FUSION®
MS-RA70NSX

OWNER'S MANUAL

ENGLISH

FUSIONENTERTAINMENT.COM

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Getting Started

Stereo Controls

Dial ①	• Turn to adjust the volume. • Press to switch between zones. • Press and hold for at least one second to adjust the subwoofer levels. • Turn to move through the menus or adjust a setting. • Press to select the highlighted option.
	• Press to open a menu. • Press to return to the previous screen or menu.
	Press to change the source (*Selecting a Source*, page 1).
⏮	• Press to skip to the previous track, when using an applicable source. • AM or FM source: ◦ Press to tune to the previous station. ◦ Hold for faster tuning (manual mode only). • AUX source: Select to decrease the gain for the connected source. • SIRIUSXM (in Live Mode) source: ◦ Press to tune to the previous channel, category, or preset. ◦ Hold for faster tuning. • SIRIUSXM (in Replay Mode) source: ◦ Press to skip to the previous track. ◦ Hold to rewind the current track.
⏭	• Press to skip to the next track, when using an applicable source. • AM or FM source: ◦ Press to tune to the next station. ◦ Press and hold for faster tuning (manual mode only). • AUX source: Press to increase the gain for the connected source. • SIRIUSXM (in Live Mode) source: ◦ Press to tune to the next channel, category, or preset. ◦ Hold for faster tuning. • SIRIUSXM (in Replay Mode) source: ◦ Press to skip to the next track, if applicable. ◦ Hold to fast-forward the current track, if applicable.
	• Press to turn on the stereo. • When the stereo is on, press to mute the stereo. • Press and hold to turn off the stereo.
⏯	• Press to pause or resume. • AM or FM source: ◦ Press to cycle through the tuning modes: auto, manual, and presets (when two or more presets are saved). ◦ Press and hold to save this station as a preset. • SIRIUSXM source: ◦ Hold to switch between Replay Mode and Live Mode (*Using Replay Mode*, page 4). ◦ Replay Mode: press to pause and play the channel. ◦ Live Mode: Press to cycle through the tuning modes: manual, category, and presets (when two or more presets are saved).

Using the Dial to Select Items

You can use the dial to highlight and select items on the screen.

- Turn the dial to highlight an item on the screen.
- Press the dial to select the highlighted option.

Selecting a Source

1. Select .
2. Select an option:
   - Turn the dial to highlight a source.
   - Select repeatedly to highlight a source.
3. Press the dial to select the source.

Entering Text

You can enter text to change some settings field values on this device.

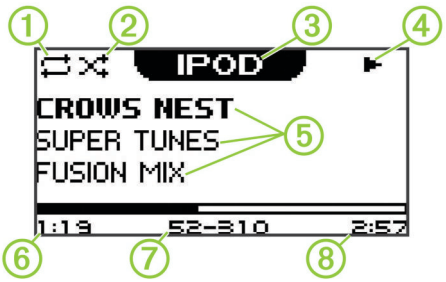
1. In a settings field that allows you to enter text, select ⏮ to erase the existing characters.
2. Use the dial to choose a letter, and press the dial to select it.
3. Add additional letters to finish entering the text.
4. Select ⏯ to save the new text.

Adjusting the Backlight Brightness and Contrast

1. Select > **SETTINGS** > **LCD**.
2. Press the dial to select brightness or contrast.
3. Adjust the brightness or contrast.
4. Select to exit the menu.

Stereo Screen

The information displayed on the stereo screen varies depending on the source selected. This example shows the stereo playing a track on an iPhone® mobile digital device.



①	Repeat status icon
②	Shuffle status icon
③	Source
④	Play status icon
⑤	Track details (if available)
⑥	Elapsed time
⑦	Current track number out of total number of tracks in the playlist (if available)
⑧	Track duration

Adjusting the Volume

1. Use the dial to adjust the volume.
2. If necessary, press the dial to switch between zones.

   TIP: To control all zones at the same time, press the dial until all zones are highlighted.

