



# VM9114

## Operating Instructions



**160** watts peak  
40W x 4



## CONTENTS

Thank you for choosing a Jensen product. We hope you will find the instructions in this owner's 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 Jensen VM9114 Mobile Multimedia Receiver for maximum enjoyment.

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## FEATURES

Congratulations on your purchase of the Jensen VM9114 Mobile Multimedia Receiver. It's a good idea to read all of the instructions before beginning the installation. We recommend having your Jensen VM9114 installed by a reputable installation shop.

### **DVD**

- Fast Forward/Reverse - 2X, 4X, 8X and 20X
- Slow Motion Forward/Reverse - 1/2, 1/4, 1/6 and 1/8
- Play, Pause, Stop, Next Chapter and Previous Chapter

### **CD / MP3 / WMA**

- CD-Text Compatible
- ID3 Tag Compatible
- Directory Search (MP3 / WMA Only)
- Burn up to 1500 MP3 and WMA Files onto a DVD±R / RW
- Audible Forward / Reverse Track Search (CD-DA Only)
- Random, Repeat and Intro
- Play, Pause, Stop, Next Track and Previous Track

### **AM-FM**

- USA / Europe / Latin America / Asia Frequency Spacing
- 30 Station Presets (18 FM / 12 AM)
- Auto Stereo / Mono
- Local / Distance
- Auto Store / Preview Scan

### **Chassis**

- 1.0 DIN (Import / ISO-DIN Mountable)
- Motorized Flip-Out / Flip-Up TFT Screen
- 7" TFT Active Matrix TFT
- 336,960 Sub Pixels (1440W X 234H)
- Screen Tilt / Angle Adjustment
- Beep Tone Confirmation (ON-OFF Option)
- Heat Management System - Forced Air-Cooling To Keep The Chip-Sets Operating at Nominal Temperatures

### **General**

- Front Panel Audio/Video Input
- Three-Band Tone control (Bass, Mid and Treble) with Eight Preset EQ Curves
- Front Panel A/V Aux Input for Portable Media Devices
- Rear Line Output
- Programmable Volume Control
- Touch Screen Calibration Mode

- Rotary Encoder Audio Control

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***WARNING! Never install this unit where operation and viewing could interfere with safe driving conditions.***

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***WARNING! 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 is a violation of federal law.***

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***WARNING! Never disassemble or adjust the unit.***

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***WARNING! To prevent injury from shock or fire, never expose this unit to moisture or water.***

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***WARNING! Never use irregular discs.***

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***WARNING! To prevent damage to the mechanism inside this unit, avoid impact to the TFT monitor.***

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***WARNING! The monitor employs an automatic motorized mechanism. To prevent damage to the core mechanism, please do not push, pull or swivel the monitor manually.***

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## **CONTROLS AND INDICATORS**

### **1. CLOSE/OPEN**

Press to activate the automatic mechanical system and move the TFT monitor into viewing position. Press again to close the TFT.

### **2. PIC/BAND**

Press to adjust the Brightness and Contrast (see "Image/Display Settings" on page 6).

With the monitor closed, press **BAND** to change between three FM and two AM bands.

### **3. DISC SLOT**

### **4. WIDE/|◀◀**

With the monitor closed, press to seek backward.

*Press and hold* to adjust the display aspect of the picture to one of two settings: Full, Normal or STANDBY.

### **5. TILT/▶▶|**

Press to activate the tilt function. Use the rotary encoder to make adjustments while the blue tilt icon is flashing.

With the monitor closed, press to seek forward.

### **6. EJECT**

Press to eject a disc.

*Press and hold* to reset core mechanism position.

### **7. USB Interface Connector**

Connect a USB device for playback of music/video files.

### **8. DISP**

During DVD playback, press once to view Time, Title, Chapter info or twice for Audio, Subtitle, Angle, and Bitrate info.

### **9. TFT Display**

### **10. SRC**

Press to turn the unit on. *Press and hold* to turn the unit off.

When on, press once to select playing mode.

### **11. Rotary Encoder**

Rotate to adjust the volume. While in the audio menu, press and release to enter and/or confirm audio settings.

Press to activate the MUTE function and silence the receiver. Press again to resume sound.

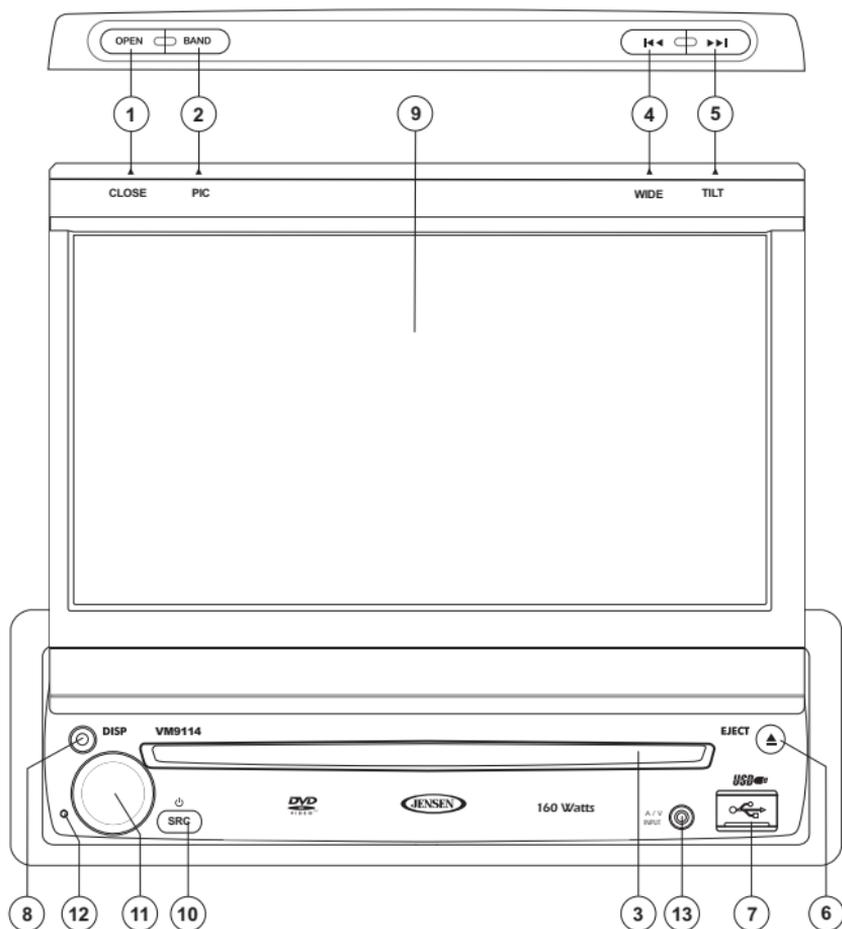
Press and hold to activate the LOC feature. Repeat to deactivate.

