



# XHDR6435

## INSTALLATION/OWNER'S MANUAL

CD Receiver with Detachable Face

COMPACT  
**disc**  
DIGITAL AUDIO

**MP3**

**WMA**

**USB**



**HD** Radio<sup>®</sup>  
R E A D Y

**Bluetooth**<sup>®</sup>  
R E A D Y

**Dual**<sup>®</sup>



## Preparation

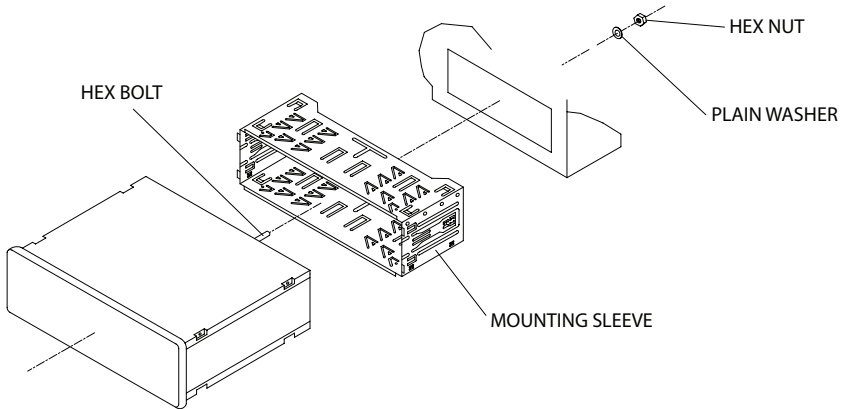
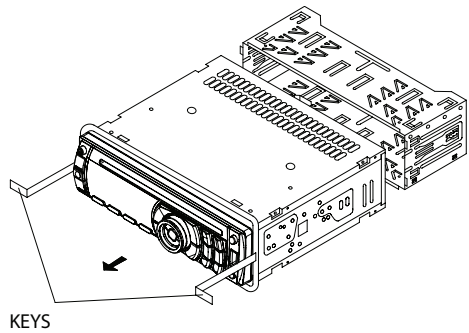
Please read entire manual before installation.

### Before You Start

- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

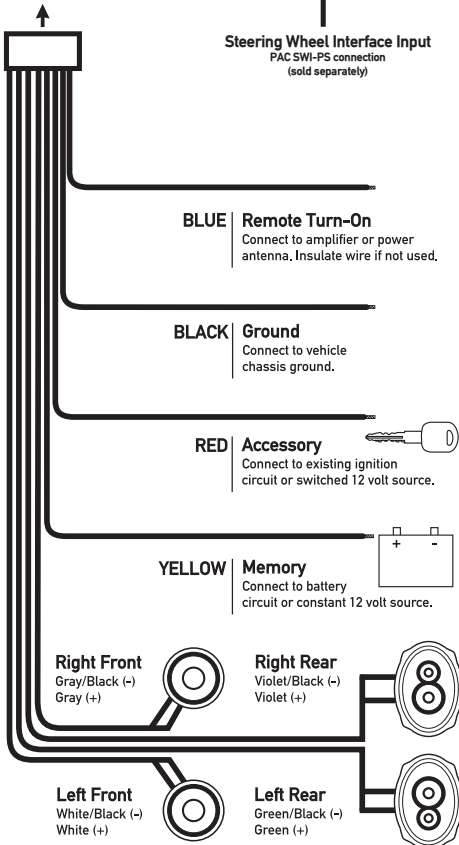
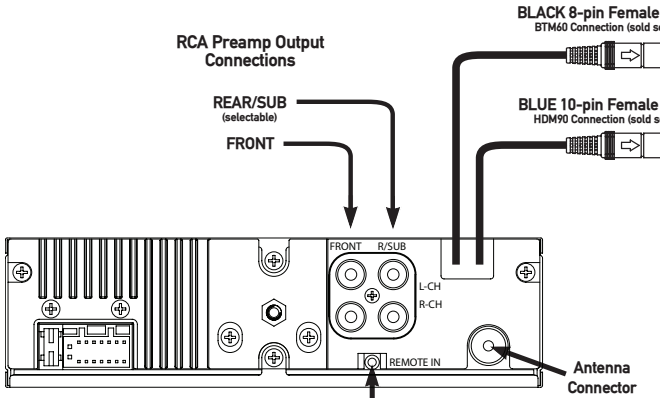
### Getting Started

- Remove trim ring from unit.
- Remove 2 transit screws located on top of the unit.
- Insert the supplied keys into the slots as shown, and slide the unit out of the mounting sleeve.
- Install mounting sleeve into opening, bending tabs to secure.
- Connect wiring harness and antenna. Consult a qualified technician if you are unsure.
- Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
- Test for correct operation and slide into mounting sleeve to secure.
- Snap trim ring into place.



### TYPICAL FRONT-LOAD DIN MOUNTING METHOD

# Wiring Diagram

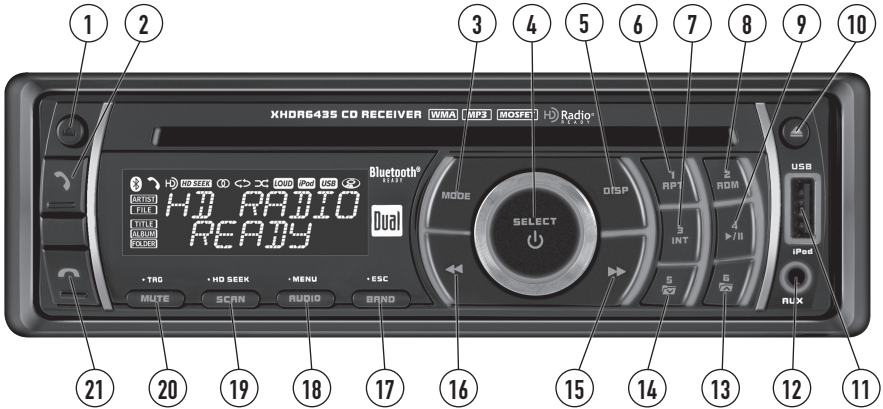


**FUSE**

When replacing the fuse, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio. The XHDR6435 uses one 10 amp ATM fuse located beside the wiring connector.

