



MRB4

WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY



OWNER'S MANUAL

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Button Controls



Home Screen Display Icons



Tuner Display Icons



GENERAL SETTINGS

1. Press [ / SRC] to turn on the radio.
2. Press **MENU** to display SOURCE settings.
3. Turn Volume knob to rotate to Settings.
4. Press Volume knob to select.

MAIN SETTINGS

Beep: Turn the key touch tone on or off.

1. Use volume knob to toggle ON or OFF.
2. Push volume knob to select.

Tuner Region: Select tuner region.

1. Use volume knob to toggle the region.
2. Push volume knob to select.
 - N. America
 - S. America
 - Eur/Rus/ Asia
 - Japan
 - M. East
 - Australia

Display Settings: Night dims the display to 25% brightness.

1. Use volume knob to toggle Day or Night.
2. Press volume knob to select.

Input Voltage: Display the supply voltage on the upper right corner of the screen.

1. Use volume knob to toggle ON or OFF.
2. Push volume knob to select.

Press **MENU** to go back to the previous screen or << / >> to exit to home screen.

AUDIO SETTINGS

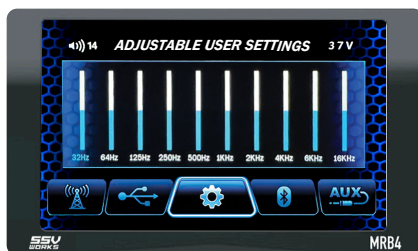
Fader: Adjusts front and rear output.

- Use volume knob to adjust {F1 - F10} and {R1 - R10}.

Balance: Adjusts left and right speaker output.

EQ: Adjust EQ setting [Preset/Custom].

- Preset
 - Off
 - Rock
 - Classic
 - Acoustic
 - Dance
 - Electric
 - Hip-Hop
 - Custom
- Custom - User adjustable 10 band EQ.



➤ **Crossover:** User selectable speaker crossover frequency.

- Front/Rear:
 - Frequency: APF, 40Hz to 15kHz
 - Slope: -6dB/oct to -24dB/oct
 - Gain: 0dB to -5dB
- Sub:
 - Frequency: APF, 60Hz to 160Hz
 - Slope: -6dB/oct to -24dB/oct
 - Gain: 0dB to -5dB

➤ **Internal Amplifier:** Turn internal amplifier ON or OFF.

1. Use volume knob to toggle ON or OFF.
2. Push volume knob to select.

Press **MENU** to go back to the previous screen or << / >> to exit to home screen.

➤ **Bluetooth Settings:** Discoverable: Enable or Disable Bluetooth

1. Use volume knob to toggle Enable or Disable.
2. Press volume knob to select.
 - Device Name: Displays Bluetooth device name.

➤ **About:** Displays MRB4 Radio Firmware version.

OPERATION

➤ **Power:**

1. Press [ /SRC] button to turn on the radio.
2. Press and hold to turn off.

➤ **Select a Source:**

1. Press [ /SRC] to toggle between sources or press the **MENU** button and turn the volume knob to rotate the sources.
2. Press knob to select.
3. Tuner: FM/AM/WB.
4. Aux: External auxiliary audio input.
5. Bluetooth: Plays Bluetooth audio player.
6. USB: Plays files on a USB or iPhone.



Volume:

1. Turn volume knob.
2. Press knob to select which volume to adjust, Front, Rear, Sub (Will be highlighted blue). [Figure A]
3. Press knob again and slide bar will turn dark blue. [Figure B]
4. Turn volume knob to adjust volume level.
5. Press knob to save volume level. Make all necessary volume adjustments.
6. Press knob again until Front, Rear, Sub texts are all white. Volume knob will go back to its normal function. [Figure C]



Figure A



Figure B



Figure C

Tuner:

1. Press [ /SRC] button and select FM/AM/WB or press **MENU** button and use volume knob to rotate sources to Tuner. Press volume knob to select.
2. Use << / >> to find stations.
3. Press volume knob to Save as Preset or turn ON/OFF RDS.
4. Save as Preset (1 to 18). Select preset number to save in by turning volume knob. Press volume knob to save station to the preset number.



Display using [ /SRC] button option.



Display using MENU button option.

Save as
Preset



RDS



Bluetooth:

1. Press [ /SRC] and select Bluetooth or press **MENU** button.
2. Use the volume knob to rotate sources to Bluetooth.
3. Press volume knob to select.

Press  to Play/pause.

<< / >> to track up and down.



Display using [ /SRC] button option.



Display using MENU button option.

