

## User/Installation Manual





### PRECAUTIONS

Do not attempt to open the unit. There are no user serviceable parts or adjustment's inside.

No responsibility can be taken for use of the unit other than under normally expected operating conditions.

If exposed to direct sunlight or operated for extended periods metal surfaces may become hot. Take care when handling.

### USING iPod/iPhones

This unit has been tested with compatible authentic iPod models under normal expected operating conditions, free from any pre-existing defects in either the unit or the iPod.

No responsibility can be taken for use of the unit other than under normally expected operating conditions in conjunction with fully functional and undamaged iPod units which have been manufactured and authorized by Apple Inc.

#### **USB FLASH DRIVES**

- Drive format: All USB flash drives used with this unit must be formatted to either FAT32 or NTFS format. These are the most commonly used format for USB flash drives.
- Audio track format: Audio tracks stored on USB flash drive must be in MP3. M4A or FLAC formats to play on this unit.

### REGISTER YOUR PRODUCT ONLINE

For your own peace of mind, register your product purchase online at www.fusionentertainment.com

We'll keep you up to date with any news related to your product or new accessories to help you get the most from your product.

### RECORD YOUR PRODUCT DETAILS HERE:

SERIAL NUMBER DATE OF PURCHASE

AFFIX RECEIPT HERE

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### INSTALLATION

If any modification to the vessel is required, such as drilling holes etc FUSION recommends consultation with your boat dealer or manufacturer beforehand.

#### MOUNTING CONSIDERATIONS

This device should be mounted in a location that is not exposed to extreme temperatures or conditions. Extended exposure to high temperatures, in storage or operating conditions, may cause device failure. Extreme-temperature-induced damage and related consequences are not covered by the warranty.

- The device must be mounted in a location where it is not submerged.
- The device must be mounted in a location with adequate ventilation where it is not exposed to extreme temperatures.
- The device should be mounted so that the cables can be connected easily.
- To achieve IPX3 water ingress protection and optimal heat sink cooling, the device must be mounted on a vertical surface with the connectors pointing downward.
- The device may be mounted on a horizontal surface, but such positioning might not achieve IPX3 water ingress protection.
- To avoid interference with a magnetic compass, the device should be installed at least 203 mm (8 in.) away from a compass.

#### MOUNTING THE DEVICE

- 1. Place the device in the mounting location and mark the location of the pilot holes.
- 2. Drill the appropriate pilot hole for one corner of the device.
- 3. Loosely fasten the device to the mounting surface with one corner and examine the other three pilot-hole marks.
- 4. Mark new pilot-hole locations if necessary, and remove the device from the mounting surface.
- 5. Drill the appropriate pilot holes for the other three marks.
- 6. Secure the device to the mounting location.



### ELECTRICAL WIRING

Caution: The MS-BB300 is designed for vessels with a 12V DC Negative ground electrical system

### INSTALLATION WARNING

- Ensure the marine vessels +12V lead is removed from the battery before any equipment is connected
- Investigate the marine vessel's fuel tanks and electrical wiring locations before you begin installation
- Ensure all wiring is protected to avoid damage

When wiring the MS-BB300, ensure that the wires are away from sharp objects and that rubber grommets and insulated bungs are used when routing the wiring. Ensure that when connecting the wires to the speakers and audio system, the terminals and connections are protected from shorting to each other or ground.

**Note:** Ensure the antenna cable is routed away from any power cables, and is the minimal length, as long cable runs will affect AM reception performance.

For optimum radio reception please ensure you use a dedicated AM/FM ground independent marine antenna.

Please refer to the following site for further info: **www.pacificaerials.co.nz** 

#### **ELECTRICAL ISOLATION OF THE MS-BB300**

The MS-BB300 stereo has a metal chassis which is connected to the Ground / Negative / Black wire (like most other stereos).Extra care should be taken when installing this type of stereo in an aluminium boat (or boats with a conductive hull) if you require the electrical system to be isolated from the boat hull.

## WIRING DIAGRAM



### PANEL CONNECTIONS

ANT	EXTERNAL AM/FM ANTENNA
AUX1 IN	STEREO LINE-LEVEL RCA AUXILIARY SOURCE
AUX2 1N	STEREO LINE-LEVEL RCA AUXILIARY SOURCE
ZONE3	LINE-OUT ZONE 3
SUB OUT	SUBWOOFER OUTPUT (TIED TO ZONE 3)
NMEA2000	NMEA 2000 NETWORK
SiriusXM	SiriusXM TUNER CONNECTOR
USB	USB-COMPATIBLE MEDIA DEVICE

### POWER/SPEAKER CONNECTIONS

YELLOW	BATTERY (+12 V constant)
RED	IGNITION (+12V switched)
BLACK	GROUND (-12v)
WHITE	SPEAKER ZONE 1 L (+)
WHITE/BLACK STRIPE	SPEAKER ZONE 1 L (-)
GREY	SPEAKER ZONE 1 R (+)
GREY/BLACK STRIPE	SPEAKER ZONE 1 R (-)
GREEN	SPEAKER ZONE 2 L (+)
GREEN/BLACK STRIPE	SPEAKER ZONE 2 L (-)
PURPLE	SPEAKER ZONE 2 R (+)
PURPLE/BLACK STRIPE	SPEAKER ZONE 2 R (-)
BLUE/WHITE STRIPE	AMPLIFIER ON
BROWN/WHITE STRIPE	TEL MUTE/INTERRUPT AUX

Note: Minimum speaker load impedance 4 Ohm

### CONNECTIONS

### CONNECTOR A

#### **BATTERY +12VDC**

Connect to the battery positive (+12VDC), or bus bars. A fuse or circuit breaker MUST be used at the battery end of the cable. Use a minimum wire size of 16AWG for wire length up to up to 6 meters / 20 feet.

