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SouthMarine 817275Q05

SouthMarine Water Pump Repair Kit with Housing for Mercury MerCruiser Alpha One Gen Two Drives - Instruction Manual

Model: 817275Q05, 817275K05, 817275T4, 817275Q4

1. Product Overview

This manual provides detailed information for the SouthMarine Water Pump Repair Kit with Housing. This kit is designed to replace worn or damaged components in the water pump system of compatible Mercury MerCruiser Alpha One Gen Two drives, ensuring proper engine cooling and performance.



Image 1.1: Overview of the SouthMarine Water Pump Repair Kit components, including the housing, impeller, gaskets, and seals.

2. Compatibility

This water pump repair kit is compatible with the following marine engine configurations:

- **Engine Position:** Alpha One 1 Gen Two 2 II Drives
- **Engine Horsepower:** 200HP, 225HP, 250HP, 300HP
- **Engine Displacement:** 3.0L
- **Specific Models:** Mercruiser Alpha I Gen II stern drives from serial number D469859 and above (approximately 1992+).

Replaces Part Numbers: 817275Q05, 817275K05, 817275T4, 817275Q4, 18-3147 (Sierra), 9-48315 (Mallory).
If you are uncertain about compatibility, please provide your engine serial number to a qualified marine technician

for verification.

3. Kit Contents

The SouthMarine Water Pump Repair Kit includes the following components:

Part Number (if applicable)	Component Description
18-2354	Carrier Seal
18-3056	Impeller (6-blade with key drive)
18-3122	Impeller Plate
18-3293	Impeller Key
18-7420	O-Ring
18-2944	Seal Ring
18-2599	Face Seal and Tool
18-2564	Impeller Gasket
18-2566	Impeller Gasket
18-2945	Drain Screw Gasket

