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> [INGQI Water Pump Impeller Kit Instruction Manual for Evinrude Johnson 85-115 HP V4 Outboard \(Model 5001594\)](#)

INGQI 5001594

INGQI Water Pump Impeller Kit Instruction Manual

Brand: INGQI | **Model:** 5001594

For Evinrude Johnson 85, 88, 90, 110, 112, 115 HP V4 Outboard Engines

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your INGQI Water Pump Impeller Kit. This kit is designed as a replacement for specific Johnson Evinrude outboard motors to ensure efficient engine cooling. Please read these instructions thoroughly before proceeding with any installation or maintenance.

2. PRODUCT OVERVIEW

The INGQI Water Pump Impeller Kit (Model 5001594) is a comprehensive repair solution for maintaining the cooling system of compatible outboard engines. It includes all necessary components for a complete water pump service.

2.1. Kit Components

- Impeller (6-blade design)
- Pump Housing
- Wear Plate
- Insert Cartridge
- Water Pump Gasket
- Water Seal
- O-Rings
- Grommets
- Key (White)
- Damper
- Bolts (various sizes)

2.2. Materials

The components are constructed from durable materials designed for marine environments, including hardened nylon and high-performance neoprene rubber, ensuring resistance to marine and chemical corrosion.

2.3. Compatibility

This kit is a direct replacement for Johnson Evinrude OMC BRP Part Number 5001594 (also referenced as 05001594, 395060, 435477, 434421, 395062). It is compatible with a wide range of Johnson Evinrude outboard engines, including but not limited to:

- 85, 88, 90, 110, 112, 115 HP V4 Outboards
- V4 / V6 / V8 models from 1982 - 1992
- V4 Cross 20" & 25" Models 1993-1998
- 90hp Looper (except SL Model) 1995-2006
- 115hp Looper (except SL Model) 1995-2006
- 120hp 1985 - 1992, 120hp "S" suffix 25" Models 1993, 120hp 20" Models 1994 - 2000
- 130hp 20" Models 1994 - 2000
- 135hp V4 20" Models 2001
- 140hp 1979-1981, 140hp 1985 - 1992, 140hp 20" Models 1994 - 2000
- 150hp 1979-1981, 150hp V6 20" Models 1993, 150hp "GL", "SL", & "SPL" 20" Models 1996 - 1999
- 175hp 1979-1981, 175hp V6 20" Models 1993, 175hp "GL", "SL", & "SPL" 20" Models 1996 - 1999
- 200hp 1979-1981, 200hp 1986 - 1992, 200hp 20" Models 1999, 200hp "HG" & "HGL" 2000
- 225hp 1986 - 1992, 225hp 20" Models 1999, 225hp "HG" & "HGL" 2000, 225hp DI 20" Models 1999
- 235hp 1979-1981
- Some 250hp-300hp 1985 & Later models

2.4. Product Images



Figure 1: All components included in the INGQI Water Pump Impeller Kit, showing the housing, impeller, gaskets, seals, and bolts.



Figure 2: Detailed view of the 6-blade neoprene rubber impeller with its central brass hub.



Figure 3: The water pump housing component, typically made of hardened nylon.



Figure 4: A gasket or seal component, crucial for maintaining water pressure and preventing leaks.

3. SAFETY INFORMATION

Always prioritize safety when working on marine engines. Failure to follow safety precautions can result in serious injury or damage to equipment.

- **Disconnect Battery:** Always disconnect the battery before performing any maintenance to prevent accidental engine starting.
- **Engine Cooling:** Ensure the engine is completely cool before beginning work to avoid burns from hot components or fluids.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and gloves, to protect against chemicals, sharp edges, and hot surfaces.
- **Ventilation:** Work in a well-ventilated area, especially if using cleaning solvents.
- **Proper Tools:** Use the correct tools for each task to prevent damage to fasteners and components.
- **Professional Assistance:** If you are unsure about any step of the installation process, consult a qualified marine mechanic.

4. SETUP AND INSTALLATION

The following steps outline a general procedure for replacing a water pump impeller kit. Specific procedures may vary slightly depending on your exact outboard model. Refer to your engine's service manual for detailed instructions.

