



# MP1516BT

Mobile Audio System  
Owner's Manual



**160** watts peak  
40W x 4



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 MP1516BT Mobile Audio System for maximum enjoyment.



"Made for iPod" and "Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developers to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety or regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

Made for:

- iPod touch (1st, 2nd, 3rd, and 4th generation)
- iPod nano (3rd, 4th, 5th, and 6th generation)
- iPod Classic
- iPod with video
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3
- iPhone

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**WARNING! Stop your vehicle before carrying out any operation that could interfere with your driving.**

**WARNING! Never disassemble or adjust the unit. Do not attempt to modify the unit. Modifying the unit may cause an accident.**

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

**WARNING! Never use irregular discs.**

**WARNING! Do not turn on the unit if the temperature inside the vehicle is below -4 °F (-20 °C) or above 140 °F (60 °C).**

**WARNING! When replacing a fuse, the replacement must be the same amperage as shown on the fuse holder. Never replace a fuse with another fuse of a different value. Do not use a fuse with a higher amperage rating than the fuse originally supplied with your unit, otherwise damage to the unit or a fire will result.**

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## FEATURES

- AM/FM Receiver
- RDS/EON Operation
- CD/MP3/WMA Player with Electronic Skip Protection (ESP)
- Supports CD-R and CD-RW Playback
- Automatic Memory Storing
- Fully Detachable Faceplate
- Preset Equalization
- USB and SD Card Interface
- Auxiliary Input Function
- iPod®/iPhone® Ready Function
- Remote Control
- Bluetooth® wireless technology Hands-free function and A2DP (Advanced Audio Distribution Profile) Stereo Audio Transmission

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### WARNINGS BEFORE INSTALLATION

Important warnings to take note of BEFORE installing the unit:

**Damage caused by incorrect installation or usage is NOT covered by the warranty. PLEASE take the time to read the installation instructions carefully.**

**To validate the warranty please ensure that the unit is installed by a professional, VAT registered car audio installation company.**

- To avoid shorts in your vehicle's electrical system, be sure to disconnect the battery cable before beginning installation.
- This unit is intended for vehicles with a 12-volt battery and negative grounding. Before installing the unit in a recreational vehicle, truck, or bus, check that the battery voltage is 12 volts.
- Remove the two transport screws from the top of the unit before installation.
- **The black lead is ground.** A good chassis ground requires a tight connection to ground. The area should be free from rust, paint or any form of dirt. Please ground this lead separately from the ground of high-current products such as power amps. If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.
- Be sure to connect the color coded leads according to the wiring diagram. Incorrect connections may cause the unit to malfunction or damage the vehicle's electrical system. Wires for this product and those for other products may be different colors even if they have the same function. When connecting this product to another product, refer to the supplied installation manuals of both products and connect wires that have the same function.
- Be sure to connect the negative (-) speaker leads to the negative (-) speaker terminal. Never connect the negative (-) speaker leads to chassis ground.
- The unit is only designed for use with 4 speakers. Do not combine outputs for use with 2 speakers. Do not ground negative speaker leads to the chassis ground.
- Speakers connected to this unit must be high-power units with a minimum rating of 45W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here will result in damage to the head unit and the speakers. Check the condition of your speakers carefully. Connecting this unit to old or degraded speakers may result in a fault which will damage the audio IC and invalidate the warranty.



- If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/Off operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts. To avoid short-circuiting, cover all disconnected lead with insulating tape. There is a possibility of short-circuiting if the leads are not insulated.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear lever and handbrake. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle's body.
- Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead's insulation and cause a very dangerous short.
- Do not short any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
- Since an unique audio I/C circuit is employed, never wire the unit so the speaker leads are directly grounded or the left (-) and right (-) speaker leads are common.
- When this product's source is switched ON, a control signal is outputted through the blue lead. Connect to an external power amp's system remote control or the car's Auto-antenna relay control terminal (max. 300mA 12 V DC). If the car features a glass antenna, connect to the antenna booster power supply terminal.
- When an external power amp is being used with this system, do not connect the blue lead to the amp's power terminal. Likewise, do not connect the blue lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and a major malfunction. Refer to the relevant owner's manual for details on connecting the power amp and other units, then make the connections correctly.
- Do not block any vents or heater panels. Blocking them will cause heat to build up and may result in fire.
- Make sure that the unit has a good chassis ground. A good ground connection will eliminate most electrical noise. A good chassis ground requires a tight connection to the vehicles metal chassis. The area around the ground connection should be clean, bare metal without rust, paint, plastic or dirt.

