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SouthMarine 84-892990T01, 84-892990A01

SouthMarine Instrument Line Harness Assembly User Manual

Model Numbers: 84-892990T01, 84-892990A01

Product Overview Setup & Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

This manual provides essential information for the proper installation, operation, and maintenance of your SouthMarine Instrument Line Harness Assembly. This harness is designed to connect analog gauges to compatible outboard engines, ensuring accurate data transmission for critical engine parameters.

The SouthMarine Instrument Line Harness is a direct replacement for OEM part numbers 84-892990T01 and 84-892990A01. It is compatible with various Mercury, Mariner, Quicksilver, and Mercruiser outboard engines.

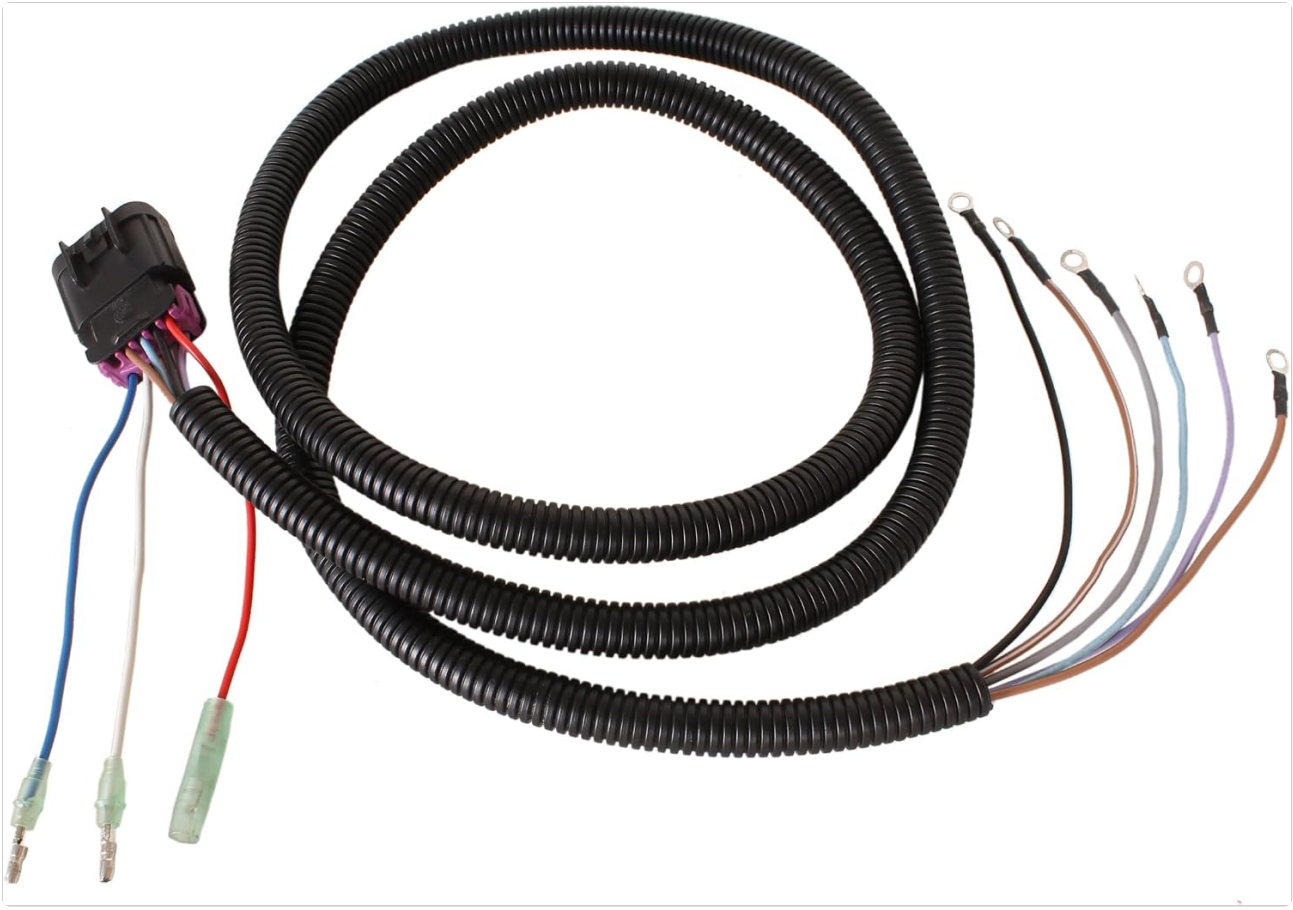


Figure 1: The SouthMarine Instrument Line Harness Assembly. This image displays the full harness, including the main connector and individual wire leads with ring terminals.

