

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.



## POWER STEERING AND BRAKE AIR BLEED ADAPTER KIT

### 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 carrier. DO NOT use the OEMTOOLS® Power Steering and Brake Air Bleed Adapter Kit if broken, bent, cracked or damaged parts (including labels) are noted. Any Power Steering and Brake Air Bleed Adapter Kit that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Power Steering and Brake Air Bleed Adapter Kit 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 Power Steering and Brake Air Bleed Adapter Kit 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 tool. Failure to follow instructions listed below may result in serious injury. In addition, make certain 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 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:** Pursuant to California Proposition 65, this product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



## POWER STEERING AND BRAKE AIR BLEED ADAPTER KIT



### 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. Don't 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.
20. Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact OEMTOOLS® for a replacement.
21. Keep the handle dry, clean, and free from brake fluid, oil and grease.
22. 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.
23. 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.
24. 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 chock the wheels.
25. Be alert for hot engine parts to avoid accidental burns.
26. 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.
27. Avoid accidental fire and/or explosion. Do not smoke near engine fuel and battery components.
28. 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.
29. For safety purposes and the prevention of damage to expensive components it is advised that the user have an understanding of basic automotive repair and a working knowledge of automotive systems.
30. 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 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.



## POWER STEERING AND BRAKE AIR BLEED ADAPTER KIT

31. 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.
32. Used oil, antifreeze, brake fluid and transmission fluid contains 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 OEMTOOLS® Power Steering and Brake Air Bleed Adapter Kit, dispose of the components according to all state, federal and local regulations.

### PURPOSE

When coupled with a hand vacuum pump, these adapters allow user to help remove trapped air in Power Steering and Brake System components and lines.

### PRODUCT SPECIFICATIONS

Reservoir Capacity: 4 oz.

### POWER STEERING VACUUM BLEED PROCEDURE

1. Check and fill the pump reservoir.
2. Attach the 3-1/2" Clear Hose to the bottom of the Fluid Reservoir Cap.
3. Attach the Fluid Reservoir Cap to the Fluid Reservoir.
4. Using the 1-1/2" Clear Hose, connect Fluid Reservoir Cap to user supplied Hand Vacuum Pump.

**NOTE:** It is important to connect the Vacuum Pump to the Fluid Reservoir Cap port that is NOT connected to the dip tube port on the bottom the Fluid Reservoir Cap.

5. Determine which Rubber Stopper best fits your Power Steering Pump Reservoir. Insert the Rubber Stopper tightly into the Pump Reservoir fill neck.
6. Using the 24" Clear Hose, connect Fluid Reservoir assembly to the Rubber Stopper.

### WARNING

Make sure hose and pump are clear of all belts and other moving engine parts before starting engine.

**NOTE:** When applying vacuum a small amount of fluid may collect in the Fluid Reservoir. Be sure to monitor Fluid Reservoir and do not allow fluid to completely fill the Reservoir.

**NOTE:** DO NOT allow fluid to be drawn into the Hand Vacuum Pump. Damage to the Hand Vacuum Pump will occur.

**NOTE:** Be sure to hold the Vacuum Pump and Fluid Reservoir in a vertical position. Otherwise fluid may bypass the Reservoir and damage the Hand Vacuum Pump.

7. Apply 15" Hg. vacuum to the Power Steering Pump Reservoir with the engine idling. Cycle the steering wheel from lock-to-lock every 30 seconds for approximately five minutes. Do not hold the steering wheel on stops while cycling. Be sure to monitor the Vacuum Pump Gauge and maintain adequate vacuum as the air purges.
8. Release the vacuum and remove the Rubber Stopper from the Power Steering Pump Reservoir. Add additional fluid if necessary and reinstall the Power Steering Pump Reservoir Cap.
9. Restart the engine, cycle steering wheel and check for fluid leaks.

**NOTE:** In severe cases of aeration, it may be necessary to repeat this procedure several times.

### BRAKE BLEEDING PROCEDURE

1. Assemble the components as above, attaching the Brake Bleeder Adapter that best fits your bleeder screw.
2. Ensure the Master Cylinder is full of clean brake fluid.
3. Connect the Brake Bleeder Adapter to the bleeder screw farthest from the master cylinder. On most vehicles this will be the right rear.
4. Open bleeder screw and pump the Hand Vacuum Pump 10 to 15 times.

**NOTE:** DO NOT allow fluid to be drawn into the Hand Vacuum Pump. Damage to the Hand Vacuum Pump will occur.

**NOTE:** Be sure to hold the Vacuum Pump and Fluid Reservoir in a vertical position. Otherwise fluid may bypass the Reservoir and damage the Hand Vacuum Pump.

5. After filling the Reservoir with about 2" of fluid, close the bleeder screw and refill the master cylinder.
6. Drain the old fluid from the Reservoir.
7. Repeat the process until you see clean fluid with no bubbles passing through the hose.
8. Repeat the entire process on each bleeder screw working your way closer to the master cylinder each time.

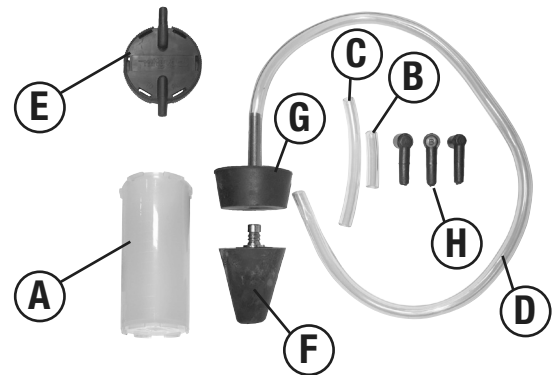


# POWER STEERING AND BRAKE AIR BLEED ADAPTER KIT

## Parts List

## Parts Diagram

Figure	Description	Quantity
A	4 Oz. Fluid Reservoir	1
B	1-1/2" Clear Hose	1
C	3-1/2" Clear Hose	1
D	24" Clear Hose	1
E	Fluid Reservoir Cap	1
F	Small Rubber Stopper	1
G	Large Rubber Stopper	1
H	Brake Fluid Adapters	3



**Note:** Not all components of the Power Steering and Brake Air Bleed Adapter Kit are replacement items, but are illustrated as a convenient reference for location and position in the assembly sequence.

The manufacturer and/or its distributor have provided the parts list and assembly diagram in this manual as a reference tool only. Neither the manufacturer nor its distributor makes any representation or warranty of any kind to the buyer that he or she is qualified to make

any repairs to the product, or that he or she is qualified to replace any parts of the product. In fact, the manufacturer and/or its distributor expressly states that all repairs and parts replacements should be undertaken by certified and licensed technicians, and not by the buyer. The buyer assumes all risk and liability arising out of his or her repairs to the original product or replacement parts thereto, or arising out of his or her installation of replacement parts thereto.

## OEMTOOLS® ONE YEAR WARRANTY

If for up to one 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 either repair or replace the product at our election, 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](http://www.oem-tools.com).

## CONTACT US

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