



ALIGO ASSEMBLY DRAWING

aLIGO AOS OpLev Beam Splitter TRX Assembly

| AUTHOR(S) | DATE | Document Change Notice, Release or Approval |
|------------|--------------|---|
| Eric James | 9 July, 2012 | see LIGO DCC record Status |

This document is intended to serve as a description of this assembly until a real assembly drawing can be made.

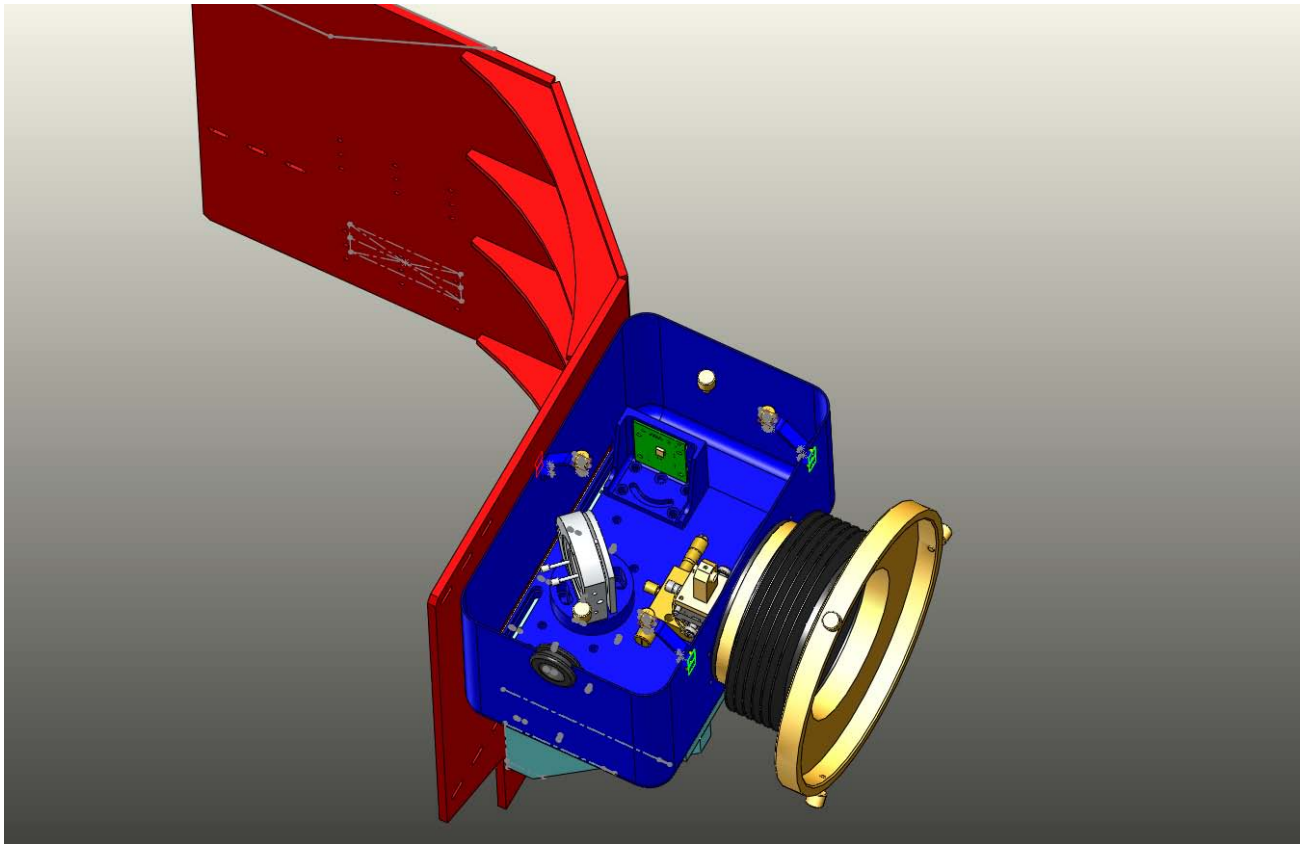


Figure 1: Beam Splitter Transceiver Assembly. Shown with cover removed.