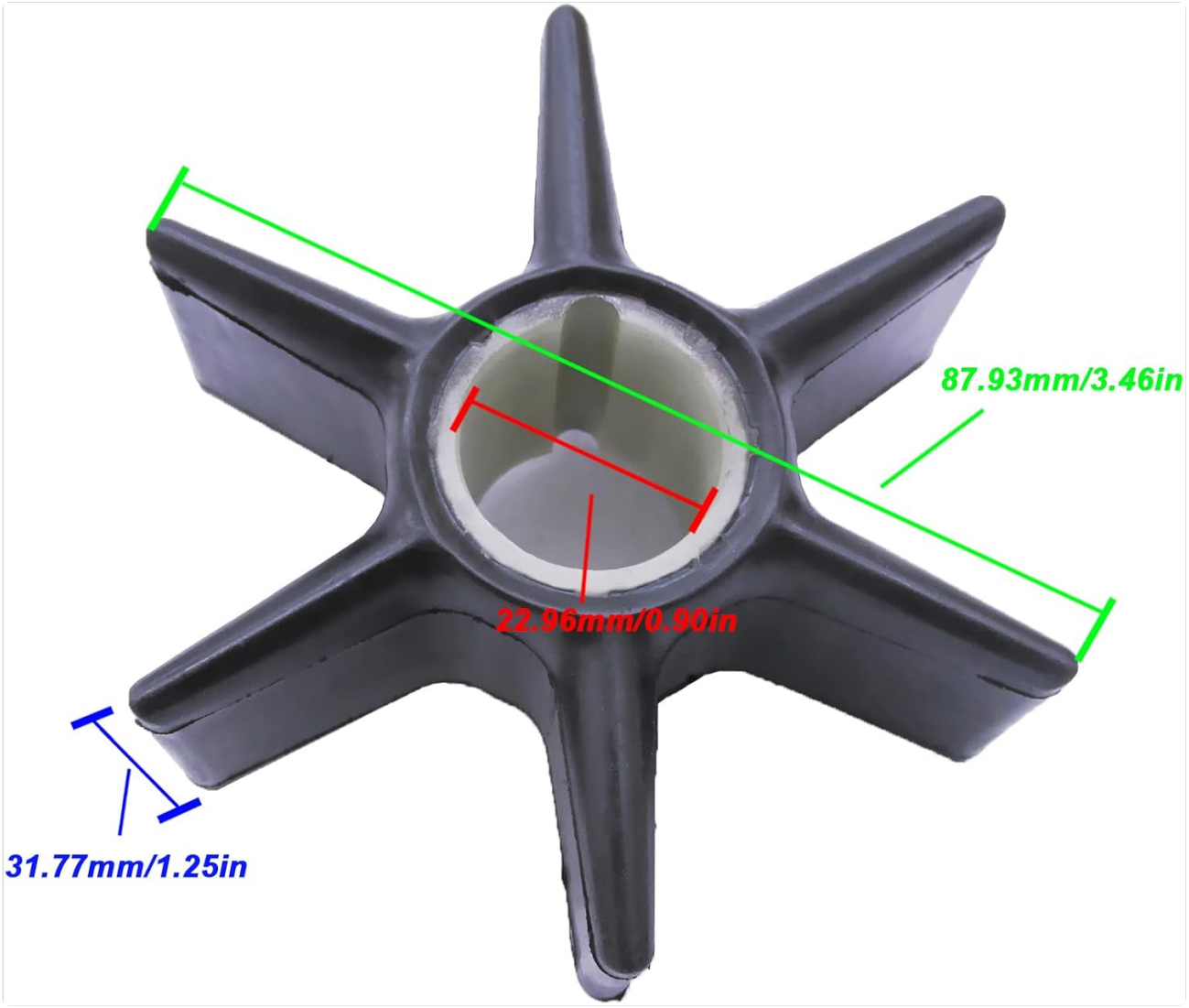


Image 3.1: Detailed view of the impeller, showing key dimensions for verification.

4. Installation and Maintenance

Warning: Installation of this water pump repair kit requires specialized knowledge and tools. Improper installation can lead to engine damage or failure. It is highly recommended that installation be performed by a certified marine technician.

4.1. Preparation

1. Ensure the engine is turned off and cooled down. Disconnect the battery to prevent accidental starting.
2. Refer to your engine's specific service manual for detailed instructions on accessing the water pump housing.
3. Gather all necessary tools, including wrenches, screwdrivers, and a clean work area.

4.2. Removal of Old Components

1. Carefully remove the existing water pump housing and associated components. Note the orientation and position of each part.
2. Inspect the removed parts for signs of wear, corrosion, or damage.
3. Clean the mounting surfaces thoroughly, removing any old gasket material or debris.

4.3. Installation of New Components

1. Install the new gaskets, seals, and impeller plate as per your engine's service manual. Ensure all surfaces are clean and properly aligned.
2. Lubricate the new impeller with a small amount of water or silicone grease before installation to prevent damage during initial startup.
3. Install the impeller, ensuring the impeller key is correctly seated in the shaft keyway. The impeller vanes should be oriented correctly for proper water flow.
4. Assemble the water pump housing, ensuring all bolts are tightened to the manufacturer's specified torque settings.
5. Reconnect all hoses and fittings securely.

4.4. Post-Installation Check

1. Reconnect the battery.
2. Start the engine in a safe, controlled environment (e.g., with muffs or in water).
3. Visually inspect for any leaks around the water pump housing.
4. Monitor the engine temperature gauge to ensure proper cooling system operation.

4.5. Routine Maintenance

Regular inspection of your water pump system is crucial for preventing engine overheating. It is recommended to inspect or replace the water pump impeller and associated components annually or every 100 hours of operation, whichever comes first, especially in saltwater environments.

5. Troubleshooting

If you experience issues after installing the water pump repair kit, consider the following:

- **No Water Flow / Overheating:**
  - Verify correct impeller installation and orientation.
  - Check for air leaks in the water intake system.
  - Ensure all gaskets and seals are properly seated and not damaged.
  - Inspect water intake for blockages.
- **Water Leaks:**
  - Re-check all connections and hose clamps.
  - Ensure housing bolts are tightened to specifications.
  - Inspect gaskets and O-rings for proper seating and damage.

For persistent issues, consult a qualified marine technician. Do not operate the engine if it is overheating.

6. Specifications

- **Item Weight:** 1.45 pounds (approximately 0.66 kg)
- **Package Dimensions:** 6.3 x 6.3 x 5.12 inches (approximately 16 x 16 x 13 cm)
- **Impeller Type:** 6-blade with key drive
- **Material:** Durable marine-grade components

7. Warranty and Support

For information regarding warranty coverage or technical support for your SouthMarine Water Pump Repair Kit, please contact the manufacturer directly through their official channels. Keep your purchase receipt as proof of purchase.
Manufacturer: SouthMarine
For further assistance, please refer to theSouthMarine Store on Amazon.

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