#### IGNITION +12V switched

Connect to a separate switched +12V wire to control stereo ON/Off operation. Alternatively connect to the battery positive (+12VDC), or bus bars.

When the red "Ignition +12V switched" wire is not required for ignition on/off control, it MUST be connected together with the Yellow "Battery +12V" wire at the MS-BB300 head unit wiring loom.

**GROUND WIRE** — Recommended minimum wire size for Negative Ground wire: 16AWG for wire length up to up to 6 meters / 20 feet.

**AMPLIFIER ON** — When using an external amplifier connect to the "Remote turn ON" connection on the external amplifier.

**TELE MUTE / INTERRUPT AUX** — Connect to handsfree kit to either mute the stereo or switch to AUX to hear call. Activated when this line is taken to ground.

### PANEL CONNECTORS

**AUX INPUTS** — Connect an Auxiliary source to the left and right RCA (White = L, Red = R).

**SUBWOOFER OUT (DUAL MONO)** — Connect to a subwoofer amplifier, volume control linked to Zone 3. (Orange + Orange)

**LINEOUT ZONE 3** — Connect to an amplifier, volume control linked to Zone 3. (White = L, Red = R).

#### **ANTENNA CONNECTION** — Connect an AM/FM marine antenna.

**Note:** Boat installations do not typically offer the best ground plane environment. For optimum performance a ground plane independent antenna is recommended.

There are two main types of Antenna supplied for FM/AM reception in a marine environment.

The first is a "Ground Dependant" Antenna. This is designed to be used where the antenna base is in contact with a metal surface such as steel or aluminium that has a surface area of  $0.5m^2$  or greater. This is a ground plane and the antenna depends on it for reception signal strength, if fitted on a vessel without this you will get very poor reception.

The second is a "Ground Independent" antenna. This is suitable for non metal vessels and a ground plane is not required.

Ensuring you have the correct type of antenna for your vessel is something that is missed sometimes as it is not well advertised.

VHF splitters are another option but we do not recommend them for optimum reception, as you are relying on the short wire run from the stereo to the splitter and this is generally inside the vessel or behind a dash so reception is limited.

**USB/iPod/MTP CONNECTION** — Connect a USB key / flash drive (not included), a FUSION Marine Uni-Dock (not included), a MTP device or a certified Apple iPod sync cable (not included).

**Media Transfer Protocol (MTP):** MTP is a standard developed for connecting media (music) devices over USB. It has been adopted on a number of platforms including Android. FUSION currently supports a range of smartphones utilising MTP. Refer to **www.fusionentertainment.com** for the latest list of supported devices.

**SiriusXM® SATELLITE RADIO (USA only)** — Connect to SiriusXM Connect Vehicle Tuner (not included) (For use in USA only).

For more information on how to install the SiriusXM Connect Vehicle tuner, consult the installation guide included with the tuner.

**NMEA 2000** — Through the NMEA2000 network you control the MS-BB300 from a MS-NRX200i remote control or FUSION-Link compatible Multi Function Display. Two connection options are available;

A) MS-BB300R bundle. Supplied with a NRX200i remote control and all necessary cables to create a stand-alone FUSION remote control network.

B) MS-BB300. Supplied with a FUSION NMEA2000 drop cable (CAB000863) for connection to an existing NMEA2000 network.

**Important Note:** Adaptor cable CAB000862, provided with the MS-BB300R MUST not be used to connect the MS-BB300 to an existing NMEA 2000 network. Existing networks are normally powered separately. The non-powered drop cable (CAB000863) is available from FUSION for connecting to existing NMEA 2000 networks.

**Note:** FUSION recommends updating the MS-BB300 and NRX200i remote control software at the time of installation to the latest software available from www.fusionentertainment.com. See the Settings sections for more information.

### BUTTON DESCRIPTION



MS-NRX200i - Optional Accessory

<b>ROTARY ENCODER</b> Turn to adjust volume, move up or down menu structures. Press to select.	
<b>POWER</b> Press to turn on the MS-BB300 and MS-NRX200i. Press and hold for two seconds to power off. Press momentarily to mute/ un-mute audio.	0
<b>SOURCE</b> Press to cycle available sources.	$\bigcirc$
<b>MENU</b> Press to enter menu system. Press to return to previous screen. Press and hold to exit the menu structure.	
<b>PLAY/PAUSE</b> Press to pause or resume play. AM/FM/SiriusXM Press to cycle through tuning modes. Press to store the current station as a preset.	
<b>BACK/PREVIOUS</b> Short Press to select previous track or previous AM/FM/ SiriusXM station or preset. Press and Hold to rewind playback or fast stepping of frequencies.	احم
<b>FORWARD/NEXT</b> Short Press to select next track or next AM/FM/SiriusXM station or preset. Press and Hold to fast forward playback or fast stepping of frequencies.	

