

**USER / INSTALLATION MANUAL** 

## **MARINE STEREO**

MS-RA200



## **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.

#### **FCC COMPLIANCE STATEMENT**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- » This device may not cause harmful interference, and
- » This device must accept any interference received, including interference that may cause undesired operation.

#### **RECORD YOUR PRODUCT DETAILS HERE:**

| Serial Number      |       |
|--------------------|-------|
| Date Of Purchase   |       |
| Affix Receipt Here | ••••• |

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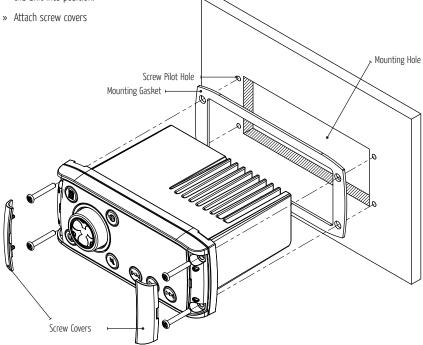
## **INSTALLATION**

## IF ANY MODIFICATION TO THE VESSEL IS REQUIRED, SUCH AS DRILLING HOLES ETC FUSION RECOMMENDS CONSULTATION WITH YOUR BOAT DEALER OR MANUFACTURER BEFOREHAND.

- » Create mounting hole for product and drill Screw Pilot Holes.
- Refer to mounting template included with product or download from www.fusionelectronics.com
- » Fit mounting gasket
- » Insert the unit into the mounting hole

» Use the supplied 4 x self tapping screws, to affix the unit into position.

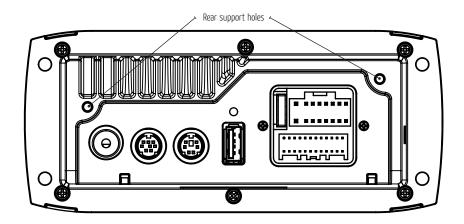
**Note:** Appropriate mounting is very important to ensure correct operation. Select a location that allows both free/open airflow around rear of chassis, whilst minimizing exposure to moisture. Allow adequate room at the rear of the unit for the cable looms (approx 2").



#### **ELECTRICAL WIRING**

Caution: The MS-RA200 is designed for vessels with a 12V DC Negative ground electrical system

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In some cases a rear support strap (not supplied) may be required. Please use the two holes indicated above, to attach the strap using two 8 gauge x 8mm self-tapping screws (not supplied).

#### INSTALLATION WARNING

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

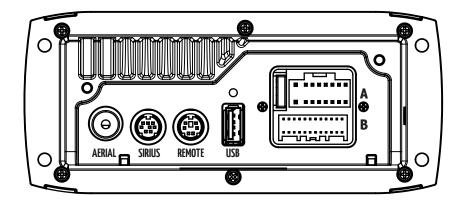
When wiring the MS-RA200, ensure that the wires are away from sharp objects and that rubber grommets and insulated bungs are used when routing the wiring. Ensure that when connecting the wires to the speakers and audio system, the terminals and connections are protected from shorting to each other.

**Note:** Ensure the Aerial 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 an independent am/fm marine antenna (ground independent).

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

## **WIRING DIAGRAM**



#### **A CABLE**

| YELLOW              | POWER (+)                |
|---------------------|--------------------------|
| RED                 | IGNITION (+12V switched) |
| BLACK               | GROUND (-)               |
| 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 (-)     |
| ORANGE              | 2 WIRE REMOTE            |
| ORANGE/WHITE STRIPE | 2 WIRE REMOTE            |
| BROWN               | DIM (+12V switched)      |
| BLUE/WHITE STRIPE   | AMPLIFIER ON             |
| BROWN/WHITE STRIPE  | TEL MUTE / INTERUPT      |

#### **B CABLE**

| WHITE RCA (Grey wire)   | AUX-IN (L)           |
|-------------------------|----------------------|
| RED RCA (Grey wire)     | AUX-IN (R)           |
| ORANGE RCA (Black wire) | SUB-OUT              |
| ORANGE RCA (Black wire) | SUB-OUT              |
| WHITE RCA (Black wire)  | LINE-OUT ZONE 1 ( L) |
| RED RCA (Black wire)    | LINE-OUT ZONE 1 (R)  |

Note: Sub + Lineout volume control is linked to Zone 1.

