



AXV820

INSTALLATION/OWNER'S MANUAL

DVD Multimedia Receiver whit 6.2" Touch Screen Display

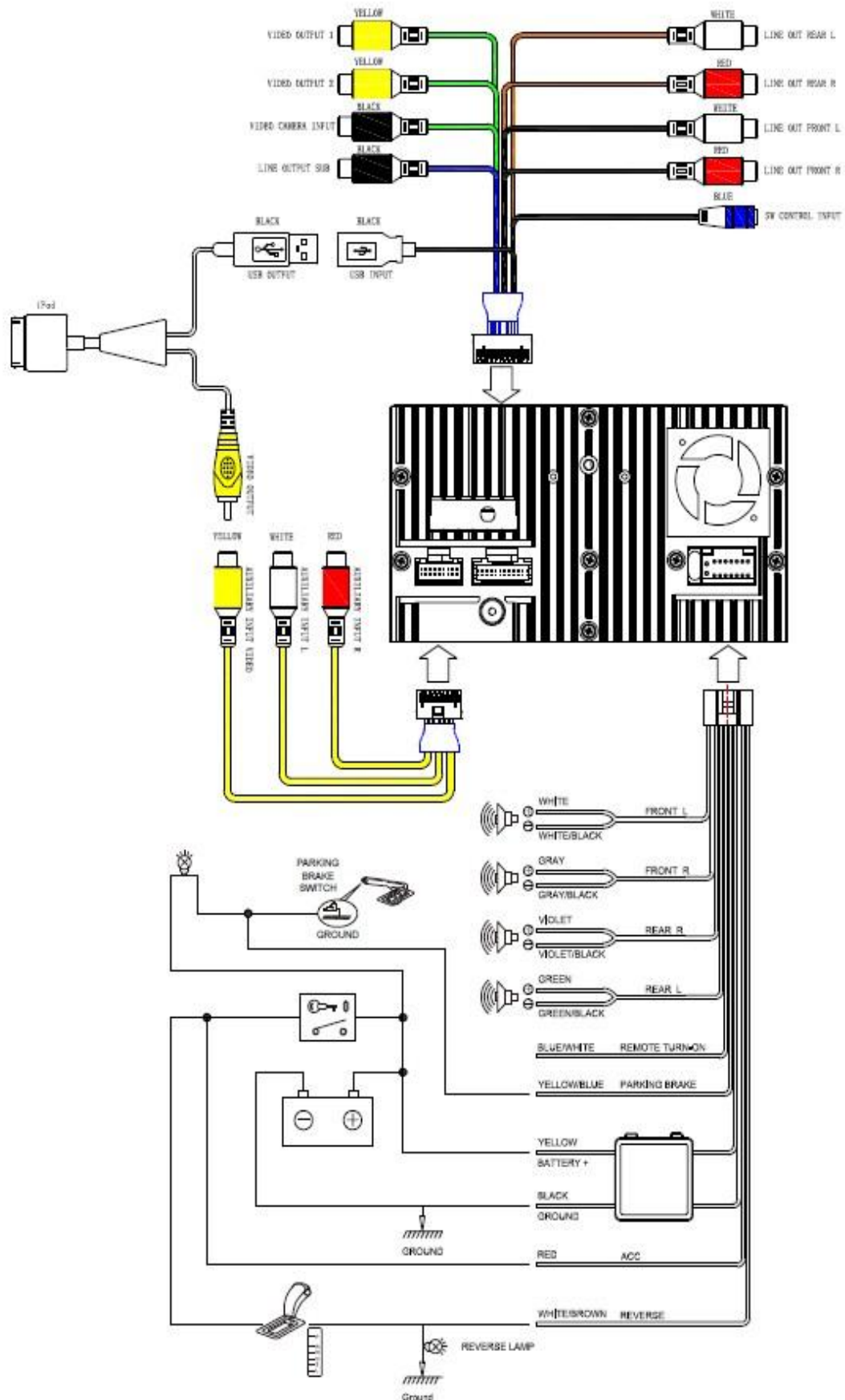


Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.



XDVD3201 Wiring Diagram - Inputs/Outputs





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This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.



Table of Contents

Thank you for purchasing a Dual Multimedia unit. We hope you will find the instructions in this user manual clear and easy to follow. If you take a few minutes to look through it, you will learn how to use all the features of your new unit for your maximum enjoyment.

After you have finished reading the instructions, please keep this manual in a safe place for future reference.

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NOTE: 1. Certain description in the book may differ from the actual unit.
2. Some pictures or icons in the book may differ from actual display.
3. Specifications subject to change without notice.



WARNING

Upon installation of this Monitor/DVD player ("unit") into a vehicle, the driver of the vehicle must not operate this unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

Several states prohibit the installation of monitors/DVD players if the screen is visible from the driver's seat. If you reside in a jurisdiction which has enacted such a law, this unit must not be installed so that the screen is visible from the driver's seat. When installing this unit in the front console/dashboard, the unit must be positioned so that it is facing the front passenger seat only. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

This unit is designed so that it may be operated only when the vehicle is in "Park" and the parking brake is fully engaged. To this end, this unit includes a parking brake lock-out feature which prohibits the unit from operating if the vehicle is not in "Park" and/or the parking brake is not fully engaged. When installing this unit, the installer must connect the parking brake detect wire ("Yellow-Blue Lead") to the parking brake mechanism in order to make the parking brake lock-out feature could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

Once the parking brake lock-out feature is installed, the owner/user must not attempt to disrupt/neutralize the parking brake lock-out feature by (a) partially engaging the parking brake and/or (b) purchasing/using any device or unit designed to send necessary brake signals to the unit. Failure to follow these instructions could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

When operating this unit, keep the unit's volume level low enough so that the vehicle's occupants can hear traffic-related sounds such as police and emergency vehicles. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.



Safety Information

Please read all instructions carefully before attempting to install or operate.

Due to its technical nature, it is highly recommended that your DUAL XDVDN9131 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

To prevent damage or injury:

- Make sure to ground the unit securely to the vehicle chassis ground.
- Do not remove the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or the possibility of water splashing.
- Do not subject the unit to excessive shock.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause the unit to malfunction.
- To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
- Use only the provided hardware and wire harness.
- You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
- If you experience problems during installation, consult your nearest DUAL dealer.
- If the unit malfunctions, reset the unit as described on page 11 first. If the problem still persists, consult your nearest DUAL dealer or call tech assistance @ 1-866-382-5476.
- To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth, or volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the printing.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm (AWG18) or more to prevent voltage drops.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Precaution

To avoid the risk of injury or accident, read the following precautions before installing and operating the unit.

On Safety

Comply with your local traffic rules and regulations.

- While driving
 - ☞ You must not watch or operate the monitor. It may distract you and cause an accident. Park your car in a safe place to watch and operate the unit.
- While operating
 - ☞ Do not insert your fingers or foreign object into the unit's loader while a CD/DVD is playing. It may cause injury or damage to the unit. Keep small articles out of the reach of children.
 - ☞ Keep small articles out of the reach of children.
- If your car was parked in direct sunlight this can result in a high increase in temperature inside the car, please allow the unit to cool down before operating it.

Preventing Accidents

The video appears only after you park the car and set the parking brake. When the car is in motion, the video will automatically prompt a "Caution" screen for your safety.

CAUTION!!!
IT'S UNLAWFUL TO OPERATE A VEHICLE WHILE VIDEO IS DISPLAYED IN THE
DRIVERS VIEWING AREA.
ENGAGE EMERGENCY BRAKE TO ENJOY VIDEO

Do not watch the monitor while driving. You may cause a traffic accident if your attention is distracted by the monitor.

- ☞ When you drive, watch the surroundings carefully for your safety. Do not entirely depend on the back camera.
- When backing up your car, be sure to look back for your safety.

Damage Screen

- Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

Display Brightness

When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.

DISC Care

Be careful not to splash juice or other soft drinks onto the unit or discs. Make sure that discs are clean and free of dust.

Playable Discs

The following types of discs/files are compatible:

- CD-ROM (ISO), CD-R, CD-RW, DVD+R/RW, DVD-R/RW
- CD-DA, DVD Video
- MP3 data
- WMA data
- JPG images
- AVI format
- MPG format

The following types of discs/files are not compatible:



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- WMA files that are protected by DRM (Digital Rights Management)
 - WMA lossless format
 - Discs recorded with Track At Once or packet writing
 - MP3 PRO format
 - MP3 playlists
 - WAV format

Some recordable DVDs and CDs may be incompatible with this unit, depending on media type and recording method.

DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the unit plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

The unit will play discs labeled "All".

