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Spectronics TP9882

Spectronics TP9882 Dye and Oil Injector User Manual

Model: TP9882

INTRODUCTION

The Spectronics TP9882 Dye and Oil Injector is designed for efficient and precise injection of bulk dye and oil into automotive air conditioning and refrigeration systems. This robust tool features a large 2-ounce capacity, allowing it to remain in-line during operation. It is compatible with both R-134a and R-12 systems, making it a versatile addition to any technician's toolkit.



An image showing the Spectronics TP9882 Dye and Oil Injector. It features a silver cylindrical body, a yellow flexible hose, and brass quick-connect fittings. The model number 'TP-9882' is visible on the side of the injector body.

SETUP

- Preparation:** Ensure the system you are working on is depressurized or properly isolated before connecting the injector.
- Filling the Injector:** Unscrew the top cap of the injector body. Carefully pour the desired amount of dye or oil into the 2-ounce capacity chamber. Do not overfill. Securely re-attach the top cap.
- Connecting Hoses:**
 - For R-134a systems, connect the included R-134a hose/coupler to the injector's outlet.
 - For R-12 systems, attach the R-12 adapter/purge fitting to the injector's outlet, then connect your R-12 hose.
- System Connection:** Connect the appropriate hose/coupler assembly to the low-side service port of the vehicle's A/C system.

OPERATING INSTRUCTIONS

- Purging Air:** Before injecting, slightly open the purge fitting (if applicable) or briefly depress the Schrader valve on the coupler to purge any air from the injector and hose. Close the purge fitting.
- Injection Process:** With the injector connected to the system's low-side service port, slowly open the valve on the injector. The system's vacuum or pressure will draw the dye or oil into the system.
- Monitoring:** Observe the flow of dye/oil. Once the chamber is empty or the desired amount has been injected, close the injector valve.
- Disconnection:** Disconnect the injector from the service port. Ensure all valves are closed before storing.

Note: For optimal results, follow the specific dye or oil manufacturer's instructions regarding quantity and application methods.

MAINTENANCE

- Cleaning:** After each use, especially when switching between different types of dyes or oils, clean the injector thoroughly. Flush with an appropriate cleaning agent or fresh refrigerant oil to prevent contamination.
- Storage:** Store the injector in a clean, dry place away from direct sunlight and extreme temperatures. Keep caps and fittings covered to prevent dust and debris from entering.
- Inspection:** Periodically inspect hoses and fittings for signs of wear, cracks, or leaks. Replace any damaged components immediately to ensure safe and effective operation.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Dye/Oil not injecting	System pressure too low; Injector valve closed; Clogged hose/fitting.	Ensure adequate system pressure (if applicable); Open injector valve fully; Check for obstructions and clear.
Leaks at connections	Loose connections; Worn O-rings/seals.	Tighten all connections; Inspect and replace O-rings/seals as needed.
Difficulty connecting/disconnecting	Dirty or damaged fittings; Incorrect coupler.	Clean fittings; Ensure correct coupler for R-134a or R-12 system.

SPECIFICATIONS

Manufacturer: Spectronics

Brand: Spectronics

Model Number: TP9882

Product Dimensions: 15.24 x 12.7 x 5.08 cm

Item Weight: 204.12 g

Capacity: 2 oz (approx. 59 ml)

Compatibility: R-134a, R-12 systems

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact Spectronics customer service directly. Refer to the product packaging or the official Spectronics website for the most current contact information.

This manual provides general guidelines for the use and maintenance of the Spectronics TP9882 Dye and Oil Injector. Always adhere to local regulations and safety procedures when working with automotive systems.