SouthMarine JN-RCC-0176340

SouthMarine 0176340 176340 SystemCheck Main Modular Wiring Harness Cable User Manual

Model: JN-RCC-0176340

1. Product Overview

The SouthMarine 0176340 176340 SystemCheck Main Modular Wiring Harness Cable is designed to facilitate electrical connections in marine outboard motor systems. This 15-foot (4.572m) cable serves as a crucial component for integrating various electrical functions, including SystemCheck monitoring, conventional tachometer leads, trim gauge leads, ignition, trim switch connections, and horn connections.
It is compatible with 1996 and newer Modular Wiring Systems. For certain 1991 through 1995 outboards, a separate cable adapter is required for installation.



Image 1.1: The SouthMarine 0176340 176340 SystemCheck Main Modular Wiring Harness Cable, coiled and ready for installation.

2. Installation Guide

Proper installation of the wiring harness is essential for safe and reliable operation of your outboard motor's electrical system. It is recommended that installation be performed by a qualified marine technician.

2.1 Compatibility and Pre-installation Checks

- Verify that the harness (OEM part number 0176340 / 176340) is compatible with your outboard motor's Modular Wiring System (MWS). This harness is primarily designed for 1996 and newer models.
- For 1991-1995 outboards, a separate cable adapter (not included) is required. Ensure you have the correct adapter before proceeding.
- Disconnect the battery power to the outboard motor before beginning any electrical work to prevent accidental shorts or injury.
- Inspect the harness for any visible damage, kinks, or exposed wires.

2.2 Connection Points

The harness provides connections for the following components:

1. **SystemCheck Connection:** Connects to a 2-inch gauge, tachometer with lights, or horn driver module for engine monitoring.
2. **Conventional Tach Leads:** Used when the SystemCheck engine monitor tachometer is not utilized.
3. **Trim Gauge Leads:** For connecting to the trim gauge.
4. **Ignition:** Connects to a pre-wired control or key switch kit.
5. **Trim Switch Connection:** Connects to the trim switch located in the control handle or a dash-mounted trim switch.
6. **Horn Connection:** For connecting to the horn, typically supplied with pre-wired controls and key switch kits.



Image 2.1: Detailed view of the harness connectors, illustrating the different types for various functions.

2.3 Installation Steps

- Carefully route the wiring harness from the remote control box to the outboard motor, ensuring it is protected from sharp edges, heat sources, and moving parts.
- Connect each labeled connector to its corresponding component. Ensure all connections are secure and fully seated.
- For the 5006180 remote control box, use the appropriate wiring harness adapter if necessary.
- Secure the harness using cable ties or clips to prevent chafing or entanglement.
- Once all connections are made, re-connect the battery power.
- Perform a system check to ensure all connected components (tachometer, trim gauge, horn, ignition) function correctly.

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Video 2.1: An overview of the Outboard System Check Main Modular Wiring Harness Cable, demonstrating its various connectors and

overall construction. This video provides a visual guide to the product's components.

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Video 2.2: This video showcases an engine adapter harness, which may be necessary for connecting the main wiring harness to certain older outboard motor models (1991-1995). It illustrates the physical characteristics of such an adapter.

3. Operation and System Check

Once the wiring harness is installed, the connected systems should operate as intended. The SystemCheck feature provides diagnostic information about your engine's health.

- **Ignition:** Turn the key to the "ON" position to power the system, and then to "START" to engage the engine.
- **Trim/Tilt:** Operate the trim switch to adjust the outboard motor's trim angle. Ensure smooth and responsive movement.
- **Tachometer/Gauges:** Monitor the tachometer and other connected gauges (e.g., trim gauge) for accurate readings once the engine is running.
- **Horn:** Test the horn function to ensure it is operational.
- **SystemCheck Lights/Alarms:** Observe any SystemCheck indicator lights or listen for alarms during engine startup and operation. Refer to your outboard motor's specific manual for interpreting SystemCheck codes or signals.

4. Maintenance

Regular inspection and maintenance of your wiring harness will help ensure its longevity and reliable performance.

- **Visual Inspection:** Periodically inspect the entire length of the harness for signs of wear, fraying, cuts, or corrosion, especially at connection points and areas exposed to movement or environmental elements.
- **Connection Integrity:** Check all connectors to ensure they are clean, dry, and securely fastened. Loose connections can lead to intermittent electrical issues.
- **Corrosion Prevention:** In marine environments, apply a marine-grade dielectric grease or anti-corrosion spray to electrical connections to protect against moisture and salt.
- **Cable Routing:** Ensure the harness remains properly routed and secured, preventing it from rubbing against sharp edges or being pinched.
- **Cleaning:** Clean the harness exterior with a mild, non-abrasive cleaner and a soft cloth. Avoid using harsh chemicals that could damage the insulation.

5. Troubleshooting

If you experience issues with your electrical system after installing the SouthMarine wiring harness, consider the following troubleshooting steps:

- **No Power/Intermittent Power:**
  - Check battery connections for tightness and corrosion.
  - Verify all harness connectors are fully seated and locked.
  - Inspect the harness for any visible damage or breaks in the wiring.
  - Check fuses in the system, if applicable.
- **Gauges Not Working (Tachometer, Trim Gauge):**
  - Ensure the specific gauge leads are correctly connected to the respective gauges.
  - Confirm the gauges themselves are functioning by testing with a known good signal or another harness if

possible.
    - For SystemCheck tachometers, ensure the SystemCheck connection is secure.
- **Trim/Tilt Not Responding:**
    - Verify the trim switch connection on the harness is secure.
    - Test the trim switch itself for functionality.
    - Check the trim motor and associated relays/fuses.
- **Horn Not Working:**
    - Ensure the horn connection on the harness is properly made.
    - Test the horn directly to confirm it is not faulty.
- **Incompatible Connectors:** Some users have reported issues with connector types. Double-check that the connectors on your harness match those on your motor and control box. If an adapter is needed for older models, ensure it is correctly installed.

If issues persist after basic troubleshooting, it is recommended to consult a professional marine technician or contact SouthMarine customer support.

6. Product Specifications

Feature	Detail
Brand	SouthMarine
Model Number	JN-RCC-0176340
OEM Part Number	0176340, 176340
Cable Length	15 feet (4.572 meters)
Compatibility	1996 and newer Modular Wiring Systems; certain 1991-1995 outboards with separate adapter. For Evinrude, Johnson, OMC Outboard Motor Remote Control Box 5006180.
Material	Lead (referring to wiring material)
Connector Type	IDC (Insulation-Displacement Connector) and other specific marine connectors
Item Weight	3.31 pounds
Package Dimensions	12.4 x 9.7 x 1.7 inches

7. Warranty and Support

For specific warranty information regarding your SouthMarine wiring harness, please refer to the documentation provided with your purchase or contact SouthMarine customer service directly. Keep your proof of purchase for any warranty claims.
For technical support or further assistance with installation and troubleshooting, please visit theSouthMarine Store on

Amazon or contact their authorized service centers.

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