

Owner's Manual
Mode d'emploi et manuel
Manual de instrucciones

MW4

MARINE BLACK BOX SOURCE UNIT WITH J1939

CLARION PRODUCT REGISTRATION INFORMATION

For USA and Canada only
www.clarion.com

Dear Customer:

Congratulations on your purchase of a Clarion Marine Electronic Product. We are confident that you will enjoy your Clarion experience.

There are many benefits to registering your product. We invite you to visit our website at www.clarion.com to register your Clarion product.

We have made product registration simple with our easy to use website. The registration form is short and easy to complete. Once you are registered, we can keep you informed of important product information.

Register at www.clarion.com - It is easy to keep your Clarion product up to date.

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1. FEATURES

- SiriusXM-Ready™ (SiriusXM Connect Tuner and Subscription sold separately)
- Bluetooth (HFP, A2DP, Aptx, AVRCP 1.4, PBAP, SSP, SPP)
- Made for iPod® Made for iPhone®
- USB iPod/iPhone Audio and Video Compatible (CCA750 Required for iPod Video)
- 2-Zone (Independent Zone Source Control)
- SVC (Source Volume Control), Independent Volume Control for each source
- Two Audio/Video RCA Inputs
- Video Output
- Dedicated Rear Camera RCA Input
- Global AM/FM Tuner with RDS
- Weather Band Radio
- Water Resistant Chassis and Display Controller
- Dual 2.1A USB Ports
- OEM Steering Wheel Interface Ready
- Clarion Wired Remote Ready (MW1/MW2/MW4)
- 50W x 4 Built-In MOSFET Amplifier

2. PRECAUTIONS**WARNING**

* For your safety, while boating, keep the volume to a level at which external sounds can be heard.

1. This unit has precision parts inside. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the parts.
2. 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 consult the dealer or a experienced radio/TV technician for help.

INFORMATION FOR USERS:
CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND MAY VIOLATE FCC REGULATIONS.

MANUFACTURED	CE MODEL	MW4	Clarion
MANUFACTURER	12V (+)GROUND	USA: 530-1710kHz, FM87.5-107.9MHz EUROPE: AM531-1620kHz, FM87.5-108.0MHz AUSTRALIA: AM531-1620kHz, FM87.5-108.0MHz	
EYS	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.		
SERIAL NO.	CLARION CORPORATION OF AMERICA 8200 GATEWAY DRIVE, CYPRESS, CA 90630, USA		
ISO 8846 • SAE J1171 MARINE IGNITION PROTECTED		MADE IN CHINA	

3. CAUTIONS ON HANDLING

- Protect product from water. Do not submerge or expose the product directly to water, as this can cause electrical shorts, fire or other damages.
- Protect from high temperature. Exposure to direct sunlight for an extended period of time can produce very high temperature in your vessel. Cool down the interior before use.

4. DISPLAY CONTROLLER BUTTONS



Volume Knob

Functions:

Rotate Volume Knob = Adjust Volume Level (Play Screens).

Press in on Volume Knob = Mute (Play Screens).

Rotate Volume Knob = Scroll Through Options (Menus).

Press in on Volume Knob = Select/Enter (Menu Options).

Options Arrow

This double sided arrow will only appear when additional options are available.



About the registered marks, etc.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

Sirius, XM and all related marks and logos are registered trademarks of Sirius XM Radio Inc. All Rights reserved.

Name of Buttons and their Functions

Note:

Be sure to read this chapter while referring to the diagram in chapter "4. DISPLAY CONTROLLER BUTTONS"

[Power] Power Button

- Press and release button to turn ON.
- Press and Hold for Three Seconds to turn OFF.

Volume Knob

- Rotate Volume Knob Clockwise to increase Volume.
- Rotate Volume Knob Counter Clockwise to Decrease volume.

Mute

- Press In and Release Volume Knob to Mute and Rotate the Volume Knob to Un-Mute the Audio.

[SRC] Source Button

- Press **SRC** button to display the Main Menu.
- Use Volume Knob to Scroll through Source Options, then Press In and Release Volume Knob to Select Source.

[MENU] Menu Button

- Press to access additional options.
- Radio (AM/FM/WB/LO/DX).
- SiriusXM (Search Functions, Direct, etc.).
- iPod (Audio, Video Menu options, Search, Playlists, Artists, Songs, Genre, etc.).
- USB (Folder, Song, Repeat, etc.).
- Bluetooth (HFP-ON/OFF, Pairing, etc.).

[AUDIO] Audio Button

- Press to access Audio adjustment settings.
- Use Volume Knob to adjust by rotating Clockwise or Counter-Clockwise, then Press in and release Volume Knob to save Adjusted setting.

- Treble/Mid/Bass (12kHz/1k/50Hz).
Adjust Levels from "-10" to "+10".

- EQ
Adjust Frequency for each of the 5-Bands.

- Balance/Fader
Adjust sound balance for Left and Right.
Adjust sound fader for Front and Rear.

- Subwoofer
Subwoofer Volume from "-10" to "+10".
Subwoofer Frequency (50/75/100/THROUGH).
Subwoofer Phase (Normal and Reverse).

[AUDIO] Audio Button

- 2-Zone
Adjust volume level for Zone 1, Zone 2 and Both Zones.
- SVC (Source Volume Control)
Adjust volume level for each source independently
- Radio
- iPod
- Phone
- SiriusXM
- Bluetooth Audio
- USB
- AUX

[DISP] Display Button

- Press to access Display adjustment settings
- Clock
 - ON = Large Clock will appear After 25 seconds of no action
 - Change Clock Font Color (White, Yellow, Red and Reverse)
 - OFF = Large Clock will Not appear after 25 Seconds of no action
 - Default = ON
- Status Bar
 - Change Status Bar to appear at Top or Bottom of Screen
 - Default = Top
- Mode
 - Change Display preset color settings from:
 - Day Mode = Brighter Colors
 - Night Mode = Darker Colors
 - Default = Day Mode
- Brightness
 - Adjust display brightness from "-10" to "+10"

[FAV] Favorites Button

- Press to access saved stations/channels
- Save up to 50 favorites
 - SiriusXM
 - Radio (AM/FM/Weather Band)
 - Pandora
 - Phone Contact
 - Paired and Connected Phone
 - Contacts have been synced
 - You can now save contact as a favorite
Example: Home, Work, etc.

5. OPERATIONS

Basic Operations

CAUTION

When the unit is turned ON, and the volume has been increased to the maximum level May cause damage to your hearing.


Please be aware and cautious of the volume level at all times.

Turning ON and OFF the System

Note:


- Start the engine before using this unit.
- Be careful about using this unit without the engine running. If used for long periods of time without the engine running to charge the batteries, you may not be able to start the engine and this can reduce the life and performance of the batteries. A Warning will appear when voltage is 10V or below.

ON

1. Start the engine.
2. Press and Release the Power Button. 
3. The Blue LED trim around the Volume Knob will light up and the MW4 Display Controller. - Clarion Splash Screen (10 Seconds). - Viewing Video Disclaimer (5 Seconds).



OFF

1. Press and Hold the Power Button for 3 sec. 
2. The Blue LED trim ring around the Volume Knob will turn OFF.
 - System in Powering Down Screen (5 Seconds).
 - Clarion Splash Screen (10 Seconds).



Selecting a Source

1. Press the [SRC] button to display the Main Menu Screen.
 - * External add-on accessories will be required in order to use that source.
 - SiriusXM requires a SiriusXM Connect Tuner and Subscription (sold separately).
 - Pandora requires a iPod or iPhone to be connected to the MW4.
 - CCA750 is required for iPod Video Playback.
 - OEM Steering Wheel Interface Module is required for the steering wheel buttons to operate the MW4 audio features.
2. Use the Volume Knob to scroll through the source carousel.
3. Press in on the Volume Knob to select the source displayed in the middle of the source Carousel.

Adjusting the volume

1. Rotate the Volume Knob Clockwise to increase the volume level.
2. Rotate the Volume Knob Counter-Clockwise to decrease the volume level.

CAUTION

* For your safety, while boating, keep the volume to a level at which external sounds can be heard.

Name of Buttons and their Functions

Note:

Be sure to read this chapter while referring to the diagram in chapter 4 "DISPLAY CONTROLLER BUTTONS"



[◀ SEEK] Seek Back Button

- Press and release button to go back to previous song.
- Press and Hold for Three Seconds to scan back through song, release and song will continue playing.

[SEEK ▶] Seek Forward Button

- Press and release button to advance to next song.
- Press and Hold for Three Seconds to scan through song, release and song will continue playing.

[▶||] Play / Pause Button

- Press to PAUSE current song.
- When track is PAUSED, press again to continue playing current song (iPod, Bluetooth Audio, USB, and Pandora).

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen.
- Press to backwards in multiple Menu Screens.
- Press to return to current source play screen from Menu or Settings Screen.

Radio (AM/FM/Weather Band) Operation



[◀ SEEK] Seek Back Button

- Press and release button to tune down in frequency step by step.
- Press and Hold for Three Seconds to scan back to the previous strongest station frequency.

[SEEK ▶] Seek Forward Button

- Press and release button to tune up in the frequency step by step.
- Press and Hold for Three Seconds to scan to the next strongest station frequency.

[MENU] Menu Button

- Press to select AM, FM, Weather Band, Local (LO) or Distance (DX).
- Use the volume knob to scroll through options.
- Press in on the volume knob to select option in the middle of the carousel.
 - AM (Amplitude Modulation).
 - FM (Frequency Modulation).
 - Weather Band (NOAA - National Oceanic and Atmospheric Administration).
 - Local (LO).
 - Distance (DX).
- Press the Region Setting option to select the Region.
- Now a pop up window will appear providing 4 options.
 - Other Countries
 - USA
 - Europe
 - Australia

*Default=USA

- Use the volume knob to toggle between region options.
- Press in on the volume knob to select your choice.
- Press the BACK button to return to the previous Screen.

Note: Sirius XM will be available in source screen when the Tuner region is set to USA. Pandora will be available when Region is set to USA/Australia. Else those options will be greyed out in Source list.

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen.
- Press to backwards in multiple Menu Screens.
- Press to return to current source play screen from Menu or Settings Screen.

SiriusXM Satellite Radio Operation

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com.



Activating your SiriusXM Subscription

After installing your SiriusXM Connect Vehicle Tuner and antenna, power on your Clarion MW4 Marine Source Unit and select SiriusXM mode. You should be able to hear the SiriusXM preview channel on Channel 1. If you cannot hear the preview channels, please check the installation instructions to make sure your SiriusXM Connect tuner is properly installed.

After you can hear the Preview channel, tune to Channel 0 to find the Radio ID of your tuner. In addition, the Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner and its' packaging. You will need this number to activate your subscription. Write the number down for reference.

Note: the SiriusXM Radio ID does not include the letters I, O, S or F.

In the USA, you can activate online or by calling SiriusXM Listener care:

- Visit www.siriusxm.com/activatenow
- Call SiriusXM Listener Care at 1-866-635-2349

For Canadian Subscriptions, please contact:

- Visit www.siriusxm.ca/activatexm
- Call XM customer Care at 1-877-438-9677

As part of the activation process, the SiriusXM satellites will send an activation message to your tuner. When your radio detects that the tuner has received the activation message, your radio will display: "<<Subscription Updated>>". Once subscribed, you can tune to channels in your subscription plan. Note, the activation process usually takes 10 to 15 minutes, but may take up to an hour. Your radio will need to be powered on and receiving the SiriusXM signal to receive the activation message.

SiriusXM Satellite Radio Operation



[◀ SEEK] Seek Back Button

- Press and release button to tune to the previous channel.

[SEEK ▶] Seek Forward Button

- Press and release button to tune to the next channel.

[MENU] Menu Button

- Press to select Direct Channel, Parental Controls, Channel Search, Category Search and Tag.
- Use the volume knob to scroll through options.
- Press in on the volume knob to select option in the middle of the carousel.
 - Direct (Tune directly to channel by entering channel number).
 - Parental Controls (Lock Mature Content Channels, Manage Password).
 - Channel Search (Search by Number or Letters).
 - Category Search (Search by Number or Letter).
 - Tag (Tag song to iPod/iPhone to purchase from iTunes when device is connected to iTunes).
 - Settings.

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen
- Press to backwards in multiple Menu Screens
- Press to return to current source play screen from Menu or Settings Screen

SiriusXM Satellite Radio Operation



Direct Channel Tuning

1. From the SiriusXM Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Direct Icon is in the middle of the carousel.
3. Press in on the volume knob to select Direct.
4. Now a pop-up window will appear with a numbers for you to enter to directly tune to a SiriusXM Channel.
5. Use the volume knob to scroll through the numbers until the halo is around the number you want to select.
6. Press in on the volume knob to select that number.
7. If the channel you would like to tune to is a single digit number, then you can proceed to the bottom of the pop-up window and select OK. If you would like to tune to a two or three digit channel, then proceed by selecting the additional numbers needed.
8. Once all the channel numbers are displayed in the window, scroll down to the bottom of the pop-up window and select OK.
9. Now you will return to the SiriusXM Play Screen and tuned to the channel entered.



iTunes® Song Tagging

1. From the SiriusXM Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Tag Icon is in the middle of the carousel.
3. Press in on the volume knob to select Tag.
4. Now a pop-up window will appear asking you to confirm to Tag the current song to your iPod/iPhone.
5. You will also see how many songs you can Tag are left (50 total).
6. Select "YES" to Tag the song or "CANCEL" and the song will not be Tagged.
7. When Tag limit is reached, a pop-up showing "Memory Full, Connect iPod" will be displayed.
8. You will also see "Already Tagged" pop up on selecting YES option if the song is already tagged.
9. Once the song is Tagged, you will return to SiriusXM Play Screen.
 - *You will need to connect your iPod/iPhone to your home PC or MAC, launch iTunes to purchase the Tagged Songs that have been saved to your iPod/iPhone.
 - ** Tag icon will be greyed out when the song is not taggable or when the song has already been tagged.
 - *** Tag ID's will remain on the MW4 until the iPod/iPhone is connected. They will automatically be deleted after they are transferred.

