

## MP1516BT

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### MP3/WMA Playback

While you are playing a disc with MP3 or WMA files, the first file in the root folder will be played. As the file is playing "MP3" or "WMA" will be displayed first, then if there is any ID3 information that will be displayed as the file is playing.

#### **Displaying ID3 Tag Information**

While you are playing an MP3 file which has ID3 Tag information, press the **BAND/ID3** button repeatedly to show the ID3 Tag information on the display panel. The ID3 Tag information will be as follows:

Folder → File → Title → Artist → Album

If there is no ID3 Tag information, nothing will be shown on the display panel.

#### **Folder Down**

Press the **5 / ▶-** button once to go back one folder.

#### **Folder Up**

Press the **6 / ▶+** button once to advance one folder.

#### **Search Modes**

There are three search modes to help find your favorite MP3 and WMA tracks. The search modes only works with MP3/WMA CDs, and USB flash memory with MP3/WMA files.

##### **Simple Track Search**

Press the **◀◀** or **▶▶** button to go to the previous track or next track.

##### **Track Search**

1. Press the **F/PS** button. "TRK-SCH" appears on the display panel.
2. Rotate the volume knob to select the track number.
3. Press and hold the **SEL** button for 2 seconds, the number of the track is assigned according to the order you added the file into the media. The files which are written later will be assigned a larger number.

##### **Folder Search**

1. Press the **F/PS** button twice. "NAVIGATE" appears on the display panel.
2. Rotate the volume knob to select the folder name.
3. Press the **SEL** button to play the chosen folder.



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**Multi-Session CD Reading**

This unit can read multi-session CDs. The multi-session reading will be activated automatically if the player detects a file that is written in multi-session format.

**Electronic Skip Protection**

The unit is equipped with Electronic Skip Protection (ESP) circuits. Electronic Skip Protection is for driving on rough roads. The CD will play for 10 seconds on rough roads without skipping. If driving on a rough road for more than 10 seconds, the CD may skip.

For MP3 or WMA playback, files will play for 60 seconds. If the road is rough for more than 60 seconds, the CD with MP3 or WMA files may skip.

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### Disc Notes

#### *Notes on discs:*

- This unit will only play the following discs:

Type of Disc	Label on the disc	Recorded Material	Size of Disc
CD, MP3, WMA		Audio only	12 cm

- This unit only reads 12 cm discs.
- Do not use irregularly shaped discs such as heart or star-shaped discs as they may cause the unit to malfunction. Be sure to use round shape CD discs only for this unit.
- Do not stick paper or tape, etc, onto the label side or the recording side of any discs, as it may cause a malfunction.
- Dirty, dusty, scratched, and warped discs may not operate properly.

#### *Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs):*

- The unit cannot play CD-R or CD-RW discs that are not finalized. This is also called "closing the session" in some CD-R/CD-RW software. (Please refer to your CD-R/CD-RW recorder or CD-R/CD-RW software manual for more information on the finalization process).
- Depending on the recording status, and conditions of the disc and the equipment used for the recording, some CD-Rs/CD-RWs may not be played on this unit. For more reliable play back, please see following recommendations:
  - Use CD-RWs with speed 1x to 4x and write with speed 1x to 2x.
  - Use CD-Rs with speed 1x to 8x and write with speed 1x to 2x.
  - Do not play a CD-RW which has been written for more than 5 times.

#### *Notes on MP3 files (MP3 Version Only):*

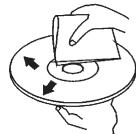
- The disc must be in the ISO9660 level 1 or level 2 format, or Joliet or Romeo in the expansion format.
- When naming a MP3 file, be sure the file name extension is ".MP3".
- For a non-MP3 file, even though the file name extension is ".MP3", the unit cannot recognize it.



### ***Cleaning and Handling Discs***

To enjoy the best sound quality, handle discs as indicated below:

- Clean the discs with a cleaning cloth. Clean each disc from the center to the outside edge.



- Don't use CDs with blobs of glue or ink on its surface.



- Don't use CDs with labels or stickers on its surface. If the labels start to rub away, any remainder of glue can interfere with the good performance of the unit.



- Hold and handle discs by the edges to keep the disc clean. Don't touch the surface of the disc.



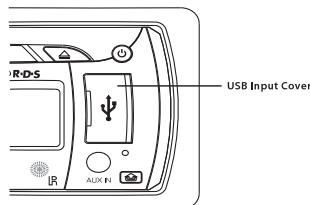
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### USB OPERATION

The unit contains a USB port. The USB port is located on the faceplate beneath the protective cover. You can connect an USB memory device using this port.