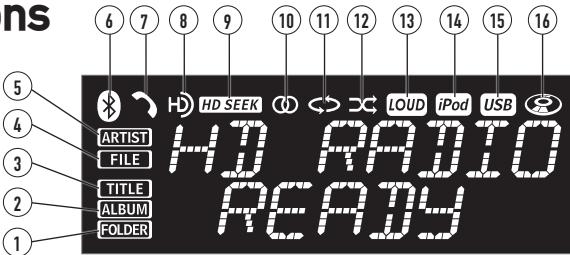


# Control Locations - Receiver



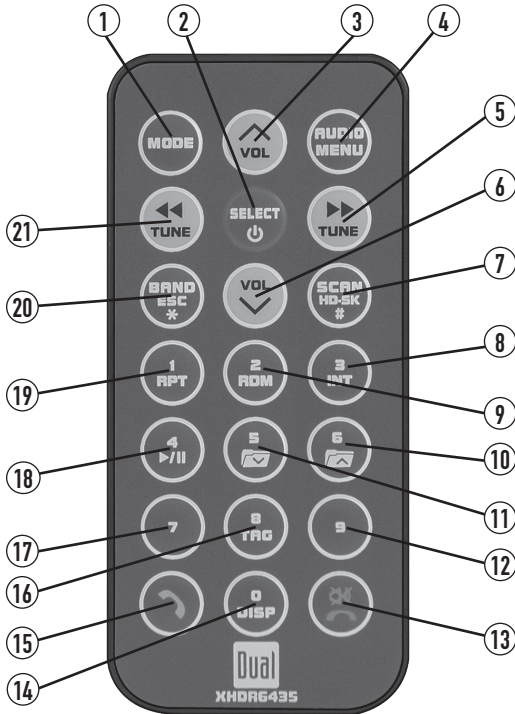
- |                      |                           |                      |
|----------------------|---------------------------|----------------------|
| 1 Release            | 8 Preset 2 / Random       | 15 Tune / Track Up   |
| 2 Talk               | 9 Preset 4 / Play / Pause | 16 Tune / Track Down |
| 3 Mode               | 10 CD Eject               | 17 Band / ESC        |
| 4 Power (⏻) / Select | 11 USB Port               | 18 Audio / Menu      |
| 5 Display            | 12 Auxiliary Input        | 19 Scan / HD Seek    |
| 6 Preset 1 / Repeat  | 13 Preset 6 / Folder Up   | 20 Mute / Tag        |
| 7 Preset 3 / Intro   | 14 Preset 5 / Folder Down | 21 End Call          |

## LCD Icons



- |               |                       |                         |                           |
|---------------|-----------------------|-------------------------|---------------------------|
| 1 Folder Name | 5 Artist Name         | 9 HD Seek Mode          | 13 Loudness               |
| 2 Album Name  | 6 Bluetooth Connected | 10 Stereo/Mono          | 14 iPod® Device Connected |
| 3 Song Title  | 7 Phone Call          | 11 Repeat Song          | 15 USB Device Connected   |
| 4 File Name   | 8 HD Radio Station    | 12 Random Song Playback | 16 CD Loaded              |





## Control Locations - Remote



- |                          |                           |
|--------------------------|---------------------------|
| ① Mode                   | ⑫ Key 9                   |
| ② Power (⏻)/Select       | ⑬ Mute / End Call         |
| ③ Volume Up              | ⑭ Key 0 / Display         |
| ④ Audio / Menu           | ⑮ Talk                    |
| ⑤ Tune / Track Up        | ⑯ Key 8 / Tag             |
| ⑥ Volume Down            | ⑰ Key 7                   |
| ⑦ Scan / HD Seek / Key # | ⑱ Preset 4 / Play / Pause |
| ⑧ Preset 3 / Intro       | ⑲ Preset 1 / Repeat       |
| ⑨ Preset 2 / Random      | ⑳ Band / ESC / Key *      |
| ⑩ Preset 6 / Folder Up   | ㉑ Tune / Track Down       |
| ⑪ Preset 5 / Folder Down |                           |



## General Operation

Faceplate Removal	Press <b>RELEASE</b> and pull away from the left side to remove. To re-install, insert right side of faceplate first then push left side to secure.
Semi-Permanent Faceplate Installation	Remove trim ring and install supplied #1 x 7/32" Phillips head screw through left side of mounting frame into faceplate.
Power On/Off	Press  or any other button (except eject) to turn the unit on. Inserting a disc will turn the unit on automatically. Press and hold  to turn the unit off.
Mode	Press <b>MODE</b> to select between AM/FM, CD player, operation of iPod, USB, auxiliary input and Bluetooth modes. Modes of operation are indicated in the display.  <b>Note:</b> "HD RADIO" will appear when the HDM90 HD Radio™ tuner is connected (sold separately). CD mode will not appear unless a CD is inserted. USB mode will not appear unless a USB device is connected. Operation of iPod mode will not appear unless an iPod device is connected. Bluetooth mode will not appear unless the BTM60 Bluetooth module is connected.
Auxiliary Input	Insert 3.5 mm plug to connect your portable audio device.
Steering Wheel Interface Input	The steering wheel interface input located on the back of the head unit allows connection to the <b>PAC (Pacific Accessory Corporation) SWI-PS</b> interface module (sold separately). Visit <a href="http://www.pac-audio.com">www.pac-audio.com</a> for details.  To configure steering wheel controls, follow the instructions provided with the <b>PAC SWI-PS</b> interface module. After installing the interface module, insert the module's 3.5mm jack into the port on the back of the head unit.
Volume	Adjust volume using volume knob (00-46).
Mute	Press <b>MUTE</b> to silence the audio. "MUTE" will flash in the display. Press <b>MUTE</b> again to cancel.
Reset	Press to <b>RESET</b> the unit upon initial installation or if abnormal operation occurs. The reset button is located behind the faceplate.
Display	Press <b>DISP</b> to select between clock and different types of information, such as radio frequency, CD track or MP3 CD/USB song information.
Set the Clock	With the unit on, press and hold <b>DISP</b> until the clock begins to flash, then release. Press <b>TUNE</b>  to adjust the hours and <b>TUNE</b>  to adjust the minutes. Press <b>DISP</b> momentarily to save the selected time.

## General Operation

**Setup Menu** | Press and hold **AUDIO/MENU** for more than 3 seconds to access the setup menu, then press **AUDIO/MENU** to cycle through menu options. When desired option appears in the display, rotate the **volume knob** left/right to adjust or activate the desired function. Press **ESC** to exit the menu at any time.

