

NOTES CONTINUED:
 5. VENDOR REFERENCES ARE PROVIDED AS EXAMPLES OF PARTS ALL REQUIRED SPECIFICATIONS. EQUIVALENTS ARE ALWAYS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
 6. REFER TO LIGO DOC T0900592 FOR DETAILED INSTRUCTION OF THE POD ASSEMBLY PROCEDURE, INSTRUCTIONS AND PROCEDURES MUST BE CAREFULLY FOLLOWED. REFER TO LIGO DOC E0900357 FOR THE INSTALLATION PROCEDURE OF THE POD ON THE BSC ISI.
 7. ASSEMBLY TO BE ADJUSTED USING SHIMS IN TABLE 2 MEASURE ASSEMBLY DURING INSTALATION AND SELECT APPROPRIATE SHIM THICKNESS.

| REV. | DATE | DCN # | DRAWING TREE # |
|------|------------|----------|----------------|
| v1 | 6 FEB 2010 | E0900444 | E1000025 |

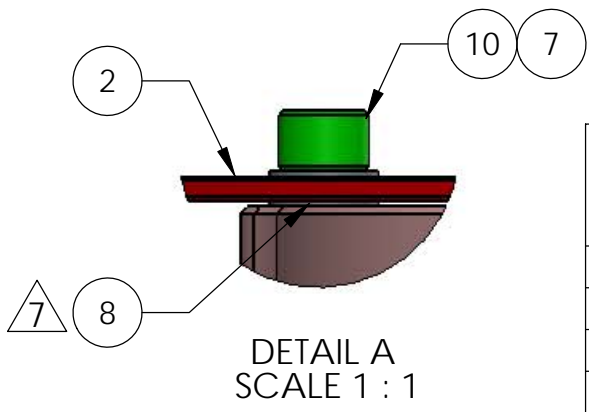
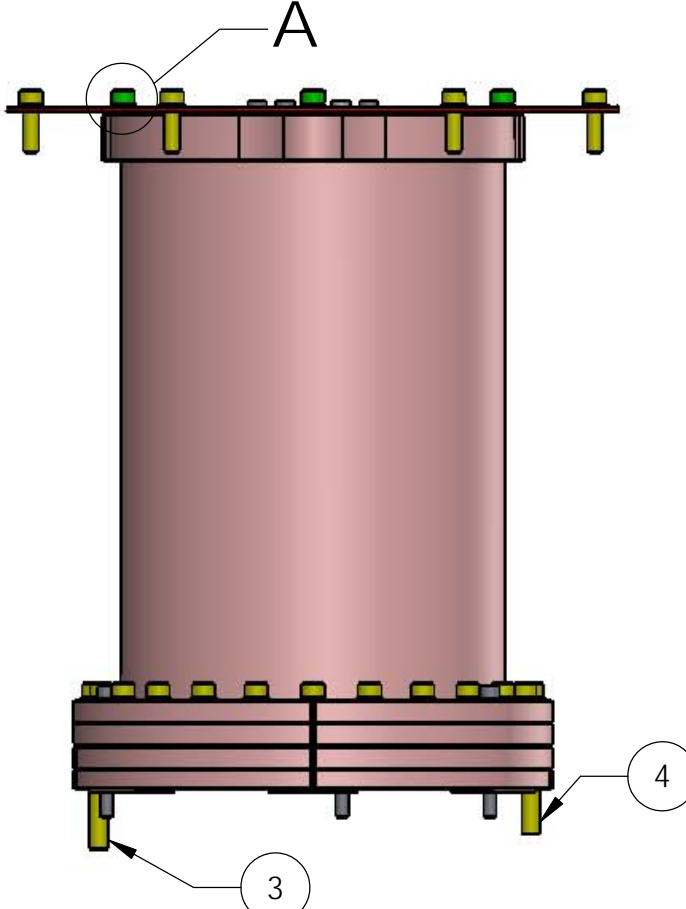
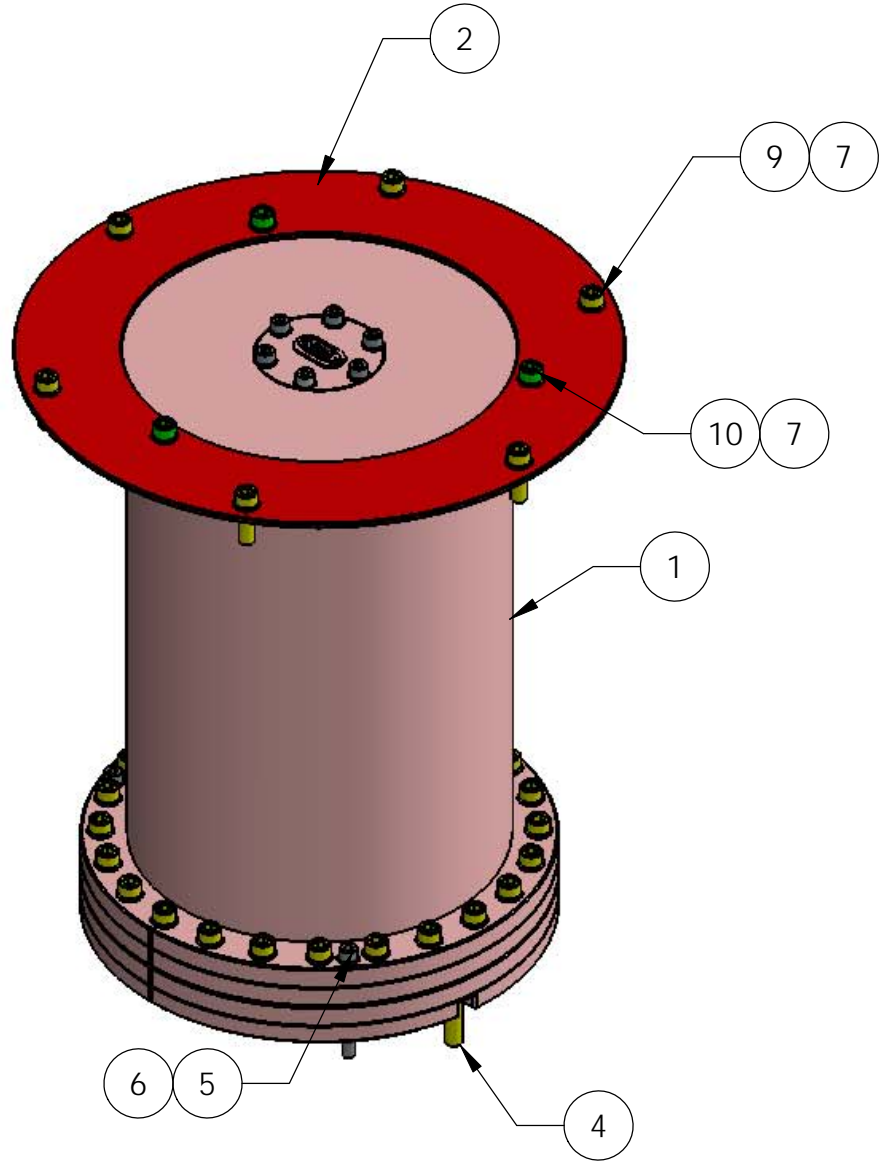