Adjusting the Tones

1. Select > **SETTINGS** > **TONE**.
2. Use the dial to adjust the level.
3. Press the dial to switch between **BASS**, **MID**, and **TREBLE**.

Speaker Zones

You can group speakers in one area into speaker zones. This enables you to control the audio level of the zones individually. For example, you could make the audio quieter in the cabin and louder on deck.

Zones 1 and 2 are powered by the on-board, Class AB amplifier. To use the two line outputs and the two subwoofer outputs, you must connect external amplifiers.

You can set the balance, volume limit, and name for each zone. You can set the subwoofer level for zone 1.

Setting up Speaker Zones

1. Select ☰ > **SETTINGS** > **ZONE**.
2. Select a zone.
3. Select one or more options:

   NOTE: Not all options are available for all zones.

   - To link zones 1 and 2, select **LINK TO ZONE 1** to fill the option button (zone 2 only).
   - To adjust the right and left speaker balance of this zone, select **BALANCE**, and use the dial to set the balance.
   - To limit the maximum volume output of this zone, select **VOLUME LIMIT**, and use the dial to set the limit.
   - To set the subwoofer filter, select **SUB FILTER**, and use the dial to set the filter (zone 1 only).
   - To set the subwoofer level, select **SUB LEVEL**, and use the dial to set the level (zone 1 only).

     TIP: To open the subwoofer level from any screen, press and hold the dial for three seconds.
   - To give the zone a specific name, select **SET ZONE NAME** (*Entering Text*, page 1).

Linking Zones

Linking zones allows you to keep the volume levels of two zones synchronized. Adjusting the volume of either of the linked zones affects both zones.

1. Select ☰ > **SETTINGS** > **ZONE** > **ZONE 2**.
2. Select **LINK TO ZONE 1**.

When zones 1 and 2 are linked, ✚ appears between zones 1 and 2 on the volume screen.

NOTE: After zones 1 and 2 are linked, you cannot adjust the volume of each zone individually.

Adjusting the Subwoofer Filter

You can use the subwoofer filter setting to control the subwoofer cutoff frequency, which can enhance the blend of the sound produced by the speakers and the subwoofer. Audio signals above the selected frequency are not passed to the subwoofer. The setting applies to both subwoofer outputs.

1. Select ☰ > **SETTINGS** > **ZONE** > **ZONE 1** > **SUB FILTER**.
2. Select a frequency.
3. Press the dial to save the selection.

Media Player Connection

⚠ CAUTION

Always disconnect your media player from the stereo when not in use and do not leave it in your vessel. This helps reduce the risk of theft and damage from extreme temperatures.

Do not remove the media player or use your stereo in a distracting manner while operating the vessel. Check and obey all marine laws in association with use.

The stereo accepts a variety of media players, including smartphones and other mobile devices. You can connect a compatible media player using a Bluetooth® wireless connection or a USB connection to the USB port.

USB Device Compatibility

You can use a USB flash drive or the USB cable included with your media player to connect a media player or mobile device to the USB port.

The stereo is compatible with iAP2 Apple® devices such as the iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, and iPod touch® (5th and 6th generation).

The stereo is compatible with Android™ devices that support the Android Open Accessory (AOA) protocol.

NOTE: The stereo is not compatible with Android devices in MTP or PTP mode. See the instructions for your Android device to connect using AOA, if necessary.

The stereo is compatible with media players and other USB mass storage devices, including USB flash drives. Music on USB drives must meet these conditions:

- The USB mass storage device must be formatted using the FAT32 file system.
- The music files must be formatted as MP3 files.
- Each folder on the storage device can contain a maximum of 250 MP3 files.

Connecting a USB Device

You can connect a USB device to the USB port on the stereo.

1. Locate the USB port on the back of the stereo.
2. Connect the USB device to the USB port.
3. Select the USB source.

Connecting an Auxiliary Device

You can connect various auxiliary devices to the stereo. These devices have either RCA connectors, a line output, or a headphone output jack.

