

Please read and save these instructions. Read through this owner's manual carefully before using product. Protect yourself and others by observing all safety information, warnings, and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instructions for future reference.



DYE INJECTOR- R12 & R134A HAND TURN

UNPACKING

After unpacking unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing, or damaged parts. If any damage is observed, a shipping damage claim must be filed with carrier. Do not use the Dye Injector if broken, bent, cracked or damaged parts (including labels) are noted. Any Dye Injector that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Dye Injector was subjected to a shock load (a load that was dropped suddenly, unexpectedly, etc.) immediately discontinue use until it has been checked by a factory authorized service center.



WARNING

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The following safety information is provided as guidelines to help you operate your Dye Injector under the safest possible conditions. Any tool or piece of equipment can be potentially dangerous to use when safety or safe handling instructions are not known or not followed. The following safety instructions are to provide the user with the information necessary for safe use and operation. Please read and retain these instructions for the continued safe use of your service system. Failure to follow instructions listed below may result in serious injury. In addition, make certain that anyone that uses the equipment understands and follows these safety instructions as well.



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Thank you very much for choosing an OEMTOOLS Product!

For future reference, please complete the owner's record below:

Model: _____ **Purchase Date:** _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it. This machine is designed for certain applications only. OEMTOOLS cannot be responsible for issues arising from modification. We strongly recommend this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted OEMTOOLS to determine if it can or should be performed on the product.

IMPORTANT INSTRUCTIONS AND SAFETY RULES

- Keep bystanders, children, and visitors away while operating the Dye Injector. Distractions can cause you to lose control. Protect others in the work area from injury.
- Stay alert. Watch what you are doing, and use common sense when operating the Dye Injector. Do not use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the power tool in unexpected situations.
- Use safety equipment.
- Wear ANSI-approved safety glasses underneath a full face safety shield. Nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Maintain tools with care.
- Keep tools dry and clean.
- Properly maintained tools are less likely to bind and are easier to control. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.
- If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.
- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.
- Maintain a safe working environment. Keep the work area well lit. Make sure there is adequate surrounding workspace. Keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use this product in a damp or wet location.
- Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact OEM for a replacement.
- Keep the handle dry, clean, and free from brake fluid, oil, and grease.
- Before use, read and understand all warnings, safety precautions, and instructions as outlined in the vehicle manufacturer's service manual. It is beyond the scope of this manual to properly describe the correct procedure and test data for each vehicle.
- To reduce the risk of discomfort, illness, or death, read, understand, and follow the following safety instructions. Avoid breathing A/C refrigerant and lubricant vapor mist. Exposure may irritate eyes, nose, and throat. To remove R134a from the A/C system, use service equipment certified to meet the requirements of SAE J2788--R134a recycling equipment. Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.



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- Always perform vehicle service in a properly ventilated area. Never run an engine without proper ventilation for its exhaust. Stop work and take necessary steps to improve ventilation in the work area if you develop momentary eye, nose, or throat irritation as this indicates inadequate ventilation.
- Engine parts that are in motion and unexpected movement of a vehicle can injure or kill. When working near moving engine parts, wear snug fit clothing and keep hands and fingers away from moving parts. Keep hoses and tools clear of moving parts. Always stay clear of moving engine parts. Hoses and tools can be thrown through the air if not kept clear of moving engine parts. The unexpected movement of a vehicle can injure or kill. When working on vehicles always set the parking brake or block the wheels.
- Be alert for hot engine parts to avoid accidental burns.
- When under pressure, refrigerants become liquid. When accidentally released from the liquid state they evaporate and become gaseous. As they evaporate, they can freeze tissue very rapidly. When these gases are breathed in, the lungs can be seriously damaged. If sufficient quantities are taken into the lungs, death can result. If you believe you have exposed your lungs to released refrigerant, seek immediate medical assistance. Refrigerants can cause frostbite and severe burns to exposed skin. Refrigerants are under pressure and can be forcibly sprayed in all directions if carelessly handled. Avoid contact with refrigerants and always wear protective gloves and make certain other exposed skin is properly covered. Refrigerants can also severely injure or cause permanent blindness to unprotected eyes. Avoid contact with refrigerants and always wear safety goggles.
- Avoid accidental fire and/or explosion. Do not smoke near engine fuel and battery components.
- The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
- The manufacturer declines any and all responsibility for damage to vehicles or components if said damage is the result of unskillful handling by the operator or of failure to observe the basic safety rules set forth in the instruction manual.

DISPOSAL

- At the end of the useful life of the Dye Injector, dispose of the components according to all state, federal, and local regulations
- All technicians opening the refrigeration circuit in automotive air conditioning systems must now be certified in refrigerant recovery and recycling procedures to be in compliance with Section 609 of the Clean Air Act Amendments of 1990. The 1990 amendments to the United States Clean Air Act mandate that all personnel who service refrigerant systems must be trained and certified. Fines are in place for violations and compliance is now being monitored by the U.S. EPA.
- Do Not Vent Refrigerant to the Atmosphere. Use Appropriate Recovery Equipment.