1. Locate the USB Input Cover on the faceplate.



2. Lift the USB Input Cover to reveal the USB connector.
3. Insert the USB device into the USB connector. The unit will read the audio files on the USB device automatically. "USB PLAY" appears on the display panel.
4. If the unit is in another mode of operation press the **SRC** button on the faceplate or the **MOD** button on the remote control to select USB mode.

*Note: When in USB play mode, be sure not to remove the USB device from the USB port.*

*Note: The unit can only support a standard USB memory device. When connecting an MP3 player that uses normal batteries (non rechargeable batteries), the batteries should be removed from the MP3 player first and then connected to the USB port. Otherwise, damage to the batteries may result.*

*Note: This unit supports a USB device with up to 8GB storage size. If there is any compatibility problems, we recommend you to format your USB device in FAT32 mode before using it. If the problem persists, consult your dealer for assistance.*

### MP3/WMA Playback

To play MP3/WMA files from a USB flash memory, insert a USB flash memory into the USB port on the left side of the unit. The unit will start playing MP3/WMA files on the USB flash memory automatically.

If the MP3/WMA files are stored in folders on the USB drive, the unit will start by playing the first song in the first folder. After playing all the files sequentially in the first folder, the unit will play sequentially all of the files in the next folder. The unit will continue playing through all of the folders on the USB drive in this manner.

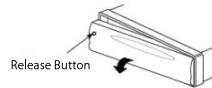
If the USB drive has loose files and folders containing files, it will play the loose files sequentially, then it will play the files in the folders sequentially.



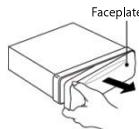
## MEMORY CARD OPERATION

There is an SD Memory Card Slot on the housing of the unit. The housing is accessed by removing the faceplate.

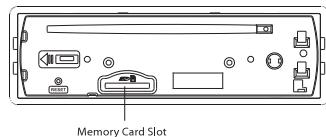
1. Press the release button on the faceplate.



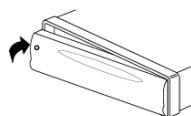
2. Pull off the faceplate to reveal the Memory Card slot.



3. Insert an SD card into the Memory Card slot.



4. Install the faceplate. The unit will search the MP3 files in the card and start to play MP3 files automatically. "SD PLAY" appears on the display panel.



5. If the unit is in another mode of operation press the **SRC** button on the faceplate or the **MOD** button on the remote control to select SD play mode.

*Note: This unit supports a SD/MMC card with up to 8GB storage size. If there is any compatibility problems, we recommend you to format your SD/MMC card in FAT32 mode before using it. If the problem persists, consult your dealer for assistance.*

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### MP3/WMA Playback

To play MP3/WMA files from a SD card, remove the faceplate and insert a SD card into the SD Memory Card Slot on the housing. The unit will start playing MP3/WMA files on the SD card memory automatically when the faceplate is installed. If the MP3/WMA files are stored in folders on the SD card, the unit will start by playing the first song in the first folder. After playing all the files sequentially in the first folder, the unit will play sequentially all of the files in the next folder. The unit will continue playing through all of the folders on the SD card in this manner. If the SD card has loose files and folders containing files, it will play the loose files sequentially, then it will play the files in the folders sequentially.



## iPod®/iPhone® OPERATION

An iPod or iPhone device can be connected to the unit via your iPod cable to the USB interface on the front panel. Once connected, "FLASH IPOD" appears on the display panel, then playback starts automatically.

When the unit is in another mode of operation, press the **SRC** button on the front panel or the **MOD** button on the remote control to select iPod mode.

### Browsing your iPod/iPhone

1. Press the **AS/PS** button on the front panel or the **F/PS** button on the remote control. "PLAYLIST" appears on the display panel.
2. Rotate the volume knob to cycle through "PLAYLIST", "ARTISTS", "ALBUMS", "SONGS", "PODCASTS", "GENRES", "SONGS", "COMPOSER", and "AUDIOBKS". The listing is the same as your iPod's listing.
3. Press the volume knob to confirm your desired category.
4. Rotate the volume knob for further selection and press the volume knob to confirm.

### Pausing or Resuming Playback

When playing a track, press the **▶||** button to play, pause or resume play.

### Repeating a Track

When playing a track, press the **RPT** button briefly to repeat the current track. "RPT" appears on the display panel. Press the **RPT** button again to repeat all. Press the **RPT** button again to cancel the repeat function.