1. Locate the auxiliary connectors on the wiring harness.
2. If necessary, connect an RCA-to-3.5 mm adapter cable to the auxiliary device.
3. Connect the auxiliary device to the **AUX IN** RCA connectors on the wiring harness.
4. Select the **AUX** source.

Adjusting the Gain for an Auxiliary Device

You can adjust the gain for a connected auxiliary device to achieve a volume level similar to that of other media sources. You can adjust the gain in 1 dB increments.

1. Select an auxiliary source.
2. Select an option:
   - To increase the gain, select ⏭.
   - To decrease the gain, select ⏮.

   NOTE: To achieve the best audio quality when using a portable media player with headphone output, it may be necessary to adjust the volume control on the media player, instead of adjusting the gain.

Connecting to a Garmin® Watch

For a list of a compatible Garmin watches, go to www.fusionentertainment.com.

For more information about the watch, see the watch manual at www.garmin.com/manuals.

1. Following the instructions in the watch manual, install the FUSION-Link Lite™ app from the Connect IQ™ store onto the watch.
2. On the stereo, select the **BT** source.
3. Select ☰ > **DISCOVERABLE**.

   The stereo remains discoverable for two minutes.
4. Bring the watch within 3 m (10 ft.) of the stereo.

   NOTE: Stay 10 m (33 ft.) away from other ANT® devices while pairing.

5 Open the FUSION-Link Lite app on the watch.

The first time you open the app on the watch, the watch automatically pairs with and connects to the stereo. If you need to pair to another stereo, in the FUSION-Link Lite app, select **Settings** > **Pair new**.

6 Control the audio playback using the FUSION-Link Lite app on the watch.

After the devices are paired, they connect automatically when they are turned on, within range, and the app is open on the watch.

Bluetooth Device Playback

You can pair the stereo to up to eight Bluetooth media devices.

You can control the playback using the keys, but you cannot browse the music collection. You should select the song or playlist on the media device.

The availability of song information such as song title, artist name, and track duration depends on the capability of the media player and music application. The shuffle and repeat status icons are not supported over Bluetooth wireless technology.

Connecting a Compatible Bluetooth Device

You can play media from a compatible Bluetooth device using the Bluetooth wireless connection.

1 Select the Bluetooth source.

2 Select ☰ > **DISCOVERABLE** to make the stereo visible to your compatible Bluetooth device.

NOTE: The stereo is discoverable for only two minutes to prevent interruption to audio streaming over Bluetooth wireless. If more than two minutes pass before you connect a compatible device, you must repeat this step.

3 Enable Bluetooth on your compatible Bluetooth device.

4 Bring the compatible Bluetooth device within 10 m (33 ft.) of the stereo.

5 On your compatible Bluetooth device, search for Bluetooth devices.

6 Select the stereo from the list of detected devices.

7 Follow the on-screen instructions to pair and connect to the discovered stereo.

When pairing, your compatible Bluetooth device may ask you to confirm a code on the stereo. The stereo does not display a code, but it does connect correctly when you confirm the message on the Bluetooth device.

8 If your compatible Bluetooth device does not immediately connect to the stereo, repeat steps 1 through 7.

Bluetooth Range Information

The stereo and Bluetooth wireless devices have a range of 10 m (33 ft.). For optimal performance, the Bluetooth wireless device should also have a clear line of sight to the stereo.

Selecting a Different Bluetooth Source

When you have more than one Bluetooth device paired to the stereo, you can select a different source when needed. You can pair the stereo with up to eight Bluetooth devices.

1 With the **BLUETOOTH** source selected, select ☰.

2 Select a Bluetooth device.

Bluetooth Source Settings

With the BLUETOOTH source selected, select ☰.

DISCOVERABLE: Allows the stereo to be visible to Bluetooth devices. This setting turns off automatically after two minutes to prevent possible interruption to audio after pairing a Bluetooth device to the stereo.

REMOVE DEVICE: Removes the Bluetooth device from the stereo. To listen to audio from this Bluetooth device again, you must pair the device again.

