

POCREATION POCREATIONtdgghy36zsx-01

POCREATION R134A A/C Quick Coupler Set User Manual

Model: POCREATIONtdgghy36zsx-01 | Brand: POCREATION

1. PRODUCT OVERVIEW

This POCREATION R134A A/C Quick Coupler Set is an essential tool for automotive air conditioning system maintenance. It is designed to facilitate the connection of multiple hoses to the vehicle's R134A A/C system for diagnostic, charging, or evacuation procedures. The set includes both high-side (red) and low-side (blue) connectors, ensuring compatibility with standard R134A service ports.

Key features include reliable and safe valve access even at working pressures, versatile side mounting for easy integration with A/C gauge sets, and a quick connect/disconnect mechanism for efficient service. A protective sleeve is incorporated to prevent injury and minimize coolant loss during operation.



Figure 1: Overview of the POCREATION R134A A/C Quick Coupler (High-Side, Red).

2. PACKAGE CONTENTS

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

- 1 x High Side Quick Coupler (Red, with Extractor Valve Core)
- 1 x Low Side Quick Coupler (Blue, with Extractor Valve Core) -*Note: This specific product variant is for the red high voltage coupler, but the set typically includes both.*



Figure 2: The quick coupler with its integrated valve core extractor.

3. SPECIFICATIONS

Feature	Detail
Model Number	POCREATIONtdghy36zsx-01
Compatibility	R134A Automotive A/C Systems
Connector Angle	90°
Material	Metal
Manifold Hose Connection	1/4 inch Flare Male
High Side Coupler Color	Red
Low Side Coupler Color	Blue (typically included in a full set)
Inner Diameter (Red)	Approx. 16mm / 0.63inch

Feature	Detail
Inner Diameter (Blue)	Approx. 14mm / 0.55inch
Dimensions (L*W*H)	Approx. 50 x 30 x 65mm / 1.97 x 1.18 x 2.56inch
Package Weight	Approx. 178g - 187g

4. SETUP AND INSTALLATION

Before connecting the quick couplers, ensure the vehicle's A/C system is in a safe state, ideally depressurized if performing maintenance that requires opening the system. Always identify the high-side (larger diameter, typically red cap) and low-side (smaller diameter, typically blue cap) service ports on your vehicle's A/C system.

Connecting the Couplers:

- Select the Correct Coupler:** Choose the red quick coupler for the high-side service port and the blue quick coupler for the low-side service port.
- Prepare the Service Port:** Ensure the service port is clean and free of debris. Remove the protective cap from the vehicle's A/C service port.
- Attach the Coupler:** Align the quick coupler with the service port. Push down firmly on the coupler until it clicks into place, indicating a secure and sealed connection. The protective sleeve will slide back as you connect.
- Connect Manifold Hose:** Thread your 1/4 inch manifold hose onto the male flare connector on the quick coupler. Hand-tighten first, then use a wrench to ensure a snug, leak-free seal.



Figure 3: The quick coupler ready for connection to a service port and manifold hose.

5. OPERATING INSTRUCTIONS

Once the quick couplers are securely attached to the vehicle's A/C service ports and connected to your manifold gauge set, you can proceed with diagnostic, charging, or evacuation procedures.

Using with an A/C Gauge Set:

1. **Valve Operation:** The quick couplers feature a knob that controls the internal valve. To open the valve and allow refrigerant flow, turn the knob in the direction indicated by "OPEN" (usually counter-clockwise). To close the valve, turn it in the "CLOSED" direction (usually clockwise).
2. **Pressure Readings:** With the valves open, your manifold gauge set will display the system pressures. Always refer to your vehicle's service manual or A/C system specifications for correct pressure ranges.
3. **Charging/Evacuation:** Follow the specific instructions provided with your A/C charging station or vacuum pump for adding or removing refrigerant. The quick couplers provide a secure and efficient connection point for these operations.
4. **Disconnecting:** After completing your A/C service, ensure the coupler's valve is closed. Then, pull back on the protective sleeve of the quick coupler to release it from the service port. Disconnect the manifold hose. Replace the protective caps on the vehicle's service ports.



Figure 4: The valve knob with clear indicators for opening and closing the refrigerant flow.

6. MAINTENANCE

Proper maintenance will extend the lifespan of your POCREATION R134A A/C Quick Coupler Set and ensure reliable performance.

- **Cleaning:** After each use, wipe down the couplers with a clean, dry cloth to remove any refrigerant residue, oil, or dirt. Avoid using harsh chemicals that could damage the seals or metal finish.
- **Inspection:** Periodically inspect the internal O-rings and the brass fittings for signs of wear, cracks, or damage. Ensure the quick-connect mechanism operates smoothly.
- **Lubrication:** If the quick-connect mechanism feels stiff, apply a small amount of refrigerant oil (compatible with R134A) to the internal O-rings.
- **Storage:** Store the couplers in a clean, dry, and cool environment, away from direct sunlight and corrosive substances. Keeping them in their original packaging or a dedicated tool case is recommended.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your quick coupler set.

Issue: Refrigerant Leakage at Connection Point

- **Possible Cause:** Coupler not fully seated.
- **Solution:** Ensure the quick coupler is pushed down firmly onto the service port until it clicks securely into place.
- **Possible Cause:** Damaged or worn O-rings.
- **Solution:** Inspect the internal O-rings for cuts, cracks, or flattening. Replace if necessary.
- **Possible Cause:** Debris on service port or coupler.
- **Solution:** Clean both the vehicle's service port and the coupler's internal mechanism to remove any dirt or foreign particles.
- **Possible Cause:** Manifold hose connection loose.
- **Solution:** Ensure the 1/4 inch flare male connection to your manifold hose is tightened properly.

Issue: Difficulty Connecting or Disconnecting

- **Possible Cause:** Service port or coupler mechanism is dirty or corroded.
- **Solution:** Clean the components. Apply a small amount of R134A compatible refrigerant oil to the O-rings to facilitate smoother operation.
- **Possible Cause:** Excessive pressure in the system.
- **Solution:** While the couplers are designed for working pressure, ensure the system pressure is within expected limits. Do not force connections.

8. SAFETY INFORMATION

Working with automotive A/C systems and refrigerants requires adherence to strict safety precautions. Always prioritize your safety and the safety of others.

- **Personal Protective Equipment (PPE):** Always wear safety glasses or goggles and chemical-resistant gloves when handling refrigerants or working on A/C systems. Refrigerant can cause frostbite upon contact.
- **Ventilation:** Work in a well-ventilated area. Refrigerants are heavier than air and can displace oxygen, leading to asphyxiation in enclosed spaces.
- **Protective Sleeve:** The quick couplers are equipped with a protective sleeve designed to prevent injury and minimize refrigerant loss during connection and disconnection. Do not attempt to remove or bypass this safety feature.
- **System Pressure:** Be aware of system pressures. High-pressure refrigerant can cause severe injury. Never disconnect hoses or fittings under high pressure without proper tools and procedures.
- **Flammability:** While R134A is non-flammable, some alternative refrigerants may be. Always verify the refrigerant type in the system and follow all associated safety guidelines.
- **Professional Guidance:** If you are unsure about any procedure, consult a qualified automotive technician or refer to professional service manuals.

9. WARRANTY AND SUPPORT

POCREATION is committed to providing high-quality products. For any questions regarding the operation, maintenance, or troubleshooting of your R134A A/C Quick Coupler Set, please contact POCREATION customer support. While specific warranty details may vary by region and retailer, please retain your proof of purchase for any warranty claims. For the most up-to-date support information, visit the official POCREATION website or contact the retailer from whom you purchased the product.

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