## Setup Menu

Menu Function	Options	Action
Auto Station Store	AUTO PGM STATIONS	Press <b>SELECT</b> to seek and save 6 strong stations in the current band. (Tuner mode only)
Delete Tags	DEL TAGS	Press <b>SELECT</b> to permanently delete all iTunes tags currently saved in the unit. (HDM90 required for HD Radio function.)
Tuning Mode	TUNER DIGITAL	Programs the unit to tune to digital and analog radio stations. (HDM90 required for HD Radio function.)
	TUNER ANALOG	Programs the unit to tune to analog radio stations only. (HDM90 required for HD Radio function.)
Local/Distance Tuning	LOCAL OFF	Activates standard distance tuning.
	LOCAL ON	Activates local tuning for strong stations only.
Frequency Spacing	FREQ'NCY USA	Activates USA frequency spacing (not available when HDM90 is connected).
	FREQ'NCY EURO	Activates EURO frequency spacing (not available when HDM90 is connected).
Loudness Curve	LOUD OFF	Disables the loudness function.
	LOUD ON	Enables the loudness function. Activating this feature will enhance the bass and treble frequencies when listening to music at low volumes.
Clock Display	CLOCK OFF	Programs unit to not display the clock when the power is off.
	CLOCK ON	Programs unit to display the clock when the power is off.
Auxiliary Input	AUX-IN ON	Enables the front panel 3.5mm auxiliary input.
	AUX-IN OFF	Disables the front panel 3.5mm auxiliary input.
Rear/Sub RCA output	REAR/SUB SUB	Programs the Rear/Sub RCA preamp output to subwoofer.
	REAR/SUB REAR	Programs the Rear/Sub RCA preamp output to rear.
Beep Confirmation	BEEP OFF	Disables the confirmation beep.
	BEEP ON	Enables the confirmation beep.
Programmable Turn On Volume	PROG-VOL #	Programs unit to turn on at a specific volume (default is OFF).
Power on Message	MESSAGE OFF	Disables power on message.
	MESSAGE ON	Enables power on message to be displayed.
Scrolling Option	SCROLL 15 SEC	Programs unit to scroll information once every 15 seconds (default).
	SCROLL ONCE	Programs unit to scroll once, then show first 10 characters on display.
	SCROLL ON	Programs unit to scroll continuously.
	SCROLL OFF	Programs unit to show the first 10 characters on the display.
Illumination Dimmer	DIMMER HIGH	Programs unit to the brightest illumination level.
	DIMMER MEDIUM	Programs unit to the middle illumination level.
	DIMMER LOW	Programs unit to the dimmest illumination level.
Demonstration Mode	DEMO OFF	Disables the demonstration mode.
	DEMO ON	Enables the demonstration message.




## General Operation

<b>Escape</b>	Press <b>ESC</b> to exit any menu adjustment mode.
<b>Audio</b>	<p>Press <b>AUDIO/MENU</b> momentarily to select between Bass, Treble, Balance, Fader, EQ, Subwoofer* and Source Volume Level.</p> <p>→ BASS → TREBLE → BALANCE → FADER → EQ → SUBWOOFER* → SOURCE LEVEL →</p>
<b>Bass</b>	Press <b>AUDIO/MENU</b> until <b>BASS</b> appears, then rotate the <b>volume knob</b> left/right to adjust (-6 minimum / +6 maximum).
<b>Treble</b>	<p>Press <b>AUDIO/MENU</b> until <b>TREBLE</b> appears, then rotate the <b>volume knob</b> left/right to adjust (-6 minimum / +6 maximum).</p> <p><b>Note:</b> Bass and Treble settings are saved as the <b>USER EQ</b> setting.</p> <p><b>Note:</b> Bass and Treble settings are retained for each mode individually.</p>
<b>Balance</b>	Press <b>AUDIO/MENU</b> until <b>BALANCE</b> appears, then rotate the <b>volume knob</b> left/right to adjust (BALANCE LEFT 12 to BALANCE RIGHT 12). BALANCE EVEN represents equal balance.
<b>Fader</b>	Press <b>AUDIO/MENU</b> until <b>FADER</b> appears, then rotate the <b>volume knob</b> left/right to adjust (FADER FRONT 12 to FADER REAR 12). FADER EVEN represents equal fader.
<b>EQ</b>	Press <b>AUDIO/MENU</b> until <b>EQ</b> appears. Rotate the <b>volume knob</b> left/right to select between FLAT (default), POP, JAZZ, CLASSIC, BEAT, ROCK and USER equalization curves. Press <b>SELECT</b> to confirm. Any manual adjustment to the Bass or Treble settings are automatically saved as <b>USER</b> .
<b>Subwoofer</b>	Press <b>AUDIO/MENU</b> until <b>SUBWFR</b> appears, then rotate the <b>volume knob</b> left/right to adjust (0-12). Adjusting levels to 0 turns the subwoofer off.
<b>Source Volume Level</b>	<p>The source volume level control allows a gain adjustment for each audio source: AM, FM, CD, AUX, USB, operation of iPod and Bluetooth. Set the source volume level for each mode, depending on the relative volume of each audio source.</p> <p>To set the source volume level, press <b>AUDIO/MENU</b> until <b>SOURCE LEVEL</b> appears. After one second, the current mode will appear on the display. Turn the <b>volume knob</b> to adjust the audio level of the current source (-6 minimum/+6 maximum).</p> <p><b>Note:</b> Only the current mode will be available for adjustment. To adjust another mode of operation, press <b>MODE</b> until the desired mode is selected, then set the source volume level for that mode.</p>



## AM/FM Tuner Operation

<b>Display</b>	<p>When using the XHDR6435 without the optional HDM90, press <b>DISP</b> to toggle the display between the following options:</p>
	 <pre> (LINE 1)  FREQUENCY  →  FREQUENCY (LINE 2)  ┌ BAND/PRESET ─┬─&gt; FREQUENCY               └──────────┘  CLOCK           </pre>
<b>Seek Tuning</b>	<p>Press <b>TUNE</b> ◀◀ or <b>TUNE</b> ▶▶ for more than one second to seek the next strong station.</p>
<b>Manual Tuning</b>	<p>Press <b>TUNE</b> ◀◀ or <b>TUNE</b> ▶▶ momentarily to move radio frequency up or down one step at a time. Press and hold to advance quickly.</p>
<b>Scan Tuning</b>	<p>Press <b>SCAN</b> momentarily to preview strong stations on the current band, pausing for five seconds at each. Press <b>SCAN</b> again to cancel.</p>
<b>Band</b>	<p>Press <b>BAND</b> to select between FM1, FM2, FM3, AM1 and AM2 bands. Up to six presets can be programmed for each band.</p>
<b>Storing and Recalling Station Presets</b>	<p>Up to 18 FM stations and 12 AM stations can be stored in memory. To store a station, select the desired band and station. Press and hold the desired preset button (1-6) for more than two seconds. When stored, the preset number will appear in the display. The station can be recalled by pressing the corresponding preset button.</p>



# HD Radio™ AM/FM Tuner Operation

## Connecting the HDM90 (sold separately)

HD Radio operation requires connecting the HDM90 HD Radio tuner (sold separately). Refer to the HDM90 instructions for connection details.