The harness measures 5 feet (approximately 1.6 meters) in length, providing sufficient reach for most installations. It features a robust design with a protective corrugated conduit for durability in marine environments.

2. Setup and Installation

Proper installation is crucial for the reliable operation of your instrument gauges. It is recommended that installation be performed by a qualified marine technician.

2.1 Pre-Installation Checklist

- Verify that the harness part numbers (84-892990T01 or 84-892990A01) match your engine's requirements.
- Ensure the engine's power is disconnected before beginning installation.
- Gather necessary tools (e.g., wire crimpers, electrical tape, zip ties).

2.2 Installation Steps

1. **Locate the Existing Harness:** Identify the current instrument line harness on your engine.
2. **Disconnect Old Harness:** Carefully disconnect the old harness from the engine's main connector and from the individual gauge connections. Note the routing for easier installation of the new harness.
3. **Connect New Harness to Engine:** Plug the main connector of the new SouthMarine harness into the corresponding receptacle on your engine. Ensure a secure and snug fit.
4. **Connect to Gauges:** Route the individual wire leads to their respective analog gauges. Each wire is typically color-coded and terminated with a ring terminal for easy connection to gauge posts. Refer to your engine's service manual or gauge manufacturer's instructions for specific wiring diagrams if needed.
5. **Secure Wiring:** Use zip ties or other appropriate fasteners to secure the harness, preventing it from chafing

or interfering with moving parts.

6. **Test Connections:** Once all connections are made, reconnect engine power and test the functionality of each gauge.