SiriusXM Satellite Radio Operation



Channel List Tuning

1. From the SiriusXM Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Channels Icon is in the middle of the carousel.
3. Press in on the volume knob to select Channels.
4. The list of SiriusXM Channels will now appear.
5. You can use the volume knob to scroll up or down the list of SiriusXM Channels.
6. Once the Channel you would like to listen to is in the center middle of the screen,
7. Press in on the volume knob to tune to that Channel.
8. If you select a Channel with a "Lock", then this Channel can not be selected until the correct password is entered.
- * See Parental Controls for instructions to Set a Password, Change Password or to Lock Channels.
9. MW4 DC shall display SiriusXM Category list on Single press of BACK Button when it is displaying selected category channel



Find a Channel by Category

1. From the SiriusXM Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Categories Icon is in the middle of the carousel.
3. Press in on the volume knob to select Categories.
4. The list of SiriusXM Categories will now appear.
5. You can use the volume knob to scroll up or down the list of SiriusXM Categories.
6. Once the Category you would like is in the center middle of the screen,
7. Press in on the volume knob to select to that Category.
8. MW4 DC shall display SiriusXM Menu Options on Single press of **BACK Button** when it is displaying category list.
9. Once a Category is selected, list of channels from the selected Category will appear. Browse through the list of channels and select a Channel. Then it starts playing the selected Channel.
10. Press the **BACK Button** to go back to SiriusX category list when it is displaying selected category channel.

SiriusXM Satellite Radio Operation



Channel and Category Sort by ABC or 123

1. From the SiriusXM Play Screen, Press the **MENU Button**.
 2. Use the volume knob to scroll through options until the Channels/Categories Icon is in the middle of the carousel.
 3. Press in on the volume knob to select Channels/Categories.
 4. The list of SiriusXM Channels/Categories will now appear.
 5. Press the **MENU Button**.
 6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is sorted alphabetically
 - "123" is sorted by channel number.
 7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
 8. Press in on the volume knob to select "ABC".
 9. Now a pop-up window will appear with Letters in icons.
 10. Use the volume knob to scroll through the Letters until the Letter you want is in the middle of the carousel.
 11. Press in on the volume knob to select that Letter.
 12. You will now see a list of Channels/Category appear based on your letter or number selection. Browse through the list of channels/category and select a channel. Then it starts playing the channel. If there is no match found for the selected alphabet/number, then pop up saying the same will be displayed.
 13. Use the volume knob to scroll through the list of Channels.
 14. When the Channel you would like to tune to is in the middle of the screen.
 15. Press in on the volume knob to select that channel.
 16. Now you will return to the SiriusXM Play Screen and tuned to the channel entered.
- Note: In all search option (for all source option) , Searching is restricted to starting Alphabet/Number only.

SiriusXM Satellite Radio Operation

Parental Controls

1. From the SiriusXM Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Parental Controls Icon is in the middle of the carousel.
3. Press in on the volume knob to select Parental Controls.
4. Now a pop-up window will appear with two options to choose from: "Lock Mature Content Channels" or "Manage Password".
 - "Lock Mature Content Channels" locks the ability to tune to the "Mature Content" Channels.
 - "Manage Password" Provides the ability to Set a Password or to Change the Password to lock the Mature Content Channels.
 - The default passcode set for the Parental lock is 1111. This can be changed with the help of Manage Password.

Lock Mature Content Channels

1. Press in on the volume knob to select "Lock Mature Content Channels".
2. A pop-up window will now appear asking you if you want to turn Lock the Mature Content Channels feature "ON" or "OFF".
3. Select "ON" by pressing in on the volume knob, to turn this feature "ON".
4. Now you will be asked to enter in a 4-digit Lock Code to Lock the Mature Content Channels.
5. Using the volume knob, scroll through the numbers and Press in on the volume knob to select a 4-digit Lock Code.

* Write down the 4-digit Lock Code for future reference.

6. Now the SiriusXM Mature Content Channels are Lock and can not be listened to.

Unlock Mature Content Channels

1. Press in on the volume knob to select "Lock Mature Content Channels".
2. A pop-up window will now appear asking you if you want to turn Lock the Mature Content Channels feature "ON" or "OFF".
3. Select "OFF" by pressing in on the volume knob, to turn this feature "OFF".
4. Now you will be asked to enter in a 4-digit Lock Code to Unlock the Mature Content Channels.
5. Using the volume knob, scroll through the numbers and Press in on the volume knob to select your 4-digit Code.

Use the default passcode unless it is changed using Manage passcode. If the default passcode is changed using Manage passcode, then enter the new chnaged passcode.
6. Now the SiriusXM Mature Content Channels are Unlocked and can be listened to.

Manage Password

This setting will allow you to change your existing password to Lock Mature Content Channels.

1. From the SiriusXM Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Parental Controls Icon is in the middle of the carousel.
3. Press in on the volume knob to select Parental Controls
4. Now a pop-up window will appear with two options to choose from: "Lock Mature Content Channels" or "Manage Password".
 - "Lock Mature Content Channels" locks the ability to tune to the "Mature Content" Channels.
 - "Manage Password" Provides the ability to Set a Password or to Change the Password to lock the Mature Content Channels.
5. Select "Manage Password".
6. Enter in your Current Lock Code. For the first time, current lock code is same as default passcode.
7. Select Done when finished.
8. Enter in a New Lock Code.
9. Select Done when finished.
10. You will now see a confirmation window appear displaying the new lock code.

* Please remember this code. You will need it to listen to locked channels or to turn Off the Lock Mature Content Features.

iPod Audio Operation



[◀ SEEK] Seek Back Button

- Press and release button to go back to previous song.
- Press and Hold for Three Seconds to scan back through song, release and song will continue playing.

[SEEK ▶] Seek Forward Button

- Press and release button to advance to next song.
- Press and Hold for Three Seconds to scan through song, release and song will continue playing.

[▶||] Play / Pause Button

- Press to PAUSE current song.
- When track is PAUSED, press again to continue playing current song (iPod, Bluetooth Audio, USB, and Pandora).

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen.
- Press to backwards in multiple Menu Screens.
- Press to return to current source play screen from Menu or Settings Screen.

[MENU] Menu Button

Press to access additional options.

- Playlists (Search by "ABC" or "123").
- Songs (Search by "ABC" or "123").
- Artists (Search by "ABC" or "123").
- Genre (Search by "ABC" or "123").
- Composers (Search by "ABC" or "123").
- Podcasts (Search by "ABC" or "123").
- Simple Mode (ON or OFF) = Operation and Control directly from iPod/iPhone.
- Tag (Tag song to iPod/iPhone for purchase through iTunes).
- Repeat (Song, Playlist, All, Off).
- Shuffle (ON or OFF).

iPod Audio Operation



Playlists

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Playlists Icon is in the middle of the carousel.
3. Press in on the volume knob to select Playlists.
4. The list of your Playlists will now appear.
5. Use the volume knob to scroll through your Playlists.
6. Press in on the volume knob to select the Playlist that is in the middle of the screen.
7. You will now return to the iPod Play Screen and the first song in the Playlist will start playing.

Playlists Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Playlists Icon is in the middle of the carousel.
3. Press in on the volume knob to select Playlists.
4. The list of your Playlists will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. You will now see a list of Playlists.
13. Use the volume knob to scroll through the list of Playlists.
14. When the Playlists you would like is in the middle of the screen.
15. Press in on the volume knob to select that Playlist.
16. Once selected, you will see the list of tracks corresponding to selected Playlist. Track Starts playing when selected on a particular track. Browsing sequence should go as Playlist->Tracks. Search can be done in each level.
17. Now you will return to the iPod Play Screen and the first song in the Playlist will start playing.

iPod Audio Operation



Songs

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Songs Icon is in the middle of the carousel.
3. Press in on the volume knob to select Songs.
4. The list of your Songs will now appear.
5. Use the volume knob to scroll through your Songs.
6. Press in on the volume knob to select the Song that is in the middle of the screen.
7. You will now return to the iPod Play Screen and the song will start playing.

Songs Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Songs Icon is in the middle of the carousel.
3. Press in on the volume knob to select Songs.
4. The list of your Songs will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. You will now see a list of Songs.
13. Use the volume knob to scroll through the list of Songs.
14. When the Song you would like is in the middle of the screen.
15. Press in on the volume knob to select that Song.
16. Now you will return to the iPod Play Screen and the song will start playing.

iPod Audio Operation



Artists

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Artists Icon is in the middle of the carousel.
3. Press in on the volume knob to select Artists.
4. The list of Artists will now appear.
5. Use the volume knob to scroll through your Artists.
6. Press in on the volume knob to select the Artist that is in the middle of the screen.
7. You will now return to the iPod Play Screen and the first song from the Artist will start playing.

Artists Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Artists Icon is in the middle of the carousel.
3. Press in on the volume knob to select Artists.
4. The list of your Artists will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. You will now see a list of Artists.
13. Use the volume knob to scroll through the list of Artists.
14. When the Artist you would like is in the middle of the screen.
15. Press in on the volume knob to select that Artist.
16. Once Selected, You will see the list of Album corresponding to selected Artist. Tracks will be shown when an Album is selected and track starts playing when selected on a particular track. Browsing sequence should go through the different levels like Artist->Album->Tracks. Search can be done in each level.
17. Now you will return to the iPod Play Screen and the first song from the Artist will start playing.



Genre

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Genre Icon is in the middle of the carousel.
3. Press in on the volume knob to select Genre.
4. The list of music Genre will now appear.
5. Use the volume knob to scroll through the music Genre.
6. Press in on the volume knob to select the Genre that is in the middle of the screen.
7. You will now return to the iPod Play Screen and the first song from the Genre will start playing.

Genre Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Genre Icon is in the middle of the carousel.
3. Press in on the volume knob to select Genre.
4. The list of your music Genre will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. You will now see a list of Genre.
13. Use the volume knob to scroll through the list of Genre.
14. When the Genre you would like is in the middle of the screen.
15. Press in on the volume knob to select that Genre.
16. Once selected, You will see the list of Artist corresponding to the selected Genre. Then, When an artist is selected, corresponding Albums will be displayed. Tracks will be shown when an album is selected and track starts playing when selected on a particular track. Browsing sequence should go through the different levels like Genre->Artist->Album->Tracks. Tracks are the last levels. Search can be done in each level.
17. Now you will return to the iPod Play Screen and the first song from the Genre will start playing.

iPod Audio Operation



Composers

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Composers Icon is in the middle of the carousel.
3. Press in on the volume knob to select Composers.
4. The list of Composers will now appear.
5. Use the volume knob to scroll through your Composers.
6. Press in on the volume knob to select the Composer that is in the middle of the screen.
7. You will now return to the iPod Play Screen and the first song from the Composer will start playing.

Composers Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Composers Icon is in the middle of the carousel.
3. Press in on the volume knob to select Composers.
4. The list of your Composers will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. You will now see a list of Composers.
13. Use the volume knob to scroll through the list of Composers.
14. When the Composer you would like is in the middle of the screen.
15. Press in on the volume knob to select that Composer.
16. Once Selected, you will see the list of Album corresponding to selected composer. Tracks will be shown when an Album is selected and track starts playing when selected on a particular track. Browsing sequence should go through the different levels like Composer->Album->Tracks. Search can be done in each level.
17. Now you will return to the iPod Play Screen and the first song from the Composer will start playing.

iPod Audio Operation



Podcasts

1. From the iPod Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Podcasts Icon is in the middle of the carousel
3. Press in on the volume knob to select Podcasts
4. The list of downloaded Podcasts will now appear
5. Use the volume knob to scroll through the Podcasts
6. Press in on the volume knob to select the Podcast that is in the middle of the screen
7. You will now return to the iPod Play Screen and the Podcast will start playing

Podcasts Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Podcasts Icon is in the middle of the carousel
3. Press in on the volume knob to select Podcasts
4. The list of your downloaded Podcasts will now appear
5. Press the **MENU Button**
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123"
 - "ABC" is search by Letter
 - "123" is search by Number
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon
8. Press in on the volume knob to select "ABC" or "123"
9. Now a pop-up window will appear with Letters/Numbers in icons
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. You will now see a list of Podcasts starting with Alphabet/Letter
12. When the Podcast you would like is in the middle of the screen
13. Press in on the volume knob to select that Podcast
14. Once selected, You will see the list of tracks corresponding to selected Episode. Tracks start playing when selected on a particular track. Browsing sequence should go through the different levels like Episode->Tracks. Search can be done in each level.
15. Now you will return to the iPod Play Screen and the Podcast will start playing

iPod Audio Operation



Simple Mode

When this feature is turned ON, you will now be able to control the iPod/iPhone features directly from the iPod/iPhone.

Simple Mode ON

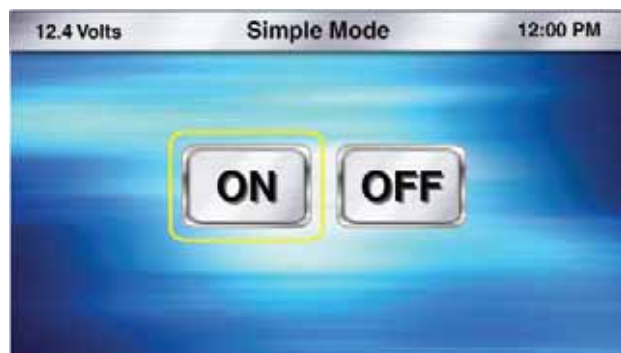
1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Simple Mode Icon is in the middle of the carousel.
3. Press in on the volume knob to select Simple Mode.
4. You can now select the option to turn Simple Mode "ON".
5. After you select "ON" you will now return to the iPod Play Screen.

* If you change your mind, and do not want to use the Simple Mode feature, press the Back Button to return to the iPod Menu Options.

Simple Mode OFF

Follow these steps to turn Simple Mode OFF if Simple Mode has been ON.

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Simple Mode Icon is in the middle of the carousel.
3. Press in on the volume knob to select Simple Mode.
4. You can now select the option to turn Simple Mode "OFF".
5. After you select "OFF" you will now return to the iPod Play Screen.



iPod Audio Operation



Repeat

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Repeat Icon is in the middle of the carousel.
3. Press in on the volume knob to select Repeat.
4. Now a pop-up window will appear with Repeat options:
 - Song (Repeats current song).
 - Playlist (Repeats songs in Playlist).
 - All (Repeats All songs).
 - Off (Turns OFF the Repeat Feature).
5. After your choice has been made, you will see the Repeat Icon appear on the iPod Play Screen.

Shuffle

1. From the iPod Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Shuffle Icon is in the middle of the carousel.
3. Press in on the volume knob to select Shuffle.
4. Now a pop-up window will appear with Shuffle options:
 - ON (Turns the Shuffle Feature ON).
 - OFF (Turns the Shuffle Feature OFF).
5. After your choice has been made, you will see the Shuffle Icon appear on the iPod Play Screen.

iPod Video Operation

[◀ SEEK] Seek Back Button

- Press and release button to go back to previous chapter.
- Press and Hold for Three Seconds to scan back through chapter, release and video will continue playing.

[SEEK ▶] Seek Forward Button

- Press and release button to advance to next chapter.
- Press and Hold for Three Seconds to scan through chapter, release and video will continue playing.

