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### Garage-Pro JCWRK31960001GP

# Garage-Pro Water Outlet for Hyundai Accent 2006-2009 and Kia Rio/Rio5 - Installation and Maintenance Manual

## 1. PRODUCT OVERVIEW

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The Garage-Pro Water Outlet is a direct replacement component designed for the vehicle's cooling system. It facilitates the proper flow of coolant between the engine and the radiator, ensuring optimal engine temperature regulation. This component is manufactured from high-quality materials to meet or exceed original equipment (OE) specifications, providing reliable performance and durability.



Figure 1: Top-down view of the Garage-Pro Water Outlet, showing the main housing and pipe connections.

## 2. KEY FEATURES

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- **Direct OE Replacement:** Engineered to match the fit and function of the original factory part.
- **Durable Construction:** Manufactured from high-quality materials for extended service life.
- **Ensures Proper Coolant Flow:** Critical for maintaining engine operating temperature and preventing

overheating.

- **Easy Installation:** Designed for straightforward replacement, reducing installation time.

### 3. VEHICLE COMPATIBILITY

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This Garage-Pro Water Outlet is compatible with the following vehicle models and years:

- **Hyundai Accent:** 2006, 2007, 2008, 2009 (Fits vehicles up to production date 11/28/2008)
- **Kia Rio:** 2006, 2007, 2008, 2009 (Fits vehicles up to production date 06/02/2009)
- **Kia Rio5:** 2006, 2007, 2008, 2009 (Fits vehicles up to production date 06/02/2009)

**Note:** Always verify compatibility with your vehicle's specific make, model, year, and engine size before installation. Refer to the OEM part number **2562026870** for cross-referencing.

### 4. INSTALLATION INSTRUCTIONS

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#### 4.1. Safety Precautions

- Ensure the engine is completely cool before beginning any work on the cooling system.
- Disconnect the vehicle's battery to prevent electrical hazards.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Dispose of old coolant responsibly according to local regulations.
- Refer to your vehicle's service manual for specific torque specifications and additional safety guidelines.

#### 4.2. Required Tools

- Socket wrench set
- Pliers (for hose clamps)
- Drain pan
- New coolant (compatible with your vehicle)
- Gasket scraper (optional, for cleaning mating surfaces)
- Clean rags

#### 4.3. Installation Steps

1. **Drain Coolant:** Place a drain pan under the radiator and open the drain cock to drain the coolant.
2. **Locate Water Outlet:** Identify the existing water outlet on your engine. It is typically located near the thermostat housing.
3. **Remove Hoses:** Loosen the clamps and carefully remove any hoses connected to the old water outlet. Be prepared for residual coolant.
4. **Remove Old Water Outlet:** Unbolt the old water outlet from the engine block or cylinder head. Keep track of all fasteners.
5. **Clean Mating Surface:** Thoroughly clean the engine's mating surface to ensure a proper seal with the new part. Remove any old gasket material.
6. **Install New Water Outlet:** Position the new Garage-Pro Water Outlet with a new gasket (if applicable) and secure it with the original bolts. Tighten bolts to manufacturer specifications.
7. **Reconnect Hoses:** Reattach all hoses to the new water outlet and secure them with clamps.

8. **Refill Coolant:** Close the radiator drain cock and refill the cooling system with the appropriate coolant.
9. **Bleed Air:** Start the engine and allow it to reach operating temperature with the heater on full. Monitor the coolant level and add more as needed to bleed air from the system.
10. **Inspect for Leaks:** After the engine has cooled, recheck the coolant level and inspect all connections for any leaks.



Figure 2: Angled view of the water outlet, highlighting the mounting points and hose connections for installation.



Figure 3: View into the internal passages of the water outlet, showing the coolant flow path.

## 5. OPERATION

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Once installed, the Garage-Pro Water Outlet functions as an integral part of your vehicle's cooling system. It directs the flow of coolant from the engine to the radiator, where heat is dissipated, and then back to the engine. This continuous circulation is crucial for maintaining the engine within its optimal operating temperature range, preventing both overheating and undercooling, which can lead to engine damage or reduced efficiency.

## 6. MAINTENANCE

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Regular maintenance of your vehicle's cooling system is essential for the longevity and performance of components like the water outlet. While the water outlet itself typically requires no direct maintenance, adhering to the following practices will help ensure its proper function:

- **Coolant Checks:** Regularly check your coolant level and condition. Replace coolant according to your vehicle manufacturer's recommended intervals.
- **Hose Inspection:** Periodically inspect all cooling system hoses connected to the water outlet for cracks, leaks, or signs of deterioration. Replace any damaged hoses promptly.

- **Leak Detection:** Be vigilant for any signs of coolant leaks around the water outlet or other cooling system components. Address leaks immediately to prevent system pressure loss and potential overheating.
- **System Flush:** Consider a cooling system flush at recommended intervals to remove sediment and maintain coolant effectiveness.

## 7. TROUBLESHOOTING

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If you experience issues with your vehicle's cooling system after installing the water outlet, consider the following common troubleshooting steps:

- **Coolant Leaks:**
  - **Symptom:** Visible coolant dripping or puddles under the vehicle.
  - **Solution:** Inspect all hose connections and the mating surface of the water outlet. Ensure clamps are tight and the gasket is properly seated. Retighten bolts if necessary, but do not overtighten.
- **Engine Overheating:**
  - **Symptom:** Temperature gauge reads high, steam from under the hood.
  - **Solution:** Check coolant level. Ensure all air has been bled from the cooling system. Verify the radiator fan is operating correctly. If the issue persists, inspect the thermostat for proper function.
- **Low Coolant Level Warning:**
  - **Symptom:** Dashboard warning light for low coolant.
  - **Solution:** Check for leaks as described above. Top off coolant to the recommended level.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified automotive technician.

## 8. PRODUCT SPECIFICATIONS

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Attribute	Detail
Brand	Garage-Pro
Manufacturer Part Number	JCWRK31960001GP
OEM Part Number	2562026870
Item Weight	1.32 pounds
Product Dimensions	14 x 7 x 4 inches
Vehicle Service Type	Car
UPC	194967622198

## 9. WARRANTY INFORMATION

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The Garage-Pro Water Outlet comes with a **1-year unlimited mileage warranty**. This warranty covers defects in materials and workmanship under normal use and service. For specific terms and conditions, or to initiate a warranty claim, please refer to your purchase documentation or contact Garage-Pro customer support.

## 10. CUSTOMER SUPPORT

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For further assistance, technical support, or inquiries regarding the Garage-Pro Water Outlet, please contact Garage-Pro customer service through their official website or the retailer from whom the product was purchased. When contacting support, please have your product model number (JCWRK31960001GP) and purchase details readily available.