DVD region codes:

- 1 - USA, Canada
- 2 - Japan, Europe, South Africa, Middle East
- 3 - Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
- 4 - Australia, New Zealand, Mexico, South America
- 5 - Eastern Europe, Russia, India, Africa
- 6 - China





Preparation

Please read all of the instructions below before beginning your installation. We recommend that you have your unit installed by an experienced car audio/navigation system installer.

IMPORTANT NOTICE: It is very important that you read the **WARNINGS** and **NOTES** in this manual to ensure correct installation and use of your unit.

Features

- 6.2" Digital TFT Display
- DVD/DVD-R/DVD-RW/VCD/CD/CD-R/CD-RW Compatible
- Touch-screen Control with Dynamic Graphic User Interface
- Built-in 45W X 4 output amplifier, 4.1 channel surround sound output.
- Bluetooth with A2DP & Handsfree
- AM/FM Tuner with 48 Memory Presets
- SD Card Slot on Front Panel , Support SDHC-up to 32GB
- USB Port on Front Panel (2.0 High Speed)
- Front and Rear Auxiliary
- Back-up Camera Input
- Steering Wheel Control Ready (Resistor Type)

Tools and Supplies

We suggest using these tools and supplies to install the unit.

- Torx type, flat-head and Philips screwdrivers
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Crimp connections
- Volt meter/test light
- 18 gauge wire for power connections
- 16 – 18 gauge speaker wire
- Heat shrink tubing
- Soldering iron and solder

Warning

1. Only connect the unit to a 12-volt negative ground system.
2. Never install this unit where operation and viewing could interfere with safe driving conditions.
3. To reduce the risk of a traffic accident (except when using the backup camera feature) never use the video display function while driving the vehicle. This may be in violation of local laws.
4. Never disassemble or adjust the unit without the assistance of a professional. For details, please consult your local car stereo/specialty shop.
5. To prevent injury from shock or fire, never expose this unit to moisture or water.
6. Never use irregular discs, the only recommended disc size is a 12cm round disc.
7. To prevent damage to the mechanism inside this unit, avoid dropping the unit.
8. To ensure the touch screen is functioning properly please avoid hard impact to the TFT monitor.
9. Do not change the fuse on the power wire without professional guidance. Using an improper fuse may cause damage to the unit and result in a fire.

Disconnecting the Battery

To prevent a short circuit, turn off the ignition and remove the negative (-) battery cable prior to starting the installation.



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NOTE: If the unit is to be installed in a car equipped with an on-board drive or navigation computer, do not disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.



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Controls and Indicators

Button Operation



① **Eject**

Press to eject disc.

② **Microphone**

③ **Menu**

Press to enter **MAIN** menu, press again to return to previous source.

④ **Mode**

Press to change the current function menu.

⑤⑥ **Power Off/VOL**

Press and hold to turn off the unit.

Press once to power on when the unit is turned off.

Short press while unit is on to mute the volume.

Rotate to adjust the volume.

⑦ **SD Slot/USB Port**

⑧ **Remote Sensor**

⑨ **Front Aux-in Jack**

⑩ **Touch Screen TFT**

⑪ **Reset**

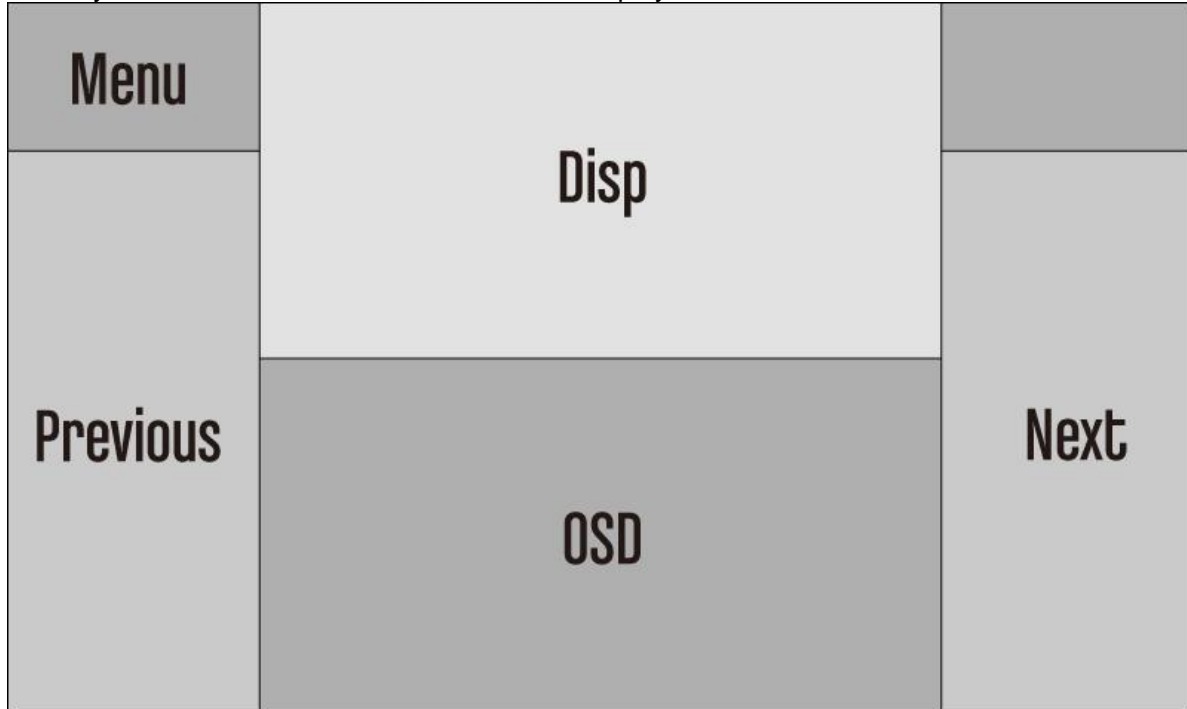
⑫ **Disc Slot**



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Key Areas for the Touch Screen

The key areas are outlined below, for DVD, VCD playback mode and so forth.

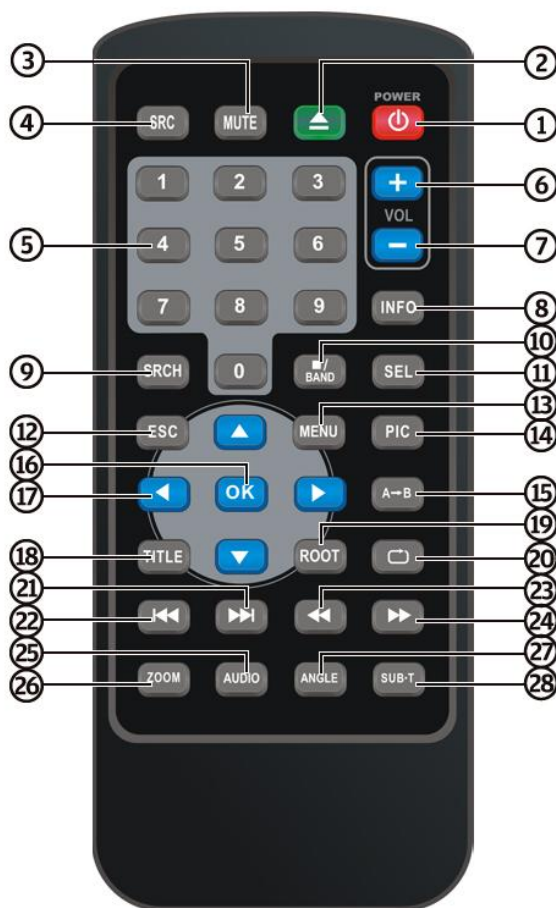




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Remote Control

Remote Control Functions



Name	Ref #	Signal	Function
Power	1		Turn the power on/off
Open	2		Eject Disc
Mute	3		Toggle on/off audio output
SRC	4	SRC	Select source
Numeric button	5	1.2.3.4.5. 6.7.8.9.0	Directly access certain chapter / track / preset station in current band
VOL up	6	VOL+	Increase the volume
VOL down	7	VOL-	Decrease the volume
Information	8	INFO	Display playing information
GOTO search	9	-/--	Position search function on VCD/DVD mode
Stop/Band	10	/ BAND	Select FM/AM band on Tuner mode Stop playback
Select	11	SEL	Enter the audio settings
ESC	12	ESC	Exit the current menu
Menu	13	MENU	Enter the main menu of system
Picture	14	PIC	Adjust the Screen settings



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Repeat A→B	15	A→B	Set start point A and end point B to repeat continually
OK	16	OK	Start or pause playback, confirm the settings
Direction buttons	17		Up/down/left/right to select items for certain setting
Title	18	TITLE	Go back to title while playing DVD
Root	19	ROOT	Enter the main menu of the disc Turn on PBC while playing DVD
Repeat	20		Repeat playback for current chapter
Next	21	▶▶	Select the next chapter/track for playback Search an available radio station by increasing tuning frequency on tuner mode
Previous	22	◀◀	Select the previous chapter/track for playback Search an available radio station by decreasing tuning frequency on tuner mode
Fast Reverse	23	◀◀	Fast reverse the disc content
Fast Forward	24	▶▶	Fast forward the disc content
Audio	25	AUDIO	Change the audio language for disc playback
Zoom	26	ZOOM	Zooming in/out on an image
Angle	27	ANGLE	Play in different angle for a scene (if it is applicable)
SUB Title	28	SUB-T	Language selection for subtitle



TFT Monitor Operation

Rear Camera Mode

When the vehicle is placed in "Reverse", and a rear camera is connected to the unit, the monitor will automatically switch to the camera input source. Please make sure the reverse wire is connected.

