

Production Status

RIKEN/RBRC

Itaru Nakagawa

INTT Production Status

* Beyond 112 are spares

2022	1	2	3	4	5	6	7	8	Qty*	Status
Silicon									135	Done
HDI									176	Done
Stave									204	Done
Bus Extender		Batch-1(20)			Batch-2(40)			Batch-3(70)	130	Production
Conversion Cable	Prototype-1		Prototype-2					Production (130)	130	Prototype
Beam Clock Board	Design			Preproduction(2)			Production(18)		20	Prototype

INTT Production Status

Today

* Beyond 112 are spares

2022	1	2	3	4	5	6	7	8	Qty*	Status
Silicon									135	Done
HDI									176	Done
Stave									204	Done
Bus Extender		Batch-1(20)			Batch-2(40)				130	Production
			Contract				Batch-3(70)			
Conversion Cable	Prototype-1			Prototype-2					130	Prototype
							Production (130)			
Beam Clock Board	Design		Public bid		Preproduction(2)		?	?	20	Prototype
							Production(18)			

- Batch-2(40) Bus Extender Production is on schedule. Expected delivery is end of April as planned. All cables are to be shipped to BNL right away.
- μ -coax cable procurement is in severe situation for INTT operation towards day-1 operation of sPHENIX. Started searching for the fallback solution.

SUS Tubes for Nitrogen Gas Line



- 24 gas line tubes were delivered from Asuka co. on Feb. 24th.
- The target pick up date is March 10th. (To be delivered to BNL in 2nd week of March.)

ROC Test @ RIKEN

ROC Regulator Upgrade Status

1008 ROC Board Database

ファイル 編集 表示 挿入 表示形式 データ ツール 拡張機能 ヘルプ 最終編集: 数秒前

016

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1		1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				regulator replacement done
2								2020/3/																		
3	INTT ROC ID	2	5	6	7	9	10	11	13	15	16	17	18	19	20	22	23	24	26	28	29	31	32			
4	FVTX ROC ID	NW4	NW0	NW2		SW	SW	27	NE4	NE0	NE3	NW3	NE2	NE5	SW5	SE2	SE1	SE4	SE3	SE0		NW1	NE2			
5	Location on Sept. 28, 2020					TW	TW	NWU?																		
6	Location on Oct. 20, 2020																									
7	Location on June 9, 2021																									
8	Location on June 18, 2021	RKN	RKN	RKN	RKN				RKN																	
9	Regulator Replacement July 8, 2021	RPC	RPC	RPC					RPC	RPC	RPC	RPC	RPC	RPC		RPC			RPC=Hayashi REPIC							
10	Location on July 17, 2021																									
11	Location on Aug. 6, 2021	RKN	RKN	RKN					RKN	RKN	RKN	RKN	RKN	RKN		RKN										
12	Location on Aug. 13, 2021						RKN																			
13	Location on Oct. 28, 2021																									
14	Regulator Replacement Feb 18, 2021														RPC											RPC
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https://docs.google.com/spreadsheets/d/1NqsqNfkyfRpXj9aPM9hcaYEB5UxvhhLp_wnfW-ExAG0/edit#gid=0

