



## OWNER'S MANUAL

**NOTE:**

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## Contents

Thank you for your choosing our product. 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'll learn how to use all the features of your new Unit for 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 descriptions in this 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.

## Preparation

Please read all of the instructions before beginning the installation. We recommend having your unit installed by a credible installation shop.

### Features

- Single DIN size, all-in-one integrated entertainment system.
- Built-in DVD Player, automotive specification slot loading mechanism.
- Built-in RDS FM/AM Tuner.
- High resolution 7" (16:9) TFT color monitor, contrast and brightness adjustment, with LCD dot matrix display.
- Built-in 40W X 4 amplifier, 4.1 channel surround sound output.
- Turn out and slot-in panel structure.
- Smart Touch-screen operation.
- Buttons and Encoder operation.
- Steering wheel button operation interface.
- All functions can be operated by included Remote Controls.
- Standby mode.
- Powerful Graphic User Interface and software update ability.

### Tools and Supplies

You will need these tools and supplies to install your 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
- Multimeter
- Crimp connections
- 18 gauge wire for power connections
- 16 – 18 gauge speaker wire
- Heatshrink tubing
- Soldering iron and solder

### WARNINGS

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 for rear view video camera) never use the video display function while driving the vehicle. This may be in violation of local laws.
4. To reduce the risk of a traffic accident, never driving with the sound at a level that prevents you from hearing sounds outside around the vehicle.
5. Never disassemble or adjust the unit without the assistance of a professional. For details, please consult your local car stereo specialty shop.
6. To prevent injury from shock or fire, never expose this unit to moisture or water.
7. Never use irregular discs, the only recommended disc size is a 12cm round disc.
8. To prevent damage to the mechanism inside this unit, avoid 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.
10. The monitor employs an automatic motorized mechanism. To prevent damage to the core mechanism, please do not push, pull or swivel the monitor manually.

### Disconnecting the Battery

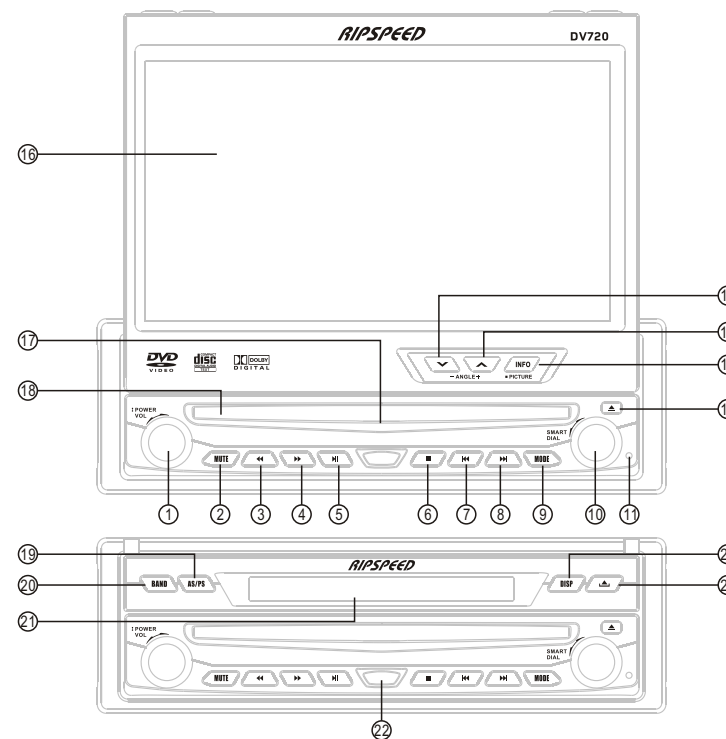
To prevent a short circuit, turn off the ignition and remove the negative (-) battery cable prior to starting the installation.

**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 preset memory may be erased. Under these conditions, use extra caution during installation to avoid causing a short circuit.

**NOTE:** It is especially important that you read the **WARNINGS** and **NOTES** in this manual.

## Controls and Indicators

### Button Operation



#### 1. POWER/VOL

Rotary encoder.  
Press the encoder to turn on the unit, press and hold to turn off.  
Rotate clockwise/counterclockwise to adjust the volume.  
Press to enter the audio adjust menu when the unit is on.

#### 2. MUTE

Press the MUTE button to mute the volume, and press the button again to restore the volume.

#### 3. FAST REVERSE

Fast reverse play the disc content in DVD mode .  
Press to tune frequency backward one step in TUNER mode.

#### 4. FAST FORWARD

Fast forward play the disc content in DVD mode  
Press to tune frequency forward one step in TUNER mode.

#### 5. PLAY/PAUSE

Press to play/pause.  
Press to scan radio stations stored in the 6 preset channels in TUNER mode

#### 6. STOP

Stop playback in DVD mode.  
Select FM/AM band in TUNER mode

#### 7. PREVIOUS

Select the previous chapter/track for playback.  
Seek an available radio station by decreasing tuning frequency

#### 8. NEXT

## Controls and Indicators

Select the next chapter/track for playback.

Seek an available radio station by increasing tuning frequency

### 9. MODE

Press to select a source.

### 10. SMART DIAL

Rotary encoder.

Press the encoder to access MAIN menu.

Rotate clockwise/counterclockwise to select a desired item and press to access or confirm.

### 11. RESET

Press to reset system settings (except the DVD setup).

### 12. EJECT

Press once for disc insertion/ejection.

### 13. INFO/PICTURE

Press to display the playing information on the screen on DVD mode.

If the TFT monitor is closed, DVD playing information will display on the LCD screen.

Press and hold to access the picture setup.

### 14. ANGLE+

Press the button to adjust the upward tilt angle of the screen one step at a time. Press and hold this button to continuously adjust the upward tilt.

Press this button to adjust the picture settings in picture setup.

### 15. ANGLE-

Press the button to adjust the downward tilt angle of the screen one step at a time. Press and hold this button to continuously adjust the downward tilt.

Press this button to adjust the picture settings in picture setup.

### 16. TFT DISPLAY

### 17. DISC INDICATOR LIGHT

It is blue when there is no disc in the slot, otherwise, it is red.

### 18. DISC SLOT

### 19. AS/PS (Auto store/program scan)

Press to auto store strong radio stations in the 6 preset channels in the current band.

Press and hold to start to scan radio stations stored in the 6 preset channels in the current band.

### 20. BAND

Press to change among the following bands: FM1,FM2,FM3,AM1,AM2.

### 21. LCD DISPLAY

### 22. IR REMOTE CONTROL RECEIVER

### 23. OPEN

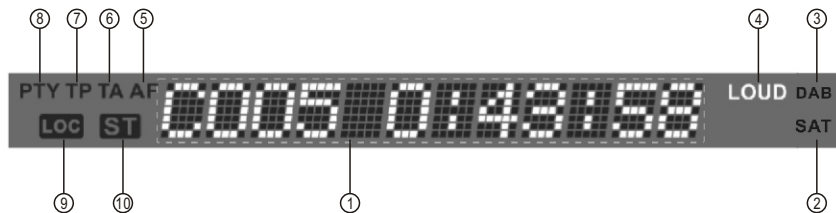
Press the button to activate the motorized system and move the TFT monitor into viewing position.

Press again to close the TFT.

### 24. DISP

Press the DISP button to display system information on the front LCD screen or on the TFT screen.

