Delta 12” Bench Drill Press

<table>
<thead>
<tr>
<th>Description</th>
<th>Bench Drill Press – Model DP300L</th>
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<tbody>
<tr>
<td>Size / Horse power</td>
<td>12” / 1/3 HP / 620 - 3100 RPM</td>
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<tr>
<td>Power source</td>
<td>115 volt through power cord</td>
</tr>
<tr>
<td>Uses</td>
<td>Drilling/Boring holes into various material (metal, wood, plexiglas, plastic)</td>
</tr>
</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 to 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 from table top

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

#### Table Adjustments

##### Table Tilt:
1. Pull out and remove table alignment pin (C), if pin is difficult to remove, turn nut (E) clockwise to pull pin out of casting
2. Loosen table locking bolt (D), then tilt table to desired angle
3. Tighten locking bolt (D). When returning the table to 90°, replace the alignment pin

H:\H&S\Shop Safety\Equipment Data Sheets\Shop Equipment Data Sheet - Delta Bench Drill Press.doc
Raise and Lower:
1. Loosen the table clamp handle (A)
2. Turn the table elevating handle (B) to raise or lower the table along column rack
3. Re-tighten table clamp handle (A) before attempting to drill

![Image of Delta Bench Drill Press](image1.png)

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

![Image of Delta Bench Drill Press](image2.png)

Changing Spindle Speeds – Performed by Authorized Personnel ONLY
1. Disconnect the drill press from the power source
2. Open the top cover (A)
3. Release tension on the belt by loosening lock knob (B), pivot the motor (D) toward the front of the drill press
4. Hold the motor in this position and place the belt (C) on your selected speeds according to the chart
5. Move the motor to the rear until the belt has proper tension. Correct tension is obtained when the belt (C) can be flexed about 1” out of line midway between the pulleys using light finger pressure.
6. Tighten the tension lock knob (B)

![Image of Delta Bench Drill Press](image3.png)

Maintenence

<table>
<thead>
<tr>
<th>Storage</th>
<th>Molecular Biology – Room 0213K</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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<tr>
<td></td>
<td>• Check that bolts are tight and electrical cords are in good condition</td>
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<tr>
<td>Accessories</td>
<td>Key Chuck</td>
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