SUZUKI MARINE

Suzuki Engine Interface Sensor
Installation Instructions

This instruction sheet tells how to install your Suzuki Engine Interface and connect it to a NMEA 2000® network using IntelleNET™ network components. You must refer to your digital gauge, sonar or GPS unit's manual for sensor operation instructions.

Important

⚠ WARNING / CAUTION / NOTE

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol ⚠ and the words **WARNING**, **CAUTION** and *NOTE* have special meanings. Pay special attention to the messages highlighted by these signal words:

⚠ WARNING

Indicates a potential hazard that could result in death or injury.

CAUTION

Indicates a potential hazard that could result in boat or equipment damage.

NOTE: Indicates special information to make maintenance easier or instructions clearer.

CAUTION
Installing SMIS network devices is significantly different from installing components without NMEA 2000 features. Please read all of the installation instructions before proceeding. You should decide

All Suzuki NMEA 2000-capable devices are either NMEA 2000-certified or certification is pending. See our web site for the latest product status information.

The Suzuki Engine Interface module.

This sensor consists of a smart module, blue female locking cable connector, Engine Interface connector and Engine Trim connector. The sensor converts engine information into a format compatible with the NMEA 2000 data format.

The Engine Interface is designed only for use with a NMEA 2000 Network. It *MUST* be connected to a NMEA 2000 network or it *WILL NOT* function.

Tools and Supplies
A T connector is the only electronic component needed to attach it to an existing IntelleNET NMEA 2000 network.

The IntelleNET Node Kit for a NMEA 2000 network includes a 2-foot extension cable, T connector, 120-ohm male terminator and 120-ohm female terminator.
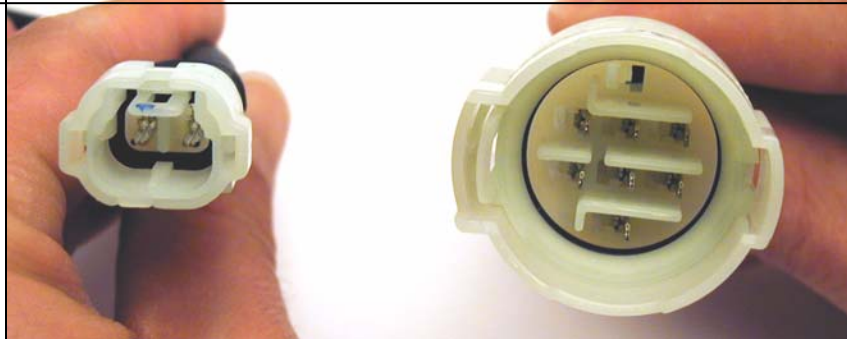
For complete instructions on setting up a new NMEA 2000 network or expanding an existing one, see the other document packed with your Engine Interface, "*Setup and Installation of NMEA 2000 Networks, General Information*" part number XXXXX-XXXXX-XXX.

Installation

Install one Engine Interface sensor per engine. Refer to your engine operation manual to remove the engine cover. After the cover has been removed, pass the Engine Interface connector and Trim connector through a wiring opening. in the back of the boat.

<div style="border:1px solid">

CAUTION

When installing this sensor, make sure its cable will not come in contact with any moving parts or parts of the engine that will get hot. Make sure there is enough slack in the cable to allow the engine to freely move up.

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Trim connector (left) Engine Interface connector (right).

Connect the Engine Interface connector to the interface connector on the engine. Apply even pressure to the connector until it snaps into place. Next, attach the Trim connector to the trim connector on the engine. Apply even pressure to the connector until it snaps into place. For more detailed instructions, contact your Suzuki Marine dealer.

Route the sensor blue connector to the desired T connector on the network backbone and plug it in. The sensor is ready to use.