Pairing Phone to Bluetooth:

1. Turn on the Bluetooth function on your phone.
2. Search for "SSV MRB4" from list of Bluetooth devices on your phone.
3. To disconnect or reconnect a previously paired phone, press the volume knob and select "Connect" or "Disconnect".

Bluetooth Screen and Controls:



USB:

- Use a USB extension cable (not included) and route the female USB port to an accessible location in the vehicle.
- While in any source, plugging in a USB thumb drive will automatically change the source to USB.
- To change sources, use the [ /SRC] or **MENU** option.

USB Playback Operations:

Press ►|| to Play/pause.

<< / >> to track up and down.

1. Press **FAV** to display folder and file list.
2. Use volume knob to scroll through the list.
3. Press knob to select file.



USB Playback Settings:

1. Press volume knob for Playback Settings.

- Repeat:

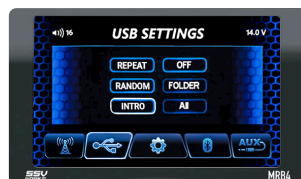
- ONE
- FOLDER
- ALL

- Random:

- OFF
- FOLDER
- ALL

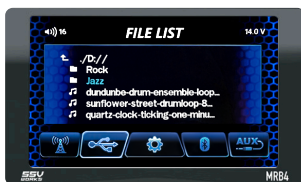
- Intro:

- OFF
- FOLDER
- ALL



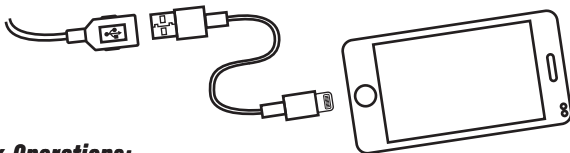
USB File List:

1. Press the **FAV** button to display USB file list.
2. Use volume knob to scroll through the file list.
3. Press knob to select a file.
4. Use the << / >> buttons for Next and Previous files.
5. Press the **MENU** button to go back to the root folder.
6. Press knob to select a folder.



iPhone Playback Operations:

- Connect the factory iPhone cable (USB A to Lightning or USB A to USB C) to the USB extension cable (not included).
- While in any source, plugging in an iPhone will automatically change the source to USB.
- To change sources, use the [**⏻** /SRC] or MENU option.



iPhone Playback Operations:

Press **▶||** to Play/pause.

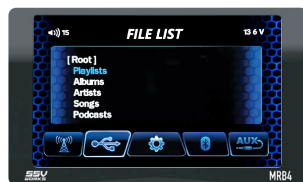
<< / >> to track up and down.



iPhone Media:

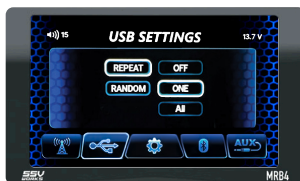
1. Press **FAV** button to access iPhone media content.
2. Use the volume knob to scroll through the contents.
3. Press the knob to select.

- Playlists
- Albums
- Artists
- Songs
- Podcasts
- Genres
- Composers
- Audiobooks



iPhone Playback Settings:

- Press Volume knob for Playback Settings.
- Repeat:
 - OFF
 - ONE
 - ALL
- Random:
 - OFF
 - ON



AUX:

1. Plug in external audio player to the Aux input connector behind the radio.
2. Press [/SRC] button and select AUX or press **MENU** button and use volume knob to rotate sources to AUX.
3. Press volume knob to select.

Press to mute and unmute audio.



RGB:

1. Press **MENU** button and use volume knob to rotate to RGB Setting.
2. Press volume knob to select.

Rotate the volume knob to navigate through the options and press knob to select.

• **Mode**

- Solid
- Pulse
- Color Change
- Glow

• **Color**

- White, Yellow, Orange, Red, Rose, Magenta, Violet, Blue, Violet, Blue, Azure, Cyan, Spring Green, Green, Chartreuse

• **Speed**

- 1 - 10

• **Brightness**

- 1 - 10

• **Favorites**

- Favorite 1 to 5 (Rotate the volume knob to select which **FAV** number to save to.
- Press and hold volume knob to save to Favorites.



Camera:

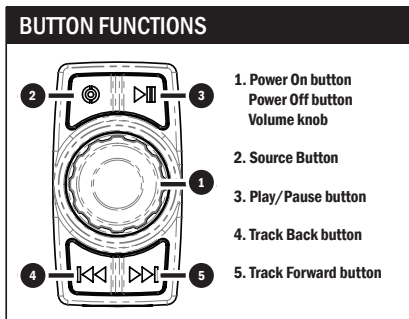
- The MRB4 provides front and rear camera inputs.
- Tap the reverse trigger wire to the reverse light (+) to activate the rear camera.
- The rear camera is displayed on the screen when shifting the gear to the reverse position.