USB Device Playback

You can connect various USB media players, USB flash drives, and smartphones to the stereo. How you access the USB source depends on the type of connected media player or smartphone.

Media Player	Source Selections
Android device	ANDROID
Apple device	IPOD
USB flash drive	USB
MP3 media player (as a mass-storage device)	USB **NOTE:** If your MP3 media player does not support mass-storage when connected using USB, you must connect it to the stereo as an auxiliary device (*Connecting an Auxiliary Device*, page 2).

NOTE: The availability of song information such as song title, artist name, and track duration depends on the capability of the media player and music application.

Controlling Music Playback on a Connected Smartphone or Media Player

1 Connect a compatible smartphone or media player to the stereo using USB or Bluetooth (if available).

2 Select the appropriate source on the stereo.

3 Launch a music application on the connected smartphone or media player, and begin playback.

You can use the stereo controls to select, play, pause, and skip tracks.

Controlling Music Playback on a USB Flash Drive

1 Connect a compatible USB flash drive or media player to the stereo.

2 Select the **USB** source.

3 Select ☰.

4 Select the name of the USB drive to view the file structure of the USB flash drive or media player.

5 Select a song to begin music playback.

Shuffling Songs

The shuffle feature is available on the USB source only.

NOTE: The shuffle feature is controlled by the music application on connected Apple and Android devices, if supported by the application.

1 From the **USB** source, select ☰.

2 Select **SHUFFLE**.

Setting a Song to Repeat

The repeat feature is available on the USB source only.

NOTE: The repeat feature is controlled by the music application on connected Apple and Android devices, if supported by the application.

1 From the **USB** source, select ☰.

2 Select **REPEAT**.

Radio

To listen to AM or FM radio, you must have a suitable marine AM/FM antenna properly connected to the stereo and be within range of a broadcasting station. For instructions on connecting an AM/FM antenna, see the stereo installation instructions.

To listen to SiriusXM® radio, you must have the appropriate equipment and subscriptions *SiriusXM Satellite Radio*, page 4. For instructions on connecting a SiriusXM Connect Vehicle Tuner, see the stereo installation instructions.

Setting the Tuner Region

You must select the region you are in to receive AM and FM stations properly.

If you are connected to a compatible SiriusXM tuner and antenna, and have a subscription (USA only), you must select the region you are in to receive SiriusXM stations properly.

NOTE: SiriusXM is not available in all regions.

1. Select ▤ > **SETTINGS** > **TUNER REGION**.
2. Select the region you are in.

Changing the Radio Station

1. Select an applicable source, such as **FM**.
2. Select ⏯ repeatedly to move through the tuning modes, and select an option:
   - Select **AUTO** to scan and stop on the next available station.
   - Select **MANUAL** to select a station manually.
   - Select **PRESET** to select a saved station preset.
3. Select ⏮ or ⏭ to tune to the station.

   When in MANUAL tuning mode, you can hold ⏮ or ⏭ to quickly advance through the stations.

Presets

You can save your favorite AM stations and FM stations as presets for easy access.

You can save your favorite SiriusXM channels if you are connected to an optional SiriusXM tuner and antenna.

Saving a Station as a Preset

1. With an applicable source selected, tune the stereo to a station.
2. Select ▤ > **PRESETS**.
3. Select **SAVE CURRENT**.

TIP: You can quickly save the selected station as a preset by holding ⏯.

Selecting a Preset from a List

Before you can select a preset from a list, you must save at least one station as a preset.

1. Select the applicable source.
2. Select ▤ > **PRESETS**.
3. Select a preset from the list.

Removing Presets

1. With an applicable source selected, select ▤ > **PRESETS** > **REMOVE PRESET**.
2. Select an option:
   - To remove one preset, select the preset.
   - To remote all presets, select **REMOVE ALL PRESETS**.

SiriusXM Satellite Radio

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, go to www.siriusxm.com.

Enabling the SiriusXM Source

You must enable the SiriusXM source before you can listen to SiriusXM Satellite Radio.

Select ▤ > **SETTINGS** > **TUNER REGION** > **USA**.