1. Prepare the Outboard:

- Ensure the engine is off and cool.
- Disconnect the battery.
- Place the outboard in a position that allows easy access to the lower unit.

2. Remove the Lower Unit:

- Locate and remove all bolts securing the lower unit to the midsection of the outboard.
- Carefully lower the unit, ensuring the shift rod disengages.

3. Disassemble the Old Water Pump:

- Remove the bolts holding the water pump housing in place.
- Carefully lift off the housing, wear plate, and impeller. Note the orientation of the impeller blades.
- Remove all old gaskets, seals, and O-rings.

4. Clean the Mounting Area:

- Thoroughly clean the water pump mounting surface on the lower unit, removing any corrosion or old gasket material.

5. Install New Components:

- Install the new wear plate and insert cartridge, ensuring proper alignment.
- Lubricate the new impeller with a small amount of marine grease or liquid soap.
- Install the impeller into the pump housing, twisting it in the direction of engine rotation to properly seat the blades.
- Place new gaskets and seals as per your engine's service manual.
- Carefully position the new pump housing over the impeller and secure it with the new bolts, tightening them to the manufacturer's specified torque.

6. Reinstall the Lower Unit:

- Align the shift rod and drive shaft, then carefully lift the lower unit back into position.
- Ensure the water tube aligns with the water pump outlet.
- Secure the lower unit with all bolts, tightening them to specifications.

7. Final Checks:

- Reconnect the battery.
- Ensure all connections are secure and no tools are left in the engine compartment.

5. OPERATION

After installation, the water pump impeller kit will function to circulate cooling water through your outboard engine. Proper operation is indicated by a steady stream of water exiting the tell-tale (pee hole) shortly after the engine starts. This stream confirms that the cooling system is actively pumping water.

Important: Never run your outboard engine out of water, even for short periods, as this can severely damage the new impeller and other engine components.

6. MAINTENANCE

Regular maintenance of your water pump impeller is crucial for the longevity and performance of your outboard engine. The impeller is a wear item and requires periodic inspection and replacement.

- **Annual Inspection:** It is recommended to inspect the water pump impeller annually or every 100 hours of operation, whichever comes first.
- **Replacement Interval:** Replace the impeller every 2-3 years, or more frequently if operating in sandy or silty conditions, or if signs of wear are observed.
- **Check Tell-Tale:** Always check for a strong, consistent water stream from the tell-tale whenever the engine is running. A weak or intermittent stream indicates a potential cooling system issue.
- **Overheating:** If the engine overheats, immediately shut it down and investigate the cause. A faulty water pump impeller is a common reason for overheating.

7. TROUBLESHOOTING

Symptom	Possible Cause	Solution
No water or weak stream from tell-tale	Clogged water intake, worn impeller, blocked tell-tale hose.	Check water intake for debris. Inspect/replace impeller. Clear tell-tale hose.
Engine overheating	Ineffective water pump, thermostat issue, low engine coolant (if applicable).	Inspect water pump impeller and housing. Check thermostat. Ensure proper water flow.
Unusual noise from lower unit	Damaged impeller, loose components, foreign object.	Inspect water pump components for damage. Remove lower unit to check for obstructions.

If troubleshooting steps do not resolve the issue, it is recommended to seek assistance from a certified marine technician.

8. SPECIFICATIONS

- **Manufacturer:** INGQI
- **Item Model Number:** 5001594
- **Manufacturer Part Number:** INGD-333622147801
- **Replacement for OEM Part Numbers:** 5001594, 05001594, 395060, 435477, 434421, 395062
- **Materials:** Hardened Nylon, Neoprene Rubber
- **Number of Impeller Blades:** 6
- **Vehicle Service Type:** Boat (Outboard Engines)
- **Approximate Package Weight:** 660 g

9. WARRANTY AND SUPPORT

For any questions regarding the INGQI Water Pump Impeller Kit or for assistance with installation and troubleshooting, please contact INGQI customer support. While specific warranty details are not provided in this manual, please refer to your purchase documentation or contact the seller for warranty information.

We are committed to ensuring customer satisfaction and are available to provide further assistance if needed.