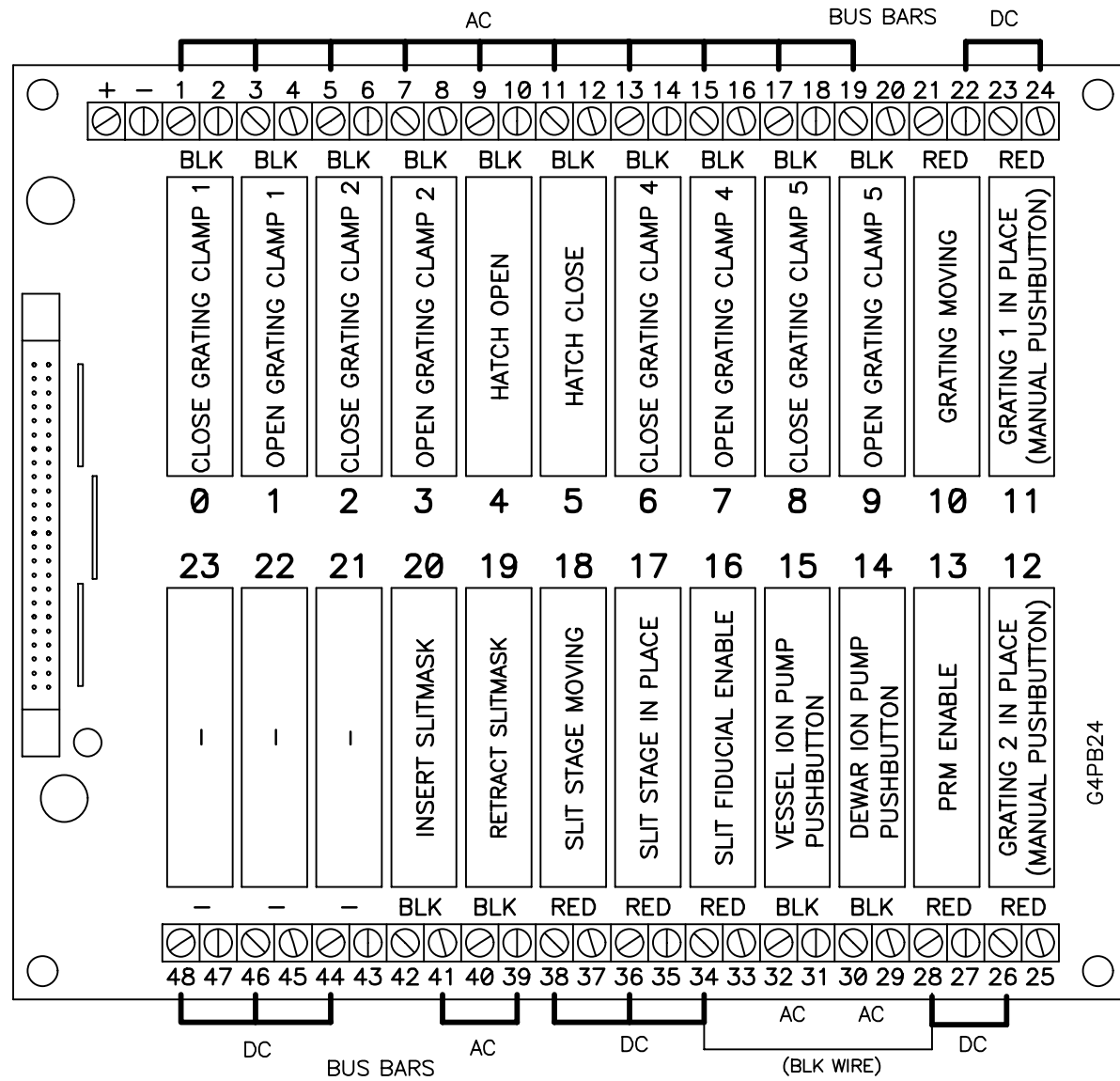


CABLE 4 OUTPUT PORTS CONTROLLER 2

J4

CH	BIT	PIN	FUNCTION	CH	BIT	PIN	FUNCTION	CH	BIT	PIN	FUNCTION
0	25	47	CLOSE GRATING CLAMP 1	8	33	31	CLOSE GRATING CLAMP 5	16	41	15	SLIT FIDUCIAL ENABLE
1	26	45	OPEN GRATING CLAMP 1	9	34	29	OPEN GRATING CLAMP 5	17	42	13	SLIT STAGE IN PLACE
2	27	43	CLOSE GRATING CLAMP 2	10	35	27	GRATING MOVING	18	43	11	SLIT STAGE MOVING
3	28	41	OPEN GRATING CLAMP 2	11	36	25	GRATING 1 IN PLACE	19	44	9	RETRACT SLITMASK
4	29	39	HATCH OPEN	12	37	23	GRATING 2 IN PLACE	20	45	7	INSERT SLITMASK
5	30	37	HATCH CLOSE	13	38	21	PRM ENABLE	21	46	5	-
6	31	35	CLOSE GRATING CLAMP 4	14	39	19	DEWAR ION PUMP PUSHBUTTON	22	47	3	-
7	32	33	OPEN GRATING CLAMP 4	15	40	17	VESSEL ION PUMP PUSHBUTTON	23	48	1	-