### Playing Tracks in a Random Order

When playing a track, press the **RDM** button to play all tracks in the current category in random order. "RDM and SHF ABM" appears on the display panel. Press **RDM** again to shuffle all. Press **RDM** again to cancel the function.

### Selecting a Track Up/Down

When playing a track, press the **◀◀** button or **▶▶** button to play the previous or next track in the current category. You can not enter the next category.

When playing a track for more than 1 second, press the **◀◀** button to play the current track from the start of that track.

When playing a track for less than 1 second, press the **◀◀** button to play the previous track.

When playing a track, press and hold the **◀◀** button or **▶▶** button for several seconds to play in fast reverse or fast forward. Release the button to resume normal playback.

### Detaching your iPod/iPhone

Unplug your iPod cable from the USB port anytime to eject the iPod/iPhone.

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### BLUETOOTH® WIRELESS DEVICE OPERATION

Wireless products featuring Bluetooth technology have the capability to wirelessly synchronize and transfer data among devices. The Bluetooth audio capabilities can be used for mobile phones hands free applications. Bluetooth wireless technology has many profiles and the unit is compatible with most mobile phones featuring Bluetooth wireless technology.

Before attempting to use the Bluetooth functions on the unit, make sure your mobile phone supports Bluetooth functions. Adhere to the following guidelines:

- Before using Bluetooth functions, you must pair your mobile phone to the MP1516BT head unit.
- The line-of-sight distance between this unit and your mobile phone must be 9 feet (3 meters) or less for sending and receiving voice and data via Bluetooth wireless technology.
- Always keep a clear path between the mobile phone and the unit. Never place a metal object or any other obstacle between the mobile phone and the unit.
- Before accepting or making a call, make sure your mobile phone's "Bluetooth function" is turned on.
- To ensure the best conversation quality/performance, stay within one meter of the microphone when talking.

#### Pairing Your Mobile Phone

Before using Bluetooth functions, you must pair your mobile phone and the unit. Pairing is a special process used when two devices connect for the first time. The pairing process is used to generate a link key that is used for authentication purposes for future Bluetooth® connections between devices.

Your mobile phone can initiate a search for a new device and pair the unit.

#### To Pair a Mobile Phone to the Unit:

*Note: The following procedures are generic. Procedures for pairing vary slightly from phone manufacturer to phone manufacturer.*

1. To enter pairing mode, press and hold the **BAND/TEL** button on the front panel or the  button on the remote control until "BT PAIRING" appears in the display panel.
2. Access the mobile phone's Bluetooth function and set the Bluetooth function to on. (Please refer to the mobile phone's instruction manual to enter Bluetooth setup, turn Bluetooth on/off, and perform pairing.)
3. Use the mobile phone's add a new device feature. "BT CAR STEREO" appears in the list on your mobile phone.
4. Select "BT CAR STEREO". The unit has an auto pairing function. It will search for the Bluetooth mobile phone and pair automatically. A prompt to connect should appear on your mobile phone. Accept the request and initiate the process.

*NOTE: Some mobile phones require a "pass key" or pairing code to connect. If your phone requires a pass key or pairing code, you will need to enter this number. The default pairing code for the unit is "0000".*



5. At this point a prompt stating that pairing is successful should appear. Another prompt should appear asking connect to the unit, Yes or No. Press Yes. The mobile phone and the unit should connect. The mobile phone should display a message similar to "Device Connected." The mobile phone and the unit are now connected.

When successfully paired, "BT CONNECTED" appears on the display panel.

*Note: If pairing fails, try to pair again within several seconds. Refer to the mobile phone's instruction manual. Delete the device that you just searched for and re-pair again.*

*Note: If you want to exit pairing mode while pairing, press any button on the front panel or remote control to exit pairing mode.*

### Auto-Reconnection

This unit has a built-in auto-reconnection function. In some conditions, the unit will auto reconnect with the mobile phone (note: the mobile phone must have been paired with the unit before.)

Before dialing, you need to confirm that "BT CONNECTED" appears on the display within ten seconds of the following conditions:

- When you turn off the unit and then turn it on again.
- Switch off the ACC wire and switch it on again.
- Press the (release) button to release the front panel and install the panel again.

If you press the phone button, 'BT PAIRING' may appear on the display panel. You can wait for several seconds to let the unit reconnect automatically or press and hold the button for several seconds to reconnect. During reconnection, the display panel will show "CONNECTING" several times and then show "BT CONNECTED" if the connection is successful.

