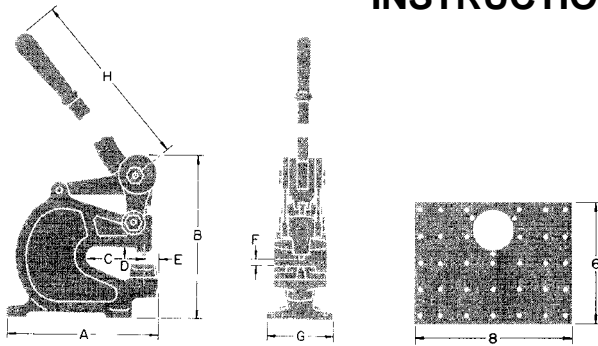


NO. 16 & NO. 17 BENCH PUNCH INSTRUCTIONS AND PARTS LIST



No. 16



No. 17

| DIMENSIONS: NO. 16 | | | NO. 17 | |
|--------------------|--------|--------|---------|--------|
| Reference | IN. | MM | IN. | MM |
| A | 8 7/16 | 214.31 | 12 3/8 | 314.33 |
| B | 9 5/8 | 244.48 | 10 9/16 | 268.29 |
| C | 3 1/4 | 82.55 | 6 1/2 | 165.1 |
| D | 1 3/4 | 44.45 | 2 1/8 | 53.98 |
| E | 7/8 | 22.23 | 7/8 | 22.23 |
| F | 3/8 | 9.53 | 3/8 | 9.53 |
| G | 3 7/8 | 98.43 | 4 1/2 | 114.3 |
| H | 24 1/2 | 622.3 | 24 1/2 | 622.3 |

CARE: Oil at hinge points, the punch guide hole in the frame, and the punch point. No other care is necessary.

OPERATION: To change punches, remove the lever handle screw (11) and pull lever handle assembly back to release punch from eccentric arm slot. Lift punch from guide hole. Put new punch in guide hole and move eccentric arm forward until punch slot is engaged in eccentric arm, then replace lever handle screw.

TO CHANGE DIES: Loosen die shoe set screw (12). Remove one die shoe bolt (14) and pivot die shoe toward operator. Push upon die. Insert new die and die shoe bolt. Tighten die shoe set screw. Lower punch into die, check clearance and tighten both die shoe bolts.

FOR MAXIMUM OPERATOR SAFETY DO:

1. Read and understand this manual.
2. Use only No. 16 punches for the No. 16 and No. 17 punches for the No. 17 and No. 20 dies marked with a W or R-W designed for this tool.
3. Be sure you punch within the 7 ton capacity for No. 16 or 5 ton for No. 17. Type and thickness of material versus final hole size will give you this tonnage.
4. Wear safety glasses.

FOR MAXIMUM OPERATOR SAFETY DO NOT:

1. Use punches and dies that are chipped or dulled.
2. Punch over capacity of the tool.
3. Nibble. Punch a full hole not a half hole as punch may contact die.

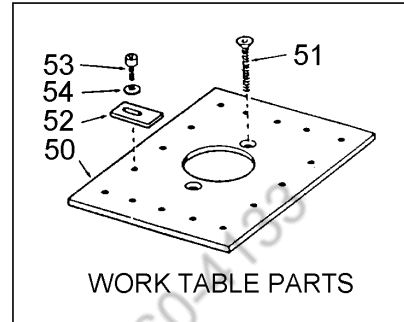
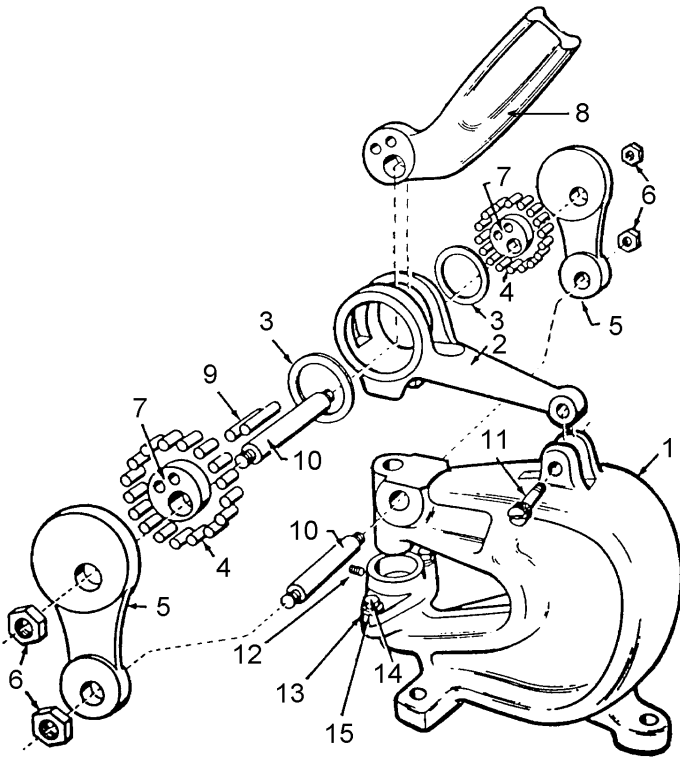


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NO. 16 & NO. 17 BENCH PUNCH INSTRUCTIONS AND PARTS LIST



| ITEM NO. | PART NO. | PART NAME | QTY. |
|----------|-----------|---|------|
| 1 | 731140001 | Frame #16 | 1 |
| 1 | 731140008 | Frame #17 | 1 |
| 2 | 731030003 | Eccentric Arm | 1 |
| 3 | 730260058 | Roller Retainer | 2 |
| 4 | 600255201 | Roller Bearing | 34 |
| 5 | 730240054 | Side Link | 2 |
| 6 | 730560055 | Side Link Bolt Nut | 4 |
| 7 | 730210057 | Eccentric Cam | 2 |
| 8 | 731460002 | Lever Handle | 1 |
| 9 | 600053332 | Cam Pin | 2 |
| 10 | 730160052 | Side Link Bolt | 2 |
| 11 | 730650053 | Lever Handle Screw | 1 |
| 12 | 621012082 | Die Set Screw, 1/4-20 x 1/4 | 1 |
| 13 | 731320004 | Die Shoe | 1 |
| 14 | 601012132 | Die Shoe Bolt, 5/16-18 x 7/8 | 2 |
| 15 | 678033104 | Die Shoe Bolt Washer | 2 |
| 50 | 731060006 | Work Table Plate | 1 |
| 51 | 605012137 | Work Table Set Screw, 5/16-18 x 1 1/2 | 2 |
| 52 | 774420101 | Work Table Gauge | 3 |
| 53 | 611012086 | Work Table Gauge Screw, 1/4-20 x 1/2 | 3 |
| 54 | 678033103 | Work Table Gauge Washer | 3 |
| 55 | 600366507 | Work Table Gauge Wrench, 3/16 Hex (Not Shown) | 1 |