NOTE: TO USE THESE OUTPUTS USE THE GALIL COMMAND: CO 7



INSTRUMENT CONTROLLER
CONTROLLER #2
BOARD #4

CONTROL PANEL #4

BIT	PIN	OUTPUT BARRIER STRIP					
		TO	TO	TO			
	VCC	TBC-19R					
	GND	TBD-19L					
25	1	PN4-3	TBF-1 *	120 VAC (H)	G40AC5	GRATING CLAMP 1	0
	2	J43-1					
26	3	PN4-1	PN4-5		G40AC5	GRATING CLAMP 1	1
	4	J43-3					
27	5	PN4-3	PN4-7		G40AC5	GRATING CLAMP 2	2
	6	J43-5					
28	7	PN4-5	PN4-9		G40AC5	GRATING CLAMP 2	3
	8	J43-7					
29	9	PN4-7	PN4-11		G40AC5	HATCH OPEN	4
	10	J43-9					
30	11	PN4-9	PN4-13		G40AC5	HATCH CLOSE	5
	12	J43-11					
31	13	PN4-11	PN4-15		G40AC5	GRATING CLAMP 4	6
	14	J43-13					
32	15	PN4-13	PN4-17		G40AC5	GRATING CLAMP 4	7
	16	J43-15					
33	17	PN4-15	PN4-19		G40AC5	GRATING CLAMP 5	8
	18	J43-17					
34	19	PN4-17			G40AC5	GRATING CLAMP 5	9
	20	J43-19					
35	21	J57-9			G40DC5R	GRATING MOVING	10
	22	TBD-26L	PN4-24				
36	23	J57-10			G40DC5R	GRATING 1 IN PLACE	11
	24	PN4-22					
37	25	J57-13			G40DC5R	GRATING 2 IN PLACE	12
	26	TBD-25L					
38	27	J44-31			G40DC5R	PRM ENABLE	13
	28	PN4-34					
39	29	J55-3			G40AC5A	VESSEL PUSHBUTTON	14
	30	J55-4					
40	31	J48-3			G40AC5A	DEWAR PUSHBUTTON	15
	32	J48-4					
41	33	J49-15			G40DC5R	SLIT FIDUCIAL ENABLE	16
	34	PN4-36					
42	35	J56-10			G40DC5R	SLIT STAGE IN PLACE	17
	36	PN4-34	PN4-38				
43	37	J56-9			G40DC5R	SLIT STAGE MOVING	18
	38	PN4-36	TBD-23L				
44	39	PN4-41	PN4-27		G40AC5	RETRACT SLITMASK	19
	40	J42-4					
45	41	PN4-39	TBF-2 *	120VAC (H)	G40AC5	INSERT SLITMASK	20
	42	J42-1					
46	43	J19-15			-	-	21
	44	PN4-46					
47	45	J19-16			-	-	22
	46	PN4-44	PN4-48				
48	47	J19-17			-	-	23
	48	PN4-46	TBD-24L	+5V			

120VAC LOGIC

+5V LOGIC

+5V LOGIC

120VAC LOGIC

+5V LOGIC

NOTE:
TB => TERMINAL STRIP
PN => OPTO-22 RELAY PANEL
J => CONNECTOR ON PANEL
* => USE 18 GAUGE WIRE

REVISION

03-23-00	CORRECTED CONNECTOR DESIGNATIONS FOR CH. 14 AND 15 - VESSEL AND DEWAR IN TABLE ON RIGHT
09-08-00	ADDED LANTRONIX POWER CONTROL TO CHANNEL 13
11-27-00	CHANGED PIN 40 (LEFT HAND TABLE) FROM J42-3 TO J42-4
01-02-01	REMOVED LANTRONIX CONTROL RELAY. CONTROL IS NOW DONE BY A TIME-ON RELAY.
04-30-01	SWAPPED GRATING CLAMP OPEN AND CLOSE SIGNALS
05-29-01	MOVED HATCH SIGNAL TO THIS BOARD
08-01-01	CORRECTED WIRE CONNECTIONS FOR PRM
03-18-02	REMOVED REFERENCES TO MANUAL PADDLE - NOT IMPLEMENTED

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		OUTPUT PORT ASSIGNMENTS 25-48 CONTROLLER #2 OPTO-22 DEIMOS SPECTROGRAPH	
DES'N BY: B. Alcott	ORIGIN DATE: 12-18-95	DWG. NO.	NUM. 1 OF 1
DRAWN BY:	MODIFY DATE: 03-18-02	EL-3037	
PATH: DEIMOS\OUT4	REV.A		

EL-3037-2D

BOARD #4