EXPLODED VIEW

EGR100 Hammer Screwdriver Project

Hammer Assembly

SolidWorks Educational Edition. For Instructional Use Only.
Operations List

1. Trak CNC Lathe  
   Turn radiuses, Cutoff  
   Program 810

2. Trak CNC Lathe  
   Face Cleanup, Drill  
   DRO

3. Sherline CNC Mill  
   Mill Flutes

Prog 810 notes

Hammer Handle

SolidWorks Educational Edition.  
For Instructional Use Only.
OPERATIONS LIST

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Saw</td>
</tr>
<tr>
<td>2</td>
<td>Trak CNC Lathe</td>
</tr>
<tr>
<td>3</td>
<td>Trak CNC Lathe</td>
</tr>
<tr>
<td>4</td>
<td>Wire brush wheel</td>
</tr>
</tbody>
</table>

**Prog 711 notes**

- Chamfer 60 deg X.040
- 7/16-20 UNF Thread
- .062 Groove .360 Dia
- .062 Groove .360 Dia (To Aid Milling)

**CNC turned shaft**

**SolidWorks Educational Edition. For Instructional Use Only.**
<table>
<thead>
<tr>
<th>OPERATIONS LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Emery cloth</td>
</tr>
<tr>
<td>Polish shaft</td>
</tr>
<tr>
<td>2 Bridgeport Mill</td>
</tr>
<tr>
<td>Mill .250 square flats</td>
</tr>
<tr>
<td>3 Trak Mill</td>
</tr>
<tr>
<td>Machine blade shape/trim end/Engrave</td>
</tr>
<tr>
<td>4 Torch/casenite</td>
</tr>
<tr>
<td>Heat treat and temper blade</td>
</tr>
<tr>
<td>5 Emery cloth</td>
</tr>
<tr>
<td>Polish blade faces</td>
</tr>
</tbody>
</table>

**Finished Blade Shaft**

**SolidWorks Educational Edition.**
*For Instructional Use Only.*
OPERATIONS LIST

1. Saw
   Cut stock to 4-1/8 inch length

2. Engine Lathe
   Face end/Countersink

3. Engine Lathe
   Drill

4. Engine Lathe
   Tap (Use tap guide, tailstock)

5. Engine Lathe
   Turn Diameter

---

**SolidWorks Educational Edition. For Instructional Use Only.**
## Operations List

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Saw</td>
</tr>
<tr>
<td>2</td>
<td>Engine Lathe</td>
</tr>
<tr>
<td>2</td>
<td>Engine Lathe</td>
</tr>
<tr>
<td>3</td>
<td>Engine Lathe</td>
</tr>
<tr>
<td>4</td>
<td>Engine Lathe</td>
</tr>
<tr>
<td>4</td>
<td>Engine Lathe</td>
</tr>
<tr>
<td>6</td>
<td>Bridgeport</td>
</tr>
</tbody>
</table>

### Drawing Details
- **Material**: Plain Carbon Steel
- **Finish**: Remove all sharp edges and burrs
- **Scale**: 1:1
- **Weight**: 
- **Sheet**: 6 of 7
- **Part**: A
- **Part Rev**: 5
- **Doc Rev**: 

---

**Hammer Head**

- **Size**: A
- **Part**: 
- **Part Rev**: 
- **Doc Rev**: 5

---

**SolidWorks Educational Edition. For Instructional Use Only.**

---

**UNLESS OTHERWISE SPECIFIED:**

- Dimensions are in inches
- Tolerances:
  - Fractional ± 1/32
  - Angular: Mach ± 0.5° Bend ± 0.01
  - Two place decimal ± 0.005
  - Three place decimal ± 0.0005

**Interpret Drawing Per:** ASME Y14.5-1994

**Comments:**
1/4-20 Tapped Hole
Drill .201 DIA .38 DEEP

1/32 CHAMFER

R3.000

.700

1.000

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/32"
ANGULAR: MACH ± .5 BEND ± .01
TWO PLACE DECIMAL ± .05
THREE PLACE DECIMAL ± .005

INTERPRET DRAWING PER: ASME Y14.5-1994

MATERIAL
ABS Plastic

FINISH

REMOVER ALL SHARP EDGES AND BURRS

SolidWorks Educational Edition.
For Instructional Use Only.