

# MS-NRX200i

MARINE WIRED REMOTE



ENGLISH

**FUSION**<sup>®</sup>  
FUSIONENTERTAINMENT.COM

## WARNINGS AND CAUTIONS

Do not attempt to open the unit's chassis. There are no user-serviceable parts or adjustments inside. Take care when handling.

## CARE AND MAINTENANCE

As with all products with a chrome finish exposed to the harsh Marine environment, a little care will help to preserve the finish and prevent corrosion. Fusion recommends that you clean any salt water and/or salt residue from the remote with a damp cloth soaked in fresh water. Always fit the protective cover when not in use.

## REGISTER YOUR PRODUCT ONLINE:

For your own peace of mind, register your product purchase online at [www.fusionentertainment.com](http://www.fusionentertainment.com)

All FUSION True Marine Products are backed by a 3 Year Limited Consumer Warranty and by registering your product you can be assured that if the unexpected occurs we'll have your details and be ready to help.

## RECORD YOUR PRODUCT DETAILS HERE:

SERIAL NUMBER \_\_\_\_\_ DATE OF PURCHASE \_\_\_\_\_

AFFIX RECEIPT HERE

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## USER INTERFACE AND CONTROLS

### CONTROL PANEL LAYOUT



### BUTTON FUNCTION



#### POWER

Press to turn the unit ON — (Stereo & Remote) Press and hold for 2 seconds to power OFF — (Stereo & Remote)

#### MUTE

Press once to mute/un-mute audio



#### SOURCE

Press to cycle available sources.  
Note: Press to find stereos when 'no stereo found' message is displayed.



#### MENU

Press to enter menu system. Press to return to previous screen. Press and hold to exit the menu structure. Press to exit NMEA mode.



#### PLAY/PAUSE

##### Short Press

iPod/MTP/USB/CD/BT – Pause/Resume current track.  
DVD – Pause/Resume current video playback.  
AM/FM/VHF – Press to cycle through tuning modes (auto, manual, presets).  
SiriusXM (USA Only) – Press to cycle through tuning modes (channels, presets)

##### Press and Hold

AM/FM/SiriusXM/VHF – Store the current station/channel as a Preset



#### BACK/PREVIOUS

##### Short Press

iPod/MTP/USB/CD/BT – Select the previous track.  
DVD – Select previous chapter  
AM/FM/VHF – Start tuning down the frequency spectrum or channel.  
(Auto/Manual tuning mode) or previous preset (Preset mode).  
SiriusXM (USA Only) – Step down the channel list.

##### Press and Hold

iPod/USB/CD – Rewind the current track.  
DVD – Rewind video playback.  
AM/FM/VHF – Fast station/channel stepping.  
SiriusXM (USA Only) – Fast browse down the channel list. Release button to select channel.



#### FORWARD/NEXT

##### Short Press

iPod/MTP/USB/CD/BT – Select the next track.  
DVD – Select next chapter  
AM/FM/VHF – Start tuning up the frequency spectrum or channel. (Auto/Manual tuning mode) or previous preset (Preset mode).  
SiriusXM (USA Only) – Step up the channel list.

##### Press and Hold

iPod/USB/CD – Fast forward the current track.  
DVD – Fast Forward video playback.  
AM/FM/VHF – Fast station/channel stepping.  
SiriusXM (USA Only) – Fast browse up the channel list. Release button to select channel.



#### ROTARY ENCODER

Turn to adjust volume, move up or down a menu structure, or adjust a specific setting item. Press to select a highlighted option, confirm a setting.

## INSTALLATION

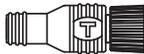
To complete the ultimate marine audio experience MS-NRX200i Marine Wired Remote Controls can be installed throughout the vessel to provide full control of multiple FUSION Marine Stereos, creating flexible zone control and NMEA 2000 monitoring solutions.

