

Orion Motor Tech SUVELAM

Orion Motor Tech Disc Brake Pad and Caliper Service Tool Kit

MODEL: SUVELAM (FBA-CWBRD22BK)

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Orion Motor Tech Disc Brake Pad and Caliper Service Tool Kit. This 24-piece kit is designed to assist in the maintenance and replacement of disc brake pads and calipers on a wide range of vehicles. Please read all instructions carefully before beginning any work.

Key Features:

- **Complete 24-Piece Set:** Includes all necessary components for comprehensive brake service.
- **Easy Operation:** Designed for straightforward use, simplifying brake pad replacement.
- **Universal Compatibility:** Adapters fit a broad spectrum of vehicle makes and models.
- **Durable Construction:** Made from blackened #45 carbon steel for long-lasting performance and corrosion resistance.
- **Organized Storage:** Comes with a heavy-duty blow-molded case for secure and convenient storage.

PACKAGE CONTENTS

Your Orion Motor Tech 24-piece Disc Brake Pad and Caliper Service Tool Kit includes the following items, neatly organized within a durable carrying case:

- 2 x Retaining Plates
- 2 x Thrust Bolt Assemblies (Left and Right-Handed)
- 18 x Disc Adapters (various sizes for broad compatibility)
- 2 x Brake Hangers
- 1 x Heavy-Duty Blow-Molded Carry Case
- 1 x Pair of Gloves



Figure 1: The complete Orion Motor Tech 24-piece Disc Brake Pad and Caliper Service Tool Kit, securely stored in its red blow-molded case.

24-PIECE COMPREHENSIVE SET



Figure 2: A comprehensive view of all 24 components of the brake tool kit, including the various disc adapters, thrust bolt assemblies, and brake hangers.

SETUP AND OPERATING INSTRUCTIONS

Follow these steps to properly set up and operate the disc brake caliper service tool kit for brake pad replacement:

1. **Prepare the Tool:** Attach one of the retaining plates to the threaded thrust bolt assembly. Ensure it is securely seated.
2. **Select the Correct Adapter:** Identify the appropriate disc adapter that matches the piston face of your vehicle's brake caliper. The kit includes 18 different adapters for various applications.

3. **Attach the Adapter:** Place the selected adapter onto the pegs of the retaining plate. The embedded magnets in the thrust bolt assembly will help hold the adapter in place.
4. **Position the Tool:** Carefully position the assembled tool onto the brake caliper piston. Ensure the adapter is flush against the piston face.
5. **Compress the Piston:** Rotate the T-handle of the thrust bolt assembly. Depending on your caliper type, you may need to turn clockwise or counter-clockwise to retract the piston back into the caliper. Continue turning until the piston is fully retracted, creating space for new brake pads.
6. **Remove the Tool:** Once the piston is retracted, carefully unwind the T-handle and remove the tool from the caliper.



Figure 3: Step-by-step visual guide for operating the brake caliper service tool.

Your browser does not support the video tag.

Video 1: Official product video demonstrating the use of the Orion Motor Tech Disc Brake Pad and Caliper Service Tool Kit for piston retraction.

Helpful Features:

- **Magnetic Adapters:** The thrust bolt assemblies feature embedded magnets to securely hold drive keys and adapters in place during use, preventing slippage.