### GENERAL OPERATION

### INITIAL SETUP

Important: For correct AM/FM operation select the Tuner Region appropriate to your location. Default - USA. See section: Tuner Region Selection

### ADJUSTING THE VOLUME

Turn the 'Rotary Encoder' to adjust the volume.

### ZONE VOLUME

Press the 'Rotary Encoder' to step through zones.



### SETTINGS

Press the 'Menu' button and select 'Settings'. Select the desired setting to adjust.

**Note:** Whilst in Settings the 'Menu' button acts as a back/return to the previous screen. Any key press exits the menu screen.

► All zones → Zone 1 → Zone 2 → Zone 3 →

**ZONE SETUP** — The MS-BB300 Marine Stereo features Multi-Zone technology which enables 3 'Zones' with independent volume/balance control.

Select the Zone you wish to setup.

Select 'Balance' to adjust the audio balance from left to right within the selected zone. Select 'Volume Limit' to set the maximum volume limit within the selected zone.

Select 'Zone Name' to give the zone a name of your choice. Turn the rotary encoder to change the character. Press the rotary encoder to select. Press the 'Previous' button to delete characters

- To save changes press the 'Play' key

- To exit without saving any changes: press the 'Menu' key.

Zone Enable - Zones 2 and 3 can be disabled if required. This is useful, for example, if only one or two zones have been set up, as disabled zones are not displayed when setting volume levels.

Select the zone you wish to disable.

Select or deselect `Enable'.

Link to Zone 1. Zones 1 and 2 can be linked so that any volume level changes are applied to both Zones. A small "+" sign is displayed on screen between Zones 1 and 2 when this feature is enabled. To enable this feature select `Zone 2'. Select `Link to Zone 1'

**TONE** — Select 'Settings' then 'Zones' then 'Tone'. Adjust the Bass/ Middle/Treble settings. Press the 'Rotary Encoder' to cycle between Bass/Middle/Treble

**SUBWOOFER** — Select 'Settings' then 'Zones' then 'Zone 3' then 'Subwoofer'. Select 'Sub level' to set the desired maximum subwoofer output volume. Select 'Sub Filter' to select the desired cut-off frequency. 55Hz - 85Hz - 120Hz - 160Hz Default: 85Hz

**LCD** — Press the Rotary Encoder to cycle between Contrast and Brightness. Turn to adjust (MS-NRX200i display).

**POWER SAVE** — Press the Rotary Encoder to cycle between 'On' and 'Off'.

- OFF LCD/Button backlight on constantly
- ON LCD/Button backlight turns off after 30 seconds of non-activity. Press any key to resume.

**KEY SOUND** — Press the Rotary Encoder to cycle between 'On' and 'Off'.

**LANGUAGE** — Select the desired language for the on screen display English - Deutsch - Nederlands - Espanol - Italiano - Francais

**SEARCHING** — If your iPod/iPhone or MTP device contains more than 100 artists, songs or albums, you can use FUSION Alpha Search Technology (FAST) to quickly navigate by letter or number. Use this option to control when to display the FAST menu.

• Off. The song/album list is displayed but not the FAST menu.

• 100 -800. Display the FAST menu when your device contains more than the selected number of items.

**TUNER REGION** — Select the appropriate Region.

▶ USA → Europe → Japan→ Australasia →

**Important:** The correct Tuner Region must be selected. Default - USA.

**TELE MUTE OPTIONS** — Control the connection to a cell phone hands-free kit.

MUTE — Mutes the audio output from the MS-BB300 Marine Stereo when a call is received on your cell phone.

AUX — Allows the received call to be broadcast through the AUX 1.

**Note:** This feature may not operate with all available hands-free kits.

Hands free kit must be connected to the TELMUTE input and AUX input.

**ARTWORK** — Enable or disable sending Album Artwork over NMEA2000 network. Disable to reduce data traffic on NMEA2000 network.

**Note:** The MS-BB300 can be completely disconnected from the constant +12V voltage supply (Battery switch) with no settings lost.

**SOURCES** — Use this option to turn on/off the AM source.

For example this is useful if you only wish to listen to FM and do not wish to step through AM when selecting a tuner source.

**Note:** USB/iPod/MTP Device source only available if a device is connected.

**SET DEVICE NAME** — Select `Set Device Name' to give the MS-BB300 a network name of your choice. The name is visible to other devices (Marine Wired Remotes MS-NRX200i) connected to the same network. Rotate the rotary encoder to change the character. Press the rotary encoder to select. Press the `Previous' button to delete characters.

· To save changes press the 'Play' key.

 $\cdot$  To exit without saving any changes: press the Menu key.

**UPDATE – MS-BB300 —** This option is provided for future MS-BB300 software updates.

**MS-NRX200i**: This option is provided for future software updates to remote controls

(MS-NRX200i) attached to your MS-BB300.