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- If noise is still experienced when the motor of the vehicle accelerates, a choke should be placed in line with the power to the unit. The installation company will know what is required.
- When replacing the fuse(s) the replacement must be of the same amperage as shown on the fuse holder. Never replace a fuse with another fuse of a different value. If the fuse blows again please contact your installation company.
- Double check that all wiring and connections are correct before re-connecting the battery and turning on the unit.
- After completing the installation and before operating the unit, reconnect the battery, then press the **RESET** button with a pointed object, such as a ball-point pen to set the unit to its initial status.

## INSTALLATION TOOLS

Two removal wrenches are supplied for taking out the old unit and place with this brand name car radio. The following tools and supplies may also be needed for the installation, but are not supplied:

### Installation Tools:

- Phillips Screwdrivers
- Wire Stripper
- Wire Cutter
- Hammer
- Pencil
- Electrical Tape
- Electric Drill

### Installation Supplies:

- Machine Screws
- Crimp Connectors
- 14 Gauge Wire for Power Connections
- 14-16 Gauge Speaker Wires

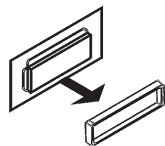
## BEFORE YOU INSTALL

Automotive audio equipment installations can be troublesome at times, even to the most experienced of installation technicians. If you are not confident working with electrical wiring, removing and reinstalling interior panels, carpeting, dashboards or other components of your vehicle, please call your dealer in order to have the unit professionally installed.



## Remove the Old Unit from the Dashboard

1. Remove the outer trim frame.



DIN Front Mount

2. Insert the keys supplied with the old unit into both sides of the unit as shown in figure below until they click. Pull to remove the old unit from the dashboard.



Do not disconnect  
wires at this time!

## Mark the Polarity of the Speaker Wires

Marking the polarity of the speaker wires will make it easier to connect the existing speakers to your car radio. Consult the wiring diagram of the existing head unit before disconnecting any wires. If you are not positive of the polarity of the existing wires from the speakers to the head unit, install new wires.

1. While the old unit is playing, disconnect the wires from one speaker.
2. Take a length of masking tape and fold it around the wire so it forms a flag.
3. On the masking tape mark the polarity of the speaker wires (+ & -), as well as left or right, and front or rear.
4. Double check that you marked the first speaker correctly by checking that the speaker wires are the same at the head unit.
5. Repeat this procedure for all of the speakers.
6. Mark the power, ground, and any other wires.



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### INSTALLATION

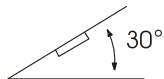
It's a good idea to read all of the instructions before beginning the installation. We recommend having your Jensen MP1516 Mobile Audio System installed by a reputable installation shop.

**WARNING! Disconnect the negative battery terminal from the battery before starting installation. Consult the vehicle's owner's manual for proper instructions.**

**NOTE:** Mark the polarity of the existing speaker wires before disconnecting battery.

#### Notes:

- Choose a mounting location where the unit will not interfere with the driver.
- Before installing the unit, temporarily connect the wiring. Make sure it is connected up properly and the unit and the system work properly.
- To ensure proper installation, use only parts included with the unit. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications to the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If the installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.



- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.

### DIN Front/Rear Mount

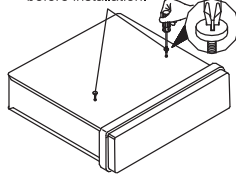
This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.



### ***Remove the Transport Screws Before Installation***

Remove the two transport screws from the top of the unit before installing the unit.

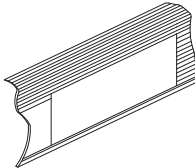
Remove screws  
before installation.



### **DIN Front Mount (Method A)**

#### ***Installation Opening***

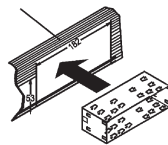
This unit can be installed in any dashboard having an opening as shown below:



#### ***Installing the Unit***

Be sure you test all connections first, and then follow these steps to install the unit

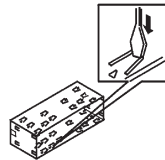
1. After removing the old radio and mounting sleeve, insert the supplied mounting sleeve into opening.



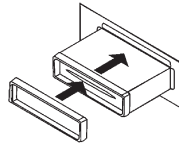
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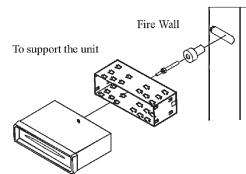
2. Bend the tabs on the mounting sleeve to keep the mounting sleeve firmly in place.



3. Attach the wires from the unit to existing wires. See the wiring connections diagram. Insert the radio into the dashboard. Then apply the trim frame to the outside of radio.