Bill of Material

| Item | Part number | Description | Quant. |
|------|------------------------|------------------------------------|--------|
| 1 | D1100302 | HEPI Pier Adapter Assembly | 1 |
| 2 | D1001627 | TRX Mounting Base | 1 |
| 3 | D1001628 | Mirror Base | 1 |
| 4 | D1001620 | QPD Bracket | 1 |
| 5 | D1100290 | QPD Board Assembly | 1 |
| 6 | | 15-pin M-M Cable, Photodiode Board | 1 |
| 7 | KSP-60-C1A-S05 | OptoSigma Rotary Stage | 1 |
| 8 | GOHT40A10-MO2 0600-S10 | OptoSigma Goniometer | 1 |
| 9 | SL38 | Newport Gimbal Mirror Mount | 1 |
| 10 | | Pico Motors w/Cables | 2 |



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| | | | |
|----|------------|---|----|
| 11 | D1102242 | Transmitter Telescope Mount | 1 |
| 12 | D0901362-1 | Projection Telescope Assembly, Short | 1 |
| 13 | D1200823 | Transceiver Enclosure Assembly | 1 |
| 14 | D1200622 | 6-inch Reducer | 1 |
| 15 | CT-6 | Gortiflex 6" Rubber Bellows | 1 |
| 16 | | 1/4-20 x 3/4" SHCS | 10 |
| 17 | | 1/4-20 Hex Nuts | 4 |
| 18 | | M3 x 10 SHCS | 4 |
| 19 | | M3 x 6 SHCS | 4 |
| 20 | | #4-40 x 5/8" SHCS | 4 |
| 21 | | 1/4-20 x 3" SHCS | 1 |
| 22 | | 3" Band Clamp | 1 |
| 23 | 45945K37 | McMaster -Carr 6" Band Clamp | 2 |
| 24 | 92421A540 | McMaster -Carr 1/4-20 Brass Thumb Screw | 3 |
| 25 | 9600K62 | McMaster-Carr Rubber Grommet | 1 |
| 26 | F12 635S | Fermion Laser w/ 10m fiber | 1 |
| 27 | D1200461 | Laser Power Board | 1 |
| 28 | D1100013 | Whitening Chassis | 1 |
| 29 | D1101248 | Anti-aliasing Chassis | 1 |
| 30 | | 9-pin M-F Cable, Anti-aliasing Chassis | 1 |
| 31 | | BNC M-M Cable, Laser | 1 |
| 32 | | | |
| 33 | | | |
| 34 | | | |
| 35 | | | |



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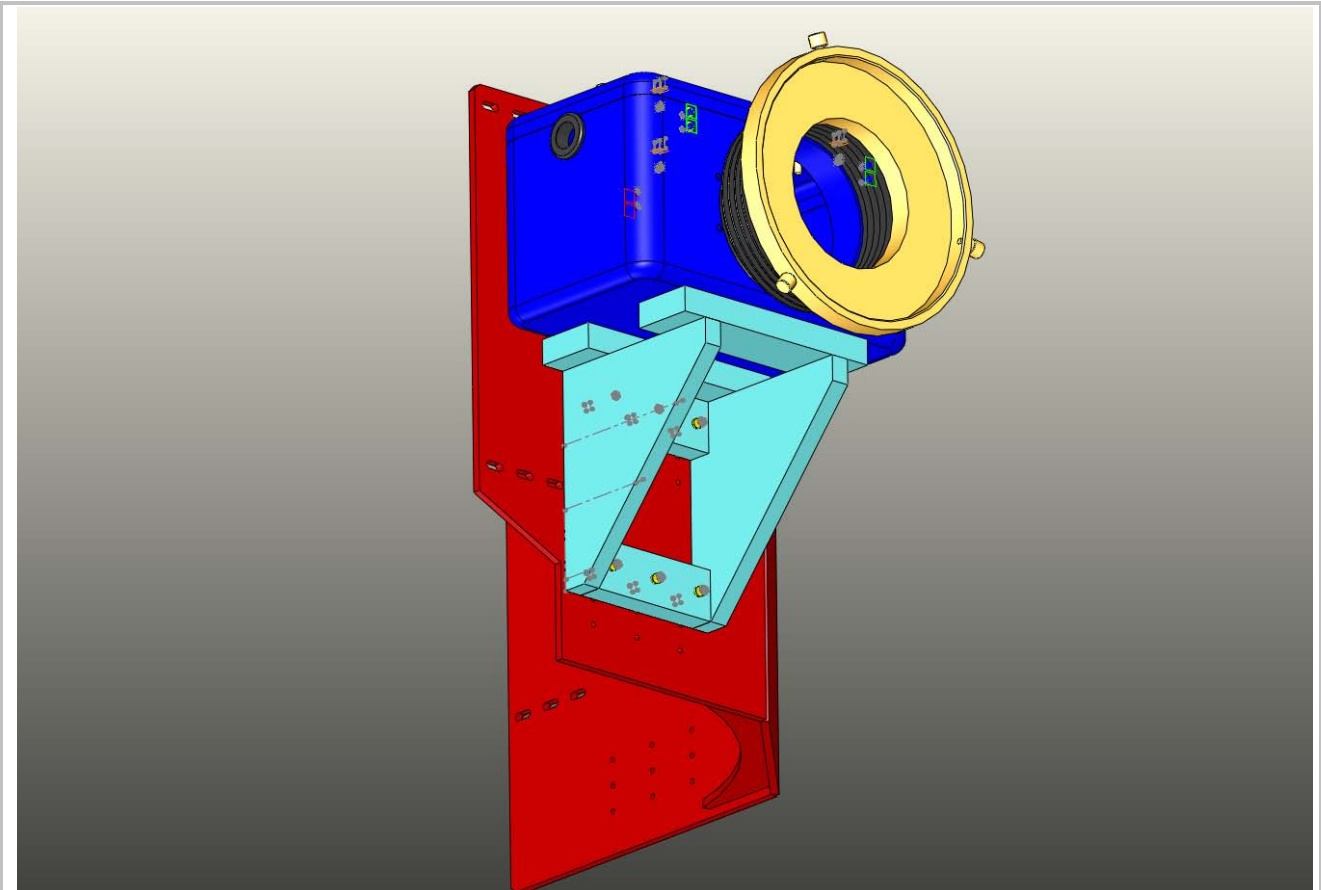