Screen Adjustment

"COLOR" "CONTRAST" and "BRIGHTNESS" can be adjusted.

Screen Adjustment Procedure

1. Enter the Screen adjustment mode:

Press the **PIC** button on the remote or go to main menu, then Set-up, then press Screen.

2. Select settings:

Press the (◀▶) buttons on the remote or on the screen when in Set-up Screen, adjust the selected feature to the desired setting.

3. To Exit do not press any button on the remote for 5 seconds or in Set-up Screen press the top left corner to exit:

Parking Brake


1. When the vehicle is stopped and the parking brake is on, the "PARKING Brake" wire must be connected to the parking brake (-) switch in order for the monitor to display video.
2. The Parking brake does not apply when using the reverse backup camera feature.
3. When the "parking brake" is off, the front monitor will display a "Caution" with blue background, preventing the driver from watching video while driving. This is for your safety and to reduce the risk of a traffic accident.


Please see "INSTALLATION SECTION" for installation on the parking brake wire.



Operation Instruction

Power On / Off

Press the **POWER /VOL** button to turn the unit on. You can also turn on the unit by pressing the button () on the remote.

Press and hold the **POWER/VOL** button on the front panel or press the **POWER** button () on the remote to power off the unit.

Source Selection

Press the **MENU** Button on the front panel to change sources: TUNER, DISC, NAVI, CARD, FLASH DRIVE, BT-TEL, F-AUX, R-AUX, SETUP, and STANDBY. The source is displayed on the top left of the screen.

Volume Adjustment

To increase or decrease the volume level, turn the **POWER/VOL knob** on the front panel or press the **VOL+ / VOL-** buttons on the remote control. The volume ranges from “0” to “40”.



Equalizer Setting

The Equalizer Setting allows you to easily adjust your audio system to meet your sound needs. To get the best possible sound quality from your new system, be sure to adjust the settings for the speakers as well.



Accessing the EQ Settings

Press the (**SEL**) button on the remote control or at the bottom of the menu the “EQ” icon.

Selecting an EQ for Adjustment

Press the (/) buttons on the remote or press the **icons on the** front panel once to select an audio setting to be adjusted.

Adjusting an Audio Setting

Press the ( ) buttons on the remote or use the touch screen to adjust the selected feature.

EQ Settings

Audio Function	Settings
EQ	USER
	JAZZ
	POP
	ROCK
BASS	-7 to +7
TREBLE	-7 to +7
FADE	-7 to +7
BAL	-7 to +7
SW	-7 to +7
LOUDNESS	Off or ON

NOTE: The Bass and Treble levels are only adjustable when EQ is on “User” mode.
The Loudness function increases the sound ranges from low levels to high levels.

Exiting the Equalizer Setting

Touch the return arrow on the top right of the screen.

Press the (**SEL**) button on the remote control to exit the Equalizer setting.






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System Reset

To reset the system in case of a halt or other unusual operation, use the tip of a pen to press the **RESET** button located on the front top-left corner of the unit. After the system resets, the unit will restore the settings before it was last powered off.

Mute

The volume can be muted by the following:

1. Press the MUTE button () on the remote to mute the volume from the unit.
2. Press the /VOL knob on the panel.
3. Turning the /VOL knob counter-clockwise on the panel to volume to "0".

NOTE: Press the **MUTE** button on the remote again to restore the volume.
Adjusting the volume or using any of the audio set-up features will cancel the mute function.

Standby

1. On the Main menu press the Standby icon.
2. In standby mode, the screen is turned off with audio output only.
3. In standby mode, touch the screen or press Menu/Navi button to return the screen to normal.



Setup Menu



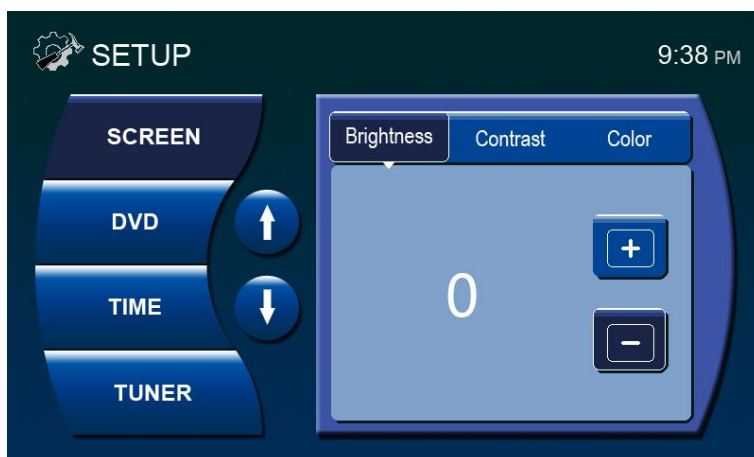
There are three methods to access the **MENU** menu.

- Press the **MENU** button on the front panel.
- Press the **MENU** button on the remote control.
- Touch the **A area (Top left corner)** on the touch-screen.

Note: Touch screen must be used to select menu and adjust settings. The remote arrows cannot be used to select features on screen. The following instructions will show the different ways to access menus and settings.

Screen Setting

Press the **SETUP** icon on the main menu.

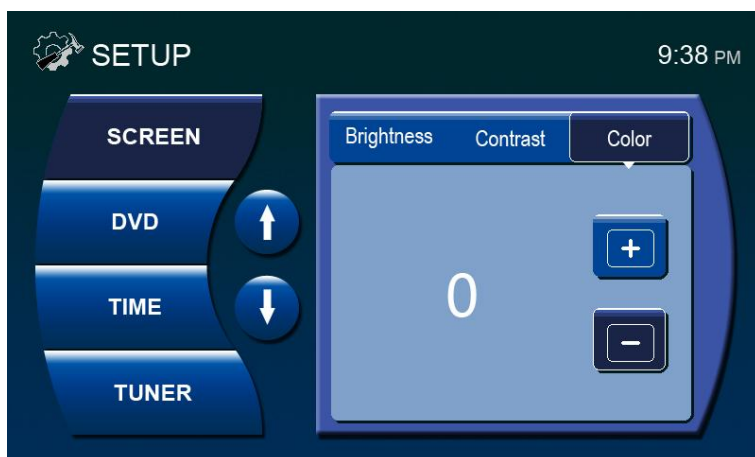
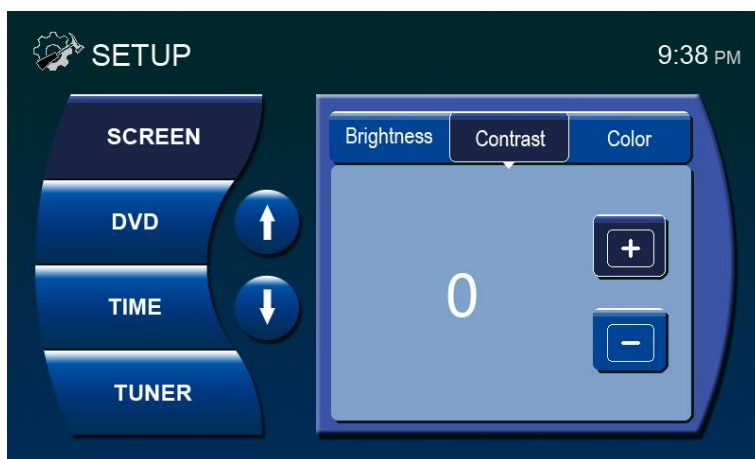
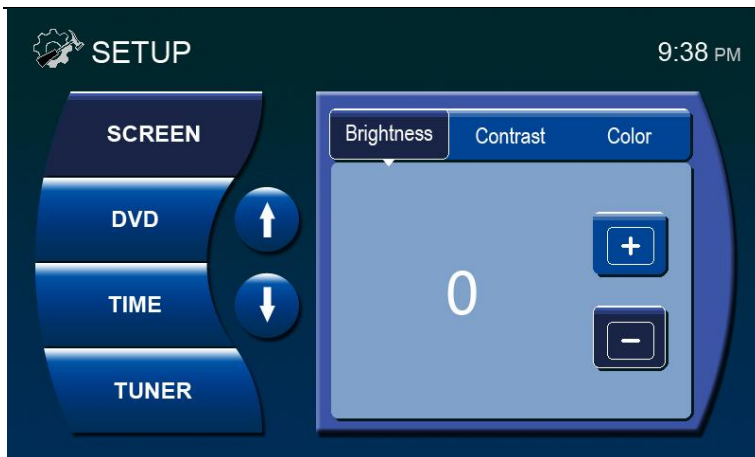


Press the "**SCREEN**" icon while on the Setup menu.