**Note:** FUSION recommends updating all remote(s) software via the MS-BB300 at time of installation to ensure compatibility. This can be done via the Update menu. Please refer to your remote manual for more information.

**FACTORY RESET** — The factory reset function will return all settings in the MS-BB300 to the factory default value.

**Warning:** All AM and FM presents are erased. Tuner region is reset to USA. All zones are enabled and zone settings, tone, subwoofer filter settings, source settings and device name are returned to default values.

**ABOUT** — This option displays the MS-BB300 Marine Stereo software version, remote control version and F-Link software versions.

### RADIO OPERATION

### SOURCE SELECTION

Press the 'Source' button and cycle to desired source.

▶ AM → FM → AUX → AUX 2 → iPod → MTP Device → USB → Bluetooth → SiriusXM (USA only) →

Note: Disconnected sources may not be displayed.

### STATION SEARCH

Press 'Play' to cycle between tuning seek modes. r→ Auto → Manual → Preset ¬

#### AUTOMATIC SEEK TUNING

Press 'Play' to cycle to Auto tuning mode. Press the 'Previous' or 'Next' button to scan to the next station.

#### MANUAL SEEK TUNING

Press 'Play' to cycle to Manual tuning mode. Press the 'Previous' or 'Next' button to step up and down the spectrum. Press & Hold the 'Previous' or 'Next' button for fast frequency/channel stepping.

#### PRESET TUNING MODE

Press 'Play' to cycle to Preset tuning mode. Press the 'Previous' or 'Next' button to select previous or next preset.

Note: Preset function is only available when more than one preset has been saved.

### PRESETS

#### **STORING A STATION AS A PRESET**

When listening to a station/channel (AM/FM), press and hold the 'Play' button to store preset. Alternatively: Press the 'Menu' button and select 'Presets'. Select 'Save Current'. Note: There are 15 presets available per band.

#### **VIEW PRESETS**

Press 'Menu' and select 'Presets'. Use the 'Rotary Encoder' to cycle and select a saved preset.

#### **REMOVE PRESET**

Press 'Menu' and select 'Presets'. Select 'Remove Preset'. Select the desired preset or select 'Remove All'.

### **USB OPERATION**

## SOURCE SELECTION

Press the 'Source' button and cycle to USB (only if USB flash drive is connected).

#### PLAYING AUDIO TRACKS FROM USB FLASH DRIVES

You can store audio tracks (MP3, M4A and FLAC formats only) on a USB flash drive for playback. Audio tracks can be stored in folders on the flash drive and selected for playback, as required. The flash drive must be formatted to FAT32 or NTFS (these are the most commonly used flash drive format).

Press the `Menu' button to display the attached devices, then select the folder on your USB flash drive. Turn the encoder to navigate down the folder list and press to select.

**Note:** Press the 'Menu' button to return to the previous menu screen.

PLAY/PAUSE	Play or Pause the track	6
BACK/PREVIOUS	Short Press: Selects previous track Press and Hold: Rewind track	
NEXT/FORWARD	Short Press: Selects next track Press and Hold: Fast-forward track	



### REPEAT

Press the 'Menu' button and select 'Repeat', to repeat all playable tracks within the folder of the current selection. Default: On.

## SHUFFLE

Press the 'Menu' button and select 'Shuffle', to shuffle all playable tracks within the folder of the current selection. Default: Off.

Important: Ensure the USB Device is formatted as Fat32 or NTFS.

### AUX OPERATION

#### CONNECTING AN AUXILIARY AUDIO DEVICE

The AUX RCA plugs are located at the rear of the unit. Connect your auxiliary audio device.

**Note:** You may require an adapter cable to connect your device.

#### ADJUSTING AUX INPUT LEVEL (dB figure)

To allow for the wide range of input levels, the AUX inputs have adjustable input gain (dB). The dB value is displayed on the AUX screen.

- Increase gain (volume) by pressing the Forward key (1dB steps up to 9dB)
- Decrease gain by pressing the Rewind key (1dB steps down to -9dB).

### LISTENING TO YOUR AUXILIARY AUDIO DEVICE

Press 'Source' and cycle to AUX mode.

Start playback on your auxiliary audio device.

• Use both the volume control on your auxiliary device (if available) and the volume control on the FUSION Marine Stereo to set the volume level.

### iPod/iPhone OPERATION

## CONNECTING AN iPod/iPhone

Connect a FUSION compatible Marine Dock to gain the benefits of integrated housing for your iPod or iPhone. Alternatively a certified Apple iPod sync cable can be used to connect your iPod/iPhone to the MS-BB300.

### LISTENING TO AN iPod/iPhone

Press 'Source' button and cycle to iPod. Playback of the iPod/iPhone will start automatically. Only available if a iPod/iPhone is connected.

### iPod/iPhone NAVIGATION

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Press the 'Menu' button to enter the iPod menu. The rotary encoder operates similar to the click wheel on your iPod. Turn to navigate and press to enter.

Note: Press the 'Menu' button to return to the previous menu screen.

