Powermatic 18” Drill Press

<table>
<thead>
<tr>
<th>Description</th>
<th>Powermatic 18” Drill Press – Model PM2800B</th>
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<tbody>
<tr>
<td>Size / Horse power</td>
<td>18” / 1 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>
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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 pulling out on the large red switch
8. Begin work
9. Slowly feed drill bit towards material, avoid feeding material too quickly or to slowly
10. Keep hands clear of drill bits

**Shutdown**
1. Turn off the drill press by pushing in the large red switch
2. Allow the chuck to come to a complete stop on its own
3. Remove work piece for table top

**Table Adjustments**

**Raise and Lower:**
1. Loosen column locking handle (A)
2. Turn the table elevating handle (B) to raise or lower the table along column rack (C)
3. Re-tighten locking handle (A) before attempting to drill
Tilt Table:
1. Slightly loosen the bolt under the table (D) and loosen the handle (E)
2. Pivot table to desired angle by aligning the scale on the table to the line on the indicator plate
3. Re-tighten bolt (D) and handle (E)

Depth Stop Adjustment
1. Measure the distance from the tip of the drill bit to the workpiece. Add to this the desired depth of the hole in the workpiece
2. Position top nut (F1) so that its bottom edge aligns with this measurement on the scale
3. Position the lower nut (F2) up against the collar. The spindle will stop at this position when the downfeed handle is released

Changing Spindle Speeds
1. With the drill press running, rotate handwheel until desired speed is displayed on LED readout
2. Rotate handwheel clockwise to increase speed and counterclockwise to decrease speed
3. Speed range is 250 to 3000 RPM

Maintenance
<table>
<thead>
<tr>
<th>Storage</th>
<th>Armory – Room 0062</th>
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| Care             | • Clean off drill press after you are done using  
|                  | • Periodically apply a light film of oil to the quill and column. This will reduce wear, prevent rust, and assure ease of operation  
|                  | • Check that bolts are tight and electrical cords are in good condition |
| Accessories      |                     |