### Contents of the Box

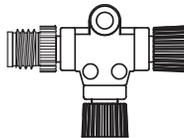
1 x MS-NRX200i	1 x Warranty card	1 x NMEA 2000 T-Connector
1 x dust cover	1 x hardware mounting kit	1 x NMEA 2000 female Terminator
1 x user manual	1 x 6M NMEA 2000 Backbone Cable	1 x NMEA 2000 in-line Terminator

### NMEA 2000 Components Supplied with MS-NRX200i

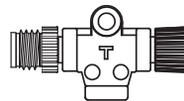
NMEA 2000  
FEMALE TERMINATOR



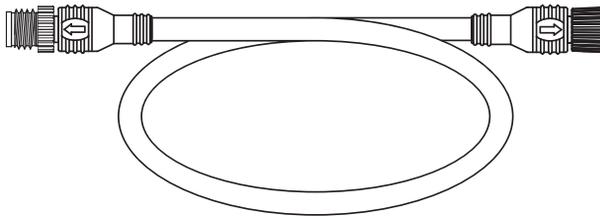
NMEA 2000  
TEE-CONNECTOR



NMEA 2000  
INLINE TERMINATOR



NMEA 2000  
BACKBONE CABLE - 6 METRE



The MS-NRX200i is a plug and play device with two connection options. Connect the remote control to your FUSION Marine Stereo with the standard cable kit provided with your purchase or to a existing NMEA 2000 network.

## INSTALLATION OPTION 1: FUSION REMOTE CONTROL NETWORK

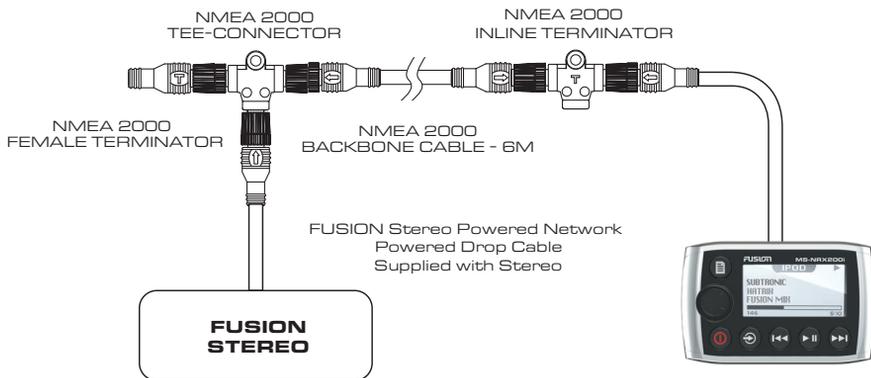
### Connecting a FUSION Network

To avoid exceeding the power loading limitations of a FUSION remote control network the maximum number of devices supported on a FUSION network is;

1. **One** FUSION Stereo Head Unit (MS-IP700i, MS-AV700i, MS-RA205, MS-BB300, MS-UD650, MS-AV650, MS-UD750, MS-AV750).
2. Up to **three** MS-NRX200i remote controls.

For installations requiring a greater number of devices or connecting to other NMEA 2000 equipment the installation of a full NMEA 2000 network is required. Refer to Option 2.

### Connecting the MS-NRX200i to a FUSION Stereo

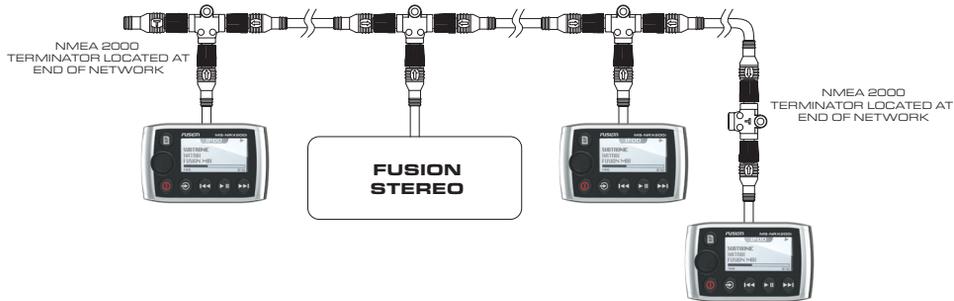


For the MS-IP700i, MS-AV700i, MS-RA205 and MS-BB300 stereos use the red Powered Drop Cable supplied with the stereo.

For the MS-UD650, MS-AV650, MS-UD750 and MS-AV750 stereos the WIRED REMOTE cable is located in the wiring loom at the rear of the stereo.

