NTSC or PAL		DVD Mode Only
17	Preset Scan	BSM(Best Station Memo)	
18	Play/Pause		DVD/CD/MP3
19	Stop	Eject	DVD/CD/MP3
20	Numeric Key Pad (Detailed Below)		
1	1	Repeat	Repeat in CD Changer
2	2	A → B Repeat	Random in CD Changer
3	3	Display	Intro Scan in CD Changer
4	4	Title	
5	5	S-Title-Sub Title	
6	6	Audio	
7	7	Angle	
8	8	Zoom	
9	9	Goto	
0	0	PBC	
21	Aspect	Fine Tune (TV Mode)	
22	Clear		
23	Return		
24	+10	3D	

## SYSTEM OPERATION

### Turning The System Power ON/OFF

To turn the system power ON, press and release the POWER button. The monitor will be vertically positioned when pressing Open/Close button.

Pressing and releasing the Open/Close button can also turn ON the system power.

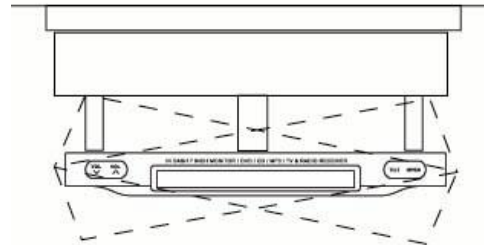
To turn the system power OFF, press and hold the POWER button again for 2 seconds. The monitor will automatically close when the unit is powered OFF.

### Opening The Monitor

Press the OPEN/CLOSE button to open the monitor.

### Closing The Monitor

1. Hold the upper left & right side of the monitor parallel with the front of the unit as shown in the picture below.



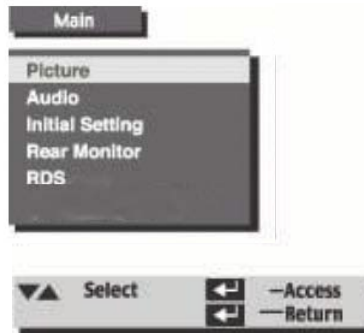
2. Press the OPEN/CLOSE button or POWER button for 2 seconds or longer and the monitor will automatically close.

#### NOTE:

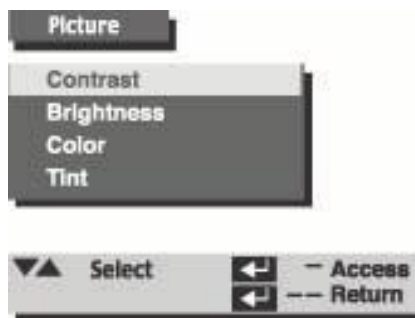
- If the monitor is not parallel to the front of the unit (the monitor is angled to the left or the right) the monitor cannot be closed. A beep tone will alert the user to the problem.
- If the OPEN/CLOSE button is pressed while radio or video is on, the monitor will close, and sound will still be audible. When pressing power button for 2 seconds, the sound and power will be "OFF".

## Picture Control

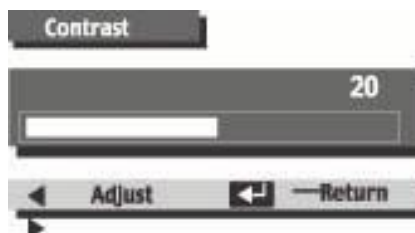
1. Press the SYSTEM MENU button on the remote control until the monitor displays following picture and choose "PICTURE" on OSD.



2. Using the ▲ ▼ keys, place the cursor (Yellow Bar) on Picture and press the ENTER key.



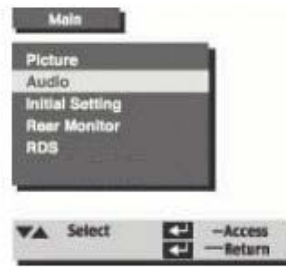
3. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on the feature that needs adjustment (Ex. Contrast, Brightness, Tint). Press the ENTER key to make the desired selection.
4. Press the ◀ ▶ keys to adjust the level of the feature that needs adjustment as shown in the figure below.



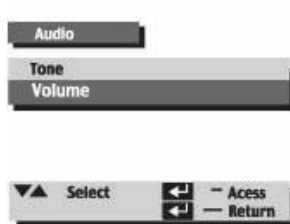
5. Press the ENTER key for 2 seconds to return to the previous menu. When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear.