## Display

When the unit is tuned to an HD Radio station, press DISP to toggle the display between the following options:



## HD Radio Tuning

Refer to the instructions for seek, manual and scan tuning on page 9.

When HD Radio station is selected, an HD Radio logo will begin to flash on the display. After about five seconds, HD or HD1 will illuminate after the radio frequency.

- If "HD" appears, the radio station is broadcasting a higher quality sound. No additional stations are available.
- If "HD1" appears, additional multicast channels (HD2 and/or HD3) are available. Press **TUNE** ►► to tune to other available multicast channels.

## HD Seek Mode

Press and hold **HD SEEK** for 2 seconds to activate digital-only tuning mode. The HD SEEK icon will appear on the display, indicating that the unit will skip over analog stations and tune to HD Radio stations only. Follow the instructions on page 9 to access seek, manual and scan tuning.

## Auto Station Store

While in HD SEEK mode, the **AUTO STORE** menu option will automatically store only HD Radio stations, beginning from the lowest frequency.

**Note:** Multicast channels (HD2 and/or HD3) are not automatically stored with this feature but can be stored by holding the desired preset number (1-6) for 3 seconds.

## Setting HD Radio Presets

HD Radio multicast stations (HD2 and HD3) can be stored as presets in the same way as analog radio stations. Press and hold a preset button until it beeps to store the preset.

## Recalling an HD Radio Multicast Preset

When selecting a preset multicast station, "LINKING" will appear in the display for approximately 5 seconds while the multicast station information is received.

**Note:** If the HD Radio signal on the preset is unavailable, the unit reverts to the previous analog or digital station.



## iTunes® Tagging Operation (HDM90)

### Overview

The iTunes Tagging feature of the XHDR6435 requires the optional HDM90 module (sold separately). Once connected, the HDM90 allows the user to "Tag" songs that are playing on HD Radio™ stations and enables them to be purchased later through iTunes. With the touch of a button the unit will remember the title and artist song information, and then transfer that information to your iPod device the next time you connect it to the XHDR6435. A new list called "Tagged" will appear in iTunes, giving you the option to purchase each song.

### Tagging Music Step 1

**Tune to an HD Radio station.** The HD logo in the display must remain solid - indicating that a digital station is tuned. If the song has valid artist and song title information, the TAG/MUTE button will turn red.

### Step 2

**Press and hold the TAG/MUTE button.** TAGGING SONG will appear, followed by TAG STORED, confirming the song information has been saved to internal memory. The song information will be saved in memory until an iPod device is plugged in. Up to 64 Tags can be saved before they must be transferred or deleted.

### Step 3

**Plug in an iPod device.** All the Tags currently in memory will be automatically transferred, deleting the Tags from the head unit's memory. See page 23 for connection details.

If an iPod device is plugged in when a song is tagged, the Tag will be immediately transferred to the iPod device (see page 12 for compatibility with iPod devices).

After the Tag transfer to the iPod device is complete, the XHDR6435 will display the number of tags that were successfully transferred.

### Step 4

**Sync with iTunes.** A list named "Tagged" will appear on the left in the iTunes software. Click on the "Tagged" list to view all the songs that have been tagged and click the "view" button for purchase information.

**Note:** Some iPod devices may require you to select 'transfer purchases' in the context menu from the name of your iPod device to transfer Tags to iTunes.

## Managing Tags

### Deleting All Tags

To delete all the saved tags without transferring them to an iPod device, change to tuner mode, then press AUDIO/MENU for 3 seconds to enter the setup menu. Press AUDIO/MENU once more until DEL TAGS appears along with the number of tags saved in memory, then press SELECT. A confirmation message will appear.

**Note:** Tags are managed from the iTunes software.



## iTunes® Tagging Operation (HDM90)

### Troubleshooting

Displayed Message	Description
<b>CHECK iPod VER</b>	There is a compatibility issue with the iPod device that is connected. Check the list of compatible iPod devices below.
	If the attached iPod device is compatible, update the firmware to the latest version using iTunes.
<b>SENDING TAGS</b>	Tags are being sent to the iPod device. This process can take several minutes depending on the number of Tags being sent.
<b>iPod FULL</b>	There is not enough space on the connected iPod device to transfer the iTunes Tags. Free up space using iTunes.
<b>TRANSFER FAILED</b>	Connection error. Ensure the iPod device is powered on and reconnect the iPod device until a TAGS SENT confirmation is displayed.
<b>ALREADY TAGGED</b>	The same song has already been tagged from the same radio station, and is currently saved in memory. The same song cannot be tagged twice - unless the song is tagged on a different radio station, the Tags are sent to an iPod device or the tags are erased.
<b>MEMORY FULL CONNECT iPod</b>	The internal memory of the HDM90 will hold 64 Tags. An iPod device must be connected to transfer the Tags, or the Tags must be deleted before more songs can be tagged.
<b>NO TAG INFO</b>	There is not sufficient information (artist or title) to tag the song. Some HD Radio™ stations or certain songs may not fully support iTunes Tagging.
<b>TAGGING FAILED</b>	There was an error saving the Tag information to the internal memory. Press and hold the TAG/MUTE button again.
<b>NO TAGS STORED</b>	There are no tags saved in the internal memory. The DELETE TAGS function can only delete Tags that are saved in the internal memory.

#### Device Compatibility with iTunes Tagging

- Compatible with
- \*iPhone 3GS
  - \*iPhone 3G
  - \*iPhone
  - iPod nano (5th generation)
  - \*iPod touch (2nd generation)
  - iPod nano (4th generation)
  - iPod classic
  - \*iPod touch (1st generation)
  - iPod nano (3rd generation)

\*Some iPod devices may require you to select 'transfer purchases' in the context menu from the name of your iPod device to transfer Tags to iTunes.

Go to [www.apple.com/itunes](http://www.apple.com/itunes) for the latest version of the iTunes software.