**Important Note:** To provide power to the remote controls on the FUSION remote control network ensure NRX POWER is enabled in the setting menu. Press the 'Menu' button and select 'SETTINGS' → 'NRX POWER' select ON (MS-UD650, MS-AV650, MS-UD750 and MS-AV750 only).

## Example of Installation with Multiple (3) Remote Controls



## INSTALLATION OPTION 2: CONNECTING TO AN EXISTING NMEA 2000 NETWORK

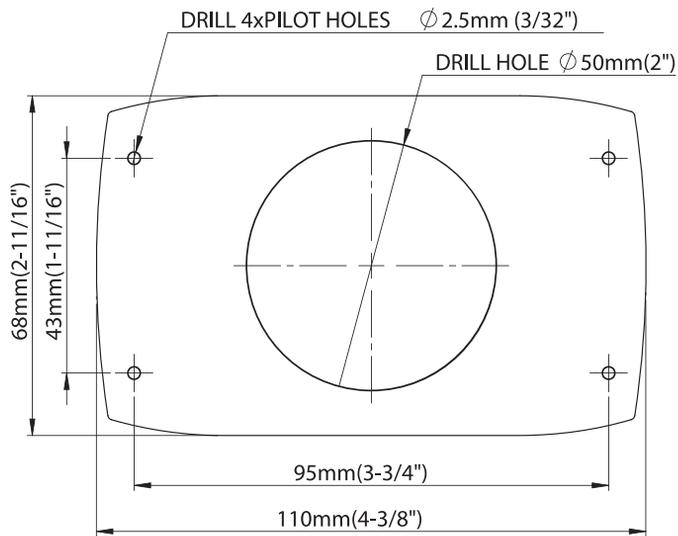
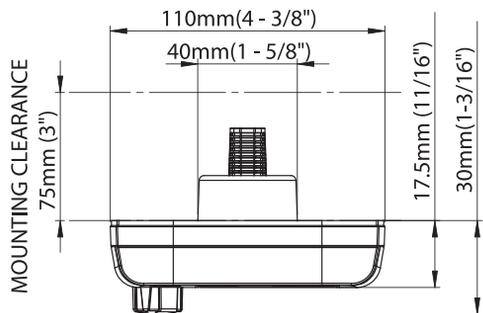
FUSION's MS-NRX200i wired remote controls are capable of operating over an existing NMEA 2000 network, removing the need to wire back to the stereo unit. The MS-NRX200i pack contains all necessary cables and connectors for connecting the remote control to an existing NMEA 2000 network.

**Important Note:** NMEA 2000 Drop cables for FUSION Stereo head units are not supplied with the stereos. The drop cables are available from FUSION as an optional accessory. DO NOT use the red FUSION Powered Drop cable in this installation. FUSION stereos must connect using the black NMEA 2000 drop cables.

## FUSION NMEA 2000 OPTIONAL ACCESSORIES

Stereo	FUSION NMEA 2000 Drop Cable	FUSION NMEA 2000 T-Connector
MS-AV700i	CAB000852	CAB000581
MS-IP700i	CAB000852	CAB000581
MS-RA205 & MS-BB300	CAB000863 (Included with MS-BB300)	CAB000581 (Included with MS-BB300)

# MOUNTING DIAGRAM (NOT TO SCALE)



## OPERATION

### POWER ON/OFF

Press  to turn on the remote control. The FUSION Marine Stereo will power on if currently OFF.

Note: If the remote control is configured to display NMEA 2000 data sentences the power on sequence becomes a two-step process. See NMEA Repeater section below.

Press  to MUTE the audio when the stereo is ON. Press and hold  to turn the stereo and remote control OFF.

### ASSIGNING THE REMOTE TO A STEREO

Press the 'Menu' button and select 'SETTINGS' → 'STEREO'. Select the desired stereo from the list of available devices on the network.

### ASSIGNING THE REMOTE TO A ZONE

Press the 'Menu' button and select 'SETTINGS' → 'ZONE' → 'ASSIGN'. Select the desired zone from the list of available zones. Press the 'Menu' button to exit.

Note: Due to space limitations on the MS-NRX200i display the full zone name is not displayed if ALL ZONES is selected.