Selecting a Setting for Adjustment

Press directly the options on the screen to select a feature to be adjusted.

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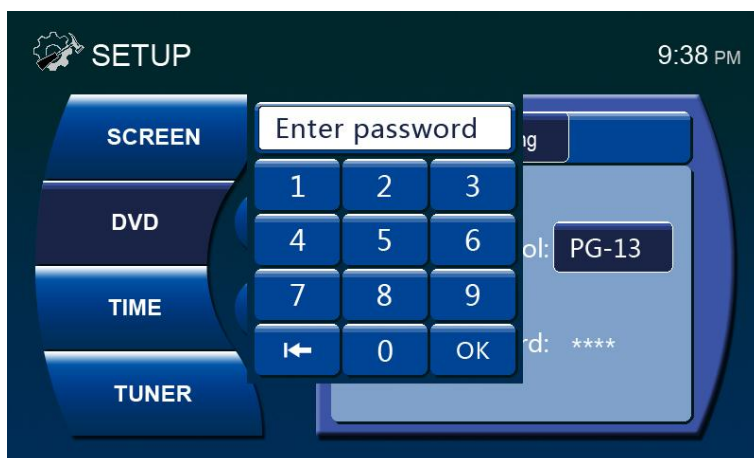
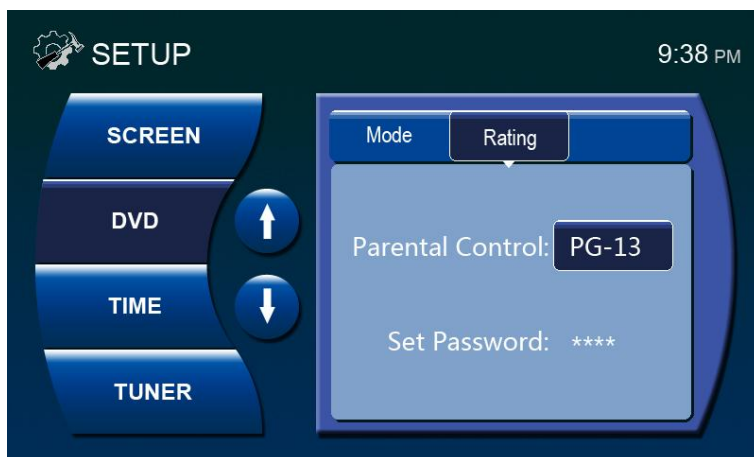
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DVD Setting

Press the **DVD** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.





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Parental Control

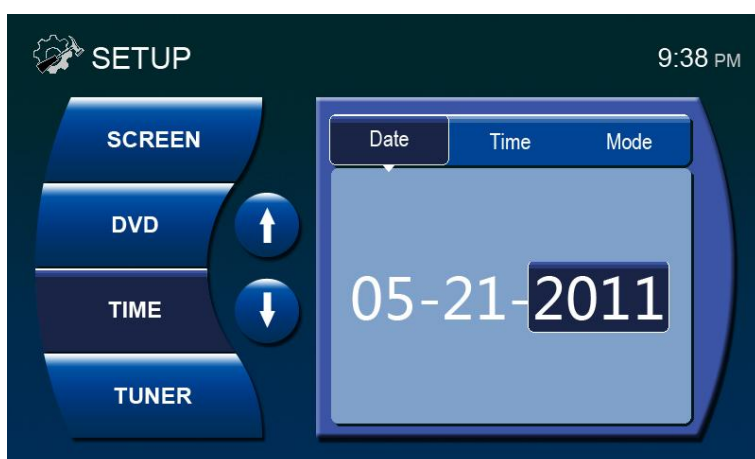
To set the parental control the default password is 8888 you can then adjust your parental guidance. If a new set Password is used you must not forget the new set password, please write down on the manual. Once a new password is set you cannot use the default password or reset the password if forgotten.

Time Setting

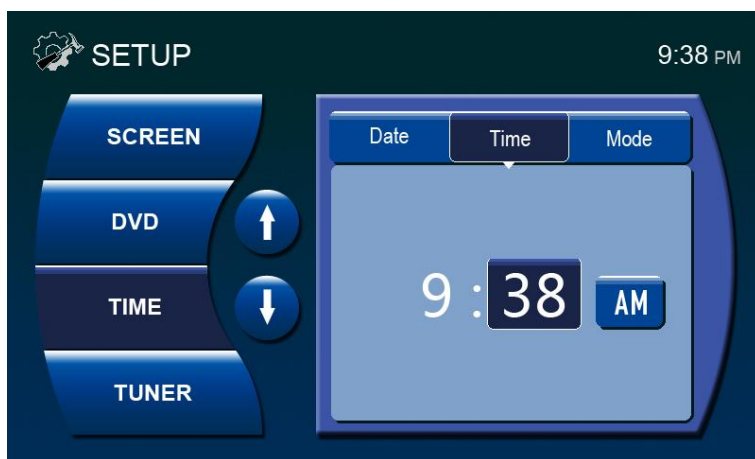
Press the **TIME** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.



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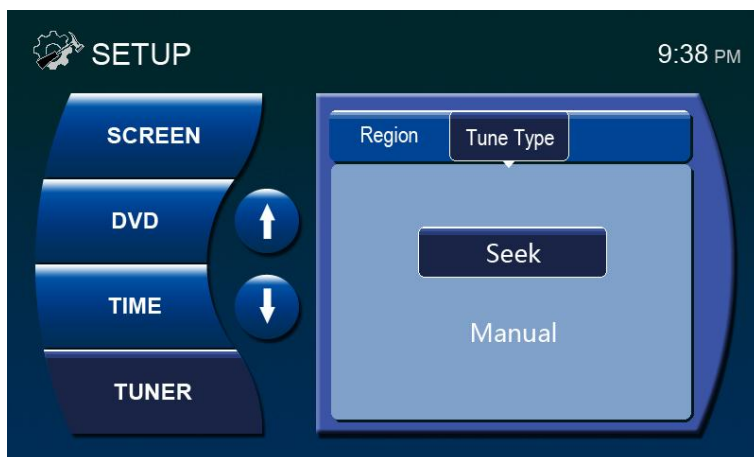
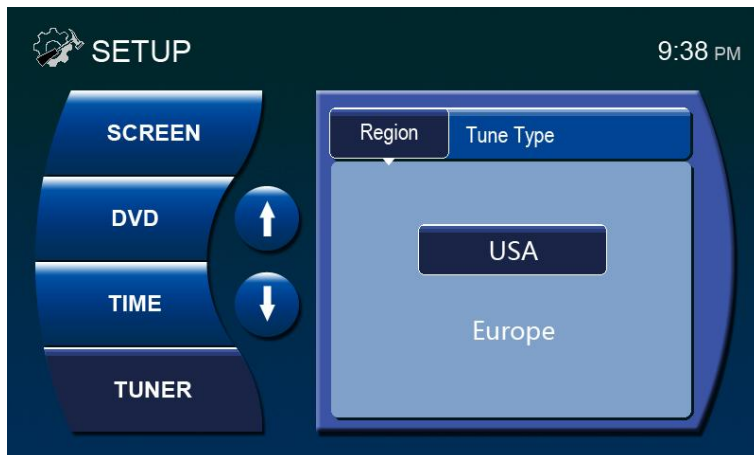
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Tuner Setting

Press the **TUNER** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.



Calibrate Setting

Press the **Calibrate** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.



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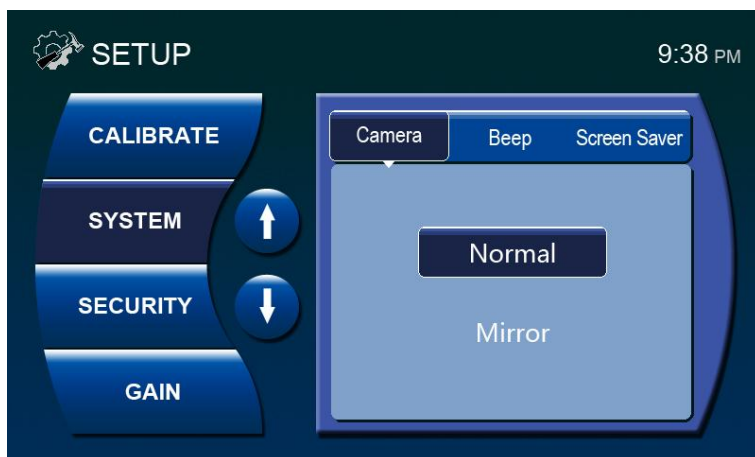


System Setting

Press the **SYSTEM** icon while on the **SETUP** menu.

