

# BTWP2

*Bluetooth & TV Connection Wall Plate*

## Installation and Operation Manual



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# INTRODUCTION

## Thank You!

Thank you for choosing our 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 Bluetooth wall plate for maximum enjoyment.

## Features

- 12V Bluetooth wireless audio receiver and amplifier
- Digital audio input (TV Connection)
- Simple, Intuitive operation and BT pairing
- 4-Speaker, 2-Zone audio output
- Class-D Amplifier

## Precautions

### • Use the Proper Power Supply

This product is designed to operate with a 12 volt DC, negative ground battery system (the standard system in a North American vehicle).

### • Use Authorized Service Centers

Do not attempt to disassemble or adjust this precision product; contact a professional for assistance.

### • Avoid Moisture

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

### • Avoid Cleaning Products

The front of this unit should only be cleaned with a slightly damp cloth. Do not use cleansers.

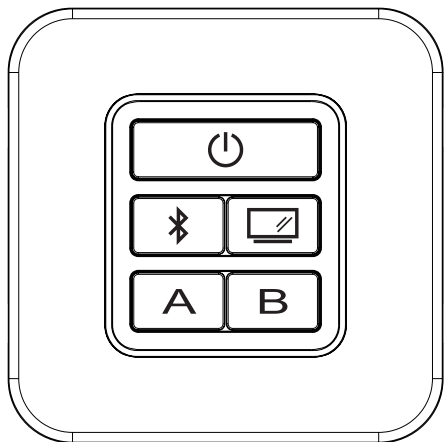
### • Use Recommended Accessories.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

**WARNING:** Minimum recommended load per audio channel is 4-Ohms. Do not connect speakers or combination of speakers in parallel that results in a load that is less than 4-Ohms.

## Packing List

- BTWP2



## INSTALLATION

It's a good idea to read all of the instructions before beginning the installation. We recommend having your wall plate installed by a reputable RV dealership.

### Tools and Supplies

You will need these tools and supplies to install your BTWP2:

- Phillips screwdriver
- Wire cutters and strippers
- Tools to remove existing radio (screwdriver, socket wrench set or other tools)
- Electrical tape
- Crimping tool
- Volt meter/test light
- Crimp connections
- 16 -18 gauge wire for power connections
- 20 gauge speaker wire
- Four M3x20mm (3/32 x 0.75") screws

## Disconnecting the Battery

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

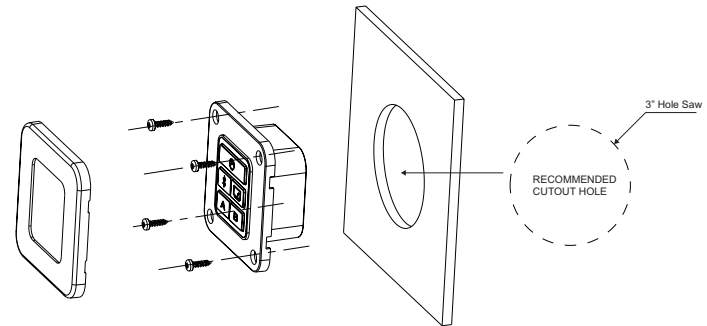
## Selecting the Mounting Location

Select a mounting location, taking care to avoid the following:

- Places exposed to heat-radiating appliances such as electric heaters
- Adjacent to other equipment that radiates heat
- Poorly-ventilated or dusty places
- Moist or humid locations
- Choose a mounting location on the wall panel that will allow room behind to run the wall plate cables to the power source.

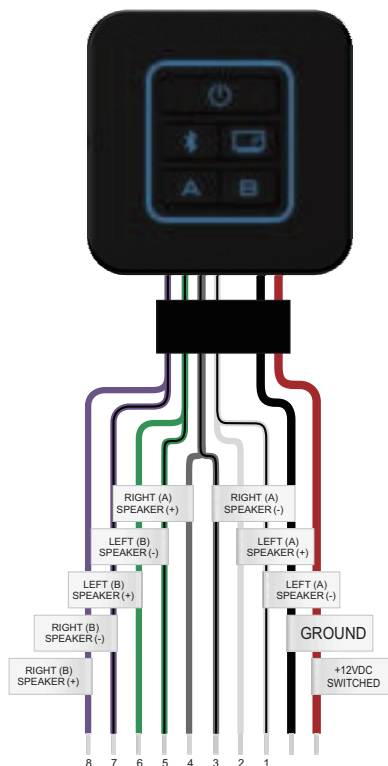
## Mounting the Wall Plate

- Use the mounting hole diagram to measure and cut a mounting hole
- Route power and speakers through the hole and connect
- Check and ensure correct operation
- Mounting the unit using four M3x20mm (3/32 x 0.75") screws
- Attached trim ring



# WIRING

The wiring diagram depicts all the wiring connections required for proper operation of the unit.