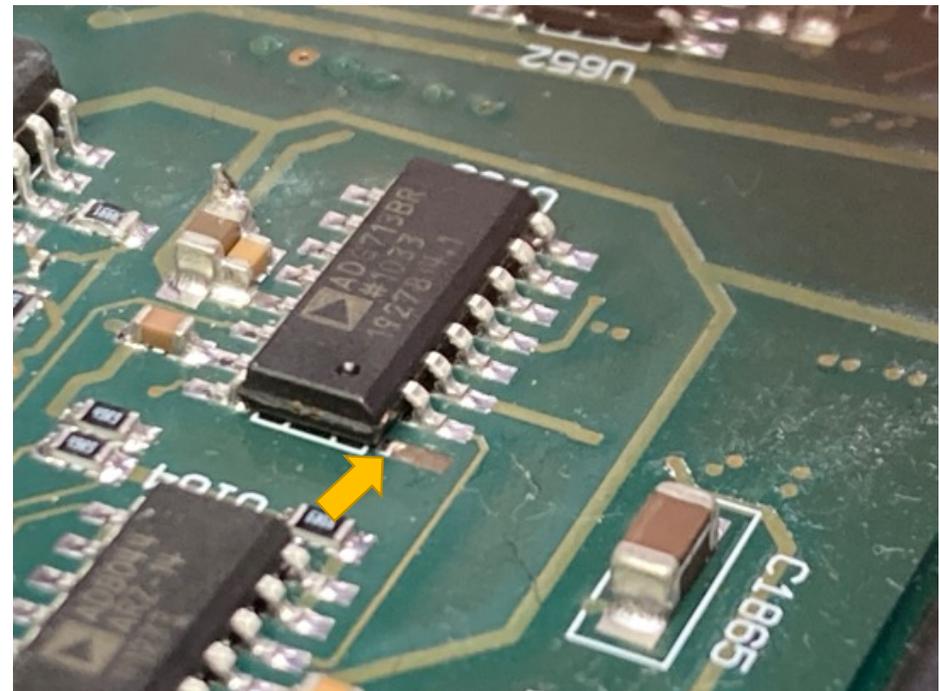
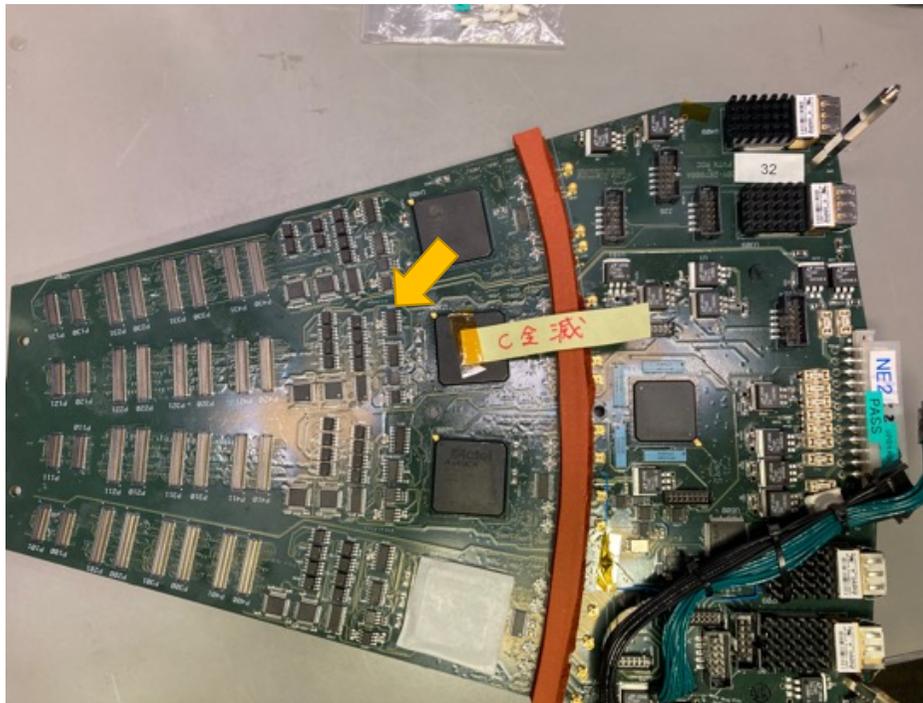
Status