## LCD Display / Indicators



1. Main display area, displays the time, tuning frequency and other text information.

2. Satellite (SAT) radio indicator.

3. Digital audio broadcast (DAB) indicator.

4. Loudness indicator, Indicates the LOUD function is activated or not.

5. Alternative Frequency (AF) indicator.

6. Traffic Announcement (TA) indicator.

## Controls and Indicators

7. Traffic Program (TP) indicator.

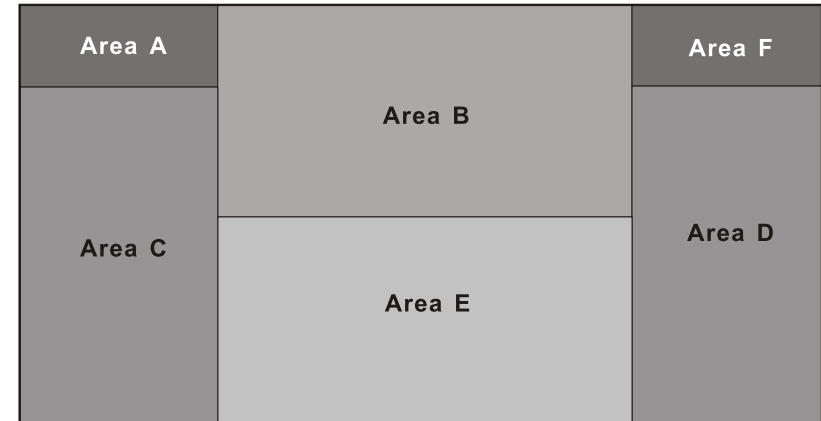
8. Program Type (PTY) indicator.

9. Local indicator, Indicates the local radio station seeking function is activated or not.

10. Stereo broadcasting indicator, Indicates the radio is in stereo mode or not.

### The key Areas of the Touch Screen

The touch key areas are outlined below, for DVD, VCD mode and all other operating modes.



A — Return to MAIN MENU

B — Displays playing information

C — Select previous chapter

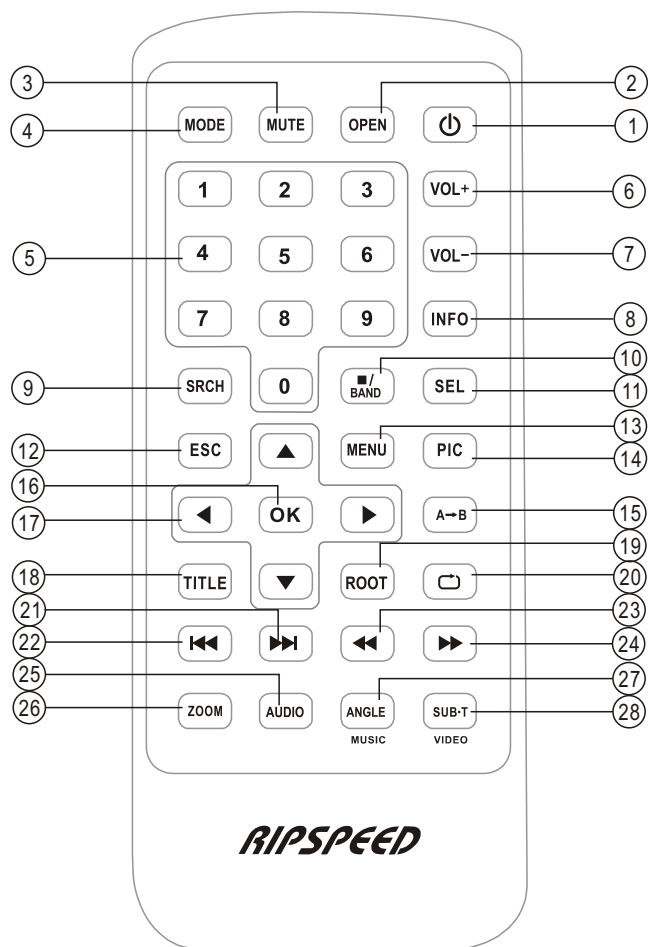
D — Select next chapter

E — Display the on-screen control, and different mode displays different menu.

F — on DVD/VCD mode, display the GOTO search menu on the screen directly.

## Remote Control

### Front Zone Remote Control




| Name           | Ref # | Signal                 | Function   |
|----------------|-------|------------------------|--|
| Power          | 1     |                        | Turn the power on/off  |
| Open           | 2     | <b>OPEN</b>            | Open/close the motorized screen  |
| Mute           | 3     | <b>MUTE</b>            | Toggle on/off audio output   |
| MODE           | 4     | <b>MODE</b>            | Select playing mode  |
| Numeric button | 5     | 1 2 3 4 5<br>6 7 8 9 0 | Directly access certain chapter / track / preset station in current band |
| VOL up         | 6     | <b>VOL+</b>            | Increase the volume  |
| VOL down       | 7     | <b>VOL-</b>            | Decrease the volume  |
| Information    | 8     | <b>INFO</b>            | Display playing information  |
| GOTO search    | 9     | <b>SRCH</b>            | Position search function on VCD/DVD mode                                 |

## Remote Control


| Name              | Ref # | Signal       | Function   |
|-------------------|-------|--------------|--|
| Stop/Band         | 10    |              | Select FM/AM band on Tuner mode<br>Stop playback   |
| Select            | 11    | <b>SEL</b>   | Enter the audio settings   |
| ESC               | 12    | <b>ESC</b>   | Exit the current menu  |
| Menu              | 13    | <b>MENU</b>  | Enter the main menu of system  |
| Picture           | 14    | <b>PIC</b>   | Adjust the picture settings  |
| Repeat A—B        | 15    | <b>A→B</b>   | Set start point A and end point B to repeat continually  |
| OK                | 16    | <b>OK</b>    | Start or pause playback, confirm the settings  |
| Direction buttons | 17    |              | Up/down/left/right to select items for setting   |
| Title             | 18    | <b>TITLE</b> | Also can activate and disable SCAN mode while playing CD   |
| Root              | 19    | <b>ROOT</b>  | Enter the main menu of the disc<br>Turn on PBC while playing VCD   |
| Repeat            | 20    |              | Repeat playback for current chapter  |
| Next              | 21    |              | Select the next chapter/track for playback<br>Search an available radio station by increasing tuning frequency on tuner mode     |
| Previous          | 22    |              | Select the previous chapter/track for playback<br>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    | <b>AUDIO</b> | Change the audio language for disc playback  |
| Zoom              | 26    | <b>ZOOM</b>  | Zooming in/out on an image   |
| Angle             | 27    | <b>ANGLE</b> | Play in different angle for a scene scene(if it is applicable)   |
| SUB Title         | 28    | <b>SUB-T</b> | Language selection for subtitle  |

**Open/Close the TFT Monitor**

Press the (  ) button on the front panel or the (OPEN) button on the remote control to open/close the monitor.

**TFT Monitor Auto Open**

If "TFT Auto Open" is "On", when the unit is turned on, the monitor automatically opens to the last viewing position, and closes automatically when the unit is turned off.



If "TFT Auto Open" is "Off", when the unit is turned on, the monitor will not open automatically, but will close automatically when the unit is turned off. You can press the (  ) button on the front panel or the (OPEN) button on the remote control to move the monitor into the desired viewing position.



