

THOR-50M SBL Upgrade Guide

Update Publication: August 2018

Currently Humanetics is shipping all THOR-50M ATDs at Standard Build Level B. Multiple build level designations have increased the durability, usability, and accuracy of the THOR dummy over the years. This guide will detail the necessary steps to bring any THOR-50M dummy up to the current build level.

Pre-March 2016 Design Freeze

Pre-March 2016 Design Freeze ATDs will need to be evaluated by Humanetics to determine what level of build the dummy conforms to and what additional parts are needed for upgrade.

Upgrade Determination

If needed, our customer service team will assist in determining the current build level of your THOR-50M ATD given the original manufacturing date, and if any kits or components at an SBL A or B have been purchased.

When requesting a quote and/or RMA for the return of a THOR-50M ATD for upgrade, it is best we identify the expectations in advance of returning the ATD to our facility.

QUESTIONS:

- *Returning the THOR-50M ATD with the full set of sensors for recalibration services?*

We will provide a quote for item no. **UPGRADE THOR-50M WITH CERTS**

Description: UPGRADE THOR 50M FULL SENSOR DISASSY

This includes the disassembly of the sensors, assembly of the sensors back into the ATD after calibration, the rework of the mechanical parts and re-zeroing the IRTRACCS.



- *Returning the THOR-50M ATD without the sensors for recalibration services?*

We will provide a quote for item no. **UPGRADE THOR-50M WITH CERTS**

Description: UPGRADE THOR 50M FULL SENSOR DISASSY

****IMPORTANT TO NOTE:** Customer must return the full set of IR-TRACCS to be reworked/updated to the SBL B design.

This option includes the rework of the mechanical parts and re-zeroing of the IR-TRACCS.

All Upgrades MUST include the **RECERT-THOR ATD**, which includes a full set of certification tests to the SBL B corridors.

Recalibration of the IR-TRACCS is **optional** and must be quoted as a separate service. Please see pages 2.

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THOR-50M SBL Upgrade Guide (Con't)

Components to upgrade from March 2016 to SBL B

| Part No. | Description | Qty. |
|----------------|--|------|
| 472-KIT-A | COMPONENTS TO UPGRADE FROM MARCH 2016 to SBL A | 1 |
| 472-7800-KIT-A | MOLDED SHOE KIT | 1 |
| 472-2100-B-KIT | MOLDED NECK, T/C, SBL KIT | 1 |
| AXSDM053-B | ACCEL MOUNT SHOULDER | 1 |
| 472-4720-1-B | ATTACH BRACKET WELD ASSY LEFT | 1 |
| 472-4720-2-B | ATTACH BRACKET WELD ASSY RIGHT | 1 |
| 472-3733-B | LC THORACIC SPINE FLEX JOINT ADPTR ASSY | 1 |
| 472-4770 | BLOCK MOUNTING | 2 |

Components to upgrade from SBL A to SBL B

| Part No. | Description | Qty. |
|----------------|---|------|
| 472-2100-B-KIT | MOLDED NECK, T/C, SBL KIT | 1 |
| AXSDM053-B | ACCEL MOUNT SHOULDER | 1 |
| 472-4720-1-B | ATTACH BRACKET WELD ASSY LEFT | 1 |
| 472-4720-2-B | ATTACH BRACKET WELD ASSY RIGHT | 1 |
| 472-3733-B | LC THORACIC SPINE FLEX JOINT ADPTR ASSY | 1 |
| 472-4770 | BLOCK MOUNTING | 2 |

More Information

See the March 2016 Design Change History, SBL-A, and SBL-B Service Bulletins for additional component and certification detail.

IR-TRACC Recalibration Options R1, R2, R3

| Part Number | 3D | Tubes in-out IR-TRACC calibration | Harmonised IR-TRACC calibration | Y-axis angle calibration | Z-axis angle calibration | Zero-position 2D or 3D |
|-------------------------|---|-----------------------------------|---------------------------------|--------------------------|--------------------------|------------------------|
| 1 RECAL-3DR1-R3 (H) | Up to R3 IR-TRACCs* in 3D Assembly | | ● | ● | ● | ● |
| 2 RECAL-3DR1-R3 (H+TIO) | Up to R3 IR-TRACCs* in a 3D Assembly including R4-R5 Tube In-Out (TIO) Calibration Method | ● | ● | ● | ● | ● |

* without "R4" or R5" in the model number

IR-TRACC Recalibration Options R4 & R5

| Part Number | 3D | Tubes in-out IR-TRACC calibration | Harmonised IR-TRACC calibration | Y-axis angle calibration | Z-axis angle calibration | Zero-position 2D or 3D |
|-----------------------|------------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------|------------------------|
| 1 RECAL-3DR4/R5 (TIO) | R4 and R5 IR-TRACCs in 3D Assembly | ● | | ● | ● | ● |