

SAFETY

This instruction manual must be read with particular attention to the following safety guidelines, 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.
   - Safety Glossary

   WARNINGS - Must be understood to avoid severe personal injury.

   CAUTIONS - show conditions that will damage equipment and or structure.
   Notes - are reminders of required procedures.
   Bold, Italic type and underlining - emphasizes a specific instruction.

2. 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.

3. 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.

4. See MSDS Specifications before servicing the tool. MSDS Specifications are available from you Huck representative or on-line at www.huck.com. Click on Installation Systems Division.

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. When using an offset nose always clear spent pintail out of nose assembly before installing the next fastener.

12. If there is a pinch point between trigger and work piece use remote trigger. (Remote triggers are available for all tooling).

13. 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.

14. Never place hands between nose assembly and work piece.

15. Tools with ejector rods should never be cycled with out nose assembly installed.

16. When two piece lock bolts are being used always make sure the collar orientation is correct. See fastener data sheet of correct positioning.
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## DESCRIPTION

### Table 1 - SPECIFICATIONS (Without Nose Assembly)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (overall)</td>
<td>9.50 inches</td>
</tr>
<tr>
<td>Diameter</td>
<td>2.62 inches</td>
</tr>
<tr>
<td>Stroke</td>
<td>1.25 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>7.25 pounds</td>
</tr>
</tbody>
</table>

Fasteners Installed. See SELECTION CHARTS, Form 461

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![Diagram](image)

**Figure 1—CLEARANCE DIMENSIONS**

- 10.75 in. = 273.0 mm
- 9.50 in. = 241.3 mm
- 7.70 in. = 195.6 mm
- 3.20 in. = 81.3 mm
- 2.62 in. = 66.5 mm
- 1.25 in. = 31.8 mm
- 7.25 lb. = 3.3 kg
PRINCIPLE OF OPERATION

The Huck Model 116 is a rugged, manually operated tool designed to install HUCKBOLT® Fasteners and Huck blind fasteners. The tool is operated with a standard wrench.

The Ball Screw Nut is operated with a wrench to supply the pulling force. This force is transmitted smoothly thru the Bearing Assembly to the nose assembly.

The tool includes Housing, Nose Assembly Adapter, Spindle and Retaining Nut, Bearing and Ball Screw Nut Assemblies, Wrenching Hex and Handle.

Nose assemblies must be ordered separately. See nose assemblies listed under 116 and 504 Tools of SELECTION CHARTS, Form 461. Interchangeable nose assemblies are listed for specific fasteners.

Figure 2 - SECTIONAL VIEW
PREPARATION FOR USE

The Model 116 Huck Installation Tool is shipped prepared for installing nose assemblies to tool. Select nose assembly for the fastener to be installed. See SELECTION CHARTS, Form 461, in HUCK INSTALLATION EQUIPMENT DATA or available separately from your Huck representative.

Assemble nose assembly per applicable NOSE ASSEMBLY DATA SHEET. See Figures 3 and 4, and following supplementary instructions for proper attachment to the 116 Tool.

Figure 3 - SPINDLE ADJUSTMENT

1. Remove Nose Retaining Nut (1) Nose Retaining Washer (2) and Nose Adapter (3) from tool housing.

2. Move spindle all the way out. Turn spindle until housing hole and spindle hole line up. Replace nose adapter in housing with three holes in alignment.

3. Move spindle to obtain 5/8 dimension. Insert rod thru holes to prevent spindle turning. See Figure 3.
4. Hold rod in holes. Screw assembled collet onto spindle until top of collet flat lines up with nose adapter of tool. See Figure 4.

5. If collet lock is not in spindle groove, continue to turn collet one-quarter turn or less until lock engages groove. See Figure 4.

6. If anvil has retaining ring, remove from anvil. Slide anvil over adjusted collet.

7. Slide Nose Retaining Washer (2) over anvil. Anvil without retaining ring groove does not require washer. Place nose retaining nut over anvil and tighten—hand-tight.

8. Install fastener in test plate of proper thickness with proper size holes. Inspect installed fastener.
OPERATING INSTRUCTIONS

Attach one of the following wrenches to the hex drive at the rear end of the tool.

a. Reversible ratchet socket wrench and 11/16 inch hex socket.
b. 11/16 inch box wrench.

