

PRIME FOCUS
SERVO MOTOR CONNECTOR

| PIN | FUNCTION | PIN | FUNCTION |
|-----|---------------|-----|-------------|
| 1 | — | 14 | — |
| 2 | — | 15 | GND (VRET) |
| 3 | FWD SEC LIMIT | 16 | GND (VRET) |
| 4 | REV SEC LIMIT | 17 | GND (LIM) |
| 5 | FWD PRI LIMIT | 18 | GND (LIM) |
| 6 | REV PRI LIMIT | 19 | FID. ENABLE |
| 7 | +5V (ISOL) | 20 | +5V (FIDUC) |
| 8 | FIDUCIAL | 21 | GND (FIDUC) |
| 9 | ENCODER A | 22 | +5V (ENC) |
| 10 | GND (ENC) | 23 | GND (ENC) |
| 11 | GND (ENC) | 24 | GND (ENC) |
| 12 | +5V (ENC) | 25 | ENCODER B |
| 13 | +5V (ENC) | | |

ADC
SERVO MOTOR CONNECTOR

| PIN | FUNCTION | PIN | FUNCTION |
|-----|------------|-----|-------------|
| 1 | MOTOR + | 14 | MOTOR + |
| 2 | MOTOR + | 15 | MOTOR + |
| 3 | MOTOR + | 16 | MOTOR - |
| 4 | MOTOR - | 17 | MOTOR - |
| 5 | MOTOR - | 18 | MOTOR - |
| 6 | — | 19 | — |
| 7 | +5V (ISOL) | 20 | +5V (FIDUC) |
| 8 | FIDUCIAL | 21 | GND (FIDUC) |
| 9 | ENCODER A | 22 | +5V (ENC) |
| 10 | GND (ENC) | 23 | GND (ENC) |
| 11 | GND (ENC) | 24 | GND (ENC) |
| 12 | +5V (ENC) | 25 | ENCODER B |
| 13 | +5V (ENC) | | |

DIGITAL
OUTPUT CONTROL

| BIT | FUNCTION |
|-----|-------------------------------|
| 0 | BRAKE OFF (PRIME FOCUS) |
| 1 | FIDUCIAL ENABLE (PRIME FOCUS) |
| 2 | FIDUCIAL ENABLE (ADC #1) |
| 3 | FIDUCIAL ENABLE (ADC #2) |
| 4 | CALIBRATION LAMP ON (QUARTZ) |
| 5 | CALIBRATION LAMP ON (NEON) |
| 6 | CALIBRATION LAMP ON (HELIUM) |
| 7 | CALIBRATION LAMP ON (MERCURY) |

ANALOG
INPUT ASSIGNMENTS

| BIT | FUNCTION |
|-----|----------|
| 0 | — |
| 1 | — |
| 2 | — |
| 3 | — |
| 4 | — |
| 5 | — |
| 6 | — |
| 7 | — |

MOTOR ASSIGNMENTS

| CHANNEL | FUNCTION |
|---------|-------------|
| X | PRIME FOCUS |
| Y | ADC #1 |
| Z | ADC #2 |
| W | |

DIGITAL
INPUT ASSIGNMENTS

| BIT | FUNCTION |
|-----|------------------------|
| 1 | FWD SECONDARY LIMIT |
| 2 | REV SECONDARY LIMIT |
| 3 | — |
| 4 | MODE (MANUAL CTRL BOX) |
| 5 | AXIS SEL 0 " " " |
| 6 | AXIS SEL 1 " " " |
| 7 | FWD/REV " " " |
| 8 | RUN " " " |

UNIVERSITY OF CALIFORNIA
LICK OBSERVATORY

SIGNAL ASSIGNMENTS
MOTOR CONTROLLER #1
MULTI OBJECT SPECTROGRAPH

REVISION

11/10/94 CHANGED CALIBRATION LAMP SENSE, ADDED MODE INPUT
2/16/99 REDRAWN IN ACCEL EDA (V14)

DES'N BY: T. Ricketts

ORIGIN DATE: 5/7/93

DWG. NO.

NUM. 1 OF 1

Last SN:

MODIFY DATE: 2/16/99

PATH: AMOS/CONN1

REV. B

EL-1169-1D - A