Press  button to force view the front or rear cameras at any time.



REMOTE CONTROL

An optional wired remote controller, SSV Works MRB2CR (sold separately), can be used to operate the unit remotely.



1. Press the Volume knob to turn On radio. Press and hold for 2 seconds to turn Off.
2. Press button to select sources, FM/AM/WB/Bluetooth/USB/AUX.
3. Press button to Play/Pause music while in Bluetooth and USB mode.
4. Press button to mute audio while in Tuner or AUX mode.
5. Press button to track down while in Bluetooth or USB mode and to search back while in Tuner mode.
6. Press button to track up while in Bluetooth or USB mode and to search forward while in Tuner mode.

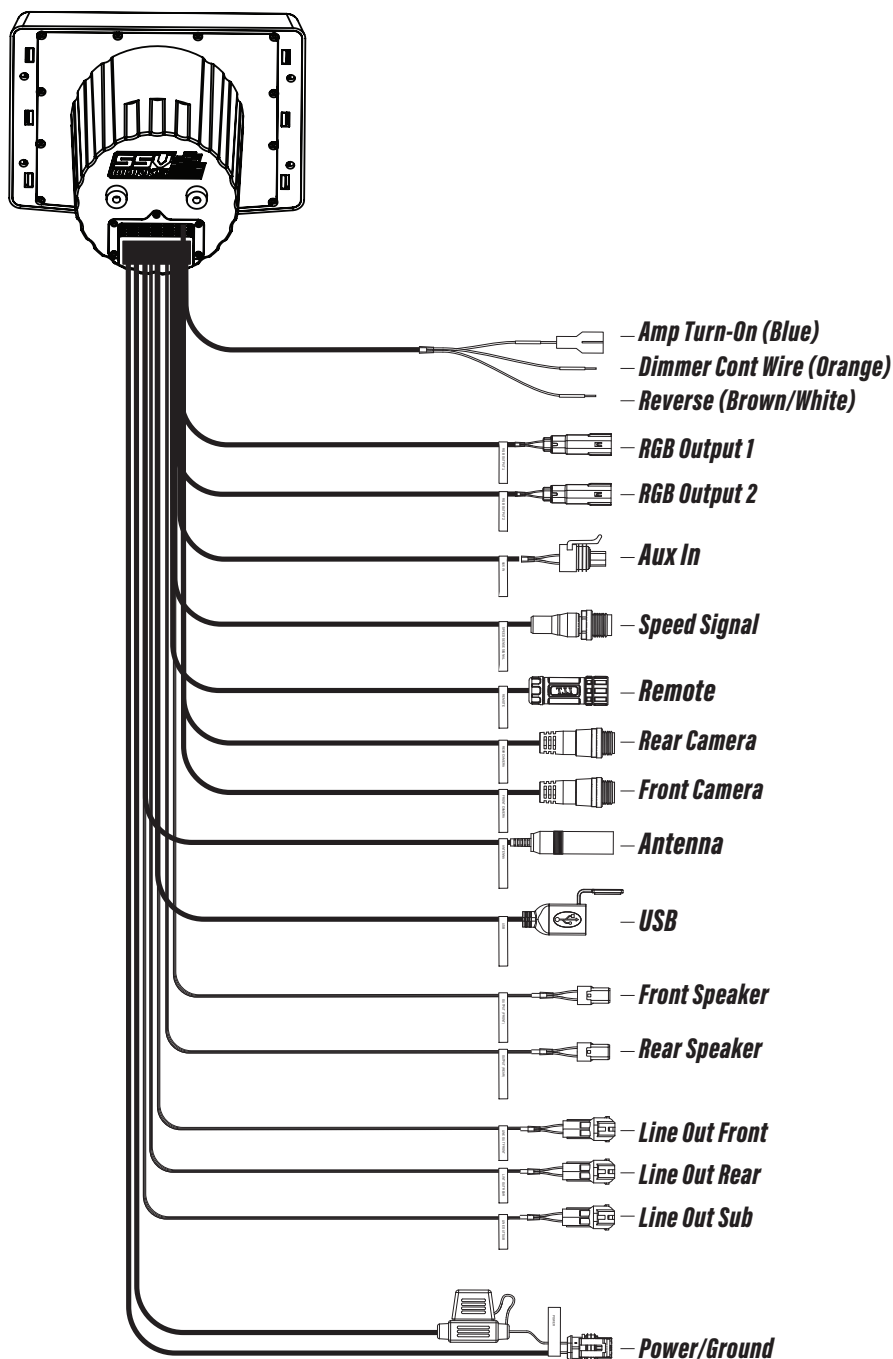
CAMERA

The MRB4 features front and rear camera inputs. The SSV Works MRB4-CAM, available separately, is an AHD camera with a resolution of up to 720P, making it an ideal match for the MRB4 radio. It includes a water-resistant, 4-pin aviation connector, ensuring a reliable connection even in the most challenging conditions.