If "TFT Auto Open" is "Manual", when the unit is turned on or turned off, the monitor has no movement.

See "General setting" for details.

**Monitor Tilt Angle Adjustment**

The monitor angle can be adjusted for optimum viewing using one of the following methods:

Press the (  ) or (  ) buttons on the front panel to adjust the tilt angle of the screen one step at a time.

Press and hold the (  ) or (  ) buttons to continuously adjust the tilt angle. Adjust the "Screen Tilt" in the "Screen setting" to adjust the tilt of the screen to the desired degree.

**Image Setting**Video Output Format

The table below shows the video output format for each source.

**Video Output Format**







| Name        | Video Output Format |
|-------------|---------------------|
| FM/AM TUNER | RGB Mode            |
| DVD         | RGB Mode            |
| AUX IN      | CVBS Mode           |

\*CVBS-- Composite Video Base band Signal

Adjustable Parameters

While on RGB mode, the only parameter that can be adjusted is brightness (BRIGHT). To access "SHARPNESS" "COLOR" "CONTRAST" "BRIGHTNESS" and "TINT" you must be on CVBS mode.

Parameter Adjustment Procedure


1. Enter Picture Quality Setting Mode:  
Press the PIC button on the remote or press and hold the INFO button on the front panel of the unit.
2. Select Items to Set:  
Press the (  /  ) buttons on the remote or rotate the SMART DIAL button clockwise/anticlockwise to select an item.
3. Set Parameters:  
Press the (  /  ) buttons on the remote or press the ANGLE button (  /  ) on the front panel to adjust the selected feature to the desired setting. Rotate the "VOL" on the front panel can also adjust the selected feature.
4. Exit Picture Quality Setting Mode:  
Press the PIC button on the remote or press and hold the INFO button on the unit.

**Parking Brake Interlock**


1. When the "PARKING" lead is properly connected to the brake switch, the display on the TFT monitor will display video only when the vehicle is stopped and the parking brake is applied.
2. When the "parking brake interlock" is active, the front monitor displays a caution message with a blue background, preventing the driver from watching video while driving to reduce the risk of a traffic accident. Please see "INSTALLATION SECTION" for installation.


**Monitor Movement Mechanism**

If an obstruction occurs on the monitor path, the motion will stop automatically to prevent damage for the mechanism or monitor.

Normal operation is resumed by pressing the (  ) button or disconnecting and reconnecting the Power.

**Power On / Off**

Press the POWER/VOL button to turn the unit on. The buttons on the front of the unit are illuminated and start up message is briefly displayed on the LCD screen, and then displays the current mode status. You can also turn on the unit by pressing the (  ) button on the remote control.

Press and hold the POWER/VOL button on the front panel for more than 1 second or press the (  ) button on the remote to power off the unit. The monitor is drawn back into the main compartment and the LCD screen displays "BYE BYE".

**NOTE:** The operating voltage range is 10.5v~16v. The unit will power off automatically to protect itself, when the voltage is out of the operating range.

**Playing Source Selection**

Press the MODE button on the front panel or the (MODE) button on the remote to select among the available sources: TUNER, Disc, AUX IN. The selected playing mode is displayed on the TFT or LCD screen.

AUX IN Mode

An external peripheral device can be connected to this unit via RCA cables to the "AUX-IN".

**Volume Adjustment**

To increase or decrease the volume level, turn the POWER/VOL on the front panel or press the (VOL+/VOL-) buttons on the remote control. The volume ranges from "0" to "40". The default volume is "10" when the unit is powered on each time. Default volume memory setup: Rotate Power/VOL knob on the front panel to select volume value and then press and hold the Power/VOL button until you hear a single beep. When you hear the beep, setup is completed.



**Audio Control Menu**

The Audio Control feature allows you to easily adjust your audio system to meet the acoustical characteristics of your vehicle, which vary depending on the type of vehicle and its measurements. To get the best possible sound quality from your new system, be sure to adjust the settings for the speakers as well. Proper setting of the Fader and Balance enhances the effects of the cabin equalizer.



Accessing the Audio Control Menu

Press the POWER/VOL on the front panel once or press the (SEL) button on the remote control to enter the "Audio" menu.

Selecting an Audio Feature for Adjustment

Press the (  /  ) buttons on the remote to select a item to be adjusted. Rotate the "Smart Dial" on the front panel to select a item to be adjusted.

Adjusting an Audio Feature

Press the (  /  ) buttons on the remote or rotate the POWER/VOL clockwise/counterclockwise to adjust the selected feature to the desired setting.

Audio Adjustments

| Audio Function | Adjustable Range |
|----------------|------------------|
| EQ             | User             |
|                | Flat             |
|                | Jazz             |
|                | Pop              |
|                | Classical        |
|                | Rock             |
|                | News             |
|                | Urban            |
|                | Rave             |
|                | Movie            |
|                | Techno           |
| BASS           | -7 to +7         |
| TREBLE         | -7 to +7         |
| FADE           | -9 to +9         |
| BAL            | -9 to +9         |
| S W            | -7 to +7         |
| LOUD           | Off, On          |

**NOTE:** The Bass and Treble levels are only adjustable when EQ is set to "User" mode. The Loudness function compensates for deficiencies in sound ranges at low levels. When the Loud function is on, LOUD is displayed on the screen.

Exiting the Audio Control Menu

Press and hold the POWER/VOL button on the front panel to exit the audio control menu or press the escape arrow on the top right corner of the TFT display.

Press the (ESC) button on the remote control to exit the audio control menu.

**System Reset**

To correct a system halt or other illegal operation, use the tip of a pen to press the RESET button located on the front bottom-right corner of the unit. After a system reset, the unit system setup (except the DVD setup and "Radio" in "GENERAL" setup) restores the setting before last power off.

**Mute**

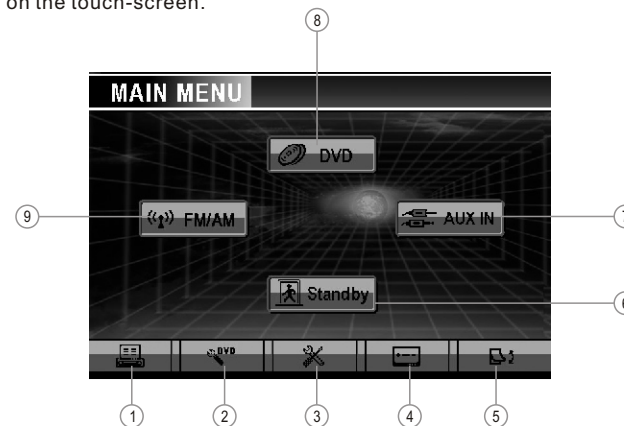
Press the MUTE button on the front panel or the (MUTE) button on the remote to mute the volume from the unit.

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

**MAIN Menu**

There are three methods to access the MAIN menu.

- Press the SMART DIAL button on the front panel .
- Press the MENU button on the remote control.
- Touch the A area on the touch-screen.



1. Touch to access Front-Zone menu.
2. Touch to access DVD setup.
3. Touch to access General setup.
4. Touch to access Screen setup.
5. Touch to turn to the previous menu.
6. Touch to access the Standby mode.
7. Touch to access AUX IN mode.
8. Touch to access DVD mode.
9. Touch to access Tuner mode.

