



VIDEO  
INSTRUCTIONS

90150

# King Pin Press

## // Safety Warning

**Read all instructions and safety warnings prior to operation.**

**Failure to do so could result in equipment damage, personal injury, or even death.**

**CAUTION:** Use replacement parts and accessories provided by tiger tool only. All replacement parts and accessories are available. Keep hydraulic coupler protected when not in use. Dust caps should be used on couplers when not in use to avoid contaminants from entering the hydraulic cylinder and power source. This practice will help to extend the life of this product and ensure continued consistent operation.

- Stay Alert! Watch what you are doing and use common sense when operating this tool.
- Inspect product for damage prior to using; do not use if product is in unsafe condition.
- Do not operate tool while under the influence of drugs, alcohol, or medication.
- Always use safety equipment to prevent injuries. Approved face and eye protection must always be worn by the operator, as well as others in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Dress properly. Do not wear loose clothing or jewelry.
- Keep your hair, clothing and gloves away from moving parts.
- Keep hands clear of all pressurized hydraulic components.
- Always ensure hoses are free from sharp bends and kinks.
- Keep your work area clean and well lit.
- Cylinders are designed for 10,000 psi (700 bar) maximum working pressure. Do not connect to a pump with a higher rated pressure. Use a pressure gauge in the system at all times. Ensure all components in the system are rated for 10,000 psi (700 bar).

## Tiger Tool International Incorporated Limited Warranty and Exclusion of Liability. For more information, visit [tigertool.com](http://tigertool.com)

### Warranty Coverage

Tiger Tool International Incorporated ("Tiger Tool") offers a Lifetime Warranty on its branded tools (the "Lifetime Warranty") and a 2-year warranty on its branded hydraulic components (the "2-Year Warranty") to customers who purchase from Tiger Tool or its Authorized Dealers. The Lifetime Warranty and the 2-Year Warranty (referred to together as the "Warranty") cover defects in materials and workmanship.

### Exclusions and Limitations of Liability

The Warranty only applies to new tools or hydraulic components owned by the original customer and used according to the specific instructions for use provided by Tiger Tool with the product.

The Warranty excludes tools and hydraulic components subjected to abnormal use, misuse, accidents, modifications, neglect, or lack of maintenance.

Tiger Tool's liability for any Warranty claim is limited to repairing the tool or hydraulic component, replacing it, or refunding the purchase price at its sole discretion. Tiger Tool reserves the right to change the design, material, and construction of its tools and components, and to discontinue any tool or hydraulic component, at any time without notice.

The Warranty is the only warranty and exclusive remedy available to the customer. Tiger Tool is not liable for any other damages or claims relating to or arising from any alleged defect in materials or workmanship, including economic loss, bodily injury, property damage, or indirect or consequential damages such as lost profits, revenues, sales, business opportunities or goodwill, or business interruptions or delays, special damages, costs, or interest. Tiger Tool and the customer agree that the implied warranties in section 18 of the Sale of Goods Act do not apply.

If Tiger Tool denies a Warranty claim, the customer must retrieve the tool at their own expense within four months of notice of the denial. Tiger Tool will attempt to contact the customer three times during this period. After four months, the customer forfeits any claims or interests in the tools.

Disputes arising from this Warranty or related to the sale or use of a tool will be governed by the laws of British Columbia and adjudicated in Vancouver, B.C. Canada, by a sole arbitrator under the Arbitration Act.

### Warranty Claims

To make a Warranty claim, customers must obtain an RMA from our website ([www.TigerTool.com](http://www.TigerTool.com)) and then send the tool to one of the specified addresses, pre-paid and insured at their own expense.

**US Returns:** Tiger Tool 115 First Street PMB-T75520, Sumas, WA 98295

**Canada Returns:** Tiger Tool 160-34434 McConnell Road, Abbotsford, B.C., V2S 7P1



To make a return or to learn more about the Tiger Tool Return Policy, scan or visit [tigertool.com/policies/refund-policy](http://tigertool.com/policies/refund-policy)

U.S. Patent No.  
9511488

**TIGER TOOL**

**Canada**  
160-34434 McConnell Road,  
Abbotsford, BC V2S 7P1

**USA**  
115 First Street, PMB-T75520  
Sumas, WA 98295



Call or text Technical Support.

