

Orion Motor Tech V20231219 CV Axle Puller Tool Set



Orion Motor Tech V20231219 CV Axle Puller Tool Set User Manual

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Orion Motor Tech V20231219 CV Axle Puller Tool Set



Product Information

Specifications

- **Model:** V20231219
- **Product Name:** CV Joint Removal Kit
- **Package Contents:**
 - A – Slide Hammer with 16mm Nuts x 1
 - B – Steel Cable Adapter x 1
 - C – 63 mm CV Joint Fork x 1
 - D – 48 mm CV Joint Fork x 1
 - E – Outer CV Joint Adapter with 24.5mm Opening x 1

Product Usage Instructions

Assembly

1. Refer to your vehicle's servicing manual to select the appropriate adapter (B, C, D, or E) for your axle size.
2. Loosen and remove the outermost nut on the slide hammer.
3. Adjust the second nut closer to the slide hammer to accommodate the selected adapter.
4. Attach the selected adapter to the slide hammer and secure it with the two nuts.

Removing from the Inner CV Axle

1. Park the vehicle, engage the parking brake, and jack up the side needing the CV joint removal.
2. Remove lug nuts, nut lock, cotter pin, spring washer, hub nut, any washers, and the wheel hub.
3. Hang the wheel hub aside using a hook.
4. Apply penetrating oil to the connection point between the inner CV axle and the transmission.
5. Hook adapter (B, C, or D) around the inner CV joint housing.

6. Ensure the adapter grips the joint housing securely and slide the hammer back and forth until the joint comes off.

Removing from the Outer CV Axle

1. Follow steps 1-4 to remove the inner CV axle.
2. Attach the outer CV joint adapter (E) to the slide hammer if not already attached.
3. Apply penetrating oil to the connection point between the outer CV axle and the transmission.
4. Secure the adapter to the outer CV joint using the removed nut lock or hub nut.
5. Slide the hammer back and forth until the outer CV axle comes off.
6. Detach the adapter from the outer CV axle.

Maintenance

After use, clean any corrosive oil from the tools and store them in their original box in a safe place away from children and direct sunlight.

FAQ

- **Q: How do I know which adapter to use for my specific vehicle?**

A: Refer to your vehicle's servicing manual or consult with a professional mechanic to determine the correct adapter size (B, C, D, or E) for your axle.

- **Q: Can I use this kit for both front and rear CV joint removal?**

A: Yes, this kit is designed for both front and rear CV joint removal on various vehicles. Ensure you select the appropriate adapter based on your specific axle size.

Safety Information

Danger

- Instructions provided herein are only for general information. ALWAYS perform all repairs in full compliance with your vehicle's service manual. Particularly, ALWAYS use the transmission fluid type and amount listed in the service manual. After any repair, test your engine and vehicle in your workshop and at low speed before returning to normal use. Failure to do so may result in brake failure, serious property damage, and severe personal injury.
- Use this tool exclusively for removing the inner constant velocity (CV) joint. Using it for purposes other than stated herein could result in serious property damage or personal injuries.
- ALWAYS tighten fasteners down to their stated torques in your vehicle's manual. Failure to do so may result in serious property damage and severe injuries.
- ALWAYS follow the original equipment manufacturer (OEM) procedures of your vehicle.
- DO NOT allow children or those unfamiliar with this product and its compatible brake systems to use it. 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.
- For best results, keep the kit clean and dry. Remove any fluid, oil, or grease before and after work, particularly from the handle and fittings.

- ALWAYS use personal protective equipment (PPE) suitable to your task. Always wear ANSI-approved eye and hand protection while using this product. Nonslip footwear is also highly recommended. Other equipment such as ear, head, and body protection may also be necessary depending on your work and other equipment.
- Dress properly 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.
- ALWAYS know and understand the specific safety warnings and instructions for your vehicle before using this kit. Use the correct fluids, pressures, adapters, etc. for your vehicle. Make sure the parking brake is activated before beginning any work. Use with jack and jack stands able to fully support the necessary weight. Never touch any heated surface with exposed skin.
- Do not overreach. Keep proper footing and balance at all times.
- DO NOT use excessive pressure with this product and do not force it or its attachments. Use penetrating oil when the CV axle binds too tight.
- 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.
- Automotive repairing is intrinsically dangerous and this manual cannot cover all possible situations that you may encounter using this tool. ALWAYS exercise discretion and good judgment.