#### AERIAL CONNECTION

Connect an AM/FM marine antenna or FM/VHF splitter.

#### **USB/iPod CONNECTION**

Connect a USB storage device (not included) or the MS-DKIP / MS-DKIPUSB Marine Docks for iPod (not included) or a certified Apple iPod lead (not included).

**SIRIUS SATELLITE RADIO** (For use in USA only)
Connect to SiriusConnect™ tuner (not included)

WIRED REMOTE (MS-WR600)

Connect a marine wired remote to the CANbus system connector.

Up to 3 remotes can be connected to the system.

#### **A CABLE**

| DESCRIPTION                        | COLOUR     |
|------------------------------------|------------|
| Battery +12VDC                     | Yellow     |
| Ignition +12V switched             | Red        |
| Negative Ground                    | Black      |
| Remote Amplifier Turn On           | Blue/White |
| DIM +12V switched                  | Brown      |
| Mute / Tele-Interupt -12V switched | Brown/Whit |

#### DIM

Connect to vessel lighting sytem to dim LCD and button illumination when vessel lights are turned on.

#### 2 WIRE REMOTE

Connect to FUSION 2 Wire Remote (not included).

#### TELE MUTE / INTERUPT

Connect to handsfree kit to either mute the stereo or switch to AUX to hear call.

**Note:** If 'turn on' from ignition is not required, the +12V ignition (Red) and +12V battery (Yellow) can be connected together.

#### **B CABLE**

#### **AUX INPUT**

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

#### SUBWOOFER OUT (DUAL MONO)

Connect to an amplifier, volume control linked to Zone 1. (Orange + Orange)

#### LINEOUT ZONE 1

Connect to an amplifier, volume control linked to Zone 1. (White = L, Red = R).

## **BUTTON DESCRIPTION**





#### **ROTARY ENCODER**

#### Turn

To adjust volume, move up or down a menu structure, or adjust a specific setting.

#### Press

To select a highlighted option, confirm a setting. Press to step through each zone for volume adjustment.

#### Press and Hold

For quick access to subwoofer level adjustment



#### **POWER**

Press to turn the unit ON/OFF.

#### Press and Hold

Press and hold for 10 seconds to 'Reset' the stereo.



#### MENU

Press to enter Menu System. Press to return to previous screen.

#### Press and Hold

To exit the menu system.



#### BACK/PREVIOUS

#### Short Press

iPod/USB - Select the previous track. AM/FM/Sirius/VHF - Start tuning down the frequency spectrum. (Auto/Manual tuning mode) or previous preset (Preset mode).

#### Press and Hold

VHF - Fast channel stepping.

## iPod/USB - Rewind the current track.

#### FORWARD/NEXT

#### Short Press

iPod/USB - Select the next track. AM/FM/Sirius/VHF - Start tuning up the frequency spectrum. (Auto/Manual tuning mode) or next preset (Preset mode).

#### Press and Hold

iPod/USB - Fast forward the current track. VHF - Fast channel stepping.



#### SOURCE

Press to cycle through sources AM - FM - VHF - iPod - USB - AUX - SIRIUS (USA only)



#### PLAY/PAUSE

iPod/USB - Pause / resume the current

AM/FM/Sirius/VHF - Switch between Auto/Manual and Preset tuning mode.

#### Press and Hold

AM/FM/Sirius/VHF - Store the current station as a Preset.



#### MUTE

Mutes sound in all zones.

## **GENERAL OPERATION**

#### **INITIAL SETUP**

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

**Important:** The Marine Region must be selected for correct operation. Default - USA.

#### **ADJUSTING THE VOLUME**



Turn the 'Rotary Encoder' to adjust the volume.