**1.800.661.4661**

# Operating Instructions

View the King Pin Press demonstration video online at [tigertool.com](http://tigertool.com)

**NOTE:** Hammering this tool will void your warranty.

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INSTRUCTIONS



## Using the 90150

**NOTE:** Both 1.25" diameter forcing screws share the same anvil.

**NOTE:** The 0.875 diameter forcing screw is designed for use with up to a 1/2" impact wrench. The 1.25" diameter forcing screw is designed for use with up to a 1" impact wrench.

- 1 Remove the hub
- 2 Remove the cotter pin and castle nut from the tie rod end and make sure tie rod end threads are clean and free of damage.
- 3 Select the corresponding sized Tie Rod End Remover. Thread on the tool until it bottoms out, then back it off one complete turn. **(Figure 1)**
- 4 Strike the top of the tool with a hammer, tie rod will "pop" loose. Remove the tool.
- 5 Remove the king pin wedge pins.
- 6 Place the Screw Plate (90150-21) over the king pin and insert two 5/8"x15" screws (90150-9) through the outer holes **(Figure 2)**. If the king pin is less than 1.25" in diameter, you'll need to swap the 1.25" threaded insert (90150-18) for the 0.875" threaded insert (90150-20). The threaded insert is retained by a spring clip to remove insert press the on the small end of the thread insert with enough force to compress the spring, the insert will then slide out.
- 7 Position the Clearance Plate (90150-2) beneath the king pin and thread two 5/8"x15" screws (90150-9) into the outer holes **(Figure 3)**. For 2 1/2" king pins, use the Tiger Tool 90153 Clearance Plate. Visit [tigertool.com](http://tigertool.com) to purchase.

**NOTE:** If servicing an Isuzu NPR or GMC/Chevrolet W Series truck, use the Tiger Tool 90151 adapter (not included) in the bore of the clearance plate (90150-2). Visit [tigertool.com](http://tigertool.com) to purchase.

- 8 Install Tap Bolts (90150-10) into the torque arms with the hex heads facing the axle. Place the Torque Arms (90150-3) over the Clearance Plate (90150-2). Thread the inner two 5/8"x15" screws (90150-9) through the arms and into the Clearance Plate **(Figure 4)**. Hand tighten the Tap Bolts until the hex head touches the axle **(Figure 6)**. In some cases, you may not be able to use the Torque Arms. Be extra cautious when using the tool without them.

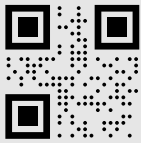


## Operating Instructions

- 9 Use an impact wrench to tighten all four 5/8"x15" screws (90150-9) until the Clearance Plate (90150-2) is snug against the bottom of the axle. Alternate tightening the four screws, ensuring the Clearance Plate and Screw Plate (90150-21) are parallel and concentric to the king pin **(Figure 5)**.
- 10 Apply clean SAE 30 oil to the Forcing Screw and hand thread it into the Screw Plate (90150-21). If there is limited space above the tool, use the Forcing Screw - Short (90150-13) and transfer the 1.25" anvil (90150-16) from Forcing Screw (90150-4). Hand tighten until the Forcing Screw anvil touches the king pin.
- 11 Apply force to the Forcing Screw until the king pin falls through the bottom of the Clearance Plate (90150-2) **(Figure 7)**.
- 12 Clean and lubricate the tool and put it back into the case.

### Preventative Maintenance

Keep forcing screw clean and lubricated at all times with SAE 30 lube for the threads.

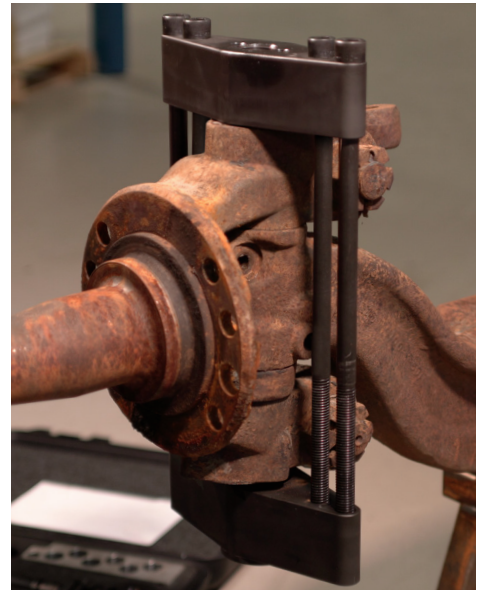


#### Need some assistance with your Tiger Tool?

No worries! Scan this QR code with your phone to start texting with someone who can help out.