### Displaying the Telephone Menu

1. When pairing is successful, press the PHONE button on the remote control to enter the telephone menu.
2. In PHONE mode press SEL button to select the items in this menu. The items will be displayed in the following sequence:  
RECEIVED —> DIALED —> MISSED

The telephone menu items are listed below:

• **RECEIVED:** Displays the calls you have received.

Press the or button to scan the last received numbers. Press the button to dial the number.

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- **DIALED:** Display the last dialed numbers.  
press **◀▶** to scan the numbers. Press the **📞** button to dial the number.
- **MISSED:** Displays the call you have missed.  
press **◀▶** to scan the numbers. Press the **📞** button to dial the number.

### Managing Incoming Calls

#### *Answering an Incoming Call*

Press the **📞** button to answer an incoming call.

#### *Rejecting an Incoming Call*

Press the **📞 / DISP** button to reject the incoming call.

### Making Outgoing Calls

Outgoing calls can be made in two manners. The outgoing call can be made by calling a number from the received, dialed or missed lists, or dialed directly using the remote control.

#### **To Make an Outgoing Call Using the Received, Dialed or Missed Lists:**

1. Press the **📞** button on the remote control to enter the telephone menu.
2. Press the volume knob to access the "RECEIVED", "DIALED" or "MISSED", menu items.
3. press the **◀▶** buttons to select a phone number.
4. Press the **📞** button to dial the number.

#### **To Dial Directly Using the Remote Control:**

1. Press the **📞** button on remote control. "PHONE" appears on the display panel.
2. Use the **0** to **9**, **\***, and **#** buttons to enter the phone number you want to dial.
3. Press the **📞** button again to call the number. "READY TO DIALING" appears on the display panel.

*Note: If you input a wrong number, press the **📞** button to clear it.*

4. To redial the number:

In phone mode, press **📞** button to redial the last number.  
"READY TO REDIALING" appear on the display panel.



### Transferring a Call

While talking, press the  button to transfer the phone call between the mobile phone and the unit.

*Note: If you transfer a call to mobile phone, the mute function is cancelled and the unit will return to the mode it was in prior to the call.*

### Adjusting the Bluetooth Default Volume

**To adjust the Bluetooth playback default volume:**

1. Change the source to BT AUDIO.
2. Press the volume knob to display "BT VOL 48".
3. Rotate the volume knob left or right to adjust the default volume level.

### Bluetooth Wireless Technology Music Function

Wireless products featuring Bluetooth technology provides an Advanced Audio Distribution Profile (A2DP) profile for streaming music from a mobile phone or a portable multimedia player (PMP), sometimes referred to as a MP3 player. The unit allows you to play back audio files from your mobile phone or a PMP using a Bluetooth® connection.

*Note: Your mobile phone must support this function. Please refer to your mobile phone's instruction manual.*

When in A2DP mode, only the  and  buttons or the  (Pause/Play) button (remote control only) are functional.

Press the  button on the front panel of the unit to choose the previous track.

Press the  button on the front panel of the unit to choose the next track.

Press the  (Pause/Play) button on the remote control to pause play.

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## SPECIFICATIONS

### CEA Power Ratings



Power output: 13 watts RMS X 4 channels into 4-ohms @ < 1% THD+N  
Signal to noise ratio: 70dBA below reference.  
(Reference: 1 watt, 4-ohms)  
Frequency response: 20Hz to 20kHz (-3dB),  
Auxiliary input used as source reference  
Reference supply voltage: 14.4VDC

### CD Player

Signal-to-noise ratio: >90dBA  
Frequency response: 20Hz-20kHz, -3dB  
Channel separation: >55dB @ 1kHz  
D/A converter: 1 Bit/CH

### FM Tuner

Tuning range (USA): 87.5MHz - 108.00MHz  
Tuning range (Europe): 87.50MHz-108.00MHz  
Tuning range (South America): 87.50MHz-108.00MHz  
Mono sensitivity: 12dBf  
50dB quieting sensitivity (stereo): 16dBf  
Stereo separation @ 1kHz: >35dB  
Frequency response: 30Hz-17kHz. -3dB

### AM Tuner

Tuning range (USA): 530 kHz - 1710kHz  
Tuning range (Europe): 522kHz-1620kHz  
Tuning range (South America): 530 kHz - 1710kHz  
Sensitivity @ 20dB signal to noise: 30uV  
Frequency response: 50Hz-2kHz, -3dB

### Auxiliary Input

Input sensitivity: 400mV RMS for 1 watt RMS into 4-ohms  
Frequency response: 20Hz to 20kHz, -3dB  
Input impedance: 10 k-ohms

### General

Power supply: 11-16 VDC, negative ground  
Power Antenna (Blue): 500mAmp Max, current limited protection.  
Operating Temp: -10C~60C  
Fuses: 10 amp fast blow ATO  
DIN chassis dimensions: 2"H x 7"W x 6.7"D  
(51mm x 178mm x 170mm)

**Specifications are subject to change without notice.**



## TROUBLESHOOTING

Before going through the checklist, the check wiring connections. If any of the problems persist after checking the list, contact your nearest service dealer.

