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Dayco DP903

Dayco DP903 Engine Water Pump Instruction Manual

Comprehensive guide for the installation, operation, and maintenance of your Dayco DP903 Engine Water Pump.

PRODUCT OVERVIEW

The Dayco DP903 is a genuine replacement engine water pump designed to circulate coolant through your vehicle's engine, maintaining optimal operating temperatures. This component is critical for preventing engine overheating and ensuring the longevity of your vehicle's cooling system.

- **Genuine Dayco Part:** Ensures compatibility and performance.
- **Direct Replacement:** Engineered to fit specific vehicle applications.
- **Includes Original Packaging and Hardware:** Facilitates a complete installation.

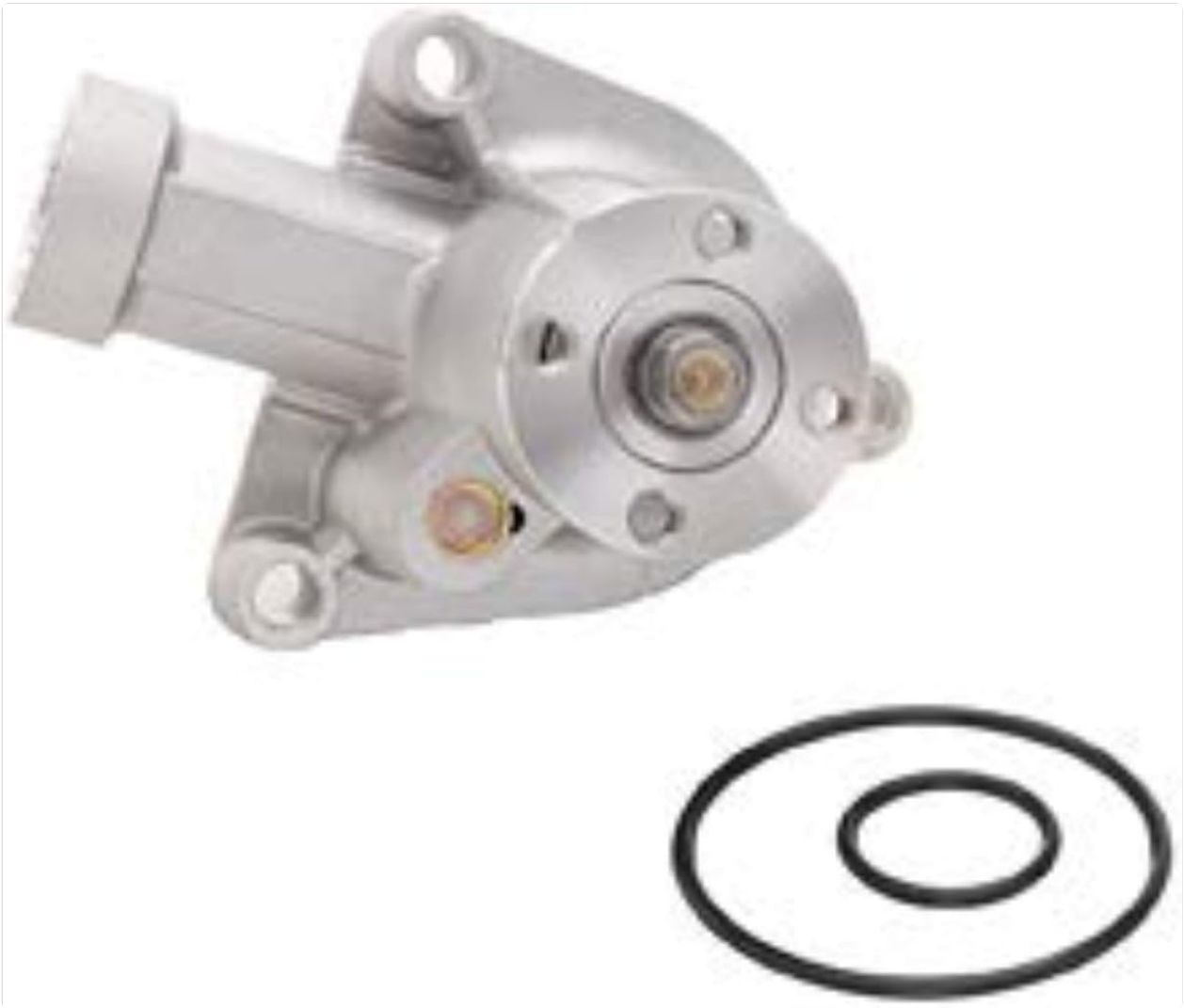


Figure 1: Front view of the Dayco DP903 Engine Water Pump, showing the main housing and included sealing gaskets.

IMPORTANT SAFETY INFORMATION

- Always allow the engine to cool completely before attempting any work on the cooling system. Hot coolant and engine components can cause severe burns.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- Dispose of old coolant responsibly according to local environmental regulations.
- Ensure the vehicle is securely supported on jack stands if working underneath.

PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 1 x Dayco DP903 Engine Water Pump
- Necessary Gaskets and Seals (as supplied by manufacturer)

SETUP AND INSTALLATION

Pre-Installation Checks

- Confirm vehicle fitment using the Amazon Confirmed Fit tool or your vehicle's service manual.
- Gather all necessary tools: wrenches, sockets, torque wrench, drain pan, coolant, scraper, etc.
- Inspect the new water pump for any visible damage or defects.

Installation Steps

1. **Drain Coolant:** Position a drain pan under the radiator and open the drain cock to completely drain the cooling system.
2. **Remove Drive Belts:** Loosen the tensioner and remove any drive belts connected to the water pump pulley.
3. **Disconnect Hoses:** Carefully disconnect all coolant hoses attached to the water pump. Be prepared for residual coolant.
4. **Remove Old Water Pump:** Unbolt the old water pump from the engine block. Note the position of all bolts.
5. **Clean Mounting Surface:** Thoroughly clean the engine block's mounting surface, removing all traces of old gasket material. Ensure the surface is smooth and dry.
6. **Install New Gasket:** Apply a thin, even coat of RTV sealant (if recommended by your vehicle's manual) to both sides of the new gasket, then place it onto the new water pump.
7. **Mount New Water Pump:** Carefully position the new Dayco DP903 water pump onto the engine block. Insert and hand-tighten all bolts.
8. **Torque Bolts:** Following your vehicle's service manual, tighten the water pump bolts to the specified torque in the correct sequence.
9. **Reconnect Hoses and Belts:** Reattach all coolant hoses and drive belts. Ensure hose clamps are secure and belt tension is correct.
10. **Refill Coolant:** Refill the cooling system with the manufacturer-recommended coolant. Bleed any air from the system as per your vehicle's manual.
11. **Test for Leaks:** Start the engine and allow it to reach operating temperature. Monitor for any leaks around the new water pump and check coolant levels.



Figure 2: Rear view of the Dayco DP903 Engine Water Pump, showing the impeller housing and pulley mounting surface.

OPERATING PRINCIPLES

The engine water pump is a centrifugal pump that circulates coolant from the radiator through the engine block and cylinder head passages, and then back to the radiator. This continuous flow of coolant absorbs excess heat from the engine and dissipates it through the radiator, preventing engine damage from overheating. The DP903 is designed to provide efficient and reliable coolant flow for its intended applications.

MAINTENANCE

Proper maintenance of your cooling system is crucial for the longevity of your water pump and engine.

Routine Inspection

- Regularly check coolant levels and top up with the correct type of coolant if necessary.
- Inspect hoses for cracks, leaks, or swelling. Replace damaged hoses promptly.
- Look for any signs of coolant leaks around the water pump housing or weep hole. A small amount of seepage from the weep hole can be normal during break-in, but persistent or heavy leakage indicates a problem.
- Check drive belts for proper tension and wear.

Coolant System Care

- Follow your vehicle manufacturer's recommendations for coolant flush and replacement intervals. Old or

contaminated coolant can lead to corrosion and premature water pump failure.

- Use only the specified type of coolant for your vehicle. Mixing different types can cause chemical reactions that damage cooling system components.

TROUBLESHOOTING

Symptom	Possible Cause	Solution
Engine Overheating	Low coolant level, faulty thermostat, clogged radiator, air in cooling system, failing water pump.	Check coolant level and condition. Inspect thermostat. Bleed air from system. If water pump is suspected, inspect for leaks or unusual noises.
Coolant Leak	Loose hose clamps, damaged hoses, faulty water pump gasket, crack in water pump housing.	Tighten clamps, replace hoses, inspect water pump for leaks from weep hole or gasket area. Replace water pump if necessary.
Grinding or Squealing Noise from Engine Front	Worn water pump bearing, loose or worn drive belt.	Inspect drive belt tension and condition. If noise persists and is localized to the water pump, replacement may be required.

SPECIFICATIONS

- **Model:** Dayco DP903
- **Manufacturer:** Dayco
- **Item Weight:** 3.9 pounds
- **Product Dimensions:** 9.3 x 6.04 x 5.4 inches
- **Exterior Finish:** Machined
- **Position:** Front, Rear (refer to vehicle specific application)
- **Vehicle Service Type:** Car, Truck (Vehicle Specific Fit)
- **UPC:** 036687988836

WARRANTY INFORMATION

Dayco products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Dayco website or contact Dayco customer support directly. Keep your proof of purchase for any warranty claims.

SUPPORT AND CONTACT INFORMATION

If you encounter issues not covered in this manual or require further assistance, please contact Dayco customer support through their official website or authorized distributors. When contacting support, please have your product model number (DP903) and vehicle information readily available.

For additional resources and technical bulletins, visit the official Dayco website: www.dayco.com