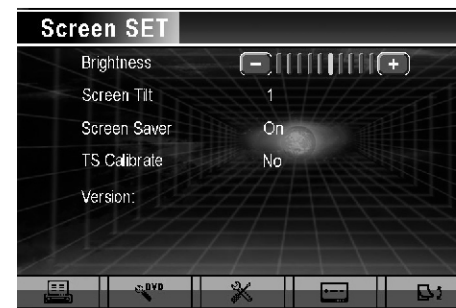
**Note:** Remote, touch screen operations and buttons on front panel are all useable to select menu and adjust settings. The following instructions will show the different ways to access menus and adjustments.

**Screen Setup Menu**

Accessing the Screen Setup Menu

Press the SMART DIAL on the front panel or press the (MENU) button on the remote control to access MAIN menu.

Select the  button on the bottom of the screen to access the Screen setup.





## System Setup Menu

### Selecting a Feature for Adjustment


Press the (▲/▼) buttons on the remote to select a feature to be adjusted. Rotate SMART DIAL clockwise/counterclockwise to select a feature to be adjusted. Directly touch the options on the screen to select a feature to be adjusted.

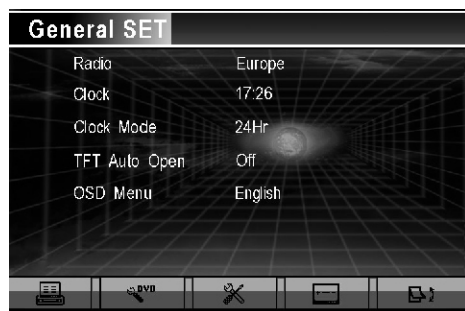
### Adjusting a Feature

| Setting      | Options    | Function  |
|--------------|------------|---|
| Brightness   | -10 to +10 | Press the (◀/▶) buttons on the remote or rotate the SMART DIAL clockwise/counterclockwise to adjust the Brightness to the desired setting.        |
| Screen Tilt  | 1-6        | Press the (◀/▶) buttons on the remote or touch the (1 to 6) number on the screen directly to adjust the tilt of the screen to the desired degree. |
| Screen Saver | On         | Touch to activate/deactivate the Screen Saver.  |
|              | Off        |   |
| TS Calibrate | No         | Touch "Yes" to enter the touch screen calibrate mode.   |
|              | Yes        |   |
| Version      |            | The version of this unit.   |

### General setup Menu

#### Accessing the General Setup Menu

•Select the  button on the bottom of the touch screen to access the General setup.



### Selecting a Feature for Adjustment

Press the direction buttons on the remote control or touch the option directly on the screen to select the feature to be adjusted.

### Adjusting a Feature

1. Enter the option field for the feature you want to adjust by pressing the (OK) button on the remote or by pressing the SMART DIAL button. A submenu appears in a second row with the selected option.
2. Select a new value by pressing the direction button.
3. Confirm your selection by pressing (OK) button or pressing the SMART DIAL button. The new value setup is complete.

### Adjusting the Clock


1. Access the "Clock" setting under the General Setup menu.
2. Press the direction button on the remote to move the cursor to the "Hour" or "Min" position, and press the (OK) button. You also can touch the "Hour" or "Min" position directly.

## System Setup Menu

3. The numeric keypad will pop up.
4. Press the numeric button on the remote control or touch the numeric keypad on the screen to adjust the hour or minutes.
5. Press the (OK) button on the remote control or on the keypad of the screen to confirm setup.

### Return to normal playback

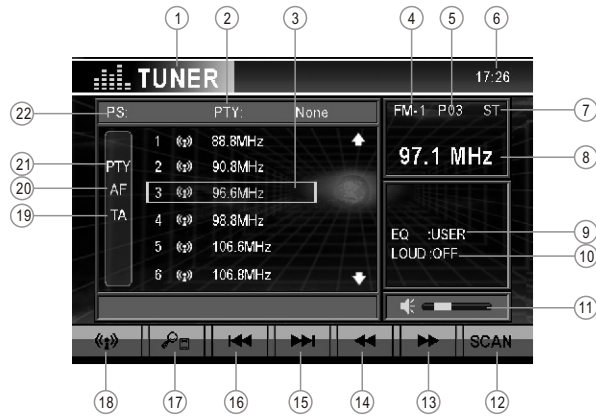
The system will automatically return the previous playback mode that it was in before accessing the setup menu 20 seconds after the last operation.

| Setting       | Options   | Function   |
|---------------|-----------|--|
| Radio         | USA       | Select the appropriate setting based on the country in which you reside.   |
|               | S-America |  |
|               | Europe    |  |
| Clock         | (HH:MM)   | See "Adjusting the clock" to learn how to set the clock.   |
| Clock Mode    | 12Hr      | Clock displays 12 hour time using AM and PM.   |
|               | 24Hr      | Clock displays 24 hour time up to 23:59  |
| TFT Auto Open | On        | The TFT panel automatically opens when the unit is turned on.  |
|               | Off       | You must press the  button on the TFT panel or the OPEN button on the remote to open the TFT. |
|               | Manual    | The monitor does not open or close when the unit is turned on or turned off.   |
| OSD Menu      | English   | The menus are displayed in English only.   |

### Standby

1. Touch the Standby button on the touch-screen to access Standby mode.
2. In the standby mode, the unit stands in low-power state with audio output only.
3. In the standby mode, you can return to normal screen mode by performing any unit operation.

Tuner TFT display



1. Current Source information, touch this area to return to MAIN menu.
2. Display Program Type.
3. Preset Radio Stations: Touch to recall preset stations or touch and hold to store a station. (Total 6 stations per Band you can preset.)
4. Current Radio Band Indicator.
5. Current Preset Station playing Indicator.
6. Current time Indicator.
7. Stereo Broadcast Indicator.
8. Radio Frequency Indicator.
9. System EQ setting.
10. Loud Setting Indicator.
11. Volume Indicator.
12. **SCAN**: Touch to activate/deactivate Scan Mode.
13. **▶▶**: Touch to tune up one step.
14. **◀◀**: Touch to tune down one step.
15. **▶▶▶**: Touch to seek up.
16. **◀◀◀**: Touch to seek down.
17. **AS/PS**: Touch to automatically scan and store stations in current radio band. You also can press the AS/PS button on the front panel.
18. **BAND**: Touch to change among the following bands: FM-1, FM-2, FM-3, AM-1, AM-2.
19. Touch to activate/deactivate TA (Traffic Announcement) function.
20. Touch to activate/deactivate AF (Alternative Frequency) function.
21. Touch to activate/deactivate PTY (Program Type) function.
22. Display PS (Program Service).

**NOTE:** This product features a tuner with RDS function, RDS (Radio Data System) is a system that transmits broadcast station information together with FM programs. You get display of Program Service Name and PTY, tuning to stations broadcasting a desired PTY, automatic tuning to traffic information, and emergency broadcasts and radio text display. RDS service was not available in AM broadcasting. RDS service availability depends on the FM broadcasting provider.

**Switch to Radio Tuner source**

Press the MODE button on the front panel or press the MODE button on the remote control to switch to the Tuner source .you can also access the tuner mode from the MAIN menu directly.