データ探索

Progress in Repair Work

- NE2
- NW1

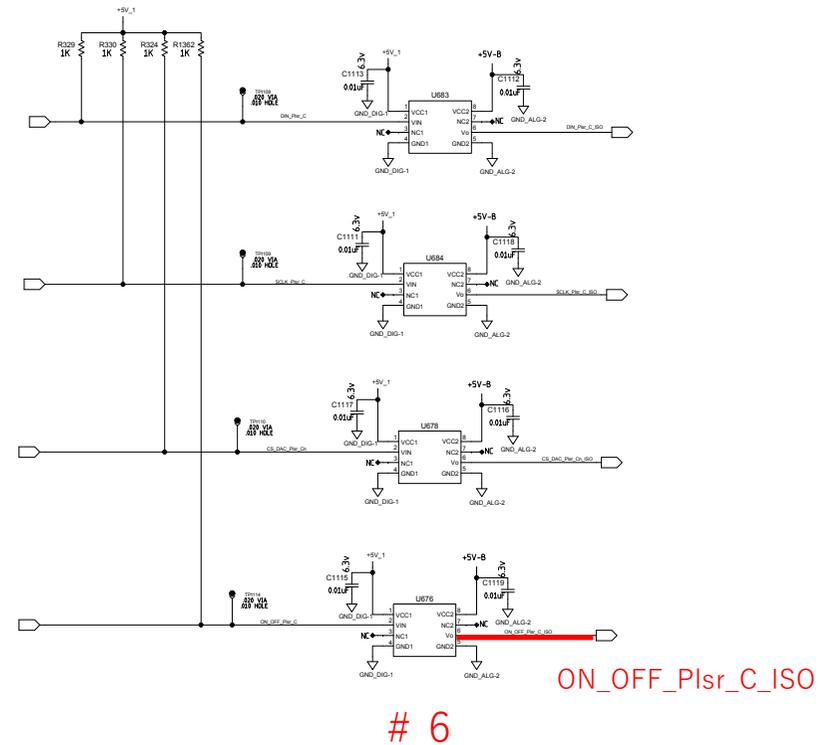
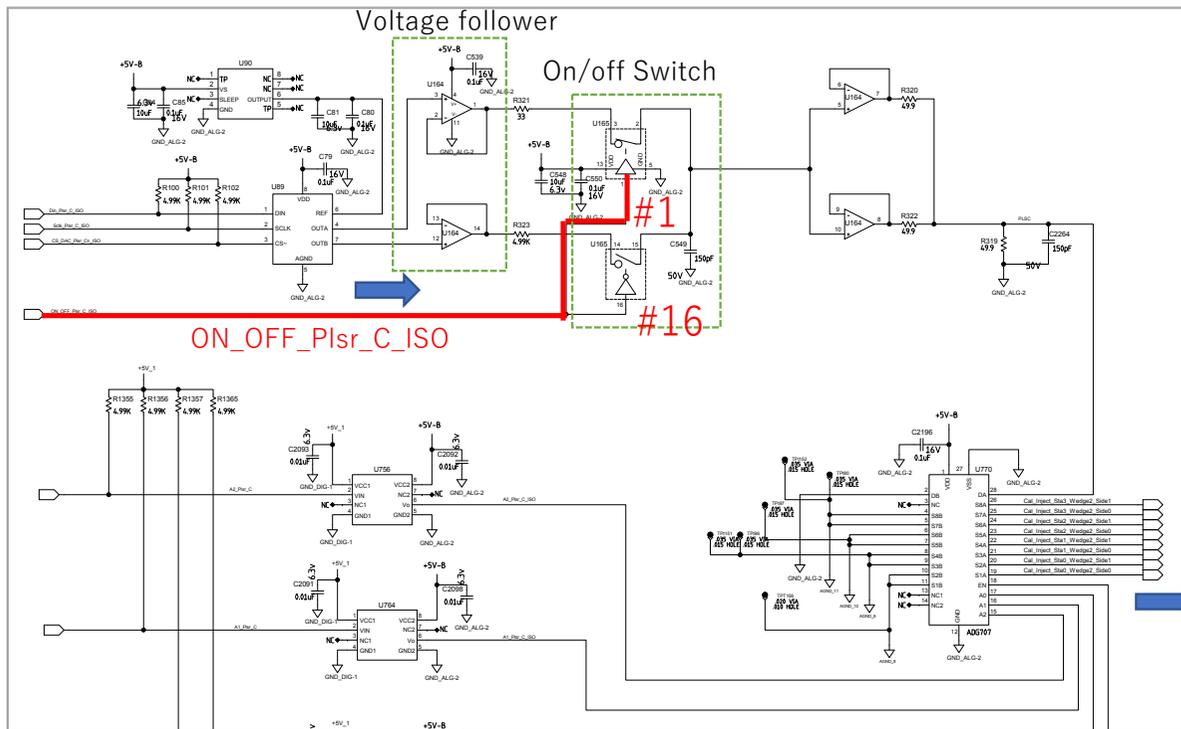
ROC Board NE2 (Failed all Column-C)



Missing Pin#1 (Leg is completely gone), pad metal is also gone.