Locating the SiriusXM Radio ID

You must have the radio ID of your SiriusXM Connect Tuner before you can activate your SiriusXM subscription. You can locate the SiriusXM Radio ID on the back of the SiriusXM Connect Tuner or its packaging, or by tuning your stereo to channel 0.

With the SiriusXM source selected, select ▤ > **CHANNELS** > **ALL CHANNELS** > **000 RADIO ID**.

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

Activating a SiriusXM Subscription

1. With the SiriusXM source selected, tune to channel 1.

   You should be able to hear the preview channel. If not, check the SiriusXM Connect Tuner and antenna installation and connections, and try again.
2. Tune to channel 0 to locate the Radio ID.
3. Contact SiriusXM listener care by phone at (866) 635-2349 or go to www.siriusxm.com/activatenow to subscribe in the United States. Contact SiriusXM by phone at (877) 438-9677 or go to www.siriusxm.ca/activatexm to subscribe in Canada.
4. Provide the Radio ID.

   The activation process usually takes 10 to 15 minutes, but can take up to an hour. For the SiriusXM Connect Tuner to receive the activation message, it must be turned on and receiving the SiriusXM signal.
5. If the service is not activated within the hour, go to http://care.siriusxm.com/refresh or contact SiriusXM by phone at 1-855-MYREFRESH (697-3373).

Selecting a Category

You can control which categories of channels are available when using the CATEGORY tuning method.

1. With the SiriusXM source selected, select ▤ > **CATEGORY**.
2. Select a category.

Using Replay Mode

You can use Replay Mode to control playback of a SiriusXM broadcast.

NOTE: The device enables Replay Mode automatically when playing saved preset channels.

1. If necessary, hold ⏯ to enable Replay Mode.

   A ⏯ symbol appears at the top of the screen, and a progress bar appears at the bottom.
2. Select an option:
   - Press ⏯ to pause and resume playback.
   - Hold ⏯ to exit Replay Mode.
   - Hold ⏮ or ⏭ to rewind or fast-forward the track.
   - Press ⏮ or ⏭ to skip backward or forward in increments.

     NOTE: If you fast-forward or skip forward to the end of the progress bar, the stereo exits Replay Mode automatically.

Enabling the TuneStart™ Feature

When you enable the TuneStart feature and tune to a preset channel, the stereo starts the current song from the beginning of the song instead of starting it from the point it is at in the live broadcast.

NOTE: The TuneStart feature is available when tuning to preset channels only.

If necessary, select ☰ > **SXM SETTINGS** > **TUNESTART**.

When the TuneStart feature starts a song from the beginning, a progress bar appears and you can control the track using the same controls as Replay Mode (*Using Replay Mode*, page 4).

TuneMix™ Feature

Starting and Stopping a TuneMix Collection

Before you can start playing a TuneMix collection, you must create one (*Creating and Customizing a TuneMix Collection*, page 5).

The TuneMix feature enables you mix your favorite music channels to create a custom listening experience.

1. Select ☰ > **TUNEMIX**.
2. Select a TuneMix collection.

   The stereo begins playing the TuneMix collection.
3. To stop playing a TuneMix collection, select ☰ > **CHANNELS**, and select a channel.

   The stereo stops playing the TuneMix collection and begins playing the selected channel.

Creating and Customizing a TuneMix Collection

You can create up to 10 unique TuneMix collections on the stereo.

1. Select ☰ > **SXM SETTINGS** > **TUNEMIX**.
2. Select a TuneMix collection.
3. Select a channel to fill the check box and add it to the TuneMix collection.
4. After you are finished customizing the TuneMix collection, select ☰.
5. Repeat steps 2 through 4 for each TuneMix collection you want to customize.

Parental Controls

The parental control feature allows you to limit access to any SiriusXM channels, including those with mature content. When the parental control feature is enabled, you must enter a passcode to tune to the locked channels. You can also change the 4-digit passcode.

Unlocking the Parental Controls

You can unlock the parental controls to access locked channels.