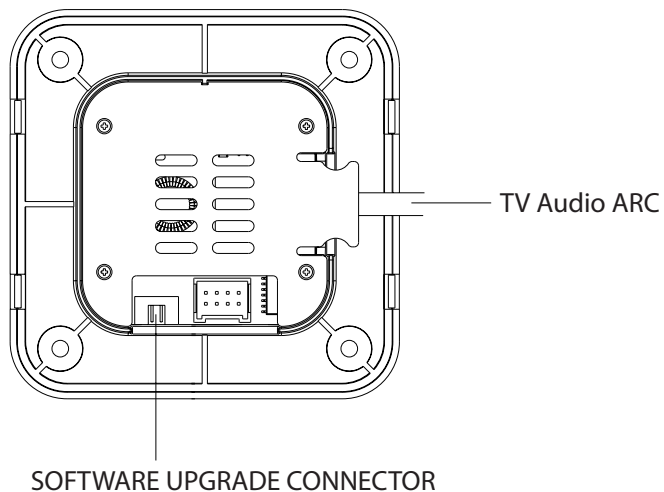


WIRE COLOR	DESCRIPTION
WHITE/BLACK	LEFT (A) SPEAKER(-)
WHITE	LEFT (A) SPEAKER(+)
GRAY/BLACK	RIGHT (A) SPEAKER(-)
GRAY	RIGHT (A) SPEAKER(+)
GREEN/BLACK	LEFT (B) SPEAKER(-)
GREEN	LEFT (B) SPEAKER(+)
VIOLET/BLACK	RIGHT (B) SPEAKER(-)
VIOLET	RIGHT (B) SPEAKER(+)
RED	+12VDC SWITCHED
BLACK	GROUND

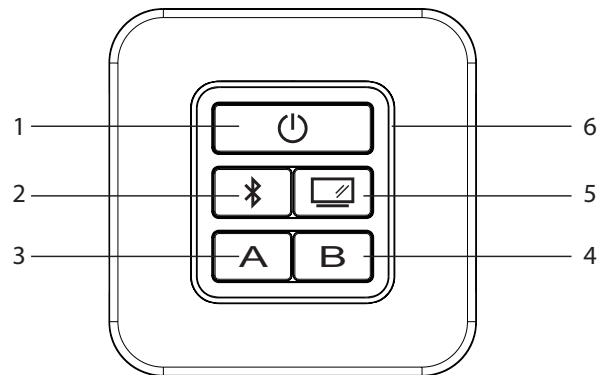
**WARNING:** Wiring harness comes with stripped and tinned leads to aid in the installation process. Any unused speaker wires must have their exposed ends cut off or insulated individually.

## CONNECTIONS


The wiring diagram depicts all the wiring connections required for proper operation of the unit.




## BASIC OPERATION



### Power

Press the  **Power** button (1) to turn the unit on. The unit will resume at the last mode (BT or TV Audio)

Press the  **Power** button (1) to enter standby mode.

## Zones Speaker Output

The two speaker output buttons on the wall plate control the speaker zones. Press the Zone **A** button (3) or Zone **B** button (4) to turn the corresponding speaker zone on or off.

## RESET

Press and hold the Zone **A** button (3) and Zone **B** button (4) for 10 seconds to factory default settings.

## BLUETOOTH OPERATION

The BTWP2 includes built-in Bluetooth technology that allows you to connect this wall plate to Bluetooth devices for streaming audio playback.

### Bluetooth Mode

Press the **Bluetooth** button (2) to select Bluetooth mode, unit will audibly prompt "**Bluetooth Mode**".

### Pairing a Bluetooth Device

Press and hold the **Bluetooth** button (2) for 3 seconds to start Bluetooth pairing process, the illumination of the **Bluetooth** button (2) will start blinking. The BTWP2 will be available for pairing for a duration of 120 seconds.

Bluetooth name "**Bluetooth RV 1**" will display in your mobile device settings.

In your mobile device, select "**Bluetooth RV 1**" to connect. Once the Bluetooth device successfully connects, the BTWP2 will audibly prompt "Bluetooth connected".

### Bluetooth Play/Pause

During playback, press the **Bluetooth** button (2) to pause the Bluetooth audio playback. The BTWP2 will audibly prompt "Pause" and the border light (6) illumination will blink. Press the **Bluetooth** button (2) again to resume playback. The BTWP2 will audibly prompt "Play".