Table 2

| Mc Master P/N (Packs of 50) | Thickness | # of Shims per Pod Assembly |
|-----------------------------|-----------|-----------------------------|
| 99040A702 | 0.002 | 6 |
| 94773A614 | 0.005 | 6 |
| 94773A655 | 0.010 | 3 |
| 94773A688 | 0.016 | 3 |
| 94773A714 | 0.020 | 3 |
| 94773A745 | 0.030 | 3 |



| 10 | U-C Components_C-3116-NA | Screw shcs 5/16-24 UNF-2A X 1" lg Ag plated | Ag-PLATED 300 SSSL | 3 |
|----------|--------------------------|--|----------------------|-----|
| 9 | U-C Components_C-3116-N | Screw shcs 5/16-24 UNF-2A X 1" lg | 18-8 SSSL | 6 |
| 8 | McMaster_Shim Washer | Shim Washer .37 Id. X .56 od See Table for Part Number (as Req.) | 18-8 SSSL | - |
| 7 | UCC_WFV-31 | Vented Washer, 5/16" | 18-8 SSSL | 9 |
| 6 | UCC_WFV-25 | Vented Washer, 1/4" | 18-8 SSSL | 3 |
| 5 | McMaster_92196A332 | Screw SHCS 1/4-28 UNF-2A x 2.5 lg. | 18-8 SSSL | 3 |
| 4 | McMaster_90145A626 | Dowel Pin 3/8" (.3751) +/- .0001" x 1.25" +/- .01" | 18-8 SSSL | 1 |
| 3 | McMaster_90145A630 | Dowel Pin 3/8" (.3751) +/- .0001" x 1.75" +/- .01" | 18-8 SSSL | 1 |
| 2 | D0902541 | Diaphragm, Vert GS-13, BSC ISI | 304, 316 OR 302 SSSL | 1 |
| 1 | D0900857 | GS-13 Pod Assembly | N/A | 1 |
| ITEM NO. | PART NUMBER | DESCRIPTION | MATERIAL | REQ |

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± N/A
 .XXX ± N/A
 ANGULAR ± N/A*

MATERIAL: N/A FINISH: N/A μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM: ADVANCED LIGO SUB-SYSTEM: SEI
 NEXT ASSY: D0901182

PART NAME: GS-13 Pod - Vertical - aLIGO BSC-ISI
 DESIGNER: S.BARNUM 5 FEB 2010 SIZE: B DWG. NO.: D0902777 REV.: v1
 DRAFTER: M.HILLARD 5 FEB 2010
 CHECKER: M.MATICHARD 6 FEB 2010
 APPROVAL: K.MASON 6 FEB 2010 SCALE: 1:4 PROJECTION: 1st Angle SHEET 1 OF 1

D0902777_GS-13 Pod - Vertical - BSC, PART PDM REV: X-010, DRAWING PDM REV: X-005