PLAY/PAUSE	Play or Pause the track
BACK/PREVIOUS	Short Press: Press once to jump back to start of current track. Press twice to select previous track. Press and Hold: Rewind track

NEXT/FORWARD Short Press: Selects next track Press and Hold: Fast-forward track

### iPod SETTINGS

### REPEAT

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Press the 'Menu' button and select 'iPod Settings', select 'Repeat', → OFF → ONE → ALL

#### SHUFFLE

Press the 'Menu' button and select 'iPod Settings', select 'Shuffle' → OFF → TRACKS → ALBUMS

### F.A.S.T

#### FUSION ALPHA SEARCH TECHNOLOGY

If your iPod contains more than 100 Artists, Songs or Albums you can use F.A.S.T to quickly navigate by letter or number.

**Example:** Press the 'Menu' button and select 'Artists'. Select 'D' and the first 'Artist' beginning with 'D' will automatically highlight. Using the 'Rotary Encoder' you can then scroll up or down from this selection.

### NO iPod CONNECTED

If this appears on the display possible causes are:

- Ensure the iPod/iPhone is correctly connected
- Ensure the cable is not excessively bent
- The iPods battery remains low (refer to iPod manual and charge the battery)
- Reset your iPod/iPhone
- Ensure your iPod/iPhone is on the list of supported models.
- (refer to **www.fusionentertainment.com** for a list of supported models)

### ANDROID (MTP) DEVICE OPERATION

Media Transfer Protocol (MTP) is a standard developed for connecting media (music) devices over USB. It has been adopted on a number of platforms including Android. FUSION currently supports a range of smartphones utilising MTP.

Refer to **www.fusionentertainment.com** for the latest list of supported devices.

### CONNECTING A MTP Device

Connect a FUSION UNI-Dock (MS-UNIDOCK) to gain the benefits of integrated housing and charging for your MTP device. Alternatively your device USB cable can be used to connect to the MS-BB300.

### LISTENING TO A MTP DEVICE

Press 'Source' button and cycle to MTP. Playback will start automatically. Only available if a MTP device is connected.

#### INITIAL SONG TITLE LOADING FROM MTP DEVICES

Following connection to the USB connector, the MS-BB300 will download the full list of song names from the device to create a song title index. This process must be completed before music playback can begin. For devices with large music collections this may take several minutes. The song count will be displayed during this process. Other sources can be selected while this process is underway. The file name download and indexing will continue as a background task.

**Note:** Your entire music collection may not be available for playback. Only audio tracks stored in MP3 or M4A format are indexed.

### MUSIC FOLDER STRUCTURE

FUSION recommends that folders contain no more than 300 files each. Exceeding this limitation may cause the phone to become unresponsive and the FUSION Stereo to reset the USB link to the phone. Music files must be located in a folder using one of the following names. The folder must be located in the root directory of your device.

My Music My\_Music mobile Music

SD cards may be used on devices that support them. Songs may be copied to both the phone's internal memory and the external memory. The rules regarding folder naming apply to both memory types.

### MTP DEVICE NAVIGATION

Press the 'Menu' button to enter the MTP menu. Songs stored in MP3 and M4A format (see note below) can be played on the FUSION Stereo. The FUSION Stereo will display your music collection in groupings of Songs, Albums and Artists allowing you to browse in these categories. In addition to the above groupings your music collection can be browsed according to the folder structure on your device. The root folder for each storage memory on your device memory will be displayed in the Settings menu, for example; PHONE, CARD, etc. Storage card locations on phones are also supported.

**Note:** Different operating systems and phones provide varying levels of support for MTP. Please refer to www.fusionentertainment.com for device compatibility information.

### MTP DEVICE CONTROL

PLAY/PAUSE

Play or Pause the track BACK/PREVIOUS Short Press: Press once to jump back to start of current track Press twice to select previous track. NEXT/FORWARD Short Press: Selects next track



### F.A.S.T

#### FUSION ALPHA SEARCH TECHNOLOGY

If your MTP device contains more than 100 Artists, Songs or Albums you can use F.A.S.T to quickly navigate by letter or number.

Example: Press the 'Menu' button and select 'Artists'. Select 'D' and the first 'Artist' beginning with 'D' will automatically highlight. Using the 'Rotary Encoder' you can then scroll up or down from this selection.

### MTP SETTINGS

To change a setting in the MTP settings menu:

1. Press the Menu key while the MTP Source screen is displayed.

- 2. Turn and then press the Rotary Encoder to select one of the following settings to change.
- Repeat On/Off. Repeat mode is turned on/off (not supported on all devices)
- Shuffle On/Off. Random play shuffle is turned on/off (not supported on all devices)

#### BLUETOOTH OPERATION

Bluetooth is designed to provide audio streaming from a compatible smartphone or media player directly to your MS-BB300.

The Bluetooth supports control (Play/Pause/Next/Back) of the media device from the MSBB300. Song information such as song title, artist name and duration are displayed, depending on the capability of your phone and music application.

The MS-BB300 does NOT provide phone call control. Hands free operation of the phone is not supported from the FUSION stereo.