WIDE COMPATIBILITY

The 18 Adapters Fit Nearly All Vehicles

ADAPTER	FITMENT
#0	GM; Cadillac Seville and Eldorado
#2	Citroën XM, Xantia, More
#3	Alfa Romeo; Audi; Austin; BMW 318iS, 320i, 325 TD, 518i, 525i, 740i, 850ci, M5; Ford Fiesta; Honda Concerto; Jaguar XJ6 and XJ40; Mercedes-Benz 190, 200, 300, 420, 560; Mitsubishi Colt; Nissan
#4	Alfa Romeo 164 2.0; Chevrolet Lumina; Fiat; Ford Telstar and Laser; Honda Prelude and CRX; Mazda; Pontiac Grand Prix; Saab 9000; Saturn; Subaru
#5	3/8" Square Drive
#6	Nissan Primera; VW Golf 4
#7	Audi 80, 90 V8, 100 Coupe; Buick GS & GSX; Ford Sierra ABS, 1985 Granada, 1985 Scorpio; Honda Prelude; Nissa Silvia 1.8 Turbo; Blue Bird Primera 2.0i & LS; Rover 8000; Saab 9000; Subaru L
#8	General Motors
#9	GM; Cadillac Seville and Eldorado
#10	Volkswagen
#A	Chevrolet Laguna; Renault R21
#E	Nissan Cefrio and Maxima
#F	Opel Corsa, Astra, Zafira, and Vectra
#K	Citroën C3 and C5
#K1	Citroën
#K2	Citroën
#M	Ford
#N	Honda; Renault; Saab

Figure 4: The strong magnetic socket adapter feature, ensuring secure attachment of disc adapters.

- **Bidirectional T-Handle:** The tool includes both left and right thrust bolt assemblies, allowing for piston retraction in either clockwise or counter-clockwise directions, accommodating various caliper designs.

STRONG MAGNETIC SOCKET ADAPTER

Embedded Magnets on Each Thrust Bolt Assembly
Hold Your Drive Keys & Adapters in Place



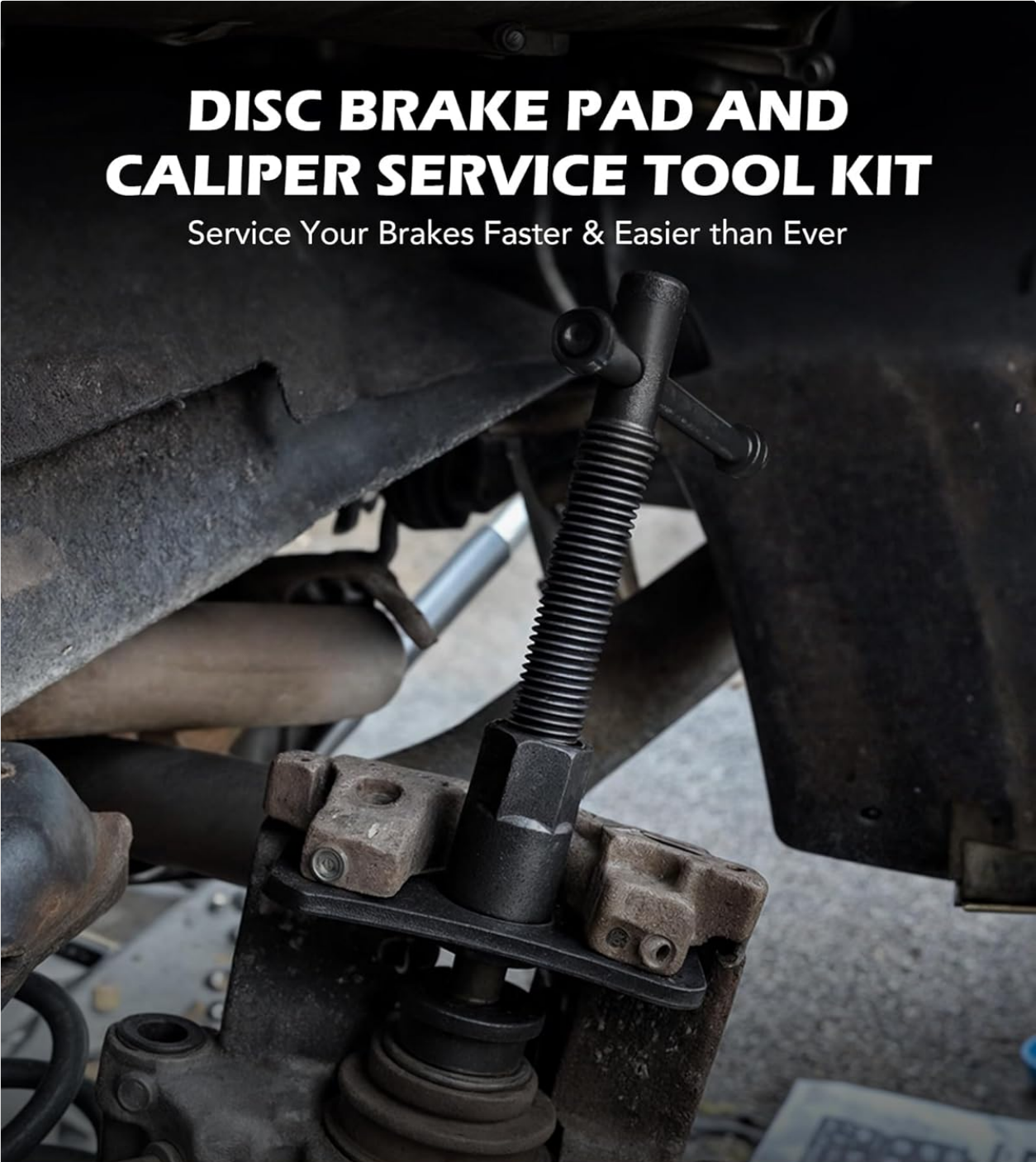
Figure 5: The bidirectional T-handle allows for smooth piston operation in both directions.