### VOLUME ADJUST

Turn the 'Rotary Encoder' to adjust volume levels. Press Encoder to move highlight (if remote is assigned to ALL ZONES).

ZONE 1 → ZONE 2 → ZONE 3 → ZONE 4 → ALL ZONES →

### BACKLIGHT BRIGHTNESS

Press the 'Menu' button and select 'SETTINGS' → 'LCD'. Turn the 'Rotary Encoder' to adjust Brightness or Contrast. Press the 'Rotary Encoder' to step between Brightness and Contrast. Press the 'Menu' button to exit.

After a period of inactivity the remote turns off the display backlight (Default). To disable this function Press the 'Menu' button and select 'SETTINGS' → 'POWER SAVE'. Press the 'Rotary Encoder' to enable/disable the function. Press the 'Menu' button to exit.

## TROUBLESHOOTING GUIDE

Message	Description	Solution
Waiting for network check connections	Power detected on network. No communication to/from stereo.	Check all network connections.
Stereo not assigned press source button to assign a stereo	During initial installation the remote control will need to be assigned to a stereo on the network.	Press Source button to display a list of Fusion stereos on the network. Select stereo from the available list.
Stereo off line	Unable to detect stereo on network.	Check power connection to stereo.
Waiting for stereo	Stereo detected on network. Waiting for stereo to complete power-on sequence.	Wait for stereo to power on.

## SiriusXM® SATELLITE RADIO

(USA only) - Requires optional SiriusXM® Vehicle Connect Tuner and subscription (not included) connected to FUSION Stereo.

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over

140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit [www.siriusxm.com](http://www.siriusxm.com)

**For additional SiriusXM operation information refer to the FUSION Stereo user manual**

The user manual contains information regarding the following;

- SiriusXM installation and activation information.
- SiriusXM operation information.
- A trouble shooting guide to assist the user with installation and information regarding SiriusXM status and error messages.

## NMEA 2000 REPEATER (NMEA 2000 NETWORK ONLY)

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.

### NMEA 2000 REPEATER MODE

#### SELECTING NMEA 2000 DATA SENTENCES TO DISPLAY

Press the 'Menu' button and select 'SETTINGS' → 'NMEA MONITOR'. Select the NMEA data to be displayed from the list of available data. Press the 'Menu' button to exit.

- Wind Direction
- Wind Speed
- Depth
- Speed over Ground
- Speed through Water
- Heading
- Position
- Water Temperature
- Atmospheric Pressure
- ETA

#### SELECTING THE DISPLAY METHOD

The remote control can be configured to automatically cycle through the selected NMEA 2000 data. Press the 'Menu' button and select 'SETTINGS' → 'NMEA Monitor' → 'CYCLE SCREENS'. Select from the following options. Press the 'Menu' button to exit.

- Off
- 2 seconds
- 5 seconds
- 10 seconds

## SELECTING UNITS OF MEASURE

Press the 'Menu' button and select 'SETTINGS' → 'NMEA Monitor' → 'SET UNITS'. Select from the following options. Press the 'Menu' button to exit.

Direction: Magnetic

True Speed: KM/H, MPH, KTS, M/S

Depth: Metres, Feet, Fathoms

Temperature: deg C, deg F

## POWER ON/OFF — NMEA 2000 REPEATER MODE

If the remote control has been configured to display NMEA 2000 data sentences it can be turned on independently of the FUSION Marine Stereo. This permits the user to monitor NMEA data without turning on the stereo.

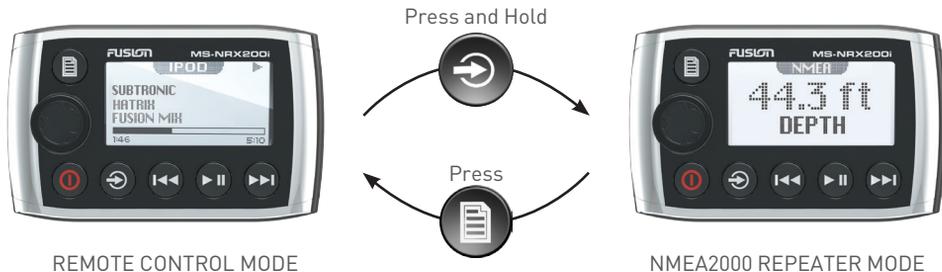
Press  to turn on the remote control. The remote control will enter NMEA 2000 repeater mode and will NOT turn on the stereo. The stereo can be turned on from the remote control by pressing the Menu key to exit the NMEA 2000 repeater mode. To return to the repeater mode press and hold the Source key.