## 12. RESET

Press to reset system settings to factory default (except the password and parental lock setting).

## 13. A/V Input

Attach a compatible A/V device.



## **USING THE TFT MONITOR**

### **Open/Close TFT Monitor**

#### ***Open TFT Monitor***

Press the **OPEN** button (1) on the front panel to activate the mechanism that moves the display panel into the viewing position.

#### ***Close TFT Monitor***

Press the **OPEN** button (1) on the front panel to load the display panel back into the compartment.

### **TFT Monitor Auto Open**

If "TFT Auto Open" is "on" when the unit is turned on, the monitor automatically moves to the viewing position.

If "TFT Auto Open" is "off" when the unit is turned on, press the **OPEN** button (1) to move the monitor into the viewing position.

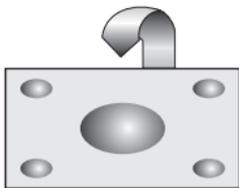
If "TFT Auto Open" is set to "Manual", the TFT will not close when the key is turned off.

### **Monitor Tilt Angle Adjustment**

A known characteristic of TFT panels is the quality of the display in relationship to the viewing angle. The monitor angle can be adjusted for optimum viewing using by pressing the **TILT** button (5) on the unit. While the blue tilt icon is flashing, turn the rotary encoder to adjust the screen angle.

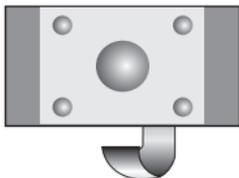
## Aspect Ratio

Press and hold the **WIDE** button (4) on the monitor to adjust the aspect ratio as follows:



### FULL

The entire screen is extended horizontally to the aspect ratio of 16 to 9. The extension ratio is the same at any point.



### NORMAL

The conventional display image has a 4 to 3 ratio of horizontal to vertical, leaving a blank area on the right and left sides of the display.

### STANDBY

Screen becomes black. Touch screen to resume.

## Image/Display Settings

### Video Output Modes

Table 1 shows the video output mode for each playing source.

**Table 1: Video Output Modes**

Playing Source	Video Output Modes
AM/FM TUNER	RGB Mode
DVD	RGB Mode
AUX IN	CVBS Mode

\*CVBS – Composite Video Baseband Signal

### Picture Adjustment

To adjust monitor display settings, perform the following steps:

1. Press the **PIC** button on the monitor (2) repeatedly to move from the “BRIGHT” setting to “CONTRAST”.
2. Turn the rotary encoder to adjust the setting level.

- Press the **PIC** button on the monitor (2) 1-3 times to exit the picture adjustment menu.

## Parking Brake Inhibit

When the pink "Parking" wire is connected to the vehicle Parking Brake circuit, the front TFT monitor will display video when the Parking Brake is engaged. (When the pink wire is grounded via the Parking Brake circuit, video will be displayed.)

## Monitor Movement Mechanism

If an obstruction occurs in the monitor path, the following protective measurements can be executed to prevent damage to the mechanism or monitor:

**Table 2: Monitor Protective Measures**

Obstruction	Self Protection	OPEN Button Pressed	Power Reconnected
Monitor loading out horizontally	Monitor is automatically loaded into unit	Monitor fully extended horizontally	Monitor is automatically loaded into unit
Monitor loading in horizontally	Unit stops at obstruction point	Monitor fully extended horizontally	Monitor is automatically loaded into unit
Monitor loading out vertically	Unit stops at obstruction point	Monitor swivels back to the unit	Monitor swivels back to the unit
Monitor loading in vertically	Unit stops at obstruction point	Monitor swivels back to the unit	Monitor swivels back to the unit

After the protective procedure is executed, normal operation is resumed by pressing the **OPEN** button (1) or disconnecting and reconnecting the power.

# OPERATING INSTRUCTIONS

## Power On / Off

Press the **⏻**/SRC button (10) on the unit to turn the unit on. You can also turn on the unit by pressing the **OPEN** button (1) and opening the TFT screen.

*Press and hold* the **⏻** button to power off the unit. The monitor is drawn back into the main compartment.

## Audible Beep Confirmation

An audible beep tone confirms each function selection. The Beep tone can be disabled through the Setup menu.

## Mute/Line Mute

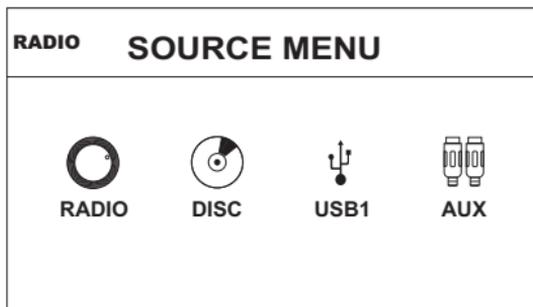
Press the rotary encoder **MUTE** button (11) on the front panel to mute the volume from the unit. Press the rotary encoder button again to restore the volume. Adjusting the volume or using any of the audio setup features cancels the mute function.

