

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.



## MANUAL FLUID EXTRACTOR

### FOR CUSTOMER SERVICE

Technical Question?

**CALL 1-866-458-2472**  
customerservice@oem-tools.com

### UNPACKING

After unpacking the 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 the OEMTOOLS® 24397 Manual Fluid Extractor if broken, bent, cracked or damaged parts (including labels) are noted. Any Extractor that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Extractor was subjected to 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 Extractor 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 Extractor. 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](http://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 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](http://www.P65Warnings.ca.gov).



## MANUAL FLUID EXTRACTOR

### **! IMPORTANT INSTRUCTIONS AND SAFETY RULES**

1. Know your product. Read this manual carefully. Learn the product's applications and limitations, as well as potential hazards specific to it. The use of this product is simple and straightforward if you follow the instructions. When operating this product, use common sense and only use this product for its intended purpose.
2. Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact OEMTOOLS® for a replacement.
3. Maintain this product with care. Keep it dry and clean – and free from brake fluid, oil, and grease (if applicable).
4. Check for damage. Check your product regularly. If part of the product 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.
5. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the product's operation.
6. DO NOT use a damaged product. Tag damaged products "DO NOT USE" until repaired. If damaged, have the product serviced before using. Many accidents are caused by poorly maintained products.
7. Service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could create a risk of injury.
8. When servicing a product, use only identical replacement parts. Use of unauthorized parts or failure to follow maintenance instructions could create a risk of injury.
9. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one product may become hazardous when used on another product.
10. Keep work area clean and well lit. Cluttered or dark work areas invite accidents.
11. 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.
12. Keep children away from the work area. Never let a child handle this product without strict adult supervision.
13. Store this product out of the reach of children and untrained persons. This product may be dangerous in the hands of untrained users.
14. DO NOT operate this product 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.
15. Use safety equipment. Eye protection should be worn at all times when operating this product. 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.
16. Wear proper apparel. Loose clothing, gloves, neck-ties, rings, bracelets or other jewelry may present a potential hazard when operating this product. Keep all apparel clear of the product.
17. DO NOT overreach. Keep proper footing and balance at all times when operating this product.
18. Keep away from flammables. DO NOT attempt to operate this product near flammable materials or combustibles. Failure to comply may cause serious injury or death.
19. Avoid accidental fire and/or explosion. DO NOT smoke near engine fuel and battery components.
20. 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 their 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.
21. The manufacturer declines any and all responsibility for property damage or injury 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.
22. 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.

### **PRODUCT DESCRIPTION**

The OEMTOOLS® 24397 Manual Fluid Extractor 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

### **PRODUCT SPECIFICATIONS**

<b>Reservoir Capacity</b>	5.5L (1.45 Gallons)
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## MANUAL FLUID EXTRACTOR

### SPECIFIC SAFETY INSTRUCTIONS AND WARNINGS

Study, understand, and follow all instructions before operating this device.

**▲WARNING:** DO NOT use this equipment with gasoline or other flammable liquids or with fluids at temperatures above 175°F (80°C). Keep away from open flames or excessive heat

### OPERATION INSTRUCTIONS

1. This equipment is intended only for professional use by personnel trained in performing the service functions for which it is has been designed
2. This equipment is designed for servicing a variety of vehicles in a safe, convenient manner. However, differences in vehicle makes and models may make it impossible to use this equipment as it is intended. Do not attempt to force the use of this equipment on an application for which it is not designed to perform.
3. The procedures documented in this manual are to serve as guidelines for the use of this equipment.
4. In addition to these guidelines, always follow the manufacturer's recommended procedures when servicing each unique vehicle.
5. The use of this equipment is simple and straightforward if you follow the instructions. However, always keep in mind that you are working with a system that may be under pressure, with fluid that is just waiting to be expelled. When operating this equipment, use common sense, and always stop to think before disconnecting a hose or other component.

#### A. EXTRACTING MOTOR OIL THROUGH THE DIPSTICK TUBE

1. Park vehicle on level ground. Ensure the transmission of the vehicle is in "neutral" or "park" position and apply the parking brake.
2. Start the engine. Allow the engine to idle until it has reached normal operating temperature. Turn the engine off.
3. Insert the appropriate diameter dipstick tube into the dipstick fill hole until it reaches the bottom of oil pan.

**NOTE:** Do not bend the suction tube during the inserting procedure.

4. Connect the main suction tube to the dipstick tube.
5. Insert the O-Ringed plug of the main suction tube into the reservoir adapter and then insert the adapter into the top of the reservoir. Ensure the tube connections are tight to prevent leakage.
6. Extract the used motor oil by pumping the evacuator handle several times to create a vacuum. Once the fluid begins to flow into the reservoir, continue to operate the pump until all the fluid has been drained from the engine crankcase.

**NOTE:** When oil in the tank reaches the maximum level, the vacuum will release to prevent overflowing.

7. Remove the main suction hose from the reservoir adapter; pour the used oil from the reservoir into a suitable container, then dispose of the fluid in an appropriate manner

**NOTE:** If no vacuum can be created after emptying the Reservoir, the user may need to remove the Red Vacuum Release Plug below the Pump Handle and reinstall it. This will release vacuum inside the Pump and restore operation.

#### B. EXTRACTING TRANSMISSION FLUID THROUGH THE DIPSTICK TUBE

**▲WARNING:** In some applications, this may require jacking or lifting the vehicle. Use appropriate safety stands to avoid serious or fatal injury.