1.800.661.4661

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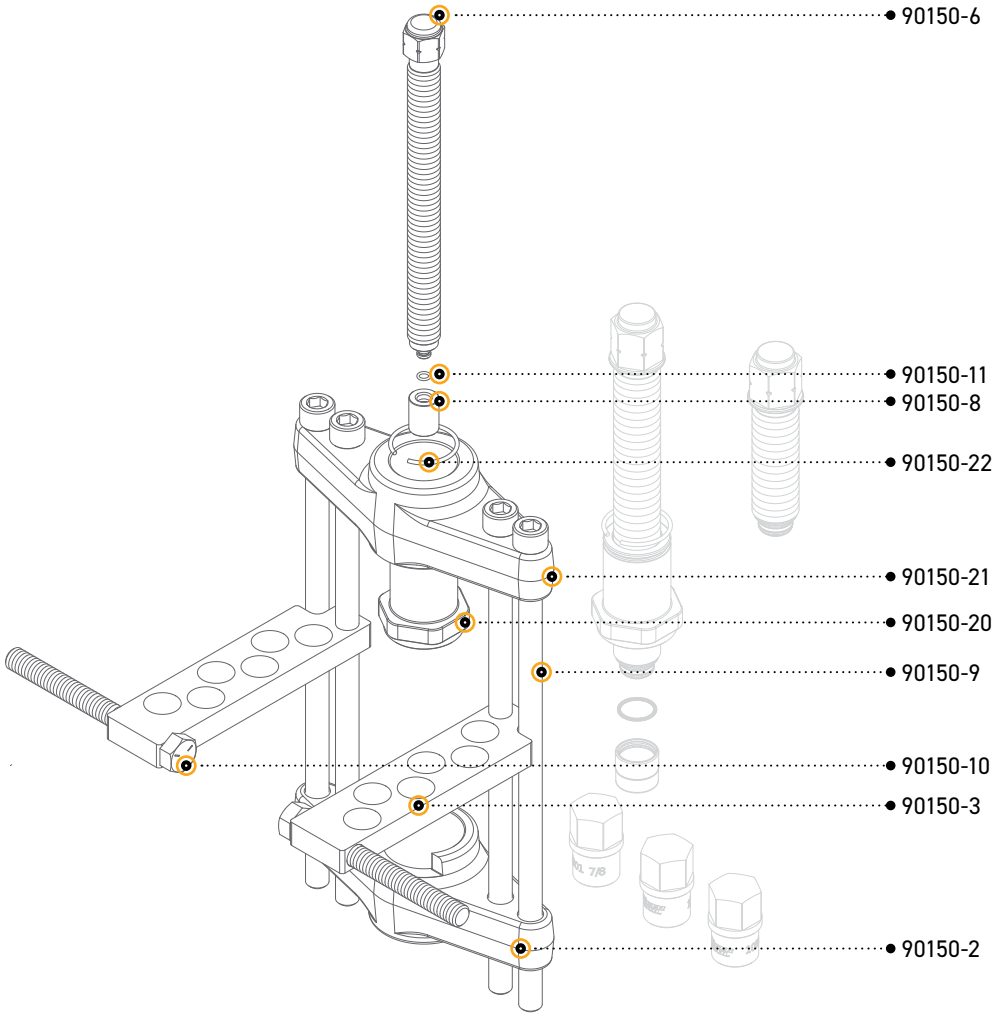