## Audio Control

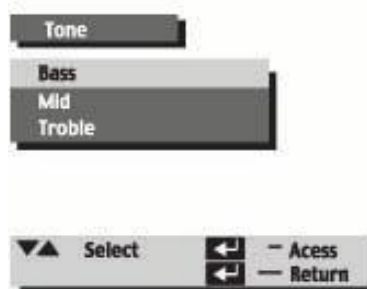
1. Press the SYSTEM MENU button on the remote control until the monitor displays the figure shown below.



2. Use the ▲ ▼ keys and place the cursor (Yellow bar) on Audio and press the ENTER key.
3. Use the ▲ ▼ keys and place the cursor (Yellow bar) on the item feature that needs readjustment (Ex. Tone, Volume). Press the ENTER key to make the desired selection as shown in the picture below.

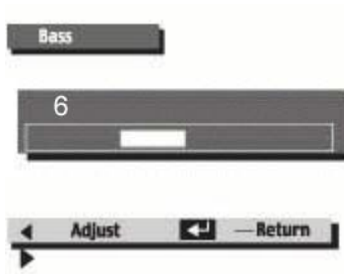


4. Use the ▲ ▼ keys and place the cursor (Yellow bar) on the item that needs to be adjusted (Ex. BASS, MID, TREBLE). Press the ENTER key to make the desired selection.





5. Press the ◀ ▶ keys to adjust the level of the selected item as shown in the figure below.



6. Press the SYSTEM MENU button for about 2 seconds in order to return to the previous menu.  
**NOTE:** When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear.
7. The Bass/Mid/Treble features can be adjusted from –6 level to +6 level.
8. Repeat the same process for the other features that need to be adjusted.
9. Press the ENTER key for 2 seconds in order to return to the previous menu. Press the SYSTEM MENU button to leave the MENU OSD.

### Initial Setting - (Color System)

1. Press SYSTEM MENU button until the monitor displays the following picture shown in the picture below.



2. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Initial Setting and press the ENTER key.

- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Color System and press the ENTER key. The figure shown below will appear on the display.



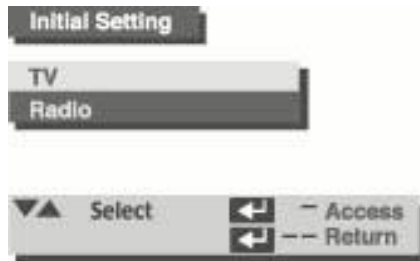
- With the cursor placed on the Color System feature, press the ENTER key to switch between NTSC and PAL modes. When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear. When no key is pressed for 5 seconds, the SYSTEM MENU will disappear.
- Press the ENTER key for 2 seconds to return to the previous menu.
- Repeat the above previous steps to adjust the Navigation, Auto Dimmer and Beep Tone features

### Initial Setting - (Adjust TV System)

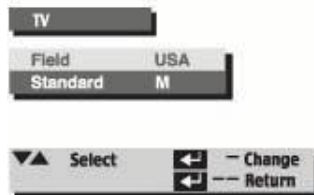
- Press the SYSTEM MENU button and select the Initial Setting feature.



- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Adjust and press the ENTER key.
- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on TV and press the ENTER key as shown in the figure below.



- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on the Field feature and press the ENTER key as shown in the figure below.



- Each time the ENTER key is pressed the Field and Standard selections will change for the selections detailed below:
  - U.S.A and M → CCIR1 and B/G → CCIR2 and BG → Ireland and IT' → Australia and BG → China and BG → O.I.R.T and DK

When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear.
- Press the ENTER key for 2 seconds to return to the previous menu.

### Initial Setting - (Adjust Radio System)

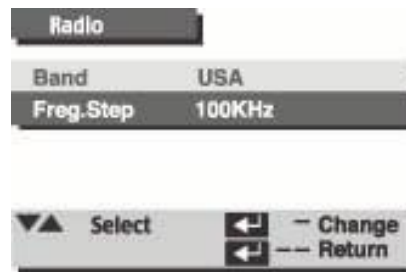
- Press the SYSTEM MENU button and select the Initial Setting feature.



- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on the Adjust feature and press the ENTER key.
- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Radio and press the ENTER key as shown in the figure on the following page.



- Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Band and press the ENTER key as shown in the figure below.



- Each time the ENTER key is pressed, the FM Band and FREQ. Step will change as detailed below:
  - USA and 100 kHz → Europe and 50K Hz → O.I.R.T and 50K Hz → Asia and 50K Hz → Australia and 100 kHz → S. America and 100 kHz → China and 50K Hz → Japan and 100K Hz → Korea and 100 kHz

When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear.

- Press the ENTER key for 2 seconds to return to the previous screen. Press the ENTER key for about 2 seconds to turn the SYSTEM MENU off. Press the SYSTEM Menu button again to turn the MENU OFF directly.

