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› EPAuto Spill Proof Radiator Coolant Filling Funnel Kit Instruction Manual

EPAuto AQ-001-1

EPAuto Spill Proof Radiator Coolant Filling Funnel Kit Instruction Manual

Model: AQ-001-1

1. INTRODUCTION AND OVERVIEW

The EPAuto Spill Proof Radiator Coolant Filling Funnel Kit is designed to facilitate the refilling and burping of automotive cooling systems. This kit helps prevent coolant spills and eliminates trapped air pockets, which can cause erratic cooling system and heater performance. Its design ensures a clean and efficient process for coolant maintenance.



Figure 1.1: Overview of the EPAuto Spill Proof Radiator Coolant Filling Funnel Kit, showing the main funnel and various adapters.

2. PRODUCT COMPONENTS

The EPAuto Spill Proof Radiator Coolant Filling Funnel Kit includes a variety of components designed for versatility and ease of use across different vehicle types. Each component plays a crucial role in ensuring a spill-free and air-free coolant filling process.

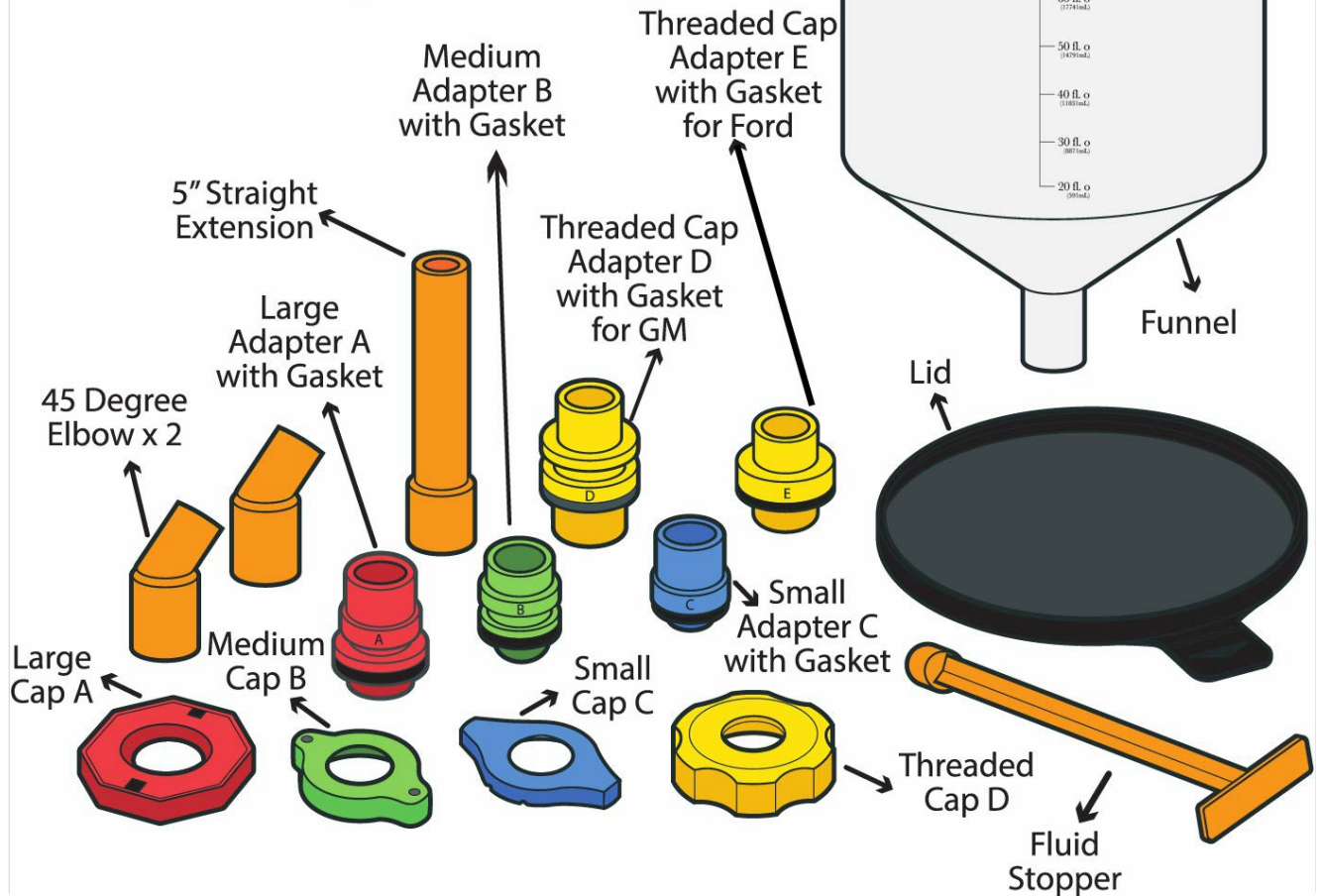


Figure 2.1: Detailed diagram illustrating all components of the funnel kit, including the funnel, lid, fluid stopper, extensions, and various adapters.

