



ALIGO ASSEMBLY DRAWING

aLIGO AOS OpLev SR3 (Left-hand) RX Pier 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. Illustrations are of the right-hand version. The left-hand version is similar. B.O.M. callouts are correct for the left-hand version.

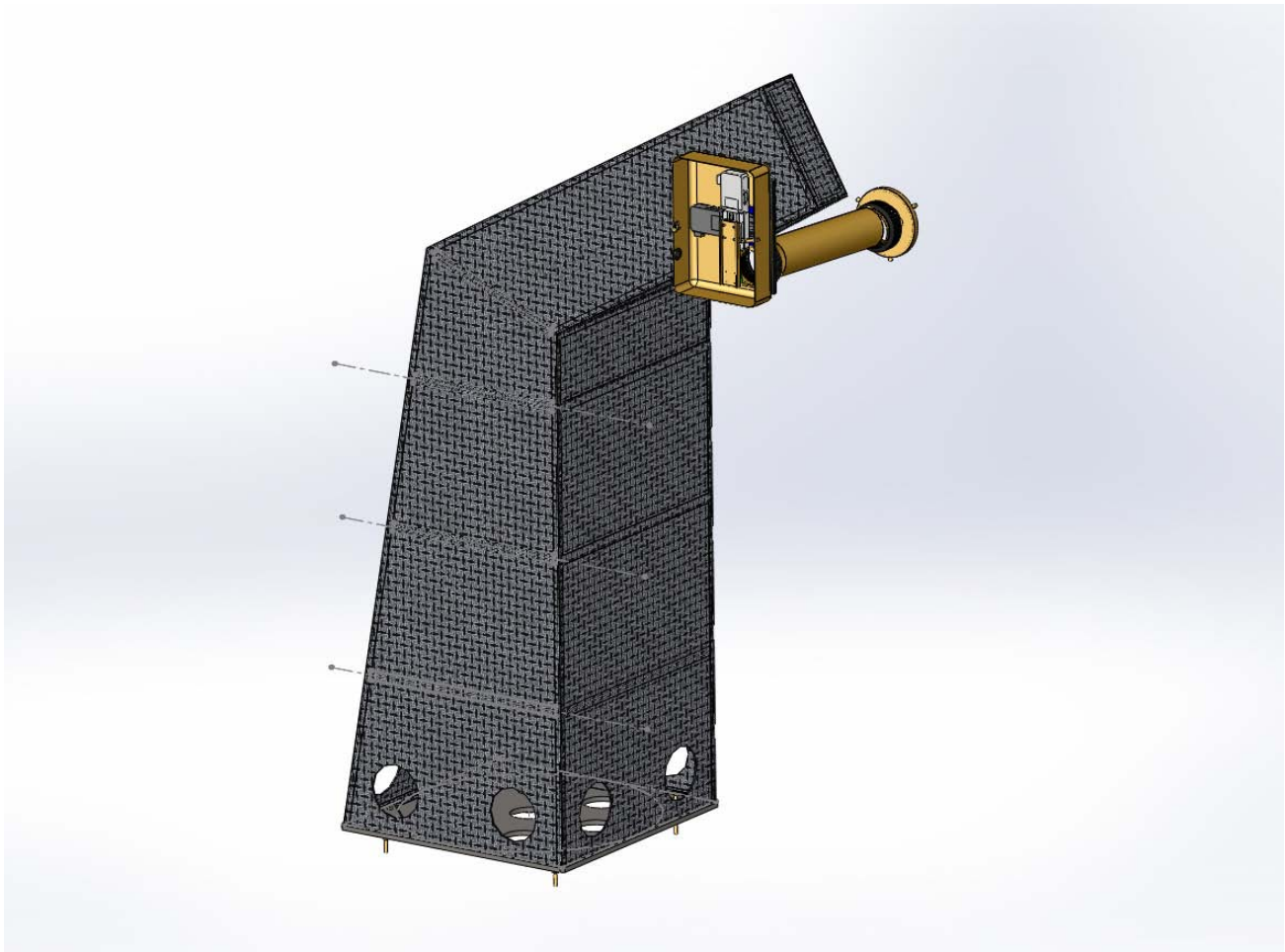


Figure 1: PR3 Receiver Pier Assembly. Right-hand giraffe shown with cover removed.



