**DOCUMENT CHANGE NOTICE**

**E1100080-v1 DCN-Various TMS Revisions and Releases**

DOCUMENTS AFFECTED:

[D0902829](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=8095)-v2: aLIGO\_SLEEVE\_ALIGNMENT\_TELESCOPE

[D1000070](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=8453)-v2: TRANSMON\_TELE\_END\_PLATE\_PRIMARY\_3\_TUBE

[D1000071](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=8454)-v3: TRANSMON\_TELE\_END\_PLATE\_ENTRY\_3\_TUBE

[D1000275](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9081)-v2: aLIGO\_TRANSMON\_TELE\_BLACK\_GLASS\_PLATE

# [D1001108](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11500)-v1: aLIGO ETM TELESCOPE TUBE LARGE WASHER

[D1001109](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11501)-v2: aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE

[D1001129](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11595)-v3: aLIGO ETM OPTICAL TABLE

[D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1: aLIGO OPTICS TABLE TOP STRUCTURAL ASSEMBLY

[E1000786](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=26193)-v1: BOM-aLIGO OPTICS TABLE TOP STRUCTURAL ASSEMBLY

[D1001161](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11643)-v2: aLIGO OPTICS TABLE TOP MODIFIED EYEBOLT

[D1001163](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11654&version=2)-v2: aLIGO OPTICS TABLE GUSSET PLATE, LARGE

[D1001164](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11655)-v2: aLIGO OPTICS TABLE GUSSET PLATE, SMALL

[D1002210](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=14602)-v2: aLIGO TMS FLEXABLE SEC MIRROR MT. ASSY

[E1000459](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=21217)-v2: BOM - TMS Telescope Secondary Mirror Mount

[D1002221](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=14634)-v2: aLIGO OPTICS TABLE SPEADER BRIDGE

[D1002696](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22151)-v2: aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE\_Front

[D1002698](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22153)-v2: aLIGO\_TMS\_Telescope\_Roll\_Slide\_Mass

[D1002699](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22154)-v2: aLIGO\_Pitch\_Slide\_Mass

[D1002758](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22467)-v2: aLIGO\_TMS\_Telescope\_Pitch\_Guide

[D1002768](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22486)-v3: aLIGO\_TMS\_Telescope\_Roll\_Mass\_Adj\_Rod

[D1003162](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=26238)-v3: aLIGO TMS TELESCOPE PITCH MASS ADJ. ROD

[D1100358](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=39163)-v1: TMS Telescope Mass Attachment Screw

CHANGE DESCRIPTION (FROM / TO)

[D0902829](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=8095)-v2 aLIGO\_SLEEVE\_ALIGNMENT\_TELESCOPE

Contained in assemblies: [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1, [D0901880](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=4854)-v1

1. AT ZONE A3 & A4:

Added cut feature to flange, centered with 1 of 3 tapped holes.

Reason for change:

To eliminate interference in higher assembly [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1.

CHANGE DESCRIPTION (FROM / TO) continued

[D1000070](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=8453)-v2 TRANSMON\_TELE\_END\_PLATE\_PRIMARY\_3\_TUBE

Contained in assemblies: [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1, [D0901880](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=4854)-v1

1. ON SHEETS 5-7:

Added .020" deep pocket features per DETAILS E & F. Features include added areas of .0003" T.I.R. COPLANARITY on the affected part face.

Reason for change:

To eliminate air traps in next assembly [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1.

To reduce contact areas in next assembly [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1.

[D1000071](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=8454)-v3 TRANSMON\_TELE\_END\_PLATE\_ENTRY\_3\_TUBE

Contained in assemblies: [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1, [D0901880](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=4854)-v1

1. ON SHEETS 2 & 3, centered with 8.50" diameter thru hole:

-FROM- Two 1/4-20 tapped holes spaced 11.000" apart, with .52" diameter c'sinks on near side.

-TO- Three 1/4-20 tapped holes equally spaced on 11.000" diametrical pattern, with .31" diameter c'sinks on near side, c'sinks to major diameter on far side.

1. ON SHEETS 4 & 5:

Added . 020" deep pocket features per DETAIL E. Features include added areas of .0003" T.I.R. COPLANARITY on the affected part face.

Reason for change:

To eliminate air traps in next assembly [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1.

To reduce contact areas in next assembly [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1.

[D1000275](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9081)-v2 aLIGO\_TRANSMON\_TELE\_BLACK\_GLASS\_PLATE

Contained in assemblies: [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1, [D0901880](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=4854)-v1

-FROM- Two .34" diameter holes centered with 7.48" diameter hole, spaced 11.00" apart.

-TO- Three .34" diameter holes centered with 7.48" diameter hole, on (11.00") diametrical pattern (dimensioned rectangularly).

