



MS-NRX300

INSTALLATION INSTRUCTIONS

Important Safety Information

↑ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

Failure to install this device according to these instructions could result in personal injury, damage to the vessel or device, or poor product performance.

↑ CAUTION

To avoid possible personal injury, always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

NOTICE

When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vessel.

Getting the Owner's Manuals

To fully understand the features and operations of your stereo, you can get the latest stereo owner's manual and translations of manuals from the web. You can also download the full remote owner's manual for more information about using this remote.

- 1 Go to garmin.com/marine.
- 2 Select a manual.

What's In the Box

- · Mounting gasket
- · Four 8-gauge, self-tapping screws
- · Two screw covers
- 6 m (20 ft.) NMEA 2000[®] backbone cable
- NMEA 2000 T-connector
- Dust cover



Tools Needed

- · Phillips screwdriver
- Drill
- 2.5 mm (³/₃₂ in.) drill bit
- 50 mm (2 in.) hole saw
- Marine sealant (optional)

Connection Considerations

You can connect the MS-NRX300 remote control to a Fusion® stereo using one of two methods, depending on the stereo:

- A new Fusion remote control network
- An existing NMEA 2000 network

The main difference between a Fusion remote control network and a NMEA 2000 network is how they receive power. A NMEA 2000 network receives power through a power cable connected to the backbone and a power source.

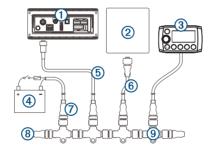
A Fusion remote control network receives power from the stereo. The stereo can supply power to a Fusion remote control network if it has the NRX POWER option in the SETTINGS menu or if a red drop cable is included in the stereo box. The Fusion remote control network can support up to three remote controls.

If the stereo cannot supply power to the Fusion remote control network, you must connect the MS-NRX300 remote control using the NMEA 2000 network.

NMEA 2000 Connection Considerations

You may connect the remote control to the stereo using an existing NMEA 2000 network.

- You can connect more than three MS-NRX300 remote controls to one Fusion stereo.
- · You are connecting to a Fusion stereo that cannot provide power to the remote.
- You can control a connected Fusion stereo from a FUSION-Link[™] compatible chartplotter.



Item	Description
1	Fusion stereo
2	Compatible chartplotter
3	MS-NRX300 remote control*
4	12 Vdc power source with an ignition or in-line switch
5	NMEA 2000 drop cable and T-connector, dependant on stereo. See the following table.
6	NMEA 2000 drop cable
7	NMEA 2000 power cable, 2 m (6 ft.)
8	NMEA 2000 terminator or backbone cable
9	NMEA 2000 T-connector*

^{*}Components included with the MS-NRX300 remote control.

NOTE: The NMEA 2000 network may include other NMEA 2000 devices.

NMEA 2000 Cables and Software Settings

The cables required to connect to the NMEA 2000 network vary depending on the stereo. See the table below to determine which cables and possible software settings are required for your stereo model.

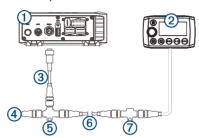
All stereos require a T-connector to connect the drop cable to the NMEA 2000 network. You can extend the drop cable to a maximum length of 6 m (20 ft.) using a standard NMEA 2000 cable.

Stereo	Cables and software settings required				
NRX POWER option in software.	 Included NMEA 2000 drop cable required. Included NMEA 2000 T-connector required. 				
Examples:	NOTICE				
 Apollo™ MS-RA770 Apollo MS-RA670 	To avoid damaging other devices on the NMEA 2000 network, the NRX POWER option must be off. This is off by default. See the stereo owner's manual for more information.				
	He a the carble on the atoms while a bounce				
NDV DOWED	Use the cable on the stereo wiring harness.Included NMEA 2000 T-connector required.				
NRX POWER option in software, NMEA 2000 cable	NOTICE				
hardwired to stereo.	To avoid damaging other devices on the NMEA 2000 network, the NRX POWER option must be off. This is off by default. See the stereo owner's manual for more information.				
No NRX POWER option in software.	Included NMEA 2000 drop cable required.Included NMEA 2000 T-connector required.				
N. NDV DOWED	Drop cable required.Included NMEA 2000 T-connector required.				
No NRX POWER option in	NOTICE				
software, red cable included.	To avoid damaging other devices on the NMEA 2000 network, do not use the red drop cable included with the stereo to connect to the NMEA 2000 network.				

Fusion Remote Control Network Connection Considerations

You may connect the remote control to the stereo using a standalone powered Fusion remote control network if you have the following conditions.

- You do not have a full NMEA 2000 network on your boat.
- You are connecting three or fewer MS-NRX300 remote controls to one Fusion stereo.
- You are connecting to a Fusion stereo that can provide power to the remote. The stereo can supply power to the remote control if it has an NRX POWER option in the SETTINGS menu or if a red drop cable is included.



Item	Description
1	Fusion stereo
2	MS-NRX300 remote control*
3	NMEA 2000 drop cable. See the following table.
4	NMEA 2000 female terminator*
5	NMEA 2000 T-connector*
6	NMEA 2000 backbone cable, 6 m (20 ft.)*
7	NMEA 2000 inline terminator*

^{*}Components included with the MS-NRX300 remote control.

Fusion Remote Control Network Cables and Software Settings

The cables required to connect to the Fusion remote control network vary depending on the stereo. See the table below to determine which cables and possible software settings are required for your stereo model.

