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ninawesome FSM031, 335154, 335155, 335148

ninawesome Trim Cylinder End Cap Instruction Manual

Model Numbers: FSM031, 335154, 335155, 335148
Brand: ninawesome

Introduction

This manual provides comprehensive instructions for the installation, maintenance, and general information regarding the ninawesome Trim Cylinder End Cap. This component is designed as a direct replacement part for specific Evinrude and Johnson outboard motors. Please read this manual thoroughly before proceeding with installation or maintenance.

Product Overview

The ninawesome Trim Cylinder End Cap is a precision-engineered component for your outboard motor's trim and tilt unit, ensuring reliable operation and durability in marine environments.

Key Features:

- **Material:** Constructed from high-quality CNC Billet Aluminum with an anodized coating for enhanced durability.
- **Corrosion Resistance:** Designed to be anti-corrosion and anti-rust, suitable for harsh marine conditions.
- **Precision Engineering:** Features tighter tolerances and higher precision for optimal performance and a reliable fit.

Package Contents:

- 1 x Outboard Trim Cap End Cap



Figure 1: Top-side view of the ninawesome Trim Cylinder End Cap, showcasing its threaded base and four bolt holes.

Compatibility

This Trim Cylinder End Cap is specifically designed for use with the following outboard motor models:

- Evinrude Johnson 1989-2003 25-35 HP 3-Cylinder Motors
- Evinrude Johnson 1989-2003 40, 48, 50 HP Motors

It is intended for motors equipped with a single ram trim and tilt unit.

Replaces the following OEM Part Numbers:

- 335154, 335155, 335148, 335149, FSM031
- 435566, 435567, 0435567, 0339849
- 033566, 0333496, 0912298, 091229



Figure 2: Visual representation of the fitment details for compatible Evinrude and Johnson outboard motors.

Installation Instructions

Warning: Installation of marine engine components should ideally be performed by a qualified marine technician. Ensure the motor is turned off and disconnected from power before beginning any work. Wear appropriate safety gear, including eye protection and gloves.

Required Tools (Not Included):

- Appropriate wrench or socket set for your specific motor
- Seal pick or small flat-head screwdriver (for seal removal, if applicable)
- Marine grease or sealant (as recommended by motor manufacturer)
- Hydraulic fluid (if refilling is necessary)

Procedure:

1. **Preparation:** Ensure the outboard motor is securely mounted and the trim and tilt unit is in a position that allows safe and unobstructed access to the trim cylinder.
2. **Fluid Drainage (if necessary):** If replacing a leaking cap or performing other hydraulic system work, you may need to drain some hydraulic fluid from the trim system. Refer to your motor's service manual for specific instructions on fluid drainage and handling.
3. **Remove Old End Cap:** Carefully loosen and remove the existing trim cylinder end cap. Pay close attention to the orientation of any seals or O-rings during removal.
4. **Inspect Cylinder:** Thoroughly clean the cylinder bore and inspect it for any signs of damage, corrosion, or debris. Ensure the sealing surfaces are clean and smooth.
5. **Install New End Cap:** Apply a thin, even layer of marine grease to the new end cap's threads and any O-rings (if present) to aid in installation and sealing. Carefully thread the new ninawesome Trim Cylinder End Cap into place by hand to avoid cross-threading.
6. **Tighten:** Using the appropriate tool, tighten the end cap to the manufacturer's specified torque. Consult your motor's service manual for exact torque specifications. Avoid over-tightening, as this can damage the cap or cylinder.
7. **Refill/Bleed System:** If hydraulic fluid was drained, refill the hydraulic system with the recommended marine hydraulic fluid and bleed any air from the system according to your motor's service manual. This step is crucial for

proper trim and tilt function.

8. **Test Operation:** Slowly operate the trim and tilt unit through its full range of motion, both up and down. Carefully check for any signs of leaks around the newly installed end cap and observe for proper, smooth function of the trim and tilt system.



Figure 3: Side view of the Trim Cylinder End Cap, highlighting the precision-machined threads for secure installation.



Figure 4: Bottom view of the Trim Cylinder End Cap, showing the internal structure and sealing surface.

Maintenance

Regular inspection and maintenance will ensure the longevity and proper function of your trim cylinder end cap and the overall trim and tilt system.

- **Periodic Inspection:** Regularly check the end cap for any signs of leaks, visible corrosion, or physical damage. Address any issues promptly.
- **Cleaning:** After use, especially in saltwater environments, clean the exterior of the end cap and surrounding trim unit components with fresh water to prevent salt buildup and corrosion.
- **Lubrication:** Ensure all moving parts of the trim and tilt system are adequately lubricated as per your outboard motor's service manual. Proper lubrication helps prevent wear and ensures smooth operation.

Troubleshooting

If you encounter issues after installation or during normal operation, consider the following common troubleshooting

steps:

- **Leaks Around End Cap:** If hydraulic fluid leaks are observed, re-check the tightness of the end cap. Inspect the O-rings for proper seating, damage, or wear. Ensure the hydraulic fluid level is correct.
- **Improper Trim Operation:** If the trim and tilt unit is not operating smoothly or fully, verify that the hydraulic system is properly filled with fluid and all air has been bled from the system. Check for any physical obstructions in the trim and tilt mechanism.

For persistent or complex issues, it is recommended to consult a qualified marine technician or refer to your specific outboard motor's service manual for detailed diagnostic procedures.

Specifications

Attribute	Detail
Brand	ninawesome
Model Name	Outboard Trim Cap End Cap
Item Weight	5.8 ounces
Package Dimensions	3.15 x 2.87 x 1.57 inches
Material	CNC Billet Aluminum with Anodized Coating
Replaces OEM Part Numbers	335154, 335155, 335148, 335149, FSM031, 435566, 435567, 0435567, 0339849, 033566, 0333496, 0912298, 091229

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