Delta 16 1/2” Drill Press

<table>
<thead>
<tr>
<th>Description</th>
<th>Drill Press – Model 17-900</th>
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<tbody>
<tr>
<td>Size / Horse power</td>
<td>16 1/2” / 3/4 HP / 250 - 3000 RPM</td>
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<tr>
<td>Power source</td>
<td>115 volt through power cord</td>
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<tr>
<td>Uses</td>
<td>Drilling/Boring holes into various material (metal, wood, plexiglas, plastic)</td>
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</tbody>
</table>

**Safety Precautions**

**Hazards**
- Flying debris (potential eye damage)
- Electrical shock
- Abrasions
- Entanglement of hair or clothing

**Training**
- Shop Safety Fundamentals
- Site Specific Training

**Protective Equipment**
- Safety glasses
- Hearing protection
- Avoid loose fitting clothing
- Tie back long hair

**Operation**

**Startup**
1. Put on PPE listed above
2. Ensure work area is clean and free of obstacles
3. Make necessary adjustments for safe operation
4. Inspect the tool for damage or obstructions to operation
5. Place material so that it is resting against the left side of the column to prevent material from spinning or securely fasten material to the table
6. Make sure the drill chuck is tightened down on the drill bit and the chuck key has been removed
7. Turn on the drill press by moving the switch to the “UP” position
8. Begin work
9. Slowly feed drill bit towards material, avoid feeding material too quickly or too slowly
10. Keep hands clear of drill bits

**Shutdown**
1. Turn off the drill press by moving the switch to the “DOWN” position
2. Allow the chuck to come to a complete stop on its own
3. Remove work piece for table top

Note: The switch can be locked in the “OFF” position by pulling out the switch toggle (A)

**Table Adjustments**

**Raise and Lower:**
1. Loosen the table clamp handle (K)
2. Turn the table elevating handle (J) to raise or lower the table along column rack
3. Re-tighten table clamp handle (K) before attempting to drill
Tilt Table:
1. Pull out and remove table alignment pin (B), if pin is difficult to remove, turn nut (C) clockwise to pull pin out of casting
2. Loosen table locking bolt (D), then tilt table to desired angle
3. Tighten locking bolt (D)
4. When returning the table to 90°, replace the alignment pin

Depth Stop Adjustment
1. Loosen lock screw (A)
2. Rotate housing (B) until the pointer (C) lines up with the desired depth indicated on scale (D)
3. Tighten lock screw (A)
4. All holes will be drilled to the depth indicated on the scale

Changing Spindle Speeds – Performed By Authorized Personnel ONLY
1. Disconnect the drill press from the power source
2. Raise the belt and pulley guard (A)
3. Release tension on the belt by loosening lock knob (B), the tension knob located on the other side of the head casting and move the tension lever (C) forward
4. Position both belts (D) on the desired steps of the spindle, center, and motor pulleys. Refer to the chart (E) for belt position and speed charts
5. After the belts are positioned, move tension lever (C) to the rear until the belts are properly tensioned and tighten the two tension lock knobs (B)

Maintenance

<table>
<thead>
<tr>
<th>Storage</th>
<th>Food Science – Room 1857</th>
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<tbody>
<tr>
<td>Care</td>
<td>• Clean off drill press after you are done using</td>
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<tr>
<td></td>
<td>• Periodically apply a light film of oil to the quill and column. This will reduce wear, prevent rust, and assure ease of operation</td>
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<td></td>
<td>• Check that bolts are tight and electrical cords are in good condition</td>
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Accessories