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.

PNEUMATIC/MANUAL FLUID EVACUATOR - 1.5 GALLON (6 L)

FOR CUSTOMER SERVICE
Technical Question?
CALL 1-866-458-2472
customerservice@oem-tools.com

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 the carrier. DO NOT use OEMTOOLS™ Pneumatic/Manual Fluid Evacuator - 1.5 Gallon (6 L) if broken, bent, cracked or damaged parts (including labels) are noted. Any Pneumatic/Manual Fluid Evacuator that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Pneumatic/Manual Fluid Evacuator 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

The following safety information is provided as a guideline to help you operate your Manual Fluid Evacuator 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 Manual Fluid Evacuator. Failure to follow instructions listed below may result in serious injury. In addition, make sure that anyone who uses the equipment understands and follows these safety instructions as well.

Explanation of Safety Signal Words

⚠**WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTES: Provide clarity and helpful information.

Thank you very much for choosing an OEMTOOLS™ Product!

For future reference, please register your new tool at www.oem-tools.com and 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 product is designed for certain applications only. OEMTOOLS™ cannot be responsible for issues arising from modification. We strongly recommend that this product 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 product until you have first contacted customer service to determine if it can or should be performed on the product.

⚠**WARNING:** This product can expose you to chemicals, including DEHP and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

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IMPORTANT INSTRUCTIONS AND SAFETY RULES

1. Know your tool. Read this manual carefully. Learn the tool's applications and limitations, as well as potential hazards specific to it.
2. Keep work area clean and well lit. Cluttered or dark work areas invite accidents.
3. Keep children away. All children should be kept away from the work area. Never let a child handle a tool without strict adult supervision.
4. DO NOT operate this tool if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, DO NOT attempt to operate.
5. Use safety equipment. Eye protection should be worn at all times when operating this tool. Use ANSI approved safety glasses. Everyday eyeglasses are NOT safety glasses. Dust mask, non-skid safety shoes, hard hat or hearing protection should be used in appropriate conditions.
6. Wear proper apparel. Loose clothing, gloves, neck-ties, rings, bracelets or other jewelry may present a potential hazard when operating this tool. Keep all apparel clear of the tool.
7. DO NOT overreach. Keep proper footing and balance at all times when operating this tool.
8. Check for damage. Check your tool regularly. If part of the tool is damaged, it should be carefully inspected to make sure that it can perform its intended function correctly. If in doubt, the part should be repaired. Refer all servicing to a qualified technician. Consult your dealer for advice.
9. Keep away from flammables. DO NOT attempt to operate this tool near flammable materials or combustibles. Failure to comply may cause serious injury or death.
10. Store idle tools out of the reach of children and untrained persons. Tools may be dangerous in the hands of untrained users.
11. Maintain tools with care.
12. Keep tools dry and clean.
13. 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.
14. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.
15. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
16. 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.
17. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
18. 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.
19. 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.

SAFETY RULES & INSTRUCTIONS FOR THIS PRODUCT

1. Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact OEMTOOLS™ for a replacement.
2. Keep the handle dry, clean, and free from brake fluid, oil, and grease.
3. 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.
4. 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.
5. 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.
6. Be alert for hot engine parts to avoid accidental burns.
7. If you drove your car recently, fluids could be very hot. Allow at least 2 hours before you handle any fluids. Oil and coolant burns are very dangerous.
8. Avoid accidental fire and/or explosion. DO NOT smoke near engine fuel and battery components.
9. Never remove the cap from the radiator or expansion tank while the engine is at operating temperature.
10. Always allow the engine to cool before removing the radiator cap or expansion tank cap. The cooling system is under pressure. Failure to allow the engine to cool before attempting to remove the cap could result in serious injuries.

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11. 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.
12. For safety purposes and the prevention of damage to expensive components, it is advised that the user understand basic automotive repair and have a working knowledge of automotive systems.
13. We believe the information contained herein to be reliable. However, general technical information is given by us without charge and the user shall employ such information at his or her own discretion and risk. We assume no responsibility for results or damages incurred from the use of such information in whole or in part. Always refer to specific instructions and technical information supplied by vehicle manufacturer.
14. 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.
15. Used oil, antifreeze, brake fluid and transmission fluid contain chemical compounds that can be harmful to humans and other animals. When managed properly, used oil may again be of beneficial use. Used oil may be blended and recycled as a heating or industrial fuel and also may be re-refined and made into new lubricants. Persons who perform maintenance on their own vehicles are responsible for managing the used fluids in a manner that is protective of human health and the environment and to follow all local laws and regulations concerning their disposal.