## Initial Setting - (Adjust Sound Mix)

1. Press the SYSTEM MENU button and select the Initial Setting feature.



2. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Sound Mix and press the ENTER key.
3. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on NAVIGATION and press the ENTER key as shown in the figure below.



4. Each time ENTER key is pressed, the Navigation feature will change as detailed below:
  - OFF → R → L → L+R
5. Press the ENTER key for 2 seconds to return to the previous screen.
6. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Handsfree and press the ENTER key as shown in the figure below.



7. Each time the ENTER key is pressed, the Handsfree feature will change as detailed below:
    - OFF → R → L → L+R
  8. Press the ENTER key for 2 seconds to return to the previous screen.
  9. Press the ENTER key for 2 seconds to return to the previous screen. Press the ENTER key for 2 seconds to turn the MENU off. Press the SYSTEM MENU button again to turn MENU OFF directly.
- When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear.

### Initial Setting - (Rear Camera)

1. Press the SYSTEM MENU button and select the Initial Setting feature.



2. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on Rear Camera and press the ENTER key.
3. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on USE and press the ENTER key as shown in the figure below.



4. Each time the ENTER key is pressed the USE feature will change as detailed below.
  - ON → OFF

When there are no keys are pressed after 5 seconds or if the SYSTEM MENU button is pressed, the OSD menu will disappear.
5. Press the ENTER key for 2 seconds to return to the previous screen.

6. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on ANGLE and press the ENTER key as shown in the figure below.



7. Each time the ENTER key is pressed the ANGLE feature will change as detailed below:
- 0 deg → 180 deg
8. Press the ENTER key for 2 seconds to return to the previous screen. Press the ENTER key for 2 seconds again to turn the MENU off. Press the SYSTEM MENU button again to turn the MENU off directly.

## Rear Monitor

1. Press the SYSTEM MENU button and select Rear Monitor as shown in the figure below.



2. Use the ▲ ▼ keys for setting the Rear Monitor feature to DVD, Radio, TV, AV1, AV2, OFF as shown in the figure below. The Rear Monitor feature can be set via the Rear Monitor button on the remote control button.



When there are no keys are pressed after 5 seconds or if the SYSTEM MENU

button is pressed, the OSD menu will disappear. When no key is pressed for 5seconds, the menu will be disappeared. Or press SYSTEM MENU button again to turn MENU off directly.

## OVERVIEW OF THE RDS FUNCTION

### ***AF (Alternative Frequencies) / REG (Regional):***

After turning the RDS feature on, AF can be set to become "ON" or "OFF" using the AF button on the remote control.

- AF "OFF": When the AF switching mode is set to OFF and RDS is set to "ON", a maximum number of 6 RDS and non-RDS will be stored together.
- AF "ON": When the AF switching mode is set to ON the RDS station information will only be displayed.
- AF Segment Flashing: When the AF switching mode is selected and the RDS information is not received yet AF segment flashing will occur.

When the AF switching mode is "ON", the radio continually checks the AF signal strength. The interval of checking time of each AF depends on the signal strength of current station which can be anywhere from a few seconds for strong station to a few minutes for weak station.

Every time a new AF is stronger than a current station, the AF will it switch over to the stronger station quickly.

To access the Region feature, press the PTY button on the remote control for 2 seconds and the REGIONAL mode will be set to ON or OFF.

**-REG mode "ON":** When the Region mode is set to ON the AF switching or PI SEEK is implemented to the station that has all PI codes that are the same as the current station. "REG ON" should be shown on screen.

**-REG mode "OFF":** When the Region mode is set to OFF the regional code in the format of PI code is ignored when AF switching or PI SEEK is implemented. "REG OFF" should be shown on screen.

When the regional mode is "OFF", the radio may switch from a national program station to a local variant of that program, or from a local station in an area to a local station in another area. This may cause customers to listen to a wrong program. To avoid this feature set the Region mode to "ON", and then the radio will only switch to an AF that broadcasts Region mode to the same program.



### **TA(Traffic Announcement) / TP (Traffic Program)**

TP mode will automatically switch between “ON” and “OFF” depending upon the broadcast. In order to access the TA mode, press the AF button on the remote control for 2 seconds and the TA mode will switch between “ON” and “OFF”.

When the TA mode is “ON” and a traffic announcement is received the following may occur:

- The unit will switch out of DVD/TV/AV1/AV2 modes temporarily to radio mode.
- The volume level will be raised to the threshold point. If the volume level was greater than the threshold point, the volume will decrease.
- When the TA mode is “ON”, the OSD will display “TA ON”
- When a TP station is received, the OSD will display “TP ON”.