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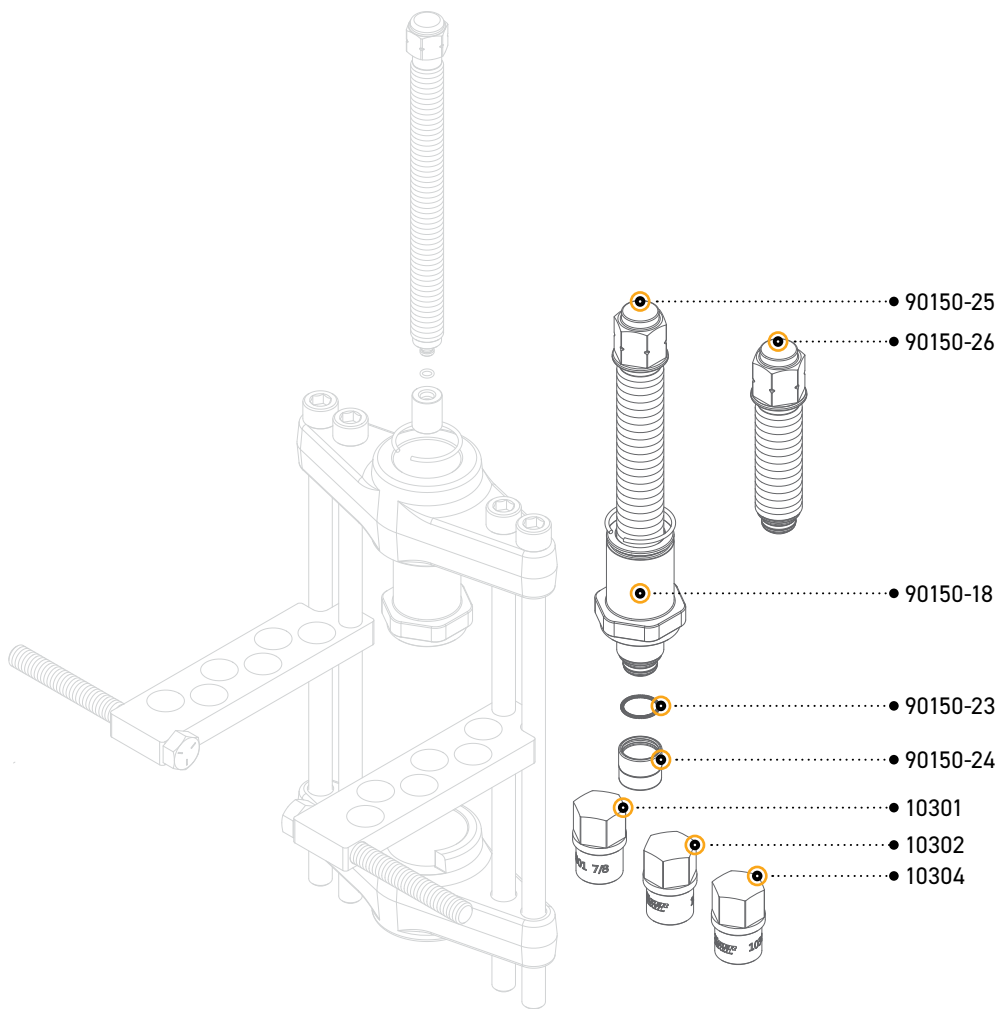
90150 – King Pin Press

# Parts Breakdown



| Part Number | Description            | Qty. |
|-------------|------------------------|------|
| 90150-2     | Clearance Plate        | 1    |
| 90150-3     | Torque Arm             | 2    |
| 90150-6     | 0.875" Forcing Screw   | 1    |
| 90150-8     | 0.875" Anvil           | 1    |
| 90150-9     | 5/8"-11 X 15" SHCS     | 4    |
| 90150-10    | 5/8"-11 X 6" Tap Bolt  | 2    |
| 90150-11    | O Ring                 | 1    |
| 90150-20    | 0.875" Threaded Insert | 1    |
| 90150-21    | Screw Plate            | 1    |
| 90150-22    | External Snap Ring     | 2    |

Parts Breakdown



| Part Number | Description                     | Qty. |
|-------------|---------------------------------|------|
| 90150-18    | 1.25" Threaded Insert           | 1    |
| 90150-23    | Garter Spring                   | 2    |
| 90150-24    | 1.25" Anvil                     | 2    |
| 90150-25    | Forcing Screw                   | 1    |
| 90150-26    | Short Forcing Screw             | 1    |
| 10301       | Tie Rod End Remover - 7/8"-14   | 1    |
| 10302       | Tie Rod End Remover - 3/4"-16   | 1    |
| 10304       | Tie Rod End Remover - M20 X 1.5 | 1    |