## Playing Source Selection

When the monitor is closed, press the **SRC** button (4) to change between available audio playing sources in the following order: RADIO, DISC, USB1, and AUX.

### Source Menu

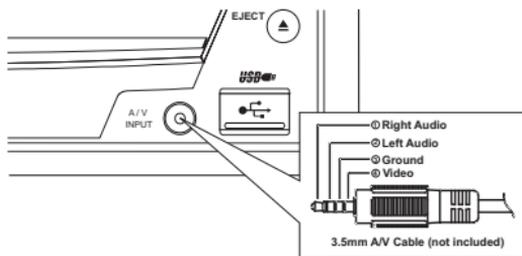
You can also use the touch screen to change the source through the SOURCE MENU. To access the SOURCE MENU, touch the top left corner of the screen or press the **SRC** button on the front panel (10).



Touch the RADIO, DISC, USB1 or AUX button to select the corresponding source.

## External Devices

External peripheral devices, including a game console, camcorder, navigation unit, iPod, Zune, etc. can be connected to this unit via RCA output using an A/V Media Adapter Cable (not included).



Connect the external device to the A/V Media Adapter Cable and then plug the cable into the **A/V INPUT** connector (13) on the front of the radio. Select “AUX” or “AUX IN” (when monitor is closed) mode to access auxiliary devices. You cannot directly control external devices connected to the **A/V INPUT**. For information regarding the use of USB devices, see “Inserting a USB Device” on page 30.

## Volume Adjustment

### Volume Increase/Decrease

To increase or decrease the volume level, turn the rotary encoder (11) on the front panel. When the volume level reaches “0” or “40”, a beep sounds, indicating that the adjustment limit has been reached. The TFT screen displays the volume level for 3 seconds.

### Programmable Turn-On Volume

This feature allows the user to select a turn-on volume setting regardless of the volume setting prior to turning the unit off. To use this feature, the TFT monitor must be displayed.

To program a specific turn-on volume level, turn the rotary encoder (11) to adjust the volume to the desired turn-on volume. *Push and hold* the rotary encoder while the blue speaker icon and level indication is displayed on the screen. The unit will beep to confirm your turn-on volume setting.

## 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. Proper setting of the Fader and Balance boosts the effects of the cabin equalizer.

Touch the **EQ** button on the left side of the screen to display the audio menu. Use the touch screen +/- buttons to adjust the settings for an audio feature.

**Table 3: Audio Adjustments**

Audio Function	Adjustable Range
EQ	User
	Acoustic
	Urban
	Rave
	Latin
	Dance
	Hip Hop
	Rock
BASS	-14 to +14
MID	-14 to +14
TREBLE	-14 to +14
FAD	Grid
BAL	Grid

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**NOTE: The EQ mode will automatically change to "USER" when individual audio functions are adjusted.**

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The Audio menu will automatically exit after a few seconds of inactivity. To exit quickly, touch the top left corner of the screen or *press and hold* the rotary encoder (11).

## System Reset

To correct a system halt or other illegal operation, use the tip of a pen to press the reset button (12) located on the front bottom-right corner of the unit. After a system reset, the unit restores all factory default settings.




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**NOTE: If the unit is reset while a DVD is playing, the DVD resumes play once the reset is complete.**

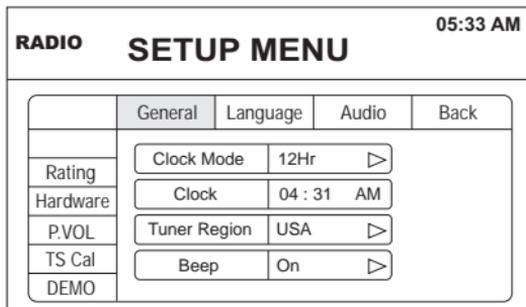
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## Parking Brake Inhibit

When the pink "Parking" wire is connected to the vehicle Parking Brake circuit, the front TFT monitor will display video when the Parking Brake is engaged. (When the pink wire is grounded via the Parking Brake circuit, video will be displayed.)

## SETUP MENU

To access system settings, touch the  button on the screen to enter the “SETUP” menu. The “GENERAL” sub-menu appears highlighted in blue.



### Accessing Menu Items

Touch the sub-menu name to select a sub-menu (Language, Audio, RDS, etc.). The features available for adjustment under the highlighted sub-menu option will appear in the center of the screen.

### Adjusting a Feature

1. Use the touchscreen to select the feature to be adjusted.
2. Enter the option field for the feature you want to adjust by using the touchscreen. A submenu appears in a second row with the selected option highlighted in blue.
3. Select a new value using the touchscreen.
4. Use the touchscreen to confirm setup.