DISPOSAL

At the end of the useful life of the Pneumatic/Manual Fluid Evacuator, dispose of the components according to all local, state, and federal regulations.

PURPOSE

The OEMTOOLS™ 24937 Pneumatic/Manual Fluid Evacuator is designed for the extraction of all types of engine, transmission and lubricating oils from cars, motorcycles, marine engines and industrial machinery. Also suitable for low viscosity fluid such as water or coolant. This fluid evacuator is equipped with a Venturi for use with shop air.

PRODUCT SPECIFICATIONS

Reservoir Capacity	1.5 Gallon (6 L)
Operation	Manual/Pneumatic
Working Pressure	85 - 110 PSI
Application	Lubricating Oils, ATF, Coolant, Brake Fluid, Water, Other Low Viscosity Fluids

SPECIFIC SAFETY INSTRUCTIONS AND WARNINGS

⚠**CAUTION**: This equipment is intended for professional use only and only for the applications specified in in this manual.

⚠**CAUTION**: DO NOT attempt to extract fluids at temperatures greater than 175°F (80°C).

⚠**CAUTION**: This equipment is designed for servicing a variety of vehicles; however, differences in makes and models may not allow this equipment to be used as intended by the manufacturer. DO NOT attempt to force this equipment to fit an application for which it was not designed.

⚠**CAUTION**: In addition to the guidelines set by this manual, always follow the manufacturer provided vehicle maintenance manual prior to attempting service of any kind.

⚠**WARNING:** DO NOT use this equipment with gasoline or other flammable liquids or with fluids at temperatures above 175°F (80°C).

⚠**WARNING:** Keep away from open flames or excessive heat.

⚠**WARNING:** To extract certain fluids, the vehicle may need to be lifted. Practice extreme caution when using lifting equipment, and ensure that the proper lifting equipment is utilized.

⚠**WARNING:** Prior to inserting the extraction hoses into any dipstick tube/fluid reservoir, ensure that the extraction hoses are clean of any residual fluids. This could cause contamination, potentially leading to system failure.

⚠**WARNING:** This system creates a vacuum, thus creating pressurized fluid. While operating, ensure secure fittings and always check the system pressure prior to disconnecting any hose.

ASSEMBLY

The Main Extraction Reservoir is fully assembled.

1. Remove the unit and all pieces from the packaging.
2. Refer to the parts list to ensure all pieces are present.
3. Press the Main Suction Hose into the receiving hole on the Reservoir Cap. Press in until snug against the cap. The O-Ring will hold the Main Suction Hose in place during operation.
4. Remove the protective cover from the Venturi and install the Air Fitting.
5. Ensure that the Reservoir Lid is properly secured to the Reservoir.
6. If using shop air, connect the compressed air source to the Air Fitting installed on the Venturi.

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PREPARING FOR OPERATION

1. Park the vehicle on a level surface, free from obstruction. Put the vehicle in park or neutral; apply the parking brake.
2. If extracting oil, start the engine and allow the engine to idle until it has reached normal operating temperature. Turn the engine off.

NOTE: If extracting coolant, DO NOT follow Step 2. Allow the engine to cool completely before proceeding.

EXTRACTING OIL THROUGH THE DIPSTICK TUBE

1. Insert the Dipstick Tube Adapter into the vehicle's dipstick tube until it reaches the bottom of the oil pan.

NOTE: DO NOT bend the Dipstick Tube Adapter while inserting the adapter into the dipstick tube.

2. Connect the Main Suction Hose to the inserted Dipstick Tube Adapter.

NOTE: Ensure that the hose connections are tight to prevent leakage during the extraction process.

3. Press the Main Suction Hose into the Reservoir Cap as described in the assembly instructions.

NOTE: Ensure that the Vacuum Release Plug is fully inserted in the lower receiving hole prior to operation. If the Vacuum Release Plug is not inserted, a vacuum will not be created.

4. **USING THE PNEUMATIC FUNCTION**
   a) Open the Air Valve on the Venturi to create a vacuum. The oil will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
   b) Close the Air Valve on the Venturi and disconnect from the air source.
5. **USING THE MANUAL FUNCTION**
   a) Pump the Evacuator Handle several times to create a vacuum. The oil will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
6. Disconnect the Main Suction Hose from Dipstick Tube Adapter.
7. Disconnect the Main Suction Hose from the Reservoir Cap. Pour the used oil from the Reservoir into a suitable container. Dispose of used oil in accordance with federal, state and local regulations.

EXTRACTING COOLANT FROM A RADIATOR OR EXPANSION TANK

⚠**WARNING:** DO NOT remove the cap from the radiator or expansion tank while the engine is at operating temperature. This system is under pressure and could cause serious injury. ALWAYS allow the engine to cool completely prior to removing the radiator cap or expansion tank cap.