1. With the **SIRIUSXM** source selected, select ☰ > **PARENTAL**.
2. Select the **UNLOCK** check box.
3. Enter the passcode.

   TIP: The default passcode is 0000.

The parental controls remain unlocked until you turn off the vehicle or until you lock them again.

Locking Channels

1. With the **SIRIUSXM** source selected, select ☰ > **PARENTAL**.
2. Select the **UNLOCK** check box.
3. Enter the passcode.

   TIP: The default passcode is 0000.
4. Select **LOCK/UNLOCK**.

   A list of available channels appears.
5. Select one or more channels to lock, and select ☰.
6. Clear the **UNLOCK** check box to lock the parental controls.

You cannot access the locked channels while the parental controls are locked. You must unlock the parental controls to tune the locked channels.

Clearing All Locked Channels

1. With the **SIRIUSXM** source selected, select ☰ > **PARENTAL** > **UNLOCK**.
2. Enter the passcode.
3. Select ☰ > **PARENTAL** > **CLEAR ALL LOCKED**.

Changing the Parental Control Passcode

1. With the **SIRIUSXM** source selected, select ☰ > **PARENTAL** > **UNLOCK**.
2. Enter the passcode.
3. Select ☰ > **PARENTAL** > **CHANGE PIN**.
4. Follow the on-screen instructions.

SiriusXM Troubleshooting

Advisory	Description	Resolutions
Check Antenna	The radio has detected a fault with the SiriusXM antenna. The antenna cable may be disconnected or damaged.	• Verify the antenna cable is connected to the SiriusXM Connect Vehicle Tuner. • Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer, or at www.shop.siriusxm.com.
Check Tuner	The stereo is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.	Verify the SiriusXM Connect Vehicle Tuner cable is connected securely to the stereo.
No Signal	The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.	• Verify the SiriusXM antenna is outdoors with a clear view of the sky. • Verify the SiriusXM antenna is mounted securely. • Remove obstructions above or next to the SiriusXM antenna. • Inspect the cable antenna for damage and kinks. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or at www.shop.siriusxm.com. • Consult the SiriusXM Connect Vehicle Tuner installation instructions for more information on antenna installation.

Advisory	Description	Resolutions
Subscription Updated	The radio has detected a change in your SiriusXM subscription status.	• Select any button to clear the message. • Go to www.siriusxm.com or call 866-635-2349 with questions about your subscription.
Channel Not Available	The channel you requested is not a valid SiriusXM channel, or the channel that you were listening to is no longer available. You may see this message briefly the first time you connect a new SiriusXM Connect Vehicle Tuner.	Go to www.siriusxm.com for more information about the SiriusXM channel lineup.
Channel Not Subscribed	The channel you requested is not included in your SiriusXM subscription package, or the channel you were listening to is no longer included in your SiriusXM subscription package.	Go to www.siriusxm.com or call 866-635-2349 for more information about your subscription package or to subscribe to the channel.
Channel Locked	The channel you requested is locked by the parental control feature.	Refer to the parental control section in the owner's manual to unlock channels.

General Settings

Select ☰ > **SETTINGS**.

NOTE: When a check box is filled, the option is on. When a check box is clear, the option is off.

ZONE: Enables you to configure the speaker zones (*Speaker Zones*, page 1).

ZONE > TONE: Adjusts the bass, middle, and treble tones.

LCD: Adjusts the backlight brightness and contrast settings (*Adjusting the Backlight Brightness and Contrast*, page 1).

POWER SAVE: Disables the LCD backlight after one minute of inactivity to save battery power.

LANGUAGE: Sets the language on the device.

TUNER REGION: Sets the region used by the FM, AM, and SIRIUSXM sources.

TEL MUTE: Sets the behavior of the mute function when the device is connected to a hands-free mobile phone. When a call is received, the device can either mute the audio or broadcast the call through the AUX input. See your hands-free kit instructions.

SET DEVICE NAME: Sets a name for this stereo (*Entering Text*, page 1).