[▶||] Play / Pause Button

- Press to PAUSE the video.
- When track is PAUSED, press again to continue playing the video.

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen.
- Press to backwards in multiple Menu Screens.
- Press to return to current source play screen from Menu or Settings Screen.



[MENU] Menu Button (From iPod Video Play Screen)

Press to access additional options.

- Movies (Search by "ABC" or "123").
- TV Shows (Search by "ABC" or "123").
- Podcasts (Search by "ABC" or "123").



[MENU] Menu Button (While Video is Playing)

Press to access additional options.

- Menu (Subtitles ON and OFF).
- Top (Plays video from the beginning of the current chapter).
- Chapters (Search Chapters by "123").
- Repeat (Chapter, All and OFF).

iPod Video Operation

WARNING

VIEWING A VIDEO SIGNAL ON ANY DASH MOUNTED MONITOR WHILE IN MOTION IS PROHIBITED BY LAW.

iPod Video

1. From the iPod Audio Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the Video Icon is in the middle of the carousel.
3. Press in on the volume knob to select Video.
4. You will now switch to the iPod Video Play Screen.



Select Video

1. From the iPod Video Play Screen, Press the **MENU Button**.
2. You will now see the following options:
 - Music (Returns you back to the iPod Audio Play Screen and Leaves iPod Video).
 - Movies (Search by "ABC" or "123").
 - TV Shows (Search by "ABC" or "123").
 - Podcasts (Search by "ABC" or "123").
3. Use the volume knob to scroll through options

NOTE

IF YOU SEE A "AUDIO ONLY" SCREEN WHILE TRYING TO WATCH A MOVIE, PLEASE CHECK THE "VIDEO INTERLOCK" WIRE AND MAKE SURE IT IS CONNECTED.

VIDEO INTERLOCK
ON (GROUND), OFF (NO GROUND), ON (GROUND)

iPod Video Operation



Movies

1. Select Movies from the list of Menu Options from the iPod Video Play Screen.
2. You will now see the list of Movies that are on your iPod/iPhone.
3. Use the volume knob to scroll through the list of Movies.
4. When the movie you want to watch is in the middle of the screen.
5. Press in on the volume knob to select that movie.
6. The Movie will start playing.

Movies Search by ABC or 123

1. From the iPod Video Play Screen, Press the MENU Button.
2. Use the volume knob to scroll through options until the Movies Icon is in the middle of the carousel.
3. Press in on the volume knob to select Movies.
4. The list of your Movies will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. Continue selecting Letters/Numbers until you have entered the Name of the Movie.
13. Once the Name of the Movie is complete, scroll to the bottom of the pop-up window and select OK.
14. You will now see a list of Movies.
15. Use the volume knob to scroll through the list of Movies.
16. When the Movie you would like is in the middle of the screen.
17. Press in on the volume knob to select that Movie.
18. Now you will return to the iPod Video Play Screen and the Movie will start playing.

iPod Video Operation



TV Shows

1. Select TV Shows from the list of Menu Options from the iPod Video Play Screen.
2. You will now see the list of TV Shows that are on your iPod/iPhone.
3. Use the volume knob to scroll through the list of TV Shows.
4. When the TV Shows you want to watch is in the middle of the screen.
5. Press in on the volume knob to select that TV Show.
6. The TV Show will start playing.

TV Shows Search by ABC or 123

1. From the iPod Video Play Screen, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the TV Shows Icon is in the middle of the carousel.
3. Press in on the volume knob to select TV Shows.
4. The list of your TV Shows will now appear.
5. Press the **MENU Button**.
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123".
 - "ABC" is search by Letter.
 - "123" is search by Number.
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon.
8. Press in on the volume knob to select "ABC" or "123".
9. Now a pop-up window will appear with Letters/Numbers in icons.
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number.
12. Continue selecting Letters/Numbers until you have entered the Name of the TV Show.
13. Once the Name of the TV Show is complete, scroll to the bottom of the pop-up window and select OK.
14. You will now see a list of TV Shows.
15. Use the volume knob to scroll through the list of TV Shows.
16. When the TV Show you would like is in the middle of the screen.
17. Press in on the volume knob to select that TV Show.
18. Now you will return to the iPod Video Play Screen and the TV Show will start playing.

iPod Video Operation



Podcasts

1. From the iPod Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Podcasts Icon is in the middle of the carousel
3. Press in on the volume knob to select Podcasts
4. The list of downloaded Podcasts will now appear
5. Use the volume knob to scroll through the Podcasts
6. Press in on the volume knob to select the Podcast that is in the middle of the screen
7. You will now return to the iPod Play Screen and the Podcast will start playing

Podcasts Search by ABC or 123

1. From the iPod Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Podcasts Icon is in the middle of the carousel
3. Press in on the volume knob to select Podcasts
4. The list of your downloaded Podcasts will now appear
5. Press the **MENU Button**
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123"
 - "ABC" is search by Letter
 - "123" is search by Number
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon
8. Press in on the volume knob to select "ABC" or "123"
9. Now a pop-up window will appear with Letters/Numbers in icons
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. You will now see a list of Podcasts starting with Alphabet/Letter
12. When the Podcast you would like is in the middle of the screen
13. Press in on the volume knob to select that Podcast
14. Once selected, You will see the list of tracks corresponding to selected Episode. Tracks start playing when selected on a particular track. Browsing sequence should go through the different levels like Episode->Tracks. Search can be done in each level.
15. Now you will return to the iPod Play Screen and the Podcast will start playing

iPod Video Operation



Menu

1. While the video is playing, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the halo is around the Menu Icon.
3. Press in on the volume knob to select Menu.
4. Now a pop-up window will appear with Menu option:
 - Subtitles (ON and OFF).
5. Press in on the volume knob to select the Menu Option.

** Note: Not All Video Files Will Contain These Features. **

Subtitles (ON and OFF)

1. If you select Subtitles you will see the subtitles on the screen while the video is playing.
2. Use the volume knob to select your Subtitle options.
3. You can press the Back Button to return back to the iPod Video Play Screen.

Top

This feature will take you to the beginning of the current chapter.

1. While the video is playing, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the halo is around the Top Icon.
3. Press in on the volume knob to select Top.
4. You will be taken back to the iPod Video Play Screen and the video will begin playing from the start of the current chapter.

iPod Video Operation



Chapter

1. While the video is playing, Press the **MENU Button**.
2. Use the volume knob to scroll through options until the halo is around the Chapters Icon.
3. Press in on the volume knob to select Chapters.
4. Now a pop-up window will appear with a number pad for you to enter in the chapter number..
5. Use the volume knob to scroll through the numbers.
6. Press in on the volume knob to select the chapter number(s).
7. When you have finished your chapter selection.
8. Scroll to the bottom of the pop-up screen and select "OK".
9. You will now return to the iPod Video Play Screen and the video will start playing from the selected Chapter.



Repeat

1. While the video is playing, Press the **MENU Button**.
 2. Use the volume knob to scroll through options until the halo is around the Repeat Icon.
 3. Press in on the volume knob to select Repeat.
 4. Now a pop-up window will appear with Repeat options:
 - Chapter (Repeats current Chapter).
 - All (Repeats All Chapters).
 - Off (Turns OFF the Repeat Feature).
 5. Press in on the volume knob to select your Repeat function.
- * If you change your mind and do not want to use the Repeat function, press the Back Button and you will return to the iPod Video Play Screen.

USB 1 and USB 2 Operation



[◀ SEEK] Seek Back Button

- Press and release button to go back to previous song
- Press and Hold for Three Seconds to scan back through song, release and song will continue playing

[SEEK ▶] Seek Forward Button

- Press and release button to advance to next song
- Press and Hold for Three Seconds to scan through song, release and song will continue playing

[▶||] Play / Pause Button

- Press to **PAUSE** the song
- When track is **PAUSED**, press again to continue playing the song

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen
- Press to backwards in multiple Menu Screens
- Press to return to current source play screen from Menu or Settings Screen

[MENU] Menu Button

- Press to access additional options
- Repeat (Song, Folder, All or OFF)
 - Random (ON or OFF)
 - Shuffle (ON or OFF)
 - Folders (Access Music Folders)
 - Songs (Access Songs)
 - SCAN option for Intro Music SCAN

USB 1 and USB 2 Operation



Shuffle

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Shuffle Icon is in the middle of the carousel
3. Press in on the volume knob to select Shuffle
4. Now a pop-up window will appear with Shuffle options:
 - ON (Turns the Shuffle Feature ON)
 - OFF (Turns the Shuffle Feature OFF)
5. After your choice has been made, you will see the Shuffle Icon appear on the USB Play Screen

Repeat

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Repeat Icon is in the middle of the carousel
3. Press in on the volume knob to select Repeat
4. Now a pop-up window will appear with Repeat options:
 - Song (Repeats current Song)
 - Folder (Repeats songs in Folder)
 - All (Repeats All songs)
 - Off (Turns OFF the Repeat Feature)
5. After your choice has been made, you will see the Repeat Icon appear on the USB Play Screen

Random

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Random Icon is in the middle of the carousel
3. Press in on the volume knob to select Random
4. Now a pop-up window will appear with Random options:
 - ON (Turns the Random Feature ON)
 - OFF (Turns the Random Feature OFF)
5. After your choice has been made, you will see the Random Icon appear on the USB Play Screen

SCAN

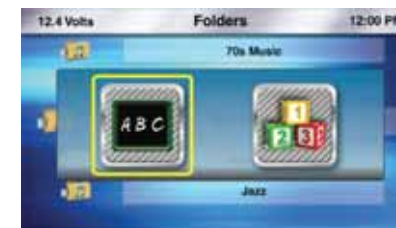
1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the SCAN Icon is in the middle of the carousel
3. Press in on the volume knob to select SCAN
4. In play screen, Scan indicator will appear, indicating that it is in Scan mode and the first 10 seconds of each song in the folder will play

USB 1 and USB 2 Operation



Folders

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Folders Icon is in the middle of the carousel
3. Press in on the volume knob to select Folders
4. The list of your Folders will now appear
5. Use the volume knob to scroll through your Folders
6. Press in on the volume knob to select the Folder that is in the middle of the screen
7. It will display the list of songs present in that folder. Then press in on the volume knob to select the song from the list. Now you will return to the play screen and song starts playing.



Folders Search by ABC or 123

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Folders Icon is in the middle of the carousel
3. Press in on the volume knob to select Folders
4. The list of your Folders will now appear
5. Press the **MENU Button**
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123"
 - "ABC" is search by Letter
 - "123" is search by Number
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon
8. Press in on the volume knob to select "ABC" or "123"
9. Now a pop-up window will appear with Letters/Numbers in icons
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number
12. you will now see a list of folder starting with the selected Alphabet/Number.
13. If there is no match found for the selected alphabet/number, then pop up saying the same will be displayed,
14. Use the volume knob to scroll through the list of Folder
15. When the Folder you would like is in the middle of the screen
16. Press in on the volume knob to select that Folder
17. It will display the list of songs present in that folder. Then press in on the volume knob to select the song from the list. Now you will return to the play screen and song starts playing

USB 1 and USB 2 Operation



Songs

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Songs Icon is in the middle of the carousel
3. Press in on the volume knob to select Songs
4. The list of your Songs will now appear
5. Use the volume knob to scroll through your Songs
6. Press in on the volume knob to select the Song that is in the middle of the screen
7. You will now return to the iPod Play Screen and the song will start playing



Songs Search by ABC or 123

1. From the USB Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Songs Icon is in the middle of the carousel
3. Press in on the volume knob to select Songs
4. The list of your Songs will now appear
5. Press the **MENU Button**
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123"
 - "ABC" is search by Letter
 - "123" is search by Number
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon
8. Press in on the volume knob to select "ABC" or "123"
9. Now a pop-up window will appear with Letters/Numbers in icons
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number
12. You will now see a list of folder starting with the selected Alphabet/Number.
13. You will now see a list of Songs. If there is no match found for the selected alphabet/number, then pop up saying the same will be displayed.
14. Use the volume knob to scroll through the list of Songs
15. When the Song you would like is in the middle of the screen
16. Press in on the volume knob to select that Song
17. Now you will return to the USB Play Screen and the song will start playing

Note: In all search option (for all source option), Searching is restricted to starting Alphabet/Number only

Pandora Operation



[◀ SEEK] Seek Back Button

- No function

[SEEK ▶] Seek Forward Button

- Press and release button to advance to next song

[▶||] Play / Pause Button

- Press to PAUSE the song
- When track is PAUSED, press again to continue playing the song

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen
- Press to go backwards in multiple Menu Screens
- Press to return to current source play screen from Menu or Settings Screen



[MENU] Menu Button

Press to access additional options

- Stations (Music Stations from your Pandora Account)
- Bookmark (ON or OFF)
- Thumbs Up
- Thumbs Down

Note:

The following Pandora connection status may appear:

- Please login to Pandora on device
- Device disconnected
- Pandora not responding
- Skip limit reached
- Station does not exist
- Limited connectivity
- Fetching stations information
- Unable to play due to music listening restrictions
- Pandora server under maintainace
- Check the mobile app on device
- Skip not allowed
- Select a station from station list
- Track rating failed

Pandora Operation



Stations

1. From the Pandora Play Screen, press the **MENU Button**
2. Use the volume knob to scroll through options until the Stations Icon is in the middle of the carousel
3. Press in on the volume knob to select Stations
4. The list of your Stations will now appear
5. Use the volume knob to scroll through your Stations
6. Press in on the volume knob to select the Station that is in the middle of the screen
7. You will now return to the Pandora Play Screen and the song will start playing

Stations Search by ABC or 123

1. From the Pandora Play Screen, press the **MENU Button**
2. Use the volume knob to scroll through options until the Stations Icon is in the middle of the carousel
3. Press in on the volume knob to select Stations
4. The list of your Stations will now appear
5. Press the **MENU Button**
6. Now a pop-up window will appear with two options to choose from: "ABC" or "123"
 - "ABC" is search by Letter
 - "123" is search by Number
7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon
8. Press in on the volume knob to select "ABC" or "123"
9. Now a pop-up window will appear with Letters/Numbers in icons
10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
11. Press in on the volume knob to select that Letter/Number
12. You will now see a list of Stations starting with the same alphabet/number.
 - If there is no match found for the selected alphabet/number, then pop up saying the same will be displayed,
13. Use the volume knob to scroll through the list of Stations
14. When the Station you would like is in the middle of the screen
15. Press in on the volume knob to select that Station
16. Now you will return to the Pandora Play Screen and the Station will start playing
17. Station Art is display for each station, if available else generic station Art will be displayed.