### **PTY (Program Type)**

To access the Program Type feature, press the PTY button the remote control and the OSD will display “PTY ON” or “PTY OFF”. When in the “PTY ON” mode, the different program types can be selected by using the track up and down buttons (I<<, >>I)

### **RDS (Radio Data System)**

1. Press SYSTEM MENU button and the monitor will display the figure show below.
2. Use the ▲ ▼ keys and place the cursor (Yellow Bar) on RDS and press ENTER key.
3. Use the ▲ ▼ keys to turn the RDS function ON or OFF as shown in the figure below.



When the RDS function is set to ON the OSD will be similar to that as shown in the figure below.

4. Press P.S/BSM button to store the RDS stations.

NOTE: Only six RDS stations can be stored at one time per band.



### Tuning (TV-Auto Search)

1. After adjusting the TV system within the Initial Setting feature, press the P.S/BSM button on the front panel of the unit to store TV channels.  
The indication "Searching" will flash on the screen during the TV Auto Search feature and the channels will be memorized automatically.
2. When the Auto-Search has completed, the memorized channels will be displayed on the screen and circulated until the P.S/BSM button is pressed again.
3. Select the memorized TV Channels by using the direction keys (◀▶).



### Tuning (Radio-Auto Search)

1. After adjusting the Radio system within the Initial Setting feature, press the P.S/BSM button on the front panel of the unit to store Radio stations.  
The indication "Searching" will flash on the screen during searching Radio Station Search Feature and the stations will be memorized automatically.
2. When the Auto-Search has completed, the memorized stations will be displayed on the screen and circulated until the P.S/BSM button is pressed again.
3. Select the memorized Radio Stations by using the direction keys (◀▶).



## DVD Player Operation

### Changing DVD System Setting

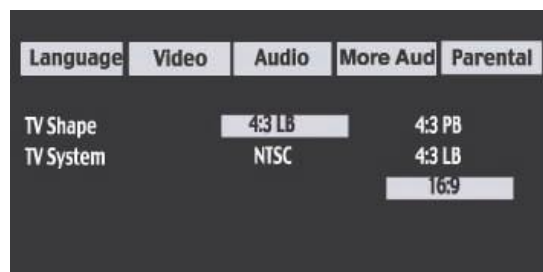
Press the MPEG SET UP button on the remote control, and five categories will be displayed on the screen: Language, Video, Audio, More Audio, and Parental. Use the directional arrows ◀ and ▶ to select between the displayed features. Use the ENTER button to select the desired feature.

#### Language



Within the Language menu, the following features can be adjusted: OSD Menu, Subtitle, Audio, and DVD Menu. Use the directional arrows ▲ and ▼ to choose the desired selection. Use the directional arrows ◀ and ▶ to adjust the settings. The available language settings are English, French, Japanese, Korean, and Spanish.

#### Video



Within the Video menu, the following features can be adjusted: TV Shape and TV System. Use the directional arrows ▲ and ▼ to choose the desired selection. Use the directional arrows ◀ and ▶ to adjust the settings. TV Shape can be adjusted to the following features: 16:9, 4:3 PS, and 4:3 LB. TV System can be adjusted to the following features: NTSC, PAL, and AUTO.

## Audio

Language	Video	Audio	More Aud	Parental
		Analog Out		Digital Out
Dolby Digital		2 Channel		Raw
DTS		2 Channel		PCM
MP3/WMA		2 Channel		PCM
CD/VCD		2 Channel		PCM

Within the Audio menu, the following features can be adjusted: Dolby Digital, DTS, MP3/WMA, and CD/VCD. Use the directional arrows ▲ and ▼ to choose the desired selection. Use the directional arrows ◀ and ▶ to between digital and analog out. Use the ENTER button to adjust the settings. The Analog output can be set for 2-Channel and 6-Channel Output. The digital output can be set for PCM, RAW, or OFF.

## More Audio Settings

Language	Video	Audio	More Aud	Parental
Speaker Setting		Subwoofer		YES
Speaker Level		Left Surr		NO
Speaker Delay		Surr Delay		
Drcompression		Full		
Prologic		Auto		
Pink Noise		Left		

Within the More Audio Menu, the following features can be adjusted: Speaker Setting, Speaker Level, Speaker Delay, Dynamic Range Compression Decompression, Prologic and Pink Noise. Use the directional arrows ▲ and ▼ to choose the desired selection. Use the directional arrows ◀ and ▶ to adjust the settings.