4. Support the radio using the supplied rear mounting bolt and steel bar. See the parts list.





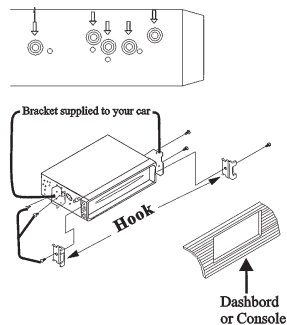
### DIN Rear Mount (Method B)

This method of installation uses the screw holes at the sides of the unit and the holes of the existing vehicle mounting bracket. This is only intended as a general guide; contact the vehicle's manufacturer for specific instructions.

**NOTE:** Outer trim frame, hook, and mounting sleeve are not used for this installation.



1. Remove the hooks on both sides.
2. Align the screw holes of the mounting bracket supplied with the car and the screw holes of the main unit. Tighten the two screws on each side of the unit. Then fasten the brackets to the car.




3. Attach the wires of the unit to the existing speaker wires. See the wiring diagram.

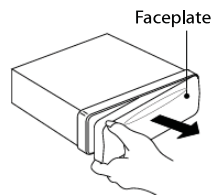
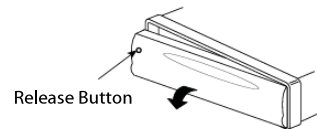
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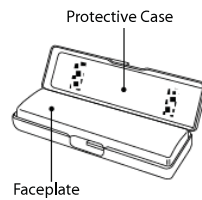
### USING THE DETACHABLE FACEPLATE

#### Removing the Faceplate

1. Press the  (release) button on the faceplate and pull off the faceplate.



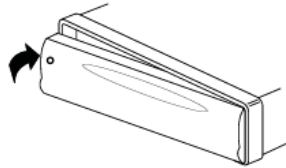
2. Keep the faceplate in the protective case.





### **Installing the Faceplate**

To install the faceplate, insert the faceplate into the housing and make sure it is properly installed. Otherwise, the display may appear to be abnormal or some buttons will not function properly.

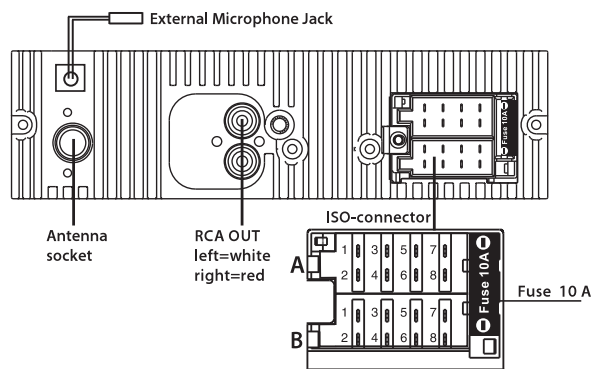


### **Handling Precautions**

1. Do not drop the faceplate.
2. Do not put pressure on the display or control buttons when detaching or re-installing the faceplate.
3. Do not touch the contacts on the faceplate or on the main unit body. It may result in poor electrical contact.
4. If any dirt or foreign substances adhere to the contacts, they can be removed with a clean and dry cloth.
5. Do not expose the faceplate to high temperatures or direct sunlight.
6. Keep away any volatile agents (e.g. benzene, thinner, or insecticides) from touching the surface of the faceplate.
7. Do not attempt to disassemble the faceplate.

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### WIRING CONNECTIONS



#### Connector A

1. Rear right speaker (+) / Blue
2. Rear right speaker (-) / Blue-White
3. Front right speaker (+) / Grey
4. Front right speaker (-) / Grey-White
5. Front left speaker (+) / Green
6. Front left speaker (-) / Green-White
7. Rear left speaker (+) / Brown
8. Rear left speaker (-) / Brown-White

#### Connector B

1. No connection
2. No connection
3. No connection
4. Battery 12V (+) / Yellow
5. Antenna Power / Blue
6. Panel Light / White
7. ACC+ / Red
8. Ground / Black

#### Speaker Wiring Notes

Follow the above wiring diagram to install the head unit with new or existing speakers.

- This unit is designed for use with four (4) speakers with an impedance from 4 Ohms to 8 Ohms.
- An impedance load of less than 4 Ohms can damage the unit.
- Never bridge or combine the speaker wire outputs. When not using four speakers, use electrical tape to tape the ends of the unused speaker outputs to prevent a short circuit.
- Never ground the negative speaker terminals to chassis ground.