Note: In all search option (for all source option), Searching is restricted to starting Alphabet/Number only

Pandora Operation



Bookmark

1. From the Pandora Play Screen, press the **MENU Button**
2. Use the volume knob to scroll through options until the Bookmark Icon is in the middle of the carousel
3. Press in on the volume knob to select Bookmark
4. Now a pop-up window will appear with Bookmark options:
 - YES (Bookmarks the current song to your Pandora Account)
 - CANCEL (Returns you back to the Pandora Play Screen)
5. If YES is selected, A pop up will appear with "Bookmark saved" screen for 2 seconds and then display again the Pandora Play screen
6. If Bookmark failure occurs, Pop up window will appear with "Bookmark not saved" for 2 seconds
7. After your choice has been made, you will return to the Pandora Play Screen



Thumb Up

1. From the Pandora Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Thumb Up Icon is in the middle of the carousel
3. Press in on the volume knob to select Thumbs Up
4. After your choice has been made, you will return to the Pandora Play Screen

Thumb Down

1. From the Pandora Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Thumb Down Icon is in the middle of the carousel
3. Press in on the volume knob to select Thumb Down
4. After your choice has been made, you will return to the Pandora Play Screen

General pop ups for Pandora:

1. Device disconnected
2. Pandora server under maintenance
3. Pandora not repsonding
4. Check the mobile app on the device
5. Skip limit reached
6. Limited connectivity etc

Settings



Settings

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, the following features will be accessible:
 - MW4 Information -
 - Clock
 - Date
 - Bluetooth
5. Press in on the volume knob to select the Settings Option you would like to enter

This section contains information for the following MW4 Features and Functions:

- MW4 Information**
- Hardware Information
 - Operating System Information (OS)
 - Software Version Information
 - Bluetooth Software Version Information
 - Application Firmware Information
 - System Reset



MW4 Information

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, use the volume knob to scroll to MW4 Information
5. When the MW4 Information Icon is in the middle of the screen, Press in on the volume knob to enter the MW4 Information Screen
6. After you have finished reviewing the MW4 Information, Press the Back Button to return to the previous Settings Screen

Settings



System Reset

1. Press in Volume knob when System Reset option is focussed
2. Pop up window will appear with YES and CANCEL options
3. If selected YES by pressing on volume knob, then option to enter parental lock code will appear if Parental Lock is set to ON. If code is not entered properly, then a confirmation screen saying "Need to proceed without resetting lock code" will appear
4. If Parental Lock is entered correctly (if applicable) or if LOCK is OFF, then a confirmation will appear as below with the ACCEPT and CANCEL option
****THIS ACTION WILL RESET THE SYSTEM AND RESTORE BACK TO ALL FACTORY DEFAULT SETTINGS****
**** YOU WILL LOSE ANY SAVED FAVORITES AND SETTINGS****
5. If ACCEPT is selected, then System will reset by powering down and then it will automatically restart
6. If CANCEL is selected, then it will return back to the current source in use



Clock

1. Press the **Source Button (SRC)**
 2. Use the volume knob to scroll through the sources
 3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
 4. Once in Settings, rotate the volume knob to Clock
 5. Press in on the volume knob to enter the Clock Settings
 - Hour
 - Minutes
 - AM/PM
 - 12 / 24 Hour Mode
- ** The halo will always default to Hour adjustment first, then minutes, AM/PM, and 12/24**
6. With the halo around Hour, rotate the volume knob to adjust to the correct Hour
 7. Press in on the volume knob to set the Hour
 8. The halo will automatically shift to Minutes
 9. With the halo around the Minutes, rotate the volume knob to adjust to the correct Minutes
 10. Press in on the volume knob to set the Minutes
 11. The halo will automatically shift to AM/PM
 12. With the halo around the AM/PM, rotate the volume knob to change from AM to PM
 13. Press in on the volume knob to set AM or PM
 14. The halo will automatically shift to 12/24
 15. With the halo around the 12/24, rotate the volume knob to change from 12 to 24 Hour Mode
 16. Press in on the volume knob to set 12 or 24 Hour Mode
 17. After the Clock has been set, you will return to the Settings Menu

Settings

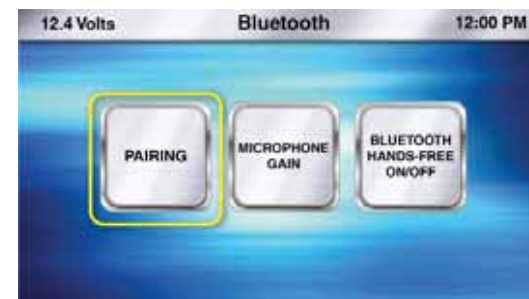


Date

1. Press the **Source Button (SRC)**
 2. Use the volume knob to scroll through the sources
 3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
 4. Once in Settings, rotate the volume knob to Date
 5. Press in on the volume knob to enter the Date Settings
 - Day
 - Month
 - Date
 - Year (Default = 2013)
- ** The halo will always default to Day adjustment first, then Month, Date, and Year**
6. With the halo around Day, rotate the volume knob to adjust to the correct Day
 7. Press in on the volume knob to set the Day
 8. The halo will automatically shift to Month
 9. With the halo around the Month, rotate the volume knob to adjust to the correct Month
 10. Press in on the volume knob to set the Month
 11. The halo will automatically shift to Date
 12. With the halo around the Date, rotate the volume knob to adjust to the correct Date
 13. Press in on the volume knob to set the Date
 14. The halo will automatically shift to Year
 15. With the halo around the Year, rotate the volume knob to adjust the Year
 16. Press in on the volume knob to set the year
 17. After the Date has been set, you will return to the Settings Menu

*****The Date Information will Only be displayed on the Large Clock **
Please refer to the Display Settings to enable the Large Clock to be displayed after 25 seconds of no action.***

Settings



Bluetooth

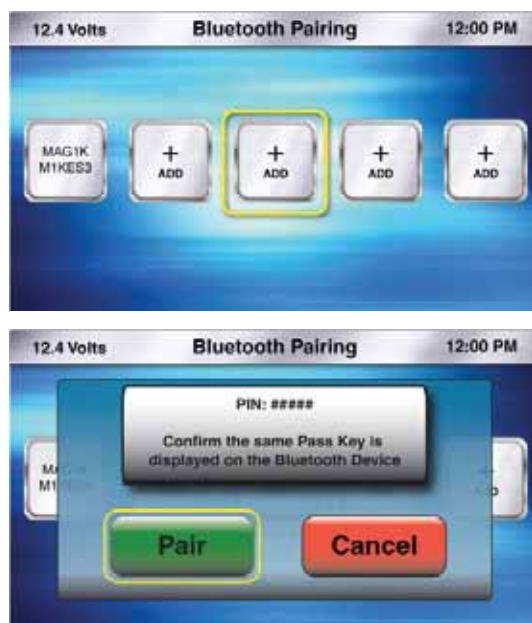
1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, rotate the volume knob to Bluetooth
5. Press in on the volume knob to enter Bluetooth Settings
 - Bluetooth Hands-Free ON or OFF (Turns the Bluetooth Hands-Free Feature ON or OFF)
 - Pairing (Pair, Connect, Transfer Bluetooth Connection, and Delete Paired Device)
 - Microphone Gain (Adjust the Optional external Bluetooth Microphone sensitivity)



Bluetooth (Hands-Free ON or OFF)

1. Press the **Source Button (SRC)**
 2. Use the volume knob to scroll through the sources
 3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
 4. Once in Settings, rotate the volume knob to Bluetooth
 5. Press in on the volume knob to enter Bluetooth Settings
 6. With the halo around Bluetooth Hands-Free ON / OFF Icon
 7. Press in on the volume knob to select Bluetooth Hands-Free ON / OFF
 8. Now a pop-up window will appear providing Two options:
 - ON = Turn ON the Bluetooth Hands-Free Profile (Allows for Hands-Free Calling)
 - OFF = Turns OFF the Bluetooth Hands-Free Profile (Disables the ability for Hands-Free Calling)
- * Default = OFF**
9. Use the volume knob to toggle between ON and OFF
 10. Press in on the volume knob to select your choice
 11. After your choice has been made, you will be taken back to the Bluetooth Settings Menu

Settings



Bluetooth (Pairing)

The MW4 Bluetooth Pairing sequence is based on the Bluetooth SSP (Simple Secure Pairing Profile) and will Not require input of a PIN Code to Pair Bluetooth Devices

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, rotate the volume knob to Bluetooth
5. Press in on the volume knob to enter Bluetooth Settings
6. Rotate the volume knob and move the halo until it is around the Pairing Icon
7. With the halo around Pairing Icon, Press in on the volume knob to select Bluetooth Device Pairing
8. You will now see the Bluetooth Pairing Screen that displays Five Icons that will populate with the "+ ADD" or "Paired Device Names"
- * If No Devices have been Paired, you will see Five "+ ADD" Icons
9. Use the volume knob to toggle through the Icons to select the position to save the Paired Device Information
10. Press in on the volume knob to select a "+ ADD"
11. The MW4 is now in Bluetooth Pairing Mode
12. Confirm that your Bluetooth Device is "ON" and the Bluetooth on the device is "ON"
13. When the MW4 has found a Bluetooth Device, you will see a pop-up window appear asking you to Confirm the PIN Information from the MW4 to the Device
- * Confirm that the PIN Number on the screen of the MW4 is the same as the PIN Number that is being Displayed on the screen of the Bluetooth Device
14. If both PIN Numbers are the same
15. Press in on the volume knob to select "PAIR"
16. Once the MW4 and the Bluetooth Device are Paired, you will now be taken to the Bluetooth Paired/Connected Device Information Screen

Settings



Bluetooth (Paired/Connected Device Information Screen)

*After Pairing a Device you will be taken to this screen.
You can access this screen when Pairing a Device is not necessary

This screen is where you can view the Paired Bluetooth Information, Switch Bluetooth connection to a different Paired Device and Delete the Paired Device

Access the Paired/Connected Device Information Screen

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, rotate the volume knob to Bluetooth
5. Press in on the volume knob to enter Bluetooth Settings
6. Use the volume knob until the halo is around the Pairing Icon
7. Use the volume knob and move the halo until it is around the Paired Device that you would like to:
 - Switch To This Device (Changes Bluetooth Connection)
 - Delete This Device (Select to Delete a Paired Bluetooth Device)

Press the Back Button to return to the Bluetooth Settings Screen

Settings



Bluetooth (Switch To This Device)

1. When you are at the Paired/Connected Device Information Screen
2. Use the volume knob and move the halo until it is around Switch To This Device
3. Press in on the volume knob to switch Bluetooth Connection to this device
4. Now a pop-up window will appear asking you to Confirm Connection to this Device
5. Use the volume knob to Toggle between "YES" or "NO"
6. Press in on the volume knob to select your choice
7. If you select "YES", then you have now transferred Bluetooth Connection and you will return back to the Bluetooth Settings Screen
8. If you select "NO", then you will return back to the Bluetooth Settings Screen

Bluetooth (Switch To This Device)

*** Follow these steps if you are Not in the Paired/Connected Device Information Screen**

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, rotate the volume knob to Bluetooth
5. Press in on the volume knob to enter Bluetooth Settings
6. Rotate the volume knob and move the halo until it is around the Pairing Icon
7. With the halo around Pairing Icon
8. Press in on the volume knob to select Bluetooth Device Pairing
9. You will now see the Bluetooth Pairing Screen that displays Five Icons that will populate with the "+ ADD" or "Paired Device Names"
10. Use the volume knob and move the halo until it is around the Paired Device you would like to switch Bluetooth Connection to
11. Press in on the volume knob to select the Device you would like to switch Bluetooth Connection to
12. You will now be taken to the Paired/Connection Device Information Screen
13. Use the volume knob and move the halo until it is around Switch To This Device
14. Press in on the volume knob to switch Bluetooth Connection to this device
15. Now a pop-up window will appear asking you to confirm Connection to this Device
16. Use the volume knob to Toggle between "YES" or "NO"
17. Press in on the volume knob to select your choice
18. If you select "YES", then you have now transferred Bluetooth Connection and you will return back to the Bluetooth Settings Screen
19. If you select "NO", then you will return back to the Bluetooth Settings Screen

Settings



Bluetooth (Delete This Device)

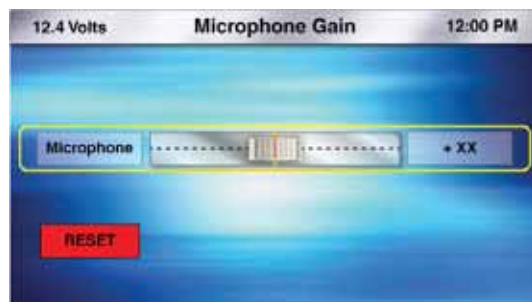
1. When you are at the Paired/Connected Device Information Screen
2. Use the volume knob and move the halo until it is around Delete This Device
3. Press in on the volume knob to Delete This Device
4. Now a pop-up window will appear asking you to confirm you want to Delete This Device
5. Use the volume knob to Toggle between "YES" or "NO"
6. Press in on the volume knob to select your choice
7. If you select "YES", then you have now Deleted This Device and you will return back to the Bluetooth Settings Screen
8. If you select "NO", then you will return back to the Bluetooth Settings Screen

Bluetooth (Delete This Device)

*** Follow these steps if you are Not in the Paired/Connected Device Information Screen**

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, rotate the volume knob to Bluetooth
5. Press in on the volume knob to enter Bluetooth Settings
6. Rotate the volume knob and move the halo until it is around the Pairing Icon
7. With the halo around Pairing Icon
8. Press in on the volume knob to select Bluetooth Device Pairing
9. You will now see the Bluetooth Pairing Screen that displays Five Icons that will populate with the "+ ADD" or "Paired Device Names"
10. Use the volume knob and move the halo until it is around the Paired Device you would like to Delete
11. Press in on the volume knob to select the Device you would like to Delete
12. You will now be taken to the Paired/Connection Device Information Screen
13. Use the volume knob and move the halo until it is around Delete This Device
14. Press in on the volume knob to Delete This Device
15. Now a pop-up window will appear asking you to confirm Delete This Device
16. Use the volume knob to Toggle between "YES" or "NO"
17. Press in on the volume knob to select your choice
18. If you select "YES", then you have now Deleted This Device and you will return back to the Bluetooth Settings Screen
19. If you select "NO", then you will return back to the Bluetooth Settings Screen

Settings



Bluetooth (Microphone Gain)

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Settings Icon is in the middle of the carousel, Press in on the volume knob to select Settings
4. Once in Settings, rotate the volume knob to Bluetooth
5. Press in on the volume knob to enter Bluetooth Settings
6. Rotate the volume knob and move the halo until it is around the Microphone Gain Icon
7. With the halo around Microphone Gain Icon
8. Press in on the volume knob to select Microphone Gain
9. You will now be taken to the Microphone Gain Adjustment Screen
 - The halo will automatically go around the Microphone Gain Slider
 - You can use the volume knob to move the halo to the Reset Microphone Gain Icon
 - If you Reset the Microphone Gain level, it will default to the middle level (+5)
10. Use the volume knob to adjust the Microphone Gain from "0" to "+10"
11. Press in on the volume knob to select the Microphone Gain level
12. You will return back to the Bluetooth Settings Screen

Note:

The Bluetooth Microphone is an optional accessory and is not included with this unit.