The stereo can supply power to the remote control if it has an NRX POWER option in the SETTINGS menu or if a red drop cable is included.

Stereo characteristics	Cables and software settings required				
NRX POWER option in software.	 Included NMEA 2000 drop cable required. You must enable the NRX POWER setting to provide power to the remote control. Select > SETTINGS > POWER OPTIONS > NRX POWER. 				
NRX POWER option in software, NMEA 2000 cable hardwired to stereo.	 Use the cable on the stereo wiring harness. No additional cables needed. You must enable the NRX POWER setting to provide power to the remote control. Select > SETTINGS > NRX POWER. 				
No NRX POWER option in software.	Not supported. Connect to a NMEA 2000 network.				

Mounting Considerations

When selecting a mounting location, observe these considerations.

- The device must be mounted in a location where there is at least 75 mm (3 in.) of clearance behind the mounting surface and you can access the controls after it is mounted.
- If you want to mount the device outside the boat, it must be mounted in a location well above the waterline, where it is not submerged.
- If you want to mount the device outside the boat, it should be mounted in a location where it will not be damaged by a docks, pilings, or other pieces of equipment.

Mounting the Remote Control

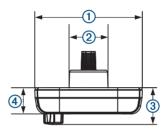
- 1 At the mounting location, use a 50 mm (2 in.) hole saw to cut through the mounting surface.
- 2 Place the remote control in the cutout and mark the pilot holes.
- 3 Remove the remote control from the cutout, and using a 2.5 mm ($^{3}/_{32}$ in.) drill bit, drill the pilot holes.
- 4 Apply marine sealant around the cutout (optional).
- **5** Place the gasket on the back of the remote control.
- 6 Feed the attached NMEA 2000 cable through the cutout.
- 7 Place the remote control in the cutout.
- 8 Secure the remote control to the mounting surface using the included screws.
- 9 Install the decorative bezel around the edges of the remote control.
- **10** Route the NMEA 2000 cable away from sources of interference and connect it to the NMEA 2000 network or the Fusion remote control network.

More Information

Specifications

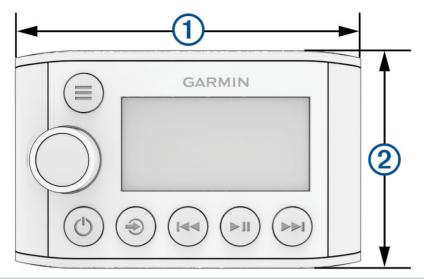
Specification	Measurement		
Operating voltage	From 10.8 to 16 Vdc negative ground		
Electrical input current	110 mA at 12 Vdc		
NMEA 2000 Load Equivalency Number (LEN)	3 (150 mA)		
Operating temperature	From 0 to 50°C (from 32 to 122°F)		
Storage temperature	From -20 to 70°C (from -4 to 158°F)		
Water rating	IEC 60529 IPX7		

Top Dimensions



Item	Measurement
1	110 mm (4 ⁵ / ₁₆ in.)
2	42 mm (1 ⁵ / ₈ in.)
3	28 mm (1 ³ / ₃₂ in.)
4	16.5 mm (⁴¹ / ₆₄ in.)

Front Dimensions



1	110 mm (4.33 in.)
2	70 mm (2.76 in.)

Supported NMEA 2000 PGN Information

NOTE: You must connect the device to a NMEA 2000 network for NMEA 2000 support.

PGN Number	Data Field
127250	Heading sensor reference: • 0: True • 1: Magnetic
128259	Water speed reference: Our Paddle wheel Our Pitot tube Our Doppler log Our Correlation log (ultrasound) Our Electromagnetic (EM) log
128267	Water depth: • Offset add or subtract
129025	Position: • Latitude and longitude
129026	Course Over Ground (COG) and Speed Over Ground (SOG) COG reference: O: True 1: Magnetic
129029	Global Navigation Satellite System (GNSS) position data
129284	Navigation data: • ETA date
130306	Wind data reference: • 0x02 : Apparent wind (relative to the vessel centerline)
130310	Water temperature and air pressure
130311	Water temperature and air pressure
130312	Temperature and temperature source: • 00 : Sea temperature
130314	Actual pressure and pressure source: • 00 : Atmospheric pressure
130577	Direction data and COG reference: • 0: True • 1: Magnetic

Registering Your MS-NRX300

Help us better support you by registering the product online.

- Go to garmin.com.
- Keep the sales receipt, or a copy, in a safe place.

Software Updates

You must update the software for this device using a connected compatible stereo or using the Fusion-Link[™] app.

To make sure the device functions correctly with all compatible stereos on the network, you should update the software in all devices after you install this device.

For software update instructions, see the online owner's manual for this device or for a connected compatible stereo.

物質宣言

部件名称	有毒有害物质或元素					
RPITT日初	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
印刷电路板组件	X	0	0	0	0	0
屏幕/背光	X	0	0	0	0	0
金属零件	X	0	0	0	0	0
电缆 电缆组件 连接器	X	0	0	0	0	0

本表格依据 SJ/T11364 的规定编制。

○: 代表此种部件的所有均质材料中所含的该种有害物质均低于 (GB/T26572) 规定的限量



: 代表此种部件所用的均质材料中, 至少有一类材料其所含的有害物质高于

產品

(GB/T26572) 规定的限量

*該產品說明書應提供在環保使用期限和特殊標記的部分詳細講解產品的擔保使用條件。

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