

2021 Module Production



The detector layer convention uses 1-7.

Layer 0

Module ID	Stereo (Half-Module ID)	Axial (Half-Module ID)	Assembled	Surveyed	Goodness (stereo /axial)	Mounted	Assignment	Notes (Stereo & Axial)
6	3	6					1T	FEB0 Hybrids 1 & 0
7	2	4					1B	FEB1 Hybrids 3 & 2
8	10	7			Not terrible/Not great			
9	8	9					2B	FEB1 Hybrids 0 & 1
4	1	5					2T	FEB0 Hybrids 3 & 2

L1 - L3

Module ID	Stereo (Half-Module ID)	Axial (Half-Module ID)	2014 Goodness (stereo/axial)	2019 Goodness (stereo/axial)	2021 Goodness (stereo/axial)	Assignment	Notes (stereo & axial)
0	24	9	Bad channels in 2 APVs furthest from beam	Couldn't communicate with APV			
1	26	28	Perfect	Perfect/Perfect			
2	23	25	Perfect	Perfect/Bad channels in second APV furthest from the beam	Few bad channels in middle/broken	Spare	
3	5	8	Perfect	Bad channels in APV farthest from the beam /Perfect		T3	FEB2 Hybrids 1 & 0
4	16	1	Perfect	Perfect/Couldn't communicate with an APV			
5	2	13	Bad channels in APV furthest from beam	Several bad channels on APV farthest from the beam	Bad channels on edge/very bad	Spare	
6	22	29	Perfect/Bad channel in APV furthest from beam	Perfect/Bad channel in APV furthest from the beam		T4	FEB2 Hybrids 2 & 3
7	14	21	Bad channels in 2 APVs furthest from beam; Bad hinge fit, drilled out and sanded to fit	Bad channels in APV closest to the beam/Bad channels in second APV furthest from the beam			
8	7	3	Bad channels in APV furthest from beam	Bad channels in APV furthest from the beam/ Bad channel in APV furthest from the beam		B3	FEB3 Hybrids 2 & 3
9	15	19	Weird noise shape/Bad channel in APV furthest from beam (warm runs only)	Weird noise vs channel distribution. Response looks fine (from 2014 runs).Bad channel in APV furthest from beam	Good (few bad in middle)/ Good (few bad in middle)	B4	FEB3 Hybrids 0 & 1

Everything Below here is a just a copy of 2019 for now

L5 - L7

Module ID	Stereo (Half-Module ID)	Axial (Half-Module ID)	2014 Goodness	Re-Tested	Goodness (stereo/axial)	Re-Mounted	Assignment
0	4	19	bad channels in middle APVs	5/11/19 (CB)	good/A hybrid flaky		
7	15	14	bad channels in APV furthest from beam/perfect	5/11/19 (CB)	good/good	yes	7B
8	1	13	bad channels on both edges/bad channels in 2 APVs furthest from beam	5/11/19 (CB)	good/B hybrid flaky sync		
3	9	4	perfect			yes	7T
1	5	6	perfect			untouched	5B
2	7	8	perfect	5/10/19 (CB)		untouched	6B

4	2	3	perfect	5/10/19 (CB)		untouched	5T
5	10	11	perfect	5/10/19 (CB)		untouched	6T
broken sensor hole side (not broken)	N/A	N/A	N/A	8/12/21 (AS)	looks OKAY noise/adcs		
broken sensor slot side (broken)	N/A	N/A	N/A	8/12/21 (AS)	Some hybrid channels seem damaged noise/adcs		
Hybrid 100	N/A	N/A	N/A	8/12/21 (AS)	One high noise channel adcs		
Hybrid 101	N/A	N/A	N/A	8/12/21 (AS)	One high noise channel adcs		

Half-Module ID	Goodness (Hole)	Goodness (Slot)	Assignment	Notes
Alpha	4/5 APVs	5/5 APVs		Originally Module 0, axial
Beta	5/5 APVs	5/5 APVs	L5B Stereo (08/26/21)	Recovered slot side by replacing trigger fan out + wiping with alcohol wipe
Gamma	5/5 APVs	4/5 APVs	L7B Axials (08/26/21)	Recovered hole side by replacing clock fan out!
Boh! (broken sensor)	5/5 APVs Low noise on one APV (broken sensor removed)	5/5 APVs has sensor		This half-module had a broken sensor that was removed from the carbon. Not yet replaced
Pezzo (broken sensor)	5/5 APVs (broken sensor removed)	5/5 APVs has sensor		

Module 3 was removed from 6B and the module 0 stereo half-module was mounted to module 3 axial by Tim in the hps alcove. Module 3 was not re-tested before going into 6T.

Find 4-6 half-module QA here: [L4-L6 Half-Module Production](#)