SAFETY

This instruction manual must be read with particular attention to the following safety guide lines, by any person servicing or operating this tool.

1. Safety Glossary
   - Product complies with requirements set forth by the relevant European directives.
   - Read manual prior to using equipment.
   - Eye protection required while using this equipment.
   - Hearing protection required while using this equipment.

2. CAUTIONS - must be understood to avoid severe personal injury.
   - Caution: show conditions that will damage equipment or structure.
   - Notes: are reminders of required procedures.
   - Bold, italic type and underlining: emphasizes a specific instruction.

3. Huck equipment must be maintained in a safe working condition at all times and inspected on a regular basis for damage or wear. Any repair should be done by a qualified repairman trained on Huck procedures.

4. Repairman and Operator must read manual prior to using equipment and understand any Warning and Caution stickers/labels supplied with equipment before connecting equipment to any primary power supply. As applicable, each of the sections in this manual have specific safety and other information.

5. When repairing or operating Huck installation equipment, always wear approved eye protection. Where applicable, refer to ANSI Z87.1 - 1989.

6. Disconnect primary power source before doing maintenance on Huck equipment.

7. If any equipment shows signs of damage, wear, or leakage, do not connect it to the primary power supply.

8. Make sure proper power source is used at all times.

9. Never remove any safety guards or pintail deflector.

10. Never install a fastener in free air. Personal injury from fastener ejecting may occur.

11. Do not abuse tool by dropping or using it as a hammer. Never use hydraulic or air lines as a handle. Reasonable care of installation tools by operators is an important factor in maintaining tool efficiency, eliminating downtime, and in preventing an accident which may cause severe personal injury.

12. Never place hands between nose assembly and work piece.
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**PRINCIPLE OF OPERATION AND TOOL SPECIFICATIONS**

*READ INSTRUCTIONS THOROUGHLY PRIOR TO OPERATING THE RIVETER. THIS RIVETER IS DESIGNED FOR INTERMITTENT DUTY AND MAINTENANCE WORK ONLY.*

The AK-175 is a pneumatic tool designed to set from 1/8" up to and including 1/4 inch diameter steel, stainless steel, aluminum and plastic rivets by changing only the nosepiece. The AK-175 has a rated full pressure of over 3,500 lbs. The AK-175 riveter will operate effectively at any air pressure between 90 and 120 psi. WHEN SETTING 1/4" RIVETS OR MAGNALOK®, A MINIMUM AIR PRESSURE OF 110 p.s.i. MUST BE MAINTAINED. The maximum air pressure used with the tool should not exceed 120 psi.

The hydraulic system is sealed and, although there may be some visible residue around the trigger area, oil need not be added. If the AK-175 should become damaged and leak oil from the tool, IT SHOULD BE RETURNED TO AN AUTHORIZED SERVICE CENTER. (Authorized Service Centers may be found in Tool Service Center Section of the Manual)

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
<th>Min PSI</th>
<th>Max PSI</th>
<th>Rivet Diameter</th>
<th>Pull Pressure</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK-175</td>
<td>32 oz</td>
<td>90*</td>
<td>120</td>
<td>1/8&quot;-1/4&quot;</td>
<td>3500 lbs.</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

*When setting 1/4" MAGNALOK® rivets, MIN Air pressure is 110 psi

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**Accessories**

*Nose Extension Kit P/N 205490*

For more accessories see the optional accessories section
OPERATING INSTRUCTIONS

The AK-175 pneumatic riveter installs fasteners by a pull and release system. Squeezing the ACTUATING TRIGGER "A" only (Fig. 2) will actuate the tool. The tool must be actuated when installing fasteners and changing nose pieces. After installing the fastener or changing the NOSE PIECE the tool must be returned to its original position, this releases the pintail if a fastener was installed. To do this pull the tool downward and squeeze RELEASING TRIGGER "B" only (Fig. 3). See sections on NOSE PIECE INSTALLATION and FASTENER INSTALLATION for detailed instructions.