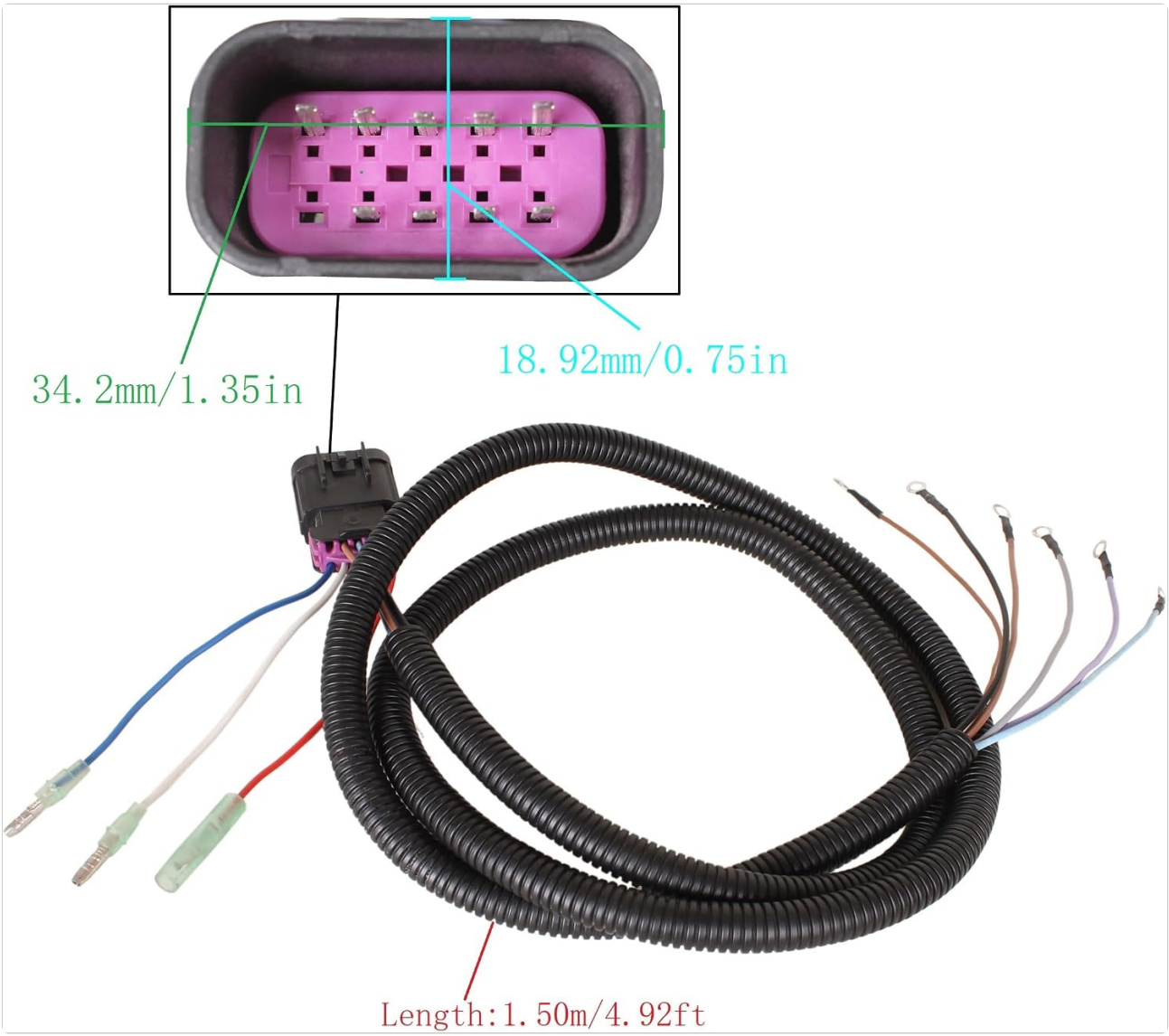


Figure 2: Detailed view of the harness connector, showing its dimensions (34.2mm / 1.35in and 18.92mm / 0.75in). This image helps in verifying the physical compatibility of the connector.

Important Note: If you require assistance with wiring diagrams or specific connection details, please contact SouthMarine customer support for guidance. Incorrect wiring can lead to gauge malfunction or damage.

3. Operation

The SouthMarine Instrument Line Harness Assembly functions as a critical conduit for electrical signals between your outboard engine and its analog gauges. Once correctly installed, the harness facilitates the transmission of data for various engine parameters, such as RPM, trim, oil pressure, and temperature, depending on your specific gauge setup.

Proper operation is indicated by accurate and consistent readings on your connected gauges when the engine is running. No direct user interaction with the harness itself is required during normal operation.

4. Maintenance

Regular inspection and basic maintenance will help ensure the longevity and reliability of your instrument line harness.

- **Visual Inspection:** Periodically inspect the entire length of the harness for any signs of wear, fraying, cuts, or damage to the outer conduit. Check for corrosion on terminals.
- **Connection Security:** Ensure all connections, both at the engine and at the gauges, remain tight and secure. Loose connections can lead to intermittent gauge readings.
- **Cleaning:** If necessary, gently clean the harness and connectors with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure connectors are dry before re-establishing power.
- **Routing:** Confirm that the harness remains properly routed and secured, away from heat sources, sharp edges, and moving engine components.

5. Troubleshooting

If you experience issues with your instrument gauges after installing the SouthMarine harness, consider the following troubleshooting steps:

- **No Gauge Reading:**
  - Check if the main harness connector is fully seated and locked into the engine receptacle.
  - Verify that individual wires are correctly connected to their respective gauge terminals and are not loose or corroded.
  - Inspect for any breaks or damage along the wire length.
  - Ensure the gauge itself is functioning correctly (test with a known good signal if possible).
- **Intermittent or Erratic Readings:**
  - Check for loose or corroded connections at both ends of the harness.
  - Inspect for any signs of insulation damage that could lead to short circuits or signal interference.
- **Incorrect Readings:**
  - Confirm that the correct wire is connected to the correct terminal on the gauge. Refer to your engine or gauge wiring diagram.
  - Ensure the gauge is calibrated correctly, if applicable.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional marine technician or contact SouthMarine customer support.

6. Specifications

Feature	Detail
Brand	SouthMarine
OEM Part Numbers	84-892990T01, 84-892990A01
Length	5 feet (approximately 1.6 meters)
Compatibility	Mercury, Mariner, Quicksilver, Mercruiser Outboard Engines
Engine Type (Recommended)	4 Stroke
Operation Mode	Electric

Feature	Detail
Color	White with Black components (harness conduit is black)
Item Weight	153 Grams (approx. 5.4 ounces)
Package Dimensions	7.99 x 7.91 x 2.24 inches

7. Warranty and Support

7.1 Warranty Information

SouthMarine products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official SouthMarine website. Generally, products are covered against manufacturing defects for a specified period from the date of purchase.

7.2 Customer Support

If you have any questions regarding the installation, operation, or troubleshooting of your SouthMarine Instrument Line Harness Assembly, please do not hesitate to contact our customer support team. We can provide further assistance, including wiring diagrams if required.

Contact Information: Please refer to the seller's contact details on your purchase platform or the official SouthMarine website for the most current support information.

You can also visit the **SouthMarine Store on Amazon** for more product information and support resources.

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