

PANEL #1

PANEL #2

TERMINAL BOARD TBA +5V

TERMINAL BOARD TBB GND

TERMINAL BOARD TBC +5V

TERMINAL BOARD TBD GND

PIN	SIGNAL	Left Right		FUNCTION	
		VIA	TO		TO
1	+5V	J20-56/57	J5-20	J5-11	CCD FOCUS
2	+5V	J20-55/54	J6-11	J6-20	CCD TRANS
3	+5V	J20-53/52	J7-11	J7-20	FILTER WHEEL
4	+5V	J20-50/51	J8-20	J8-11	SPARE
5	+5V	J10-56/57	J1-20	J1-11	TV FILTER
6	+5V	J10-55/54	J2-11	J2-20	TV FOCUS
7	+5V	J10-53/52	J3-11	J3-20	SPARE
8	+5V	J10-51/50	J4-11	J4-20	SPARE
9	+5V	J20-49/48	J28-9	J27-9	ENCODERS
10	+5V	J20-47/46	J26-9	J25-9	ENCODERS
11	+5V				
12	+5V				
13	+5V		J59-8	J58-8	FILT. PB
14	+5V	J10-48/49	J22-9	J21-9	ENCODERS
15	+5V	J10-47/46	J23-9	J24-9	ENCODERS
16	+5V	J10/20-45	SA1A-62	SA1B-62	LSCOM
17	+5V				
18	+5V			J9-14	-
19	+5V		PANEL2	PANEL1	PANEL +5V
20	+5V		PANEL3	PWR SUP	PANEL +5V

PINS 1-20 JUMPERED ON TOP

PIN	SIGNAL	Left Right		FUNCTION	
		VIA	TO		TO
1	GND	J10-21/22	SA1A-1	SA1A-2	AMP GROUND
2	GND	J20-21/22	SA1B-1	SA1B-2	AMP GROUND
3	GND	J20-1/2	J5-6	J5-12	CCD FOCUS
4	GND	J20-4/3	J5-18	J5-17	CCD FOCUS
5	GND	J20-6/5	J6-12	J6-6	CCD TRANS
6	GND	J20-7/8	J6-17	J6-18	CCD TRANS
7	GND	J20-10/9	J7-12	J7-6	FILTER WHEEL
8	GND	J20-11/12	J7-17	J7-18	FILTER WHEEL
9	GND	J20-14/13	J8-12	J8-6	SPARE
10	GND	J20-16/15	J8-18	J8-17	SPARE
11	GND	J10-2/1	J1-12	J1-6	TV FILTER
12	GND	J10-4/3	J1-18	J1-17	TV FILTER
13	GND	J10-6/5	J2-12	J2-6	TV FOCUS
14	GND	J10-8/7	J2-18	J2-17	TV FOCUS
15	GND	J10-10/9	J3-12	J3-6	SPARE
16	GND	J10-12/11	J3-18	J3-17	SPARE
17	GND	J10-13/14	J4-6	J4-12	SPARE
18	GND	J10-15/16	J4-17	J4-18	SPARE
19	GND		J9-13	J58-7	FILTER PB
20	GND		PWR SUP	J59-7	TV FILTER PB
21	GND				
22	GND		PANEL1		PANEL GND
23	GND		PANEL2		PANEL GND
24	GND		PANEL3		PANEL GND
25	GND				
26	GND		J53-6		INTERLOCKS
27	GND		J51-2,4		AIR & COOLNT
28	GND				
29	GND				
30	GND	J20-17/18	J25-8	J26-8	ENCODERS
31	GND	J20-20/19	J28-8	J27-8	ENCODERS
32	GND	J10-18/17	J22-8	J21-8	ENCODERS
33	GND	J10-19/20	J23-8	J24-8	ENCODERS
34	GND				
35	GND				
36	GND				
37	GND				
38	GND				
39	GND				
40	GND				