**Select FM/AM Band**

Touch the **BAND** button on the screen or press the ( **BAND** ) button on the remote control to change among the following bands: FM-1,FM -2,FM-3,AM-1,AM-2.

**Auto Tuning**

Press the button ( **▶▶** ) on remote control or touch the **▶▶** button on the screen to seek the next available channel by increasing the tuning frequency. Press the button again to stop searching. Press the button ( **◀◀** ) on the remote control or touch the **◀◀** button on the screen to seek the next available channel by decreasing the tuning frequency. Press the button again to stop searching.

**Manual Tuning**

Touch the **▶▶** or **◀◀** to increase or decrease the tuning frequency one step.

**Using Preset Stations**

6 numbered preset buttons store and recall stations for each band. 6 stored stations (P01-P06) for the current band appear on the screen, touch the channel directly to select. You can touch the arrow buttons **↑** **↓** on the screen to select other stations.

**Storing a Station**

1. Select a band (if needed), then select a station.
2. Touch and hold an onscreen preset button (3) for three seconds. The preset number appears at the top of the screen.

**Recalling a Station**

1. Select a band (if needed).
2. Touch an on-screen preset button (3) to select the corresponding stored station.

**Auto Store (AS) - Shown By Radio Frequency**

Press the AS/PS button on the panel or press and hold the **AS/PS** button on the screen to automatic scan and store strong radio stations in the 6 preset channels in the current band.

**Auto Store (AS) - Shown By Radio Station Name**

Touch [AF] in the screen, then press the AS/PS button on the panel or press the **AS/PS** button on the screen to automatic scan and store strong radio stations in the 6 preset channels in the current band.

**Program Scan (PS)**

1. Press and hold the AS/PS button on the panel or press the **AS/PS** button on the screen. Scan the stations in the 6 preset channels in the current band.
2. Touch the **SCAN** button on the screen to automatically scan all stations in current band to preview stations.
3. Press any button to stop scanning and listen to the selected station.

**Seek the PTY (Program Type)**

Touch **PTY** in the screen to enter PTY menu, then touch to select one in the PTY menu, the unit will auto seek the next available PTY by increasing tuning frequency until the program type matches the PTY, if no matched was found ,the tuner will return to original radio and "None" is displayed .

**AF (Alternative Frequency/Auto Following) Function**

Touch **AF** in the screen to activate/deactivate AF function. When AF is activated and a radio signal is too weak, the tuner automatically switches to the best alternative frequency.

Note: During auto switching radio frequency, some interference could be heard. Turn off AF function can cease this issue.

**TA (Traffic Announcement) Function**


Touch **TA** in the screen to activate/deactivate AF function. When TA is activated, the unit will auto seek an available TP or TA station .After the seeking, no matter if PTY was found, the tuner will auto seek each 1 minutes.

When TA is activated and a traffic announcement is received, the current playing source is overridden by the traffic announcement automatically, if the tuner was last set to the FM band but not if it was last set to the AM band. When traffic announcement is over, the current playing source will be resumed.

**NOTE:** When properly installed, DVD video cannot be displayed on the main TFT screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays caution information with a blue background.

**Opening/Closing the TFT Video Screen**

Opening the TFT Screen

To open the TFT video screen, press the (  ) button on the unit or press the (OPEN) button on the remote control.

Closing the TFT Screen

Press the (  ) button on the unit or press the (OPEN) button on the remote control again to close the TFT screen.

**Insert/Eject Disc**


Inserting a Disc

When inserting a DVD disc, DVD mode is entered and disc play begins.


**NOTE:** If Parental Lock (Rating) is activated and the disc inserted is not authorized, the 4-digit code must be entered and/or the disc must be authorized (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/RW will not play unless the recording session is closed.

Ejecting a Disc

Press the button  on the unit to eject the disc. The unit automatically reverts 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 is ejected and normal operation resumes.

**Accessing DVD Mode**

To switch to DVD mode when a disc is already inserted, press the MODE button on the front panel or press the MODE button on the remote control until DVD appears at the top of the screen.

**Using the Touch-Screen Controls**






1. Touch to Play/Pause
2. Touch to stop
3. Touch to fast reverse
4. Touch to fast forward
5. Touch to repeat playback
6. Touch to repeat from A to B. Select the repeat point A wherever you want to start and the point B wherever you want to end, then, DVD displays from A to B continually.
7. Touch to choose a language, if the disc is recorded in multiple languages.

8. Touch to display Sub-title
9. Touch to return to DVD main menu

**Controlling Playback**


Stopping Playback

Touch the stop button  on the screen or press the (  ) button on the remote control to stop DVD play and touch the play/pause button  on the screen or the (OK) button on the remote control to resume disc play.

Pausing Playback

Touch the play/pause button  on the screen to suspend or resume disc play.

Repeat Playback

Press the Repeat button  on the screen or on the remote control to alter repeat mode according to the following:

- DVD: Repeat Title, Repeat Chapter, Repeat Off
- VCD (PBC Off): Repeat Single, Repeat Off
- MP3: Repeat Single, Repeat Folder, Repeat Off

**NOTE:** For VCD play, the repeat function is not available if PBC is on.

PBC (Play back Control) (VCD Only)

For VCD with play back functionality, play back control (PBC) provides additional controls for VCD playback.

Press the (ROOT) button on the remote control to toggle the PBC function "On"/"Off". Once PBC is on, playback starts from track one of the play list.


**NOTE:** When PBC is activated, fast forward, slow playback, and previous/next track are available. Repeat and track selection are not available. When PBC is activated, selecting random, scan, or search playback automatically deactivates PBC.

Sectional Repeat Function (A-B)



Use the A-B function to define a specific area of a disc to repeat.

- Press the A→B button on the screen or on the remote control to set the start point (A) of the repeated section.
- Press the A→B button again once you reach the desired end point (B) of the repeated section. The selected portion of the DVD will now repeat continuously.
- Press the A→B button again to cancel the A-B section setting and stop repeat play.



**Accessing the DVD Menu**



1. You can touch the area E, and then touch the  button to recall the main DVD menu.
2. Use the arrow buttons on the remote 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.

**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.

**Fast Forward/Fast Reverse**

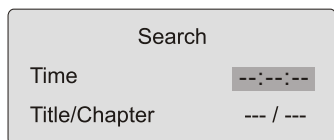
Press the (  ) button on the remote control or touch the  button on the screen to fast forward. Keep pressing or touching and releasing the button to increase the rate from "2X" to "4X", "8X", and "20X".

Press the (  ) button on the remote control or touch the  button on the screen to fast reverse. Keep pressing or touching and releasing the button to increase the rate from "2X" to "4X", "8X", and "20X".

**GOTO Search**

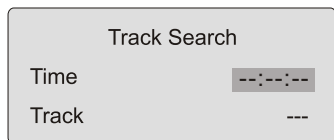
During DVD or VCD playback, perform the following steps to use the GOTO feature to access a specific location on a disc:

1. Press the "SRCH" button on remote control or touch the F Area on the screen to enter "GOTO" mode.
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 "SRCH" button to choose between Track Search and Exit.