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**Black Ground Wire**

Connect the Black Ground wire to the vehicle body/chassis. Make sure that you have a good chassis ground. Good ground connections will eliminate most electrical noise from the motor and alternator. A good chassis ground requires a tight connection to the vehicle's metal chassis. The area around the ground connection should be clean, bare metal without rust, paint, plastic, dust or dirt.

**Red Accessory/Ignition Wire**

Connect the Red Accessory/Ignition wire to a terminal coupled to the ignition switch's ACC (accessory) position.

*Note: If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/Off operations.*

**Yellow Memory Backup Wire**

Connect the Yellow Memory Backup wire to an electrical terminal always supplied with power regardless of ignition switch position.

**Blue Remote Wire**

Connect the Blue Remote wire to an Auto-antenna or power amp control wire/remote connection. Maximum current 300Ma 12 V DC. (Low Current)

**White Panel Light Wire**

Connect the White Panel Light wire to the lighting circuit of vehicle. This will illuminate the buttons on the display for night time operation. This wire can also be connected to the Blue Remote wire to activate the buttons when the unit is powered on. DO NOT JOIN THE WHITE WIRE TO THE LIGHTING CIRCUIT OF THE VEHICLE IF CONNECTED TO THE BLUE REMOTE WIRE.

**External Microphone Jack**

You can connect an external microphone to the 3.5 mm microphone jack on the back of unit. Install a microphone in your vehicle in an accessible location that provides optimum voice reception.

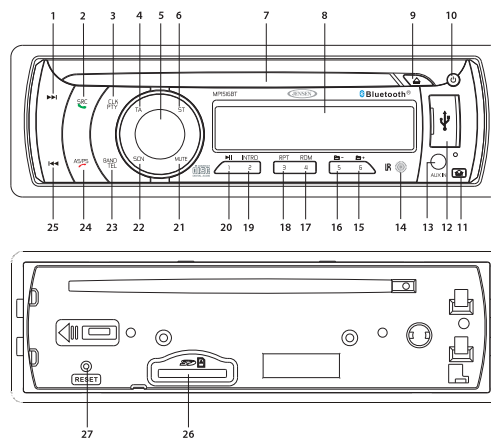
**RCA Output Jacks**

The RCA Output Jacks are for connecting amplifier, equalizer, or other audio components that require a pre-amp out connection (Red = Right, White = Left). Follow the manufacturers instructions for the audio component that you are connecting.



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### CONTROLS AND INDICATORS



1. **▶▶ (Next Track / Fast Forward) Button**  
During disc play, this button is used to quickly select the end of a particular track in the forward direction. With each press of ▶▶ the button, the next higher track number will be selected as shown on the display panel. Press and hold the button to advance rapidly in the forward direction as indicated by the elapsed time display.
2. **SRC (Mode Select) / ⏻ (Answer) Button**  
Press this button to select radio, auxiliary device or disc play. USB or SD mode can only be selected when an USB flash memory or SD card is inserted into the USB port or SD port, respectively.  
In Bluetooth mode, press this button to answer a call.
3. **CLK (Clock) / PTY (Program Type) Button**  
Press this button to show the clock on the display panel.  
In FM radio mode, press this button to show the program type. Immediately press this button again access the program type selection function.
4. **TA (Traffic Announcement) Button**  
Press this button to turn the traffic announcement function on or off.
5. **Volume Knob (when rotated) / SEL (Sound Select) Button (when pressed)**  
Rotate the knob to increase or decrease the volume. VOL will appear on the display panel, followed by the setting number.  
When pressed, the knob performs the Select function. This button is used to select the audio function (bass, treble, balance, fade or loudness) to be adjusted.



6. **ST (Stereo) Button**

In FM radio mode, press this button to switch between stereo and mono mode of reception.

7. **Disc Slot**

With the label surface facing up, fully insert a compact disc into the slot until the load mechanism engages.

*Note: This unit is designed for play of standard 5" (12 cm) Compact Discs ONLY. Do not attempt to use 3" (8 cm) CD-Singles in this unit, either with or without an adapter, as damage to the player and/or disc can occur. Such damage will not be covered by the Warranty on this product.*

8. **Liquid Crystal Display Panel**

The Liquid Crystal Display (LCD) panel displays the band and radio station frequency. If the station transmits music information this will also be displayed. This information usually consists of song title and artist. Also the radio can display PTY categories such as news, sports, talk etc.

9. **▲ (Eject) Button**

Press this button to eject the disc from the slot. If the disc is not removed from the slot within 5 seconds, it will automatically be loaded into the slot again. When the disc is ejected and removed, the unit will automatically switch to radio mode.

10. **⏻ (Power On/Off) Button**

Press this button to turn the unit ON.  
Press this button to turn the unit OFF.