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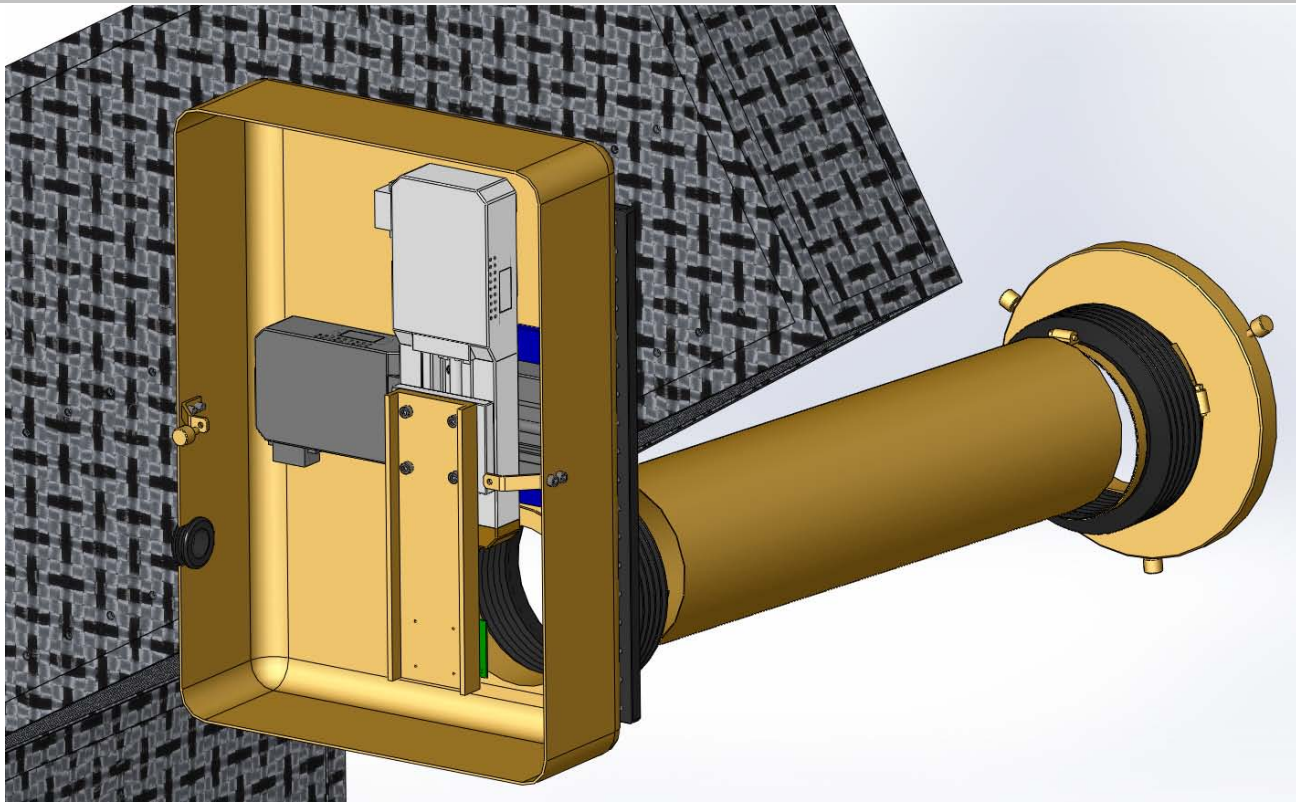


Figure 2: Close-up of Receiver with cover removed (right-hand version shown, left-hand version is similar).

Bill of Material

Item	Part number	Description	Quant.
1	D1101802	Pier "Giraffe" (right-hand version)	1
2	D1101823	Pier Base Plate	1
3	D1101824	Clamp	3
4	D1200819-101	PR3/SR3 Rx Breadboard (LH version)	1
5	D1001510	Stage Adapter	1
6	SGSP33-50	OptoSigma X-Y Stage	1
7	D1100617	PCB Carrier	1
8	D1200820	QPD Support	1
9	D1100290	QPD Board Assembly	1
10		15-pin M-M, Photodiode Board Cable	1
11	D1200822	Receiver Enclosure Assembly (LH)	1
12	D1200827	Bellows Mounting Ring	1
13	D1200622	6-inch Reducer	1
14	CT-6	Gortiflex 6" Rubber Bellows	2
15	45945K37	McMaster-Carr 6" Band Clamp	4
16	2561K12	McMaster-Carr 6" Dia. x 24" SS. Duct	1