Connecting to a NMEA 2000 Network

A network bus is an installed and operational network cable (backbone) running the length of your boat, connected to a power supply and properly terminated. Like your home's telephone wiring with phones in different rooms connected to the same communications line, a network bus is the communications line into which NEMA 2000 sensors, devices
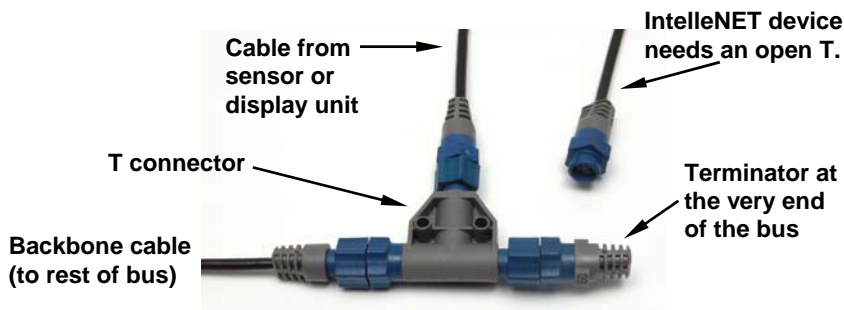
and display units are attached at various locations in a boat.

Network Nodes

A network bus is built of network nodes attached to a backbone. A network node is made by inserting a T-shaped connector into the backbone (using the side sockets) and attaching a display unit or sensor to the bottom socket of the T.

The T connectors are similar to telephone jacks. The backbone is similar to a phone line running through the boat. As phones must be connected to each other to communicate, only sensors and display units plugged into the NMEA network can share information.

Connections found in the middle of the bus will have one or more of these T-shaped connectors with the backbone cables plugged into both sides. Connections at the end of a network will have the backbone plugged into one side, and a terminator plugged into the other, as shown below.

NMEA 2000 network node located at the end of a NMEA 2000 bus.
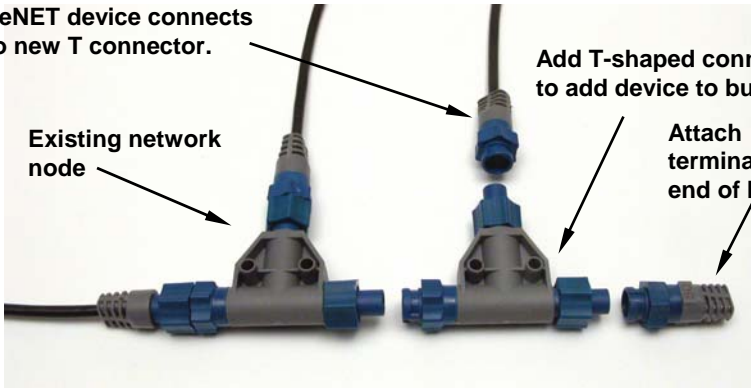
Adding a Network Node

You can add a node anywhere along the network backbone where a connection already exists. This connection could be at the end of the network (between a T connector and a terminator), between two T connectors, between a T connector and a backbone extension cable, or between two extension cables.

Add a new device to a NMEA 2000 bus by attaching a T connector between two T connectors, between a T connector and the end terminator, or between two backbone extension cables.

Wherever you want to add the new node, simply separate the sockets of the old connection and attach your new T connector between them.

If you want to add a node at the end of the line (as shown in the previous figure), remove the terminator from the very last connector, securely attach the new T connector, and then attach the terminator on the new connector. Either method will allow you to add a device.

Additional Network Information
Further instructions on creating or expanding a network are illustrated in the NMEA 2000 network setup booklet, part number XXXXX-XXXXX-XXX, which came packed with this instruction sheet.

Notes

How to Obtain Service…
…in the USA:
Contact your nearest Suzuki Marine Dealer
…in Canada:
Contact your nearest Suzuki Marine Dealer
…outside Canada and the USA:
Contact the dealer in the country where you purchased your unit.

Accessory Ordering Information
Please contact your local Suzuki Marine dealer. To locate a Suzuki Marine dealer, visit the web site, www.suzukimarine.com, and look for the Dealer Locator. To locate a Canadian Suzuki Marine dealer, visit the web site, http://www.suzuki.ca, and look for the Dealer Locator. Or, consult your telephone directory for listings.