## CD Player Operation

<b>Insert CD</b>	With the label facing up, insert a standard size CD into the CD slot. The CD will automatically begin playback.
<b>Eject CD</b>	Press <b>EJECT</b> to eject the CD. The unit will change to previous mode of operation. If the disc is not removed within 10 seconds, the unit will reload the disc. The unit does not have to be turned on to eject CD.
<b>Track Select</b>	Press <b>TRACK ►►</b> to skip to the beginning of the next track. Press <b>TRACK ◀◀</b> to return to the beginning of the current track. Pressing <b>TRACK ◀◀</b> again skips to the beginning of the previous track.
<b>Fast Forward and Reverse</b>	Press and hold <b>TRACK ►►</b> or <b>TRACK ◀◀</b> to fast forward or reverse a track.
<b>Pause</b>	Press <b>►/  </b> to temporarily stop CD playback. Press <b>►/  </b> again to resume playback.
<b>Repeat</b>	Press <b>RPT</b> to enter the Repeat menu, then turn the <b>volume knob</b> to select one of the following options: <ul style="list-style-type: none"> <li>• OFF - Plays all tracks on disc.</li> <li>• TRACK - Continuously repeats selected track.</li> </ul>
<b>Random</b>	Press <b>RDM</b> to enter the Random menu, then turn the <b>volume knob</b> to select one of the following options: <ul style="list-style-type: none"> <li>• OFF - Cancels the RDM function.</li> <li>• ALL- Plays all tracks in random order.</li> </ul>
<b>Intro</b>	Press <b>INT</b> to enter the Intro menu, then turn the <b>volume knob</b> to select one of the following options: <ul style="list-style-type: none"> <li>• OFF - Cancels the INT function.</li> <li>• ALL - Plays the first 10 seconds of each track.</li> </ul>
<b>CD-R/CD-RW Compatibility</b>	Some CD-Rs and CD-RWs may be incompatible with this unit, depending on media type and recording method. In addition, the following CDs may be incompatible with this unit: CDs exposed to extreme temperatures or direct sunlight for extended periods of time, CDs recorded in which a recording session failed or a re-recording was attempted and encrypted or copy-protected CDs that do not conform to the audio CD-DA red book recording standard.

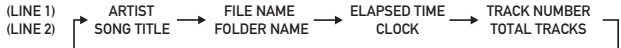
# CD Player Operation - MP3/WMA Files

## Playing an MP3/WMA Disc

When an MP3/WMA encoded disc is first inserted, "CD PLAY" will appear in the display. Depending on the number of files and folders, this may take several seconds.

## Displaying Information

Press **DISP** to select between the following:



"NO ID3 TAG" will be displayed if the MP3 file contains no ID3 tag information.

"UNKNOWN" will be displayed if the WMA file contains no WMA tag information.

"ROOT" will be displayed if the directory name of a root folder is not labeled.

### Song Title Icon

This icon will illuminate when the song title is displayed.

### Artist Icon

This icon will illuminate when the artist name is displayed.

### Folder Icon

This icon will illuminate when the folder name is displayed.

### File Icon

This icon will illuminate when the file name is displayed.

## Character Support

Maximum character display information

- Track name – 32 character maximum
- Directory name – 32 character maximum
- \*Song title – 30 character maximum
- \*Artist name – 30 character maximum

\*Song title and Artist Name will only be displayed if included with the MP3/WMA file.

## CD Player Operation - MP3/WMA Files

### Folder/File Search Mode

MP3/WMA CD mode features a file and folder search mode. This search allows navigating through folders to find a specific MP3 or WMA file for playback.

**Step 1** Press **SELECT**. "MP3 CD SEARCH" will appear, then a list of the files in the currently selected directory will be accessible.

**Step 2** Turn the volume knob. The list of subfolders and files in the current folder will cycle. Turning the volume knob left will cycle to the beginning of the folder/file list. Any subfolders will be listed at the beginning of the list, followed by any files.

**FOLDER** will illuminate when a folder is highlighted.

**FILE** will illuminate when a file is highlighted.

**Step 3** Navigate to the desired folder and file.

- To go up one folder level, press **ESC** once.
- To view the contents of a highlighted folder, press **SELECT**.

**Note:** the "FOLDERUP" option may also be selected to navigate up one folder level.

**Step 4** Press **SELECT** to begin playing the selected MP3/WMA file.

**Note:** Press **ESC** from the root directory to exit search mode.



## CD Player Operation - MP3/WMA Files

<b>Folder Access</b>	<p>Press  to select the previous folder. Press  to select the next folder.</p> <p><b>Note:</b> Folder access is only available on MP3/WMA discs recorded with more than one folder.</p>
<b>Repeat</b>	<p>Press <b>RPT</b> to enter the Repeat menu, then turn the <b>volume knob</b> to select one of the following options:</p> <ul style="list-style-type: none"><li>• OFF - Plays all tracks on CD.</li><li>• TRACK - Continuously repeats selected track.</li><li>• FOLDER - Continuously repeats all files in selected folder.</li></ul>
<b>Random</b>	<p>Press <b>RDM</b> to enter the Random menu, then turn the <b>volume knob</b> to select one of the following options:</p> <ul style="list-style-type: none"><li>• OFF - Cancels the <b>RDM</b> function.</li><li>• ALL - Plays all tracks in random order.</li><li>• FOLDER - Plays all tracks in folder in random order.</li></ul> <p><b>Note:</b> Random mode is retained in memory when selecting between other modes and when the unit is turned on/off.</p>
<b>Intro</b>	<p>Press <b>INT</b> to enter the Intro menu, then turn the <b>volume knob</b> to select one of the following options:</p> <ul style="list-style-type: none"><li>• OFF - Cancels the <b>INT</b> function.</li><li>• ALL - Plays first 10 seconds of each track.</li><li>• FOLDER - Plays first 10 seconds of each track in folder.</li></ul> <p><b>Note:</b> Folder repeat, random and intro options only function on MP3/WMA discs recorded with more than one folder.</p>



## CD Player Operation - MP3/WMA Files

### Media Compatibility

The following types of discs/files are compatible:

- CD-ROM (ISO), CD-R, CD-RW
- CD-DA
- MP3 data
- WMA data

The following types of discs/files are not compatible:

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

### Playback Order

MP3/WMA playback sequence is based on recorded order of files and begins in the root folder of the disc. Any empty folders or folders that do not include MP3/WMA files are skipped. This unit may not play files in the order they were recorded in. Refer to your recording software's user's manual for more information.

### Compatible Recording Formats

- ISO9660 level 1
- ISO9660 level 2
- Yellow Book MODE 1
- Yellow Book MODE 2 FORM 1
- Multi session
- Maximum folders and files - 256
- Maximum folder levels - 8
- MPEG-1/2/2.5 Audio Layer-3

ISO9660 standards:

- Maximum nested folder depth is 8 (including the root folder).
- Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and " \_ " (underscore). Some characters may not be displayed correctly, depending on the character type.
- This device can play back discs in Joliet, Romeo, and other standards that conform to ISO9660. MP3/WMA written in the formats other than the above may not play and/or their file names or folder names may not be displayed properly.



## CD Player Operation - MP3/WMA Files

**Additional MP3/WMA Information**

An internal buffer provides ESP (Electronic Skip Protection) to virtually eliminate skipping.

When playing a disc recorded with regular audio files (CD-DA or .WAV) and MP3/WMA files, the unit will play the MP3/WMA files only.