### General Sub-menu Features

Setting	Options	Function
Clock Mode	12Hr	Clock displays 12 hour time using AM and PM.
	24Hr	Clock displays 24 hour time up to 23:59.
Clock	(HH:MM)	Clock appears in the top right corner of the screen during certain operations. NOTE: The AM/PM indication will change as you continue to adjust the hour past 12.
Tuner Region	USA	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 10kHz</li> <li>• AM Frequency Band - 530kHz~1720kHz</li> <li>• FM Frequency Spacing - 200kHz</li> <li>• FM Frequency Band - 87.5MHz~107.9MHz</li> </ul>
	S.Amer1	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 10kHz</li> <li>• AM Frequency Band - 530kHz~1720kHz</li> <li>• FM Frequency Spacing - 100kHz</li> <li>• FM Frequency Band - 87.5MHz~108.0MHz</li> </ul>
	Arabia	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 9kHz</li> <li>• AM Frequency Band - 531kHz~1620kHz</li> <li>• FM Frequency Spacing - 100kHz</li> <li>• FM Frequency Band - 87.5MHz~108.0MHz</li> </ul>
	China	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 9kHz</li> <li>• AM Frequency Band - 522kHz~1620kHz</li> <li>• FM Frequency Spacing - 100kHz</li> <li>• FM Frequency Band - 87.5MHz~108.0MHz</li> </ul>
	S. Amer2	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 5kHz</li> <li>• AM Frequency Band - 520kHz~1600kHz</li> <li>• FM Frequency Spacing - 100kHz</li> <li>• FM Frequency Band - 87.5MHz~108.0MHz</li> </ul>
	Europe	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 9kHz</li> <li>• AM Frequency Band - 522kHz~1620kHz</li> <li>• FM Frequency Spacing - 50kHz</li> <li>• FM Frequency Band - 87.5MHz~108.0MHz</li> </ul>
	Korea	<ul style="list-style-type: none"> <li>• AM Frequency Spacing - 9kHz</li> <li>• AM Frequency Band - 531kHz~1602kHz</li> <li>• FM Frequency Spacing - 200kHz</li> <li>• FM Frequency Band - 88.1MHz~107.9MHz</li> </ul>
	Beep	Off
On		When turned on, an audible beep tone confirms each function selection.

### Language Sub-menu Features

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.

Setting	Options	Function
Language	English	On Screen Display appears in English.
Subtitle	English	DVD subtitles automatically appear in English when available.
	Auto	DVD subtitles appear according to the default subtitle language specified on the disc.
	Off	DVD subtitles do not appear.
Audio	English	DVD Audio is heard in English when the option is available.
DVD Menu	English	DVD menu (if applicable) is displayed in English.

### **Audio Sub-menu Features**

Setting	Options	Function
DRC	Off	Employ the Dynamic Range Control for better playback for low volumes.
	On	
Loudness	Off	Turn bass boost on/off
	On	

### **Rating Sub-menu Features**

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
Set Password	----	Enter a 4-digit password to activate the "Rating" feature.
Parental Ctrl	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	Reset	Select "Reset" to restore the factory default settings for the <i>Rating system only</i> .

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.

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**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, allowing the appropriate content will play. For details, please refer to the disc description.**

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### Hardware Sub-menu Features

If the rear-view video camera is connected, the unit is on, and the TFT monitor is retracted inside the unit, the TFT monitor automatically moves into the viewing position and Camera mode is selected upon shifting into REVERSE gear. When shifting into DRIVE gear, the TFT monitor is retracted back inside unit.

Setting	Options	Function
TFT Auto Open	On	The TFT panel automatically opens when the unit is turned on.
	Off	You must press the <b>OPEN</b> button (1) to open the TFT panel.
	Manual	When the ignition is turned OFF, the TFT panel DOES NOT retract if it was previously out
Video Input (Input circuitry auto-detects the video signal from the Aux In source).	NTSC	The color signals are output in the standard NTSC format.
	PAL	The color signals are output in the standard PAL format.
	Auto	The color signal output is switched automatically based on the current video input signal - NTSC or PAL.

If the monitor is in display mode, the monitor automatically switches to CAMERA mode upon reverse driving. When the reverse driving stops, the monitor return to its original input mode.

### ***P.VOL Sub-menu Features***

<b>Setting</b>	<b>Options</b>	<b>Function</b>
Source	RADIO	Choose a source for which you would like to increase the relative volume (LEVEL).
	DISC	
	USB1	
	AUX	
Level	0-6	Increase relative volume for specified source up to 6 decibels.

### ***TS Cal (Screen Calibration)***

To access the "Screen Calibration" function from the SETUP menu, select the "TS CAL" option.

After entering calibration mode, a crosshair + appears in a corner quadrant of the screen. To begin calibration, touch and hold the crosshair for one second until it moves to the next quadrant. Continue for each quadrant until the calibration is completed.

### ***Demo Sub-Menu Features***

You can stop/run demonstration mode or turn Demo Auto Run on/off by choosing the "Demo" option from the SETUP MENU.

When Demo "Auto Run" is Off, you can select "Demo > Run" to start Demo Mode. Demo scrolls through the various source screens, simulating activity on the display. "Demo" is discreetly displayed in blue text (below the clock), to indicate the unit is in Demo Mode. To stop Demo Mode, touch the upper-left quadrant of the TFT (Source select).

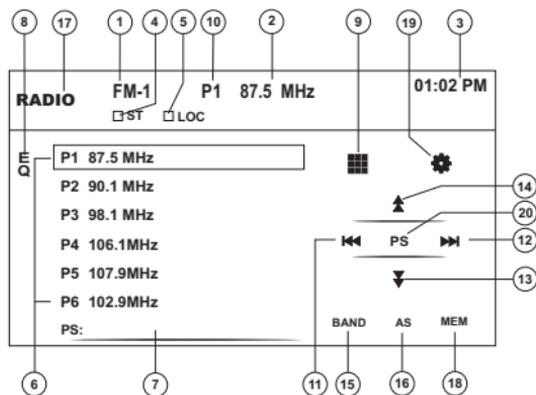
When Demo "Auto Run" is On, the unit will automatically display Demo Mode when powered on.

### **Exiting the System Setup Menu**

To exit setup mode and resume normal playback, touch the **BACK** button on the screen.

# TUNER OPERATION

## Tuner TFT Display



1. Current radio band indicator
2. Radio frequency indicator
3. Clock
4. Stereo broadcasting indicator
5. Strong Local signal broadcasting indicator
6. Preset radio stations: Touch to recall preset stations
7. Information about the current function
8. **EQ**: Touch for quick access to Equalizer level settings
9. : Touch to access the direct entry screen
10. Current preset station indicator
11. : Touch to seek backward
12. : Touch to seek forward
13. : Touch to tune backward one step
14. : Touch to tune forward one step
15. **BAND**: Touch to change between AM/FM bands
16. **AS**: Touch to automatically store stations
17. Touch to view the SOURCE MENU and select a new playback source
18. **MEM**: View screen used to enter current channel into preset memory
19. : Touch to view the SETUP menu
20. **PS** (Preview Scan): Touch to scan all stations available, stopping for 5 seconds at each and continuing until a station is selected

## Switching to Radio Tuner Source

- Touch the top left corner of the screen to view the SOURCE MENU. Touch “Radio”.
- Press the **SRC** button (10) on the front panel or remote control (8) to switch to the AM/FM or RADIO source.