COMPATIBILITY

This disc brake caliper tool set is designed for universal compatibility, fitting most vehicles including hundreds of American, Japanese, and European models. The 18 included disc adapters cover a wide range of piston configurations. Refer to the table below for specific adapter fitment examples:

DISC BRAKE PAD AND CALIPER SERVICE TOOL KIT

Service Your Brakes Faster & Easier than Ever





**EASY
OPERATION**



**COMPLETE
PRO KIT**



**WIDE
COMPATIBILITY**



**LASTING
DURABILITY**

Figure 6: Detailed compatibility chart for the included disc adapters.

Adapter Fitment Guide

Adapter #	Fitment Examples
#0	GM; Cadillac Seville and Eldorado
#2	Citroën XM, Xantia, More

Adapter #	Fitment Examples
#3	Alfa Romeo; Audi; Austin; BMW 318iS, 320i, 325 TD, 518i, 525i, 740i, 850ci, M5; Ford Fiesta; Honda Concerto; Jaguar XJ6 and XJ40; Mercedes-Benz 190, 200, 300, 420, 560; Mitsubishi Colt; Nissan
#4	Alfa Romeo 164 2.0; Chevrolet Lumina; Fiat; Ford Telstar and Laser; Honda Prelude and CRX; Mazda; Pontiac Grand Prix; Saab 9000; Saturn; Subaru
#5	3/8" Square Drive
#6	Nissan Primera; VW Golf 4
#7	Audi 80, 90 V8, 100 Coupe; Buick GS & GSX; Ford Sierra ABS, 1985 Granada, 1985 Scorpio; Honda Prelude; Nissan Silvia 1.8 Turbo; Blue Bird Primera 2.0i & LS; Rover 8000; Saab 9000; Subaru L
#8	General Motors
#9	GM; Cadillac Seville and Eldorado
#10	Volkswagen
#A	Chevrolet Laguna; Renault R21
#E	Nissan Cefrio and Maxima
#F	Opel Corsa, Astra, Zafira, and Vectra
#K	Citroën C3 and C5
#K1	Citroën
#K2	Citroën
#M	Ford
#N	Honda; Renault; Saab

MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your tool kit:

- **Cleaning:** After each use, wipe down all components with a clean cloth to remove any brake dust, grease, or debris. For stubborn grime, use a mild degreaser and ensure all parts are thoroughly dried.
- **Lubrication:** Periodically apply a light coat of machine oil to the threaded rods of the thrust bolt assemblies to ensure smooth operation and prevent corrosion.
- **Storage:** Always return all components to their designated slots in the blow-molded case. This protects the tools from damage and keeps them organized for future use. Store the case in a dry, clean environment.
- **Inspection:** Before each use, inspect all components for any signs of wear, damage, or corrosion. Do not use damaged tools; replace them as necessary.