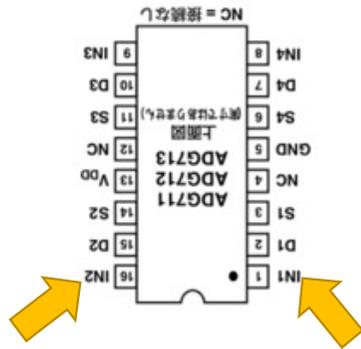
Pin#1 Input of U165

Calibration Pulser Circuit for Column-C



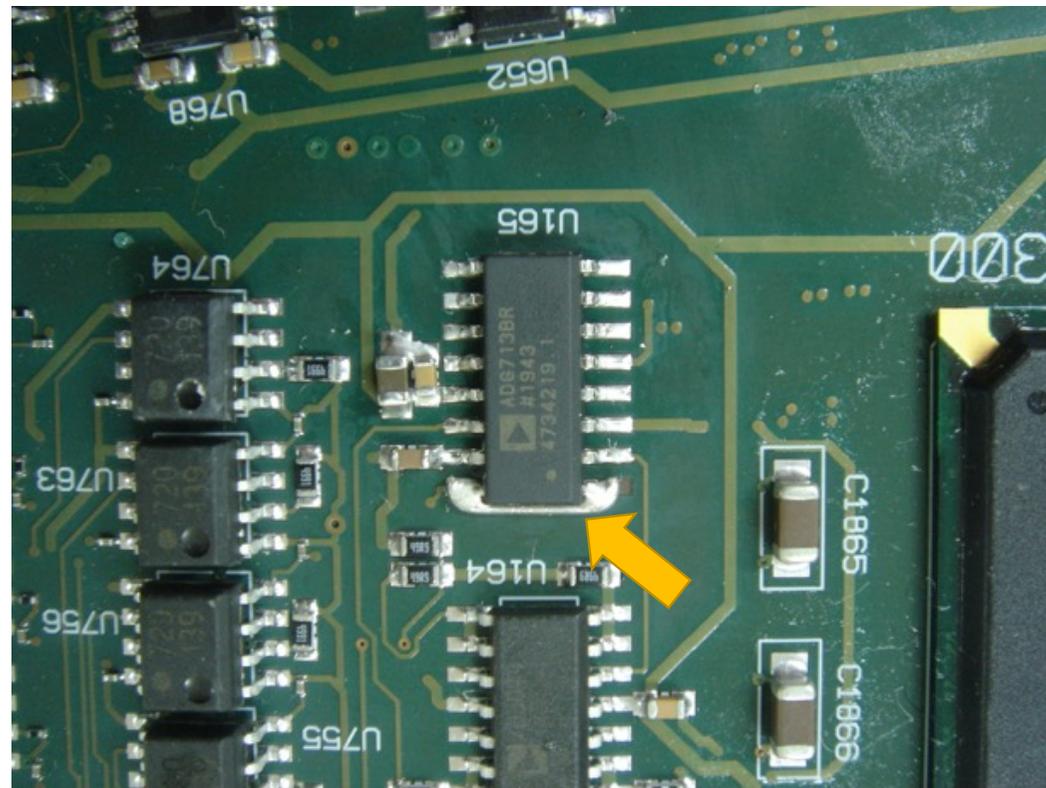
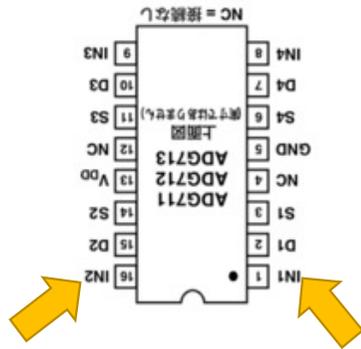
Jumper Solution