1. See "Preparing for Operation" instructions above. Allow the engine to cool completely.
2. Remove the radiator or expansion tank cap.
3. Insert the appropriate diameter Suction Hose Adapter into the radiator or expansion tank until it reaches the bottom.

NOTE: DO NOT bend the Suction Hose Adapter while inserting the Hose Adapter into the radiator.

4. Connect the Main Suction Hose to the inserted Suction Hose Adapter.

NOTE: Ensure that the hose connections are tight to prevent leakage during the extraction process.

5. Press the Main Suction Hose into the Reservoir Cap as described in the assembly instructions.

NOTE: Ensure that the Vacuum Release Plug is fully inserted in the lower receiving hole prior to operation. If the Vacuum Release Plug is not inserted, a vacuum will not be created.

6. **USING THE PNEUMATIC FUNCTION**
   a) Open the Air Valve on the Venturi to create a vacuum. The coolant will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
   b) Close the Air Valve on the Venturi and disconnect from the air source.
7. **USING THE MANUAL FUNCTION**
   a) Pump the Evacuator Handle several times to create a vacuum. The coolant will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
8. Disconnect the Main Suction Hose from the Suction Hose Adapter.
9. Disconnect the Main Suction Hose from the Reservoir Cap. Pour the used coolant from the Reservoir into a suitable container. Dispose of used coolant in accordance with federal, state and local regulations.

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EXTRACTING BRAKE FLUID FROM THE MASTER CYLINDER

1. See “Preparing for Operation” instructions above.
2. Clean the exterior of the master cylinder and master cylinder cap to prevent dirt and debris from entering the master cylinder when the cap is removed.
3. Insert the appropriate diameter Suction Hose Adapter into the master cylinder reservoir.

NOTE: DO NOT bend the Suction Hose Adapter while inserting the hose adapter into the reservoir.

4. Connect the Main Suction Hose to the inserted Suction Hose Adapter.

NOTE: Ensure that the hose connections are tight to prevent leakage during the extraction process.

5. Press the Main Suction Hose into the Reservoir Cap as described in the assembly instructions.

NOTE: Ensure that the Vacuum Release Plug is fully inserted in the lower receiving hole prior to operation. If the Vacuum Release Plug is not inserted, a vacuum will not be created.

6. **USING THE PNEUMATIC FUNCTION**
   a) Open the Air Valve on the Venturi to create a vacuum. The brake fluid will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
   b) Close the Air Valve on the Venturi and disconnect from the air source.
7. **USING THE MANUAL FUNCTION**
   a) Pump the Evacuator Handle several times to create a vacuum. The brake fluid will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
8. Disconnect the Main Suction Hose from the Suction Hose Adapter.
9. Disconnect the Main Suction Hose from the Reservoir Cap. Pour the used brake fluid from the Reservoir into a suitable container. Dispose of used coolant in accordance with federal, state and local regulations.

EXTRACTING POWER STEERING FLUID FROM THE POWER STEERING FLUID RESERVOIR

1. See “Preparing for Operation” instructions above.
2. Clean the exterior of the power steering fluid reservoir and reservoir cap to prevent dirt and debris from entering the master cylinder when the cap is removed.
3. Insert the appropriate diameter Suction Hose Adapter into the master cylinder reservoir.

NOTE: DO NOT bend the Suction Hose Adapter while inserting the Hose Adapter into the reservoir.

4. Connect the Main Suction Hose to the inserted Suction Hose Adapter.

NOTE: Ensure that the hose connections are tight to prevent leakage during the extraction process.

5. Press the Main Suction Hose into the Reservoir Cap as described in the assembly instructions.

NOTE: Ensure that the Vacuum Release Plug is fully inserted in the lower receiving hole prior to operation. If the Vacuum Release Plug is not inserted, a vacuum will not be created.

6. **USING THE PNEUMATIC FUNCTION**
   a) Open the Air Valve on the Venturi to create a vacuum. The power steering fluid will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
   b) Close the Air Valve on the Venturi and disconnect from the air source.
7. **USING THE MANUAL FUNCTION**
   a) Pump the Evacuator Handle several times to create a vacuum. The power steering fluid will flow through the Suction Hose Assembly into the Reservoir until it has all been extracted OR until maximum reservoir capacity has been reached.
8. Disconnect the Main Suction Hose from the Suction Hose Adapter.
9. Disconnect the Main Suction Hose from the Reservoir Cap. Pour the used power steering fluid from the Reservoir into a suitable container. Dispose of used coolant in accordance with federal, state and local regulations.