11. **⏏ (Release Panel) Button**

Press this button to release the faceplate from the chassis.

12. **USB Input Cover**

Front panel cover which when open allows the connection of a USB device, iPod/iPhone, or auxiliary input device for playback of music files.

13. **Auxiliary Input Jack**

Accepts a 3.5 mm jack which can accept signals from various audio/video devices.

14. **Remote Control Receiver**

Detects signals from the remote control.

15. **6 / ⏮ + (Folder Up) Button**

Press this button once to advance one folder.

16. **5 / ⏮ - (Folder Down) Button**

Press this button once to go back one folder.

17. **4 / RDM (Random) Button**

Press this button to play all the tracks in random order. Press this button again to stop random play.

18. **3 / RPT (Repeat) Button**

Press this button to repeat the current track. Press this button again to cancel the repeat function.

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19. **2 / INTRO (Introduction) Button**

Press this button to play the first 10 seconds of each track. Press this button again to resume playback.

20. **1 / ►|| (Play/Pause) Button**

Press this button to pause playback. Press this button again to resume playback.

21. **Mute Button**

Press this button to mute the audio. Press this button again to unmute the audio.

22. **SCN (Scan) Button**

In radio mode, pressing this button will enter the scan mode. The unit will scan to a higher frequency station and stay on each station for five seconds (the corresponding frequency will flash on LCD).

23. **BAND / TEL Button**

In radio mode, press this button to select or change the radio band (FM1, FM2, FM3, AM1 or AM2).

In Bluetooth mode, press this button to initiate the pairing process.

24. **AS / PS (Auto Store/Preset Scan) / (Hang Up) Button**

Press to scan through a 5 second preview of each station preset.

Press and hold to access the Auto-Store Tuning feature which will automatically scan and enter up to eighteen strong stations into the six preset memory locations for FM1, FM2 and FM3. If the radio is in AM mode, it will scan and store up to twelve strong stations into the six preset memory locations for AM1 and AM2. If you have already set the preset memories to your favorite stations, activating the Auto-Store feature will erase those stations and enter the new strong stations. After completing an Auto-Store Tuning function, the radio automatically performs a 5 second preview of each stored preset.

In Bluetooth mode, press this button to hang up or reject an incoming call.

25. **◀◀ (Previous Track / Fast Reverse) Button**

During disc play, this button is used to quickly select the beginning of a particular track in the backward direction. With each press of the ◀◀ button, the next lower TRACK number will be selected as shown on the display panel. Press and hold the button to advance rapidly in the reverse direction as indicated by the elapsed time display

26. **SD Memory Card Slot**

The memory card slot is located behind the front panel and is used to insert an SD card for playback of music files.

27. **Reset Button**

The reset button is accessed when the front panel is removed. Press this button to reset the system settings to the factory default settings.



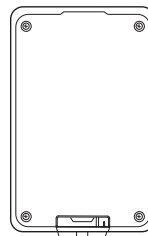
## REMOTE CONTROL OPERATION

### Battery Installation

The remote control comes with a battery already installed with a Pull Tab to prevent battery discharge. Remove the Pull Tab before attempting to use the remote control.

*Note: The remote control will only operate this device. It is not a universal remote control and will not control other equipment.*

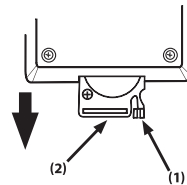
Remote Control  
Back View



Protective Pull Tab (Clear Plastic)

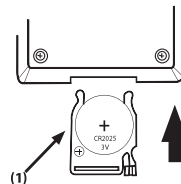
#### To replace the batteries:

1. While holding the remote control, insert your thumbnail into the battery door side notch (1) and index fingernail into battery door upper notch (2). Slide the battery holder open.



2. Install one CR2025 battery (1).

*Note: Make sure that the proper polarity (+ or -) is observed.*



3. Slide the battery holder back into the remote control until it locks.

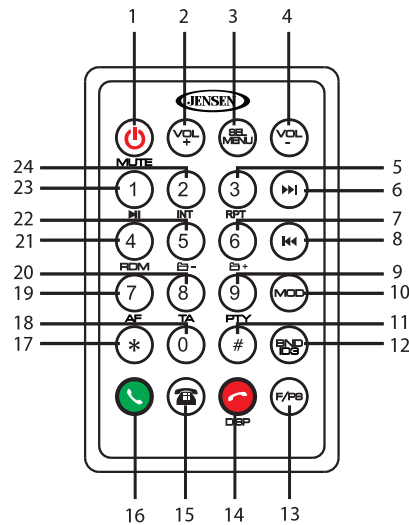
## MP1516BT

### Using the Remote Control

1. Point the Remote Control at the remote control receiver on front panel of the unit. Make sure that the signal path is not obstructed.
  2. Press the function keys on the handset to control the system.
- Note: The maximum distance at which signals can be received is about 6 feet.