BIDIRECTIONAL T-HANDLE

Easily Return Pistons in Either Direction
for Smooth Operation

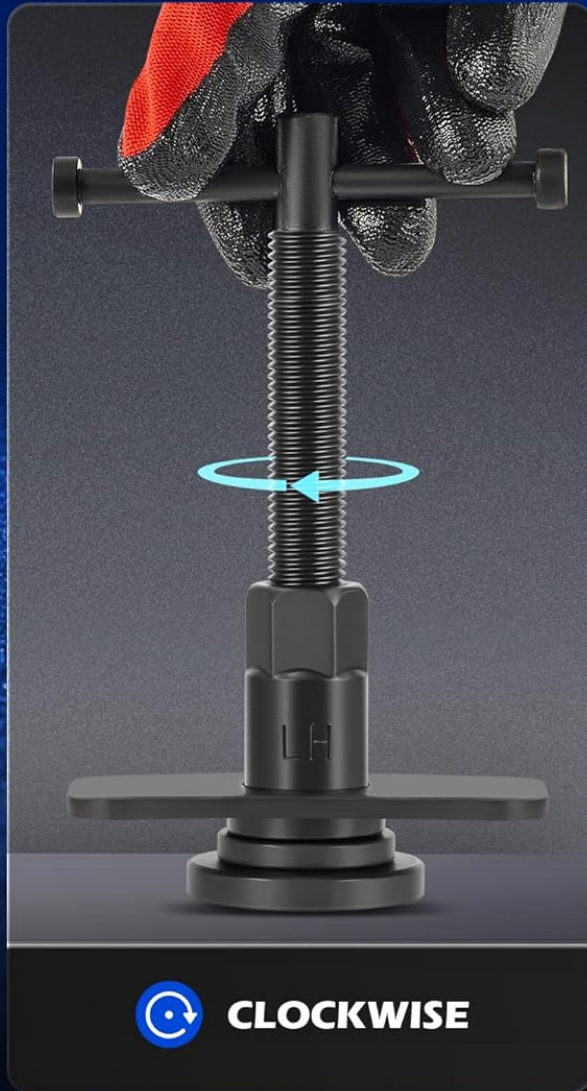


Figure 7: The tool kit components are built from durable AISI 1045 steel with a protective powder coating for lasting service. The included brake hangers are useful for suspending calipers during brake service, preventing strain on brake lines and hoses.