**DVD Search**

- Time**-Go to specific time in current title
- Title/Chapter**-Go to specific chapter in a title



**VCD Track Search**

- Time**-Go to specific time in the current track
- Track**-Go to specific track

3. Touch the (---:---:---) / (--- / ---) area on the screen to display a numeric keypad on the touch screen.



4. Enter a time/Track number into the field using the numeric keypad on the remote control or on the screen.
5. Press the OK button on the remote control or on the touch screen to go to the specified location on the disc.
6. Press the "SRCH" button on the remote control or touch the F Area on the screen again 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 simultaneously from different angles. For discs recorded with multiple angles, press the (ANGLE) button on the remote control to toggle available angles of the on-screen image.

**Zooming**

Press the ZOOM button on the remote control to enlarge and pan through the video image using the following options: "Q1", "Q2", "Q3", "Q4" and "Qoff".

**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 the area E, and then touch the 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

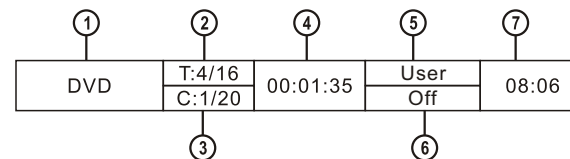
If you are watching a disc recorded in multiple languages with subtitles, press the (SUB-T) button on the remote control to choose the language in which you would like the subtitles to appear. You also can touch the area E, and then touch the button.

**Playback Information**

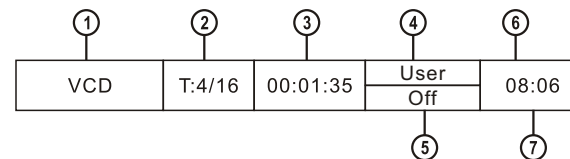
During DVD and VCD playback, press the (INFO) button on the remote or press the DISP button on the front panel or touch the area B to display playback information on the screen, including the media playing and current playback time.

DVD Playback Information

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






1. indicates Current playing source.
2. Indicates the fourth of 16 titles on the DVD is currently playing.
3. Indicates the first of 20 chapters on the DVD is currently playing.
4. Indicates the playback time of the current title.
5. Indicates EQ setting.
6. Indicates the Loud Setting.
7. Indicates the current system time.








1. indicates Current playing source.
2. Indicates the fourth of 16 tracks on the VCD is currently playing.
3. Indicates the playback time of the current title.
4. Indicates EQ Setting.
5. Indicates the Loud Setting.
6. Indicates the current system time.

General Disc Information

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



Disc Symbols

| Symbol  | Meaning   |
|---|---|
|    | Number of voice languages recorded.<br>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"> <li>Region 1: USA, Canada, East Pacific Ocean Islands</li> <li>Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East</li> <li>Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia</li> <li>Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania</li> <li>Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia</li> <li>Region 6: Mainland China</li> <li>ALL: All regions</li> </ul> |

In "DVD Setup" mode, "LANGUAGE", "VIDEO" and "RATING" (parental lock) are available for setup. This operation can be performed using rotary encoder, the remote control or touch screen.

Accessing the DVD Setup Screen

If DVD is selected as the current playing source, you can access DVD setup screen through following methods:

- Press the SMART DIAL on the front panel or touch the area A to access the MAIN menu, and then touch the  to access the DVD Setup Screen.
- Press the (MENU) button on the remote control, press the direction button to select  and press the (OK) button to access.

Accessing a Menu

To access a menu (LANGUAGE, VIDEO, RATING), press the direction buttons on the remote control to highlight the desired menu. You can also touch the on-screen menu selection to access that menu.

**NOTE:** Once the DVD setup is complete, the settings are memorized. If you want to restore the factory default settings, please adjust the "Load Factory" in the RATING Menu. (See RATING Menu.)

Selecting a Feature for Adjustment

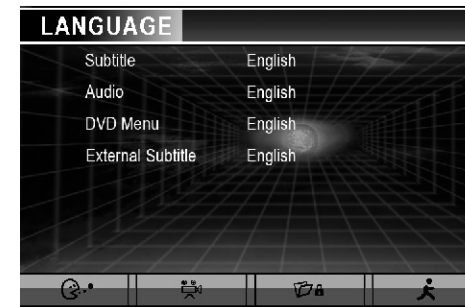
Once inside a menu, press the (▲ / ▼) on the remote control or touch the item directly to select the feature to be adjusted.

Adjusting a Feature

1. Enter the option field for the feature you want to adjust by pressing the (OK) button on the remote or by pressing SMART DIAL. A submenu appears in a second row with the selected option.
2. Select a new value by pressing the (◀ / ▶) buttons on the remote control or rotate clockwise or counterclockwise the SMART DIAL.
3. Confirm your selection by pressing the (OK) buttons on the remote control, or press the SMART DIAL. The new setup is completed.

LANGUAGE Menu

If a DVD supports more than 1 Subtitle or Audio language, all the languages are available for selection during playback. If the selected language is not supported by the DVD, then the default language is used. During playback, press the (SUBT) or (AUDIO) button on the remote control to change the language directly. This will not affect the DVD menu settings.

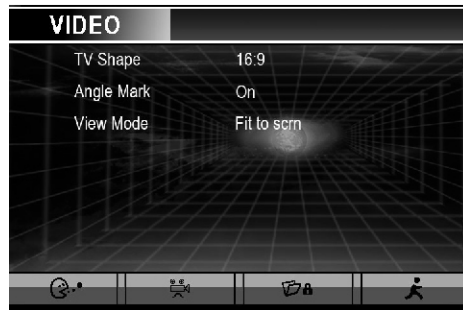


## DVD Setup Menu

### LANGUAGE Menu Features

| Setting           | Options          | Function   |
|-------------------|------------------|--|
| Subtitle          | English          | Select the default language which you would like subtitles (if applicable) to display.             |
|                   | Auto             |  |
|                   | Off              |  |
| Audio             | English          | Select the default language which you would like to listen to (if optional).                       |
| DVD menu          | English          | Select the default language which you would like the DVD menu (if applicable) to display           |
| External Subtitle | English          | Select the default External language which you would like the subtitle (if applicable) to display. |
|                   | Western European |  |
|                   | Central European |  |

### VIDEO Menu

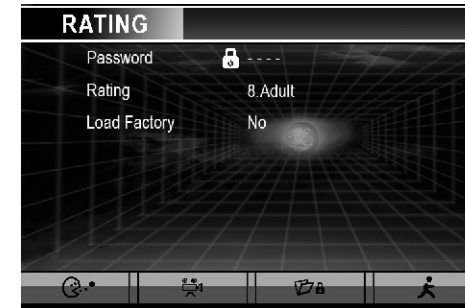


| Setting                 | Options     | Function  |
|-------------------------|-------------|---|
| TV Shape (Aspect Ratio) | 4:3         | Image is presented in wide view with a 4:3 aspect ratio.  |
|                         | 16:9        | Image is presented in wide view with a 16:9 aspect ratio. |
| Angle Mark              | On          | Angle indicator (if applicable) is shown.                 |
|                         | Off         | Angle indicator is not shown.                             |
| View Mode               | FILL        |   |
|                         | Original    |   |
|                         | H FIT       |   |
|                         | W FIT       |   |
|                         | Fit to Scrn |   |
|                         | Pan Scan    |   |

**NOTE:** For standard discs not formatted for “widescreen”, use of the 16:9 aspect ratio will result in image distortion.