Do not drop or throw the remote control. Do not place the remote control in a location that is exposed to direct sunlight or next to a heating unit or other heat source.

### Remote Control Functions








1. **⏻ (Power On/Off) / MUT (Mute) Button**  
Press this button to turn the unit ON. Press and hold this button to turn the unit OFF.  
When the unit is on, press this button to mute the audio. Press this button again to unmute the audio.



2. **VOL + Button**  
Press this button to increase the volume.
3. **SEL (Sound Select) / MENU Button**  
Press this button select the audio function (bass, treble, balance, fade or loudness) to be adjusted.  
**VOL - Button**  
Press this button to decrease the volume.
4. **3 / RPT (Repeat) Button**  
Press this button to repeat the current track. Press this button again to cancel the repeat function.
5. **▶▶ (Stations Tune/ Seek Up / Track Up) Button**  
In radio mode, press the ▶▶ button briefly to activate the automatic seek function and tune to next strong station.  
In MP3/WMA mode, press the ▶▶ button to move to the following track.  
In iPod® or iPhone® mode, press the ▶▶ button to play the next track in the current category.
6. **6 / ▢ + (Folder Up) Button**  
Press this button once to advance one folder.
7. **◀◀ (Stations Tune/ Seek Down / Track Down) Button**  
Press the ◀◀ button briefly to activate the automatic seek function and tune to the previous strong station.  
In MP3/WMA mode, press the ◀◀ button to move to the previous track.  
In iPod or iPhone mode, press the ◀◀ button to play the previous track in the current category.
8. **9 / PTY (Program Type) Button**  
Press this button once to show the music type program. Press this button twice to show the speech type program.
9. **MOD (Mode) Button**  
Press this button to select radio, auxiliary device or disc play. USB or SD mode can only be selected when an USB flash memory or SD card is inserted into the USB port or SD port, respectively.
10. **# (Pound) Button**  
In Bluetooth mode, press and hold this button to connect or disconnect the unit and wireless phone.  
In Bluetooth mode, press this button to enter the # (pound) symbol.
11. **Band / ID3 Button**  
Press this button to select or change the radio band (FM1, FM2, FM3, AM1 or AM2).

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12. **F/PS Button**  
In FM or AM mode, press and hold this button to activate the preset scan and save function.  
In USB/SD mode, press this button to access the folder or directory search function.
13.  **(Hang Up) / DISP Button**  
In Bluetooth mode, press this button to hang up or reject an incoming call.
14.  **(Pair) Button**  
In Bluetooth mode, press this button to initiate the pairing process.
15.  **(Pick Up) Button**  
In Bluetooth mode, press this button to pick up a call.
16. **\* (Star) Button**  
In Bluetooth mode, press this button to enter the \* (star) symbol.
17. **0 Button**  
Press this button to enter 0.
18. **7 / AF (Alternative Frequencies) Button**  
Press this button to turn the Alternative Frequencies function on or off.
19. **8 / TA (Traffic Announcement) Button**  
Press this button to turn the Traffic Announcement function on or off.
20. **4 / RDM (Random Play) Button**  
Press this button to play all the tracks in random order. Press this button again to stop random play.
21. **5 /  - (Folder Down) Button**  
Press this button once to go back one folder.
22. **1 /  (CD Pause/Play) Button**  
Press this button to pause playback. Press this button again to resume playback.
23. **2 / INT (Introduction Scan) Button**  
Press this button to play the first 10 seconds of each track. Press this button again to resume playback.



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## BASIC OPERATION

### Turning the Unit On or Off

Press the **⏻** (Power On/Off) button, or press and hold any button to turn the unit on. The message "JENSEN" appears on the display panel, indicating the unit is ready for use.

When the unit is on, press the **⏻** (Power On/Off) button to turn the unit off.

### Selecting an Audio Source

Press the **SRC** button on the faceplate or the **MOD** button on the remote control to select radio, auxiliary device or disc play.

*Note: USB or SD mode can only be selected when an USB flash memory or SD card is inserted into the USB port or SD port, respectively.*

### Volume

Rotate the volume knob on the faceplate or press the **VOL +** or **VOL -** button on the remote control to adjust the volume level. The larger the number, the higher the volume level.