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17		1/2-20 x 1.5" Hex head cap screw	9
18		1/4-28 x 5/8" SHCS	7
19		1/4-20 x 3/4" SHCS	8
20		M5 x 12 SHCS	8
21		M6 x 12 SHCS	4
22	92421A540	#4-40 x 5/8" SHCS	4
23		McMaster-Carr 1/4-20 x 3/4" Brass Thumb Screw	3
24			
25			

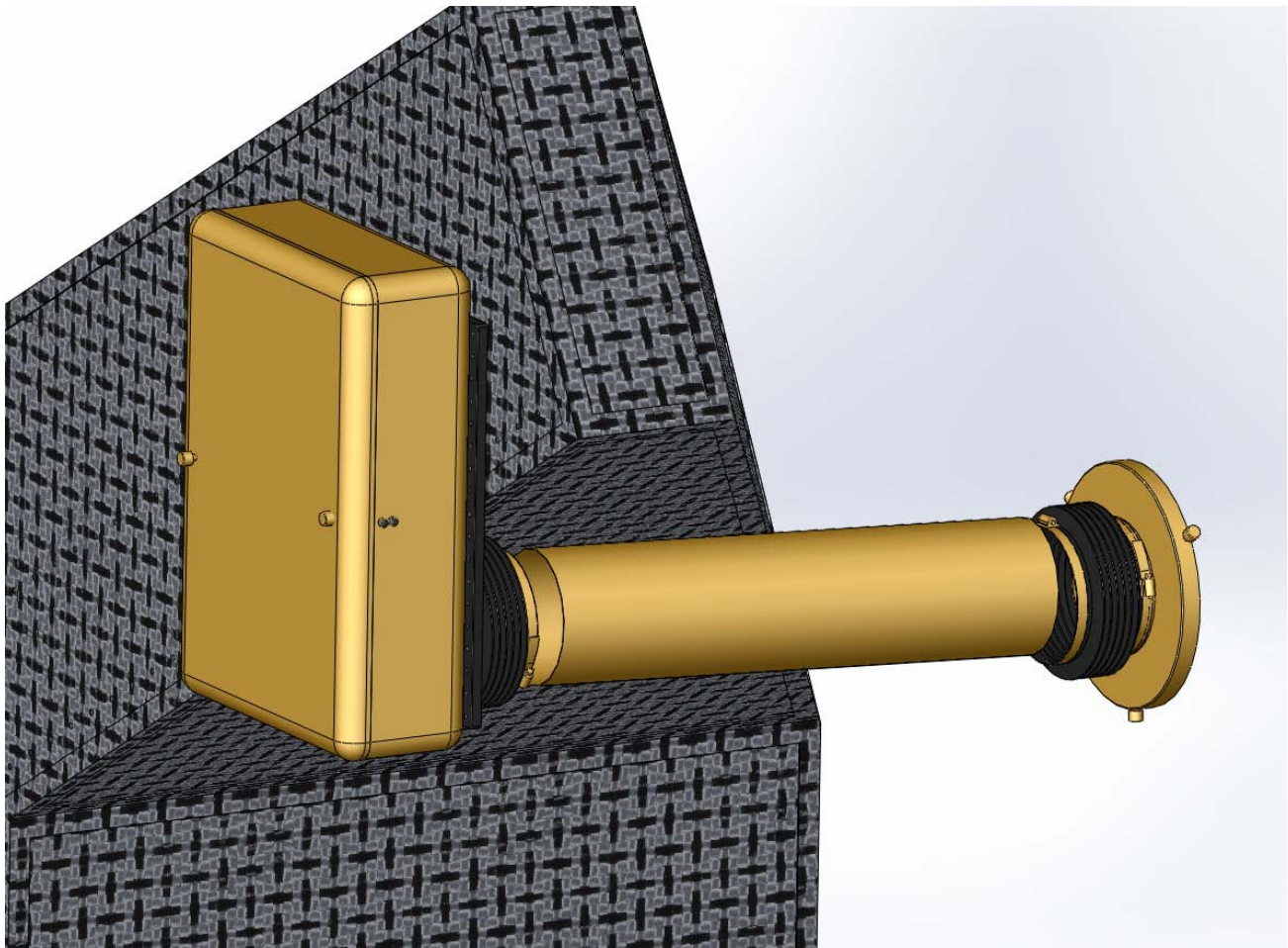


Figure 3: Optical Lever Receiver Enclosure(right-hand version shown, left-hand version is similar).