Only MP3 files with filename extension (.mp3) can be played. Only WMA files with filename extension (.wma) can be played.

Do not attempt to play discs which contain non-MP3/WMA files with the MP3/WMA extension.

**Sampling Frequency Rates  
MP3**

8kHz ~ 48kHz

**WMA**

32kHz ~ 48kHz

**Transfer Bit rates  
MP3**

32kbps ~ 320kbps constant  
Variable bit rates

**WMA**

32kbps ~ 192kbps constant  
Variable bit rates

Note:  
Some files may not play or be displayed correctly, depending on sampling rates and bit rates.

**MP3 Tag Display**

ID3 tags Version 1.0 to 2.0

**Recommended Settings**

For best results, use the following settings when burning an MP3 disc:

- 128kbps or higher constant bit rate
- 44.1kHz or higher sampling frequency

For best results, use the following settings when burning a WMA disc:

- 64kbps or higher constant bit rate
- 32kHz or higher sampling frequency

## USB Operation - MP3/WMA Files

### Connecting a USB Device (sold separately)

Play MP3/WMA files from most mass storage devices by connecting them to the XHDR6435's USB port.

### Playing Music

When a USB device is first connected, "READING" will appear in the display and playback will begin momentarily. Depending on the number of files and folders, it may take several seconds for the device to begin playing. If no valid MP3/WMA files are detected, "NO FILE" will be displayed and the last mode will be resumed.

### Track Select

Press **TRACK** ►► to skip to the beginning of the next track. Press **TRACK** ◄◄ to return to the beginning of the current track. Pressing **TRACK** ◄◄ again skips to the beginning of the previous track.

### Fast Forward and Reverse

Press and hold **TRACK** ►► or **TRACK** ◄◄ to fast forward or reverse a track.

### Pause

Press ►/|| to temporarily stop USB playback.  
Press ►/|| again to resume playback.

### File Search Step 1

Press **SELECT** to enter the USB file/folder search mode. "USB SEARCH" will be displayed. A list of all the folders from the USB device will be displayed.

**Note:** Any files located in the root directory will be located in the folder named "ROOT". Press **SELECT** to view the files on the root folder.

### Step 2

Turn the **volume knob** to cycle through all the folders on the device and press **SELECT** to choose the desired folder. The list of files in the selected folder will be displayed. Turn the **volume knob** to cycle through the list of files.

### Step 3

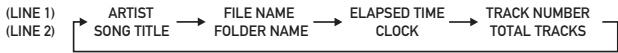
Once the desired song is displayed, press **SELECT** to begin playback of the desired song.

Pressing **ESC** when viewing the contents of a folder will return to the list of folders on the USB device. Press **ESC** again to exit the search menu.

# USB Operation - MP3/WMA Files

## Displaying Information

When a file is accessed, the clock and elapsed time will be displayed. Press **DISP** momentarily to select file name (default), song title, artist, track number or clock & elapsed time.



"NO TITLE" will be displayed if no song title information is available.

"NO ARTIST" will be displayed if no artist information is available.

**Song Title Icon** 

This icon will illuminate when the song title is displayed.

**Artist Icon** 

This icon will illuminate when the artist name is displayed.

**Folder Icon** 

This icon will illuminate when the folder name is displayed.

**File Icon** 

This icon will illuminate when the file name is displayed.

## Folder Access

Press  to select the previous folder.

Press  to select the next folder.

**Note:** Folder access is only available on USB devices with more than one folder.

## Repeat

Press **RPT** to enter the Repeat menu, then turn the **volume knob** to select one of the following options:

- OFF- Plays all tracks on USB device.
- TRACK - Continuously repeats selected track.
- FOLDER - Continuously repeats all files in selected folder.

## Random

Press **RDM** to enter the Random menu, then turn the **volume knob** to select one of the following options:

- OFF - Cancels the **RDM** function.
- ALL- Plays all tracks in random order.
- FOLDER - Plays all tracks in folder in random order.

**Note:** Random mode is retained in memory when selecting between other modes and when the unit is turned on/off.

## Intro

Press **INT** to enter the Intro menu, then turn the **volume knob** to select one of the following options:

- OFF - Cancels the **INT** function.
- ALL - Plays first 10 seconds of each track.
- FOLDER - Plays first 10 seconds of each track in folder.

## USB Operation - MP3/WMA Files

### Character Support

- Maximum character display information
- Track name – 32 character maximum
  - Directory name – 32 character maximum
  - \*Song title – 30 character maximum
  - \*Artist name – 30 character maximum

\*Song title and artist name will only be displayed if included with the MP3/WMA file.

### Media Compatibility

The following types of files are compatible:

- MP3 data
- WMA data

The following types of files are not compatible:

- WMA files that are protected by DRM (Digital Rights Management).
- WMA lossless format
- MP3 PRO format
- MP3 playlists
- WAV format

### Playback Order

MP3/WMA playback sequence is based on order the files are copied to the USB device and begins in the root folder. Any empty folders or folders that do not include MP3/WMA files are skipped. Depending on your software, the playback order may vary.

### Playback Capacity

- Maximum number of files: 48896
- Maximum number of folders: 127 plus the root directory
- Maximum number of files in each folder and root: 382
- Maximum number of folder levels (sub folders): 8 (7 levels plus the root)

**Note:** If the number of files/folders exceeds the maximum outlined above, the additional files/folders will be ignored.

**Note:** Some devices that exceed the maximum number of files or folders may not function properly.

### USB Device Compatibility

Due to the differences of USB devices, some devices may not be compatible. USB devices must be 'mass storage class' and formatted to the FAT or FAT32 file system in order to ensure compatibility.



## USB Operation - MP3/WMA Files

**Additional MP3/WMA Information**

Only MP3 files with filename extension (.mp3) can be played. Only WMA files with filename extension (.wma) can be played. Do not attempt to play non-MP3/WMA files with the MP3/WMA extension.

**Sampling Frequency Rates  
MP3**

8kHz ~ 48kHz

**WMA**

32kHz ~ 48kHz

**Transfer Bit rates  
MP3**

32kbps ~ 320kbps constant  
Variable bit rates

**WMA**

32kbps ~ 192kbps constant  
Variable bit rates

**Note:** Some files may not play or be displayed correctly, depending on sampling rates and bit rates.

**MP3 Tag Display**

ID3 tags Version 1.0 to 2.0

**Note:** If an invalid ID3 tag version is detected, "NO SUPPORT" will scroll on the display.

# Operation of iPod

## Connect an iPod Device (Not Included)



## Displaying Information

The XHDR6435 features a direct USB control system for iPod. To play music from an iPod device, connect the USB cable (included with your iPod device) to the XHDR6435 USB port. Once connected, **READING** will appear in the display. Playback will begin automatically. If a song is playing on the iPod device before it is connected, it will continue to play.