### Mute Control

Press the **MUTE** button briefly to mute the sound instantly. "MUTE" appears on the display panel. Press it again to restore the sound. Adjusting the volume knob also cancels the mute function.

### System Settings

When using the mobile audio system for the first time, it is recommended that you customize the system settings to suit your preferences.

#### **Programmable Volume Turn On**

This setting allows a user to select a turn-on volume setting regardless of the volume setting prior to turning the unit off.

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "VOL" appears on the display panel.
2. Rotate the volume knob to set the volume.



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### **Sound Adjustment Mode**

The sound adjustment mode allows you to easily adjust your mobile audio system to meet the acoustical characteristics of your vehicle.

#### **To adjust the bass:**

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "BAS" appears on the display panel.
2. Rotate the volume knob to adjust. When an equalizer preset is ON, bass control is not available.

#### **To adjust the treble:**

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "TRE" appears on the display panel.
2. Rotate the volume knob to adjust. When an equalizer preset is ON, treble control is not available.

#### **To adjust the balance:**

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "BAL" appears on the display panel.
2. Rotate the volume knob to adjust the balance between the left and right speakers.

#### **To adjust the fader:**

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "FAD" appears on the display panel.
2. Rotate the volume knob to adjust the balance between the front and rear speakers.

### **Preset Equalizer Function**

The Preset Equalizer function applies a preset sound level to the unit's audio output signal in accordance to the type of music being played.

#### **To select an equalizer preset:**

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "EQ" appears in the display panel.
2. Rotate the volume knob to choose the equalizer sound effects. The sequence of equalizer settings will be as follows:

POP — ROCK — CLASSIC —  
JAZZ — OFF —



### ***Loudness Control***

Loudness automatically alters the frequency response curve of audio to make it sound more natural when played at a lower volume level.

1. Press the volume knob or press the **SEL** button on the remote control until "LOUD OFF" appears on the display panel. This indicates that the loudness function is OFF.
2. Rotate the volume knob to select ON or OFF.

### ***Turning the Preset Beep Sound On or Off***

An audible beep tone confirms each function selection.

1. Press the volume knob or press the **SEL** button on the remote control repeatedly until "BEEP ON" appears on the display panel.
2. Rotate the volume knob to select "BEEP OFF" or "BEEP ON".
3. Leave the unit idle for the setting to take effect.

### ***Setting the Clock***

The time clock can be set anytime when the power is on.

1. Press the **CLK/PTY** button on the faceplate once (press and hold for more than 2 seconds during radio mode). The time will appear on the display panel.
2. Press and hold the **CLK/PTY** button until the hour blinks on the display panel. Rotate the volume knob to set the hours.
3. Press the volume knob for the minutes to blink. Rotate the volume knob to set the minutes.
4. Press the **CLK/PTY** button on the faceplate again or leave the unit idle for new setting to take effect.
5. Press the **CLK/PTY** button on the faceplate anytime to view the time clock display.

### RADIO OPERATION

#### Choosing a Radio Band

Press the **SRC** button on the faceplate or the **MOD** button on the remote control to select radio mode. The radio frequency appears in the display panel together with the frequency memory band (FM1, FM2, FM3, AM1 or AM2).

The unit has five preset memory bands - three FM Bands (FM1, FM2, and FM3) and two AM Bands (AM1 and AM2). Each of the five bands can store up to six preset stations, for a total of 30 preset memory stations.

#### Selecting the Frequency Band

In radio mode, press the **BAND/TEL** button on the faceplate or the **BND/ID3** button on the remote control briefly to select the desired band. The reception band will change in the following order:

FM1 → FM2 → FM3 → AM1 → AM2

#### Radio Tune / Seek Function

In radio mode, press and hold the **◀◀** or **▶▶** button for 2 seconds. "MANUSEEK" appears on the display panel. Press the **◀◀** or **▶▶** button once to manually adjust the radio frequency.

#### Tuning

Press the **◀◀** or **▶▶** button once. The radio will seek the next strong and clear frequency station. Repeat to seek more stations with a strong signal in your listening area.

#### Mono/Stereo Reception Control

The reception of distant stations may be improved by selecting "MONO" operation. "MONO" operation may cut down some reception noise.

1. In FM radio mode, press the volume knob or press the **SEL** button on the remote control until "MONO" appears on the display panel.
2. Rotate the volume knob to select STEREO or MONO.

#### Local / Distance Control

The local and distance reception setting can improve radio reception, depending on the location where the radio is being used.

1. In FM radio mode, press the volume knob or press the **SEL** button on the remote control until "LOCAL" appears on the display panel.
2. Rotate the volume knob to select "LOCAL" or "DX".