UPDATE > HEAD UNIT: Updates the stereo using a valid software update file on a connected USB flash drive.

UPDATE > MS-NRX300/MS-NRX200: Updates compatible NRX series remote controls on the same NMEA 2000® network using a valid software update file on a connected USB flash drive.

UPDATE > FACTORY RESET: Resets all settings to the factory default values.

ABOUT: Shows the software versions for the stereo, FUSION-Link™, and connected remote.

Additional Stereo Control Options

FUSION-Link™ Wireless Remote Control App

You can use the FUSION-Link remote control app on your compatible Apple or Android device to adjust the stereo volume, change the source, control playback, select and manage radio presets, and adjust some stereo settings.

The app communicates with the stereo using a wireless connection to the mobile device. You must connect your compatible device to the stereo using Bluetooth technology to use the app.

For information about the FUSION-Link remote control app for compatible Apple or Android devices, go to the Apple App Store℠ or the Google Play™ store.

FUSION-Link Lite Connect IQ App

You can use the FUSION-Link Lite Connect IQ app on your compatible Garmin watch to adjust the volume, change the source, and control media playback on the stereo (*Connecting to a Garmin® Watch*, page 2).

FUSION-Link Network Technology

FUSION-Link network technology allows you to fully control compatible FUSION® entertainment systems on compatible multi-function displays installed at the helm, flybridge, or navigation station of the vessel. This provides integrated entertainment control and a less cluttered console.

The partnered multi-function display becomes the portal on which you can control all audio on the vessel, no matter where on the vessel the connected stereo is installed. The FUSION-Link equipped stereo can be installed out of sight if space is an issue and users need to access the stereo only to replace removable media.

FUSION-Link technology offered on this device can communicate using existing industry-standard NMEA 2000 networks.

For a list of FUSION-Link capable products from companies partnered with FUSION, go to www.fusionentertainment.com.

NMEA 2000 Remote Control and Display

The stereo can be controlled by compatible FUSION wired remote controls installed in the audio zones throughout the vessel. Operating the entertainment system from the remote control is similar to operating it from the main stereo.

FUSION wired remote controls operate over an existing NMEA 2000 network, so wiring the remote controls directly to the stereo is not necessary. All remote controls connected to the same NMEA 2000 network as the stereo can control the stereo.

If your vessel does not have a NMEA 2000 network, you can directly connect a single FUSION remote control or create a FUSION remote control network to connect multiple FUSION wired remote controls directly to the NMEA connector on the stereo. See the installation instructions provided with your stereo and remote for more information.

The FUSION wired remote control can also serve as an NMEA® display showing NMEA navigation data or vessel performance data from other NMEA devices on an existing NMEA 2000 network. See the instructions provided with your remote control for information on supported NMEA 2000 PGN information.

Appendix

Registering Your MS-RA70NSX

Help us better support you by completing our online registration today.

- Go to www.fusionentertainment.com.
- Keep the original sales receipt, or a photocopy, in a safe place.

Software Updates

For best results, you should update the software in all FUSION devices at the time of installation to ensure compatibility.

You can update the software using a USB flash drive. For software updates and instructions on updating the device using the USB flash drive, go to the device product page at www.fusionentertainment.com/marine.

Troubleshooting

The stereo does not respond to key presses

- Turn off power to the stereo for two minutes to reset the stereo.

The stereo keeps locking up when connected to an Apple device

- Press and hold the power button to reset the stereo.
- Reset the Apple device. Go to www.apple.com for more information.
- Make sure you have the latest version of iTunes® and the latest operating software on your Apple device.

The stereo is not finding my connected Apple device

- Make sure you have the latest version of iTunes and the latest operating software on your Apple device.
- Make sure you have the latest version of the FUSION-Link application on your Apple device.
- Reset the Apple device.

  Go to www.apple.com for more information.
- Contact your FUSION dealer or send an email to FUSION from www.fusionentertainment.com.

My Bluetooth audio is interrupted by short breaks

- Ensure the media player is not covered or obstructed.