#### **Discovering the MS-BB300**

To pair with the MS-BB300 for the first time you need to discover it from your Bluetooth compatible device. Please refer to your smartphone or media player user manual to start the Bluetooth discovery mode. Ensure the MS-BB300 is in discoverable mode (see below).

The name of the MS-BB300 in discovery (pairing) mode is the same name given to your MS-BB300. See SET DEVICE NAME in the SETTINGS menu. The default name is MS-BB300. You do not require a PIN number to pair.

### BROWSING MUSIC COLLECTIONS OVER BLUETOOTH NOT SUPPORTED

Browsing music collections from the MS-BB300 is not supported over Bluetooth. Initial song and Playlist selection must be done on the media device. However the FUSION Stereo does provide basic playback control with the Play / Pause, Next and Previous keys. Fast Forward and Rewind functions are not supported.

#### BLUETOOTH DEVICE CONTROL

PLAY/PAUSE	Play or Pause the track	
BACK/PREVIOUS	Short Press: Press once to jump back to start of current track. Press twice to select previous track.	I I
NEXT/FORWARD	Short Press: Selects next track	

**Note:** The availability of song information such as song title, artist name, track duration and album cover artwork is dependent on the capability of your phone and music application. Album cover artwork and Shuffle/Repeat Status icons are not supported over Bluetooth.

### **BLUETOOTH SETTINGS**

To change a setting in the Bluetooth settings menu:

- 1. Press the Menu key while the BT Source screen is displayed.
- 2. Turn and then press the Rotary Encoder to select one of the following;
- List of Paired Bluetooth media devices.

To connect to an active device on the Paired Devices list rotate the rotary encoder to select the device. Press the rotary encoder to select the check box.

The device must be turned on, with Bluetooth on and not connected to another Bluetooth device, otherwise it will not connect.

### **DISCOVERABLE OFF/ON**

Enable this option to make the MS-BB300 discoverable to Bluetooth media devices. Press the encoder to select/deselect the check box.

**Note:** To prevent interruption to audio streaming over Bluetooth it is recommended that the Discoverable feature is turned off after pairing your device to the MS-BB300.

### **REMOVE DEVICES**

Select this option to display the current list of paired devices. Select the device to be removed by rotating and pressing the rotary encoder.

### SiriusXM SATELLITE RADIO

(USA only) - Requires optional SiriusXM Vehicle Connect Tuner (not included)

Only SiriusXM<sup>®</sup> 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.

The MS-BB300 is ready to connect to a SiriusXM Connect Tuner. The SiriusXM tuner is an optional extra that must be purchased separately.

Activating your SiriusXM tuner: You must activate the SiriusXM tuner before you can begin to receive the SiriusXM Radio Service.

The SiriusXM Radio ID is required for activation and can be found by tuning to Channel 0 as well as on the label found on the SiriusXM Connect tuner and its' packaging. The Radio ID does not include the letters I, O, S or F.

Power on your system and make sure that you are receiving good signal, you are able to hear audio on the SiriusXM Preview channel (Channel 1)

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 Update". 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 OPERATION

Press 'Source' to cycle to the SiriusXM Satellite radio source.

Press the 'Menu' button and turn the rotary encoder to select the desired menu option.

#### CHANNELS

Select the desired channel (listed in channel order) and music preference

#### CATEGORY

Select the desired genre type. (The unit will only play the selected option)

#### PRESET TUNING MODE

Press 'Play' to cycle to preset tuning mode. Press the 'Previous' or 'Next' button to select previous or next preset.

Note: Preset function is only available when more than one preset has been saved.

#### PRESETS

Add your channel preset to your favourites list by selecting 'Add Preset' (Maximum 15 channels). Remove channels by selecting 'Remove Preset'. Select 'All' or the individual channel. Exit by pressing the 'Menu' button.

Alternatively: Press and hold the 'Play' button to store favourite.

### PARENTAL CONTROL LOCK

The Parental Control feature allows you to limit access to any SiriusXM channels, including those with mature content. When enabled, the Parental Control feature requires you to enter a passcode to tune to the locked channels

#### **ENABLE ON/OFF**

Select to enable channels to be locked/unlocked

#### PIN #

Turn the 'Rotary Encoder' to select number and press to enter, repeat to enter the 4 digit code. (Factory setting is 0000)

Note: Must be entered before the following items are operational.

#### LOCK / UNLOCK

Select the channel to be locked or unlocked

#### **CHANGE PIN**

Personalise your Pin number. (4 digits max)

#### PIN RESET

When on SiriusXM source, press & hold mute key for 15 seconds. PIN will be reset to '0000'.

### ADDITIONAL FEATURES

### FUSION-Link

FUSION-Link has the ability to fully control on-board FUSION Entertainment systems (Supported models), by utilizing FUSION-Link capable multi-function displays installed at the helm, flybridge or nav station of the vessel, providing integrated entertainment control and a less cluttered console.

You can control one or more FUSION-Link capable stereo units from a single location on the boat with the touch of a button. FUSION-Link operates over existing industry standard networks including NMEA2000 .

Link Zones or manage the entire audio system from the steering station on the boat. The partnered multi-purpose display becomes the portal to which all audio on the vessel is controlled, no matter where on the vessel the stereo is installed. The FUSION-Link equipped stereo can be installed out of sight if space is an issue and users need to visit the unit only to replace removable media.