### Speaker Setting

Press the ENTER button to cycle the Speaker Setting between two modes: Center and Subwoofer. To select a feature, press the direction button ▶ and "Yes" and "No" will appear on the screen. Use the directional arrows ▲ and ▼ to select either yes or no.

- "Yes": The audio output of the Center and Subwoofer speakers will be separated. Based on the 5.1 CH decoder. A separate Center or Subwoofer speaker is necessary.
- "No": The audio output of the Center and Subwoofer speaker will be sent to Front Rear speakers. This feature should be used when the system does not have a separate Center or Subwoofer speaker.

### **Speaker Level**

Press the ENTER button to cycle through the Speaker Level selections for 5.1 CH speakers as follows: Center, Left Surr, Right Surr, Subwoofer, Front Left, and Front Right. Each time the ENTER button is pressed, each mode will change. To select a mode, press the direction arrow ► and the display will show the level at 0 dB. The level can be adjusted by using the direction arrows ▲ and ▼. Press the ENTER button to choose the level selection.

### **Speaker Delay**

Press the ENTER button to cycle through the Speaker Delay selections for delay time as follows: Center Delay and Surr Delay. Each time the ENTER button is pressed, each mode will change. To select a mode, press the direction arrow ► and the display will show the delay starting at 0 ms. The delay time can be adjusted by using the direction arrows ▲ and ▼. Press the ENTER button to choose the delay time.

### **Dyn Range Comp (Dynamic Range Compression)**

Press the ENTER button to cycle through the Dynamic Range Compression modes as follows: Full or Off.

- Full: In order to limit the audio output, select this mode and the volume level will be decreased by a specified level.
- Off: In this setting, the Dynamic Range Compression mode is "Off".

### **Prologic**

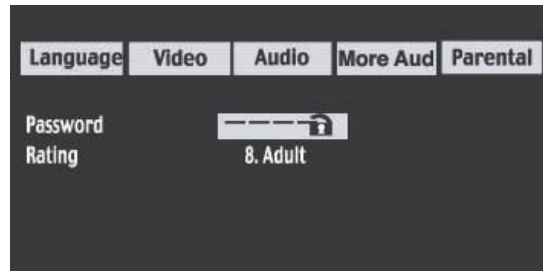
Press the ENTER button to select the Prologic settings. Prologic can be set to Auto, ON, or OFF. Use the directional arrows ▲ and ▼ to cycle through the selections and press the ENTER button.

- Prologic On: In this setting, when the original audio output is 2CH, Stereo, this mode will render the audio output as virtual 5.1CH sound. This mode only applies to DVD and CD Audio modes.
- Prologic Off: In this setting, the Prologic mode is "Off".

### **Pink Noise**

Press the ENTER button to select the Pink Noise settings via the directional arrows ▲ and ▼. Pink Noise can be set to the following modes: Off, Left, Center, Right, Left Surr, Right Surr, and Subwoofer. This mode confirms the proper location for each speaker and the pink noise is audible in each speaker, and the correct location can be verified before the final setting.

## ***Parental***



The Parental Menu prohibits the play of specified DVDs that are unsuitable for children. Press the ENTER button to access the Parental Menu. There are two features within the parental menu: Password and Rating.

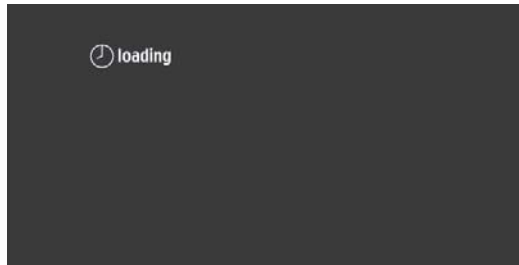
The Password feature is initially unlocked. To set a password, enter a 4-digit code and press the ENTER button.

The Rating feature allows the user to set the Parental rating level of the allowable discs to be played. The rating levels are as follows:

1. Kid safe
2. G
3. PG
4. PG-13
5. PG-R
6. R
7. NC-17
8. Adult

Use the ENTER button to cycle through the rating level selections.

## Disc Playback Operation



### ***Disc Insertion***

Insert a disc into the center of the insertion slot with the label side facing up. The disc will automatically play after loading.

**NOTE:** Do not insert foreign objects into the disc insertion slot. If the mechanism does not accept the disc, either there already may be a disc in the unit or the unit may need service.

Loading 8 CM disc into the center of the insertion slot

### ***Power/ Mode***

The Power/Mode button turns the system ON and OFF. To turn OFF the unit, press and hold the Power/Mode button for 2 seconds. Each time the Power Mode button is pressed, the source will change from DVD / RADIO / TV / AV1 / AV2. When there is no disc in the loader, the mode will automatically switch to Radio mode. The last mode will be memorized when the system is powered off.

