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Hitachi WUP0006

Instruction Manual

Hitachi WUP0006 Engine Water Pump

Model: WUP0006 | Brand: Hitachi

Product Overview

The Hitachi WUP0006 Engine Water Pump is a critical component designed to maintain optimal engine temperature by circulating coolant throughout the cooling system. This pump is engineered for high thermal efficiency and durability, featuring a cast aluminum housing for reduced weight and machined steel internals for robust performance. All steel components are powder coated to resist rust, ensuring long-term reliability.

Key Features:

- O-Ring/Gaskets included when applicable
- Tier 1 OE supplier for water pumps
- 100% NEW, never remanufactured
- Meets the OE performance and durability standards for this application
- Cast aluminum housing with machined steel internals for lightweight, durability, and high thermal efficiency

Package Contents

Upon opening the package, verify that all listed components are present:

- One (1) Hitachi WUP0006 Engine Water Pump
- Associated O-Rings/Gaskets (if applicable for the specific vehicle fitment)
- Documentation (this instruction manual)



Image: The Hitachi WUP0006 Engine Water Pump, showcasing its cast aluminum body and impeller.



Image: A typical water pump gasket, included for proper sealing during installation.

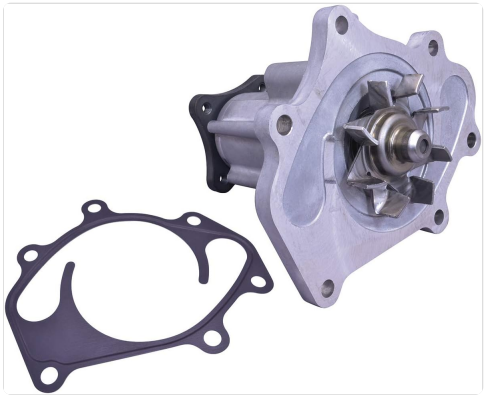


Image: The Hitachi WUP0006 Engine Water Pump shown alongside its accompanying gasket.

Installation Guidelines

Installation of an engine water pump requires mechanical expertise and specialized tools. It is highly recommended that installation be performed by a certified automotive technician. Improper installation can lead to engine damage or coolant leaks.

General Steps (Consult Vehicle Service Manual for Specifics):

1. **Safety First:** Ensure the vehicle engine is cool and the battery is disconnected. Wear appropriate personal protective equipment (PPE).
2. **Drain Coolant:** Properly drain the engine coolant into a suitable container.
3. **Remove Obstructions:** Disconnect any hoses, belts, or components that obstruct access to the water pump.

4. **Remove Old Pump:** Unbolt and carefully remove the old water pump. Be prepared for residual coolant.
5. **Clean Mounting Surface:** Thoroughly clean the engine block's water pump mounting surface, removing all old gasket material and debris.
6. **Install New Gasket:** Apply a thin, even coat of RTV sealant (if recommended by vehicle manufacturer) to both sides of the new gasket, then place it on the new water pump or engine block.
7. **Install New Pump:** Carefully position the new Hitachi WUP0006 water pump and secure it with the appropriate bolts. Tighten bolts to the vehicle manufacturer's specified torque settings in the correct sequence.
8. **Reassemble:** Reconnect all hoses, belts, and components that were removed.
9. **Refill Coolant:** Refill the cooling system with the correct type and amount of coolant as specified by the vehicle manufacturer. Bleed any air from the system.
10. **Test:** Start the engine and check for leaks. Monitor engine temperature closely during initial operation.

Note: *This is a general guide. Always refer to your vehicle's specific service manual for detailed, model-specific installation instructions and torque specifications.*

Operation

The Hitachi WUP0006 Engine Water Pump operates continuously when the engine is running, circulating coolant to dissipate heat and maintain the engine within its optimal operating temperature range. No user intervention is required for its operation once correctly installed.
Ensure your vehicle's cooling system is always filled with the appropriate coolant level and type. Regularly check the coolant reservoir and address any low levels promptly.

Maintenance

Proper maintenance of your vehicle's cooling system is essential for the longevity of the water pump and overall engine health. While the water pump itself is a sealed unit and does not require direct maintenance, the following practices are recommended:

- **Coolant Level Check:** Periodically inspect the coolant level in the reservoir and top up as needed with the correct coolant type.
- **Coolant Flush & Replacement:** Follow your vehicle manufacturer's recommendations for coolant flush and replacement intervals. Old or contaminated coolant can reduce cooling efficiency and potentially damage cooling system components.
- **Hose & Clamp Inspection:** Regularly check all coolant hoses for cracks, leaks, or swelling, and ensure hose clamps are secure.
- **Belt Inspection:** If your water pump is driven by a serpentine or timing belt, inspect the belt for wear, cracks, or proper tension according to your vehicle's service schedule.
- **Leak Detection:** Be vigilant for any signs of coolant leaks, such as puddles under the vehicle, a sweet smell, or visible residue around the water pump or hoses.

Troubleshooting

If you suspect an issue with your water pump or cooling system, consider the following common symptoms:

Symptom	Possible Cause	Action
Coolant Leak: Puddles under vehicle, sweet smell, visible residue.	Worn water pump seal, loose hose clamp, cracked hose, damaged gasket.	Inspect for source of leak. Tighten clamps, replace hoses or water pump/gasket if necessary.
Engine Overheating: Temperature gauge high, steam from engine.	Low coolant, faulty thermostat, clogged radiator, failing water pump (e.g., impeller issues).	Check coolant level. Have cooling system professionally diagnosed.
Whining/Grinding Noise: From front of engine.	Worn water pump bearing.	Water pump likely needs replacement.
Steam/Smoke from Engine:	Severe coolant leak, engine overheating.	*Immediately pull over safely and shut off engine.* Do not drive. Seek professional assistance.

Warning: *Working with a hot engine or cooling system can cause severe burns. Always allow the engine to cool completely before performing any inspections or maintenance. If you are unsure about any repair, consult a qualified mechanic.*

Product Specifications

Attribute	Detail
Brand	Hitachi
Model	WUP0006
Material	Aluminum, Alloy Steel
Item Weight	1.1 Pounds (approx. 0.5 kg)
OEM Part Number	21010-7S000
Automotive Fit Type	Vehicle Specific Fit
UPC	840151160051
Condition	100% NEW, never remanufactured

Warranty and Support

For specific warranty information regarding your Hitachi WUP0006 Engine Water Pump, please refer to the documentation included with your purchase or visit the official Hitachi Automotive Systems website. Warranty terms and conditions may vary.

If you require technical assistance or have questions about the product, please contact Hitachi customer support through their official channels. Always provide your product model number (WUP0006) and any relevant purchase details when seeking support.

For additional resources and product information, you may visit theHitachi Store on Amazon.

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