### **Saving Your Preset Stations**

There are six numbered preset buttons which can store and recall stations for each band. While listening to a radio station you would like to save as a pre-set, press and hold one of the buttons numbered 1-6 until you hear a beep. The button you pressed is now the preset button for that station.

### **Automatic Scan and Store**

The Automatic Memory Storing feature is most useful when travelling in an area where you are not familiar with the local stations. The Auto-Store Tuning feature will automatically scan and enter up to eighteen FM strong stations into the preset memory locations for the FM1, FM2 and FM3 bands or twelve strong AM stations into the preset memory locations for the AM1 and AM2 bands. Each band stores up to six preset stations.

While listening to the FM radio, press the **AS/PS** button on the faceplate or press and hold the **F/PS** button on the remote control. The receiver will automatically scan and save stations of the 3 FM bands.

While listening to the AM radio, press the **AS/PS** button on the faceplate or press and hold the **F/PS** button on the remote control. The receiver will automatically scan and save stations of the 2 AM bands.

*Note: If you have already set the preset memories to your favorite stations, activating the Auto-Store feature will erase those stations and enter the new strong stations.*

### **Radio Data System (RDS) Operation**

The Radio Data System (RDS) simultaneously transmits digital data along with the audio signal on FM radio. Although RDS is a European standard, it is also used in the USA, where it is called Radio Broadcast Data System (RBDS). RDS enables traffic reports to be received and provides many facilities, including enabling the radio station name and program information to be displayed on the display panel. RDS service availability varies with areas. If RDS service is not available in your area, the following services are not available, either.

### **Listening to Traffic Announcements (TA)**

Press the **TA** button to turn Traffic Announcement function on or off. "TA" appears on the display panel when Traffic Announcement is on.

In TA mode traffic programs will be automatically searched, until the program is received. When a traffic announcement is received the unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement. After the traffic announcement is over, it will return to the previous mode and volume level.

To interrupt a traffic announcement, briefly press the **TA** button; it will not switch off the TA mode.

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### **Selecting an FM Station by Program Type (PTY)**

This radio will allow you to select the type of program required, and will search for a station broadcasting that type of program.

1. Press the **CLK/PTY** button until the program type and "PTY" appears on the display panel.
2. Immediately press the **CLK/PTY** button again, then press the 1 - 6 button to choose the type of program. Press the number button repeatedly to choose a program type as shown in the table below.

Button	Program Type
1	Rock, Country, Classical, News, Personality
2	Classic Rock, Oldies, RB, Information, Public
3	Adult Hits, Soft, Soft RB, Sports, College
4	Soft Rock, Nostalgia, Language, Talk, Weather
5	Top 40, Jazz, Religious Music, Religious Talk
6	Spanish Talk, Spanish Music, Hip Hop, Emergency Test, Emergency

When a program type is selected, the radio starts to search corresponding PTY information, and stops if the corresponding PTY information is detected. If no buttons are pressed within several seconds, the previously selected PTY is searched. During one loop, if desired the PTY is not found, the unit will return to the previous mode.

3. Press the **CLK/PTY** button on the faceplate to switch the PTY function off.



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## CD/MP3/WMA OPERATION

### Loading a Disc

Insert a disc into CD slot with label side up. The disc will be automatically loaded into the unit, even when it is off or in radio mode. The word "LOAD" will blink on the display panel and the CD will play automatically.

### Ejecting a Disc

Press the **▲** (Eject) button to eject the disc from the slot. If the disc is not removed from the slot within 5 seconds, it will automatically be loaded into the slot again. When the disc is ejected and removed, the unit will automatically switch to radio mode.

### Selecting a Track

Press the **▶▶** button to advance CD to the next track. Track numbers will appear on the display. Press and hold the **▶▶** button to fast forward.

Press the **◀◀** button to go to a previous track. Track numbers will appear on the display. Press and hold the **◀◀** button to fast reverse. The disc will play normally when the **1 / ▶||** (Pause/Play) button is pressed.

### Pausing or Resuming Playback

Press the **1 / ▶||** (Pause/Play) button to pause the CD. Press the **1 / ▶||** (Pause/Play) button again to resume playback.

### Scanning Tracks

Press the **2 / INTRO** (Introduction) button to play the first 10 seconds of each track. "INT" appears on the display panel. Press this button again to resume playback.

### Repeating a Track

Press the **3 / RPT** (Repeat) button to repeat the current track. Press it again to cancel the repeat function.

### Playing Tracks in a Random Order

Press the **4 / RDM** (Random) button to play all the tracks in random order. "RDM" appears on the display panel. Press this button again to stop random play.