1. Operate the vehicle to warm the transmission fluid to a normal operating temperature.
- ▲CAUTION:** Do not attempt to extract fluids at temperatures greater than 175°F (80°C).
2. Properly park the vehicle on level ground and turn the engine off.
3. Remove the transmission fluid dipstick.
4. Insert the dipstick tube into the dipstick fill hole until it reaches the bottom of the transmission pan.
5. Connect the main suction tube to the dipstick tube.
6. Insert the O-Ringed plug of the main suction tube into the reservoir adapter and then insert the adapter into the top of the reservoir. Ensure the tube connections are tight to prevent leakage.
7. Extract the used transmission fluid by pumping the evacuator handle several times to create a vacuum. Once the fluid begins to flow into the reservoir, continue to operate the pump until all the fluid has been drained from the transmission pan.
8. Remove the main suction hose from the reservoir adapter; pour the used transmission fluid from the reservoir into a suitable container, then dispose of the fluid in an appropriate manner.

**NOTE:** If no vacuum can be created after emptying the Reservoir, the user may need to remove the Red Vacuum Release Plug below the Pump Handle and reinstall it. This will release vacuum inside the Pump and restore operation.

#### C. EXTRACTING COOLANT FROM A RADIATOR OR EXPANSION TANK

**▲WARNING:** Never remove the cap from the radiator or expansion tank while the engine is at operating temperature. 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.

1. Properly park the vehicle on level ground and turn the engine off.
2. Allow engine to cool completely. Caution: Do not attempt to extract fluids at temperatures greater than 175°F (80°C).
3. Remove the radiator or expansion tank cap.
4. Insert the suction tube into the radiator or expansion tank until it reaches the bottom.
5. Connect the main suction tube to the suction tube.



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6. Insert the O-Ringed adapter into the pour spout on the top of the reservoir. Ensure the tube connections are tight to prevent leak.
7. Extract the used coolant by pumping the evacuator handle several times to create a vacuum. Once the coolant begins to flow into the reservoir, continue to operate the pump until all the coolant has been drained from the radiator or expansion tank.
8. Remove the reservoir adapter from the reservoir; pour the used coolant from the reservoir into a suitable container, then dispose of the coolant in an appropriate manner.
7. Extract the used power steering fluid by pumping the evacuator handle several times to create a vacuum. Once the fluid begins to flow into the reservoir, continue to operate the pump until all the fluid has been drained from the power steering fluid reservoir.
8. Remove the reservoir adapter from the evacuator reservoir; pour the used power steering fluid from the reservoir into a suitable container, then dispose of the fluid in an appropriate manner.

**NOTE:** If no vacuum can be created after emptying the Reservoir, the user may need to remove the Red Vacuum Release Plug below the Pump Handle and reinstall it. This will release vacuum inside the Pump and restore operation.

### D. EXTRACTING BRAKE FLUID FROM THE MASTER CYLINDER

1. Properly park the vehicle on level ground and turn the engine off.
2. Clean the exterior of the master cylinder and master cylinder cap to prevent dirt from entering the master cylinder when the cap is removed.
3. Remove the cap from the master cylinder reservoir.
4. Insert the suction tube into the master cylinder reservoir.
5. Connect the main suction tube to the suction tube.
6. Insert the O-Ringed adapter into the pour spout on the top of the reservoir. Ensure the tube connections are tight to prevent leak.
7. Extract the used brake fluid by pumping the evacuator handle several times to create a vacuum. Once the fluid begins to flow into the reservoir, continue to operate the pump until all the fluid has been drained from the master cylinder.
8. Remove the reservoir adapter from the reservoir; pour the used brake fluid from the reservoir into a suitable container, then dispose of the fluid in an appropriate manner.

**NOTE:** If no vacuum can be created after emptying the Reservoir, the user may need to remove the Red Vacuum Release Plug below the Pump Handle and reinstall it. This will release vacuum inside the Pump and restore operation.

### E. EXTRACTING POWER STEERING FLUID FROM THE POWER STEERING FLUID RESERVOIR

1. Properly park the vehicle on level ground and turn the engine off.
2. Clean the exterior of the power steering fluid reservoir to prevent dirt from entering the reservoir when the cap is removed.
3. Remove the cap from the power steering fluid reservoir.
4. Insert the suction tube into the master cylinder reservoir.
5. Connect the main suction tube to the suction tube.
6. Insert the O-Ringed adapter into the pour spout on the top of the reservoir. Ensure the tube connections are tight to prevent leak.

**NOTE:** If no vacuum can be created after emptying the Reservoir, the user may need to remove the Red Vacuum Release Plug below the Pump Handle and reinstall it. This will release vacuum inside the Pump and restore operation.

### PRODUCT MAINTENANCE

1. Always store the Manual Fluid Extractor 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 Manual Fluid Extractor 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.
5. Do not attempt to remove the black lid from the reservoir.

### DISPOSAL

At the end of the useful life of the Manual Fluid Extractor, dispose of the components according to all state, federal, and local regulations



# MANUAL FLUID EXTRACTOR

## PRODUCT LAYOUT



## PARTS LIST

Figure	Description	Qty.
A	Main Suction Tube	1
B	Suction Tube	1
C	Dipstick Tube	1
D	Pump Handle	1
E	Reservoir	1
F	Float Assembly (Not Shown)	1
G	Base	1







## MANUAL FLUID EXTRACTOR

### **WE STAND BEHIND OUR TOOLS. OEMTOOLS® 1 YEAR WARRANTY**

If within 1 year from the date of purchase of this OEMTOOLS product, 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 your tool 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 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. 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.

Please contact us at [customerservice@oem-tools.com](mailto:customerservice@oem-tools.com) or call us at 901-370-1101 for additional information or questions.

Thank you for your purchase.

## CONTACT US

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