## Selecting FM/AM Band

Touch the **BAND** button (15) on the screen to change between the following bands: FM1, FM2, FM3, AM1, and AM2.

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**NOTE:** The **BAND** button on the unit only works when the TFT is closed.

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## Seek Tuning

To seek the next higher station, touch the ►►| button on screen.

To seek the next lower station, touch the |◄◄ button on screen.

## Manual Tuning

To increase or decrease the tuning frequency one step, touch the ►► or ◄◄ buttons on screen.

## Direct Tuning

To enter a radio station directly, touch the ■■■ button to display the direct entry menu.

FM: _ _ _ . _ _ MHz			
1	2	3	Exit
	4	5	
7	8	9	Enter
0	Clear		

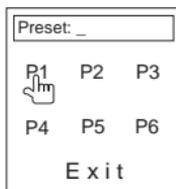
Enter the desired radio station using the on-screen number pad. Press the **Enter** button to tune to the selected station. To exit the screen without changing the station, touch **Exit**. To clear your entry and start over, touch **Clear**.

## Using Preset Stations

Six numbered preset buttons store and recall stations for each band. All six stored stations (P1-P6) for the current band appear on the screen.

### Storing a Station

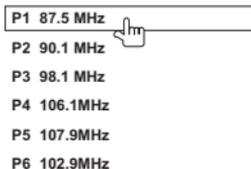
1. Select a band (if needed), then select a station.
2. Touch the on-screen **MEM** button (18) to open the preset screen.



3. Touch the preset number in which you would like to store the current station (or touch **Exit** to cancel and close the menu). The preset number and station appears highlighted.

### Recalling a Station

1. Select a band (if needed).
2. Touch an on-screen preset button (6) to select the corresponding stored station.



## Auto Store/Preview Scan (AS/PS)

### Auto Store (AS)

To select six strong stations and store them in the current band:

1. Select a band (if needed).
2. Touch the **AS** button (16) on page 2/2 of the on-screen controls to activate the Auto Store function.

The new stations replace stations already stored in that band.

### Preview Scan (PS)

To scan the AM or FM band for a preview of available stations in your particular area, touch the **PS** button (20). Touch again to stop preview scan.

## Local Radio Station Seeking (LOC)

When the Local function is on, only radio stations with a strong local radio signal are played. To activate the Local function in AM/FM tuner mode, *press and hold* the rotary encoder (11). When the Local function is active, the LOC indicator at the top of the screen is illuminated.

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## DVD/VCD VIDEO OPERATION

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**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 display a parking brake notice. Rear video screens, if applicable, will operate normally.

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### Opening/Closing the TFT Video Screen

#### **Opening the TFT Screen**

To open the TFT video screen, press the **OPEN** button (1). The unit beeps and then opens.

#### **Closing the TFT Screen**

Press the **OPEN** button (1) again to close the TFT screen. If the screen is in the "IN" position, it moves out before closing.

### Inserting a Disc

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

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**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 Sub-menu Features" on page 13).

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

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**NOTE:** DVD-R and DVD-RW will not play unless the recording session is finalized and the DVD is closed.

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### Ejecting a Disc

Press the **▲** button (6) on the front panel to eject the disc. The unit automatically reverts to Tuner mode. You may eject a disc with the unit powered off. The unit will remain off after the disc is ejected.

### Resetting the Loading Mechanism

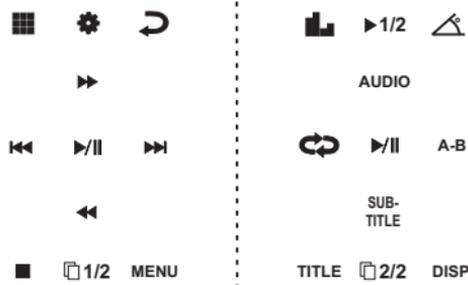
If the disc loads abnormally or an abnormal core mechanism operation occurs, press and hold the **▲** button (6) on the front panel to reset the loading mechanism. Normal operation resumes.

### Accessing DVD Mode

To switch to DVD mode when a disc is already inserted, press the **SRC** button (10) on the front panel.

## Controlling Playback

To access the on-screen controls, touch the bottom 1/3 of the screen while a DVD is playing. Touch the **1/2** button to view a second page of controls



### Stopping Playback

Touch the stop button (■) on the screen to stop DVD play.

### Pausing Playback

Touch the play/pause button (▶/||) on the screen to suspend or resume disc play.

### Slow Motion Playback (Forward and Reverse)

Touch the ▶1/2 button on the screen to play the current title in slow motion. Keep pressing and releasing the button to change the rate from forward 1/2, 1/4, 1/6 and 1/8 speed. Continue for slow motion backward at 1/2, 1/4, 1/6 and 1/8 speeds.

Touch the on-screen play button (▶/||) to resume normal play.

### Fast Forward Playback

Press the ▶▶ button on the screen to fast forward. Keep pressing and releasing the button to increase the rate from “x2” to “x4”, “x8”, and “x20”.

Touch the on-screen play button (▶/||) to resume normal play.

### Fast Reverse Playback

Touch the ◀◀ button on the screen to fast reverse. Keep pressing and releasing the button to increase the rate from “x2” to “x4”, “x8”, and “x20”.

Touch the on-screen play button (▶/||) to resume normal play.