## DVD Setup Menu

### RATING (Parental Lock) Menu



The DVD system has a built-in parental lock feature to prevent unauthorized persons from viewing restricted disc content. By default, the rating system is unlocked. Once setup, the parental lock is released only by entering the correct password. Once the password is entered, rating is available for setup.

| Setting      | Options     | Function   |
|--------------|-------------|--|
| Password     | ----        | Enter a 4-digit password to activate the “Rating” feature.   |
| Rating       | 1. Kid Safe | Select the appropriate rating level for the intended audience. You may override higher ratings by using your password.       |
|              | 2. G        |  |
|              | 3. PG       |  |
|              | 4. PG-13    |  |
|              | 5. PG-R     |  |
|              | 6. R        |  |
|              | 7. NC-17    |  |
|              | 8. ADULT    |  |
| Load Factory | No          | Select “Yes” to restore the factory default settings for the DVD setup only (except the password and parental lock setting). |
|              | Yes         |  |

To reset the password, access the “RATING” menu and enter the current password. Once the correct password is entered, you can access the “Password” field and enter a new one.

**NOTE:** Record the password and keep it in a safe place for future reference. The rating for each disc is marked on the disc, disc packing, or documentation. If the rating is not available on the disc, the parental lock feature is unavailable. Some discs restrict only portions of the disc and the appropriate content will play. For details, please refer to the disc description.

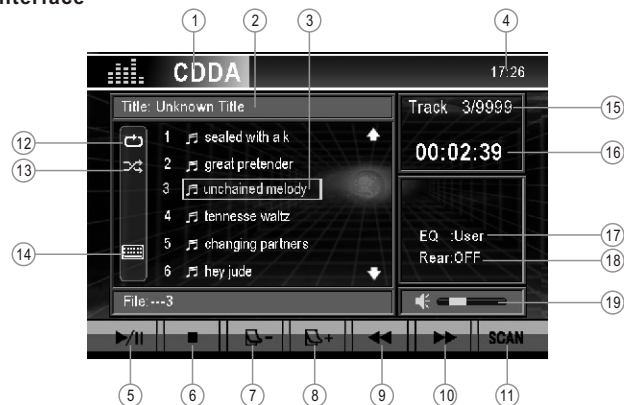
Instructions for Insert/Eject, Play/Pause, Stopping Playback, Track Selection, Fast Forward/Fast Reverse, Scan, and Random Play are the same for DVD, CD and MP3 operation. Please see the DVD Player Operation section for information about these topics.

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 conform to ISO 9660 file system standards, it may not be displayed or played back correctly.

**CD Player User Interface**



1. Current source indicator, touch this area to access MAIN menu.
2. Disc title
3. Track title
4. Current time
5. : Touch to play/pause
6. : Touch to stop disc playback
7. : Touch to turn to the previous page
8. : Touch to turn to the next page
9. : Touch to fast backward current track
10. : Touch to fast forward current track
11. : Touch to activate/deactivate Scan Mode
12. : Touch to activate/deactivate Repeat Single Mode
13. : Touch to activate/deactivate Random Mode
14. : Touch to display the numeric keypad on the screen, and then you can use the numeric keypad to access a track directly.
15. Current track and total number of tracks on disc
16. Elapsed playing time
17. User Defined Equalizer Lever
18. Loud Setting Indicator
19. Volume indicator

**Playing CD Files**

After inserting a CD disc, files will play in the sequence of the all directory. In playing back, you can press the numeric button on the remote control or touch a track on the onscreen directly to play.

**Previous/Next Page**

Touch the or on the screen to navigate through the pages/files.

**Fast backward/fast forward**

Touch the or on the screen to fast backward or fast forward play.

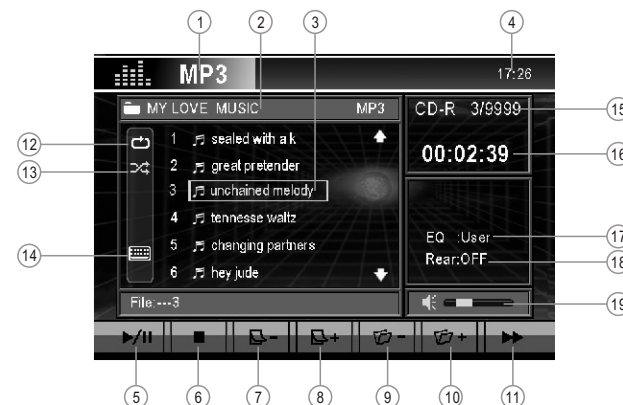
**MP3/WMA Discs**

This player allows you to playback MP3 files recorded on CDRom, CD-R, CD-RW, DVD+R/RW and DVD-R/RW. For CD-RW discs, please make sure it is formatted using the full method and not the quick method to prevent illegal disc operation. Use the following settings when compressing audio data for your MP3 disc:

- Transfer Bit Rate: 320kbps
- Sampling Frequency: 48kHz

When recording MP3 up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to maximum disc capacity, use the "Disc at once" setting.

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



1. Current source indicator, touch this area to access MAIN menu.
2. Disc title
3. Track title
4. Current time
5. : Touch to play/pause
6. : Touch to stop disc playback
7. : Touch to turn to the previous page
8. : Touch to turn to the next page
9. : Touch to display previous folder.
10. : Touch to display next folder
11. : Touch to fast forward current track
12. : Touch to activate/deactivate Repeat Single Mode
13. : Touch to activate/deactivate Random Mode
14. : Touch to display the numeric keypad on the screen, and then you can use the numeric keypad to access a track directly.
15. Current track and total number of tracks on disc
16. Elapsed playing time
17. User Defined Equalizer Lever
18. Loud Setting Indicator
19. Volume indicator

**Playing MP3/WMA Files**

After inserting a MP3/WMA disc, files will play in the sequence of the all directory. In playing back, you can press the numeric button on the remote control or touch a track directly to play.

**Change Directory**

Touch the or on the screen to navigate through the directories/folders.

**Previous/Next Page**

Touch the or on the screen to navigate through the pages/files.

JPEG Discs



1. Stop playback and return to the picture list
2. Rotate picture clockwise 90°
3. Rotate picture anticlockwise 90°

| Problem  | Cause   | Corrective Action   |
|--|---|---|
| <b>GENERAL</b>   |   |   |
| 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 in the bottom right corner of the front panel  |
| 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                             |
| Poor sound quality or distortion                       | Speaker wiring is in contact with metal part of car                       | Insulate all speaker wiring connections                                       |
|  | Unauthorized disc is in use   | Use original copy   |
|  | Speaker power rating not compatible with unit                             | Connect proper speakers   |
| Tel-Mute malfunction                                   | Speaker is shorted  | Check speaker connections   |
|  | "MUTE" wire is grounded   | Check that "MUTE" connection is not grounded and that it's properly insulated |
| Unit resets itself when engine is off                  | Incorrect connection between yellow memory wire and positive battery wire | Check wiring and correct  |
| <b>TFT MONITOR</b>                                     |   |   |
| Monitor does not open automatically                    | TFT Auto Open is turned off   | Turn TFT Auto Open on   |
| No image   | Incorrect connection to parking brake wire                                | Check wiring and correct  |
|  | PARKING is activated and parking brake is not engaged                     | Stop vehicle in safe place and apply parking brake                            |
| Prolonged image or improper height/width ratio display | Improper aspect ratio setup   | Use correct aspect ratio setting  |
| Monitor stops at incorrect position                    | Moving path is blocked  | Press OPEN key to restart monitor movement                                    |
| <b>TUNER</b>   |   |   |
| Weak station searching                                 | Auto antenna is not fully extended  | Connect the auto antenna control cable properly                               |
|  | Auto antenna not properly connected                                       | Connect the auto antenna control cable properly                               |
|  | LOCAL function is activated   | Turn LOCAL function off   |
| <b>DISC</b>  |   |   |
| 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 disc in good condition  |
|  | 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 lower restriction                            |