Press **DISP** to select the display options as follows:



## Search Mode

### Search Menu Functions (step 1)

Press **SELECT** once to enter the search mode.

### (step 2)

Turn the **volume** knob to select between **playlist**, **artist**, **album**, **song**, **audiobook** and **podcast**. Press **SELECT** to select the desired search type.

### (step 3)

Navigate to the desired song and press **SELECT** to begin playback of that song. Use the table below for reference when navigating through the menu options.

**Note:** Press **ESC** to access the previous level (up one level). Pressing **ESC** from the search main menu will exit the search.

See the below table for a list of the search menu navigation options.

Search Item	Menu Navigation
<b>Playlist</b>	Menu → Playlists → Songs
<b>Artist</b>	Menu → Artists → Albums → Songs
<b>Album</b>	Menu → Albums → Songs
<b>Song</b>	Menu → Songs
<b>Audiobooks</b>	Menu → Audiobooks
<b>Podcast</b>	Menu → Podcasts



## Operation of iPod

<b>Song Select</b>	Press ►► to skip to the beginning of next song. Press ◀◀ to return to the beginning of current song. Pressing ◀◀ again skips to the beginning of previous song.
<b>Fast Forward and Reverse</b>	Press and hold ►► or ◀◀ to fast forward or reverse a song.
<b>Pause</b>	Press ►/   to temporarily stop playback. Press ►/   again to resume playback.
<b>Repeat</b>	Press <b>RPT</b> to enter the Repeat menu, then turn the <b>volume knob</b> to select one of the following options: <ul style="list-style-type: none"><li>• OFF - Repeats all tracks.</li><li>• SONG - Repeats selected track.</li></ul>
<b>Random</b>	Press <b>RDM</b> to enter the Random menu, then turn the <b>volume knob</b> to select one of the following options: <ul style="list-style-type: none"><li>• OFF - Cancels the <b>RDM</b> function.</li><li>• ALL - Plays all tracks in random order.</li><li>• ALBUM - Plays all tracks in the selected album in random order.</li></ul>
<b>Intro</b>	Press <b>INT</b> to enter the Intro menu, then turn the <b>volume knob</b> to select one of the following options: <ul style="list-style-type: none"><li>• OFF - Cancels the <b>INT</b> function.</li><li>• ON - Plays first 10 seconds of each track.</li></ul>
<b>Character Support</b>	Only alphanumeric characters can be displayed (ASCII type). "NO SUPPORT" will be displayed if the file contains characters that can not be displayed. "NO FILE" will be displayed if there are no songs in the selected playlist.  Maximum character display information <ul style="list-style-type: none"><li>• *Song title – 32 character maximum</li><li>• *Artist name – 32 character maximum</li><li>• *Album name – 32 character maximum</li></ul> *Song Title, Artist Name and Album name will only be displayed if included with the file.
<b>Device Compatibility</b>	Works with <ul style="list-style-type: none"><li>• iPhone 3GS</li><li>• iPhone 3G</li><li>• iPhone</li></ul> Made for <ul style="list-style-type: none"><li>• iPod nano (5th generation)</li><li>• iPod touch (2nd generation)</li><li>• iPod nano (4th generation)</li><li>• iPod classic</li><li>• iPod touch (1st generation)</li><li>• iPod nano (3rd generation)</li><li>• iPod nano (2nd generation)</li><li>• iPod with video</li></ul>
<b>Note</b>	See page 12 for compatibility of iPod devices with iTunes Tagging.



## Bluetooth® Operation (BTM60)



### Overview

Connecting a Bluetooth device requires first installing and connecting the Dual BTM60 Bluetooth interface module (sold separately). When connected to a Dual Bluetooth ready head unit, the BTM60 supports the HFP (hands-free profile), A2DP (advanced audio distribution profile) and AVRCP (audio video remote control profile).

### Preparation





Before you can use a mobile device with this head unit, it must be paired and connected. Please make sure that Bluetooth is activated on your mobile device before you begin the pairing process. Refer to the owner's manual of your mobile device for more details.

### Bluetooth Pairing

- 1) To pair a Bluetooth enabled mobile phone to the BTM60, change to Bluetooth mode by pressing  on the head unit or press MODE until "BLUE-TOOTH" is displayed.
- 2) Press and hold  on the head unit or BTM60 for 5 seconds, until "PAIRING" is displayed, the Bluetooth icon will flash every second. The head unit will begin to broadcast the pairing signal for 90 seconds.
- 3) Complete the pairing from the Bluetooth menu of your mobile device by searching for new devices. Please refer to your mobile device instructions for further information on Bluetooth pairing and connections. The Bluetooth icon will illuminate solid when connected.

**The BTM60 device name is "DUAL\_BT60."  
The Bluetooth passcode is 1234.**

### Connecting a Mobile Device

- If the AUTO-CON menu setting is set to OFF, you must press  to connect your device after pairing.
- From Bluetooth standby mode, press and hold  to disconnect your mobile device from the BTM60.
- If your mobile device becomes disconnected, press  from Bluetooth standby mode to reconnect your mobile device to the BTM60.
- To connect a previously paired mobile device:
  - 1) Disconnect any mobile devices by pressing and holding  for 5 seconds.
  - 2) Press SELECT. "DEVICE NAME" will appear on the LCD.
  - 2) Turn the volume knob to cycle through the list of devices 1 through 8.
  - 3) Press SELECT to connect to the desired device. It must be in range to connect.







**Note:** When a device number is selected, it will take a few moments for the device name to appear on the bottom line of the LCD.

### Compatibility

- Due to the differences in Bluetooth technology, some mobile devices may be incompatible or function improperly when used with the BTM60.



## Bluetooth® Operation (BTM60)

Function	Description
Making a Phone Call	Press  once. "Enter Number" will be shown, then an "_ " will appear on the display.
	Input the desired phone number using the 0-9, *, # buttons on the remote control. Press  to begin dialing.
	A phone call may also be placed from your mobile device using the keypad, phone book or speed dial. When a call is placed from a mobile device, "DIALING" will appear on the head unit display.
Receiving a Phone Call	If an incoming call is detected, the head unit will automatically switch to Bluetooth mode.
	The incoming phone number will scroll across the display, the phone icon will flash on the display, and a ring tone will be audible from the vehicle speakers. See Bluetooth Settings for speaker configurations.
	<b>Note:</b> The ring audio level will depend on the mobile device and head unit ring volume and audio settings. If the ringer on the mobile device is off, you may not hear an incoming ring tone.
	Press  on the head unit to receive a call. The phone icon in the display will illuminate solid.
During a Phone Call	The head unit will display the elapsed time of the phone call.
	The <b>volume knob</b> will adjust the volume of the call.
	Press <b>MUTE</b> to mute the microphone during a call.
Refusing a Call	To refuse an incoming phone call, press and hold  for 3 seconds.
Ending a Phone Call	Press  to end a call.
	If the phone call was received, the head unit will return to previous mode when call is ended.
Redial	Press  twice consecutively to redial the last number.