SELECT THE PROPER NOSE PIECE FOR THE CORRECT INSTALLATION OF FASTENER AND FUNCTION OF TOOL.

Nose Piece Installation:

To change the Nose Piece
1. Remove the NOSE PIECE in the tool by unscrewing it in a counterclockwise direction.
2. Actuate tool until it is fully extended. (There should be gap of approximately 3/4" in between the RESERVOIR SHIELD and the tool body. (see fig. 1)
3. Hand tighten the NOSE PIECE into the NOSE TUBE and release the tool by squeezing the releasing trigger “B” only.

Fastener Installation:
Install correct nose piece on tool (see NOSE PIECE installation section).
1. Insert pintail of rivet in to the nose piece.
2. Then Position the rivet body in to work piece to be fastened.
3. Hold the tool steady against the work piece and squeeze ACTUATING TRIGGER "A" only, until fastener is installed and rivet pintail is broken* (see fig. 2 below)

NOTICE:
Before operating tool, make sure that all NOSE PARTS have been screwed in HAND TIGHT.
Frequently check that nose components do not vibrate loose during operation

*The AK-175 has a 5/8 inch work travel and will set most rivets in one cycle. If the tool reaches the end of its travel before the rivet breaks, the hydraulic system will lug down. DO NOT continue lugging the tool. Release the tool by squeezing the RELEASING TRIGGER "B", regrip the rivet, squeeze the ACTUATING TRIGGER "A" and finish the installation.
**Rivet Pintail Removal:**

Once Rivet is installed pintail must be removed
1. Point tool downward
2. Squeeze RELEASING TRIGGER “B”.

It is necessary to **REMOVE PINTAIL BEFORE ATTEMPTING TO INSTALL ANOTHER RIVET** (see fig 3).

**Figure 3**

---

**Three/Two Piece Jaw Installation and Removal:**

1. The jaws are installed at the factory and should only need to be removed for periodic inspection and cleaning. To remove the jaws unscrew the NOSE TUBE from the tool in a counterclockwise direction.

---

2. **TWO PIECE JAW SYSTEM**

   Remove the JAW HOLDER by unscrewing it in a counterclockwise direction. Drop JAWS out from SPRING side. Push JAW PUSHER flush with PULLER SHAFT while squeezing the RELEASING TRIGGER (See Figure 3 above).

---

2. **THREE PIECE JAW SYSTEM**

   Remove the JAW HOLDER by unscrewing it in a counterclockwise direction. Drop JAWS out from SPRING side. Actuate tool by squeezing the ACTUATING TRIGGER (see fig 3 above) until the jaw pusher is fully extended. Stop as soon as the JAW PUSHER is in the extended position.
3. **TWO PIECE JAW SYSTEM**
To replace JAWS, hold JAW HOLDER large end down and at a slight angle. Place jaws in one at a time. Add a small amount of jaw lubricant to jaws and jaw holder prior to assembly.

4. When jaws are in place, insert jaw holder into spring, being sure to keep large end of jaw holder pointing downward.

5. **TWO JAW SYSTEM**
Hold tool with the PULLER SHAFT pointing down and screw the jaw holder on to the PULLER SHAFT. HAND TIGHTEN ONLY.

6. Replace the NOSE TUBE and NOSE PIECE, HAND TIGHTEN ONLY. The tool is now ready to use.

3. **THREE PIECE JAW SYSTEM**
To replace JAWS, hold JAW HOLDER large end down and at a slight angle. Hold finger over small opening and place jaws in one at a time. Add a small amount of jaw lubricant to jaws and jaw holder prior to assembly.

5. **THREE JAW SYSTEM**
Hold tool with the PULLER SHAFT pointing down and the JAW PUSHER fully extended. Screw the jaw holder on to the PULLER SHAFT. HAND TIGHTEN ONLY.
Steps for Proper Tool Maintenance and Operation

1. Disassemble and clean NOSE components periodically or if the pintails do not drop out freely, use a pick to clean the jaw grooves. Wash components in mineral spirits or isopropyl alcohol. Apply a small amount of light weight oil to the JAWS and inside of JAW HOLDER prior to assembly.

