

46 PCS Flywheel Puller Tool Set A/C Vacuum Pump & Gauge Set

User Manual



Read Carefully Before Use
Keep for Future Reference



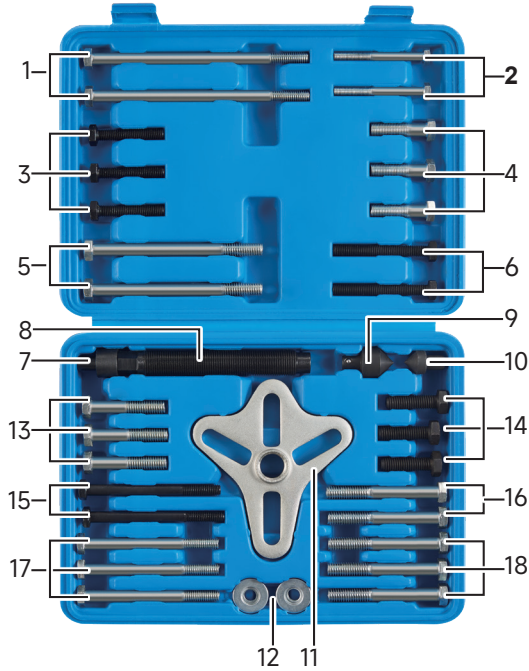
OMT
Orion Motor Tech

UM-PUL-0042-V2

Safety Information

	<ul style="list-style-type: none">• The instructions provided herein are only for general information. ALWAYS perform all repairs in full compliance with your machinery's service manual. After any repair, test your engine and machinery in your workshop and at low speed before returning to regular use. Failure to do so may result in serious property damage and severe personal injury.• DO NOT allow use by children, persons whose mental or physical condition precludes safe use, or persons unfamiliar with this product and its compatible vehicle systems.• DO NOT use while under the influence of alcohol, drugs, or any medication that negatively affects your judgment or reflexes. Keep children and bystanders away during use.• Keep your work site clean and well-lit. Cluttered and dark work areas invite accidents.• ALWAYS use personal protective equipment (PPE) suitable to your task. ALWAYS wear ANSI and OSHA-approved eye, breathing, and hand protection while using this product. Regular use of this product typically produces microscopic particles known to the state of California to cause cancer, congenital disabilities, or other reproductive harm. Nonslip footwear is also highly recommended. Other equipment such as ear, head, and body protection may also be necessary depending on your work, work environment, and other equipment.• ALWAYS read and understand your machinery's specific safety warnings and instructions before using this kit. Use the correct fluids, pressures, adapters, etc., for your machinery. Make sure the machinery is fully supported and parked before beginning any work. Take care to NEVER touch any heated surface with exposed skin.• Before servicing your machinery, turn off its engine and refer to its manufacturer's service and repair manual for instructions on safely securing the machinery with chocks, jacks, stands, etc.• In case of an accident or injury, have a first aid kit and a communication device (e.g., a phone) readily available. Know the location of emergency medical facilities.• Machinery repair is an inherently dangerous activity. This manual and the separate machinery service manual cannot cover all possible situations that may arise. ALWAYS exercise discretion and good judgment. Seek training if needed.
	<ul style="list-style-type: none">• For best results, keep the kit clean and dry. Remove any fluid, oil, or grease before and after work.• Dress appropriately for automotive servicing. DO NOT wear loose clothing or jewelry, and keep hair, clothing, gloves, hoses, and tools away from any moving parts during use.• If a component is particularly stubborn, avoid applying excessive force that could damage the puller or the workpiece. Instead, apply penetrating oil, allow it time to work, and proceed with gradual force application.• Maintain this product. Check for misalignment, binding, wear, or other damage before use. If any damage is detected, repair or replace the problematic components before further use. In a large shop, mark such tools "DO NOT USE" until they have been repaired. ONLY replace components with identical parts.