Utilize the MRB4-CAM as a reverse camera by tapping the reverse camera trigger wire on the MRB4 radio to the reverse light (+). Add a second MRB4-CAM to use as a front-facing camera. Press the button on the MRB4 radio to view the front or rear camera at any time.



WIRING DIAGRAM



SPECIFICATIONS

Display:

- 3.97" HD TFT Display (800x480) with 700 Nit

Waterproof:

- IP66 (front)
- IPX5 (rear)

Sources:

- Tuner:
 - FM: 87.5 Mhz to 108.0 Mhz [with RDS] (S/N: 30dB)
 - AM: 531 Khz to 1710 Khz (S/N: 20 dB)
 - WB: 162.40 Mhz to 162.55 Mhz (S/N: 20 dB)
- USB:
 - Version: USB 2.0 Specification (up to 480 Mbps)
 - ID3 Tag-Embedded Album Art Display
 - Maximum Power Supply: DC 5V, 2.1A
 - Audio Decoder: MP3/ WMA/ AAC/ FLAC
- MFI:
 - iAP 2: Made for iPhone/Made for iPad®
- BT Audio Streaming:
 - Version: Bluetooth 5.0
 - Max Communication range: 30 ft line of sight
 - Profile: A2DP / AVRCP
- Aux Input: (3-pin common ground input)
 - 3-Pin to RCA adapter included

RGB Control:

- 2 Outputs (4A each)

Camera Input:

- 720P AHD
- 12v Trigger wire and forced)

Line Output:

- 4V Preamp Output
- Front, Rear, Subwoofer

Equalizer:

- Band: 10 Band (32Hz to 16KHz)
- Preset/Custom EQ settings

Audio:

- Peak Power: 25W x 4 @ 4Ω | 50W x 4 @ 2Ω

Wired Remote Compatible:

- Requires SSV Works Rocker Controller, MRB2CR (sold separately)

Operating Voltage:

- 12V DC, Negative Ground

TROUBLESHOOTING

General:

- No sound coming out of speakers:
 - Adjust volume level.
 - Check speaker connections.
 - Check if audio is muted on the radio.
- Sound is distorted:
 - Adjust volume level.
 - Check speaker connections.
 - Check if audio is muted on the radio.

Bluetooth:

- Phone does not detect the unit:
 - Make sure the MRB4 is set to "Discoverable" in the Bluetooth settings.
 - Turn OFF, then ON Bluetooth on the device.
- The unit does not pair with the phone:
 - Turn OFF, then turn ON the phone.
 - Disconnect the Bluetooth connection from the Phone and reconnect it.

Tuner:

- There is static noise while listening to radio:
 - Make sure antenna is plugged in firmly.
 - Make sure the radio station is tuned in to the correct frequency.
 - Extend the antenna mast (if applicable).

Copyrights:

The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by SSV Works is under license. Other trademarks and trade names are the property of their respective owners.

Use of the Made for Apple badge means that an accessory has been certified by the developer to meet Apple performance standards. Apple iPhone and iPad® are trademarks of Apple, Inc., Registered in the U.S. and other countries.

FCC RF exposure statement:

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance between 20cm the radiator your body.

IC Caution:

Radio Standards Specification RSS-Gen, issue 5.

This device contains licence-exempt transmitters/receivers that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

RF exposure statement:

The equipment complies with IC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

EU:

This device in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out. This restriction will be applied to all Member States of European Union. The device complies with RF specifications when the device used at 20cm from your body.

Declaration of Conformity:

Hereby, SSV Works, Inc. declares that the radio equipment type, MRB4, is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://ssvworks.com/pages/mrb4-eu-doc>

Bluetooth:

Transmitter power: 5 dBm (for EU/UK only)

Frequency Range: 2402-2480MHz

UK:

The device is in compliance with the essential requirements and other relevant provisions of the UK Radio Equipment Regulations SI 2017:1206 (as amended).

1. The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.
2. The device complies with RF specifications when the device used at 20cm from your body.

Declaration of Conformity:

Hereby, SSV Works declares that the MRB4 Media Receiver is in compliance with the following Regulations: Radio Equipment Regulations 2017, Electrical Equipment (Safety Regulations 2016 and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electrical Equipment 2012. The Full text of the UK declaration of conformity is available at the following internet address:

1. FCC-HSED

This device complies with Part 15 of the FCC Rules [and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s)].

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 of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et

2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3. 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.