### ***Open/Close***

The OPEN button on the unit and the remote control will either open or close the monitor screen. The monitor will only open when the OPEN button is pressed although the unit power is on. The monitor will automatically close when the system is powered off.

### ***Eject***

In order to eject a disc, press and hold the EJECT button on the unit for 2 seconds. Pressing and holding the STOP button on the remote control for 2 seconds will also eject the disc.

### ***Play/Pause***

The disc will load and playback will begin automatically. Upon insertion, when the Play /Pause button is pressed a second time the disc play will be paused.

- If a single-sided disc is loaded upside down, the disc will automatically eject after a few seconds.

- If an Audio CD is inserted, the monitor will display "CD" on the screen. When all chapters on the disc have been played, the unit will automatically stop playing.

### ***Using the Remote Control***

To select a function that is printed on a button on the remote control, press the desired button for 1 second. To select a function that is printed above a button on the remote control, press and hold the desired button for 2 seconds.

### ***Changing Subtitle Language (S-TITLE)***

To change the subtitle language to a different language from the language selected at the initial setting, follow the steps detailed below:

- Press the S-TITLE button (the number 5 button on the remote control) for 2 seconds during playback.
- Repeatedly press the S-TITLE button until the desired language is selected.
- To turn OFF the subtitle feature, press the S-TITLE button until "OFF" is displayed on the screen.

**Note:** This feature only works with discs with multiple subtitle languages.

### ***Changing the Audio Soundtrack & Language (AUDIO)***

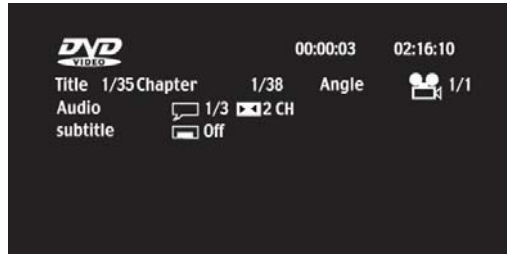
To change the Audio Soundtrack Language to a different language from the language selected at the initial setting, follow the steps detailed below:

- Press the AUDIO button (the number 6 button on the remote control) for 2 seconds during playback.
- Repeatedly press the AUDIO button until the desired Audio Soundtrack Language is selected.

**NOTE:** This feature only works with discs with multiple audio tracks.



## **Display**



To access the Display Feature of the unit, press the DISPLAY button (the number 3 button on the remote control) for 2 seconds. The first time the button is pressed, the track elapsed time and time to end of the disc is displayed on the screen. Pressing the button a second time displays all of the information as shown in the figure above. Pressing the button a third time will remove the display info from the screen.

## **Repeat**

The Repeat feature allows for continuous viewing or listening of a track or disc. To access the Repeat feature, press the Repeat button (the number 1 button on the remote control) for 2 seconds. For DVD, each time the button is pressed, the screen will display the Repeat features as follows:

- OFF→Repeat Chapter→Repeat Title→Shuffle.

For CD audio, each time the button is pressed, the screen will display the Repeat features as follows:

- Repeat Disc→Shuffle→Off.

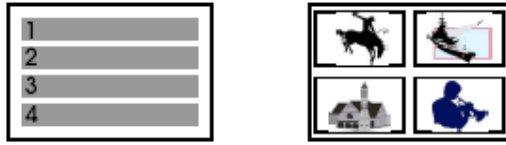
## **A-B Repeat**

The A-B Repeat feature allow for the repeating of a section between two specific points. To access the A-B repeat feature, press the A-B repeat button (number 2 button on the remote control) for 2 seconds and follow the steps detailed below:

- Press the A-B Repeat button during play at the point where repeat play is to start (A).
- Press the A-B Repeat button during play at the point where repeat play is to be concluded (B).
- Play will continuously repeat between the selected A and B points.
- To return to normal play, press the A-B Repeat button once and "OFF" is displayed.

**NOTE:** In CD Changer Mode, this button function is achieved by Random Playback.

### ***Direction Buttons-Menu/Title Navigation and Movement***



Press the direction buttons (◀, ▶, ▲, ▼) to navigate through various on-screen selections. Press the ENTER button to select a desired feature.

### ***After Playback***

When the unit is not in use, eject the disc and turn OFF the power by pressing the POWER button for 2 seconds.

#### **NOTES:**

- If the icon “⊗” appears on the screen when a button is pressed, this indicates that the selected function is not available on the disc at that time.
- Depending on the DVD disc, some operations or features may not be allowed. Refer to the jacket or case of the disc for further information.