3. Place anvil over pintail. Keep pintail completely within anvil. Turn Ball Screw (9) completely in, overcoming O-ring resistance, then release screw. When steps 1, 2 and 3 are done, complete jaw engagement of the pintail is assured and jaw failure is minimized.

4. Hold tool and nose assembly tightly against fastener and work at right angles (90°). Turn ball screw from housing with wrench. Apply enough force to break pintail.

5. Turn ball screw into housing until pintail self-ejects. If pintail does not eject, unscrew collet 1/4 turn. Repeat until ejection occurs.

MAINTENANCE AND REPAIR

TOOL MAINTENANCE

The 116 Tool requires a light film of Lubriplate on ball screw surfaces. Dirt on ball screw surface should be wiped off. Use rag and a little solvent. Reapply lubricant to screw. Thrust Bearings, pintail ejector and spring are most subject to failure. These spare parts may be ordered from Huck. Bearings may be purchased locally. Other parts are less likely to fail, but if necessary consult Parts List and Figure 5 for purchasing information.

NOSE ASSEMBLY MAINTENANCE

Metal chips must be cleaned from jaw teeth before build-up occurs. If nose assembly is used only with 116 Tool, only occasional jaw inspection is important. Use of nose assembly with fast acting tools necessitates daily cleaning. In either case, dip the nose into mineral spirits, or other suitable solvent, to clean jaws and wash away metal chips and dirt. Disassemble nose assembly to remove jaws if teeth are filled with metal particles. A sharp pointed “pick” is used to clean pull grooves. Reassemble as instructed per applicable Nose Assembly Data Sheet.
The simplicity and ruggedness of the 116 Tool eliminates all but routine cleaning and inspection. Use the Troubleshooting Chart to diagnose and correct malfunctions.

Eliminate the simplest possible cause of malfunction first. The most obvious and easily remedied maintenance is usually all that is required.

### Table 2 - TROUBLESHOOTING CHART

<table>
<thead>
<tr>
<th>TROUBLE</th>
<th>PROBABLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Fastener installation incomplete.</td>
<td>Wrong nose assembly for fastener or fastener grip number not correct.</td>
<td>See Selection Charts and Huck Fastener Standards Manual.</td>
</tr>
<tr>
<td>C. Jaw segments do not maintain proper position in collet.</td>
<td>Loose jaw follower.</td>
<td>Replace spring and/or O-ring if damaged. Add O-ring if required.</td>
</tr>
<tr>
<td>TROUBLE</td>
<td>PROBABLE CAUSE</td>
<td>CORRECTIVE ACTION</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>----------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>D. Ball screw of tool is difficult to turn to complete fastener installation.</td>
<td>Thrust bearings or steel balls of screw and nut assembly worn or broken.</td>
<td>Remove main sub-assembly from housing. Check steel balls of screw and nut assembly before further disassembly. Check thrust bearings.</td>
</tr>
<tr>
<td>E. Pintail is not ejected.</td>
<td>Nose assembly incorrectly attached to tool.</td>
<td>See ATTACHING NOSE ASSEMBLIES TO 116 TOOL.</td>
</tr>
<tr>
<td></td>
<td>Broken pintail ejector or ejector spring.</td>
<td>Disassemble only applicable sub-assemblies, and replace broken components.</td>
</tr>
</tbody>
</table>

**DISASSEMBLY AND ASSEMBLY**

**GENERAL**

During disassembly and assembly, take the following precautions to avoid damaging tool or components:

a. Always work on a clean surface.

b. Use relatively soft materials, such as brass, aluminum or wood when applying pressure.

c. Apply a continuous strong pressure, rather than sharp blows, to disassemble or assemble a component.

d. Never continue to force a component if it "hangs up" due to misalignment.

e. Smear Lubriplate 130AA or equivalent, on O-ring and mating surfaces to aid assembly. (Lubriplate is manufactured by Fiske Brothers Refining Company, and is available in most localities. A handy tube of Lubriplate 130AA is available from Huck as part number 502723). Thrust bearings require wheel bearing grease (Kendall S825 or equivalent - not available from Huck) for lubrication.
DISASSEMBLY AND ASSEMBLY TOOLS

Standard hand tools, such as copper or lead hammers, drifts, screw drivers, etc., which can be purchased at most local supply firms, are required. If possible, an arbor press and vise with soft jaws should be available.