Reason for change:

To better stabilize the mounting base of the part in next assembly [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1.

[D1001108](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11500)-v1 aLIGO ETM TELESCOPE TUBE LARGE WASHER

1. Initial release.

Reason for change:

For precision interface of parts within next assembly [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1.

CHANGE DESCRIPTION (FROM / TO) continued

[D1001109](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11501)-v2 aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added four .206" diameter thru holes, crossing ends of 4 blind tapped holes.
2. Added "DRILL THRU 1 WALL" to call-out for 8 tapped holes.
3. Added DETAIL A- milled features.
4. Note added to lower right corner of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST ARTICLE- REVISION v1, S/N 001."

Reason for change:

Rework of first article- revision v1, S/N 001, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

Rework of first article- revision v1, S/N 001, to eliminate interference in higher assembly [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1.

[D1001129](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11595)-v3 aLIGO ETM OPTICAL TABLE

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. ON SHEET 3:

Added eight .188" diameter holes to be drilled from relieved face of part, thru wall of

5/16-18 tapped holes.

Reason for change:

To eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

[D1001160](https://dcc.ligo.org/DocDB/0011/D1001160/001/D1001160-v1%20aLIGO%20OPTICS%20TABLE%20TOP%20STRUCTURAL%20ASSEMBLYsldasm.PDF)-v1 aLIGO OPTICS TABLE TOP STRUCTURAL ASSEMBLY

&

[E1000786](https://dcc.ligo.org/DocDB/0026/E1000786/001/E1000786-v1%20BOM-aLIGO%20OPTICS%20TABLE%20TOP%20STRUCTURAL%20ASSEMBLY.pdf)-v1 BOM-aLIGO OPTICS TABLE TOP STRUCTURAL ASSEMBLY

Contained in assemblies: [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Initial release of assembly drawing & BOM. The following new component revisions per this notice are included in the assembly:

[D1001109](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11501)-v2 aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE

[D1001129](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11595)-v3 aLIGO ETM OPTICAL TABLE

[D1001161](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11643)-v2 aLIGO OPTICS TABLE TOP MODIFIED EYEBOLT

[D1001163](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11654&version=2)-v2 aLIGO OPTICS TABLE GUSSET PLATE, LARGE

[D1001164](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11655)-v2 aLIGO OPTICS TABLE GUSSET PLATE, SMALL

[D1002221](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=14634)-v2 aLIGO OPTICS TABLE SPEADER BRIDGE

[D1002696](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22151)-v2 aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE\_Front

[D1002698](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22153)-v2 aLIGO\_TMS\_Telescope\_Roll\_Slide\_Mass

[D1002699](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22154)-v2 aLIGO\_Pitch\_Slide\_Mass

[D1002758](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22467)-v2 aLIGO\_TMS\_Telescope\_Pitch\_Guide

[D1002768](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22486)-v3 aLIGO\_TMS\_Telescope\_Roll\_Mass\_Adj\_Rod

[D1003162](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=26238)-v3 aLIGO TMS TELESCOPE PITCH MASS ADJ. ROD

[D1100358](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=39163)-v1 TMS Telescope Mass Attachment Screw

CHANGE DESCRIPTION (FROM / TO) continued

[D1001161](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11643)-v2 aLIGO OPTICS TABLE TOP MODIFIED EYEBOLT

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D0901880](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=4854)-v1

1. Raw Material changed:

-FROM- McMaster-Carr P/N 33045T78

-TO- McMaster-Carr P/N 33045T72 or equivalent

1. Electro-polish specification added (flag note 12).

Reason for change:

The raw material of revision v1 had a shoulder which needed to be machined away for the final part's function. To reduce machining, revision v2 substitutes a similar raw material without a shoulder.

Electro-polish specification was missing on revision v1.

[D1001163](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11654&version=2)-v2 aLIGO OPTICS TABLE GUSSET PLATE, LARGE

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added nine .206" diameter cross drilled vent holes for 9 1/4-20 UNC blind tapped holes.
2. Six 1/4-20 UNC tapped holes, thread depth changed:

-FROM- .37"

-TO- .50" (as built condition for the first two articles)

1. Two 1/4-20 UNC blind tapped holes to break thru wall.
2. +.005"/-0" size tolerance added to one .503" diameter thru hole.
3. Locating dim. for 4.56" x 1.32" rectangular cut-out changed:

-FROM- 1.00"

-TO- .97" (as built condition for the first two articles)

1. Note added to lower right corner of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST 2 ARTICLES- REVISIONS v1, S/N 001, 002."

Reason for change:

Rework of first 2 articles- revisions v1, S/N 001, 002 as follows:

To eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

To provide missing tolerance for one .503" DIA. THRU hole.