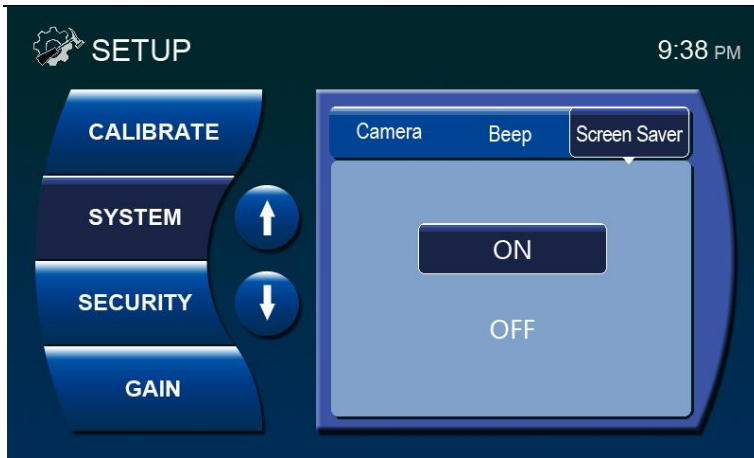
Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.





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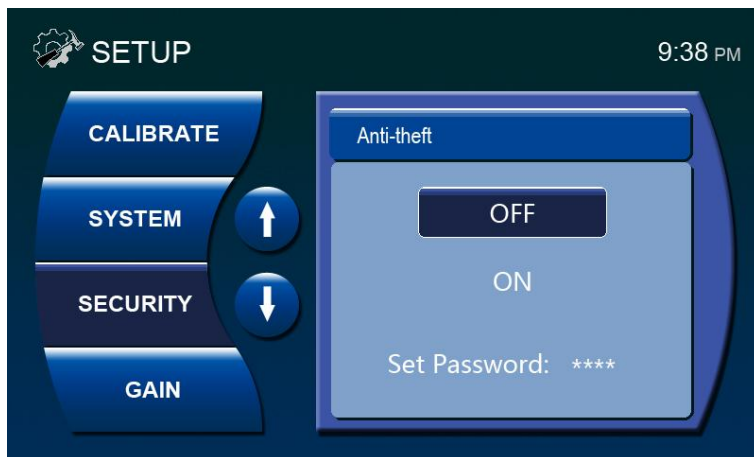


Security Setting

Press the **SECURITY** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.

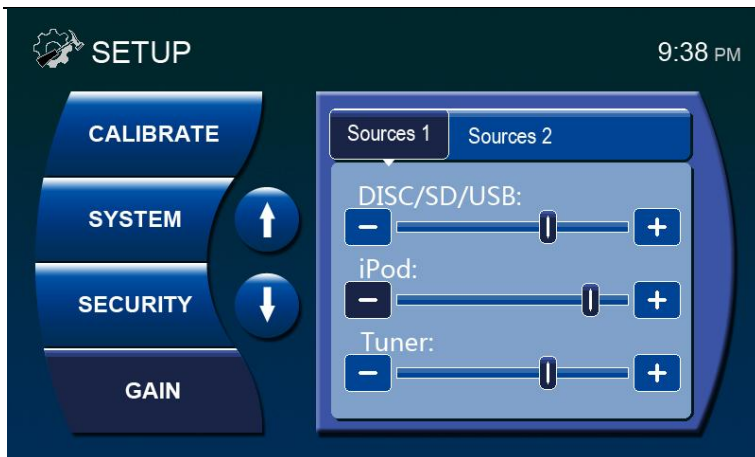


Gain Setting

Press the **GAIN** icon while on the **SETUP** menu

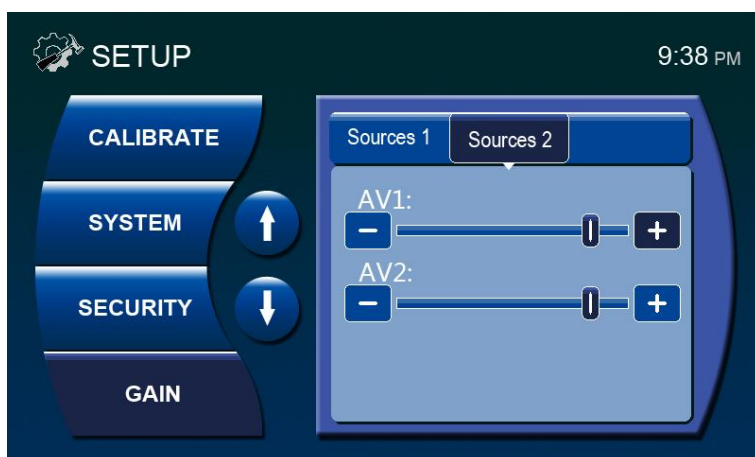


AXV820 OPERATION



Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.



iPod Setting

Press the **TFT** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.



AXV820 OPERATION



Select **Manual**, only operation via ipod is allowed
Select **Full**, only operation via unit is allowed



Select **YES** to activate Video input
Select **No** to active audio input only

Restore Setting

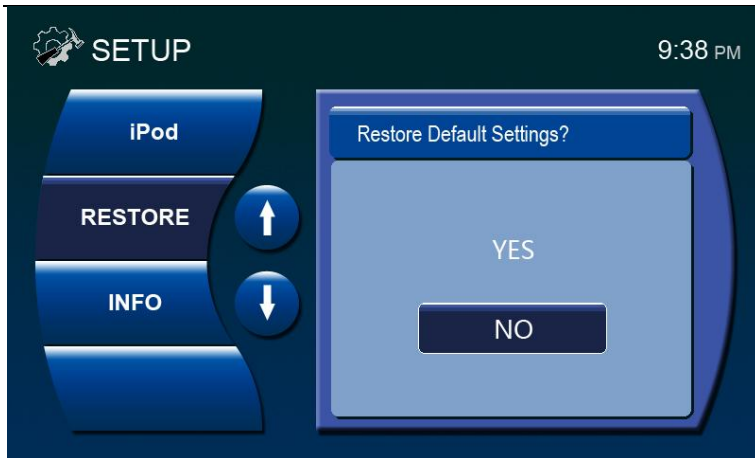
Press the **RESTORE** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.



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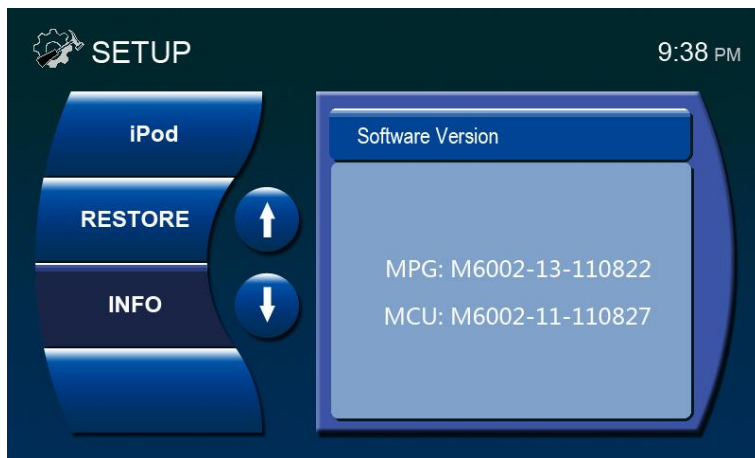


Info Setting

Press the **INFO** icon while on the **SETUP** menu.

Selecting a Setting for Adjustment

Touch directly the options on the screen to select a setting to be adjusted.





Tuner (AM/FM) Operation

Tuner Display



- : Press to turn on or off the volume.
- : Press to seek down. Touch and hold for 3 seconds to scan the previous station.
- : Press to seek up. Touch and hold for 3 seconds to scan the next station.
- : Press to change between FM and AM.
- : Press to change between FM and AM.
- : Press to activate the DX function
- : Press to scan and store all stations in current band automatically.
- : Page down.
- : Page up.
- : Press to scan the stations in the 12 preset channels in the current band.
- : Press to enter iPod menu.
- : Press to enter USB menu.
- : Press to enter SD menu.
- : Press to enter DISC menu.