A special Spanner Wrench, part number 100560, is available from Huck to aid in the disassembly and assembly of the Screw-Spindle Assembly (9) from the Housing (4).

DISASSEMBLY

For component identification, refer to Figure 5, Exploded View and Table 3, Part List. Numbers in parenthesis ( ) are reference numbers shown in Figure 5 and Table 3.

The following procedure is for a complete disassembly. Disassemble only the assemblies necessary to check and replace specific components that show wear or damage.

1. Nose assembly must be removed if attached to tool. Unscrew Nose Retaining Nut (1). Pull nose anvil away from tool.

2. Unscrew collet assembly.

NOTE

Before proceeding with disassembly, replace Nose Adapter (3) and Nose Retaining Nut on Housing (4). This will prevent accidental loss of steel balls from Screw and Nut Assembly (9). Information for assembling screw, nut and steel balls is given in paragraph 1 of Assembly Section.

3. Remove Retaining Ring (19), using Truarc Pliers No. 0200, from ball screw of screw and nut assembly. Take spindle stop (18) from ball screw.

4. Remove Retaining Ring (17), using Truarc Pliers No. 0500, from housing. Lift out Housing Cover Plate (16) from housing.

NOTE

Tape last few threads of screw, or install spindle stop and retaining ring to prevent loss of steel balls.

5. Place spanner wrench, 100560, over nut of screw and nut assembly.


7. Wipe off lubricant from assembly, and tape other side of screw. Nut and screw assembly are now held together, preventing loss of steel balls during disassembly of sub-assemblies.

8. Use a 5/32 X 2 inch drift with an arbor press to remove Spring Pin (11). Turn screw until Spring Pin (11) appears in hole in Bearing Housing (13). Hold sub-assembly in a vise to minimize rotation of components and maintain alignment of drift. Press pin out of Screw Spindle Nut (10). A vise or soft hammer and drift can be used, but are not as stable as an arbor press and portable vise.
9. Push a thin or pointed tool under Lock Button (14), and lift button out of bearing housing.

10. Unscrew Adapter Spindle (12) from bearing housing threads.

11. Slide Spring (8) and Pintail Ejector (7) from adapter spindle.

12. Turn bearing housing assembly so that Thrust Bearing (6) drops out.

13. Hold small rod thru hole of bearing housing and slightly within spring pin hole of screw spindle nut. Hold bearing housing stationary and unscrew ball screw from threads of screw spindle nut.

14. Pull ball screw from bearing housing. Turn bearing housing so that nut and bearings can be tapped out.

15. Push a pointed tool under O-ring (15) and slip from bearing housing.

16. Turn Handle Assembly from housing threads.

NOTE

Disassembly of the adapter spindle assembly and Bearing Housing Assembly does not require disassembly of the ball screw and nut assembly. Also, the screw and nut assembly is independantly disassembled.

17. If one or more steel balls accidently falls out of the ball screw and nut assembly, or components are to be replaced, disassemble as follows:

    a. Remove both screws from nut, and take retainer off split tube.

    b. Lift out tube, and lay flat.

    c. Remove top half of tube, and clean steel balls for inspection if applicable.

    d. Remove ball screw and steel balls from nut. Clean and inspect if applicable.

    e. For assembly of ball screw and nut assembly, see paragraph 1 of Assembly Section.

ASSEMBLY

For component identification, refer to Figure 5, Exploded View and Table 3, Parts List. Numbers in parenthesis ( ) are reference numbers shown in Figure 5 and Table 3.

