

SERVO MOTOR CONNECTOR		DC MOTOR CONNECTOR				DIGITAL OUTPUT CONTROL				DIGITAL INPUT ASSIGNMENTS				ANALOG INPUT ASSIGNMENTS			
PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION	BIT	FUNCTION	BIT	FUNCTION	BIT	FUNCTION	BIT	FUNCTION	BIT	FUNCTION		
A	MOTOR +	1	MOTOR +	14	MOTOR +	0	-	1	FOCUS FWD SEC. LIMIT	0	-	1	-	1	-		
B	MOTOR -	2	MOTOR +	15	MOTOR +	1	FIDUCIAL ENABLE FOCUS	2	FOCUS REV SEC. LIMIT	2	-	2	-	2	-		
C	GND	3	MOTOR -	16	MOTOR -	2	FIDUCIAL ENABLE RED GRATING	3	-	3	-	3	-	3	-		
D	+5V	4	MOTOR -	17	MOTOR -	3	FIDUCIAL ENABLE BLUE GRATING	4	MODE (MANUAL CTRL BOX)	4	-	4	-	4	-		
E	ENCODER A	5	-	18	-	4	-	5	AXIS SEL 0 " " "	5	-	5	-	5	-		
F	ENCODER B	6	-	19	CALIB	5	-	6	AXIS SEL 1 " " "	6	-	6	-	6	-		
G	GND	7	ENAB IN LIMIT	20	-	6	-	7	FWD/REV " " "	7	-	7	-	7	-		
H	FIDUCIAL ENABLE	8	LED PWR (IN)	21	+5V (IN)	7	-	8	RUN " " "	8	-	8	-	8	-		
J	HOME	9	ENAB CALIB	22	+5V (CAL)												
K	GND	10	LED PWR (CAL)	23	GND (IN)												
L	FWD LIMIT	11	IN	24	GND (CAL)												
M	REV LIMIT	12	-	25	GND (OUT)												
N	FWD SEC. LIMIT	13	OUT														
P	REV SEC. LIMIT																
R	GND																
S	BRK OFF 110VAC H																
T	BRK OFF 110VAC N																

MOTOR ASSIGNMENTS

CHANNEL	FUNCTION
X	SPECTROGRAPH FOCUS
Y	RED GRATING
Z	BLUE GRATING
W	

ADDR	BIT	FUNCTION	ADDR	BIT	FUNCTION	ADDR	BIT	FUNCTION
0	0	RED ARM IN/OUT	1	0	FPOS0	3	0	-
	1	BLUE ARM IN/OUT		1	FPOS1		1	-
	2	ENABLE2 (FILTER SLIDE)		2	FPOS2		2	-
	3	LIM SELECT (NORMAL/CALIBRATE)		3	FILFWDLIM		3	RED GRATING FWD SEC. LIMIT
	4	ENABLE1 (PICK-OFF ARMS)		4	FILREVLIM		4	RED GRATING REV SEC. LIMIT
	5	FSEL0		5	XFEROPTICRED		5	BLUE GRATING FWD SEC. LIMIT
	6	FSEL1		6	XFEROPTICBLUE		6	BLUE GRATING REV SEC. LIMIT
	7	FSEL2		7	-		7	-
2	0	RED ARM OUT	2	0	RED ARM OUT			
	1	RED ARM IN		1	RED ARM IN			
	2	RED ARM CALIBRATE		2	RED ARM CALIBRATE			
	3	BLUE ARM OUT		3	BLUE ARM OUT			
	4	BLUE ARM IN		4	BLUE ARM IN			
	5	BLUE ARM CALIBRATE		5	BLUE ARM CALIBRATE			
	6	-		6	-			
	7	-		7	-			

REVISION
4/29/94 CHANGED SENSE OF ARM SIGNAL
2/16/99 REDRAWN IN ACCEL EDA (V14)

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		SIGNAL ASSIGNMENTS MOTOR CONTROLLER #2 MULTI OBJECT SPECTROGRAPH	
DES'N BY: T. Ricketts	ORIGIN DATE: 5/27/93	DWG. NO.	NUM. OF 1
Last SN:	MODIFY DATE: 2/16/99	EL-1169-1D - B	
PATH: AMOS/CONN2			