PINS 1-40 JUMPERED ON TOP

PIN	SIGNAL	Left Right		FUNCTION	
		VIA	TO		TO
1	+5V	J40-57/56	J15-11	J15-20	CASSETTE
2	+5V	J40-54/55	J16-20	J16-11	SPARE
3	+5V	J40-53/52	J17-11	J17-20	SPARE
4	+5V	J40-51/50	J18-11	J18-20	SPARE
5	+5V	J30-57/56	J11-11	J11-20	SPARE
6	+5V	J30-55/54	J12-20	J12-11	GRATING #3
7	+5V	J30-53/52	J13-11	J13-20	GRATING #4
8	+5V	J30-51/50	J14-11	J14-20	GRATING SLIDE
9	+5V	J40-49/48	J35-9	J36-9	ENCODERS
10	+5V	J40-47/46	J37-9	J38-9	ENCODERS
11	+5V		J57-8	PNL5-43	GRAT. PB
12	+5V		J19-14	PNL6-47	-
13	+5V		J56-8	J49-13	SLIT, SLIT PB
14	+5V	J30-49/48	J31-9	J32-9	ENCODERS
15	+5V	J30-46/47	J34-9	J33-9	ENCODERS
16	+5V	J30/40-45	SA2A-62	SA2B-62	LSCOM
17	+5V			PANEL6	
18	+5V			PANEL5	PANEL +5V
19	+5V			PANEL4	
20	+5V			PWR SUP	

PINS 1-20 JUMPERED ON TOP

PIN	SIGNAL	Left Right		FUNCTION	
		VIA	TO		TO
1	GND	J40-22/21	SA2A-1	AMP GROUND	
2	GND	J30-21/22	SA2B-1	AMP GROUND	
3	GND	J40-1/2	J15-6	J15-12	SLITMASK
4	GND	J40-3/4	J15-17	J15-18	SLITMASK
5	GND	J40-5/6	J16-6	J16-12	SPARE
6	GND	J40-8/7	J16-18	J16-17	SPARE
7	GND	J40-9/10	J17-6	J17-12	SPARE
8	GND	J40-12/11	J17-18	J17-17	SPARE
9	GND	J40-14/13	J18-12	J18-6	SPARE
10	GND	J40-15/16	J18-17	J18-18	SPARE
11	GND	J30-2/1	J11-12	J11-6	SPARE
12	GND	J30-3/4	J11-17	J11-18	SPARE
13	GND	J30-5/6	J12-6	J12-12	GRATING #3
14	GND	J30-7/8	J12-17	J12-18	GRATING #3
15	GND	J30-9/10	J13-6	J13-12	GRATING #4
16	GND	J30-11/12	J13-17	J13-18	GRATING #4
17	GND	J30-14/13	J14-12	J14-6	GRATING SLIDE
18	GND	J30-15/16	J14-17	J14-18	GRATING SLIDE
19	GND		PANEL4	J49-4	SLITMASK ENVIRON.
20	GND		PWR SUP	J49-8	SLITMASK ENVIRON.
21	GND		PANEL5	J49-2	SLITMASK ENVIRON.
22	GND		PANEL6	J49-6	SLITMASK ENVIRON.
23	GND		PN4-38	J44-20	GRATING SLIDE
24	GND		PN4-48	J44-23	GRATING SLIDE
25	GND		PN4-26	J44-26	GRATING SLIDE
26	GND		PN4-22	J42-3	SLITMASK SOLENOID
27	GND		J56-7	-	SLITMASK PUSH BUTTON
28	GND		J57-7	J49-10	SLITMASK ENVIRON.
29	GND		J19-13	J42-6	SLITMASK
30	GND	J40-17/18	J35-8	J36-8	ENCODERS
31	GND	J40-19/20	J37-8	J38-8	ENCODERS
32	GND	J30-17/18	J31-8	J32-8	ENCODERS
33	GND	J30-19/20	J33-8	J34-8	ENCODERS
34	GND		J49-14	J44-8	SLITMASK, GR. CLMPS
35	GND		J44-29	J44-11	GR. CLAMPS
36	GND		-	J44-5	GR. CLAMPS
37	GND		J44-17	J44-14	HATCH
38	GND		J48-5	J44-2	DEW. ION, GR. CLAMPS
39	GND		J55-5	J44-17	FILTER PB, HATCH
40	GND			J49-16	SLITMASK