PRODUCT SPECIFICATIONS

Aluminum Housing	Refillable (Capacity: 2 oz - 60 ml)
Connection Hose	1/4" FL SAE
Adapter	1/4" FLM SAE - 13mm Quick Coupler

PURPOSE

The purpose of this tool is to allow the injection of oil or dye, simply by connecting the injector to the low side of the A/C system and twist the handle until you reach the desired amount.



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WARNING

Always wear safety glasses and gloves!

OPERATING INSTRUCTIONS

A. Purging Air from the Hose Assembly

It is important to eliminate any air in the hose before injecting dye into the A/C system. (This process is necessary only once for the setup).

1. Hold the dye injector (A) upward while unscrewing the Cap/Hose assembly (B). Turn the handle of the Dye Injector (A) counter clockwise all the way before filling. Fill the injector with oil or dye. Replace Cap/Hose assembly, tightening securely.
2. While holding the assembly hose end up, turn the Handle (A) clockwise. Continue turning as dye/oil enters the Hose and pushes the air up. Use a pen to press the depressor of the Coupler (C) to release the air. Repeat this process as needed until oil/dye appears at the Coupler's end.

B. Injection

1. Turn the A/C system and engine off.
2. Connect Injector to the low side service port of A/C system. Hold body of Injector. Use the (I) Starting Line on handle end as a guide. Turn Handle clockwise to inject dye/oil. (Approximately 1 to 1 1/4 turn(s) for Concentrated Dye). (Approximately 3 1/2 turns for Standard Dye). (Approximately 3 1/4 turns for 1.4 oz. oil)
3. Disconnect Injector (A) from the system and clean any excess dye left around the service port around the service port.

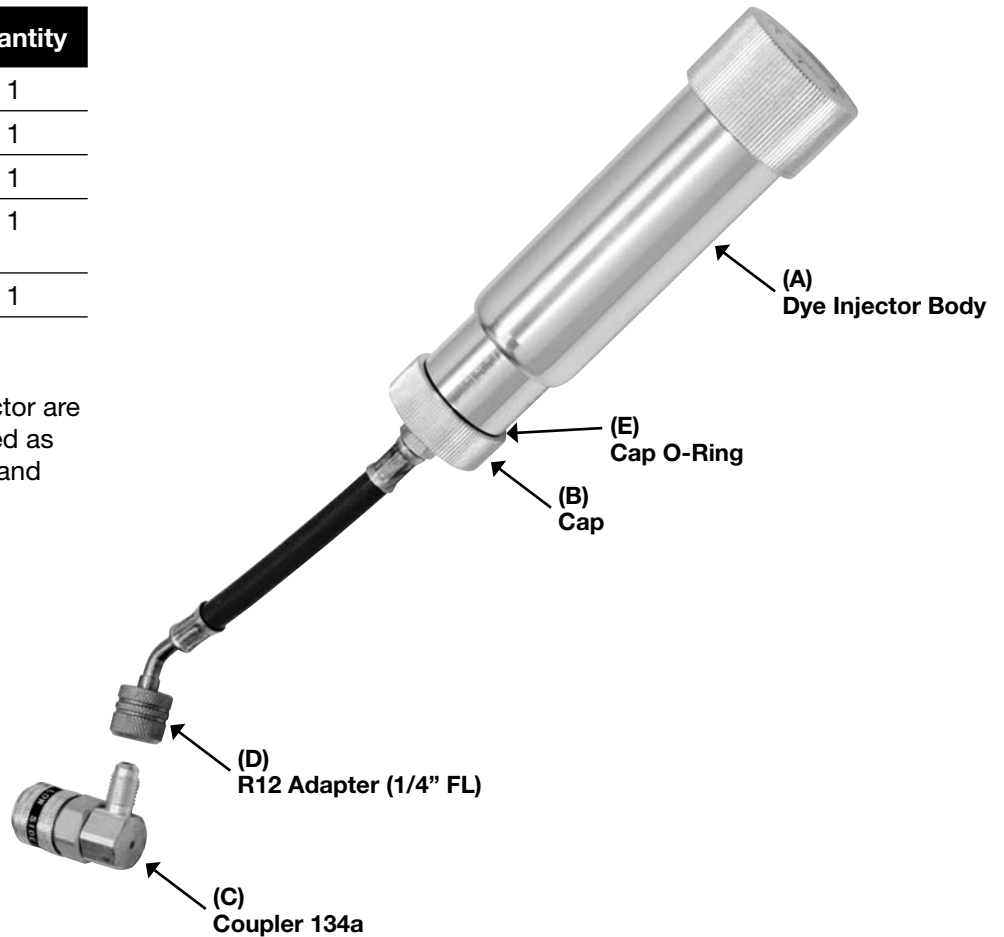


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Figure	Description	Quantity
A	Dye Injector Body	1
B	Cap	1
C	Coupler 134a	1
D	R12 Adapter (1/4" FL)	1
E	Cap O-Ring	1

NOTE

Not all components of the Dye Injector are replacement items, but are illustrated as a convenient reference for location and position in the assembly sequence.



MAINTENANCE

1. Always store the Dye Injector in a well-protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements.
2. Keep the Dye Injector clean for better and safer performance.
3. Inspect Hose, Couplers, and Adapters periodically, and if damaged, replace them.