Relay Board Main Connector Pinouts

D-sub 25 male

(connect with straight–through cable to corresponding D–sub 25 female connector on control box)

D-sub 15 female

(connect with straight–through cable to corresponding D–sub 15 male connector on drive box)

		8 0	az limit common
counterclockwise az limit	/ ○15		
		7 O	clockwise az limit
ground	0 14		
_		6 O	ground
drives enable	○ 13		
		5 O	drives enable
ground	O 12		
		4 🔾	ground
24v (to HV aux)	O 11		
		3 O	24v (to HV aux)
ground	○ 10		
		2 O	ground
24v (to el brake)	○9		
		10	24v (to az brake)
		/	

- clockwise az limit (7) and counterclockwise az limit (15) are connected to az limit common (8) through normally-closed switches
- drives enable pins (5, 13) are connected through relay contacts which are closed when the main drives transformer power relay is latched
- power to brakes (1, 9) is shut off and on in synchronization with main drives transformer power

wrap potentiometer wiper	● 13	
	25 ●	wrap potentiometer
wrap potentiometer	● 12	
	24 ●	drives power on/off
drives power latch	• 11	
az brake current sense	23 ●	el brake current sense
az biake current sense	22 •	electronics power on/off
ADC 4 (LM35 temp.)	• 9	Cicotrollico power oliven
()	21 ●	ADC 3 (LM35 temp.)
ADC 2 (LM35 temp.)	● 8	
	20 ●	ADC 1 (LM35 temp.)
float switch	• 7	_
	19 ●	ground
ground	● 6	Ev (logio concers)
5v (logic, sensors)	• 5	5v (logic, sensors)
ov (logic, selisois)	17 •	ground
ground	• 4	9.04
•	16 ●	24v (to HV aux)
24v (to HV aux)	● 3	
	15 ●	ground
ground	• 2	
Odv. (volev. be and bustess)	14 • /	24v (relay board, brakes)
24v (relay board, brakes)	• 1	

- wrap potentiometer is wired to relay board such that resistance between wiper (13) and side (25) increases when azimuth rotates clockwise
- main drives transformer power is latched by holding drives power on/off (24) logic high while pulsing drives power latch (11) logic low-high-low
- pins 1, 3, 5, 11, 14, 16, 18, and 24 are power and control signals from the control box. Pins 7, 8, 9, 10, 12, 13, 20, 21, 22, 23, and 25 are logic and sensor signals returning to the control box