Problem	Cause	Solution
No power.	<ul style="list-style-type: none"><li>The car ignition switch is not on.</li><li>The fuse is blown.</li></ul>	<ul style="list-style-type: none"><li>If the power supply is connected to the car accessory circuits, but the engine is not running, switch the ignition key to "ACC".</li><li>Replace the fuse. Make sure the amperage matches the specified value.</li></ul>
Disc cannot be loaded or ejected.	<ul style="list-style-type: none"><li>A disc is loaded inside the player.</li><li>The transport screws are installed.</li></ul>	<ul style="list-style-type: none"><li>Remove the disc in the player, then insert a new one.</li><li>Remove the two transport screws from the top of the unit.</li></ul>
Disc does not play back.	<ul style="list-style-type: none"><li>The disc is inserted in the wrong direction.</li><li>Incompatible disc is used.</li><li>Disc is warped or scratched.</li><li>The compact disc is extremely dirty or defective.</li><li>The laser pickup is dirty.</li><li>The temperature inside the car is too high.</li><li>Condensation.</li></ul>	<ul style="list-style-type: none"><li>Insert the compact disc with the label facing upward.</li><li>Use a compatible disc.</li><li>Use disc in good condition.</li><li>Clean the disc with a soft cloth or try to play a new one.</li><li>Clean the laser pickup with a cleaning disc.</li><li>Cool off until the temperature returns to normal.</li><li>Turn the player off for an hour, then try again</li></ul>
No sound.	<ul style="list-style-type: none"><li>The volume is at minimum.</li><li>The wiring is not properly connected.</li></ul>	<ul style="list-style-type: none"><li>Adjust the volume to a desired level.</li><li>Check the wiring connection.</li></ul>
Sound skips.	<ul style="list-style-type: none"><li>The installation angle is greater than 30 degrees.</li><li>The disc is extremely dirty.</li><li>The disc is defective.</li></ul>	<ul style="list-style-type: none"><li>Adjust the installation angle to less than 30 degrees.</li><li>Clean the compact disc.</li><li>Play a new compact disc.</li></ul>

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Problem	Cause	Solution
The operation keys do not work.	<ul style="list-style-type: none"><li>The built-in microcomputer is not operating properly due to noise.</li></ul>	<ul style="list-style-type: none"><li>Press the <b>RESET</b> button.</li><li>The faceplate is not properly installed.</li></ul>
The radio does not work.	<ul style="list-style-type: none"><li>The antenna cable is not connected.</li></ul>	<ul style="list-style-type: none"><li>Insert the antenna cable firmly.</li></ul>
The radio station automatic selection does not work.	<ul style="list-style-type: none"><li>The signals are too weak.</li></ul>	<ul style="list-style-type: none"><li>Select a station manually.</li></ul>



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## CARE AND MAINTENANCE

1. Use only a clean silicon cloth and neutral detergent to clean the front panel. 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. Do not use petroleum distillates to clean this unit.
4. Insert only 5" (12 cm) compact discs into the player. 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. 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 display 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 you may in a home unit due to the environmental conditions of the vehicle.

### Replacing the Fuse

Make sure the amperage matches the specified value when replacing the fuse(s). If the fuse is bad, check the power connection and replace the fuse with a new one. If the same problem occurs, this might indicate a malfunction within the unit.

***Warning! When replacing a fuse, do not use a fuse with a higher amperage rating than the fuse originally supplied to your unit, otherwise damage will result to your unit.***

## **MP1516BT**

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### **COMMON REPLACEMENT PARTS**

Detachable Faceplate	30213850
Owner's Manual Kit	30613850
Wire Harness	30313840
Trim Ring	30413840
Main Sleeve	30113840
Hardware Bag	30513840
Remote Control	30713850
Microphone	34413850

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.  
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.  
This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

RF Exposure: A distance of 20 cm shall be maintained between the antenna and users, and the transmitter may not be co-located with any other transmitter or antenna.

**Audiovox Electronics Corporation**  
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