<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>QTY.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>BH-001</td>
<td>Boring head body</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>BH-002</td>
<td>slide</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>BH-003</td>
<td>Gib</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>BH-004</td>
<td>Nut</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>BH-005</td>
<td>Dial</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>BH-006</td>
<td>HX-SHCS 0.138-40x1.25x1.25-N</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>BH-007</td>
<td>Dial Retainer</td>
</tr>
<tr>
<td>8</td>
<td>3</td>
<td>BH-008</td>
<td>SSCUPSKT 0.164-32x0.1875-HX-N</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>BH-009</td>
<td>SSCUPSKT 0.138-32x0.25-HX-N</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>BH-010</td>
<td>HX-SHCS 0.112-40x0.25x0.25-N</td>
</tr>
</tbody>
</table>

**Boring Head Exploded View**

**Title:** Boring Head Exploded View

**Drawing Number:** 1210-001

**Scale:** 1:1

**Proprietary and Confidential**

The information contained in this drawing is the sole property of Stephen Campbell. Reproduction in part or as a whole is permitted so long as it is not used commercially or for profit. To do so is prohibited.
**Detail B**

Scale 1.5 : 1

- **#6-32 Tapped Hole**
  - For 4-40 SHCS
  - Drill & C'bore

- **Drill & C'bore For 4-40 SHCS**
  - #29 Hole
  - \( \phi .250 \)
  - 1.416 Deep
  - 3/4-16 or 22x1.5mm Tapped Hole
  - .563 Deep

- **3/4-16 or 22x1.5mm Tapped Hole**
  - .563 Deep

- **SECTION A-A**
  - .563
  - .252
  - .200
  - .143
  - .030

**UNLESS OTHERWISE SPECIFIED:**

- **DIMENSIONS ARE IN INCHES**
- **TOLERANCES:**
  - FRACTIONAL
  - ANGULAR: MACH\( \pm \)
  - BEND\( \pm \)
  - TWO PLACE DECIMAL\( \pm \)
  - THREE PLACE DECIMAL\( \pm \)

**INTERPRET GEOMETRIC TOLERANCING PER:**

- **MATERIAL:** 12L14
- **FINISH**
- **APPLICATION**

**DO NOT SCALE DRAWING**

**TITLE:** Boring Head Body

**SIZE:** A

**DWG. NO.:** 1210-001

**REV:** A

**SCALE:** 1:1

**UNLESS OTHERWISE SPECIFIED:**

- **NAME:**
  - DATE: 11/19/07

**PROPRIETARY AND CONFIDENTIAL**

The information contained in this drawing is the sole property of Stephen Campbell. Reproduction in part or as a whole is permitted so long it is not used commercially or for profit. To do so is prohibited.

**CHECKED**

**ENG APPR.**

**MFG APPR.**

**Q.A.**

**COMMENTS:**

**FINAL APPLICATION**

**USED ON:**

**DO NOT SCALE DRAWING**

**APPROVED:**
NOTE: For max depth cut holes w/.25" end mill then ream to .375"

SECTION C-C

#8-32 Tapped Hole

Slide

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL
ANGULAR: MACH 1 BEND 1
TWO PLACE DECIMAL 1
THREE PLACE DECIMAL 1

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
12L14

NEXT ASSY
USED ON
FINISH
APPLICATION
DO NOT SCALE DRAWING

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STEPHEN CAMPBELL. REPRODUCTION IN PART OR AS A WHOLE IS PERMITTED SO LONG IT IS NOT USED COMMERCIALLY OR FOR PROFIT. TO DO SO IS PROHIBITED.
<table>
<thead>
<tr>
<th>UNLESS OTHERWISE SPECIFIED</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMENSIONS ARE IN INCHES</td>
<td>SCC</td>
<td>11/19/07</td>
</tr>
<tr>
<td>TOLERANCES:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRACTIONAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANGULAR: MACH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BEND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWO PLACE DECIMAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THREE PLACE DECIMAL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| INTERPRET GEOMETRIC | TITLE: |
| TOLERANCING PER: | Gib |
| MATERIAL: | Brass |
| APPLICATION | | |
| NEXT ASSY | | |
| FINISH | | |
| USED ON | | |
| DO NOT SCALE DRAWING | | |
| DRAWN | | |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |

**PROPRIETARY AND CONFIDENTIAL**

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STEPHEN CAMPBELL. REPRODUCTION IN PART OR AS A WHOLE IS PERMITTED SO LONG IT IS NOT USED COMMERCIALY OR FOR PROFIT. TO DO SO IS PROHIBITED.
#6-40 Tapped Hole C'bore #29 Drill This Side

### Dimensions
- .094 X 45.00°
- .063 X 45.00°
- .435
- .438
- .188
- .250
- .160
- .125
- .160

### Material
Brass

### Title
Nut

**Notes:**
- Unless otherwise specified, dimensions are in inches.
- Tolerances: Fractional, Angular: Mach, Bend, Two Place Decimal ±, Three Place Decimal ±.

**Interpret Geometric Tolerancing:**

**Material:** Brass

**Next Assy:** Used On

**Finish:**

**Application:** Do Not Scale Drawing

**Drawing Information:**
- Scale: 2:1
- Weight:
- SHEET 5 OF 7

**Drawing Details:**
- DRAWN: SCC 11/19/07
- CHECKED
- ENG APPR.
- MFG APPR.
- Q.A.
- COMMENTS:

**Proprietary and Confidential:**

The information contained in this drawing is the sole property of Stephen Campbell. Reproduction in part or as a whole is permitted so long it is not used commercially or for profit. To do so is prohibited.
Engrave Dial w/25 Divisions
Silver Solder to Modified Screw

Make From 6-40 UNF x 1.25 SHCS

R.245

.221

15.00°

.205

.061

.023

.126

.080

Screw & Dial

Dial 12L14

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL
ANGULAR: MACH↑, BEND ↓
TWO PLACE DECIMAL =
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
FINISH

APPLICATION

DO NOT SCALE DRAWING

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF STEPHEN CAMPBELL. REPRODUCTION IN PART OR AS A WHOLE IS PERMITTED SO LONG IT IS NOT USED COMMERCIALLY OR FOR PROFIT. TO DO SO IS PROHIBITED.
### Dial Retainer

**Dimensions:**
- .375
- .500
- .063
- .041
- .041
- .125
- .160
- .303

**Materials:**
- Brass

**Scale:**
- 2:1

**Notes:**
- Interpretted geometric tolerancing per:
- Dimensions are in inches.
- Tolerances: fractional, angular: mach bend ±, two place decimal, three place decimal:
- Unless otherwise specified:
  - Scale: 2:1
  - Weight:
  - Sheet 7 of 7

**Drawing Information:**
- Drawn: SCC 11/19/07
- Title: Dial Retainer
- DWG. NO.: 1210-001
- REV: A

**Proprietary and Confidential:**
- The information contained in this drawing is the sole property of Stephen Campbell. Reproduction in part or as a whole is permitted so long it is not used commercially for profit.

---

**Table:**

<table>
<thead>
<tr>
<th>ZONE</th>
<th>REV.</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>APPROVED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Legend:**

- UNLESS OTHERWISE SPECIFIED:
- NAME DATE
- COMMENTS:
- Q.A.
- MFG APPR.
- ENG APPR.
- CHECKED
- DRAWN

**Notes:**
- Do not scale drawing.
- Application on next assy.