Before assembling Tool:

    a. Clean components in mineral spirits or other solvents compatible with O-ring seals.

    b. Inspect bearings and components for wear and damage.

    c. Smear Lubriplate 130AA on O-ring and be especially liberal on the internal threads of the housing where the O-ring is susceptible to abrasion.

    d. Specifications for standard components, such as O-rings, are shown on the Parts List and may be purchased locally.
1. Assemble screw and nut assembly as follows:
   a. Spread a thick coating of Lubiplate in both halves of split tube.
   b. Place steel balls in one split half of tube. Press halves together. Plug ends of assembled tube with Lubiplate.
   c. Push ball screw into nut until wrenching hex has just cleared unthreaded end of nut.
   d. Place steel ball in hole nearest nut threads. Push ball straight down with small rod. Continue pushing balls against each other until jamming occurs.
   e. Slowly rotate screw and observe that balls continue in the same direction. Alternately pushing balls in, and slightly rotating screw will fill ball screw and nut with balls.
   f. Balls can be held in place with small rod if direction of ball screw must be reversed. BALLS MUST BE PLACED ONTO THREAD OF BALL SCREW IN ONLY ONE DIRECTION. If balls move onto the ball screw in the wrong direction, disassemble components and start again with paragraph 1.c.
   g. Filling ball screw and nut threads will allow balls to be evenly visible in both holes. Place assembled split tube in nut.
   h. Attach tube retainer with screws. Tape ball screw threads on both sides of ball screw nut to restrain ball nut on ball screw.

2. Slip O-ring (15) into groove of Bearing Housing (13).

3. Place two Thrust Bushings (6) into bottom of bearing housing.

4. Hold bearing housing upright. Lower assembled housing and bearings over ball screw spindle.

5. Part number of Ball Screw Spindle Nut (10) must face outward from housing. Lower nut into housing and against ball screw spindle. Hold housing and nut together, and screw nut onto spindle. Line up holes in nut, spindle and housing.

6. Using vise, as in 8, press Spring Pin (11) into nut and spindle. Use drift pin to press spring pin completely into nut until housing rotates freely. Remove tape from ball screw between housing and ball nut.

7. Drop Pintail Ejector (7) into Adapter Spindle (12). Slide Spring (8) behind ejector. Place thrust bearing against nut in housing.

8. Screw assembled adapter spindle into housing. Line up counterbored hole of housing with blind hole in threads of adapter spindle.

9. Place Lock Button (14) thru housing, and into adapter spindle. Push assembled sub-assemblies into Housing (4). Tap end of ball screw to force O-ring past housing threads.

10. Fasten Handle (5) to housing. Use handle or vise to hold housing. Place Spanner Wrench, part number 100560, over ball nut, and tighten.

11. Remove retaining tape from ball screw. Place Housing Cover Plate (16) over ball screw and next to ball nut. Install Retaining Ring (17) using Truarc Pliers No. 0500.

12. Place Spindle Stop (18) over ball screw. Install Retaining Ring (19), using Truarc Pliers No. 0200.

13. Slide Nose Adapter (3) into housing. Place Nose Retaining Washer (2) over adapter. Screw Nose Retaining Nut (1) onto housing.
### Table 3 - PARTS LIST