2. To ease NOSE TUBE and NOSE PIECE installation, extend tool by squeezing actuating trigger.

3. DO NOT USE TOOL AS A LEVER if rivet pin tail is jammed while re-gripping. Instead, with releasing trigger depressed, push tool nose against work piece for the jaws to get a deeper grip.

4. If rivet pintail is stuck in tool after breaking, lightly tap nose against a hard surface while squeezing the releasing trigger, pintail should then fall out.

5. Before operating tool, make sure that all NOSE PARTS have been screwed in HAND TIGHT.

6. For long life of tool, do not continue to run tool at the end of travel.

7. The AK-175 should not be used at temperatures below 35° F. unless it is first brought to room temperature and cycled several times, normal use of the tool after warming should keep it warm enough for proper operation.

8. If tool will not reverse, remove NOSE TUBE and inspect for any foreign matter that might have caused jamming between JAW HOLDER and inside of NOSE TUBE.

9. Frequently check that nose components do not vibrate loose during operation.

---

### Nose Pieces

*Included in AK-175 kit*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>202156</td>
<td>*1/8&quot; for Trim Molding Pop Rivets</td>
<td>202155</td>
<td>*1/4&quot; Auto Split &quot;T&quot; Rivets</td>
</tr>
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<td></td>
<td>Ø.160</td>
<td></td>
</tr>
<tr>
<td>202159</td>
<td>&quot;3/32&quot; &amp; 1/8&quot; Pop Rivets</td>
<td>202157</td>
<td>*1/4&quot; Pop &amp; Plastic Rivets</td>
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<td></td>
<td>Ø.160</td>
<td></td>
</tr>
<tr>
<td>202190</td>
<td>*1/8&quot; Stand Off Pop Rivets</td>
<td>202169</td>
<td>1/4&quot; Monobolts</td>
</tr>
<tr>
<td>Ø.093</td>
<td></td>
<td>Ø.160</td>
<td></td>
</tr>
<tr>
<td>202158</td>
<td>*5/32&quot; &amp; 3/16&quot; Pop &amp; Plastic Rivets</td>
<td>202193</td>
<td>Spec. GM Glass Stop Travel, Pop Rivets</td>
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<tr>
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<td>Ø.160</td>
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<tr>
<td>202168</td>
<td>3/16&quot; Monobolts</td>
<td>202142</td>
<td>1/4&quot; Magna Lok</td>
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</table>
# Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
</table>
| 1.) Rivet Pintail is stuck in tool          | First Step:  
Lightly tap nose against a hard surface while after breaking squeezing HANDLES and pressing down the RELEASING BUTTON with tool pointing downward Pintail should then fall out, see fig. 4. (If that does not work try Second Step.)  
Second Step: (Use this only if first step does not work)  
Remove NOSE TUBE and JAW HOLDER (for help see figure 5) take out pintail and reassemble. |
| 2.) Tool will not reverse                    | Push on the handles until you feel a slight give, then press the RELEASING BUTTON and continue pushing on the handles, the tool should then reverse. If this does not work  
Remove NOSE TUBE and inspect for any foreign matter that may have cause the jamming between JAW HOLDER and the inside of NOSE TUBE. |
| 3.) Fastener does not pull rivet            | The JAW HOLDER is loose. Remove the NOSE TUBE and tighten the JAW HOLDER by turning it counter clockwise (See Three Piece Jaw Installation and Removal.) |
| 4.) The Rivet does not fit into the Tool    | The rivet is to large, or the wrong NOSE PIECE is on the tool. To find the correct NOSE PIECE (see chart on page 11). If you do not have the needed NOSE PIECE, See next page for how to order the correct one. |
| 5.) Premature Breaking                      | See solution for problem 4. Also verify the grip of the fastener and make sure you are not rocking the tool during installation. |
| 6.) Jamming of Tool                         | See solution for problem 4. Also verify that you have the proper jaw engagement and that all parts are hand tight and that the jaws are cleaned and properly assembled in jaw pusher (See Three Piece Jaw Installation and Removal) |
| 7.) Rivet not installed properly           | See solution for problem 4. Also verify that appropriate fastener is being used and proper fastener grip length for the application has been selected |
| 8.) Jaws Breaking                          | See solution for problem 4. Check to see all parts are properly assembled and hand tight. |
| 9.) Damaged Jaw Pusher                     | See solution for problem 4. Check to see if all parts are properly assembled. |
## Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>202156</td>
<td>Nose Piece - 1/8&quot; for Trim Molding Pop Rivets</td>
</tr>
<tr>
<td>202159</td>
<td>Nose Piece - 3/32&quot; &amp; 1/8&quot; Pop Rivets</td>
</tr>
<tr>
<td>202190</td>
<td>Nose Piece - 1/8&quot; Stand Off Pop Rivets</td>
</tr>
<tr>
<td>202158</td>
<td>Nose Piece - 5/32&quot; &amp; 3/16&quot; Pop and Plastic Rivets</td>
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<tr>
<td>202168</td>
<td>Nose Piece - 3/16&quot; Monobolts</td>
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<tr>
<td>202155</td>
<td>Nose Piece - 1/4&quot; Auto Split “T” Rivets</td>
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<td>202157</td>
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<td>Nose Piece - Spec. GM Glass Stop Travel, Pop Rivets</td>
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<td>202142</td>
<td>Nose Piece - 1/4” Magna Lok</td>
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<td>205490</td>
<td>Nose Extension Kit</td>
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<td>126016</td>
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<tr>
<td>202122</td>
<td>Two Piece Jaws</td>
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<tr>
<td>202929</td>
<td>Three Piece JAWS</td>
</tr>
</tbody>
</table>