#### **ZONE VOLUME**

Press the 'Rotary Encoder' to step through zones.

➤ All zones → Zones 1 → Zone 2 →

#### **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.

#### TONE

Adjust the treble and bass settings. Press the 'Rotary Encoder' to cycle between bass and treble selection.

#### LCD

Press the Rotary Encoder to cycle between Contrast and Brightness. Turn to adjust.

#### **KEY SOUND**

Press the Rotary Encoder to cycle between 'On' and 'Off'.

#### **ZONE SETUP**

The MS-RA200 Marine Stereo features Multi-Zone technology which enables 2 '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.

#### SUBWOOFFR

Select 'Settings' then 'Zones' then 'Subwoofer'.

Select 'Sub Limit' to set the desired maximum subwoofer output volume.

Select 'Sub Filter' to select the desired cut-off frequency. 55hz - 85hz - 120hz - 160hz

Default: 85hz

**Note:** Press and Hold the 'Rotary Encoder' for quick access to subwoofer level adjustment

#### LANGUAGE

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

#### POWER SAVE

Press the Rotary Encoder to cycle between 'On' and 'Off'.

**OFF** LCD/Buton backlight on constantly

LCD/Button backlight turns off after one minute of non-activity

#### TUNER REGION

Select the appropriate Region.

Europe → USA → Japan → Australasia →

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

#### MARINE REGION

Select the appropriate VHF Marine Region.

■ USA → Canada → International → Important: The correct Marine Region must be selected.

Default - USA.

**Note:** The MS-RA200 can be be completely disconnected from the constant +12V voltage supply (Battery switch) with no settings lost.

## **RADIO OPERATION**

#### **SOURCE SELECTION**

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

→ AM → FM → VHF → SIRIUS (USA only) →

#### STATION SEARCH

Press 'Play' to cycle between tuning seek modes.



#### **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.

#### 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 frequency (AM/FM/VHF), 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'. Select 'View 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.

#### REMOVE ALL PRESETS

Press 'Menu' and select 'Presets'. Select 'Remove All Presets'.

#### **VHF OPERATION**

#### **SQUELCH**

Press 'Menu' and select 'Squelch'. Increase Squelch to filter out nearby chatter and decrease Squelch to receive all.

#### SCAN

Press 'Menu' and select 'Scan'.
The Marine Stereo will scan the VHF preset stations
for an active channel

It remains on the channel until the transmission ends, then resumes scanning.

**Note:** If the Squelch control is adjusted so you can constantly hear a hissing sound the unit will not scan correctly.

## **USB/MP3 OPERATION**

#### SOURCE SELECTION

- » Press the 'Source' button and cycle to USB.
- » Press 'Menu' and select 'DISK'.

**Note:** We reccommend you name your USB device allowing the device name to be displayed. Default name of a connected device is 'DISK'.

» Navigate USB device file structure and select Track to begin playback

#### 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 Fat 32 format.

## **AUX OPERATION**

## CONNECTING AN AUXILIARY AUDIO DEVICE

- » The Left & Right AUX RCA plugs are located on accessory cable 'B' at the rear of the unit.
- » Connect your auxiliary audio device. **Note:** You may require an adapter cable to connect your device.

## 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 Marine Dock for iPod (MS-DKIP or MS-DKIPUSB) to gain the benifits of integrated housing for your iPod or iPhone. Alternativily a certified Apple iPod cable can be used to connect your iPod/iPhone to the MS-RA200.

#### LISTENING TO AN iPod/iPhone

Press 'Source' button and cycle to iPod mode. Playback of the iPod/iPhone will start automatically.

#### iPod/iPhone NAVIGATION

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:** 

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 'Preferences', select 'Repeat'.

OFF -- ONE -- ALL

#### **SHUFFLE**

Press the 'Menu' button and select 'Preferences', select 'Shuffle'.



