

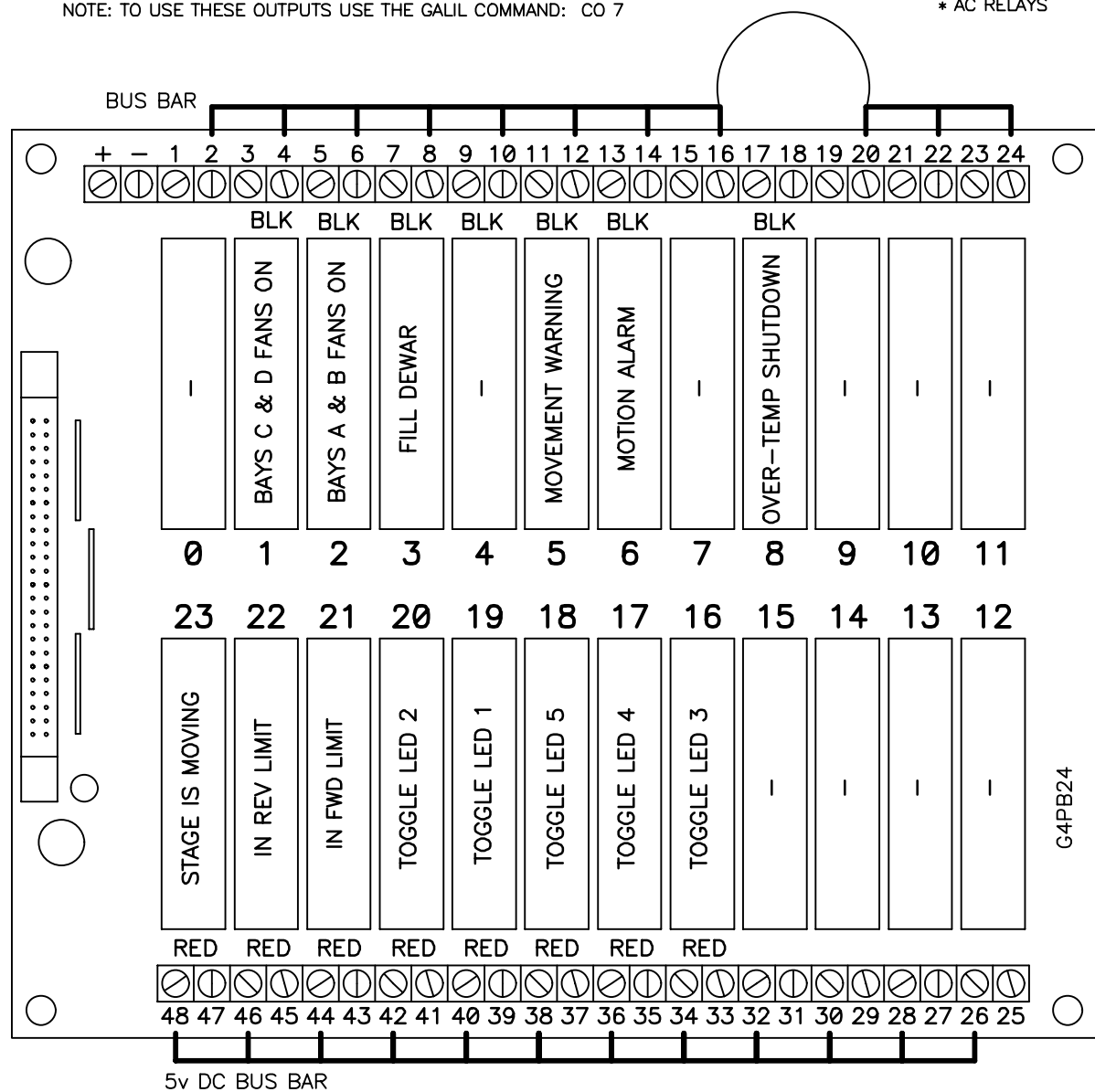
CABLE 7 OUTPUT PORTS CONTROLLER 0

J7

CH	BIT	PIN	FUNCTION	CH	BIT	PIN	FUNCTION	CH	BIT	PIN	FUNCTION
0	17	47	-	8	25	31	OVER TEMPERATURE SHUTDOWN*	16	33	15	TOGGLE LED 3 (DISABLED_LED)
1	18	45	BAYS C & D FANS ON	9	26	29	-	17	34	13	TOGGLE LED 4 (BYPASSED_LED)
2	19	43	BAYS A & B FANS ON	10	27	27	-	18	35	11	TOGGLE LED 5 (E_STOP_LED)
3	20	41	FILL DEWAR*	11	28	25	-	19	36	9	TOGGLE LED 1 (BAND_BRAKE_LED)
4	21	39	-	12	29	23	-	20	37	7	TOGGLE LED 2 (LOCKED_OUT_LED)
5	22	37	MOVEMENT WARNING*	13	30	21	-	21	38	5	IN FORWARD LIMIT
6	23	35	MOTION ALARM*	14	31	19	-	22	39	3	IN REVERSE LIMIT
7	24	33	-	15	32	17	-	23	40	1	STAGE IS MOVING