## Troubleshooting

| Problem                                  | Cause  | Corrective Action                |
|--|--|----------------------------------|
| Disc does not play back                  | Disc is inserted upside down                 | Insert disc with label side up   |
|  | Disc region code is not compatible with unit | Use disc with proper region code |
| Image blurred, distorted, or dark        | Disc is illegally copied                     | Use original disc                |
| PBC cannot be used during VCD playback   | PBC is not available on the disc             |                                  |
| No repeat or searching while playing VCD | PBC is on                                    | Turn PBC off                     |
| <b>MP3</b>                               |  |                                  |
| 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       |                                  |

### Error Messages

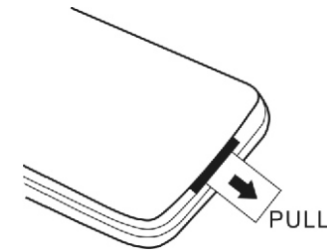
| Problem      | Cause  | Corrective Action  |
|--------------|--|--|
| Loading      | Disc is being read                             |  |
| No Disc      | Disc is dirty                                  | Clean disc with soft cloth                               |
|              | Disc is upside down                            | 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                           |
|              | Disc is scratched and can't be used again      | Change a new one   |
| 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 EJECT key for 5 seconds to reset loading mechanism |

### Remote control

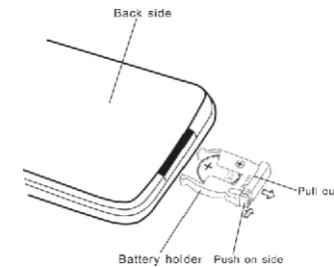
|                                  |   |                                      |
|----------------------------------|---|--------------------------------------|
| Remote control does not function | Battery is covered with insulation tape | Pull out the insulation tape         |
|                     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

## Troubleshooting

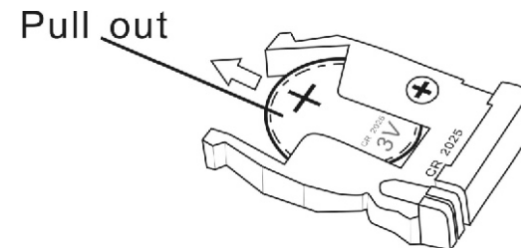
- When using the remote for the first time, you must pull out the insulation tape.



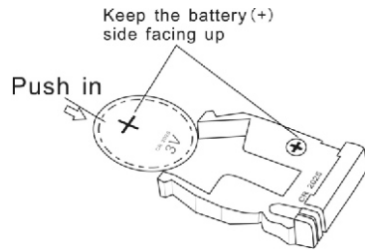
- Remove the battery if the remote control is not used for a month or longer. Remove and dispose of the old battery immediately. Do not store the battery with metallic materials.
- Inserting/Replacing the Battery:  
Remove the battery holder



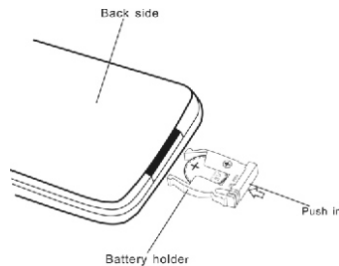
Remove the battery from the battery holder



Install the battery



Insert the battery holder



**NOTE:** Use only one CR2025(3V) lithium battery.  
 Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.  
 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 piece of clean silicone cloth and neutral detergent to clean the front panel or monitor. A rough cloth and non neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Keep off water and other liquid things.
3. If the temperature inside the player gets too high, a protective circuit automatically stops playing the disc. And then, please wait for the unit to cool down before operating the player again.
4. Never insert anything other than a 5" (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) CD-Single disc in this unit, either with or without an adaptor, as it will damage the player and disc. Such damages are not covered by the Warranty on this product.
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 suggest that you should clean the discs used in this unit more frequently than used in your home, because of the environmental conditions of the vehicle.

**CEA Power Ratings**

**Main Amplifier**

Power Output: 20 watts X 4 channels into 4-ohms @ < 10% THD+N  
 Signal to Noise Ratio: 70dBA below reference. (Reference: 1 watt, 4-ohms)  
 MAX Power: 40 X 4 watts into 4-ohms, all channels driven  
 Frequency Response: 20Hz to 20 kHz, -3dB. Aux input used as source reference  
 Reference Supply Voltage: 14.4VDC

**DVD/CD Player**

Compatible formats: DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW, CD-DA, MP3, WMA, HDCD, SVCD, VCD, MPEG, JPEG, MP3/WMA files burned onto a DVD+R/W or DVD-R/W and CD-R/RW  
 Signal to Noise Ratio: 85dBA  
 Dynamic Range: >95dB  
 Frequency Response: 20Hz to 20 kHz, -3dB  
 Channel Separation: > 60dB @ 1kHz  
 D/A Converter(s): 6-channel high performance 24-bit, 192 kHz,  
 Multi-bit Sigma Delta modulation. DAC supports sample rates from 8~192 kHz.  
 Mechanical anti vibration ability: 10~200Hz, X/Y/Z direction: 1.0G

**Video Section**

Format: NTSC, PAL (auto-detection)  
 Output: 1Vp-p (75-ohm), buffered  
 Input: 1Vp-p (75-ohm)

**FM Tuner Section**

Tuning Range: 87.5MHz - 108MHz  
 Mono Sensitivity (-30dB): 10dBu  
 Quietening Sensitivity (-50dB): 15dBu  
 Alternate Channel Selectivity: 70dB  
 Signal to Noise Ratio @ 1kHz: 58dB  
 Image Rejection: 60dB  
 Stereo Separation @ 1kHz: 30dB  
 Frequency Response: 30Hz - 15kHz, -3dB

**AM Tuner Section**

Tuning Range: 522kHz - 1629kHz  
 Sensitivity (-20dB): 20dBu  
 Signal to Noise Ratio @ 1kHz: 50dB  
 Image Rejection: 60dB  
 Frequency Response: 50Hz - 2kHz, -3dB

**Monitor Section**

Screen Size: 7" (Measured diagonally).  
 Screen Type: TFT Liquid Crystal Display (LCD) active matrix  
 Response Time: 30mSec rise time, 50mSec fall time  
 Resolution, DVD/Composite Video in: 336,960 sub pixels,  
 1440 (W) X 234 (H)  
 Viewing angle: •45~60 degrees left or right •20~30 degrees up  
 •40~60 degrees down

**General**

Auxiliary Input impedance: 10k  
 Power Supply: 10.5 to 16V DC, negative ground  
 Fuse: 10-amp, mini ATM type  
 DIN chassis dimensions: 178mm x (165+25)mm x 50mm  
 \* Specifications subject to change without notice.