Kit Contents:

- **Main Funnel:** Transparent, with volume markings (up to 60 fl. oz / 1774 ml).
- **Lid:** For covering the funnel during storage.
- **Fluid Stopper:** T-shaped plug to control fluid flow from the funnel.
- **5-inch Straight Extension:** For reaching recessed radiator necks.
- **45-Degree Elbow (x2):** For angled access to radiator caps.
- **Adapters:** A selection of color-coded adapters to fit various radiator neck sizes.
 - Large Adapter A (Red) with Gasket
 - Medium Adapter B (Green) with Gasket
 - Small Adapter C (Blue) with Gasket
 - Threaded Cap Adapter D (Yellow) with Gasket for GM vehicles
 - Threaded Cap Adapter E (Yellow) with Gasket for Ford vehicles
- **Caps:** Corresponding color-coded caps for adapters.
 - Large Cap A (Red)
 - Medium Cap B (Green)
 - Small Cap C (Blue)
 - Threaded Cap D (Yellow)

3. SETUP INSTRUCTIONS

Proper setup of the funnel kit is essential for preventing leaks and ensuring effective air purging from the cooling system.

1. **Select Adapter:** Identify the correct sized adapter and matching cap for your vehicle's radiator neck. The kit includes various sizes and threaded options (e.g., for GM, Ford).
2. **Install Gasket:** Place the gasket in a downward position within the selected cap.
3. **Attach Adapter to Cap:** Securely install the adapter into the correct cap.
4. **Mount to Radiator:** Tighten the cap with the adapter onto the radiator neck. Ensure a snug fit to prevent any leakage.
5. **Add Extensions (Optional):** If the radiator neck is difficult to access, attach the 5-inch straight extension or one of the 45-degree elbows to the adapter before placing the funnel. Ensure these are placed well into the adapter opening.
6. **Place Funnel:** Attach the main funnel securely onto the installed adapter or extension.



Figure 3.1: Visual instructions for installing the correct adapter, optional extensions, and the funnel onto a radiator.

4. OPERATING INSTRUCTIONS

Follow these steps for a safe and effective coolant filling and air purging process.

1. **Fill Funnel:** Slowly and carefully pour coolant into the funnel until it is approximately one-third full.
2. **Start Engine:** With the funnel attached, start the vehicle's engine. Keep the engine running at idle speed.
3. **Monitor Coolant Level:** Observe the coolant level in the funnel. It should be at a low position.
4. **Purge Air:** As the engine runs and warms up, air bubbles will rise through the coolant in the funnel. This indicates that trapped air is being purged from the cooling system.
5. **Add Coolant as Needed:** If the coolant level drops significantly, add more coolant to maintain the one-third full level in the funnel.
6. **Shut Down Engine:** Once no more air bubbles are visible and the coolant level stabilizes, shut down the engine. Wait for the fluid level to go lower before proceeding.
7. **Remove Funnel:** Insert the T-shaped Fluid Stopper into the funnel's opening to prevent coolant from draining. Carefully remove the funnel (and any extensions/elbows) from the radiator.
8. **Close Radiator:** Close the radiator with its cap tightly.
9. **Store Excess Coolant:** Use the Fluid Stopper to allow any remaining coolant inside the funnel to flow back into its

original container or a suitable storage bottle.

Video 4.1: Demonstration of the EPAuto Spill Proof Funnel Kit in use, showing the coolant filling process and air purging.

Video 4.2: A detailed review and demonstration of the funnel kit, highlighting its effectiveness in preventing spills and burping the cooling system.

5. MAINTENANCE

To ensure the longevity and proper function of your EPAuto Spill Proof Radiator Coolant Filling Funnel Kit, follow these maintenance guidelines:

- **Cleaning:** After each use, thoroughly rinse all components with water to remove any residual coolant. Coolant can be corrosive and may damage the plastic over time if not cleaned.
- **Drying:** Allow all parts to air dry completely before storing to prevent mold or mildew buildup.
- **Storage:** Store the kit in a cool, dry place, away from direct sunlight and extreme temperatures. The funnel's lid can be used to keep all components neatly organized inside the main funnel.
- **Inspection:** Periodically inspect gaskets and adapters for any signs of wear, cracks, or damage. Replace any compromised parts to maintain a leak-proof seal.

6. TROUBLESHOOTING

If you encounter issues while using the EPAuto Spill Proof Radiator Coolant Filling Funnel Kit, consider the following:

- **Leaks During Filling:**
 - Ensure the correct adapter and cap are selected for your radiator neck.
 - Verify that the gasket is properly seated in a downward position.
 - Tighten the cap and adapter firmly onto the radiator neck.
 - Inspect the adapter and gasket for any damage or wear.
- **Air Pockets Persist:**
 - Ensure the engine is running at idle speed during the burping process.
 - Allow sufficient time for the engine to reach operating temperature and for the thermostat to open.
 - Gently squeeze the radiator hoses to help dislodge trapped air.
 - Elevate the front of the vehicle slightly (if safe to do so) to encourage air to rise to the radiator neck.
- **Funnel Overflow:**
 - Do not overfill the funnel initially; keep it about one-third full.
 - If the engine is shut down while the funnel is full, coolant may overflow as the system cools and contracts.
 - Always insert the Fluid Stopper before removing the funnel to contain remaining coolant.

7. SPECIFICATIONS

Feature	Specification
Brand	EPAuto
Model Number	AQ-001-1
Material	Plastic

Color	Transparent (Funnel)
Capacity	60 Fluid Ounces
Package Dimensions	7.8 x 7.15 x 7.05 inches
Item Weight	14.89 ounces
UPC	690443851873

8. WARRANTY AND SUPPORT

For product support, warranty information, or inquiries, please contact EPAuto directly.

- **Manufacturer:** EPAuto
- **E-mail:** service@epauto.us
- **Tel:** 1-800-349-0716
- **Patent Information:** USPTO Patent No: US10519019B2

Important: If the cooling system has bled coolant, do not open the cap if the radiator is hot. Hot fluid can erupt and cause burns. Air in most other systems can be removed by running the engine at idle and allowing air to purge through the funnel.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