BUILT TO LAST

Enjoy Superior Strength, Durability, & Corrosion Resistance

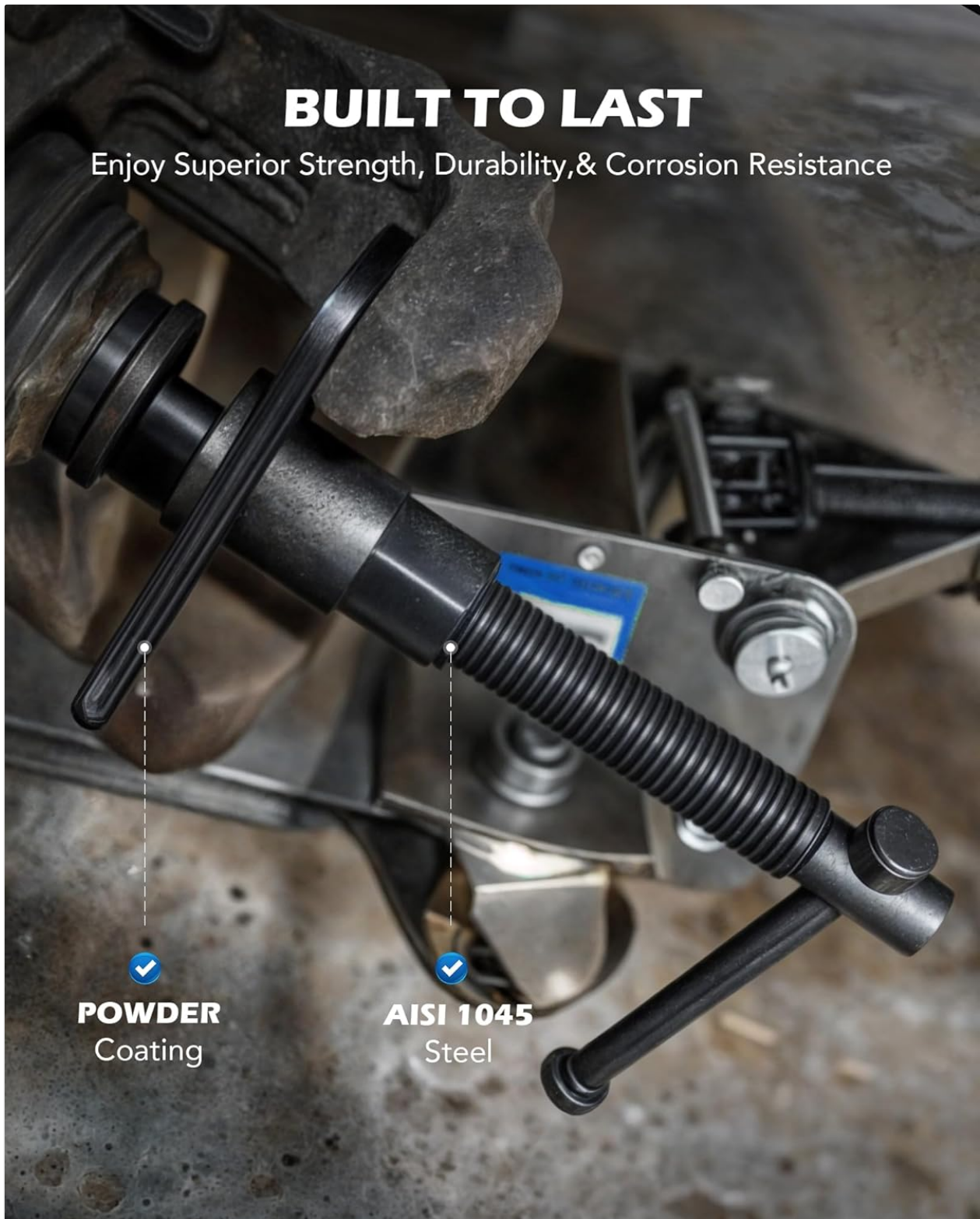


Figure 8: Brake caliper hangers for convenient and safe suspension of calipers during maintenance.

TROUBLESHOOTING

If you encounter issues while using the tool kit, consider the following common troubleshooting tips:

- **Piston Not Retracting:** Ensure you are using the correct adapter for your caliper. Some calipers require a specific rotation direction (clockwise or counter-clockwise); try turning in the opposite direction if the piston does not move. Verify that the caliper bleed screw is not seized and that there is no air in the brake system.
- **Adapter Slipping:** Confirm the adapter is correctly seated on the piston face and that the magnetic connection is secure. Ensure the retaining plate is properly attached to the thrust bolt.

- **Tool Feels Stiff:** The threaded rods may require lubrication. Apply a small amount of machine oil to the threads. Ensure no debris is obstructing the movement of the T-handle.
- **Damage to Components:** If any part of the tool kit appears damaged or worn, discontinue use immediately and replace the affected component. Using damaged tools can lead to injury or further damage to your vehicle.

For persistent issues or complex brake system problems, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

- **Manufacturer:** Orion Motor Tech
- **Brand:** Orion Motor Tech
- **Item Weight:** 6 pounds
- **Package Dimensions:** 12.87 x 8.74 x 2.44 inches
- **Item Model Number:** SUVELAM
- **Manufacturer Part Number:** FBA-CWBRD22BK
- **Material:** Blackened #45 Carbon Steel
- **Kit Pieces:** 24 (including 18 disc adapters, 2 thrust bolt assemblies, 2 retaining plates, 2 brake hangers, and case)
- **First Available Date:** August 17, 2020

WARRANTY AND SUPPORT

Orion Motor Tech products are designed for quality and durability. For specific warranty information, including coverage details and duration, please refer to the warranty card included with your product or visit the official Orion Motor Tech website. For technical support, replacement parts, or any inquiries regarding your Disc Brake Pad and Caliper Service Tool Kit, please contact Orion Motor Tech customer service directly through their official channels.