Switch to Radio Tuner Source

Press the "SRC" control to switch to the **TUNER** source.

Select AM/FM Band

Touch the or button on the screen, or press the BAND button () on the remote control to change between FM and AM.

Auto Tuning

Press the button () on remote control or press and hold the button on the screen to seek up the next available station. Press the button again to stop searching.

Press the button () on the remote control or press and hold the button on the screen to seek down the next available station. Press the button again to stop searching.



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Manual Tuning

Press the ►► button on the remote control or press the ►► button on the screen to up the tuning frequency one step at a time.

Press the ◀◀ button on the remote control or press and hold the ◀◀ button on the screen to down the tuning frequency one step at a time.

Using Preset Stations

12 preset buttons are used to save your favorite stations for each band. First 6 saved stations (P1-P6) for the current band appear on the screen.

You can touch the arrow buttons ↑ or ↓ on the screen to see the other 6 stations.

Saving a Station

1. Select a band (AM/FM), and then select a station.
2. Press and hold a preset (P1-P40) on the right side of the screen for three seconds. The station will then be saved on the selected preset number.

Select a Station

1. Select a band (AM/FM).
2. Touch a preset from (P1-P6) on the right side of the screen.

Auto Store (AS)

Press the AS button on the screen to automatically scan and save all stations in current band.


Program Scan (PS)

Press the PS button on the screen to scan through the stations in the 12 preset channels in the current band.

Press any button to stop scanning and listen to the selected station.

DX

When the Local function is on, only radio stations with a strong signal are found. When the Local function is active, "LOC" appears on the screen.

Press  to activate the DX function.



DVD Player Operation

NOTE: When properly installed, DVD video cannot be displayed on the main screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is in motion, the screen will display “caution” with a blue background. Rear video output, (if used) will operate normally.

Insert/Eject Disc

Inserting a Disc


When inserting a DVD disc, DVD mode will be enabled and disc will begin to play.

NOTE: If Parental Lock (Rating) is activated and the disc inserted is not authorized, a 4-digit code must be entered or the disc will not play (see “RATING (Parental Lock) Menu”).


You cannot insert a disc if there is already a disc in the unit or if the power is off.

NOTE: CD-R/RW, DVD-R/RW, DVD+R/RWs will not play unless the recording session is closed.

Ejecting a Disc

Press the button  on the unit to eject the disc. The unit will automatically revert to Tuner mode at the same time.

Reset the Loading Mechanism

If the disc loads abnormally or does not play properly, press and hold the button  on the unit to reset the loading mechanism. The disc should be ejected and resume to normal operation.

Accessing DVD Source

To switch to DVD source when a disc is already inserted, press the “**SRC**” button on the remote control until the DVD source appears on the top of the screen.

On the front panel press Menu and select the “Disc” icon.













Using the Touch-Screen Controls







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- : Press to stop
- : Press to fast reverse
- : Press to Play/Pause
- : Press to fast forward
- : Press to do other settings
- : Press to go back to the title of the disc
- : Press to change languages
- : Press to display Sub-title
- : Press to do the EQ setting
- : Press to activate/deactivate Repeat Single/ Repeat Folder/Repeat All
- : Press to select Title, Chapter, and Time.
- : Press to do other settings

Controlling Playback

Stop Playback

Press the stop button  on the screen or press the **(STOP)** button on the remote control to stop the DVD playback; press the play/pause button  on the screen or the **(OK)** button on the remote control to resume play.

Pause Playback

Press the play/pause button  on the screen to pause or to resume play.

Accessing the DVD Menu

1. You can touch the area E (middle of screen), and then press the MENU area to access the main DVD menu.
2. Use the arrow buttons on the remote control to select a title from the menu.
3. Press the **(TITLE)** button on the remote control to select a different title for playback.
4. Press the **(OK)** button on the remote control or touch the item directly to confirm your selection and begin playback.





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Moving Through Chapters

Press the (▶▶) button on the remote control to advance to the next chapter on the DVD.
Press the (◀◀) button on the remote control to move to the previous chapter on the DVD.
Touch the right side of the screen to advance to the next chapter, or touch the left side of the screen to move to the previous chapter.


Fast Forward/Fast Reverse

Press the (▶▶) button on the remote control or press the  of area E on the screen to fast forward. Continue pressing to increase the rate from "X 2" to "X 4", "X 8", and "X 16".

Press the (◀◀) button on the remote control or press the  of area E on the screen to fast reverse. Continue pressing to decrease the rate from "X 2" to "X 4", "X 8", and "X 16".

GOTO Search

During DVD or VCD playback, use the following steps for the "GOTO" feature to access a specific location on the disc:

1. Press the (-/-) button on remote control or touch Area F on the screen and then press  icon.
2. Press the (▲/▼) buttons on the remote control to select a category.
 - For DVD mode, you can choose Time or Title/ Chapter search.
 - For VCD mode, press the (-/-) button to choose between Track Search, Disc Search and Exit.

Search	
Title	___ / ___
Chapter	___ / ___
Time	__ : __ : __

Track Search	
Time	__ : __ : __
Track	___ / ___

Disk Search	
Time	__ : __ : __
Track	___ / ___

DVD Search

Time – Go to specific time in current title

Title/Chapter – Go to specific title or chapter

VCD Track Search

Time – Go to specific time in the current track

Track – Go to specific track

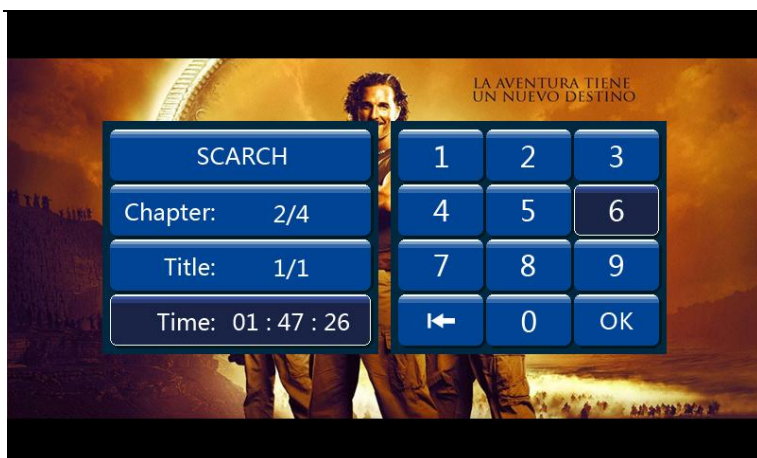
VCD Disc Search

Time – Go to specific time on disc

Track – Go to specific track



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3. Enter a Time/Track number into the field using the numeric keypad on the remote control or on the screen.
4. Press the **OK** button on the remote control or on the touch screen to go to the specified location on the disc.
5. Press the (-/-) button on the remote control again or touch the OK icon on the screen to exit.

Direct Chapter / Track Selection

During DVD, VCD and CD playback, you can use the numeric keypad on the remote control to access a track directly.

Viewing an Alternate Picture Angle (DVD Only)

Some DVDs contain scenes that have been shot from different angles. For DVDs recorded with multiple angles, press the **(ANGLE)** button on the remote control to toggle available angles.

Zooming

Press the **ZOOM** button on the remote control to enlarge and pan through the video image using the following options: "Q1", "Q2", "Q3", and "OFF".

Multi-Language Discs (DVD Only)

Changing Audio Language

If you are watching a disc recorded in multiple languages, press the **(AUDIO)** button on the remote control to choose a language. You also can touch area E, and then press the **AUDIO** button.

NOTE: During VCD playback, press the **(AUDIO)** button on the remote control to choose between Left Channel, Right Channel, and Stereo.

Changing Subtitle Language

If you are watching a disc that contains multiple languages subtitles, press the **(SUBT)** button on the remote control to choose the language in which you would like the subtitles to appear. You also can touch area E, and then press the **SUB-T** button.

Playback Information

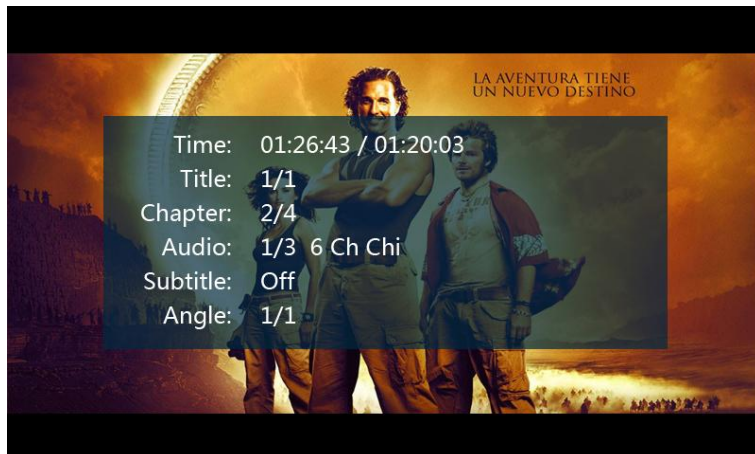
During DVD and VCD playback, press the **(INFO)** button on the remote control or touch area B to display playback information on the screen, this includes the media playing and current playback time.