### Repeat Playback

Touch the ↻ button on screen to alter repeat mode according to the following:

- DVD: Repeat Chapter, Repeat Title, Repeat Off

- VCD (PBC Off): Repeat Single, Repeat Off

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

### Sectional Repeat Function (A-B)

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

- Touch the **A-B** button on the second page of DVD on-screen controls to set the start point (A) of the repeated section.
- Touch 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.
- Touch the **A-B** button a third time to cancel the A-B section setting and stop repeat play.

### Accessing the DVD Menu

- Touch the **MENU** button on the first page of DVD on-screens controls to recall the main DVD menu. Touch to select a title from the menu.
- Touch the **TITLE** button on the second page of DVD on-screen controls to select a different title for playback.
- Select a title using the touch screen.

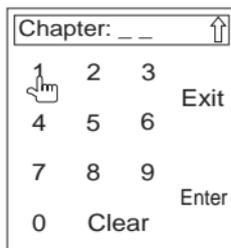
### Moving Through Chapters

Touch the **▶▶** button to advance to the next chapter on the DVD.

Touch the **◀◀** button to move to the previous chapter.

### Direct Chapter / Track Selection

To select a chapter/track directly, touch the on-screen button to display the direct entry menu.



Enter the desired chapter/track using the on-screen number pad. Touch the **Enter** button to tune to the selected station. To exit the screen without changing the station, touch **Exit**. To clear your entry and start over, touch **Clear**.

## 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, touch the  button on the second page of DVD on-screen controls to toggle available angles of the on-screen image.

## Multi-Language Discs (DVD Only)

### **Changing Audio Language**

If you are watching a disc recorded in multiple languages, touch the **AUDIO** button on the second page of DVD on-screen controls to choose a language.

### **Changing Subtitle Language**

If you are watching a disc recorded in multiple languages with subtitles, touch the **SUBTITLE** button on the second page of DVD on-screen controls to choose the language in which you would like the subtitles to appear.

---

**NOTE: During VCD playback, touch the AUDIO button on the second page of DVD on-screen controls to choose between Left Channel, Right Channel, and Stereo.**

---

## PBC - Play Back Control (VCD Only)

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

Touch the **PBC** button on the first page of DVD on-screen controls 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 direct track selection are not available.**

---

When PBC is activated, selecting random, scan, or search playback automatically deactivates PBC.

## Playback Information

During DVD and VCD playback, touch the **DISP** button on the second page of DVD on-screen controls to display playback information on the screen, including the media playing and current playback time.

### **DVD Playback Information**

- DVD Video – Format of current disc.
- Time 00:01:30/00:36:10 – Indicates the playback time of the current track.
- Title 5/08 – Indicates the fifth of 8 titles on the DVD is currently playing.

- Chapter 2/16 – Indicates that the second of 16 chapters on the DVD is currently playing.

### VCD Playback Information

- VCD2.0 – Format of current disc.
- Time 00:01:30/00:36:10 – Indicates the playback time of the current track.
- PBC On/Off – Indicates whether Play Back Control is On or Off.

## General Disc Information

Table 4: Disc Properties

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

Table 5: 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.

**Table 5: Disc Symbols**

Symbol	Meaning
	<p>Indicates the region code where the disc can be played.</p> <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>

## DVD/CD AUDIO OPERATION

Instructions for TFT control and Insert/Eject are the same for DVD and CD operation. Please see the DVD/Disc Video Operation section for information about these topics.

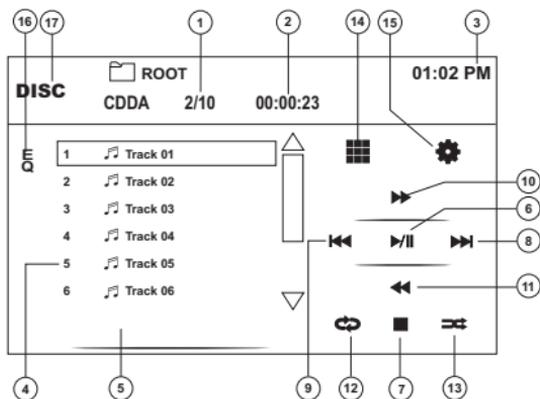
The VM9114 will play music or other audio files from the following disc media:

- CD-DA
- CD-R/RW
- DVD
- DVD+R/RW
- DVD-R/RW

Upon inserting a disc with the TFT screen open, the disc and track title (if available), along with the track number and playing time appear on the screen.

### CD Player User Interface

The on-screen indicators and touch key areas for CD playback are outlined below.



1. Current track and total number of tracks on disc
2. Elapsed playing time
3. Current time
4. Track titles
5. Disc title
6. ▶/||: Touch to play/pause disc playback
7. ■: Touch to stop disc playback
8. ▶▶: Touch to move to next track
9. ◀◀: Touch to move to previous track
10. ▶▶▶: Touch to fast forward current track

11. ◀◀: Touch to rewind current track
12. ⏮: Touch to activate/deactivate Repeat play mode
13. ⏭: Touch to activate/deactivate Random mode
14. 📄: Touch to access the direct entry screen
15. ⚙️: Touch to view the SETUP menu
16. EQ: Touch for quick access to Equalizer level settings
17. Touch to view the SOURCE MENU and select a new playback source

## Controlling Playback

### **Stopping Playback**

Touch the ■ button to stop disc play.

To resume playback, touch the ▶|| button.

### **Pausing Playback**

Touch the ▶|| button to suspend or resume disc play.

### **Moving Through Tracks**

Touch the ▶▶| button to advance to the next track on the disc.

Touch the |◀◀ button to move to the previous track.

### **Repeat Playback**

Touch the ⏮ button to alter repeat mode according to the following:

- DVD: Repeat Chapter, Repeat Title, Repeat Off
- CDDA: Repeat Single, Repeat Folder, Repeat Off
- CD-R/RW: Repeat Single, Repeat Off
- DVD-R/RW: Repeat Single, Repeat Off

### **Track Scan Select (CD-DA discs only)**

During disc play, touch the on-screen **SCAN** button to play the first 10 seconds of each track. When a desired track is reached, touch the **SCAN** button again to cancel the function and play the selected track.