PINS 1-40 JUMPERED ON TOP

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LICK OBSERVATORY

POWER DISTRIBUTION TERMINAL BOARDS
INSTRUMENT ENCLOSURE
DEIMOS SPECTROGRAPH

REVISION

- 03-12-01 REMOVED CONNECTION FROM TBD-27 TO J49-12
- 08-22-01 MOVED HATCH WIRING TO CTRL 2, ADDED MISSING LABELS
- 08-30-01 CHANGED TILT #1 LABELS TO TILT #5
- 11-19-01 UPDATED SHEET 2
- 02-26-02 CHANGED TILT #5 REFERENCES TO 'SPARE'
- 06-14-02 REMOVED MANUAL PADDLE AND tv FILTER PB REF'S AND CHANGED CASSETTE TO SLITMASK

DES'N BY: T. Ricketts

ORIGIN DATE: 05-26-95

DWG. NO.

NUM. 1 OF 2

DRAWN BY:

MODIFY DATE: 06-14-02

PATH: DEIMOS\TBAE

REV. A

EL-3024

CONTROLLER PANEL 1
TB E 120VAC

TERMINAL	SIGNAL	TO-LEFT	TO-RIGHT
1	SWITCHED 120VAC H	PN1-19	
2	120VAC H	PN1-1	28v PS
3	120VAC H	5v PS	LINE (H)
4	120VAC N	5v PS	LINE (N)
5	120VAC N	AC3 (SCSI->FIBER)	28v PS
6	120VAC N	AC4 (A2S)	J41-2 (FC LED)
7	120VAC N		J52-18
8	120VAC N		COOLING FANS
9	120VAC N	J52-20	TV CONTROLLER
10	SWITCHED 120VAC N	J52-2, 4	J52-10, 12
11	SWITCHED 120VAC N	J52-6, 8	J52-14
12	SWITCHED 120VAC N	J52-16	

PINS 2-3 JUMPERED ON TOP
PINS 4-9 JUMPERED ON TOP
PINS 10-12 JUMPERED ON TOP

CONTROLLER PANEL 2
TB F 120VAC

TERMINAL	SIGNAL	TO-LEFT	TO-RIGHT
1	120VAC H	PN4-41	
2	120VAC H	PN4-1	LINE H
3	120VAC H	5v PS	28v PS
4	120VAC N	5v PS	28v PS
5	120VAC N	J43-10	LINE N
6	120VAC N	J43-20	
7	120VAC N	J42-5	
8	120VAC N	J42-2	
9	120VAC N	J43-16	J43-2
10	120VAC N	J43-8	J43-14
11	120VAC N	J43-4	J43-18
12	120VAC N	J43-6	J43-12

PINS 1-3 JUMPERED ON TOP
PINS 4-12 JUMPERED ON TOP

TB H 120VAC OVERTEMP.

TERMINAL	SIGNAL	TO
1	120VAC H IN	
2	120VAC N IN	
3	120VAC G IN	
4	120VAC H OUT	TBE-1
5	120VAC N OUT	TBE-5
6	120VAC G OUT	
7	RELAY H	PN1-17
8	RELAY L	PN1-18
9	ALERT H	} SONALERT
10	ALERT L	

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REVISION

06-19-97 RE-ARRANGED STAGES
05-11-98 UPDATED TBE & TBF
05-22-01 ENLARGED DRAWING FOR EASIER READABILITY
08-22-01 REMOVED PIN 5 CONNECTIONS TO J41
11-19-01 UPDATED TBE FOR CALIBRATION LAMP INTERLOCK

DES'N BY: T. Ricketts

ORIGIN DATE: 05-26-95

DWG. NO.

NUM. 2 OF 2

DRAWN BY:

MODIFY DATE: 11-19-01

PATH: DEIMOS\TBAE

REV. A

EL-3024