Correction of drawing errors (Vendor let solid model over-ride drawing on revision v1 first 2 articles. Solid model was correct, first 2 articles are to revision v1 specification accordingly & regardless of drawing errors.)

CHANGE DESCRIPTION (FROM / TO) continued

[D1001164](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11655)-v2 aLIGO OPTICS TABLE GUSSET PLATE, SMALL

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added four .206" diameter thru holes, crossing ends of 4 blind tapped holes.
2. Note added to lower right corner of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST 2 ARTICLES- REVISIONS v1, S/N 001, 002."

Reason for change:

Rework of first 2 articles- revisions v1, S/N 001, 002, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

[D1002210](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=14602)-v2 aLIGO TMS FLEXABLE SEC MIRROR MT. ASSY

&

[E1000459](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=21217)-v2 BOM - TMS Telescope Secondary Mirror Mount

Contained in assemblies: [D1001600](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=12748)-v2, [D1003120](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=25986)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Mirror Clamp items D1002406, D1002407, & D1002237, one each, are all replaced by new design mirror clamp D1100114-v1.
2. Flexure Mount item [D1002211](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=14606) revision called for changed:

-FROM- revision v3

-TO- revision v4 (approved on another DCN)

Reason for change:

A more functional mirror clamping arrangement was found to be necessary.

[D1002221](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=14634)-v2 aLIGO OPTICS TABLE SPEADER BRIDGE

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added four .206" diameter thru holes, crossing ends of 4 blind tapped holes.
2. Note added to middle right side of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST 2 ARTICLES- REVISIONS v1, S/N 001, 002."

Reason for change:

Rework of first 2 articles- revisions v1, S/N 001, 002, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

[D1002696](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22151)-v2 aLIGO ETM TELESCOPE BRIDGE SUPPORT TEE PLATE\_Front

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added eight .206" diameter thru holes, crossing ends of 8 blind tapped holes.
2. Note added to lower right corner of drawing:

" \*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST ARTICLE- REVISION v1, S/N 001."

Reason for change:

Rework of first article- revision v1, S/N 001, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

CHANGE DESCRIPTION (FROM / TO) continued

[D1002698](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22153)-v2 aLIGO\_TMS\_Telescope\_Roll\_Slide\_Mass

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added two .206" diameter thru holes, crossing ends of 2 blind tapped holes.
2. Added two .206" diameter holes thru all, drilled across drilled ends of 2 blind tapped holes.
3. Note added to lower right corner of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST 2 ARTICLES- REVISIONS v1, S/N 001, 002."

Reason for change:

Rework of first 2 articles- revisions v1, S/N 001, 002, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

[D1002699](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22154)-v2 aLIGO\_Pitch\_Slide\_Mass

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added to call-out for 8 blind tapped holes: "DRILL THRU".
2. Added recess cut to part- 1.27" wide x .020" deep.
3. Added two .206" diameter holes, cross drilled to join drilled ends of 2 blind tapped holes.
4. Note added to lower right corner of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST 2 ARTICLES- REVISIONS v1, S/N 001, 002."

Reason for change:

Rework of first 2 articles- revisions v1, S/N 001, 002, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

[D1002758](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22467)-v2 aLIGO\_TMS\_Telescope\_Pitch\_Guide

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Added step cut to part- .53" x .032".
2. Note added to lower right corner of drawing:

"\*THIS REVISION APPLIES ONLY FOR REWORK OF FIRST 2 ARTICLES- REVISIONS v1, S/N 001, 002."

Reason for change:

Rework of first 2 articles- revisions v1, S/N 001, 002, to eliminate air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

CHANGE DESCRIPTION (FROM / TO) continued

[D1002768](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=22486)-v3 aLIGO\_TMS\_Telescope\_Roll\_Mass\_Adj\_Rod

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Removed .250" DIA. step down feature from each end.
2. Overall length changed:

-FROM- 10.40"

-TO- 10.80"

Reason for change:

Rework of first article- revision v1, S/N 001, to accommodate washers for elimination of air traps in next assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.

[D1003162](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=26238)-v3 aLIGO TMS TELESCOPE PITCH MASS ADJ. ROD

Contained in assemblies: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1, [D1000484](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=9663)-v1, [D1002460](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=20999)-v1

1. Note 5 changed:

-FROM- Standard Scribe, Engrave....

-TO- No Mark Bag & Tag

Reason for change:

Redesigned to eliminate machining.

[D1100358](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=39163)-v1 TMS Telescope Mass Attachment Screw

Contained in assembly: [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1

1. Initial release.

Reason for change:

Vented set screw was needed having compatibility with both stainless steel and aluminum parts in assembly [D1001160](https://dcc.ligo.org/cgi-bin/private/DocDB/ShowDocument?docid=11642)-v1.