#### F.A.S.T FUSION ALPHA SEARCH TECHNOLOGY

If your iPod contains more than 50 Artists, Songs or Albums you can use FA.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.

#### F.A.S.T THRESHOLD

The threshold (number of items) at which point the Alpha Search screen appears for iPod menus can be changed. To change the threshold, navigate as follows - press the 'Menu' button and select 'Setup', then 'Searching'. Select your desired item number threshold.



#### **VIDEO PLAYBACK**

**Note:** Requires the optional FUSION Marine Portable Media Device Dock (MS-DKIPUSB). Featuring composite video out which enables iPod/iPhone video playback on a compatible monitor or television.

Press the 'Menu' button to enter the iPod/iPhone menu. Select 'Videos' and select video to start playback.

#### **SUBTITLES**

Press 'Menu' and select 'Preferences'. Select 'iPod Video' then 'Subtitles'.



#### **DISABLE SOURCES**

For ease of navigation some sources (AM, AUX, VHF, SIRIUS) can be turned off so that they no longer display when toggling through source screens.

#### **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 vour iPod/iPhone

## **SIRIUS SATELLITE RADIO**

USA only - SIRIUS TUNER NOT INCLUDED

#### **ACTIVATING YOUR SIRIUS TUNER**

You must activate the SIRIUS tuner before you can begin to receive the SIRIUS Satellite Radio Service.

In order to activate your radio subscription, you will need the SIRIUS ID (SID) which uniquely identifies your tuner. The 12 digit SID is displayed on the LCD on initialization. The Marine Stereo will display the SID on Channel O.

Power on your system and make sure that you are receiving good signal, you are able to hear audio on the SIRIUS Preview channel (Ch-184)

**Note:** Have your credit card handy and contact SIRIUS via the internet at https://activate.sirius.radio.com/ and follow the prompts to activate your subscription. You can also call SIRIUS toll-free at 1-888-539-SIRIUS (1-888-539-7474) Once activated, you will be able to begin enjoying SIRIUS Satellite Radio's digital entertainment and can tune to other channels.

#### **SIRIUS OPERATION**

Press 'Source' to select Sirius Satellite radio source.

#### **SIRIUS NAVIGATION**

Press the 'Menu' button and navigate the functions.

#### 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 30 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 MODE**

#### **FNABLE 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

#### SKIP / UN-SKIP

Select the channel to be bypassed

#### CHANGE PIN

Personalise your Pin number. (4 digits max)

#### PIN RESET

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

## **ZONE OPERATION**

The MS-RA200 Marine Stereo features Multi-Zone technology which enables 2 'Zones' with independent volume control.

#### **ZONE SETUP**

Press the 'Menu' button and select 'Settings'. Select 'Zones' then the Zone you wish to setup.

#### **VOLUME LIMIT**

Select 'Volume Limit' to set the desired maximum output volume for each individual Zone.

#### BALANCE

Select 'Balance' to adjust the balance from left to right.

#### **SUBWOOFER**

Adjust the sub limit and filter.

#### SUB FILTER

Press the 'Menu' button and select 'Zones'. Select 'Subwoofer' then 'Sub Filter'. Select the desired frequency. 80hz - 120hz - 160hz - 0FF

#### SUB LIMIT

Press the 'Menu' button and select 'Zones'. Select 'Subwoofer' then 'Sub Limit'. Select the desired maximum subwoofer output volume.

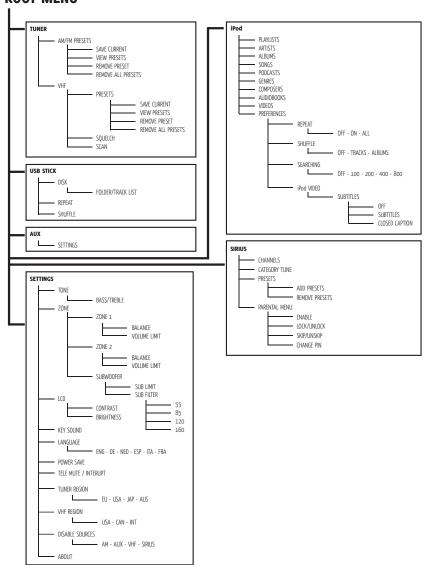
**Note:** Press and Hold the 'Rotary Encoder' for quick access to subwoofer level adjustment.