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>NO. REQ.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>101490</td>
<td>1</td>
<td>Nut-Nose Retaining</td>
</tr>
<tr>
<td>2</td>
<td>101492</td>
<td>1</td>
<td>Washer-Nose Retaining</td>
</tr>
<tr>
<td>3</td>
<td>101493</td>
<td>1</td>
<td>Adapter-Nose</td>
</tr>
<tr>
<td>4</td>
<td>101491</td>
<td>1</td>
<td>Housing</td>
</tr>
<tr>
<td>5</td>
<td>100007</td>
<td>1</td>
<td>Handle Assembly (includes Grip)</td>
</tr>
<tr>
<td></td>
<td>101797</td>
<td>1</td>
<td>Grip-Handle</td>
</tr>
<tr>
<td>6</td>
<td>101615</td>
<td>3</td>
<td>Bearing-Thrust (3)</td>
</tr>
<tr>
<td>7</td>
<td>101624</td>
<td>1</td>
<td>Ejector-Pintail</td>
</tr>
<tr>
<td>8</td>
<td>100846</td>
<td>1</td>
<td>Spring</td>
</tr>
<tr>
<td></td>
<td>101759</td>
<td>1</td>
<td>Screw, Nut &amp; Pin Assembly (incl. 9 thru 14)</td>
</tr>
<tr>
<td></td>
<td>502506</td>
<td>80-85</td>
<td>Ball-Steel—.156 dia.</td>
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<table>
<thead>
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<th>PART NO.</th>
<th>NO. REQ.</th>
<th>DESCRIPTION</th>
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<tr>
<td>10</td>
<td>----</td>
<td>1</td>
<td>Nut-Screw Spindle</td>
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<tr>
<td>11</td>
<td>500646</td>
<td>1</td>
<td>Pin-Spring—.187 dia. x 1-1/8</td>
</tr>
<tr>
<td></td>
<td>101760</td>
<td>1</td>
<td>Bearing Housing Assembly (incl. 12,13,14)</td>
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<tr>
<td>12</td>
<td>----</td>
<td>1</td>
<td>Adapter-Spindle</td>
</tr>
<tr>
<td>13</td>
<td>----</td>
<td>1</td>
<td>Housing-Bearing</td>
</tr>
<tr>
<td>14</td>
<td>101625</td>
<td>1</td>
<td>Button-Lock</td>
</tr>
<tr>
<td>15</td>
<td>500599</td>
<td>1</td>
<td>O-ring—AS 568-218 Buna N-70 durometer</td>
</tr>
<tr>
<td>16</td>
<td>100004</td>
<td>1</td>
<td>Plate-Housing Cover</td>
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<tr>
<td>17</td>
<td>500598</td>
<td>1</td>
<td>Retaining Ring—Truarc N5000-231</td>
</tr>
<tr>
<td>18</td>
<td>100013</td>
<td>1</td>
<td>Stop-Spindle</td>
</tr>
<tr>
<td>19</td>
<td>500596</td>
<td>1</td>
<td>Retaining Ring—Truarc 5100-75</td>
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</table>

(1) Bore .754—.758; O.D. 1.248—1.250; Width .4325—.4425

**NOTE**

All part number shown are available from Huck. However, 500000 series part numbers are standard parts which generally can be purchased locally.
**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 shall 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 limited, 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, MERCHANTABILITY OR FITNESS FOR USE OF ANY TOOL, PART(S), OR OTHER ITEMS THEREOF NOT MANUFACTURED BY HUCK. HUCK SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF SUCH TOOLING, PART(S) OR OTHER ITEMS OR BREACH OF WARRANTY OR FOR ANY CLAIM FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

The only warranties made with respect to such tool, part(s) or other items thereof are those made by the manufacturer thereof and Huck agrees to cooperate with Buyer in enforcing such warranties when such action is necessary.

Huck shall not be liable for any loss or damage resulting from delays or nonfulfillment of orders owing to strikes, fires, accidents, transportation companies or for any reason or reasons beyond the control of the Huck or its suppliers.

**Huck Installation Equipment**

Huck International, Inc. reserves the right to make changes in specifications and design and to discontinue models without notice.

Huck Installation Equipment should be serviced by trained service technicians only.

Always give the Serial Number of the equipment when corresponding or ordering service parts.

Complete repair facilities are maintained by Huck International, Inc. Please contact one of the offices listed below.

**Eastern**
One Corporate Drive Kingston, New York 12401-0250
Telephone (845) 331-7300 FAX (845) 334-7333

**Canada**
6150 Kennedy Road Unit 10, Mississauga, Ontario, L5T2J4, Canada.
Telephone (905) 564-4825 FAX (905) 564-1963

**Outside USA and Canada**
Contact your nearest Huck International Office, see back cover.

In addition to the above repair facilities, there are Authorized Tool Service Centers (ATSC's) located throughout the United States. These service centers offer repair services, spare parts, Service Parts Kits, Service Tools Kits and Nose Assemblies. Please contact your Huck Representative or the nearest Huck office listed on the back cover for the ATSC in your area.
A Global Organization

Alcoa Fastening Systems (AFS) maintains company offices throughout the United States and Canada, with subsidiary offices in many other countries. Authorized AFS distributors are also located in many of the world’s industrial and Aerospace centers, where they provide a ready source of AFS fasteners, installation tools, tool parts, and application assistance.

Alcoa Fastening Systems world-wide locations:

**Americas**

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FAX: 520-748-2142

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310-830-8200
FAX: 310-830-1436

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FAX: 905-564-1963

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FAX: 254-751-5259

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C.P. 11850
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FAX: 0952-290459

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FAX: 33-1-34-66-0600


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