### ***Last Memory Feature***

The unit is equipped with a "LAST MEMORY" function that allows the user to resume viewing of a movie from the point where it was last left off.

**NOTE:** The Last Memory function is not supported once the disc is ejected.

### ***Volume UP and DOWN***

The volume of the audio output can be adjusted by pressing the Volume ▲ and ▼ buttons.

### ***GOTO Search Feature***

The GOTO Search feature allows the user to move to any title, chapter, or elapsed time on the disc. Press the GOTO button (the number 9 button on the remote control) for 2 seconds and the search features are selectable on the screen as detailed below:

- Time: Input the desired elapsed time with the Numeric Keypad, and press the ENTER button.
- TITLE/CHAPTER: Input the desired title or chapter number with the Numeric Keypad and press the ENTER button.

### ***Zoom***

The ZOOM feature allows the user to “ZOOM IN” and enlarges the picture on the screen. Press the ZOOM button (the number 8 button on the remote control) for 2 seconds to access the zoom feature. Repeatedly press the ZOOM button to cycle between OFF, 1X, 2X, and 3X enlargement.

While in Zoom mode, the directional buttons enable a Pan and Scan feature that allows the user to view areas of the picture that are not readily visible on the screen.

### ***Angle***

Some DVDs contain scenes that can be viewed from a number of different angles. For discs with this feature, the same scene can be viewed from each different angle using the ANGLE button. Press the ANGLE button (the number 7 button on the remote control) for 2 seconds to access this feature.

### ***Fast/Slow Disc***

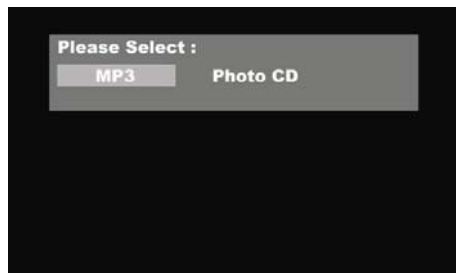
Every time the FAST DISC buttons are pressed, the playback speed of the disc will change by x2, x4, x8, and x20 the original speed in either direction. To access the slow disc feature, press and hold the FAST DISC button for 2 seconds and the playback speed of the disc will change by x1/2, x1/4, x1/6 or x1/7 the original speed in either direction.

### ***Title Menu***

Press the TITLE MENU button to access the menu of the DVD TITLE and to choose a disc menu as desired.

### ***MP3 & Photo CD File***

The unit has the capability of playing MP3 and Photo CDs. Refer to the information below to access these discs.



If the disc contains multiple files, such as MP3 and Photo CD files, the figure shown above will appear on the screen. The user must select the desired file type to be played.

## **MP3 Disc**



### **Track Up & Down (|<<, >>|)**

Use the Track Up and Down buttons or the directional buttons (▲ and ▼) to skip to the next or previous song. To see the next page on the screen, use the directional buttons (▲ and ▼).

### **Numerical Key Pad**

MP3 files can be selected via the numerical keypad.

## **Photo CD**



Press the Title Menu button, while accessing the Photo CD to display and preview the first 9 pictures on the disc. Use the directional buttons (◀, ▶, ▲, ▼) to navigate through the pictures. Press the ENTER button to select a picture to display on the screen.

## **AM/FM Radio Operation**

### ***Band (AM/FM)***

Repeatedly press the BAND button on the remote control to change between the FM and AM bands as follows:

- FM1 / FM2 / FM3 / AM1 / AM2

Each band can store 30 stations.

### ***OSD ON/OFF***

- When the changer is connected, the OSD for changer information will be shown in AV2 mode. Press the BAND button, and the OSD of the changer information will be "ON" or "OFF".

### ***Seek (Manual) UP/DOWN***

The Seek Up/Down feature allows the user to manually tune to a radio station. Press and hold the SEEK button for 2 seconds to access the Seek Mode. To use this button for Manual Tuning, press this button for 2 seconds and then tune the frequency by channel spacing. If a button is not pressed for 5 seconds, the mode will change back to SEEK mode.

- **Memory:** In order to memorize the station as tuned manually, first press the SEEK UP/DOWN buttons and press and hold this button after finding the station. Then, the desired station should be memorized.

### ***Preset Radio Station SCAN***

***(P.S/BSM button on the display or P.SCAN button on the remote control.)***

With the Preset Scan feature, the unit will scan the desired band for tunable stations. First, select the desired band (FM1/FM2/FM3/AM1/AM2) and press the PS/BSM button for 2 seconds. The tuner will then search until a station of sufficient signal strength has been found. The unit will store 30 stations in the band automatically starting at the strongest signal strength.