Parts List



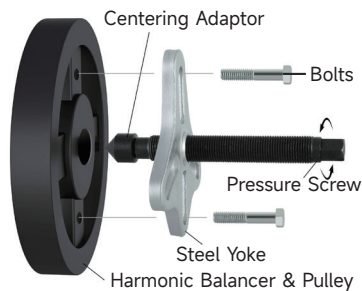
No.	Description	Qty.	No.	Description	Qty.
1	5/16 in.-18 Bolt 6.18" Length	2	2	1/4 in.-28 Bolt 2-1/2 in. Length	2
3	M8x1.25 Bolt 45 mm Length	3	4	3/8 in.-24 Bolt 1-1/2 in. Length	3
5	3/8 in.-16 Bolt 4-1/2 in. Length	2	6	M8 x 1.25 Bolt 65 mm Length	2
7	Flat Shaft Adaptor	1	8	3/4 in.-16 Pressure Screw 5" Length	1
9	Large Centering Adaptor	1	10	Small Centering Adaptor	1
11	Steel Yoke	1	12	Washers	11
13	3/8 in.-16 Bolt 2 in. Length	3	14	M10 x 1.5 Bolt 35 mm Length	3
15	M8 x 1.25 Bolt 90 mm Length	2	16	5/16 in.-24 Bolt 3 in. Length	2
17	5/16 in.-18 Bolt 3-1/2 in. Length	3	18	3/8 in.-16 Bolt 3 in. Length	3

Operation

Warning

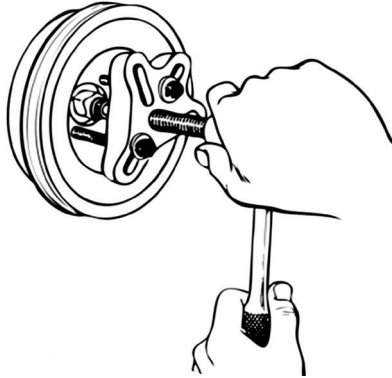
- Shut the engine before servicing, make sure the vehicle is in a stationary state for easy maintenance, and that the engine has cooled to room temperature before performing maintenance or adjustments.
- Use correct tools and personal protective equipment (PPE) before performing any operation. Be extremely careful with possible pinching points, moving parts, or parts that may suddenly spring out.
- Make sure your surroundings are safe for using the tool. Avoid operating in crowded or unstable areas.
- Make sure the work area is clean and clear of any clutter or dirt that may affect operations.
- **ALWAYS** ensure that your vehicle has been jacked up and is adequately supported with axle stands.
- Do not force the tool. Excessive force may cause serious personal injuries and severe property damage.
- For an abundance of safety, we recommend you take training before using these tools. Serious injury could happen due to a lack of training.

1. Match the slots on the yoke (Part 11) to the holes in the harmonic balancer to determine the number of bolts needed.
2. Find the set of bolts that fit the threaded holes in the harmonic balancer.
3. Thread the bolts with washers through the slots in the yoke and into the holes in the harmonic balancer.
4. Grease the black pressure screw (Part 8). Thread this through the hole in the center of the yoke.
5. Place the centering adaptor (Parts 9 or 10) or tip the assembly onto the end of pressure screw and thread the screw against the crankshaft surface.



Operation

6. Using a wrench or ratchet, tighten the pressure screw until harmonic balancer is pulled off of the crank shaft.



7. Follow similar steps to remove crankshaft pulleys and steering wheels.

Maintenance

- Clean the tools with a soft, damp cloth using a mild detergent or solution after use. Do not rinse them or use abrasive cleaners or caustic chemicals.
- For best results, lubricate the tool with high-quality anticorrosive oil between uses.
- Check the parts of the tool periodically for any wear or damage. Repair or replace any problematic parts before further use.
- If the tools are not used for an extended period, clean and lubricate them and store them in a cool, dry place inaccessible to children.

Disclaimer

Read this disclaimer completely and carefully before proceeding with the rest of the manual content.

1. Product Modifications

Any modifications or alterations to OMT products void any warranties and may result in damage or injury. OMT shall not be liable for any damages resulting from such modifications or alterations.

2. Compliance with Laws

Customers shall be liable for ensuring that the use of OMT products complies with all applicable laws and regulations in their respective jurisdictions. OMT assumes no responsibility for any violations of laws or regulations resulting from the use of OMT products.

3. Correct Use

Always use OMT products only as directed in the accompanying manuals. Failure to follow instructions may result in injury or damage.

Always ensure the assembly, installation, operation, maintenance, or repair of OMT products is carried out by a competent person.

Always make maintenance regularly throughout OMT products' lifecycles; you have the liability to keep the products operating as intended.

Always wear appropriate protective gear.

4. Third-Party Products

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