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SouthMarine 853805T01

SouthMarine Boat Motor Starter (Model 853805T01) Instruction Manual

For Mercury Mariner 9.9HP, 10HP, 15HP, 20HP, 25HP, 30HP Outboard Engines

1. Introduction

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your SouthMarine Boat Motor Starter, Model 853805T01. Please read this manual thoroughly before attempting any procedures to ensure safe and correct usage. Retain this manual for future reference.

2. Product Compatibility

This starter motor is designed as a replacement part for various Mercury Mariner outboard engines. It is compatible with the following engine horsepower ratings:

- 9.9HP
- 10HP
- 15HP
- 20HP
- 25HP
- 30HP

This unit replaces the following part numbers:

- **MERCURY MARINE:** 50-853805T03, 853805A3, 8M0147039, 50-8M0188334
- **SIERRA MARINE:** 18-6432
- **API MARINE:** MOT5005, MOT5005N
- **ARCO MARINE:** 3412
- **ARROWHEAD:** SHI0052
- **ARROWHEAD (OEM):** S108-120
- **CARGO:** 112008
- **EMP PARTS:** 4-6432
- **HITACHI:** S108-112, S108-120, S108-94, S108-94A/B/C
- **J & N:** 410-44032
- **LESTER:** 18319
- **WAI:** 18319N, 2-2168-HI

3. Safety Information

Always observe the following safety precautions when working with marine electrical systems and engine components:

- Disconnect the battery before performing any installation or maintenance to prevent electrical shock or short circuits.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the work area is well-ventilated and free from flammable materials.
- If you are unsure about any installation steps, consult a qualified marine technician.
- Avoid touching hot engine components during or immediately after operation.

4. Package Contents

The package contains one (1) SouthMarine Boat Motor Starter, Model 853805T01.



Figure 4.1: Overview of the SouthMarine Boat Motor Starter. This image displays the complete starter unit, highlighting its main body, gear assembly, and electrical terminal.

5. Setup and Installation

Proper installation is crucial for the reliable operation of your starter motor. Follow these steps carefully:

1. **Preparation:** Ensure the boat's battery is disconnected. Locate the existing starter motor on your outboard engine.
2. **Removal of Old Starter:** Disconnect all electrical wiring from the old starter motor. Note the position and connection of each wire. Remove the mounting bolts securing the old starter to the engine block. Carefully extract the old starter.
3. **Inspection:** Inspect the mounting area and flywheel for any damage or debris. Clean as necessary.
4. **Installation of New Starter:** Position the new SouthMarine starter motor (Model 853805T01) into the mounting location. Ensure the gear aligns correctly with the flywheel. Secure the starter with the appropriate mounting bolts. Tighten bolts to the manufacturer's specified torque (refer to your engine's service manual for exact specifications).



Figure 5.1: Top-down view of the starter motor. This image illustrates the mounting flange with bolt holes, crucial for securing the starter to the engine block.

5. **Electrical Connections:** Reconnect the electrical wiring to the new starter motor. Typically, this involves a large positive battery cable and a smaller solenoid activation wire. Ensure all connections are clean, tight, and free from corrosion.



Figure 5.2: Rear view of the starter motor. This image highlights the main electrical terminal where the battery cable connects.

6. **Final Checks:** Double-check all connections and mounting bolts. Ensure no tools or debris are left in the engine compartment.
7. **Battery Reconnection:** Reconnect the boat's battery.

It is recommended to consult your specific engine's service manual for detailed installation procedures and torque specifications.

6. Operating Instructions

The starter motor operates as part of your engine's starting system. Once installed, its operation is integrated with your boat's ignition system.

1. Ensure the engine is in neutral or park, as required by your outboard engine's safety interlocks.
2. Turn the ignition key to the 'START' position. The starter motor will engage the engine's flywheel, rotating the crankshaft to initiate combustion.
3. Once the engine starts, release the ignition key. The starter motor will disengage automatically.

Avoid prolonged cranking (more than 10-15 seconds) to prevent overheating the starter motor. Allow a brief cool-down period

between starting attempts.

7. Maintenance

Regular inspection and basic maintenance can extend the life of your starter motor:

- **Visual Inspection:** Periodically check the starter motor for signs of corrosion, loose wiring, or physical damage.
- **Electrical Connections:** Ensure all electrical connections remain clean and tight. Corrosion on terminals can impede current flow and affect starter performance.
- **Mounting Bolts:** Verify that the mounting bolts are secure and have not loosened due to engine vibration.
- **Cleaning:** Keep the starter motor free from excessive dirt, oil, or salt residue. Use a clean, dry cloth to wipe down the exterior.

8. Troubleshooting

If you encounter issues with your starter motor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Starter does not engage or click	Dead or low battery; Loose or corroded battery cables; Faulty ignition switch; Faulty solenoid; Wiring issue.	Check battery charge and terminals; Inspect and clean battery cables; Test ignition switch and solenoid; Check wiring for breaks or shorts.
Starter cranks slowly	Low battery charge; Corroded battery cables; Excessive engine drag; Internal starter issue.	Charge or replace battery; Clean battery terminals and cables; Check engine for mechanical issues; If problem persists, starter may need inspection.
Starter spins but engine does not crank	Faulty Bendix drive (starter gear); Damaged flywheel teeth.	Inspect starter gear and flywheel for damage. Replacement of starter or flywheel may be necessary.

If these troubleshooting steps do not resolve the issue, it is recommended to seek assistance from a qualified marine mechanic.

9. Specifications

Key specifications for the SouthMarine Boat Motor Starter (Model 853805T01):

- **Brand:** SouthMarine
- **Model Number:** 853805T01
- **Material:** Metal
- **Item Weight:** 2.21 Kilograms (4.88 Pounds)
- **Amperage:** 12 Amps
- **Voltage:** 12 Volts
- **Package Dimensions:** 9.84 x 4.57 x 4.53 inches



Figure 9.1: Dimensional drawing showing overall height (189.87mm/7.48in), body length (109.4mm/4.31in), shaft length (18.06mm/0.71in), and number of splines (9).



Figure 9.2: Dimensional drawing illustrating mounting hole distances (e.g., 66.95mm/2.64in, 48.51mm/1.91in) and body diameter (68.3mm/2.69in).

10. Warranty and Support

SouthMarine products are manufactured to high-quality standards. For information regarding warranty coverage, claims, or technical support, please refer to the contact information provided with your purchase or visit the official SouthMarine website. Keep your proof of purchase for warranty purposes.

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