To order an item please call your closest dealer.
LIMITED WARRANTIES

Tooling Warranty: Huck warrants that tooling and other items (excluding fasteners, and hereinafter referred as "other items") manufactured by Huck shall be free from defects in workmanship and materials for a period of ninety (90) days from the date of original purchase.

Warranty on "non standard or custom manufactured products": With regard to non-standard products or custom manufactured products to customer's specifications, Huck warrants for a period of ninety (90) days from the date of purchase that such products will meet Buyer's specifications, be free of defects in workmanship and materials. Such warranty shall not be effective with respect to non-standard or custom products manufactured using buyer-supplied molds, material, tooling and fixtures that are not in good condition or repair and suitable for their intended purpose.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. HUCK MAKES NO OTHER WARRANTIES AND EXPRESSLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING IMPLIED WARRANTIES AS TO MERCHANTABILITY OR AS TO THE FITNESS OF THE TOOLING, OTHER ITEMS, NONSTANDARD OR CUSTOM MANUFACTURED PRODUCTS FOR ANY PARTICULAR PURPOSE AND HUCK SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF SUCH TOOLING, OTHER ITEMS, NONSTANDARD OR CUSTOM MANUFACTURED PRODUCTS OR BREACH OF WARRANTY OR FOR ANY CLAIM FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Huck's sole liability and Buyer's exclusive remedy for any breach of warranty shall be, at Huck's option, to replacement or repair, at FOB Huck's plant, of Huck manufactured tooling, other items, nonstandard or custom products found to be defective in specifications, workmanship and materials not otherwise the direct or indirect cause of Buyer supplied molds, material, tooling or fixtures. Buyer shall give Huck written notice of claims for defects within the ninety (90) day warranty period for tooling, other items, nonstandard or custom products described above and Huck shall inspect products for which such claim is made.

Tooling, Part(s) and Other Items not manufactured by Huck.

HUCK MAKES NO WARRANTY WITH RESPECT TO THE TOOLING, PART(S) OR OTHER ITEMS MANUFACTURED BY THIRD PARTIES. HUCK EXPRESSLY DISCLAIMS ANY WARRANTY EXPRESSED OR IMPLIED, AS TO THE CONDITION, DESIGN, OPERATION, MER-