**Note:** Subwoofer and Lineout volume control is linked to Zone 1.

# **O18**TROUBLESHOOTING

## **MENU STRUCTURE**

#### **ROOT MENU**



## **TROUBLESHOOTING**

#### **RESET**

Should the stereo become unresponsive. Follow the below steps:

- » Press and hold the 'Power' button for 10 seconds to reset the stereo.
- » Reset your iPod/iPhone
- » Remove all power for 5 minutes and then reconnect.
- » If you are unable to correctly tune to radio stations, check you have the correct tuner region selected.

## Allow at least 37mm 130mm (1-7/16") for cables at 5-1/16" rear of unit. 130mm 5-1/16 93mm 3-5/8" 29mm 1-1/8"

# 157mm 6-3/16"

## **SPECIFICATIONS AND LICENSING**

#### **SPECIFICATIONS**

**CHASSIS DIMENSIONS** Depth 93mm - 3-5/8"

Width 130mm - 5-1/16"

Height 50mm - 2"

**FACE PLATE DIMENSIONS** Depth 29mm – 1-1/8"

Width 157mm - 6-3/16" Height 68mm - 2-11/16"

**OPERATING VOLTAGE:** 10 – 16VDC Negative ground

**FUSE RATING:** 15 Amp

**OUTPUT POWER:** 50 Watts x 4 (Max)

**SPEAKER IMPEDANCE:** 4 Ohms per channel

**PRE – OUTPUT VOLTAGE:** 3V

#### **LICENSING**

Apple, the Apple logo, iPod, iPhone, 'Made for iPod' and 'Works with iPhone' are Trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

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#### **TUNING RANGE**

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

FM Radio
Frequency Range:
87.5 - 108 MHz
Frequency step:
50 kHz
Frequency Step:
50 kHz

AM Radio
Frequency Range:
522 - 1620 MHz
Frequency step:
50 kHz

AM Radio
Frequency Range:
Frequency Rang

USA

FM Radio
Frequency Range:
87.5 – 107.9 MHz
Frequency step:
200 kHz
FF Radio
AM Radio
Frequency Range:
530 – 1710 MHz
Frequency step:
10 kHz

JAPAN

FM Radio AM Radio
Frequency Range: Frequency Range:
76 – 90 MHz 522 – 1620 MHz
Frequency step: Frequency step:
50 kHz 9 kHz

#### **VHF TUNING RANGE**

#### All Regions:

Frequency Range: 156 – 164 MHz







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## **FUSION MARINE ACCESSORIES**

## MARINE DOCK FOR iPod MS-DKIP



Connect a Marine Dock for iPod (MS-DKIP) to provide an integrated housing for your iPod or iPhone, protecting them from the harsh marine environment. The dock

can be flush mounted or wall mounted.

## MARINE WIRED REMOTE MS-WR600



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 PORTABLE MEDIA DEVICE DOCK MS-DKIPUSB



Connect a Marine Portable Media Device Dock (MS-DKIPUSB) to provide an integrated housing for your iPod or iPhone, protecting them from the

harsh marine environment. Video playback from your iPod/iPhone and two USB ports for portable flash drive playback. The dock can be flush or wall mounted.

## MARINE ZONE AMPLIFIER MS-AM702



The Marine 2x70
Watt D-Class Zone
Amplifier is designed
to support the MultiZone 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.

## MARINE ACTIVE SUBWOOFER MS-AB108



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 2 CHANNEL AMPLIFIER FM-402



Add more power and increase the bass level of your music of your FUSION Marine Audio System by

connecting a 2-Channel Amplifier. Built for the harsh marine environment with conformal coated PCB and stainless steel end panels.



### www.fusionelectronics.com

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