Contact Information: Please refer to the packaging or the official Orion Motor Tech website for the most current customer support contact details.

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Related Documents - SUVELAM

Brake Bleeder Set User Manual 	Orion Motor Tech Brake Bleeder Set User Manual Comprehensive user manual for the Orion Motor Tech Brake Bleeder Set, covering safety precautions, detailed specifications, parts identification, step-by-step operation instructions, and essential maintenance tips for automotive brake bleeding.
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Brake Bleeder Set User Manual  Read Carefully Before Use Keep Out of Children's Reach	Orion Motor Tech Brake Bleeder Set User Manual - Automotive Maintenance Guide Comprehensive user manual for the Orion Motor Tech Brake Bleeder Set (Model BBT-D005-00). Includes safety information, specifications, parts list, operation instructions, and maintenance guidelines for automotive brake bleeding.
10-Piece 3/8" Socket Set User Manual  Read Carefully Before Use Keep Out of Children's Reach	Orion Motor Tech 10-Piece 3/8" Socket Set User Manual User manual for the Orion Motor Tech 10-Piece 3/8" Socket Set, providing safety information, package contents, operating instructions, and maintenance guidelines for automotive use.
INSTRUCTION MANUAL 1/2-2T FOLDABLE SHOP CRANE By: Orion Motor Tech  1/2-2T FOLDABLE SHOP CRANE Read Carefully Before Use Keep Out of Children's Reach	Orion Motor Tech 1/2-2T Foldable Shop Crane Instruction Manual Comprehensive instruction manual for the Orion Motor Tech 1/2-2T Foldable Shop Crane, covering main specifications, safety instructions, main construction details, and operation and maintenance procedures.
Vacuum Pump User Manual  Read Carefully Before Use Keep Out of Children's Reach	Orion Motor Tech Vacuum Pump User Manual - VPH-E001-00 Comprehensive user manual for the Orion Motor Tech VPH-E001-00 vacuum pump. Includes safety information, specifications, operation, maintenance, and troubleshooting guides for HVAC servicing.
Orion Motor Tech U.S. Limited Warranty Terms and Conditions Orion Motor Tech, LLC 10000 W. 10th Ave., Suite 100 Denver, CO 80202 Phone: 800.828.7676 Fax: 303.440.7676 Email: sales@orionmotortech.com Website: www.orionmotortech.com 1. WARRANTY PERIOD Orion Motor Tech warrants its products for a period of 12 months from the date of purchase. This warranty is limited to the original purchaser of the product and is non-transferable. 2. EXCLUSIONS This warranty does not cover products that have been modified, misused, or damaged by accident, fire, flood, or other causes beyond the control of Orion Motor Tech. Products that are used in commercial or industrial applications are excluded from this warranty. 3. REMEDY If a product is found to be defective within the warranty period, Orion Motor Tech will, at its discretion, repair, replace, or refund the product. The remedy shall be provided within a reasonable time frame. 4. LIMITATION OF REMEDY Orion Motor Tech's liability is limited to the repair, replacement, or refund of the defective product. Orion Motor Tech is not liable for any consequential or incidental damages, including lost profits or business interruption. 5. FORCE MAJEURE This warranty shall be void in the event of a natural disaster, war, or other event beyond the control of Orion Motor Tech. 6. ENTIRE AGREEMENT This warranty constitutes the entire agreement between the parties and supersedes all other warranties, express or implied, that may be made by Orion Motor Tech or its sales representatives.	Orion Motor Tech U.S. Limited Warranty Terms and Conditions Detailed terms and conditions for the Orion Motor Tech U.S. Limited Warranty, covering product defects, warranty period, exclusions, and consumer responsibilities for products purchased in the United States.