2-Zone Operation



2-Zone (ON / OFF)

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the 2-Zone Icon is in the middle of the carousel, Press in on the volume knob to select 2-Zone
4. Once in 2-Zone, rotate the volume knob until the halo is around 2-Zone
5. Press in on the volume knob to turn the 2-Zone Feature ON or OFF
6. Rotate the volume knob and move the halo until it is around 2-Zone ON or 2-Zone OFF
7. If you select ON, then the 2-Zone Feature will be enabled
8. If you select OFF, then the 2-Zone Feature will be disabled
9. With 2-Zone ON, you will return to the 2-Zone Menu to select Front and Rear Sources
10. With 2-Zone OFF, you will return to the Main Source Menu

NOTE:

Once a source has been selected for each Zone, you can go to the source for Zone 1 or Zone 2 for operation and functionality.

2-Zone Operation



2-Zone (Front Source)

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the 2-Zone Icon is in the middle of the carousel, Press in on the volume knob to select 2-Zone
4. Once in 2-Zone, rotate the volume knob until the halo is around Front Source
5. Press in on the volume knob to select Front Source
6. You will now see the Main Source Menu with a prompt to select the Front Source
7. Use the volume knob to scroll through the Sources you would like to use for the Front Source
8. Once you select a source for the Front Source (Zone 1), you will be taken to the 2-Zone Menu to make a Source selection for the Rear Source (Zone 2)



2-Zone (Rear Source)

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the 2-Zone Icon is in the middle of the carousel, Press in on the volume knob to select 2-Zone
4. Once in 2-Zone, rotate the volume knob until the halo is around Rear Source
5. Press in on the volume knob to select Rear Source
6. You will now see the Main Source Menu with a prompt to select the Rear Source
7. Use the volume knob to scroll through the Sources you would like to use for the Rear Source
8. Once you select a source for the Rear Source (Zone 2), you will return to the Play Screen for the Front Source.
9. If you want to change the volume level for Rear Source, You need to press AUDIO Button and select the source 2 ZONE. Then it appears the 2 Zone Volume setting and volume can be changed for both Zone 1 and Zone 2 separately. Other settings like bass treble will remain the same as Zone 1 source and cannot be changed

Note: While 2 Zone setting is Turned ON and if you press any other source than (excluding FRONT Source or REAR source) 2 Zone Source, there won't be any response. To select any other source, you need to first Turn OFF the 2 Zone setting and then select any other source to Play. It is not allowed to select same source as FRONT and REAR source. If you select also, there won't be any response from DC.

AUX 1 and AUX 2 Operation



AUX 1 and AUX 2 (Audio)

1. Press the **Source Button (SRC)**
 2. Use the volume knob to scroll through the sources
 3. When the AUX 1 or AUX 2 Icon is in the middle of the carousel
 4. Press in on the volume knob to select AUX 1 or AUX 2
 5. You can now listen to the device that has been connected to the AUX 1 or AUX 2 RCA Inputs
- ** If you have a device that plays Audio and Video and you are not seeing the video image, please check the video input on the MW4 has been connected to the video output from your Audio and Video Device.

WARNING

VIEWING A VIDEO SIGNAL ON ANY DASH MOUNTED MONITOR WHILE IN MOTION IS PROHIBITED BY LAW.



AUX 1 and AUX 2 (Video)

1. Press the **Source Button (SRC)**
 2. Use the volume knob to scroll through the sources
 3. When the AUX 1 or AUX 2 Icon is in the middle of the carousel
 4. Press in on the volume knob to select AUX 1 or AUX 2
 5. You can now watch video from the device that has been connected to the AUX 1 or AUX 2 RCA Inputs
- ** If you have a device that plays Audio and Video and you are not seeing the video image, please check the video input on the MW4 has been connected to the video output from your Audio and Video Device.

** Verify the Video Interlock Wire has been connected and the correct sequence has been followed.

Note: When the video signal is detected in AUX1/AUX2, then the status bar would appear displaying the battery voltage, Source name (AUX1/AUX2) and the clock for 3 seconds and then disappear.

Camera Operation



Camera

1. Press the **Source Button (SRC)**
 2. Use the volume knob to scroll through the sources
 3. When the Camera Icon is in the middle of the carousel
 4. Press in on the volume knob to select Camera
 5. You can now view the image from the Camera
- ** If you see a "No Video Signal Detected" message on the screen, please check the Camera RCA input on the MW4 has been connected to the video output from your Rear Vision Camera (Page 88). **
- Verify the Video Interlock Wire has been connected and the correct sequence has been followed.

Camera (Using Camera Trigger Wire)

1. While in any source, listening to audio from that source and then view Camera Image
2. Provide a +12v signal to the Camera Trigger Wire (Purple) on the MW4 from a +12v Switch or an Open Accessory Switch.
3. When the switch is ON, you can view the Camera Image and listen to the audio source
4. If you want to change channels or any other features for the source that is playing, you can place the Switch to the OFF position and the Camera Image will go away and you will now see the source you Want to adjust or change.
5. To return back to viewing the Camera Image, place the switch to the ON position

** Refer to the Installation Guide for wiring a switch with and without using a SPDT Relay (Page 88).

2-Zone with Camera

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the 2-Zone Icon is in the middle of the carousel
4. Press in on the volume knob to select 2-Zone
5. Select Camera for the Front Source (Zone 1)
6. Select an Audio Source for the Rear Source (Zone 2)
7. You can now view the image from the Camera
8. Audio will only be heard out of the speakers connected to Zone 2.

Bluetooth Audio Operation



[◀ SEEK] Seek Back Button

- Press and release button to go back to previous song
- Press and Hold for Three Seconds to scan back through song, release and song will continue playing

[SEEK ▶] Seek Forward Button

- Press and release button to advance to next song
- Press and Hold for Three Seconds to scan through song, release and song will continue playing

[▶||] Play / Pause Button

- Press to PAUSE current song
- When track is PAUSED, press again to continue playing current song (iPod, Bluetooth Audio, USB, and Pandora)

[BACK] Back Button

- Press to go back to previous Menu or Settings Screen
- Press to backwards in multiple Menu Screens
- Press to return to current source play screen from Menu or Settings Screen

Bluetooth Audio

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Bluetooth Audio Icon is in the middle of the carousel
4. Press in on the volume knob to select Bluetooth Audio
5. You will now be taken to the Bluetooth Audio Play Screen

Bluetooth Audio Operation



[MENU] Menu Button

Press to access additional options

- Repeat (Song, Playlist, All, Off)
- Random (ON or OFF)
- Shuffle (ON or OFF)
- Folder Browsing
- Paired Devices



Repeat

1. From the Bluetooth Audio Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Repeat Icon is in the middle of the carousel
3. Press in on the volume knob to select Repeat
4. Now a pop-up window will appear with Repeat options:
 - Song (Repeats current song)
 - All (Repeats All songs)
 - Off (Turns OFF the Repeat Feature)
5. After your choice has been made, you will see the Repeat Icon appear on the Bluetooth Audio Play Screen

Bluetooth Audio Operation



Random

1. From the Bluetooth Audio Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Random Icon is in the middle of the carousel
3. Press in on the volume knob to select Random
4. Now a pop-up window will appear with Random options:
 - ON (Turns the Random Feature ON)
 - OFF (Turns the Random Feature OFF)
5. After your choice has been made, you will see the Random Icon appear on the Bluetooth Audio Play Screen



Shuffle

1. From the Bluetooth Audio Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Shuffle Icon is in the middle of the carousel
3. Press in on the volume knob to select Shuffle
4. Now a pop-up window will appear with Shuffle options:
 - ON (Turns the Shuffle Feature ON)
 - OFF (Turns the Shuffle Feature OFF)
5. After your choice has been made, you will see the Shuffle Icon appear on the Bluetooth Audio Play Screen

Folder Browsing

1. From the Bluetooth Audio Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Folders Icon is in the middle of the carousel
3. Press in on the volume knob to select Folders
4. Now a pop-up window will appear with "AVRCP 1.4 not supported" when connected device does not support AVRCP 1.4 profile
5. When AVRCP 1.4 profile is supported, then list of folder will appear when Folder Option is selected
6. To search the folder, Press Menu and select alphabet/Numbers. Then list of folders starting with entered alphabet/number will appear

Bluetooth Audio Operation



Paired Devices

1. From the Bluetooth Audio Play Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Paired Devices Icon is in the Middle of the carousel
3. Press in on the volume knob to select Paired Devices
4. Now you will see your Paired Device Icons
5. Use the volume knob to move The halo until it is around the Paired Device that you would like to either Switch Connection or Delete
6. Press in on the volume knob to select the Paired Device
7. Once your selection has been made, you will be taken to the Bluetooth Paired/Connected Device Information Screen



Paired Devices (Paired/Connected Device Information Screen)

This screen is where you can view the Paired Bluetooth Information, Switch Bluetooth connection To a different Paired Device and Delete the Paired Device

Bluetooth Audio Operation



Bluetooth (Switch To This Device)

1. When you are at the Paired/Connected Device Information Screen
2. Use the volume knob and move the halo until it is around Switch To This Device
3. Press in on the volume knob to switch Bluetooth Connection to this device
4. Now a pop-up window will appear asking you to Confirm Connection to this Device
5. Use the volume knob to Toggle between "YES" or "NO"
6. Press in on the volume knob to select your choice
7. If you select "YES", then you have now transferred Bluetooth Connection and you will return back to the Bluetooth Audio Settings Screen
8. If you select "NO", then you will return back to the Bluetooth Audio Settings Screen



Bluetooth (Delete This Device)

1. When you are at the Paired/Connected Device Information Screen
2. Use the volume knob and move the halo until it is around Delete This Device
3. Press in on the volume knob to Delete This Device
4. Now a pop-up window will appear asking you to confirm you want to Delete This Device
5. Use the volume knob to Toggle between "YES" or "NO"
6. Press in on the volume knob to select your choice
7. If you select "YES", then you have now Deleted This Device and you will return back to the Bluetooth Audio Settings Screen
8. If you select "NO", then you will return back to the Bluetooth Audio Settings Screen

Phone Operation



Phone

1. Press the **Source Button (SRC)**
2. Use the volume knob to scroll through the sources
3. When the Phone Icon is in the middle of the carousel
4. Press in on the volume knob to select Phone
5. You will now be taken to the main Phone Screen



Phone Menu

1. While in the main Phone Screen
2. Press the **Menu Button**
3. You will now see the Phone Menu Options
 - Speaker (Select Left Front or Right Front Speaker for Hands-Free Calling Audio)
 - Contacts (View list of Contact from Paired and Connected Phone)
 - Dial Pad (To Manually Enter in a Phone Number to Call)
 - Call History (View your Missed Calls, Incoming Calls, Outgoing Calls)
 - Paired Devices (View Paired/Connected Phone Information, Switch Paired Device, Delete Device)
4. Press in on the volume knob to make your selection

Phone Operation



Speaker

1. While in the main Phone Screen
 2. Press the **Menu Button**
 3. You will now see the Phone Menu Options
 4. Use the volume knob to move the halo until it is around the Speaker Icon
 5. Press in on the volume knob to select Speaker
 6. Use the volume knob to change which speaker you would like your Phone Call Audio to be heard from.
- * Default = Right Front Speaker



Contacts

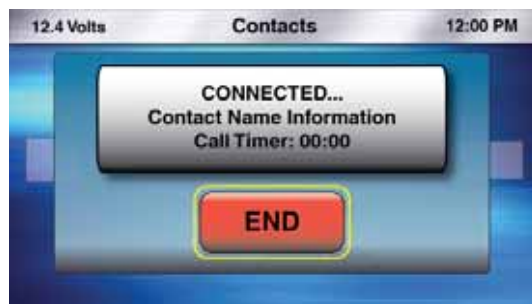
1. While in the main Phone Screen
2. Press the **Menu Button**
3. You will now see the Phone Menu Options
4. Use the volume knob to move the halo until it is around the Contacts Icon
5. Press in on the volume knob to select Contacts
6. You will now see the list of Contacts that are on the Paired and Connected Phone
7. Use the volume knob to scroll through your list of Contacts
8. By pressing in on the volume knob to select a Contact, you will now place a phone call to that contact

Phone Operation



Placing a Call from Contact List

1. While in list of Contacts
2. Use the volume knob to scroll through your list of Contacts
3. When the Contact Person's Information is in the middle of the screen
4. Press in on the volume knob to place a call to that Contact
5. A pop-up window will appear with options to place a CALL or CANCEL
6. If you select CALL, the call will be placed and the display will show "DIALING....", then "CONNECTED"
7. With the phone call in place, the display will show the Caller ID, Timer and a END CALL Button
8. When the call is ended, you will go back to the last played source



Phone Operation



Contact Search by ABC or 123

1. From the main Phone Screen, Press the **MENU Button**
 2. Use the volume knob to scroll through options until the Contacts Icon is in the middle of the carousel
 3. Press in on the volume knob to select Contacts
 4. The list of your Contacts will now appear
 5. Press the **MENU Button**
 6. Now a pop-up window will appear with two options to choose from: "ABC" or "123"
 - "ABC" is search by Letter
 - "123" is search by Number
 7. Use the volume knob to toggle between the two options by moving the halo around the ABC icon
 8. Press in on the volume knob to select "ABC" or "123"
 9. Now a pop-up window will appear with Letters/Numbers in icons
 10. Use the volume knob to scroll through the Letters/Numbers until the Letter/Number you want is in the middle of the carousel.
 11. Press in on the volume knob to select that Letter/Number
 12. You will now see a list of Contacts
 13. Use the volume knob to scroll through the list of Contacts
 14. When the Contact you would like to call is in the middle of the screen
 15. Press in on the volume knob to dial that Contact
 16. A pop-up window will appear with options to place a CALL or CANCEL
 17. If you select CALL, the call will be placed and the display will show "DIALING....", then "CONNECTED"
 18. With the phone call in place, the display will show the Caller ID, Timer and a END CALL Button
 19. When the call is ended, you will go back to the last played source
- Note: In all search option (for all source option), Searching is restricted to starting Alphabet/Number only