For a list of FUSION-Link capable products from companies that are partnering with FUSION, please visit www.fusionentertainment.com for further details.

### TOTAL AUDIO CONTROL VIA NMEA 2000

NMEA 2000 is the most popular marine standard for data communication within vessels. It has become the standard for sending navigation and engine management data within vessels. FUSION introduces an industry-first product by incorporating NMEA 2000 functionality in its audio remote control devices. This will enable the user to monitor a series of available NMEA sentences. Visit www.fusionentertainent.com for a full list of supported NMEA sentences

### FUSION MS-NRX2001 REMOTE CONTROL (OPTIONAL ACCESSORY)

The MS-BB300 Marine Stereo can be controlled by MS-NRX200i wired remote controls installed in the audio Zones throughout the vessel. The remote Control has a full-featured user interface. It includes a full size LCD screen and provides full functionality for navigating iPods and iPhones.

The remote control will also serve as an NMEA repeater displaying NMEA navigation data or vessel performance data from other NMEA devices on an existing NMEA 2000 network.

### TROUBLESHOOTING

### FACTORY RESET

The factory reset function will return all settings in the MS-BB300 to the factory default value.

**Warning:** All AM, FM station presets are erased. Tuner region is set to USA. All zones are enabled and zone settings, tone, subwoofer filter settings, source settings and device name are returned to default values.

#### To reset your MS-BB300 to factory default values:

1. Press the Menu Key.

2. Select **Settings** -> **Update.** Select **Factory reset**. All settings will be restored to the factory default. At the completion of the reset process the stereo will automatically power down and restart.

### iPod

#### Why does my FUSION Head unit keep locking up when connected to my iPod/iPhone?

If you are experiencing software lock-ups or your unit freezes:

- Reset your iPod/iPhone (see Apple website from model-specific information). This should resume normal operation.
- Make sure you have the latest version of iTunes and the latest operating software in your iPod/iPhone. It is important to update software when Apple releases new versions. If you are connected via a dock, ensure you are using the correct sleeve and the connection to the Head unit is secure.

**Note:** After any IOS update to your Apple iPhone we recommend resetting the iPhone to ensure correct operation. Press and hold the Sleep/Wake button and the Home button together for at least ten seconds, until the Apple logo appears.

#### Will my iPod/iPhone connect to my FUSION product if the battery is flat?

No. It will take a number of minutes for the Apple product to get a minimum level of charge before it can connect and become operational. Please connect and wait for the unit to initialise.

#### My iPod/iPhone will not connect to the head unit while in a FUSION dock accessory.

If your Head unit displays "Not Connected" while using iPod as input source:

Ensure that you have the latest version of operating software installed in your iPod/ iPhone and the latest iTunes version. To do this, connect your iPod/iPhone to iTunes and it will check and, if necessary, prompt you to download the latest version.

If you are uncertain which iPod model you have, go to **http://www.apple.com/support/** to get the correct model information for your iPod.

# If you are still unable to connect once you have confirmed that you have the latest software or you have updated your iPod/iPhone:

• Reset the iPod/iPhone (see the user manual for your Apple product) and also reset the Head unit (Page 23).

#### If you are still unable to connect:

• Contact your FUSION dealer or contact FUSION via the tech email on the FUSION website.

Problem	Solution
Bluetooth	
Why does my Bluetooth source not display all song information	The availability of song information such as song title, artist name, track duration and album cover artwork is dependent on the capability of your phone and music application. Album cover artwork and Shuffle/Repeat Status icons are not supported over Bluetooth.
My Bluetooth audio is interrupted by short breaks.	Bluetooth performs best with line-of-sight operation. Ensure the music device is not covered or obstructed and is located near the Bluetooth module. To prevent interruption to audio streaming over Bluetooth it is recommended that the Discoverable feature is turned off after pairing your device to the FUSION Stereo.

Problem	Solution
MTP Device	
Why has my MTP device become unresponsive?	FUSION recommends that folders contain no more than 300 files each. Exceeding this limitation may cause the phone to become unresponsive and the FUSION Stereo to reset the USB link to the phone. Note: Different operating systems and phones provide varying levels of support for MTP. Please refer to www.fusionelectronics.com for device compatibility information.
Why can't the FUSION stereo find my music files?	Music files must be located in a folder using one of the following names. The folder must be located in the root directory of your device. My Music My_Music mobile Music

