

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.



## MASTER FREEZE PLUG KIT

### UNPACKING

After unpacking the OEMTOOLS™ Master Freeze Plug Kit, 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 Master Freeze Plug Kit if broken, bent, cracked or damaged parts (including labels) are noted. Any Master Freeze Plug Kit that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Master Freeze Plug 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 product 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 product. 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.



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### **! 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.
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 this product without strict adult supervision.
4. 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.
5. 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.
6. 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.
7. DO NOT overreach. Keep proper footing and balance at all times when operating this product.
8. 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.
9. 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.
10. Store idle product out of the reach of children and untrained persons. This product may be dangerous in the hands of untrained users.
11. Maintain product with care.
12. Keep product dry and clean.
13. DO NOT use a damaged product. Tag damaged products "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 product's operation.
15. 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.
16. If damaged, have the product serviced before using. Many accidents are caused by poorly maintained products.
17. Product 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 product, 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. Avoid accidental fire and/or explosion. DO NOT smoke near engine fuel and battery components.
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.
25. The unexpected movement of a vehicle can injure or kill. When working on vehicles, always set the parking brake and chock the wheels.
26. 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.
27. This equipment is intended only for professional use by personnel trained in performing the service functions for which it was designed.
28. 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 was not designed to perform.
29. The procedures documented in this manual are to serve as guidelines for the use of this equipment.
30. In addition to these guidelines, always follow the manufacturer's recommended procedures when servicing each unique vehicle.
31. The use of this equipment is simple and straightforward if you follow the instructions. When operating this equipment, use common sense, and always stop to think before using this tool.



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32. 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.

**NOTE:** 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.

**⚠WARNING:** Read Rules for Safe Operation and Instructions carefully.

### IMPORTANT SAFETY INSTRUCTIONS

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.

### DISPOSAL

At the end of the useful life of the product, dispose of the components according to all state, federal and local regulations.

### PRODUCT DESCRIPTION

The OEMTOOLS™ 27208 Master Freeze Plug Kit is designed to install freeze plugs on liquid-cooled gas and diesel engines.

### PRODUCT SPECIFICATIONS

<b>Product Dimensions:</b>	28" x 4" x 2.2"
<b>Driver Shafts Included:</b>	8" Straight, 18" Angled
<b>Head Adapters:</b>	3/4", 1", 1-1/4", 1-1/2", 1-3/4"
<b>Adapter Angle:</b>	Adjustable
<b>Item Weight:</b>	5.3 Lbs.

### CONTENTS

8 In. Shaft (1), 18 In. Angled Shaft (1), Head Adapters (5), Knurled Ring Nut End (1), Blow-Mold Case (1) and Instruction Manual (1)

### OPERATION

**⚠WARNING:** ALLOW THE ENGINE TO COOL PRIOR TO PERFORMING ENGINE SERVICE.

1. Select the appropriate adapter for the freeze plug.

**NOTE:** Pressure should be applied to the outer edges of the freeze plug during installation.

2. Slide the retaining ring over the back end of the chosen driver and hold the adapter onto the ball end. Tighten the adapter into place at the desired angle.

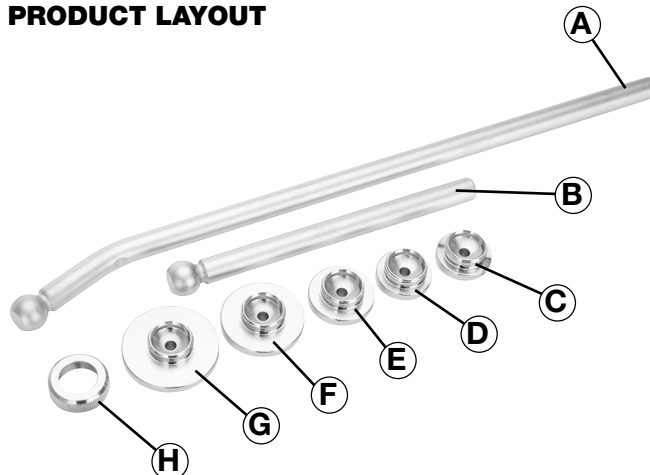
3. Apply a sealant to the edges of the freeze plug.

**NOTE:** Refer to the manufacturer's maintenance manual for vehicle specific information.

4. With the freeze plug in place on the engine block, place the adapter over the plug. Lightly hammer the back end of the driver until the freeze plug is fully inserted.

**NOTE:** The top of the freeze plug should be situated just below the surface of the engine block. The freeze plug should be level across.

### PRODUCT LAYOUT



### PARTS LIST

Figure	Description	Qty.
A	18" Angled Shaft	1
B	8" Shaft	1
C	3/4" Head Adapter	1
D	1" Head Adapter	1
E	1-1/4" Head Adapter	1
F	1-1/2" Head Adapter	1
G	1-3/4" Head Adapter	1
H	Knurled Ring Nut	1

**NOTE:** Not all components of the product are replacement items but are illustrated as a convenient reference for location and position in the assembly sequence.

OEMTOOLS™ and/or its distributors have provided the parts list and assembly diagram as a reference only. Neither OEMTOOLS™ nor its distributors make any representation or warranty of any kind to the buyer and/or user of this tool that he or she is qualified to do any repairs or replace any parts of this product. OEMTOOLS™ and its distributors expressly state that all repairs or parts replacement should be done by certified or licensed technicians. The buyer assumes all risk and liability arising out of his or her repairs or parts replacement to the original production.