Phone Operation



Phone Dial Pad

1. From the main Phone Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Dial Pad Icon is in the middle of the carousel
3. Press in on the volume knob to select Dial Pad
4. The Phone Dial Pad will now appear
5. Use the volume knob to scroll through the numbers, and Press in on the volume knob to select one number at a time
6. Select all numbers necessary to place the phone call
7. Once the phone number is complete, use the volume knob to scroll to the bottom of the screen until you place the halo around the **DONE Button**
8. If you input a wrong number, scroll to the bottom of the screen until you place the halo around the **DELETE Button**. Press in on the volume knob to Delete the wrong number, then scroll back to the Numbers and re-enter the correct number
9. If you select the **DONE Button**, you will now be asked to confirm that you would like to dial the number you had entered
10. If you select "YES" the phone call will be placed
11. If you select "CANCEL" you will return back to the Phone Menu Screen



Phone Operation



Phone Call History

1. From the main Phone Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Call History Icon is in the middle of the carousel
3. Press in on the volume knob to select Call History
4. The Phone's Call History will now be listed and indicating Missed Call, Incoming Call, Outgoing Call
5. Use the volume knob to scroll through the list of your Call History
6. When the middle of the screen shows a Missed Call, Incoming Call or Outgoing Call that you would like to call
7. Press in on the volume knob to place a call
8. A pop-up window will appear with options to place a CALL or CANCEL
9. If you select CALL, the call will be placed and the display will show "DIALING...", Then "CONNECTED"
10. With the phone call in place, the display will show the Caller ID, Timer and a END CALL Button
11. When the call is ended, you will go back to the last played source



Phone Operation



Paired Devices

1. From the main Phone Screen, Press the **MENU Button**
2. Use the volume knob to scroll through options until the Paired Devices Icon is in the middle of the carousel
3. Press in on the volume knob to select Paired Devices
4. Now you will see your Paired Device Icons
5. Use the volume knob to move the halo until it is around the Paired Device that you would like to either Switch Connection or Delete
6. Press in on the volume knob to select the Paired Device
7. Once your selection has been made, you will be taken to the Phone Paired/Connected Device Information Screen



Paired Devices (Paired/Connected Device Information Screen)

This screen is where you can view the Paired Bluetooth Information, Switch Bluetooth connection to a different Paired Device and Delete the Paired Device

Phone Operation



Phone (Switch To This Device)

1. When you are at the Paired/Connected Device Information Screen
2. Use the volume knob and move the halo until it is around Switch To This Device
3. Press in on the volume knob to switch Phone Connection to this device
4. Now a pop-up window will appear asking you to Confirm Connection to this Device
5. Use the volume knob to Toggle between "YES" or "NO"
6. Press in on the volume knob to select your choice
7. If you select "YES", then you have now transferred Phone Connection and you will return back to the last played source
8. If you select "NO", then you will return back to the Phone Menu Screen



Phone (Delete This Device)

1. When you are at the Paired/Connected Device Information Screen
2. Use the volume knob and move the halo until it is around Delete This Device
3. Press in on the volume knob to Delete This Device
4. Now a pop-up window will appear asking you to confirm you want to Delete This Device
5. Use the volume knob to Toggle between "YES" or "NO"
6. Press in on the volume knob to select your choice
7. If you select "YES", then you have now Deleted This Device and you will return back to the Last played source
8. If you select "NO", then you will return back to the Phone Menu Screen

Phone Operation



Incoming Call

1. If you receive an Incoming Call while in any source, a pop-up window will appear
2. You can choose to ANSWER or IGNORE the incoming phone call
3. The halo will default to the **ANSWER Button**, so to Answer the call you would just press in on the Volume knob to answer the phone call
4. Use the volume knob to move the halo to the **IGNORE Button** and then press in on the volume knob to ignore the phone call and return to the play screen of the source you are currently using
5. If you answer the phone call, a pop-up window will appear showing the call status and an option To END the phone call
6. While the phone call is in progress, this Call Status window will stay active until you End the phone Call or if the call has been ended by the person calling in
7. When the call has been completed, you will return to the source you are currently using

Phone Operation



Make a second Incoming Call (Call Waiting)

1. When you are in the Active call and you want to have a second incoming call
2. Press Answer button the DC when the incoming call screen is appeared
3. Once the 2nd call is answered by press of **ANSWER button**, the first call goes to Held



Transfer Call

1. When you are in the Active call press the **TRANSFER button**
2. MW4 supported transfer from Hands Free mode to private mode (MW4 to Mobile Phone)
3. MW4 supported from Private mode to Hands free mode (Mobile Phone to MW4)
4. During an incoming (in band ringtone) or outgoing call the MW4 cannot establish an audio connection with the linked Mobile phone, the MW4 shall transfer to private call
5. When the call is ended, you will go back to the last played source



Swap Call / Conference Call

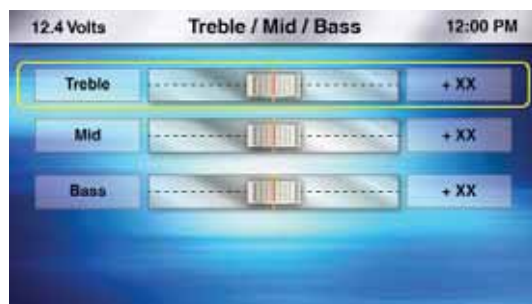
1. User can swap the two call by pressing Swap option on Display Controller
2. User can also merge the 3 calls to make it conference call, press merge button on the screen.

Audio Settings



Audio Settings

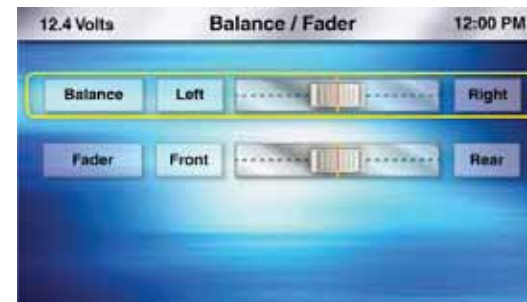
1. Press the **Audio Button**
2. Use the volume knob to scroll through the Audio Settings Carousel
3. Press in on the volume knob to select the Audio Settings you would like to adjust
 - Treble / Mid / Bass (Adjust the Treble, Mid and Bass levels from -10 to +10)
 - Balance / Fader (Adjust the sound position from 0 to 60 from Left to Right and Front to Rear)
 - Equalizer (Adjust the frequency from -10 to +10 and level for 5-bands)
 - Source Volume Control (SVC) (Adjust the volume level for each source from 0 to 60)
 - Subwoofer (Adjust the Volume from 0-60, Frequency and Phase from -10 to +10)
 - 2-Zone (Adjust the volume from 0-60 for Zone 1, Zone 2 and Both)



Treble / Mid / Bass

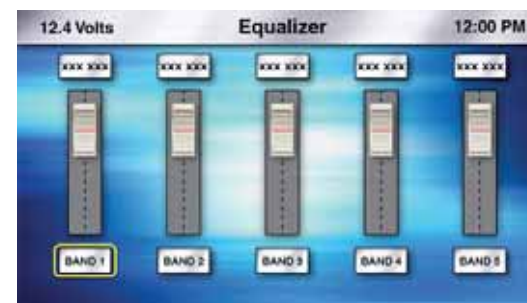
1. Press the **Audio Button**
2. Use the volume knob to scroll until the Treble/Mid/Bass Icon is in the middle
3. Press in on the volume knob to select Treble/Mid/Bass
4. Rotate the volume knob to adjust the Tweeter level (-10 to +10)
5. When you have completed adjusting the Tweeter level, press in on the volume knob
6. You will see the halo around the Mid sound adjustment slider
7. Rotate the volume knob to adjust the Mid Level (-10 to +10)
8. When you have completed adjusting the Mid level, press in on the volume knob
9. You will see the halo around the Bass sound adjustment slider
10. Rotate the volume knob to adjust the Bass Level (-10 to +10)
11. When you have completed adjusting the Bass Level, press in on the volume knob

Audio Settings



Balance / Fader

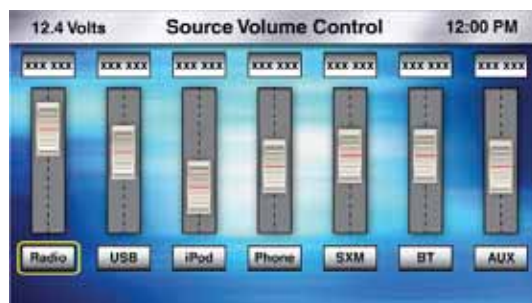
1. Press the **Audio Button**
2. Use the volume knob to scroll until the Balance/Fader Icon is in the middle
3. Press in on the volume knob to select Balance/Fader
4. Rotate the volume knob to adjust the Balance Level (Left, Center, Right)
5. When you have completed adjusting the Balance level, press in on the volume knob
6. You will see the halo around the Fader Level adjust met slider
7. Rotate the volume knob to adjust the Fader Level (Front, Center, Rear)
8. When you have completed adjusting the Fader level, press in on the volume knob
9. You will see the halo around the Reset Button. If you select Reset, all adjustments will Adjust back to the default level (0)
10. Press the Back Button to return to the Audio Settings Carousel



Equalizer

1. Press the **Audio Button**
2. Press in on the volume knob to switch Equalizer Bands. Each Press of the volume knob will advance you to the next Equalizer Band
3. Adjust the Equalizer Band by rotating the volume knob
4. Once the Equalizer Band has been adjusted, Press in on the volume knob to switch to the next Band
5. If you would like to reset the Equalizer, Press in on the volume knob until the halo is around the Defeat Icon. Then Press in on the volume knob to reset the Equalizer back to Flat (level = 0)
6. Press the Back Button to return to the Audio Settings Carousel when finished

Audio Settings



Source Volume Control (SVC)

1. Press the **Audio Button**
2. Press in on the volume knob to switch through Sources. Each Press of the volume knob will advance you to the next Source.
3. Adjust the Source Volume by rotating the volume knob
4. Once the Source Volume has been adjusted, Press in on the volume knob to switch to the next Source
5. Press the **Back Button** to return to the Audio Settings Carousel when finished



Subwoofer

1. Press the **Audio Button**
2. Use the volume knob to scroll until the Subwoofer Icon is in the middle
3. Press in on the volume knob to select Subwoofer
4. Rotate the volume knob to adjust the Subwoofer Volume (-10 to +10)
5. When you have completed adjusting the Subwoofer Volume, press in on the volume knob
6. You will see the halo around the Frequency adjustment slider
7. Rotate the volume knob to adjust the Frequency
8. When you have completed adjusting the Frequency, press in on the volume knob
9. You will see the halo around the Subwoofer Phase
10. Rotate the volume knob to move the halo around Normal or Reverse
11. Press in on the volume knob to select Normal or Reverse Phase (Default = Normal)
12. Press the **Back Button** to return to the Audio Settings Carousel

Audio Settings



2-Zone

1. Press the **Audio Button**
2. Use the volume knob to scroll until the 2-Zone Icon is in the middle
3. Press in on the volume knob to select 2-Zone
4. Rotate the volume knob to adjust the volume level (-10 to +10) for All Zones (Zone 1 + Zone 2)
5. When you have completed adjusting the volume level for All Zones, press in on the volume knob
6. You will see the halo around the Zone 1 volume adjustment slider
7. Rotate the volume knob to adjust the Zone 1 volume level (-10 to +10)
8. When you have completed adjusting the Zone 1 volume level, press in on the volume knob
9. You will see the halo around the Zone 2 volume adjustment slider
10. Rotate the volume knob to adjust the Zone 2 volume Level (-10 to +10)
11. When you have completed adjusting the Zone 2 volume Level, press in on the volume knob
12. You will see the halo around the **Reset Button**. If you select Reset, all adjustments will adjust back to the default level (0)
13. Press the **Back Button** to return to the Audio Settings Carousel



Note:

When 2-Zone is ON you cannot select USB as a Front and Rear Source at the same time.

Display Settings

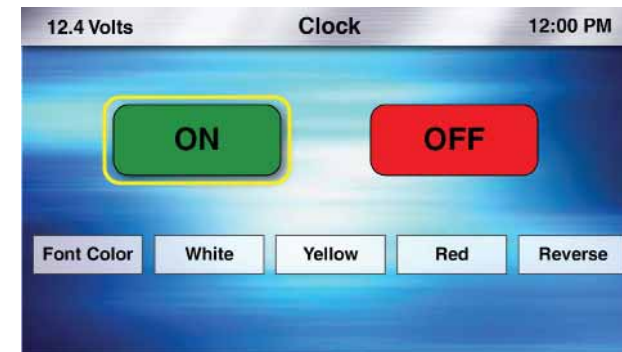


Display

1. Press the **Display Button**
2. Use the volume knob to move the halo to the Display Option you would like to adjust
3. Press in on the volume knob to select the Display Option
 - Clock (Large Clock Display after 25 seconds of no action)
 - Status Bar (View the Status Bar on Top or Bottom of Screen)
 - Mode (Change from Day Mode to Night Mode)
 - Brightness (Adjust the screen Brightness (-10 to +10))

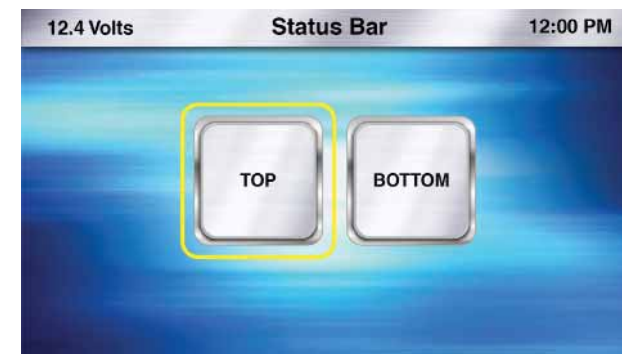


Display Settings



Clock

1. Press the **Display Button**
2. Use the volume knob to scroll until the halo is around the Clock Icon
3. Press in on the volume knob to select Clock
4. Rotate the volume knob to adjust the Clock appearance
 - ON (Default) Large Clock will be displayed after 25 seconds of no action
 - OFF (Large Clock will not be displayed)
 - Font Color (Change the Font Color: White, Yellow, Red and Reverse)
5. Selection of Reverse option changes the background color from Black to White
6. When finished, press the **Back Button** to return to the Display Settings



Status Bar

1. Press the **Display Button**
2. Use the volume knob to scroll until the halo is around the Status Bar Icon
3. Press in on the volume knob to select Status Bar
4. Rotate the volume knob to change the Status Bar position
 - Top (Default) Status Bar will be displayed on the Top of the Screen
 - Bottom (Status Bar will be displayed at the Bottom of the Screen)
5. When finished, press the **Back Button** to return to the Display Settings