Figure 2: Beam Splitter Transceiver Assembly seen from below



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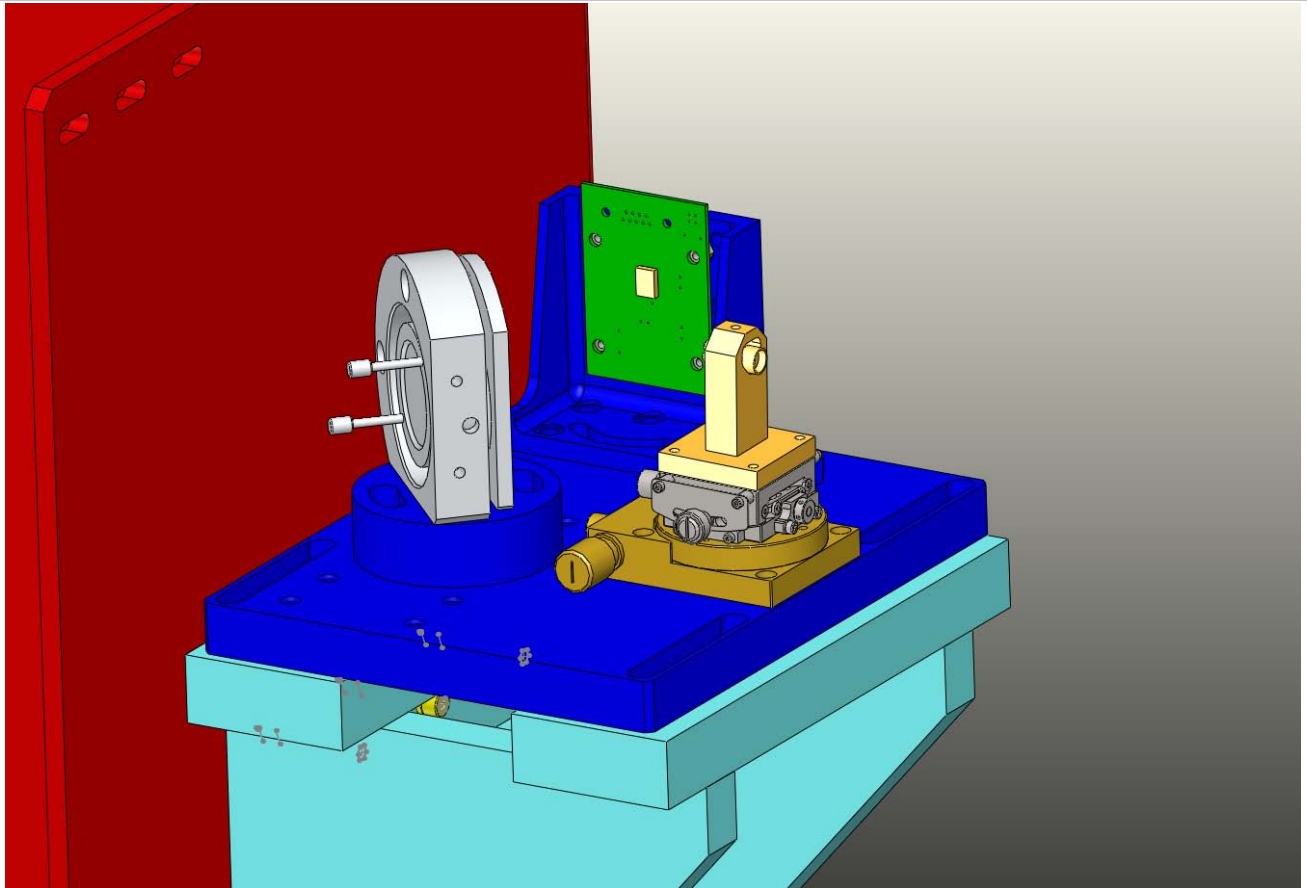


Figure 3: Entire enclosure removed.