## Bluetooth® Operation (BTM60)

Function	Description
Redial Menu	To enter last number dialing mode, press <b>↶</b> , then press <b>↶</b> a second time. The head unit will display "REDIAL MENU."
	Press <b>SELECT</b> to cycle through the received, dialed or missed call categories. Rotate the <b>volume knob</b> to cycle through the last 5 calls in the selected category.
	Press <b>↶</b> to begin dialing the selected number while it is displayed. "DIALING" will appear on the head unit display.
Audio Transfer	To transfer the phone call between the head unit and the mobile device, press and hold <b>DISP</b> for 3 seconds during a call. <b>Tip:</b> transfer audio to your mobile device before turning the head unit off.
Call Waiting	When there is a second call incoming, press <b>↶</b> to activate call waiting. The current call will be placed on hold, and the second call will be active. Press <b>↶</b> again to return to the first call.
Call Hold	During a phone call, press <b>↶</b> to place the current call on hold. To resume the phone call, press <b>↶</b> again.

## Bluetooth® Setup Menu

Menu Function	Options	Action
Bluetooth Mode	BL'TOOTH ON	Enables the BTM60 Bluetooth Interface Module. The Bluetooth icon will flash every 10 seconds.
	BL'TOOTH OFF	Disables Bluetooth support.
Auto Connect	AUTO CON ON	Allows the BTM60 to automatically (re)connect to the most recently connected mobile device. <b>Note:</b> Some mobile devices do not support this feature.
	AUTO CON OFF	Disables the auto connect feature. You must press <b>↶</b> every time to connect a mobile device.
Auto Answer	AUTO ANS OFF	Disables the auto answer feature. Press <b>↶</b> to receive an incoming call.
	AUTO ANS ON	All incoming calls will be answered automatically after 2-3 rings without notification.
Bluetooth Audio	BT SPKRS FRONT	Directs the Bluetooth audio to the front speakers.
	BT SPKRS ALL	Directs the Bluetooth audio to all 4 speakers.

\*See page 7 for Setup Menu navigation.



# Bluetooth® Operation (BTM60)

## Bluetooth Streaming Audio Operation (Bluetooth Audio Mode)

The BTM60 Bluetooth module (sold separately) supports A2DP (advanced audio distribution profile) wireless streaming audio from your Bluetooth mobile device directly to your head unit. You can also control your music from the front panel of the head unit using AVRCP (audio video remote control profile).

### Notes:

- To stream music to your head unit, your mobile device must support A2DP and AVRCP Bluetooth profiles. Check the owner's manual of your mobile device
- Streaming audio must be enabled from your mobile device. This option will vary depending on the device. Some devices allow streaming audio to be disabled.

After pairing, connecting and enabling streaming audio from a compatible mobile device, begin playing music using the music player on your mobile device. Once the music is playing, the following functions can be used to control music:

- The ►► button will skip to the next available audio track.
- The ◀◀ button will skip to the previous audio track.
- The ►/|| button will toggle between play and pause during playback.
- The ◀ button will stop the audio playback.

**Note:** Some Bluetooth devices may not fully support these commands.

## Bluetooth Reset

Resetting the Bluetooth module will remove the list of paired phones and delete the list of recent calls from memory.

To reset the BTM60's Bluetooth feature, perform the following steps:

- 1) Press **MODE** until the head unit is in Bluetooth mode.
- 2) Press and hold **MODE** for 3 seconds to reset the Bluetooth settings back to the factory default.

## Troubleshooting

Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuses	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
Excessive skipping	Unit is not mounted correctly or backstrap is not secure	Check mounting sleeve and backstrap support
	Physical defect in media (CD, CD-R or CD-RW)	Check media for scratches
ERROR-01 appears on display	Disc read error	Press <b>EJECT</b> or <b>RESET</b>
ERROR-02 appears on display	Focus error or disc is in upside down	Press <b>EJECT</b> or <b>RESET</b>
PROTECT appears on display	The WMA file is copy-protected by DRM (Digital Rights Management)	Write disc using WMA files that are not copy-protected
NO FILE appears on display	Selected file is not available in direct or alphanumeric search modes	Repeat search using valid parameters
INVALID appears on display	The file format is incompatible	Write disc using valid audio files with .mp3 or .wma file extensions
Unit will not accept a disc	CD mechanism position out of alignment	Press and hold <b>EJECT</b> for 3 seconds to reset CD mechanism position
	CD transit screws still in place	Remove 2 transit screws located on top of the unit
NO SUPPORT appears on display	An invalid ID3 tag version is present	Version 1.0 to 2.0 ID3 tags are supported.



# Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

**Who is covered?** This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

**What is covered?** This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via [www.dualav.com](http://www.dualav.com).

### What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

- Call us toll-free at 1-866-382-5476
- E-mail us at [cs@dualav.com](mailto:cs@dualav.com)

**Exclusion of Certain Damages:** This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

## FCC Compliance

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

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

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

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

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



### CEA-2006 Power Standard Specifications (reference: 14.4VDC +/- 0.2V, 20Hz~20kHz)

Power Output: 18 Watts RMS x 4 channels at 4 ohms and  $\leq 1\%$  THD+N  
Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)

# Specifications

<b>CD Player</b>	Frequency response: <b>10Hz-20kHz</b> Channel separation @ 1kHz: <b>&gt;65dB</b> D/A converter: <b>1 Bit</b>
<b>FM Tuner</b>	Tuning range: <b>87.5MHz-107.9MHz</b> Usable sensitivity: <b>8.5dBf</b> 50dB quieting sensitivity: <b>10dBf</b> Stereo separation @ 1kHz: <b>40dB</b> Frequency response: <b>30Hz-13kHz</b>
<b>AM Tuner</b>	Tuning range: <b>530kHz-1710kHz</b> Usable sensitivity: <b>22uV</b> Frequency response: <b>30Hz-2.2kHz</b>
<b>General</b>	Speaker output impedance: <b>4~8 ohms</b> Line output voltage: <b>2 Volts RMS</b> Dimensions: <b>7" x 7" x 2" (178 x 178 x 51 mm)</b>

Design and specifications subject to change without notice.



Dual Electronics Corp.  
Toll Free: 1-866-382-5476

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"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

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