If you change to another mode, the mobile device audio will pause. Press the **Bluetooth** button (2) to return to Bluetooth mode and resume mobile phone audio playback.



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***NOTE: If a Bluetooth device is disconnected due to the power being turned off or if the device is disconnected inadvertently, the unit will automatically search for the matching BT mobile phone when the power is restored.***

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## **Bluetooth Device Name Change**

Press and hold the **Bluetooth** button (2) and TV Button (5) simultaneously for 3 seconds, two audible “Beep” sounds and BTWP2 border light flash. After the audible prompt of the current source mode, it indicates the Bluetooth device name has been changed successfully.

- **One “Beep” sound:** The Bluetooth device name will be changed to “Bluetooth RV 1”.
- **Two “Beep” sound:** The Bluetooth device name will be changed to “Bluetooth RV 2”.
- **Three “Beep” sound:** The Bluetooth device name will be changed to “Bluetooth RV 3”.

## **TV AUDIO OPERATION**

Connect a TV connection cable from JENSEN TV with ARC functionality to BTWP2 wall plate. If the set up and operation is correct, the TV audio will come out from the speaker of the head unit after switching to TV Audio mode.

### **TV Audio Mode**

Press the **TV** button (5) to select TV Audio mode, unit will audibly prompt “TV Audio”.

### **TV Audio Mute**

During TV audio playback, press the **TV** button (5) to mute the audio output in TV audio mode. The BTWP2 will audibly prompt “TV Audio Mute” and the border light (6) illumination will blink. Press the **TV** button (5) again to restore the TV audio, the BTWP2 will audibly prompt “TV Audio Play”.

## **CARE AND MAINTENANCE**

Keep the product dry. If it does get wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Keep the product away from dust and dirt, which can cause premature wear of parts.

Handle the product gently and carefully. Dropping it can damage circuit boards and cases, and can cause the product to work improperly.

Wipe the product with a dampened cloth occasionally to keep it looking new.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the product.

Use and store the product only in normal temperature environments. High temperature can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.

### **Ignition**

The most common source of noise in reception is the ignition system. This is a result of the radio being placed close to the ignition system (engine). This type of noise can be easily detected because it will vary in intensity of pitch with the speed of the engine.

Usually, the ignition noise can be suppressed considerably by using a radio suppression type high voltage ignition wire and suppressor resistor in the ignition system. (Most vessels employ this wire and resistor but it may be necessary to check them for correct operation.) Another method of suppression is the use of additional noise suppressors. These can be obtained from most CB/A radio or electronic supply shops.

## FCC Notice

**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.

**WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complied with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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**NOTE:** *The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.*

**NOTE:** *This device complies with Part 15 of the FCC rules. Operation is subjected 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.*

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## Troubleshooting

SYMPTOM	SOLUTION
Wall plate will not turn ON	Try the reset button by press the "A" & "B" buttons simultaneously for 10 seconds.
	Check +12V on accessory wire to wall plate (RED wire).
	Check Ground connection.
Wall plate turn ON, but no sound	Check the mute controls are set correctly(See owner's manual).
	Try the reset button by press the "A" & "B" buttons simultaneously for 10 seconds.
	Verify proper speaker zone selections.
	Verify proper speaker connections.
Bluetooth device will not connect/pair	Check for shorts or open circuits on speaker wires.
	Please ensure the wall plate is in Bluetooth pairing process, the Bluetooth button illumination is blinking.
Loss audio from TV audio	On your smart device, turn the Bluetooth off and on and try again.
	Please ensure audio format on your TV is set to "PCM".
	Try the reset button by press the "A" & "B" buttons simultaneously for 10 seconds.

# SPECIFICATIONS

## Amplifier

Power .....	12VDC
Max Current.....	5A
RMS Audio Output.....	10W x 4 @ 4-Ohms
Max Audio Output .....	15W x 4 @ 4-Ohms
Freq. Response .....	20Hz – 20KHz

## General

Frequency Band(s) (For Bluetooth) .....	2.4GHz
Maximum radio-frequency power transmitted (for Bluetooth) .....	4dBm
Power Supply Requirements.....	DC 12 Volts, Negative Ground
Operating Voltage .....	10-16 VDC
Idle/Standby Current.....	< 50mA
Overall Dimensions .....	88.9mm (W) x 36.7mm (D) x 88.9mm (H)
Mounting Dimensions.....	60mm (W) x 27.5mm (D) x 60mm (H)
Weight .....	0.14 KG



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