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Robinair 18470

Robinair 18470 Syringe-Type POE Oil Injector for HV R-1234YF Systems

Model: 18470

INTRODUCTION

The Robinair 18470 is a manual oil injector designed for precise injection of POE type A/C system lubricant into R-1234yf automotive air conditioning systems. This manual provides essential information for the safe and effective use of your injector.

SAFETY INFORMATION

Please read and understand all safety warnings and instructions before operating this product. Failure to do so may result in injury or damage to the equipment.

- Always wear appropriate personal protective equipment, including eye protection and gloves, when handling refrigerants and A/C system components.
- Refer to your vehicle's service manual for specific A/C system procedures and refrigerant handling guidelines.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 Warning).
- Ensure the A/C system is depressurized or properly evacuated before connecting or disconnecting the injector.

PRODUCT OVERVIEW

The Robinair 18470 injector features a 1/2 ounce oil capacity and a smooth-acting plunger for controlled delivery. It is equipped with a low-side R-1234yf service coupler for direct connection to compatible A/C systems.



Figure 1: Robinair 18470 Syringe-Type POE Oil Injector with R-1234yf coupler.



Figure 2: Genuine Robinair Parts & Accessories logo, indicating product authenticity.

SETUP

Follow these steps to prepare the oil injector for use:

1. Ensure the A/C system is depressurized or properly evacuated before connecting the injector.
2. Unscrew the top cap of the injector barrel.
3. Fill the injector barrel with the required amount of POE oil (up to 1/2 ounce).
4. Re-attach the top cap securely, ensuring a tight seal.
5. Connect the low-side R-1234yf service coupler to the vehicle's low-side A/C service port. Ensure a secure connection.

OPERATING INSTRUCTIONS

To inject POE oil into the A/C system:

1. With the injector connected to the low-side service port, ensure the vehicle's A/C system is running and the compressor is engaged.
2. Slowly depress the plunger to inject the POE oil into the A/C system. Inject gradually to allow the oil to be drawn into the system.

3. Once the desired amount of oil has been injected, fully retract the plunger.
4. Close the valve on the service coupler (if applicable) and disconnect the injector from the vehicle's A/C system.
5. Replace the service port cap on the vehicle.

Maintenance

Proper maintenance ensures the longevity and performance of your injector:

- After each use, clean the injector thoroughly to prevent contamination.
- Disassemble the injector and clean all components with an appropriate A/C system cleaner.
- Inspect O-rings and seals for wear or damage. Replace if necessary to ensure a leak-free operation.
- Store the injector in a clean, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

Refer to the following for common issues:

- **Issue:** Oil not injecting smoothly.
Solution: Check for blockages in the injector or hose. Ensure the A/C system is operating and creating sufficient vacuum/pressure differential to draw in the oil.
- **Issue:** Leaks at connections.
Solution: Verify all connections are tight. Inspect O-rings and seals for damage and replace if needed.

Specifications

Attribute	Detail
Manufacturer	Robinair
Model	18470
Item Weight	3.84 ounces
Product Dimensions	10 x 2 x 1 inches
Oil Capacity	1/2 ounce
Refrigerant Compatibility	R-1234yf
Coupler Type	Low-side R-1234yf service coupler
Exterior Material	Plastic

What's in the Box

- Robinair 18470 Syringe-Type POE Oil Injector

Warranty and Support

Warranty information for the Robinair 18470 Syringe-Type POE Oil Injector is not provided in this manual.

For warranty details or technical support, please contact Robinair customer service directly or visit their official website.