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DVD Playback Information

The following information is displayed at the middle of the screen during DVD playback:



①: Indicates the current source playing.

②③: Indicates the playback time of the current title.

④: Indicates the subtitle status.

⑤: Indicates the audio channel

⑥: Indicates velocity

⑦: Indicates angle

⑧: Indicates chapters on the DVD and which chapter it is currently playing.

⑨: Indicates the number of titles on the DVD and current title it is currently playing.

VCD Playback Information

The following information is displayed at the middle of the screen during VCD playback:



①: Indicates the Current source playing.




②③: Indicates the playback time of the current title.

④: Indicates the tracks on the VCD and current track that is currently playing.




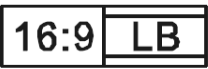



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General Disc Information

Symbol	12cm Disc Properties	Max Play Time
	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
	Single side single layer	74 minutes

Disc Symbols

Symbol	Meaning
	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
	Number of subtitle languages available on the disc (maximum of 32).
	Number of angles provided (maximum of 9).
	Aspect ratios available. "LB" stands for Letter Box and "PS" stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
	Indicates the region code where the disc can be played. <ul style="list-style-type: none">• Region 1: USA, Canada, East Pacific Ocean Islands• Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East• Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia• Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania• Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia• Region 6: Mainland China• ALL: All regions



CD/MP3/WMA/JPEG Operation

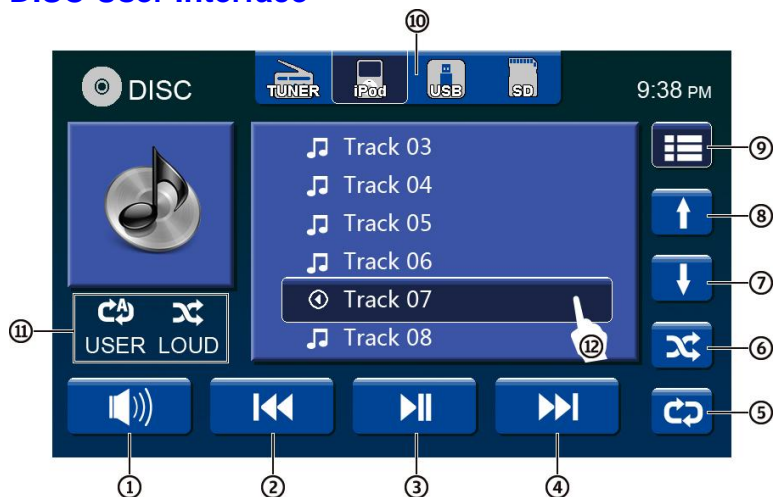
Instructions for Insert/Eject, Play/Pause, Stop Playback, Track Selection, Fast Forward/Fast Reverse, Scan, and Random Play are the same for DVD, CD and MP3 operation. Please see the DVD Player Operation section for information about these topics.

The file naming formats listed below are compatible with this unit:

- ISO 9660 – file name: 12 characters, file extension: 3 characters
- ISO 9660 – file name: 31 characters, file extension: 3 characters
- Joliet – 64 characters

If the file or folder name does not comply to ISO 9660 file system standards, it may not be displayed or played back correctly.

DISC User Interface



- ① : Press to do the EQ setting
- ② : Press to play previous track
- ③ : Press to Play/Pause
- ④ : Press to play next track
- ⑤ : Press to activate/deactivate Repeat Single/Folder Repeat/Repeat All
- ⑥ : Press to activate/deactivate Shuffle Mode
- ⑦ : Next page/set
- ⑧ : Previous page/set
- ⑨ : Press to go back to the playlist
- ⑩ : Press to enter other function menu (Tuner, iPod, USB, SD)
- ⑪ : Current information

Playing CD Files

After inserting a CD disc, the files will play in the sequence of the directory. During playing back,



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you can press the numeric button on the remote control or press a track on the screen to play.

MP3/WMA Discs

This player allows you to playback MP3/WMA files recorded on CD-R, CD-RW, DVD+R/RW and DVD-R/RW. For CD-RW discs, please make sure to use a slow speed write and not the fastest speed in order to prevent improper disc writing.

When recording MP3s up to the maximum disc capacity, disable additional writing. Please use the "Disc at once" setting.

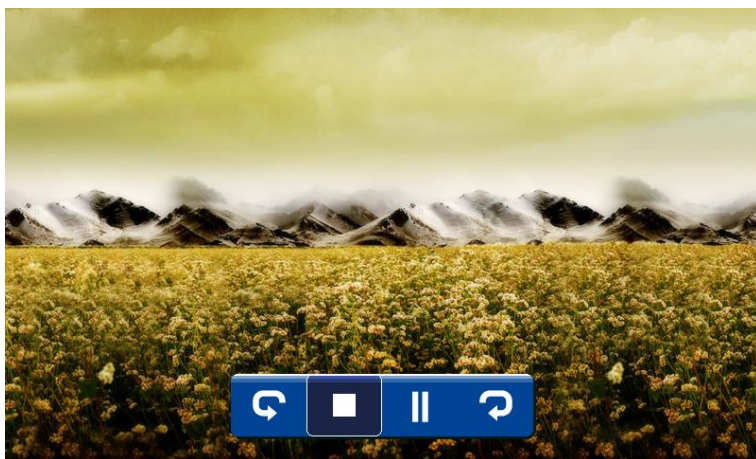
The touch keys for CD/MP3/WMA playback are described below



Playing MP3/WMA Files

After inserting a MP3/WMA disc, files will play in the sequence of the directories/folders. While playing back, you can press the numeric button on the remote control or touch the selected track you want to play.

JPEG Discs



: Flip the current image clockwise



: Stop



: Play/Pause



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: Flip the current image counter-clockwise



iPod Operation

Accessing the iPod Menu

1. To switch to **iPod** menu, press the **Menu** button on the front panel and press the **iPod** icon or press the **(SRC)** button on the remote control until the **iPod** icon appears at the top of the screen.

NOTE: 1. Make sure the USB cable is connected with a iPod device.










2. Select the Main menu, and then touch the **iPod** icon to select **iPod** as your source.

3. Please enter iPod setting to set the status before operate belows

iPod Instructions

The touch keys on the screen for **iPod** playback are described below:

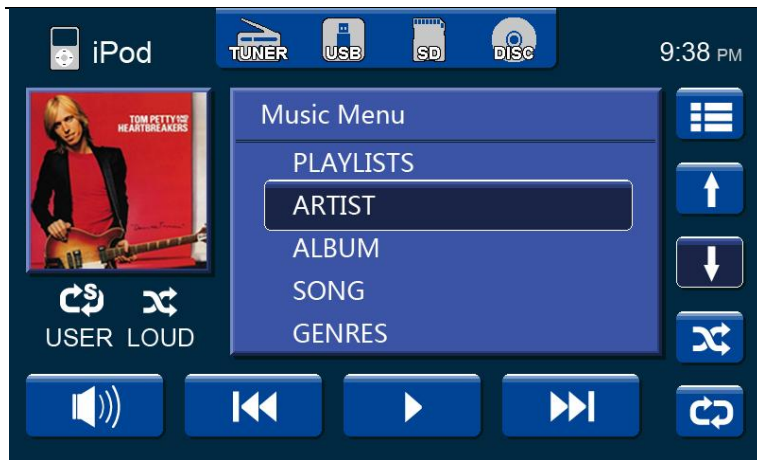


- : Press to do the EQ setting
- : Press to play previous track
- : Press to Play/Pause
- : Press to play next track
- : Press to activate/deactivate Repeat Single/ Repeat Folder/Repeat All
- : Press to activate/deactivate Shuffle Mode
- : Next page/set
- : Previous page/set
- : Press to go back to the playlist

Note: For other definitions, please go to CD/MP3/WMA/JPEG Operation as reference.