### **Random Play Select**

While disc play is stopped, touch the ⏭ button to play the tracks on the disc in a random, shuffled order. Touch the ⏭ (RDM) button again to cancel Random Play mode.

---

**NOTE: CD-R and CD-RW will not play unless the recording session is finalized.**

---

### **Fast Forward**

Touch the ►► button to fast forward. Keep pressing and releasing the button to increase the rate from “x2” to “x4”, “x8”, and “x20”. Touch the ►|| button to resume normal playback.

### **Direct Track Entry**

To select a track directly, touch the on-screen  button to display the direct entry menu.

Chapter: _ _			
1 	2	3	Exit
4	5	6	
7	8	9	Enter
0	Clear		

Enter the desired track using the on-screen number pad. Press the **Enter** button to tune to the selected station. To exit the screen without changing the station, touch **Exit**. To clear your entry and start over, touch **Clear**.

## **MP3/WMA OPERATION**

Instructions for TFT control and Insert/Eject are the same for DVD and MP3 operation. Please see the DVD/Disc Video Operation section for information about these topics.

### **Media and File Requirements**

This player allows you to play back MP3 and WMA files recorded onto CD-R/RWs, DVD+R/RWs, and DVD-R/RWs. For CD-RW discs, please make sure it is formatted using the full method and not the quick method to prevent illegal disc operation.

Up to 1500 songs/files can be burned onto a disc for a DVD music mix. Do not exceed this number of songs/files or disc readability problems may occur.

#### ***MP3 Format Compatibility***

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. Use the following settings when compressing audio data for your MP3 disc:

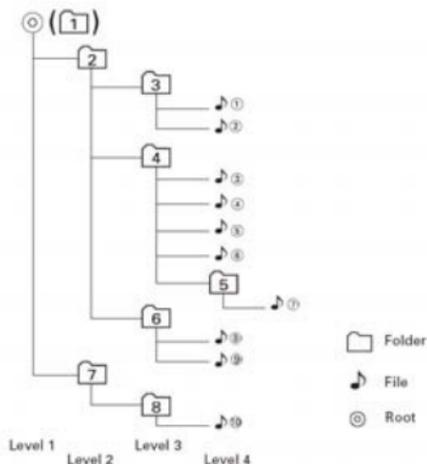
- Transfer Bit Rate: 128kbps
- Sampling Frequency: 48kHz

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.

#### ***MP3 Playing Order***

When selected for play, files and folders (Folder Search, File Search or Folder Select) are accessed in the order they were written by the CD writer. As a result, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3/WMA files are to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99".

For example, a medium with the following folder/file hierarchy is subject to Folder Search, File Search or Folder Select, as shown below.

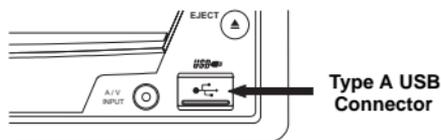


The VM9114 player will only recognize three folder levels and does not display folders containing only other folders. In the example above, the unit will display folders 3, 4, 6, and 8, but not 2 and 7 since they do not contain any tracks directly. Folder 5 is not recognized at all since it is at the fourth level.

## Inserting a USB Device

**NOTE: The USB port will recognize most USB flash memory devices and portable hard drives (hard drives must be formatted to FAT32 and NTFS is not supported).**

1. Locate the USB connector (14) on the front of the radio.

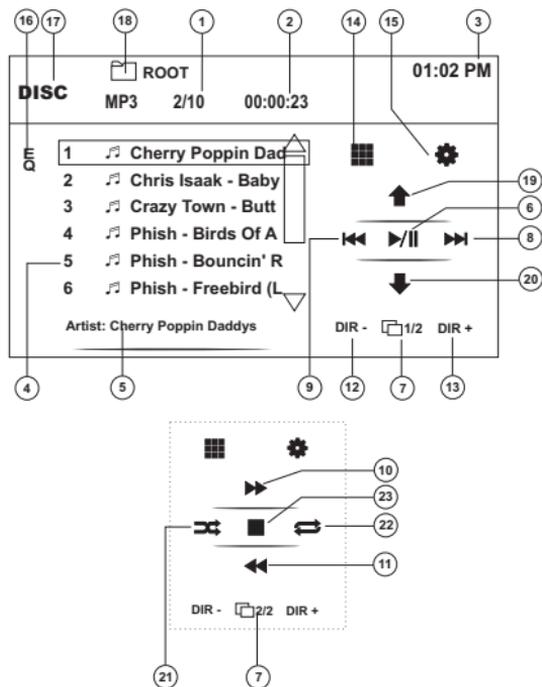


2. Lift the protective cover to reveal the USB slot.
3. Insert the USB device into the USB connector. The unit will read the audio/video files on the USB device automatically.

To remove the USB device, press the **SRC** button (10) or use the SOURCE MENU to switch to another mode, and then remove the USB device from the connector.

## MP3 User Interface

The on-screen indicators and touch key areas for MP3 playback are outlined below.



1. Current track and total number of tracks on disc
2. Elapsed playing time
3. Current time
4. Track titles
5. ID3 information
6. : Touch to play/pause disc playback
7. : Touch to move between page 1 and 2 of the on-screen controls
8. : Touch to move to next track
9. : Touch to move to previous track
10. : Touch to Fast Forward x2, x4, x8, x20

11. ◀◀: Touch to Fast Backward x2, x4, x8, x20
12. DIR -: Touch to view the previous folder
13. DIR +: Touch to view the next folder
14. ■■: Touch to access the direct entry screen
15. ⚙: Touch to view the SETUP menu
16. EQ: Touch for quick access to Equalizer level settings
17. Touch to view the SOURCE MENU and select a new playback source
18. Folder name
19. ⬆: Page Up
20. ⬇: Page Down
21. ⌘: Random On > Random Off
22. ↻: Repeat Single > Repeat Folder > Repeat Off
23. ■: Touch to stop disc playback

## Controlling Playback

### *Playing MP3/WMA Files*

After inserting a MP3/WMA disc, files will play in the sequence of the "Root" directory.