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

\* AC RELAYS



CRADLE CONTROLLER  
CONTROLLER #0  
BOARD #7

CONTROL PANEL #7

BIT	PIN	OUTPUT BARRIER STRIP				
		TO	TO	TO		
	VCC	TBA-11				
	GND	TBB-21				
17	1	TBE-3 *	PN7-4	110 VAC (H)*	-	-
	2	-	-	-	-	-
	3	AC1-H	PN7-2	VLT FANS	G4OAC5	BAY C & D FANS ON
18	4	PN7-2	PN7-6	-	-	-
	5	AC2-H	PN7-4	VLT FANS	G4OAC5	BAY A & B FANS ON
19	6	PN7-4	PN7-8	-	-	-
	7	JV6-6	PN7-10	DWR FILL	G4OAC5	FILL DEWAR
20	8	PN7-6	PN7-10	-	-	-
	9	-	-	-	-	-
21	10	PN7-8	PN7-12	-	-	-
	11	AC3-H	PN7-10	-	G4OAC5	MOVEMENT WARNING
22	12	PN7-10	PN7-14	-	-	-
	13	AC4-H	PN7-12	-	G4OAC5	MOTION ALARM
23	14	PN7-12	PN7-16	-	-	-
	15	-	-	-	-	-
24	16	PN7-14	PN7-20	-	-	-
	17	JV3-1	-	TEMP MONA	G4OAC5	OVER TEMP
25	18	JV3-2	-	-	-	-
	19	-	-	-	-	-
26	20	PN7-16	PN7-22	-	-	-
	21	-	-	-	-	-
27	22	PN7-20	PN7-24	-	-	-
	23	-	-	-	-	-
28	24	PN7-22	-	-	-	-
	25	-	-	-	-	-
29	26	-	PN7-28	-	-	-
	27	-	-	-	-	-
30	28	PN7-26	PN7-30	-	-	-
	29	-	-	-	-	-
31	30	PN7-28	PN7-32	-	-	-
	31	-	-	-	-	-
32	32	PN7-30	PN7-34	-	-	-
	33	JV9-24	PN7-32	MANWIRE 0	G4ODC5R	TOGGLE LED 3
33	34	PN7-32	PN7-36	MANWIRE 0	G4ODC5R	TOGGLE LED 4
	35	JV9-20	PN7-34	MANWIRE 0	G4ODC5R	TOGGLE LED 5
34	36	PN7-34	PN7-38	MANWIRE 0	G4ODC5R	TOGGLE LED 1
	37	JV9-19	PN7-36	MANWIRE 0	G4ODC5R	TOGGLE LED 2
35	38	PN7-36	PN7-40	MANWIRE 0	G4ODC5R	TOGGLE LED 3
	39	JV9-18	PN7-38	MANWIRE 0	G4ODC5R	IN FWD LIMIT
36	40	PN7-38	PN7-42	MANWIRE 0	G4ODC5R	IN REV LIMIT
	41	JV9-20	PN7-40	MANWIRE 0	G4ODC5R	STAGE IS MOVING
37	42	PN7-40	PN7-44	MANWIRE 0	G4ODC5R	-
	43	JV9-15	PN7-42	MANWIRE 0	G4ODC5R	-
38	44	PN7-42	PN7-46	MANWIRE 0	G4ODC5R	-
	45	JV9-16	PN7-44	MANWIRE 0	G4ODC5R	-
39	46	PN7-44	PN7-48	MANWIRE 0	G4ODC5R	-
	47	JV9-17	TBB-13	MANWIRE 0	G4ODC5R	-
40	48	TBB-13	GND	MANWIRE 0	G4ODC5R	-

120VAC LOGIC

+5V LOGIC

NOTE:

TB => TERMINAL STRIP

PN => OPTO-22 RELAY PANEL

J => CONNECTOR ON PANEL

\* => USE 18 GAUGE WIRE

REVISION

- 03-02-01 EDITED BIT NUMBERS FOR THE GALIL 1800 SERIES CONTROLLER
- 03-14-01 ADDED 'MOVEMENT\_WARNING' AND 'MOTION\_ALARM' TO CHANNELS 5 AND 6
- 06-21-01 ADDED TOGGLE LED 1 & 2 TO CHANNELS 19 AND 20 TO GIVE SOFTWARE CONTROL OF LEDS
- 07-18-01 ADDED BUSSED CONNECTIONS BACK INTO WIRING TABLE ON RIGHT SIDE
- 11-19-01 REMOVED OBSERVATION IN PROGRESS WIRING AND CHANGED COOLING FAN LABELS
- 11-27-01 ADDED TOGGLE LED 3, 4, AND 5 TO GIVE EXPLICIT MEANING TO ROTATION ERROR LIGHTS
- 01-29-02 ADDED RELAY COLORS TO CHANNELS 16-20
- 02-26-02 CORRECTED REFERENCES FROM J9 TO JV9 (RIGHTHAND TABLE)

UNIVERSITY OF CALIFORNIA  
LICK OBSERVATORY

OUTPUT PORT ASSIGNMENTS 25-48  
CONTROLLER #0 OPTO-22  
DEIMOS SPECTROGRAPH

DES'N BY: B. Alcott

ORIGIN DATE: 10-30-97

DWG. NO.

NUM. 1 OF 1

DRAWN BY:

MODIFY DATE: 02-26-02

PATH: DEIMOS\OUT7

REV.A

EL-3113

EL-3113-2D

BOARD #7