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Garmin 010-11078-00

Garmin NMEA 2000 T-connector User Manual

Model: 010-11078-00

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Garmin NMEA 2000 T-connector. The T-connector is a fundamental component for expanding your NMEA 2000 network, allowing for the connection of additional devices or segments.



Figure 1.1: Top view of the Garmin NMEA 2000 T-connector, showing its three connection points for network integration.

2. What's in the Box

Your Garmin NMEA 2000 T-connector package includes:

- One (1) Garmin NMEA 2000 T-connector (Model: 010-11078-00)

3. Setup and Installation

The NMEA 2000 T-connector is designed for simple integration into an existing NMEA 2000 backbone. Follow these steps for proper installation:

1. **Identify Backbone Connection Points:** Locate an available male and female connector on your NMEA 2000 backbone cable where you wish to add a new device or network segment.
2. **Connect to Backbone:** Connect one end of the T-connector to the male connector of the backbone and the other end to the female connector of the backbone. Ensure a secure, hand-tightened connection.
3. **Connect Device/Drop Cable:** The remaining port on the T-connector is for connecting a device's drop cable. Connect the male end of your device's drop cable to this female port on the T-connector.
4. **Secure Connections:** Ensure all connections are fully seated and the locking collars are tightened to prevent accidental disconnections and ensure a watertight seal.



Figure 3.1: Side view of the T-connector, illustrating the robust construction and connection points. Note the 'CHINA' marking and regulatory symbols.

For optimal network performance, ensure your NMEA 2000 network is properly terminated at both ends of the

backbone and that power is supplied to the network.

4. Operating Principles

The Garmin NMEA 2000 T-connector is a passive component that facilitates the physical connection of devices to an NMEA 2000 network backbone. It does not require external power or configuration. Once properly installed, it allows data to flow between the connected device and the rest of the NMEA 2000 network.
The T-connector maintains the integrity of the network's data bus and power lines, ensuring reliable communication between all connected NMEA 2000 certified devices.

5. Maintenance

The Garmin NMEA 2000 T-connector is designed for durability and requires minimal maintenance. However, periodic inspection is recommended to ensure continued reliable operation:

- **Visual Inspection:** Regularly check the connector for any signs of physical damage, corrosion, or wear.
- **Connection Integrity:** Ensure all connections remain tight and secure. Loose connections can lead to intermittent network issues.
- **Cleaning:** If necessary, gently clean the exterior of the connector with a damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Environmental Protection:** While designed for outdoor use, protecting the connector from extreme environmental conditions (e.g., prolonged submersion, direct impact) will extend its lifespan.

6. Troubleshooting

If you experience issues with your NMEA 2000 network after installing the T-connector, consider the following:

- **No Device Recognition:**
  - Verify all connections are secure and fully tightened.
  - Check that the NMEA 2000 network is properly powered and terminated.
  - Ensure the device connected to the T-connector is NMEA 2000 compatible and functioning correctly.
- **Intermittent Connectivity:**
  - Inspect the T-connector and cables for any signs of damage or corrosion.
  - Ensure the network backbone is not overloaded with too many devices or excessive cable length.
- **Physical Damage:** If the T-connector is physically damaged, it should be replaced immediately to prevent network issues or potential hazards.

7. Specifications

Feature	Detail

Feature	Detail
Model Name	010-11078-00
Brand	Garmin
Product Type	NMEA 2000 T-connector
Dimensions (L x W x H)	3 x 2 x 1 inches (approximate)
Item Weight	0.64 ounces (18.14 g)
Material	Plastic
Color	Grey with Black Caps
Specification Met	NMEA 2000
Indoor/Outdoor Usage	Outdoor

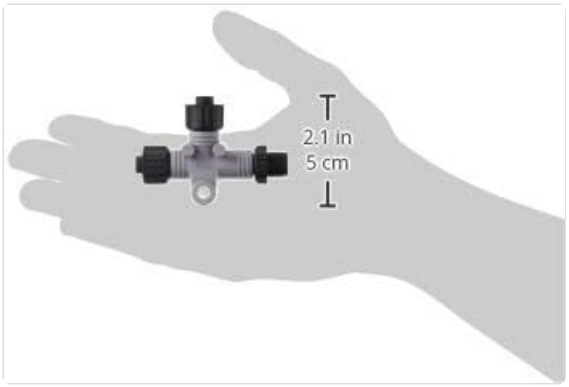


Figure 7.1: The T-connector shown in hand, providing a visual reference for its compact size.

8. Warranty Information

For detailed warranty information regarding your Garmin NMEA 2000 T-connector, please refer to the warranty card or documentation included with your original purchase. Garmin's standard warranty terms and conditions apply to this product. Please retain your proof of purchase for warranty claims.

9. Customer Support

If you require further assistance or have questions not covered in this manual, please contact Garmin Customer Support. Visit the official Garmin website for support resources, FAQs, and contact information.
Garmin Official Website: www.garmin.com

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