1. Replace ADG713BRZ chip
2. Install a jumper cable to short between pin#1 and #16



Jumper Solution

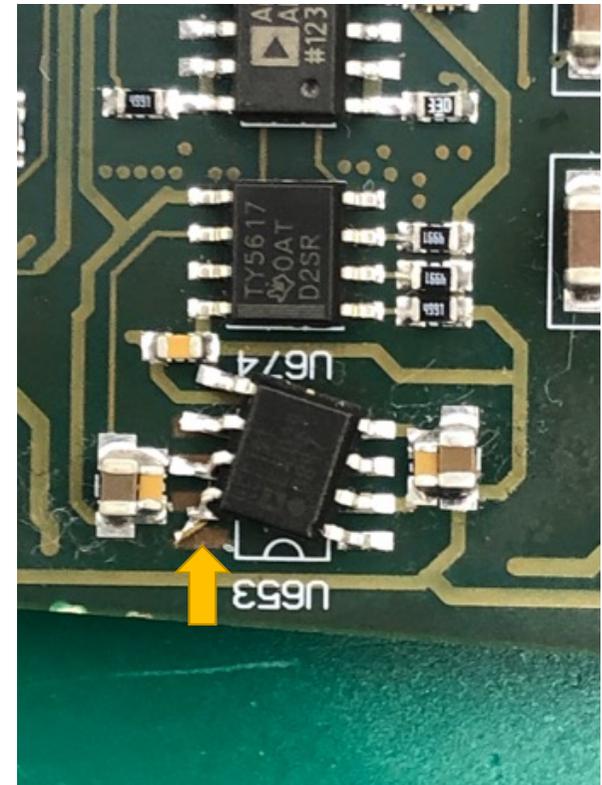
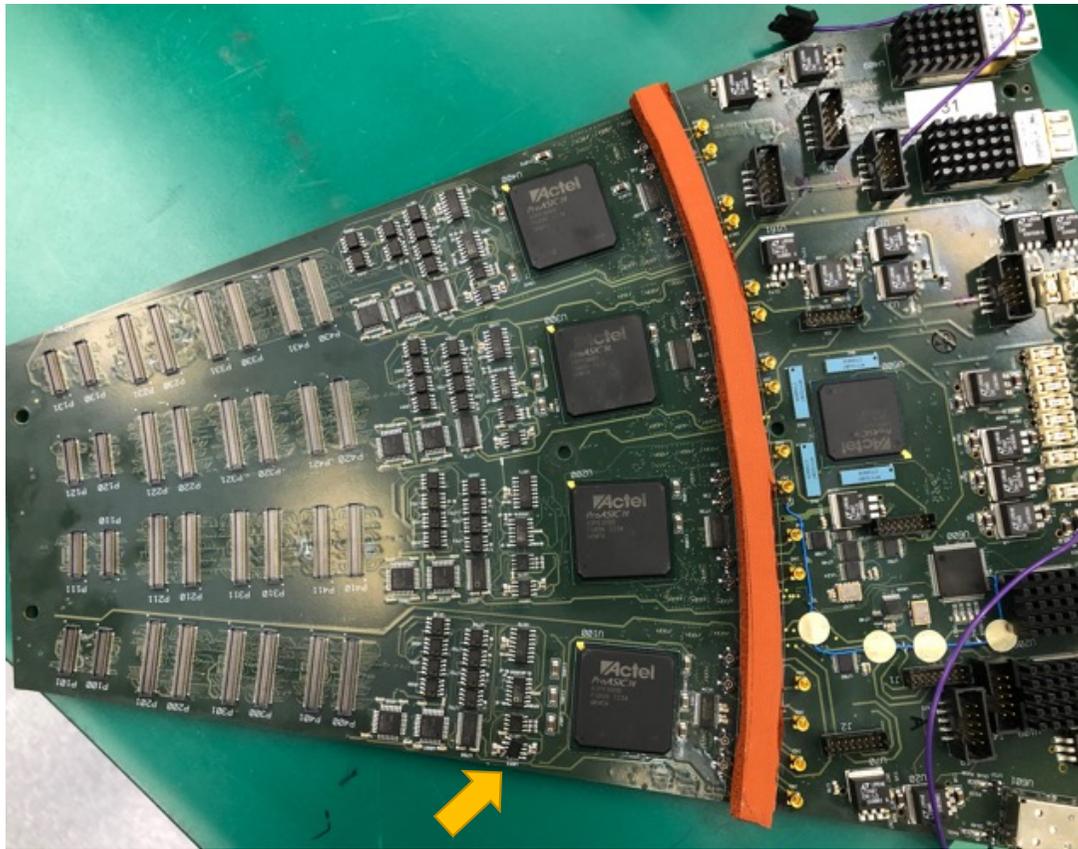
1. Replace ADG713BRZ chip
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