---

**NOTE: When burning MP3 / WMA files onto a DVD disc, use the 2X or 4X burning option, if available. This slower burning speed will help eliminate buffer errors and increase disc reading reliability. Also, use folders when burning large numbers of songs / files to a disc for easy music navigation. Select the "Disc at Once" option and close your disc.**

---

### *Stopping Playback*

Touch the ■ button to stop disc play.

To resume playback, touch the ▶/|| button.

### *Pausing Playback*

Touch the ▶/|| button to suspend or resume disc play.

### *Moving Through Tracks*

Touch the ▶▶| button to advance to the next track on the disc.

Touch the |◀◀ button to move to the previous track.

### *Repeat Playback*

Touch the ↻ button to alter repeat mode according to the following: Repeat Single, Folder Repeat, Repeat Off.

---

**NOTE: CD-R and CD-RW will not play unless the recording session is finalized.**

---

***Direct Track Entry***

Touch the  button to access files directly (see “Direct Track Entry” on page 28).

# TROUBLESHOOTING

**Table 6: Troubleshooting**

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
	Speaker wiring is in contact with metal part of car	Insulate all speaker wiring connections
Poor sound quality or distortion	Pirated disc is in use	Use original copy
	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker contact
Unit resets itself when engine is off	Incorrect connection between ACC 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 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 TV system settings	Change setup to accommodate disc
	Improper video signal connections	Check wiring and correct

**Table 6: Troubleshooting**

<b>Problem</b>	<b>Cause</b>	<b>Corrective Action</b>
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
Image blurred, distorted, or dark	Disc is illegally copied	Use original disc
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
	Laser pickup is dirty	Clean laser pickup with cleaning disc
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change Parental Lock settings to lower 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
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
<b>MP3</b>		

**Table 6: Troubleshooting**

Problem	Cause	Corrective Action
Interruption occurred during playback	Disc is dirty or scratched	Clean disc or replace
	File is damaged/bad recording	Recreate disc with good files

## Error Messages

**Table 7: 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 EJECT key for 5 seconds to reset loading mechanism

## Care and Maintenance

1. Use only a 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. Do not get water or cleaning fluids on the unit.
3. If the temperature inside the player gets too hot, a protective circuit automatically stops play of the disc. If this occurs, allow the unit to cool 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 damage to the player and/or disc may occur. Such damage is not covered by the Warranty on this product.

6. The CD player may not operate properly in extreme hot or cold. If such conditions occur, allow the interior of the vehicle to reach a normal temperature before using player.
7. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the TFT panel. Should this occur, the screen will not operate properly until the moisture has evaporated.
8. We suggest you use a cleaning disc in this unit more frequently than in the unit in your home due to the environmental conditions of the vehicle.

## **SPECIFICATIONS**

### ***DVD/CD Player***

Compatible Disc Media: DVD  $\pm$  R / RW (Single and Dual Layer) and CD-R / RW

Compatible Media Formats: CD-DA, MP3, WMA, VCD, SVCD, Xvid, AVI, MPEG 1/2

Signal to Noise Ratio: >95dBA

Dynamic Range: >95dB

Frequency Response: 20Hz to 20 kHz, -3dB

Channel Separation: > 60dB @ 1 kHz

D/A Converter: High performance 24-bit / 192 kHz sample rate, Multi-Bit Sigma-Delta Modulator

### ***Video***

Format: NTSC, PAL (auto-detection)

Output: 1Vp-p (75-ohm)

Input: 1Vp-p (75-ohm)

### ***FM Tuner***

Tuning Range: 87.5MHz - 107.9MHz

Mono Sensitivity (-30dB): 9dBf

Quieting Sensitivity (-50dB): 15dBf

Alternate Channel Selectivity: 70dB

Signal to Noise Ratio @ 1 kHz: 58dB

Image Rejection: 80dB

Stereo Separation @ 1 kHz: >30dB

Frequency Response: 30Hz - 15 kHz, -3d

### ***AM Tuner***

Tuning Range: 530 kHz - 1720 kHz

Sensitivity (-20dB): 15uV

Signal to Noise Ratio @ 1 kHz: 50dB

Image Rejection: 60dB

Frequency Response: 50Hz - 2 kHz, -3dB

### ***Monitor***

Screen Size: 7.0" (Measured diagonally), 16:9 Widescreen, 6.06" (154.1mm)  
W X 3.42" (87mm) H

Screen Type: TFT Liquid Crystal Display (LCD) active matrix

Resolution: 336,960 sub pixels, 1440 (W) X 234 (H)

### ***General***

Auxiliary Input impedance: 10k

Power Supply: 11 to 16VDC, negative ground

Power Antenna (Blue): 500mA max, current limited protection

Amplifier Remote (Blue/White): 500mA max, current limited protection

Operating Temperature: -20C ~ 65C

Fuse: 15-amp, mini ATM type

DIN chassis dimensions: 7" X 7" X 2" (178mm x 178mm x 50mm)

### **CEA Power Ratings**



Power Output: 13 Watts RMS x 4 channels into 4-Ohms @  $\leq$  1% THD+N

Signal to Noise Ratio: 70dBA below reference (Reference: 1 Watt, 4-Ohms)

Frequency Response: 20 Hz - 20 kHz, -3dB. (Aux Input used as reference input)

Reference Supply Voltage: 14.4VDC

*\*Specifications subject to change without notice.*





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