

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.



HARMONIC BALANCER PULLER KIT

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® Harmonic Balancer Puller Kit if broken, bent, cracked or damaged parts (including labels) are noted. Any Harmonic Balancer Puller Kit that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Harmonic Balancer Puller 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 Harmonic Balancer Puller 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 that 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 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 tool is designed for certain applications only. OEMTOOLS cannot be responsible for issues arising from modification. We strongly recommend this tool 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 tool until you have first contacted customer service to determine if it can or should be performed on the product.



HARMONIC BALANCER PULLER 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. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
14. 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.
15. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
16. 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.
17. 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.
18. Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact customer service.
19. 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.

20. 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.

WARNING

- Engine parts that are in motion or 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.
- Do not smoke near engine fuel and battery components.

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.

WARNING

1. For safety purposes and to prevent damage to expensive components, it is advised that the user have an understanding of basic automotive repair and working knowledge of automotive systems.
2. 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.
3. This equipment is intended only for professional use by personnel trained in performing the service functions for which it is has been designed.
4. 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.
5. The procedures documented in this manual are to serve as guidelines for the use of this equipment.
6. In addition to these guidelines, always follow the manufacturer's recommended procedures when servicing each unique vehicle.

DISPOSAL

At the end of the useful life of the OEMTOOLS Harmonic Balancer Puller Kit, dispose of the components according to all state, federal, and local regulations.



HARMONIC BALANCER PULLER KIT

PURPOSE

The Harmonic Balancer Puller Kit is designed to remove the harmonic balancer on many popular GM, Mitsubishi and Chrysler engines with spoked pulleys, often without the need for removal of the radiator.

OPERATING INSTRUCTIONS

⚠ WARNING

Ensure you read, understand and apply safety instructions before use.

1. Determine which Insert Rod will work best to remove crankshaft pulley. Install the appropriate Insert Rod into the crankshaft.

2. Attach the 3-jaw puller to the damper and line up the forcing screw with the insert.
3. Tighten the forcing screw onto the puller to push against the insert.
4. Remove the crankshaft damper.

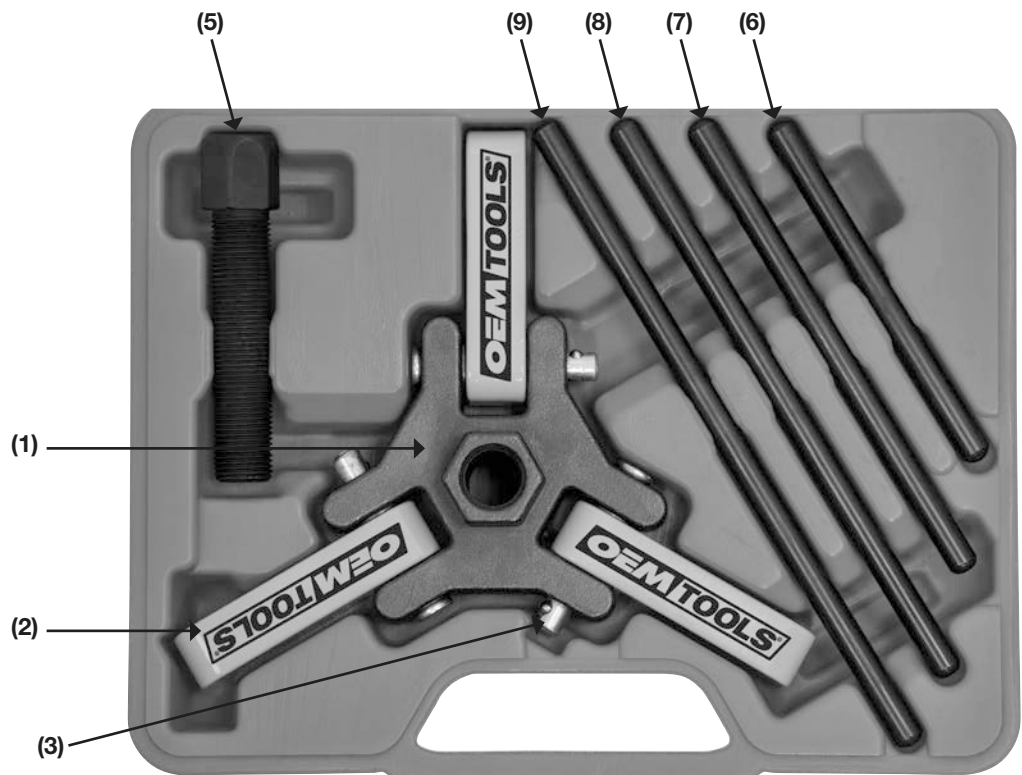
MAINTENANCE

⚠ WARNING

Before each use, inspect the Harmonic Balancer Puller for damage. Do not use if bent, broken, cracked, leaking or otherwise damaged components are noted. Periodically, lightly oil all moving parts, including the pump piston and ram.

Parts List

Item #	Part Name	Qty.
1	Puller Body	1
2	Puller Jaw	3
3	Jaw Retaining Pin	3
4	Wave Washer	(Not Shown) 3
5	Pressure Screw	1
6	Insert Rod 4"	1
7	Insert Rod 5-13/32"	1
8	Insert Rod 6-1/2"	1
9	Insert Rod 7-13/32"	1



NOTE:

Not all components of the Harmonic Balancer Puller Kit are replacement items, but are illustrated as a convenient reference for location and position in the assembly sequence. OEM and/or its distributors have provided the parts list and assembly diagram as a reference only. Neither OEM and/or 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. OEM 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