  Bluetooth technology performs best with line-of-sight operation.
- Bring the media player within 10 m (33 ft.) of the stereo.
- Turn off the **DISCOVERABLE** setting after pairing a Bluetooth device to the stereo.

The stereo does not display all song information from my Bluetooth source

The availability of song information such as song title, artist name, track duration, and album cover artwork depends on the capability of the media player and music application.

Specifications

General	
Weight	556 g (19.6 oz.)
Water resistance	IEC 60529 IPX7 (front), IEC 60529 IPX3 (rear)
Operating temperature range	From 0 to 50°C (from 32 to 122°F)
Storage temperature range	From -20 to 70°C (from -4 to 158°F)
Input voltage	From 10.8 to 16 Vdc
Current (max.)	15 A
Current (muted)	Less than 900 mA
Current (standby)	Less than 15 mA
NMEA 2000 LEN	1 (50 mA)
ANT wireless range	Up to 3 m (10 ft.)

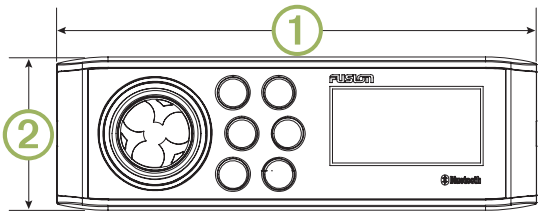
General	
Compass-safe distance	15 cm (5.9 in.)
Wireless frequencies/ protocols	Bluetooth: Class 2 Bluetooth/ANT frequency: 2,402 through 2,480 MHz Bluetooth/ANT transmit power: 1.9 dBm EIRP nominal

On-board, Class AB Amplifier	
Output music power per channel	50 W max. x 4 channels at 4 ohm per channel
Total output music power	200 W max.

Tuner	Europe and Australasia	USA	Japan
FM radio frequency range	87.5 to 108 MHz	87.5 to 107.9 MHz	76 to 95 MHz
FM frequency step	50 kHz	200 kHz	50 kHz
AM radio frequency range	522 to 1620 kHz	530 to 1710 kHz	522 to 1620 kHz
AM frequency step	9 kHz	10 kHz	9 kHz

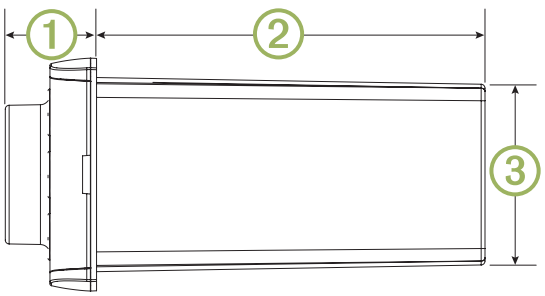
Stereo Dimension Drawings

Front Dimensions



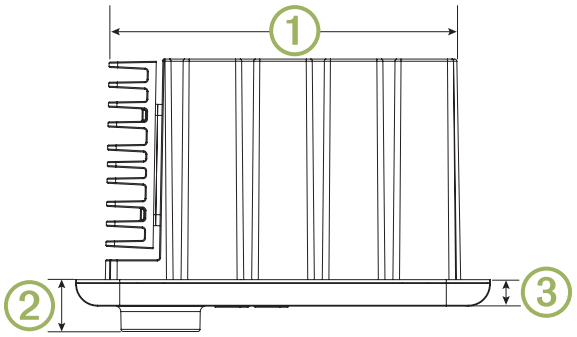
①	188 mm (7.40 in.)
②	60 mm (2.36 in.)

Side Dimensions



①	23.5 mm (0.93 in.)
②	100 mm (3.94 in.)
③	50 mm (1.97 in.)

Top Dimensions



①	161 mm (6.34 in.)
②	23.5 mm (0.93 in.)
③	12 mm (0.47 in.)

NMEA 2000 Information

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 enables the user to monitor a series of NMEA sentences available over the NMEA 2000 network on a connected remote control.

Go to www.fusionentertainment.com for a full list of supported NMEA sentences.

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