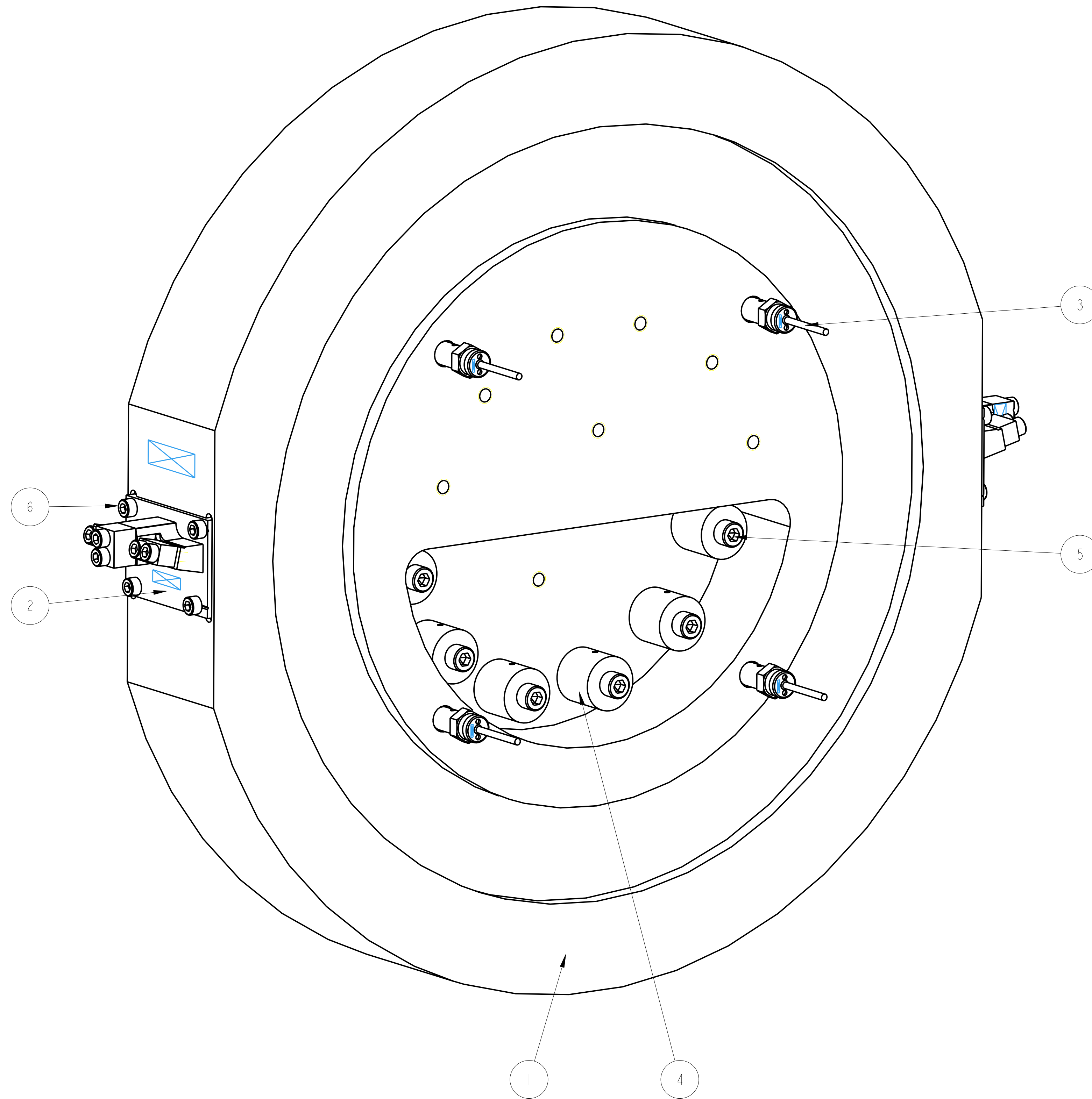


# BS/FM PENULTIMATE MASS



| ITEM | QTY | SPARE | TOTAL | PART NUMBER   | DESCRIPTION                                      | MATERIALS           |
|------|-----|-------|-------|---------------|--|---------------------|
| 1    | 1   |       |       | 0080369       | BS ROUND MASS BODY; BEAMSPLITTER ROUND MASS      | AL ALLOY: 6061/5083 |
| 2    | 2   |       |       | 0080559       | MODIFIED D PENULTIMATE MASS CLAMP; BS ROUND MASS | AS DRW              |
| 3    | 4   |       |       | 01000042      | BS/FM EXTENDED OSEM MAGNET & FLAG ASSY           | AS DRAWING          |
| 4    | 12  |       |       | 0060359-050.0 | ADDITIONAL MASS                                  | ST STEEL: 316       |
| 5    | 12  |       |       |               | 1/4" 20 UNC X 1" CAP HEAD                        |                     |
| 6    | 8   |       |       |               | 8-32 UNC X 0.625" CAP HEAD - VENTED              |                     |

**NOTES: (UNLESS OTHERWISE SPECIFIED)**

- REMOVE ALL SHARP EDGES. R:0.2 MIN.
- DO NOT SCALE FROM DRAWING.
- ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE. SUCH AS CINCINNATI MILACRON'S.
- SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07" HIGH CHARACTERS. EXAMPLE: 0080368-001 - A VIBRATOR TOOL MAY BE USED.

**TOLERANCES:**  
 X XX ± .13  
 ANGULAR ± .

**MATERIAL:** AS DRW

**FINISH:** √μm (μIN) Ra: AS DRW

**DATE:** 01/10/08

**APPROVED:** JOD

**SCALE:** 1:1

**PROJECTION:** 1st Angle

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
 RUTHERFORD APPLTON LABORATORIES

**SYSTEM:** ADVANCED LIGO

**SUB-SYSTEM:** SUS

**NEXT ASSY:** BS TRIPLE

**PART NAME:** BS PENULTIMATE MASS  
**BS TRIPLE**

**DRG. NO.:** 0080368

**SHEET:** 1 OF 1