When in NMEA 2000 repeater mode the remote will monitor the state of the stereo. If the stereo is turned on then the remote will allow the user to change volume and mute the stereo, play, pause and skip track (back and forwards) without leaving NMEA 2000 repeater mode.

## TURNING ON THE REMOTE CONTROL WITH THE MARINE STEREO TURNED ON

Press  to turn ON the remote control. It will detect the stereo is on and enter the remote control mode.

## CHANGING REMOTE CONTROL MODE



## NMEA 2000 REPEATER MESSAGES

PGN Number	PGN Data Field	FUSION Supported
127250	Heading Sensor Reference 0 = True, 1 = Magnetic,	Yes Yes
128259	Speed Water Reference Type 00 = Paddle Wheel 01 = Pitot Tube 02 = Doppler Log 03 = Correlation Log (Ultra-Sound) 04 = EM Log (Electro - Magnetic)	Yes Yes Yes Yes Yes
128267	Water Depth Offset add/subtract	Yes
129025	Position Lat/Lon	Yes
129026	COG/SOG COG Reference 0 = True, 1 = Magnetic,	Yes Yes
129029	GNSS Position Data Yes	
130306	Wind Data Wind reference 0x00 = Theoretical Wind (ground referenced, referenced to True North; calculated using COG/SOG) 0x01 = Theoretical Wind (ground referenced, referenced to Magnetic North; calculated using COG/SOG) 0x02 = Apparent Wind (relative to the vessel centerline) 0x03 = Theoretical (Calculated to Centerline of the vessel, referenced to ground; calculated using COG/SOG) 0x04 = Theoretical (Calculated to Centerline of the vessel, referenced to water; calculated using Heading/Speed through Water)	No No Yes No No
130310	Water Temp & Air Pressure	Yes
130311	Water Temp & Air Pressure	Yes

PGN Number	PGN Data Field	FUSION Supported	
130312	Temperature	Yes	
	Temperature Source		
	00 = Sea Temperature	Yes	
	01 = Outside Temperature	No	
	02 = Inside Temperature	No	
	03 = Engine Room Temperature	No	
	04 = Main Cabin Temperature	No	
	05 = Live Well Temperature	No	
	06 = Bait Well Temperature	No	
	07 = Refrigeration Temperature	No	
	08 = Heating System Temperature	No	
	09 = Dew Point Temperature	No	
	10 = Wind Chill Temperature, Apparent	No	
	11 = Wind Chill Temperature, Theoretical	No	
12 = Heat Index Temperature	No		
13 = Freezer Temperature	No		
130314	Actual Pressure		
	Pressure Source		
	00 = Atmospheric Pressure	Yes	
	01 = Water Pressure		No
	02 = Steam Pressure	No	
130577	03 = Compressed Air Pressure		No
	04 = Hydraulic Pressure	No	
	Direction Data		
129284	COG Reference		
	0 = True,	Yes	
	1 = Magnetic,	Yes	
	SOG Yes		
129284	STW Yes		
	Navigation Data		
	ETA Date	Yes	
	Bearing, Origin To Destination Waypoint	No	
	Bearing, Position To Destination Waypoint	No	
	Destination Waypoint Number	No	
	Destination Wpt Latitude	No	
Destination Wpt Longitude	No		
Waypoint Closing Velocity	No		

## SPECIFICATIONS

OPERATING VOLTAGE: 10.8 - 16VDC Negative ground

CURRENT CONSUMPTION: @12V 110mA

NMEA 2000 LEN: 3 (150mA)

OPERATING TEMPERATURE: 0 to 50 °C (from 32 to 122°F)

STORAGE TEMPERATURE: -20 to 70 °C (from -4 to 158°F)

## LICENSING



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## 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.

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