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PARTS LIST

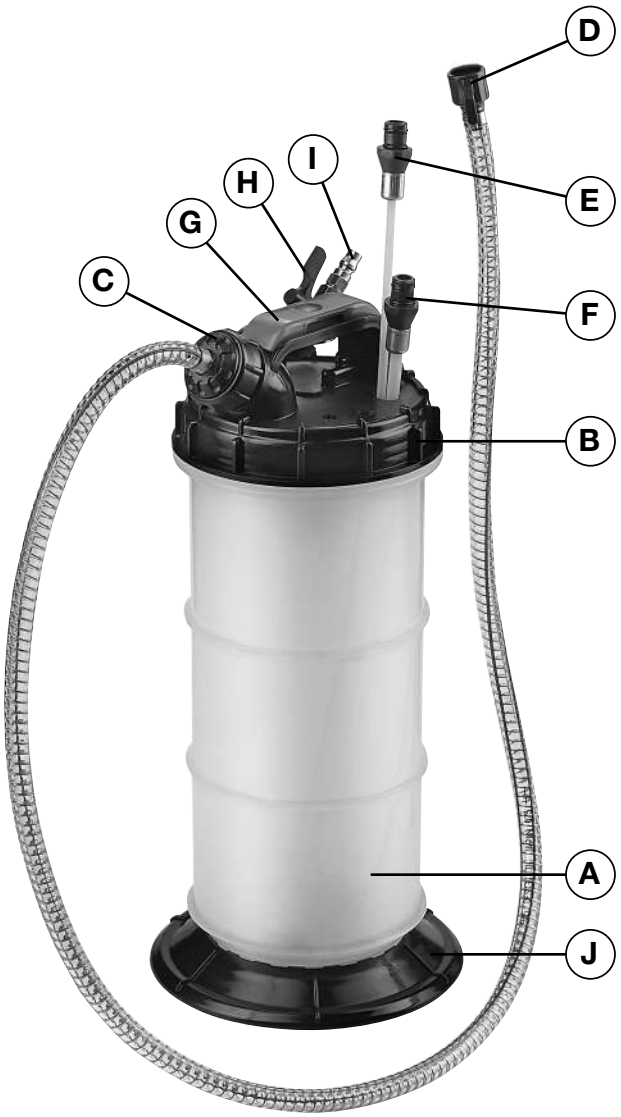


Figure	Description
A	Extraction Reservoir
B	Extraction Reservoir Cap
C	Main Suction Hose Receiving Hole
D	Main Suction Hose
E	Dipstick Tube Adapter
F	Suction Hose Adapter
G	Manual Pump Handle
H	Venturi
I	Air Fitting
J	Base
K	Vacuum Release Plug (not shown)

MAINTENANCE

1. Always store the Pneumatic/Manual Fluid Evacuator 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 Pneumatic/Manual Fluid Evacuator clean for better and safer performance.
3. Inspect Reservoir, Hoses, Caps, Gaskets, Seals, Gauge and Adapters periodically and, if damaged, replace them.
4. Rinse the evacuator reservoir, pump, adapter, and tubes with clean solvent or engine degreaser, and allow them to dry thoroughly.

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OEMTOOLS™ ONE YEAR WARRANTY

For up to one year from the date of purchase of this OEMTOOLS™ product, if you find any defect in material or workmanship (through normal usage), return it to the place of purchase or to OEMTOOLS™ for repair or replacement at our discretion. In order to obtain this service, send the product and proof of purchase (transportation pre-paid) to:

OEMTOOLS™ Q.A. Dept, 3580 E. Raines Road #3, Memphis, TN 38118.

We will not be responsible for lost or damaged goods during transportation; please insure your package. If our inspection verifies the defect, we will either repair or replace the product, or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

OEMTOOLS™ does not provide warranty for products labeled other than OEM® or OEMTOOLS™. OEMTOOLS™ will not provide any warranty for products subjected to abnormal use. Abnormal use includes (but is not limited to) abuse, accident, alteration, neglect, and unauthorized or unreasonable use or repairs. This warranty does not cover bits, blades, files, batteries, or calibration. We recommend that you maintain your tools and sharpen or replace blades, bits, files, and batteries as necessary. OEMTOOLS™ reserves the right to make any changes in construction or design at any time without any obligation in incorporating such changes to tools or equipment previously sold. OEMTOOLS™ makes every effort to ensure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase. This warranty does not apply to damage due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance.

We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Don’t forget to register your new OEMTOOLS™ product at www.oem-tools.com.

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NOTES:

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