Press this button quickly and stations will be automatically stored. When seeking for a desired station, press this button once, and the Tuner will stop at the station.

### ***Stored Radio Station Deletion***

Locate the radio station as shown on the monitor by using the direction buttons (◀, ▶, ▲, ▼).

- **Delete:** First select a stored station to be deleted as shown on the display. Then press the DELETE button to erase it from stored memory.

## TV Operation

### ***Seek (Manual) UP/DOWN***

The Seek Up/Down feature allows the user to manually tune to a TV channel. Press and hold the SEEK button for 2 seconds to access the Seek Mode. To use this button for Manual Tuning, press this button for 2 seconds and then tune the frequency by channel spacing. If a button is not pressed for 5 seconds, the mode will change back to SEEK mode.

- **Memory:** In order to memorize the TV channel as tuned manually, first press the SEEK UP/DOWN buttons and press and hold this button after finding the station. Then, the desired TV channel should be memorized.

### ***Preset TV Channel Scan***

***(P.S/BSM button on the display or P.SCAN button on the remote control.)***

This button is used to scan through preset TV channel. First select the desired TV band (TV1 or TV2) you would like to scan **and then** press and release either the P.S/BSM button or the P.SCAN to begin scanning within the selected TV Band for the desired TV Channel. The TV Tuner will search for stations of significant signal strength and store up to 30 of these stations automatically.

### ***Stored TV Channel Deletion***

Locate the TV Channels as shown on the monitor by using the direction buttons (◀, ▶, ▲, ▼).

- **Delete:** First select a stored TV Channels to be deleted as shown on the display. Then press the DELETE button to erase it from stored memory.

### ***Fine Tune***

Press this button about 2 seconds or longer to tune the TV channel for a fine tuned picture.

## TROUBLESHOOTING

	Problem	Cause	Measure
G E N E R A L	Power does not turn ON	Fuse is blown	Replace the blown fuse with a fuse of the same amperage. If the fuse blows again consult your AUDIOVOX dealer.
		Incorrect wiring	Consult your AUDIOVOX dealer.
	Nothing happens when buttons are pressed.  Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button on the RT BOX unit and main unit for about 2 seconds with a thin instrument.  NOTE: When the reset button is pressed the ACC power will be turned OFF. TV/Radio stations, and titles stored in memory are cleared.
	The remote control does not work.	Sunlight is interfering with the IR Sensor.	Sunlight is interfering with the IR Sensor on the front of the main unit, causing the remote control not to work.
		The batteries of the remote control are either discharged/ not installed or installed incorrectly.	Check the batteries of the remote.
T V	The image is not displayed.	The parking brake is not pulled or the parking brake wire is not connected.	Check that the parking brake is applied.
	The display is dark.	The brightness control is too low.	Adjust the brightness properly.
		Inadequate operating temperatures.	The temperature inside the vehicle may be 0 or less. Allow the vehicle to warm up.
	The color of the display is light or a shade of color is not good.	The headlight of the vehicle is lit.	The display is made darkened at night to prevent glare.
		The color is not adjusted adequately.	Check that COLOR and TINT are adjusted properly.
	When the VTR or other video source is connected the image is disturbed.	Improper NTSC/PAL setting.	Set the NTSC/PAL properly according to the VTR or other video source.

D V D	When the TV tuner is connected the image gets unclear.	Bad reception	A radio wave may not reach sufficiently due to obstruction by mountains or buildings. Check it again at a place where a radio wave can be received properly.
	The TV tuner has a ghost image	Bad receiving condition	A radio wave may not reach sufficiently due to obstruction by mountains or buildings. Check it again at a place where a radio wave can be received properly.
	The TV tuner has spots or stripes in the image.	Presence of jamming	System is subjected to interference from automobiles, power cables, neon sign, and so forth. Check it again after changing location.
	The TV tuner has spots or stripes in the image.		This is not a failure, but a phenomenon peculiar to a liquid crystal panel (The LCD panel is produced according to technology with very high precision. Note that, though there are effective Pixels of 99.99% or more, pixel missing or normally lit pixels account for 0.01%)
	Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
P L A Y E R	Sound skips or is noisy	Compact disc is dirty.	Clean the compact disc with a soft cloth.
		Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
	Sound is bad right after power is turned on.	Droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
	Disc cannot play and the words "PARENTAL VIOLATION" are displayed.	The view is limited.	Release the view limitation or change the parental level. See the subsection "Setting up the parental level"





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