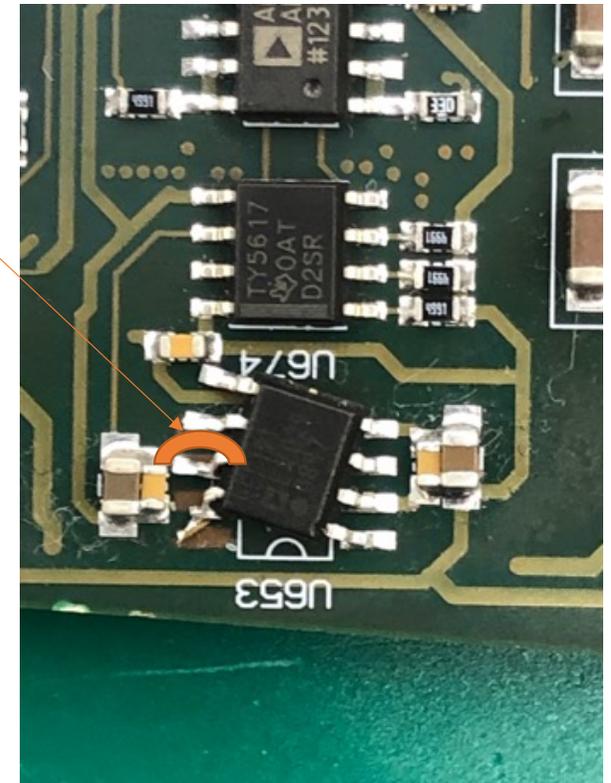
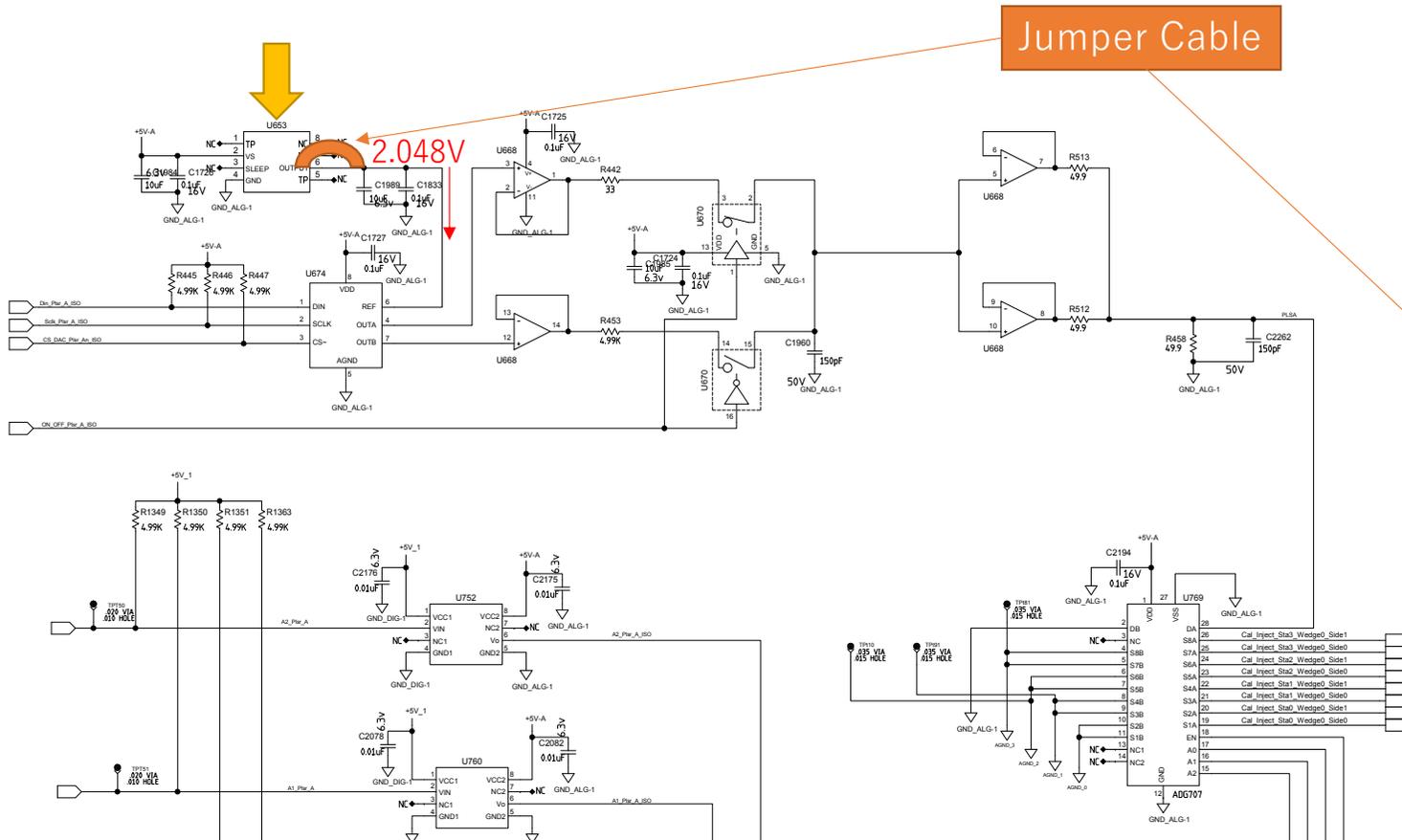
Fixed (March 4, 2022)