Audio Settings



Day Mode



Night Mode

Mode

1. Press the **Display Button**
2. Use the volume knob to scroll until the halo is around the Mode Icon
3. Press in on the volume knob to select Mode
4. Rotate the volume knob to change the display Mode
 - Day (Default)
 - Night
5. When finished, press the **Back Button** to return to the Display Settings



Brightness

1. Press the **Display Button**
2. Use the volume knob to scroll until the halo is around the Brightness Icon
3. Press in on the volume knob to select Brightness
4. Rotate the volume knob to adjust the display Brightness
5. When finished, press the **Back Button** to return to the Display Settings

Favorites



Favorites

Rather than using presets, we are providing you with easier access to your favorite stations and contacts

1. Press the **Favorites Button**
2. Use the volume knob to scroll through your saved Favorites
3. Press in on the volume knob to access your saved Favorite
4. It will then change to the source for the Favorite and tune to the saved station

Save or Replace Station or Channel to Favorites

1. Tune to Radio Station, SiriusXM Channel or Pandora station you would like to save
2. Press the **Favorites Button**
3. Use the volume knob to scroll through Favorites, until you find the Favorite number position you would like to save the station or channel to
4. Press in on the volume knob to save station or channel Favorite numbered position
5. After you are finished saving your Favorite, you will return back to the source you are currently using

Save Phone Contact to Favorites

1. Scroll through your list of Phone Contacts
2. When the Contact you would like to save as a Favorite is in the middle of the screen;
3. Press the **Favorites Button**
4. Use the volume knob to scroll through Favorites, until you find the Favorite number position you would like to save the Phone Contact to
5. Press in on the volume knob to save the Contact in the Favorite numbered position
6. After you are finished saving your Favorite, you will return back to the source you are currently using

Delete Favorites

1. Press the **Favorites Button**
2. Use the volume knob to scroll through Favorites, until you find the Favorite you would like to Delete
3. Press in on the volume knob for Three Seconds
4. A pop-up window will appear asking you to confirm you want to Delete the saved Favorite
5. Use the volume knob to scroll through your options
 - YES (Deletes the saved Favorite)
 - CANCEL (Favorite does not get Deleted and you will return to the source you are using)
6. Press in on the volume knob to select your option
7. After your selection has been made you will return to the source you are using

Understanding the Graphical User Interface (GUI)

This section helps define and explain the operation and functions of the Graphical User Interface.



Main Menu Screen

This carousel of Sources provides a simple and easy way to view Sources and can be accessed anytime by pressing the **Source Button [SRC]**

Status Bar

The Status bar will be displayed on either the Top or Bottom of the screen. The Status Bar will disappear when viewing a video to allow for optimal view area.

The Status Bar provides several icon indicators that will appear when a source or feature requires it.

- Time (Please refer to the Clock Settings to Set the Time)
- Voltage Indication (This displays the voltage based on the Yellow +12v constant wire)
- Bluetooth Logo (When a compatible Bluetooth Device is Paired and Connected)
- Signal Strength Meter (SiriusXM, Phone)
- LO/DX Indicator (Local and Distance for Radio Tuner)
- Favorite Indicator (Star and number will appear if you tune to a station or channel that is a preset and which Favorite Number it is saved)



Low Battery Voltage Warning

This screen will appear when the Battery Voltage drops to or below 10v.

The audio will stop until voltage increases to 12v or above, then the audio will resume. This will help from draining too much current from the battery until the voltage increases.

Understanding the Graphical User Interface (GUI)



Volume

This type of Volume indication provides a simple and easy way to adjust the volume level. Each detent "Click" of the Volume Knob represents one bar for volume indication.

- 0 through 15 (Green)
- 16 through 30 (Yellow)
- 31 through 45 (Orange)
- 46 through 60 (Red)

When in a source play screen and the volume knob is rotated, this will adjust the volume level. After the volume has been adjusted, the volume indicator will stay displayed for 2 seconds, then it will disappear.



Mute

- When you are in a source play screen and would like to Mute the volume, simply press in and release the volume knob.
- A volume mute indicator will appear letting to know that the volume is on Mute and will stay displayed until it is unmuted.
- When the volume is muted and if user rotates the volume knob, first volume will be unmuted automatically and then the volume should change

**** Be Cautious and Aware of the Volume Level when you Mute and Un-Mute the Volume ****

Understanding the Graphical User Interface (GUI)



Radio Play Screens

Each Radio Play Screen offers a unique look and visual experience.

Radio Channels are changed by pressing the Seek Buttons.

Displays RDS Program Type (PTY) Information for easy reference for music/data identification.

Weather Band

The dial moves according to channel tuning through the Seven NOAA channels.

FM Band

Digital channel indication

AM Band

Analog channel tuning



No Device Detected Screen

This screen will appear if you are trying to use a source that requires a plug in device and/or accessory.

- SiriusXM = SXV200 or SXV300
- iPod = iPod or iPhone
- Bluetooth = iPod, iPhone or Smartphone
- Pandora = iPod, iPhone or Smartphone
- Camera = Back up Camera
- USB = USB Flash Drive

6. TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Unit will not power ON	No Power or Ground Vessel Battery Switch is OFF Blown Fuse Bad Grounding Point	Verify Power Connector to MW4 is connected Properly Verify Battery Switch is ON Check in-line Fuse and Vessel Accessory/Radio Fuse Ground to metal or battery
No Sound	Mute feature is ON Low volume level Speakers and Amplifier	Press in on volume knob To verify if Mute is ON or OFF Check volume level Check speaker connections And make sure Amp is ON
The controller is not Responding	Bad cable connection	Check the CAT5 Ethernet Cable. Unplug the CAT5 Ethernet Cable, then plug it back in Verify that you hear a "Click" when connecting the CAT5 Ethernet Cable
My phone is not Working or charging	USB Phone cable is not Connected to USB port USB Extension Cable is too Long	Check the USB Phone Cable is plugged into one of The USB ports The maximum USB length Should not exceed 4-feet. Longer USB extension's Increase the resistance and Will cause the phone to not Work properly. Use the Clarion CCAUSBV cable

6. TROUBLESHOOTING

ADVISORY NAME	RECOMMENDED DESCRIPTION
Check Antenna	<p>The radio has detected a fault with the SiriusXM antenna.</p> <p>The antenna cable may either be disconnected or damaged.</p> <p>Verify that the antenna cable is connected to the SiriusXM Connect Vehicle Tuner.</p> <p>Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged.</p> <p>SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com</p>
Check Tuner	<p>The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.</p> <p>Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.</p>
No Signal	<p>The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.</p> <p>Verify that your vehicle is outdoors with a clear view of the sky.</p> <p>Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle.</p> <p>Move the SiriusXM antenna away from any obstructions. Inspect the antenna cable for damage and kinks.</p> <p>Consult the SiriusXM Connect Vehicle tuner installation manual for more information on antenna installation. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com</p>
Subscription Updated	<p>The radio has detected a change in your SiriusXM subscription status.</p> <p>Press OK to clear the message.</p> <p>Visit www.siriusxm.com or call 866-635-2349 if you have any questions about your subscription.</p>

6. TROUBLESHOOTING

ADVISORY NAME	RECOMMENDED DESCRIPTION
Channel Not Available	<p>The channel that ou have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect Vehicle Tuner.</p> <p>Visit www.siriusxm.com for more information about the SiriusXM channel lineup.</p>
Channel Not Subscribed	<p>The channel that ou have requested is not included in your SiriusXM subscription package or the channel that you were listening to is no longer included in your SiriusXM subscription package.</p> <p>Visit www.siriusxm.com or call 866-635-2349 if you have questions about your subscription package or would like to subscribe to this channel.</p>
Channel Locked	<p>The channel that you have requested is Locked by the radio Parental Control feature. See the section on Parental Control, page 14 for more information on the Parental Control feature and how to access locked channels.</p>

7. SPECIFICATIONS

FM Tuner with RDS

Frequency Range:	USA	87.9 ~ 107.9MHz (0.2MHz STEP)
	Europe	87.5 ~ 108.0MHz (0.05MHz STEP)
	Australia	87.5 ~ 108.0MHz (0.01MHz STEP)
	Other Countries	87.5 ~ 108.0MHz (0.01MHz STEP)

AM Tuner

Frequency Range:	USA	530 ~ 1710kHz (10kHz STEP)
	Europe	531 ~ 1602kHz (9kHz STEP)
	Australia	531 ~ 1629kHz (9kHz STEP)
	Other Countries	531 ~ 1629kHz (9kHz STEP)

Weather Band with RDS (if available)

NOAA Frequency Range: 162.400MHz ~ 162.550MHz		
Channel 1: 162.400MHz	Channel 2: 162.425MHz	Channel 3: 162.450MHz
Channel 4: 162.475MHz	Channel 5: 162.500MHz	Channel 6: 162.525MHz
Channel 7: 162.550MHz		

Audio

Maximum Power Output: 50W x 4
 Rated Power Output: 21W x 4 (CEA2006) 1% THD, 1 kHz @ 14.4V
 High Pass Filter (Front/Rear): 70/105/140/THROUGH (Speaker and RCA) Low Pass Filter (Subwoofer): 50/75/100/THROUGH
 BASS Control: 50Hz Frequency, +14dB ~ -14dB
 MID Control: 1k Frequency, +14dB ~ -14dB
 TREBLE Control: 12kHz Frequency, +12dB ~ -12dB

General

Power Supply Voltage: 14.4VDC (10.8 to 15.6V allowable)
 Grounding System: Negative Ground
 Speaker Impedance: 4-8 ohms per channel
 Processor: Freescale iMx287 ARM9 454MHz 2GB RAM
 ASTM B117 (Salt/Fog Exposure) = Black Box and Controller
 ASTM D4329 (UV Exposure) = Black Box and Controller
 IP66 (Black Box)
 IP67 (Controller)
 Dimensions:
 Black Box = 2" (H) x 8" (W) x 7" (L)
 Controller = 4" (H) x 6" (W) x 1" (D)
 Heat Sink: Magnesium/Aluminum

Supported Audio Formats

USB: MP3 and WMA

SAE J1939

Broadcast Type: Open Broadcast 29 Bit
 Bandwidth: 500KB/Second
 Clock: 1MB/Second

Display Controller

LCD: 4.3" Optically Bonded Color
 Resolution: 480 x 272
 Luminance: 650 NITS

NOTE:

Specifications and Design are subject to change Without notice for further improvement.

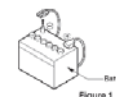
INSTALLATION AND WIRE CONNECTIONS

Contents

1. BEFORE STARTING
2. PACKAGE CONTENTS
3. INSTALLATION CAUTIONS
4. BLACK BOX INSTALLATION
5. DISPLAY CONTROLLER INSTALLATION
6. WIRE CONNECTIONS

1. BEFORE STARTING

1. Read these instructions carefully
2. This unit has been developed exclusively for use in vessels With a negative ground 12V power (battery/ charging system) source.
3. Be sure to disconnect the battery (-) Negative terminal before starting.
 This is to prevent short circuits during the installation process. (Figure 1)



2. PACKAGE CONTENTS

Item	Quantity
1. MW4 Black Box.....	1
2. MW4 Display Controller	1
3. 34-Pin Keyed Power/Speaker/RCA Connector/SWI.....	1
4. 26-Pin Keyed Remote/USB1, 2/Wired Remote (MW1,MW2)/ Wired Remote (MW4)/ Display Controller Connector.....	1
5. 34-Pin Keyed AUX/SXM/BT Microphone/Video/J1939.....	1
6. CAT5 Ethernet Display Controller Cable (10-feet).....	1
7. Metal Display Controller Mounting Bracket.....	1
8. Stainless Steel Metric Threaded Studs (M4-.7 @ 4mm-.7 x 38mm) (Controller)	2
9. Stainless Steel Metric Lock Washer (5mm) for Controller	2
10. Stainless Steel Metric Flanged HEX Nuts (M4-.7 @ 4mm-.7) (Controller)	2
11. Stainless Steel Metric Self Tapping Screw (M4) for Mounting Black Box.....	4
12. MW4 Owner's Manual (English/French/Spanish) - CD	1
13. MW4 Installation Guide (English) - Printed	1
14. MW4 Installation Guide (French) - On Owner's Manual CD	1
15. MW4 Installation Guide (Spanish) - On Owner's Manual CD	1
16. MW4 Quick Start Guide (English) - Printed.....	1
17. MW4 Quick Start Guide (French) - On Owner's Manual CD.....	1
18. MW4 Quick Start Guide (Spanish) - On Owner's Manual CD	1

3. INSTALLATION CAUTIONS

1. In order to avoid any interference, do not install the Black Box or Display Controller in the Proximity of the engine compartment.
2. The use of unauthorized parts can cause permanent damage to the unit.
3. Always check your wire connections to ensure proper installation before turning the unit ON.
4. Consult with your nearest dealer for proper installation or if common parts are needed.
 * Seek professional assistance if modifications or drilling holes in the vessel are needed.
5. Do not install the system where it will be subjected to excessive moisture, dust, dirt, foreign particles or vibration. Areas of high temperature from the engine, direct sunlight, heater or hot Air should be avoided.
6. Do not install the system in a location where it will interfere with the vessels operation, or it will injure the passengers if there is a sudden or emergency stop.

4. MW4 BLACK BOX INSTALLATION

1. Select an area with sufficient ventilation for the mounting of the MW4 Black Box in order to prevent the Black Box from overheating. You may mount the Black Box in a horizontal or vertical position. If the Black Box is mounted in a vertical position, do not mount the Black Box with the harnesses directly pointing upwards to prevent water collecting on top of the harnesses.



2. Please refer to the diagram below for the mounting screw hole positions. Always use the provided MW4 Metric Stainless Steel Self Tapping Screws to mount the MW4 Black Box.
3. Extension of the wires/cables may be necessary to route the harness and cable throughout the vessel.

NOTE: Retain some slack in the harness/cable to prevent damage to the wires. It is recommended to relieve the stress on all wires and cables.



4. Always read through the wiring diagram in this manual first, and then follow all provided wiring diagrams carefully. All connections should be soldered using heat shrink tubing or electrical tape to ensure proper connections. Zip Tie all wires and cables to prevent interference of existing components and or body parts (example: Foot, Arm, Leg, Hand, etc.)
5. Once the wiring connections are completed, re-connect the Negative Terminal on the battery, turn the vessel battery accessory switch ON and power on the unit to check if it is operating correctly.