Package List



No.	Item	Qty.
A	Slide Hammer with 16mm Nuts	1
B	Steel Cable Adapter	1
C	63 mm CV Joint Fork	1
D	48 mm CV Joint Fork	1
E	Outer CV Joint Adapter with 24.5mm Opening	1

Operation

There are two ways to remove the CV joint axle, either from the inner joint or the outer joint depending on the specific make of your vehicle.

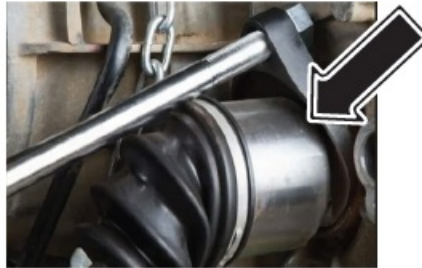
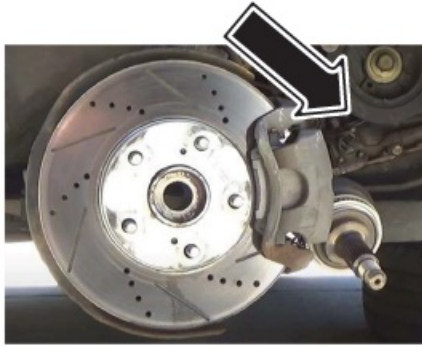
Assembly

1. Referring to your vehicle's servicing manual, choose an adapter (B, C, D, or E) that will suit your axle size.
2. Loosen and remove the outermost nut on the slide hammer.
3. Turn the other nut a bit closer to the slide hammer so the length of thread created can accommodate the selected adapter.
4. Fit the selected adapter on the slide hammer, tightening it with the two nuts.



Removing from the Inner CV Axle

1. Park the vehicle and set the parking brake.
2. Jack the side whose CV joint needs removing up.
3. Remove the lug nuts, nut lock, cotter pin, spring washer, hub nut, any washer on the outer CV joint axle, and then the wheel hub.
4. Slide the wheel hub out of the way and hang it using a hook.
5. Spray some penetrating oil to where the inner CV axle is connected to the transmission.
6. Hook the adapter (B, C or D) around the inner CV joint housing.
7. Wiggle the adapter, being sure it snugly grips the joint housing.
8. Slide the hammer back and forth along its shank until the inner CV joint comes off.



Removing from the Outer CV Axle

1. Park the vehicle and set the parking brake. Jack the side whose CV joint needs removing up.
2. Remove the lug nuts, nut lock, cotter pin, spring washer, hub nut, any washer on the outer CV joint axle, and then the wheel hub.
3. Slide the wheel hub out of the way and hang it using a hook.
4. Attach the outer CV joint adapter (E) to the slide hammer if they are not attached.



5. Spray some penetrating oil to where the inner CV axle is connected to the transmission.



6. Fix the adapter to the outer CV joint using the removed nut lock or hub nut the way shown.
7. Slide the hammer back and forth along its shank until the inner CV axle comes off.
8. Detach the adapter from the outer CV axle.

Maintenance

- Periodically check the tool kit for misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.


- Clean with a damp cloth, using a mild detergent or mild solvent. Do not use caustic chemicals.
- If not to be using the kit for an extended period, coat the threads with quality anti-corrosive oil and store in the original storage box in a place inaccessible to children and away from direct sunlight.

Contact Us

- Thank you for choosing our products! If you have any questions or comments, contact us at support@orionmotortech.com and we'll resolve your issue ASAP!
- For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.



Documents / Resources

	<p>Orion Motor Tech V20231219 CV Axle Puller Tool Set [pdf] User Manual V20231219 CV Axle Puller Tool Set, V20231219, CV Axle Puller Tool Set, Axle Puller Tool Set, Tool Set, Set</p>
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References

- [User Manual](#)

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