Problem	Solution
SiriusXM	
When I press the tuner source button the SiriusXM screen is not displayed.	Unplug the SiriusXM module and check the pins in the SiriusXM plug are not damaged.
SiriusXM message: `Check Tuner'	<ul> <li>Ensure the SiriusXM module is plugged into the MS-BB300.</li> <li>Ensure the SiriusXM cable has not been damaged.</li> </ul>
SiriusXM message: `Check Antenna'	<ul> <li>Ensure the antenna is plugged into the SiriusXM Tuner module.</li> <li>Ensure the antenna is not damaged.</li> <li>Ensure the antenna cable has not been damaged</li> </ul>
SiriusXM message: `No Signal'	<ul> <li>Ensure the antenna is not damaged.</li> <li>Ensure the antenna has a clear view of the sky and is not obscured.</li> <li>Ensure the antenna cable has not been damaged</li> </ul>
SiriusXM message: `Channel xx Not Available''	<ul> <li>A SiriusXM message informing you that the current channel is unavailable. Possible causes are SiriusXM has removed the channel or your SiriusXM subscription has changed.</li> <li>Contact SiriusXM to update your subscription.</li> <li>Online: Go to www.siriusxm.com</li> <li>Phone: Call 1-866-635-2349</li> </ul>
SiriusXM message: 'Channel xx Unsubscribed'	<ul> <li>Contact SiriusXM to update your subscription.</li> <li>Online: Go to www.siriusxm.com</li> <li>Phone: Call 1-866-635-2349</li> </ul>
SiriusXM message: `Subscription Updated'	<ul> <li>A SiriusXM message informing you that you have either been granted access to or unsubscribed from various channels.</li> <li>Press the Rotary Encoder to clear the message.</li> <li>For more information about your subscription: <ul> <li>Online: Go to www.siriusxm.com</li> <li>Phone: Call 1-866-635-2349</li> </ul> </li> </ul>

### FUSION MARINE ACCESSORIES

#### MARINE ACTIVE SUBWOOFER MS-AB206

Features a down firing bass reflex enclosure and its own internal Active 210 Watt amplifier allowing easy connection to the music source delivering crisp clear low frequency reproduction from any music selection.



#### MARINE 5 CHANNEL AMPLIFIER MS-DA51600

Add more power and increase the music bass level of your FUSION Marine Audio System by connecting a 5-Channel Amplifier. Built for the harsh marine environment with conformal coated PCB.



#### Marine UNI-Dock (MS-UNIDOCK)

The revolutionary UNI-Dock supports the widest array of smart phones, media players and USB devices on the market. The UNI-Dock charges and protects your device from the harsh marine environment. It allows users to enjoy on-the-water entertainment from an extensive range of Apple and supported MTP (Media Transfer Protocol) enabled Android smartphones.



## CONNECTING TO AN EXISTING NMEA 2000 NETWORK

Connect the FUSION MS-BB300 Marine Stereo to an existing NMEA 2000 network with FUSION optional accessories:

MS-BB300 NMEA 2000 Drop Cable: CAB000863

FUSION NMEA 2000 T-Connector: CAB000581

#### MARINE WIRED REMOTE MS-NRX200i

The Marine Wired Remote Control extends the capabilities of our Stereo by enabling local control of the audio in each zone of your vessel. Up to three remote's can be linked to the Stereo, providing true system flexibility.



#### MARINE ZONE AMPLIFIER MS-AM702

The Marine 2x70 Watt D-Class Zone Amplifier is designed to support the Multi-Zone technology of the Marine Stereo. The Zone Amplifier is small, enabling discrete installation and when combined with the Marine Stereo provides the platform for a True Multi-Zone audio system.



### SPECIFICATIONS AND LICENSING

#### SPECIFICATIONS

#### DIMENSIONS

**OPFRATING** 

TEMPERATURE:

NMFA 2000 L FN-

Depth 66mm - 2.63" Width 235mm - 9.25" Height 99.6mm - 3.94"

#### **OPERATING VOLTAGE:**

FUSE RATING: OUTPUT POWER-SPEAKER IMPEDANCE: PRE – OUTPUT VOLTAGE: WFIGHT. WATER RESISTANCE:

10.8 - 16VDC Negative ground 15 Amp 50 Watts x 4 (Max) 4 Ohms per channel 3V 0.88kg (1.96 lb.) IPX3: Protected against spraying water when tilted up to 60 degrees vertically. 0 to 50 °C (from 32 to 122°F) STORAGE TEMPERATURE: -20 to 70 °C (from -4 to 158°F) 1 (50 mA)

**TUNING RANGE** 

#### **EUROPE AND AUSTRALASIA:**

FM Radio Frequency Range: 87.5 – 108 MHz Frequency step: 50 kHz

#### USA

FM Radio Frequency Range: 87.5 - 107.9 MHz Frequency step: 200 kHz

#### JAPAN

FM Radio Frequency Range: 76 - 90 MHz Frequency step: 50 kHz

AM Radio Frequency Range: 522 - 1620 kHz Frequency step: 9 kHz

AM Radio

9 kHz

AM Radio

10 kHz

Frequency Range:

522 – 1620 kHz

Frequency step:

Frequency Range:

530 – 1710 kHz

Frequency step:

### FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

· Reorient or relocate the receiving antenna

• Increase the separation between the equipment and receiver

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

• Consult the dealer or an experienced radio/TV technician for help.

#### LICENSING

Apple, the Apple logo, iPod, iPhone, 'Made for iPod' and 'Made for iPhone' are Trademarks of Apple Computer, Inc., registered in the U.S. and other countries. Sirius, XM and all related marks and logos are trademarks of SiriusXM Radio Inc. All rights reserved.

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### NOTES

### NOTES

### NOTES



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