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SouthMarine SU-PA-A520

SouthMarine 58110-97JA0-019 Aluminum Alloy Propeller

INSTRUCTION MANUAL

Product Overview

This manual provides essential information for the installation, operation, and maintenance of your SouthMarine 58110-97JA0-019 Aluminum Alloy Propeller. This propeller is specifically designed for Suzuki 2.5hp DF2.5 Outboard Motors, model A520, with dimensions 7 1/2x6. Proper use and care will ensure optimal performance and longevity of the product.



Figure 1: Top view of the SouthMarine Aluminum Alloy Propeller, showcasing its three-blade design and central hub.

Product Features

- **Material:** Constructed from durable Aluminum Alloy for corrosion resistance and strength.
- **Number of Blades:** Features a 3-blade design for efficient propulsion.
- **Number of Spline:** Equipped with 10 splines for secure fitment on compatible shafts.
- **Color:** Black finish.
- **Condition:** New.

Specifications

Specification	Detail
Brand	SouthMarine
Model Number	SU-PA-A520
Part Number	58110-97JA0-019
Size	7 1/2 x 6
Material	Aluminum Alloy

Number of Blades	3
Number of Spline	10
Color	Black
Compatible Engine Type	Suzuki 4-stroke DF2.5 Outboard Motors
Item Weight	10.4 ounces
Package Dimensions	7.7 x 6.3 x 2.4 inches

Setup and Installation

Proper installation is crucial for the safe and efficient operation of your outboard motor. Always refer to your Suzuki DF2.5 outboard motor's specific service manual for detailed instructions and safety precautions.

Safety First

- Ensure the engine is turned off and the ignition key is removed.
- Place the gear shift in neutral.
- Disconnect the battery if possible to prevent accidental starting.
- Wear appropriate personal protective equipment, including gloves, to protect hands from sharp edges.

Tools Required

- Propeller wrench or appropriate socket.
- Pliers (for cotter pin removal/installation).
- Grease (marine-grade, for propeller shaft).
- New cotter pin (recommended).

Installation Steps

1. **Remove Old Propeller:**

   If replacing an existing propeller, straighten and remove the cotter pin from the propeller nut. Unscrew the propeller nut and carefully slide off the washer, spacer, and the old propeller from the propeller shaft. Be mindful of any thrust washers or shims behind the propeller.



Figure 2: Bottom view of the propeller, highlighting the 10-spline hub designed for secure shaft engagement.

2. **Inspect Shaft:**

   Clean the propeller shaft thoroughly. Inspect the shaft for any damage, corrosion, or debris. Apply a thin layer of marine-grade grease to the propeller shaft to prevent corrosion and facilitate future removal.

3. **Install New Propeller:**

   Slide the new SouthMarine propeller onto the greased shaft, ensuring the splines align correctly. Make sure any thrust washers or spacers are in their correct positions behind the propeller. The propeller should slide on smoothly until it seats against the gearcase.



Figure 3: Top view of the propeller, illustrating the spline count and key dimensions for fitment verification.

4. **Secure Propeller:**

   Place the outer washer and propeller nut onto the shaft. Tighten the propeller nut firmly. Align the nut with the hole in the shaft and insert a new cotter pin. Bend the ends of the cotter pin around the nut to secure it in place. Do not reuse old cotter pins as they may be fatigued.



Figure 4: Side profile of the propeller, indicating a key dimension of 43.54mm (1.71 inches) from the hub to the blade tip.



Figure 5: Detailed top view of the propeller, showing various measurements including the inner diameter of the hub (12.45mm) and the outer diameter of the hub (50.45mm).

5. **Final Check:**

   Ensure the propeller is securely fastened and spins freely without obstruction. Reconnect the battery if it was disconnected.

Installation Video Guide

For a visual guide on propeller installation, please refer to the official product video below. This video demonstrates the propeller from various angles, which can assist in understanding its structure and fitment.

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Video 1: A 360-degree view of the SouthMarine Aluminum Alloy Propeller, demonstrating its design and features. This can be helpful for visual confirmation during installation.

Operating Considerations

Once installed, the propeller functions as an integral part of your outboard motor's propulsion system. While the propeller itself does not require active operation, understanding its role is important for optimal boating performance.

- **Initial Run:** After installation, perform a brief test run in a safe area to ensure the propeller is securely attached and there are no unusual vibrations or noises.

- **Performance:** This propeller is designed to provide balanced performance for the specified Suzuki DF2.5 outboard motor. Factors like boat load, water conditions, and engine tuning can affect overall performance.
- **Avoid Obstructions:** Always be mindful of shallow water, submerged objects, and debris that could damage the propeller.

Maintenance

Regular maintenance of your propeller will extend its lifespan and ensure continued efficient operation.

- **Regular Inspection:** Periodically inspect the propeller for signs of damage such as bent blades, nicks, cracks, or excessive wear. Even minor damage can lead to reduced performance and increased vibration.
- **Cleaning:** After each use, especially in saltwater, rinse the propeller with fresh water to remove salt, sand, and marine growth. This helps prevent corrosion and buildup.
- **Corrosion Prevention:** Ensure the propeller shaft is adequately greased during installation and re-grease annually or as recommended by your outboard motor's manual.
- **Storage:** If storing the boat for an extended period, consider removing the propeller for thorough cleaning and inspection. Store it in a safe place to prevent accidental damage.

Troubleshooting

If you experience issues with your outboard motor's performance, the propeller may be a contributing factor. Here are some common issues and potential solutions:

Problem	Possible Cause	Solution
Excessive Vibration	Damaged or bent propeller blade; debris wrapped around propeller; loose propeller nut.	Inspect propeller for damage and replace if necessary. Clear any debris. Tighten propeller nut and ensure cotter pin is secure.
Reduced Speed/Performance	Damaged propeller; incorrect propeller size for application; engine issues.	Inspect propeller for damage. Verify propeller specifications match engine requirements. Consult an engine mechanic if propeller is not the issue.
Propeller Cavitation/Ventilation	Engine mounted too high; damaged propeller; excessive trim angle.	Check engine mounting height. Inspect propeller for damage. Adjust trim angle.
Propeller Won't Turn	Obstruction; damaged gearcase; spun propeller hub.	Check for and remove obstructions. If hub is spun (engine revs but propeller doesn't turn), replace propeller. Consult a mechanic for gearcase issues.

Warranty and Support

For information regarding warranty coverage or technical support for your SouthMarine propeller, please contact the seller or manufacturer directly. Keep your purchase receipt and product details handy for any inquiries.
You can visit the official SouthMarine store for more information:SouthMarine Store

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