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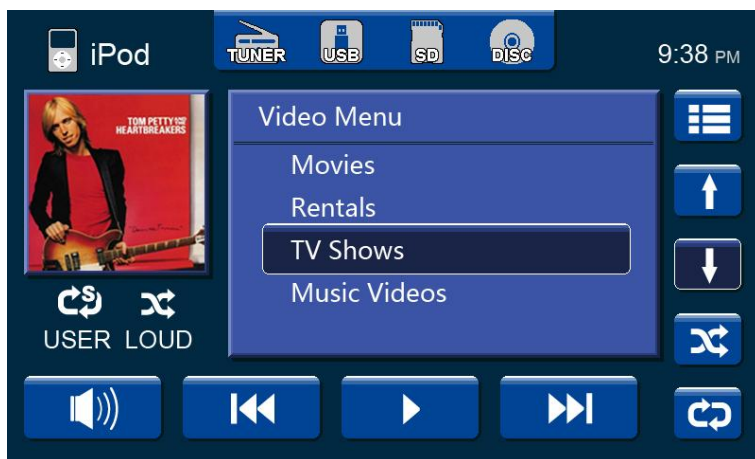




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When playing iPod video, press the upper right corner of the screen first , then, press  back to Video Menu.





SD Operation

Accessing SD Source

1. To switch to **SD** menu, press the **Menu** button on the front panel and press the **SD** icon or press the **(SRC)** button on the remote control until the **SD** icon appears at the top of the screen.

NOTE: Make sure the SD card is inserted properly into the unit.

2. Select the Main menu, and then touch the **SD** icon to select **SD** as your source.

SD Instructions

The touch keys on the screen for **SD** playback are described below:



- : Press to do the EQ setting
- : Press to play previous track
- : Press to Play/Pause
- : Press to play next track
- : Press to activate/deactivate Repeat Single/ Repeat Folder/Repeat All
- : Press to activate/deactivate Shuffle Mode
- : Next page/set
- : Previous page/set
- : Press to go back to the playlist

Note: For other definitions, please go to CD/MP3/WMA/JPEG Operation as reference.



USB Operation

Accessing USB Source

1. To switch to **USB** menu, press the **Menu** button on the front panel and press the **USB** icon or press the **(SRC)** button on the remote control until the **USB** icon appears at the top of the screen.
NOTE: Make sure the SD card is inserted properly into the unit.

2. Select the Main menu, and then touch the **USB** icon to select **USB** as your source.

SD Instructions

The touch keys on the screen for **USB** playback are described below:



- : Press to do the EQ setting
- : Press to play previous track
- : Press to Play/Pause
- : Press to play next track
- : Press to activate/deactivate Repeat Single/ Repeat Folder/Repeat All
- : Press to activate/deactivate Shuffle Mode
- : Next page/set
- : Previous page/set
- : Press to go back to the playlist

Note: For other definitions, please go to CD/MP3/WMA/JPEG Operation as reference.



Troubleshooting

Problem	Cause	Corrective Action
GENERAL		
Unit will not power on	Radio Fuse blown	Install new fuse with correct rating
	Car battery fuse blown	Install new fuse with correct rating
	Illegal operation	Press the RESET button located at the top left corner of the front panel
Remote control does not function	Battery depleted	Replace battery with new one
	Battery installed incorrectly	Remove battery and install correctly
No/low audio output	Improper audio output connection	Check wiring and correct
	Volume set too low	Increase volume level
	Improper "MUTE" connection	Review wiring diagram and check "MUTE" connection
	Speakers damaged	Replace speakers
	Heavily biased volume balance	Adjust the channel balance to the center position
	Speaker wiring is in contact with metal part of car	Insulate all speaker wiring connections
Poor sound quality or distortion	Unauthorized disc is in use	Use original copy
	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker connections
Unit resets itself when engine is off	Incorrect connection between yellow memory wire and positive battery wire	Check wiring and correct
TFT MONITOR		
No Video playback	Incorrect connection to parking brake wire	Check wiring and correct
	PRK SW is activated and parking brake is not engaged	Stop vehicle in safe place and apply parking brake
Flashing image or interference appears on screen	DVD is not compatible with current unit system settings	Change setup to accommodate disc
	Improper video signal connections	Check wiring and correct
Prolonged image or improper height/width ratio display	Improper aspect ratio setup	Use correct aspect ratio setting
TUNER		
Weak station searching	Auto antenna is not fully extended or not properly connected	Connect the auto antenna control cable properly
	Radio reception is poor.	Location can have weak radio signal, move to another location.
	LOCAL function is activated	Turn LOCAL function off
DISC		
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one
Disc does not play back	Disc is warped or scratched	Use a disc that is in good condition



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	Disc is dirty or wet	Clean disc with soft cloth
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change Parental Lock settings to allow such restriction
	Disc region code is not compatible with unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
Image blurred, distorted, or dark	Disc is illegally copied	Use original disc
PBC cannot be used during VCD playback	PCB is not available on the disc	
No repeat or searching while playing VCD	PCB is on	Turn PCB off
MP3		
Interruption occurred during playback	Disc is dirty or scratched	Clean disc or replace
	File is damaged/bad recording	Recreate disc with good files
Incorrect playback message displayed	Message is longer than LCD can display	Rename shorter.

Error Messages

Message Displayed	Cause	Corrective Action
Loading	Disc is being read	
No Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
	Disc not present in loading compartment	Insert disc
Bad Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
Unknown disc	Disc format is not compatible with this unit	
Region Error	DVD is not compatible with region code of unit	
Error	illegal mechanism operation	Press & hold EJECT key for 5 seconds to reset loading mechanism

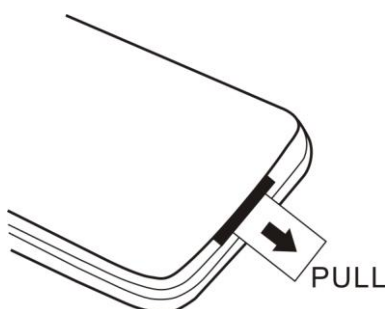


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Remote control

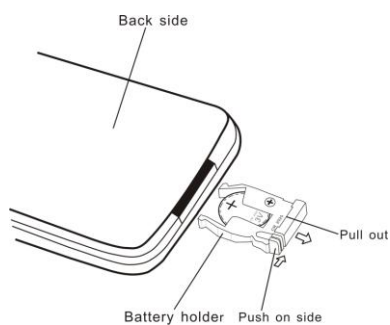
Remote control does not function	Battery is covered with insulation tape	Pull out the insulation tape
	Battery depleted	Replace battery with new one
	Battery installed incorrectly	Remove battery and install correctly

1. When using the remote for the first time, you must pull out the insulation tape.

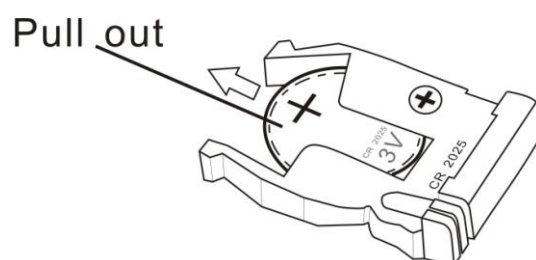


2. Remove the battery if the remote control is not used for a month or longer. If the battery is depleted remove and dispose of the old battery immediately. Do not store the battery with metallic materials.

3. Inserting/Replacing the Battery:
Remove the battery holder



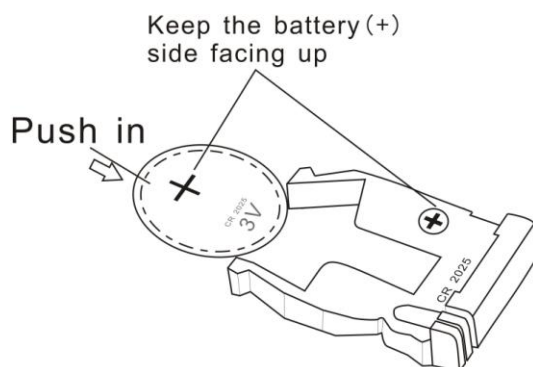
Remove the battery from the battery holder





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Install the battery



Insert the battery holder

NOTE: Only use one CR2025(3V) lithium battery.

Danger of an explosion if battery is incorrectly replaced. Replace only with the same or equivalent type of battery. Do not recharge, disassemble, heat or dispose of the battery in fire.

Keep batteries away from children to avoid the risk of accident.

Suggestions

1. Only use a clean silicone cloth and neutral detergent to clean the front panel or monitor's screen. Using a rough cloth and non neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Keep away from water and other liquids.
3. If the temperature inside the unit gets too high, the unit's loader will automatically stop playing the disc. Please wait for the unit to cool down before using the player again.
4. Never insert anything other than a 5 inch (12 cm) compact disc into the player as the mechanism can be damaged by foreign objects.
5. Do not attempt to use a 3" (8 cm) Single-CD disc in this unit, either with or without an adaptor, as it will damage the player and disc. Such damages are not covered under Warranty.
6. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the LCD panel. If this occurs, the screen will not operate properly until the moisture has evaporated.
7. We recommend that you clean your discs before inserting them into the unit; this will prevent damages to the laser and prolong its life



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