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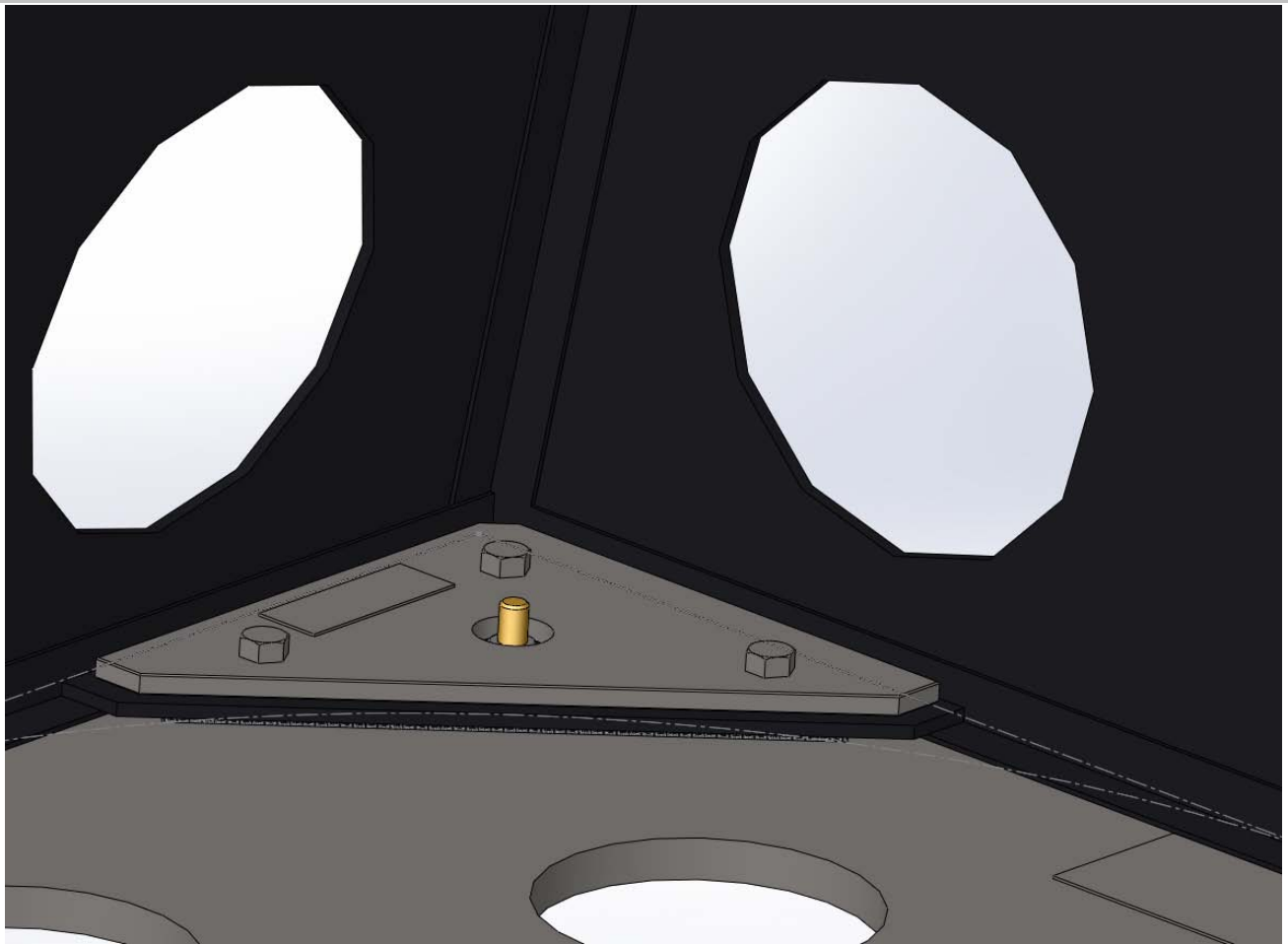


Figure 4:Base plate details