

# HAYES-TOOL

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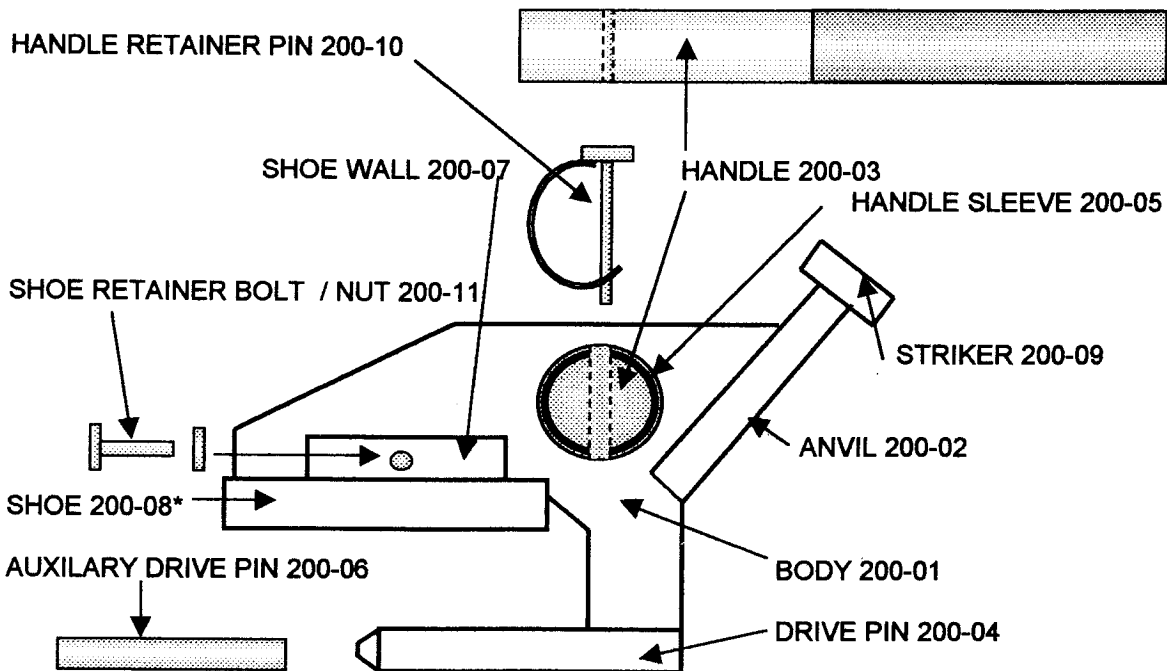
PIN REMOVAL & PLACEMENT TOOL FOR CONSTRUCTION EXCAVATION BUCKET TEETH

**MODEL 200**

## Assembly & Operating Instructions

<b>WARNING!</b>
<p>Retainer pins, when struck with tool can project out with force and cause injury to you or nearby people.</p> <p>Make sure area is clear of people when driving retainer pins.</p> <p>To avoid injury to your eyes, wear safety glasses when striking retainer pins.</p>

<b>WARNING!</b>
<p>Personal injury or death can result from bucket movement or fall while performing maintenance on bucket teeth.</p> <p>Block or secure bucket before removing or installing bucket teeth or cutters.</p> <p>Refer to your equipments operators manual for blocking instructions.</p>



**ACCESSORIES:**

- \*SHOE TYPES: 1/4" 200-08A, 3/8" 200-08B, 1/2" 200-08C, 3/4" 200-08D
- SAFETY GLASSES 200-20
- WIRE BRUSH 200-21

**FIGURE 1 - TOOL DESCRIPTION**  
(NOT TO SCALE)

## **HAYES-TOOL**

### **Assembly & Operating Instructions - MODEL 200**

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#### **SAFETY FIRST**

- Read and understand all instructions and warnings carefully before attempting assembly or use of the HAYES-TOOL.
  - Note important warnings on FIGURE 1 - TOOL DESCRIPTION
  - Refer to FIGURE 1 while reading Assembly & Operating instructions.
  - Wear eye protection at all times during tool assembly, use of tool and disassembly.
  - Wear adequate hand protection as needed or required.
  - Before assembly and use, carefully inspect all tool components and accessories for damage, cracks or missing parts. Do not use the tool if incomplete and / or defective.
  - Do not modify the HAYES-TOOL components or accessories. For special applications or problems with the tool contact us.
  - Properly store the tool and accessories in the case provided when not in use.
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#### **Assembly of the HAYES-TOOL**

1. Install HANDLE 200-03 into HANDLE SLEEVE 200-05 and secure with HANDLE RETAINER PIN 200-10. Note that the HANDLE can be reversed for right or left hand use.
  2. Holding HANDLE 200-03, place tool on the tooth with the SHOE area resting flat on the top of the tooth to be removed. Check alignment of DRIVE PIN 200-04 to the retainer pin to be removed. The DRIVE PIN 200-04 must line up directly with the retainer pin. If it does not, select the appropriate SHOE 200-8\* to adjust alignment of DRIVE PIN 200-04 with the tooth retainer pin to be removed.
  3. Install the proper SHOE 200-08\* and secure with RETAINER SHOE BOLT / NUT 200-11.
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#### **Using the HAYES-TOOL**

##### **General Recommendations:**

- A four (4) to six (6) pound hand held sledgehammer is recommended for striking the tool.
- Retainer pins must be removed from the retainer washer side of the tooth.
- Retainer pins must be reinstalled from the side opposite the retainer washer.
- Use AUXILARY DRIVE PIN 200-06 if needed to extend the reach of the DRIVE PIN 200-04. To use, place AUXILARY DRIVE PIN 200-06 in the retainer pin hole behind the retainer pin, strike it with DRIVE PIN 200-04.
- Clean all surfaces and parts before reinstalling tooth, retainer pin and washer.
- If the retainer pin is welded in place or damaged beyond removal use alternate methods of extraction to prevent possible personal injury or damaging the tool.

##### **Removing a bucket tooth retainer pin:**

1. Align DRIVE PIN 200-04 with retainer pin on the retainer washer end, grip HANDLE 200-03 with one hand and hit STRIKER 200-09 firmly with a 4 to 6 pound sledgehammer with your other hand. The retainer pin should fly free with one to three firm blows.
2. Some pins that are stuck may take multiple hits to free.
3. If the retainer pin is welded in place or damaged beyond removal revert to alternate means of extraction to prevent personal injury or damage to the tool.

##### **Installing a bucket tooth retainer pin:**

1. Clean retainer pinholes and washer seats thoroughly before reinstalling retainer pins. Wire brush supplied or other appropriate cleaning tool may be used.
2. Replace tooth on shank and slide retainer pin in from end opposite the retainer washer up to the washer.
3. Grip HANDLE 200-03 with one hand and align DRIVE PIN 200-04 on the retainer pin to be reseated, hit STRIKER 200-09 firmly with 4 to 6 pound sledgehammer with you other hand. The retainer pin should seat in retainer washer with one to three firm blows.

<p>MANUFACTURED BY <b>HAYES-TOOL, LLC, PO BOX 581, SIMSBURY, CT 06070-0581</b> 860 658-3681 hayes-tool.com</p>
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