Damaged Chip on NW1

Pad's metal is peeled off. It may not be able to restore. Too bad.

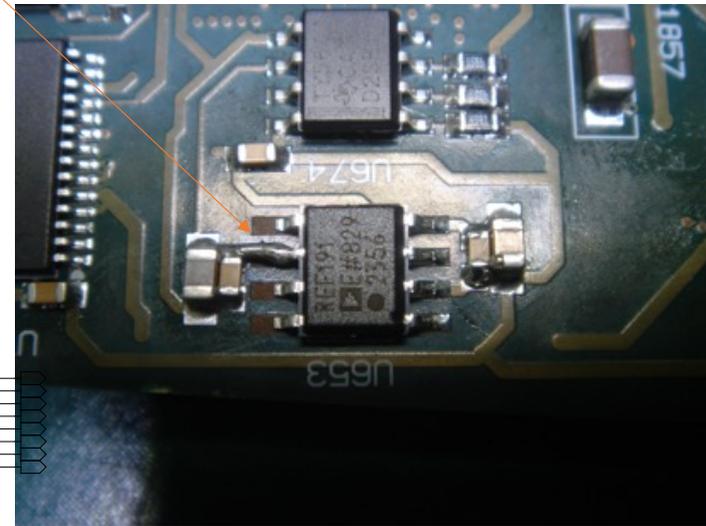
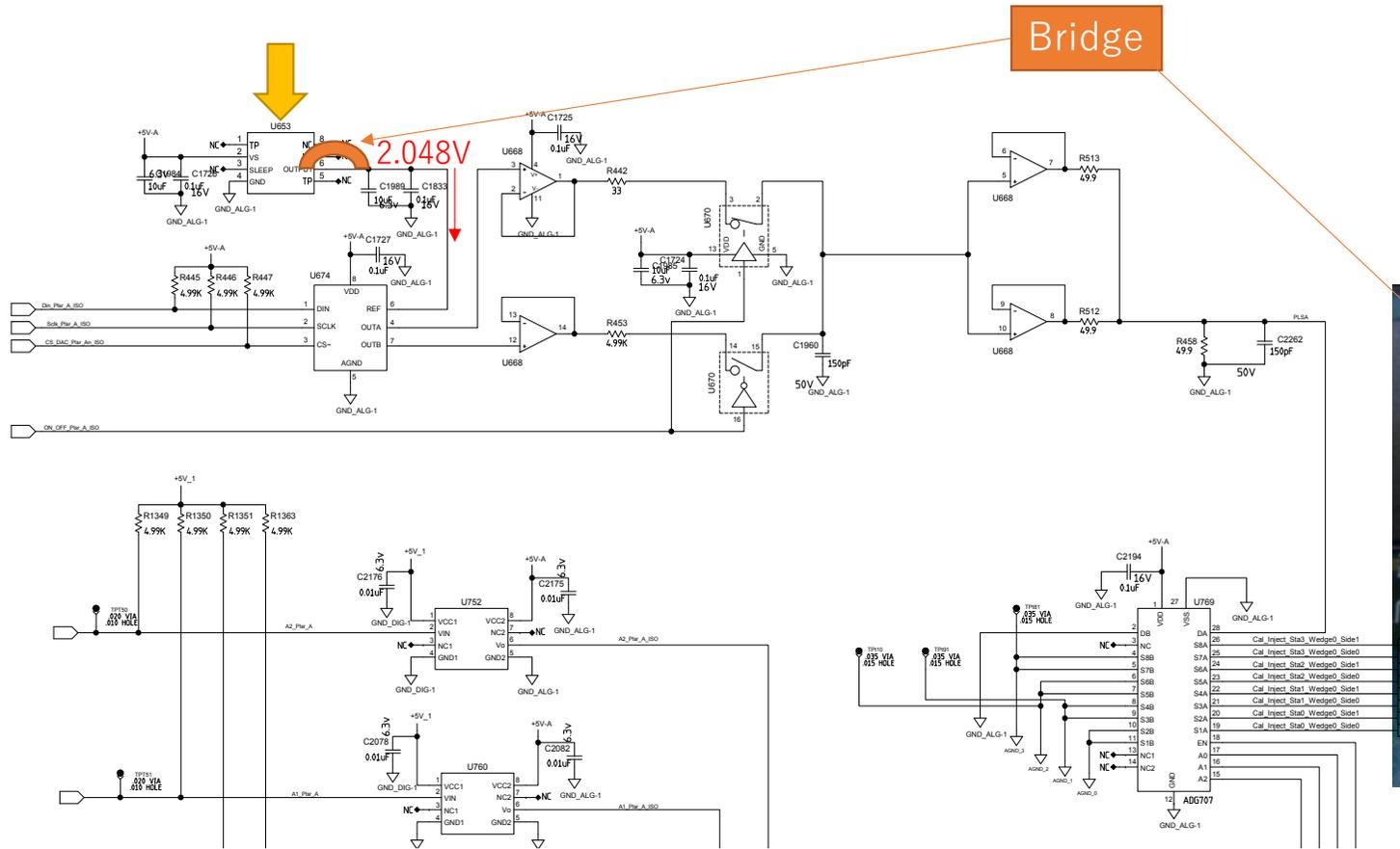


Calibration Pulse Circuit for Column-A



Looks ugly, but should work

Calibration Pulse Circuit for Column-A



Fixed March 4, 2022.

Plan

- Continue testing ROCs at RIKEN.
- Try to fix damaged ROCs accordingly and re-test them once they are fixed.
- Plan to ship ~8 good ROCs to BNL by the end of March.