If abnormalities occur, disconnect the Negative Terminal on the battery, recheck all wiring and Re-connect the Negative Terminal on the battery, turn the vessel battery accessory switch ON, Power ON the unit, verify the system powers ON and is working correctly. Please refer to the Troubleshooting section for assistance.

5. DISPLAY CONTROLLER INSTALLATION

Drilling Holes for Display Controller:

**Place the display controller on the area on the dash that you would like the display controller to be mounted. (Figure 1)
Check for clearance around the display controller to make sure that it does not interfere with any existing gauges or dash contour.
** Before drilling any holes, check behind the dash and make sure that the drill bit will not damage any wires or cables behind the dash.

- Step 1
Use masking tape on the area you would like to mount the display controller
- Step 2
Place the display controller on the masking tape and use a pen to draw a line around the display controller
- Step 3
Remove the display controller once the outside line of the display controller is drawn
- Step 4
Use a ruler or a straight edge to mark the middle of the display controller (side to side and top to bottom)
- Step 5
Place the flat surface of the mounting bracket on the masking tape in the middle of the display controller area
- Step 6
Use a pen to draw inside of each cut out on the mounting bracket (Left Hole, Middle Hole and Right Hole)(Figure 2)
- Step 7
Remove the mounting bracket
- Step 8
Drill out each hole until the lines are no longer visible. (1/8" for side holes and 1" for center hole) (Figure 3)

After holes are drilled, remove the masking tape and proceed to "Mounting Bracket Installation".

Figure 1



Figure 2



Figure 3

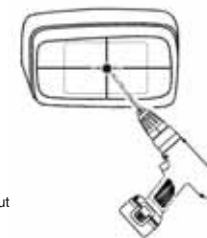


Figure 4

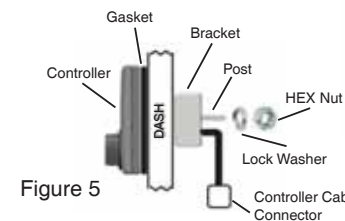
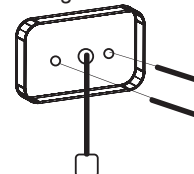


Figure 5

- (2) Stainless Steel Metric Threaded Studs (M4-.7 @ 4mm-.7 x 38mm)
- (2) Stainless Steel Metric Lock Washer (5mm)
- (2) Stainless Steel Metric Flanged HEX Nuts (M4-.7 @ 4mm-.7)

Mounting Bracket Installation:

- Step 1
Place Rubber Neoprene Gasket to back of the Display Controller
- Step 2
Screw Stainless Steel Metric Threaded Posts into the Metric Threaded Inserts on the back of the Display Controller (Figure 4)
- Step 3
Slide the Metric Threaded Posts and Display Controller Cable pigtail that are attached to the Display Controller through the holes in the dash (Figure 5)
- Step 4
With the Display Controller placed flat on the dash, slide the mounting bracket through the Metric Threaded Posts that are sticking out on the backside of the dash (Figure 5)
- Step 5
Slide one lock washer on each Metric Threaded Post (Figure 5)
- Step 6
Fasten one Hex Nut on each Metric Threaded Post and tighten until the display controller does not move around and the back of the display controller is sitting flat on the dash (Figure 5)

6. WIRE CONNECTIONS

Please follow these connection diagrams carefully and solder all wire connections.

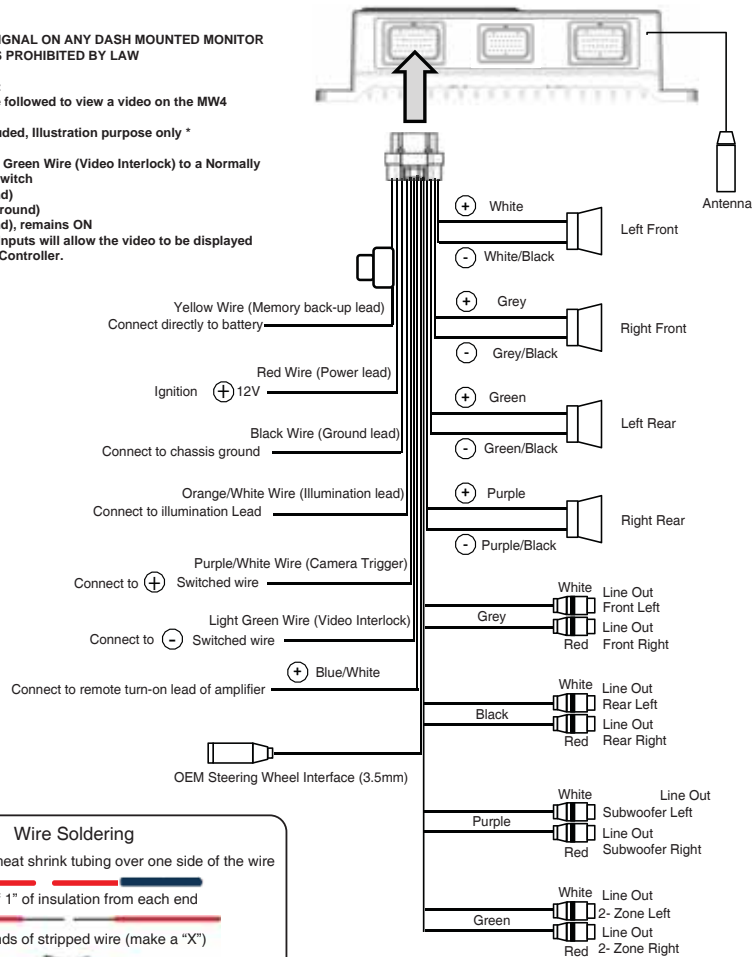
CN1 (LEFT) Connection Diagram

WARNING
VIEWING A VIDEO SIGNAL ON ANY DASH MOUNTED MONITOR WHILE IN MOTION IS PROHIBITED BY LAW

Video Interlock Wire:
These steps must be followed to view a video on the MW4 Display Controller.

* Switch is NOT included, illustration purpose only *

1. Connect the Light Green Wire (Video Interlock) to a Normally Open Grounded Switch
 2. Switch ON (Ground)
 3. Switch OFF (No Ground)
 4. Switch ON (Ground), remains ON
- Now the RCA Video Inputs will allow the video to be displayed on the MW4 Display Controller.



Wire Soldering

Slide a 1" piece of heat shrink tubing over one side of the wire

Strip off 1" of insulation from each end

Cross ends of stripped wire (make a "X")

Wrap ends of wire together

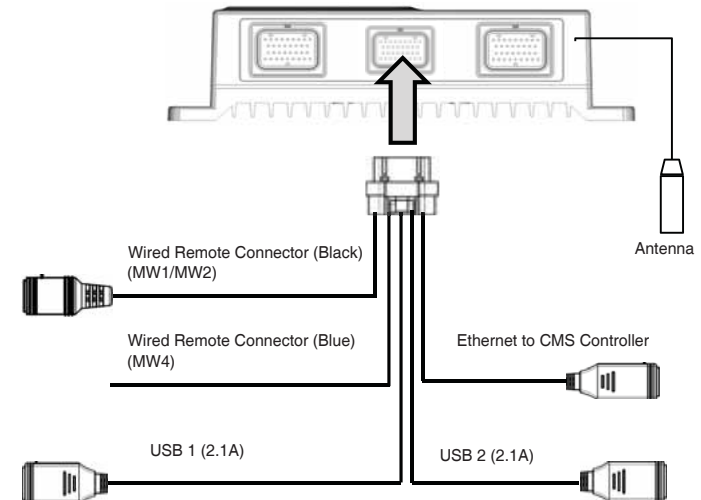
Apply solder to the wrapped wire

Slide heat shrink tubing around soldered wire

6. WIRE CONNECTIONS

Please follow these connection diagrams carefully and solder all wire connections.

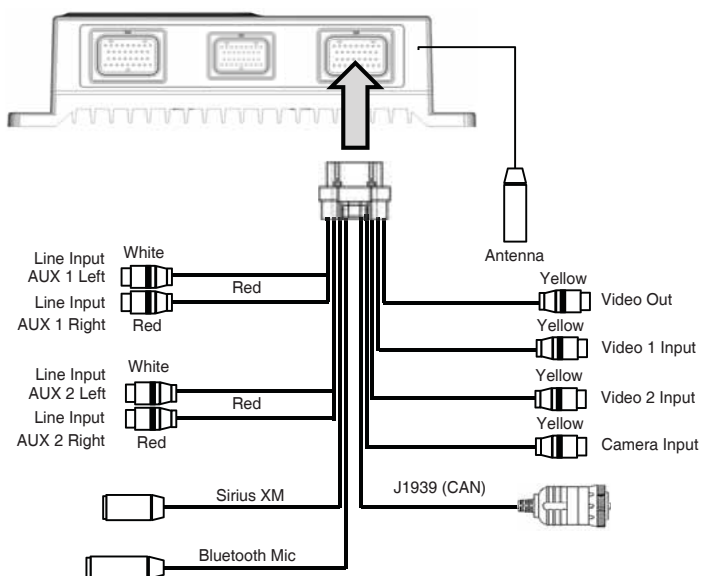
CN2 (CENTER) Connection Diagram



6. WIRE CONNECTIONS

Please follow these connection diagrams carefully

CN3 (RIGHT) Connection Diagram

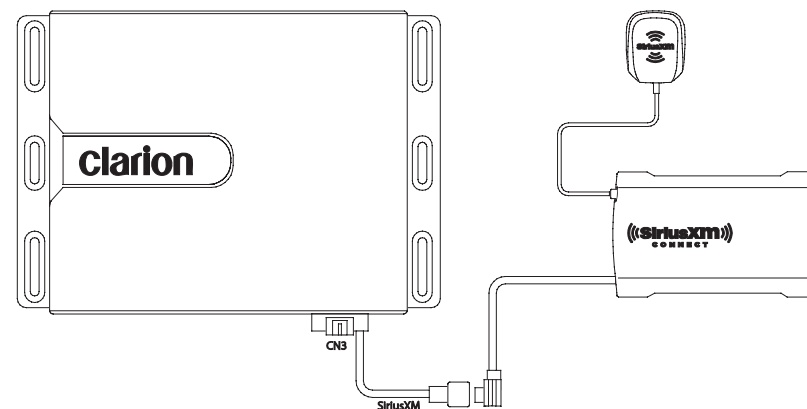


6. WIRE CONNECTIONS

** SiriusXM Satellite Radio Tuner is sold separately **

SiriusXM Installation:

1. Mount the included SXM Antenna with clear view to the sky
2. Run Antenna Cable to the SXM Tuner location
3. Connect SXM Antenna to the SXM Antenna Connector on Tuner
4. Connect SXM Cable from SXM Tuner to the SXM Connector (CN3) on the MW4 Black Box

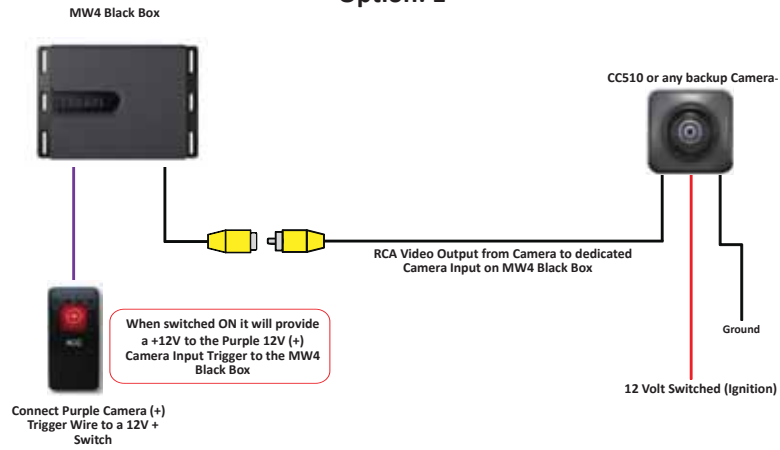


6. WIRE CONNECTIONS

Please follow these connection diagrams carefully

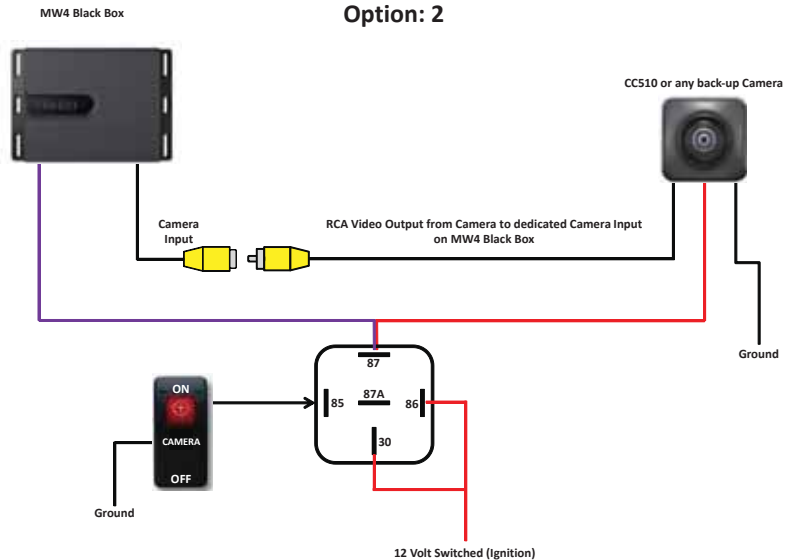
Rear Vision Camera Connection Diagram

Option: 1



Rear Vision Camera Connection Diagram

Option: 2

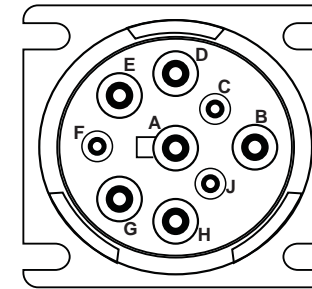


6. WIRE CONNECTIONS

Please follow these connection diagrams carefully

J1939 Connector

View: Front of J1939 Connector



Only use this J1939 Connector to compatible Multi-Function Displays (MFD)

PIN NUMBER	NAME	GAUGE	COLOR
A	CAN B -	20	WHITE
B	CAN B +	20	PURPLE
C	CAN HIGH	20	YELLOW
D	CAN LOW	20	GREEN
E	CAN - DRAIN	20	BLACK
F	NOT USED		
G	NOT USED		
H	NOT USED		
J	NOT USED		

NOTE:

This J1939 CAN Connector contains insulated twisted wires that are Connected by terminating resistors on the dedicated CAN on the main PCB of the MW4 Black Box.

FCC NOTE :

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.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS OR CHANGE TO THIS EQUIPMENT. SUCH MODIFICATIONS OR CHANGE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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