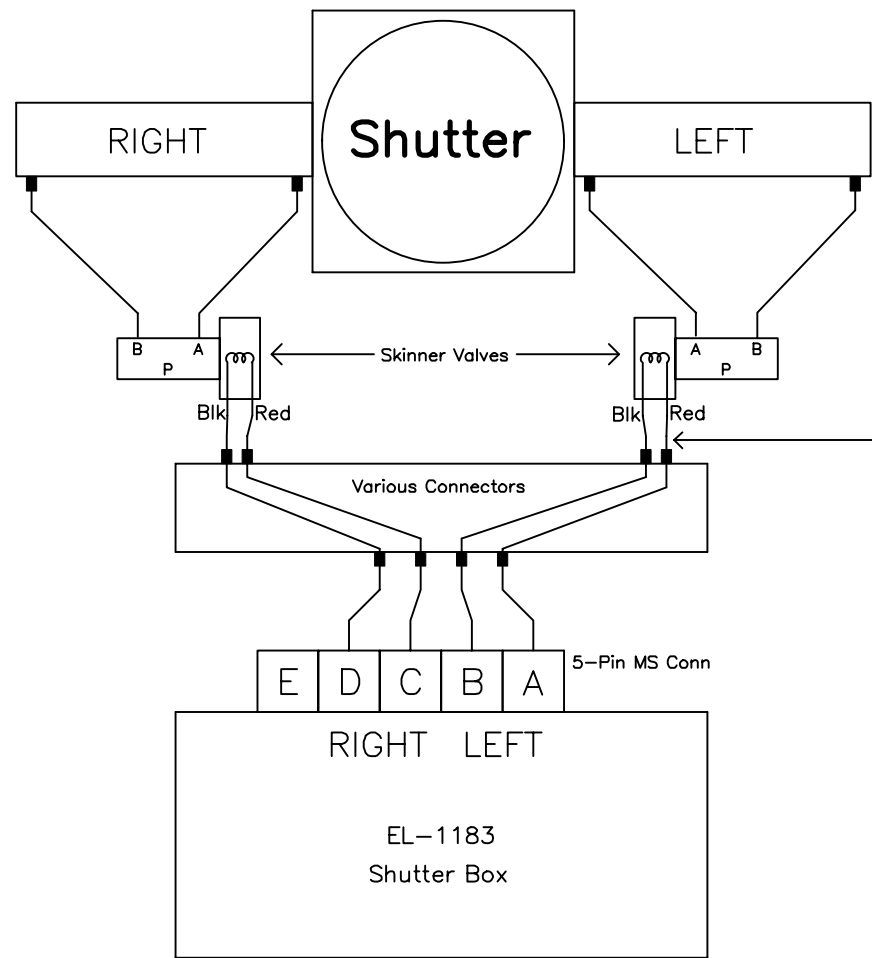


* DIAGNOSTIC SIGNALS;
NOT USED BY CONTROLLER

REVISION

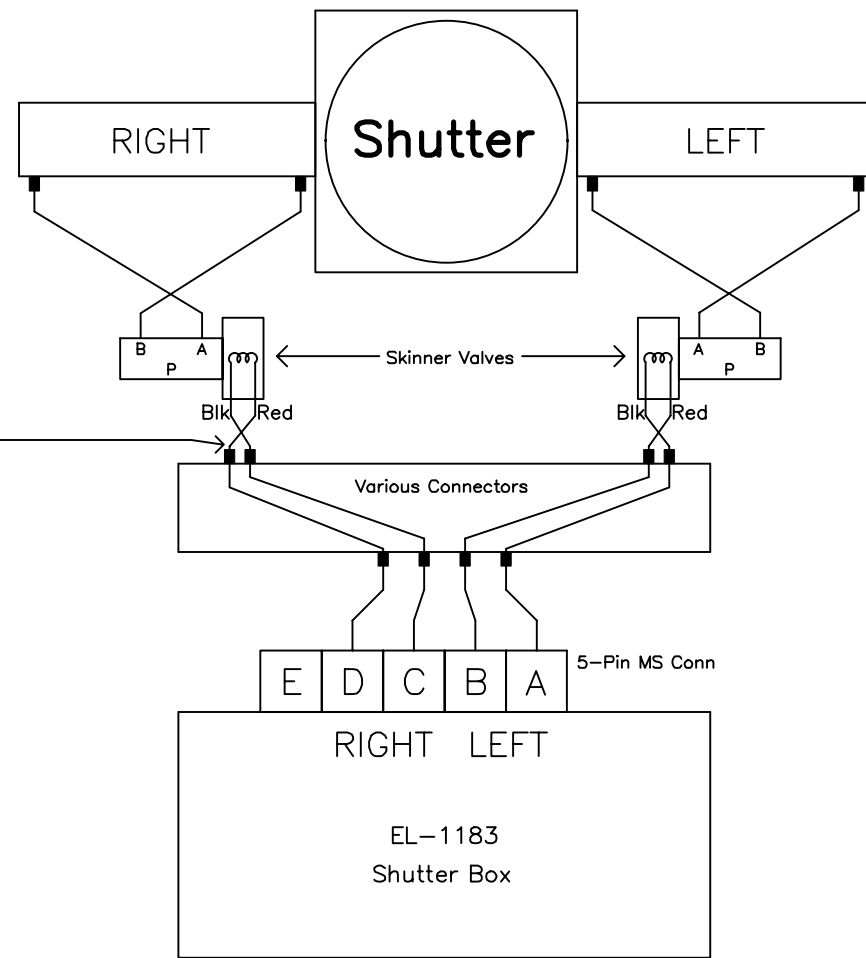
09 Apr 96 Added One-shot to limit solenoid *on-time* to 200mS.
 16 Apr 96 Added *left-only/right-only* switch and EPLD gates.
 03 Jul 97 Added 74LS541 output buffer and 100uF cap.
 15 Jul 97 Changed 10 pin IDC to DB15S. 5v filter cap to 1uF.

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		SHUTTER CONTROLLER General Purpose	
DES'N BY: T. Cantrall	ORIGIN DATE: 07-19-95	DWG. NO.	NUM. 1 OF 2
Last SN	MODIFY DATE: 07-24-97	EL-1183-2S	
PATH: MULTIPURPOSE\EL-1183\EL-1183			



Old Connections

Plus voltage on RED wire will apply air to the 'A' port of the Skinner Valve.



New Connections

The problem with the old way of connecting the Skinner Valves is that sometimes, when air is applied, the shutter blades will both close, jamming them together. Although the valve "remembers" it's last position, the memory device only becomes effective after a certain pressure threshold. Before that point, an internal spring holds the air shuttle so that air comes out of the 'B' port. In the old system, that would move the blades inward, towards each other. By plumbing the 'B' port to the 'OPEN' end of the air cylinder, (the end closest to the shutter opening) the stray air will push the shutter blades apart. Since the air connections have been reversed, the electrical connections must also be reversed.

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		SHUTTER CONTROLLER General Purpose	
DES'N BY: T. Cantrall	ORIGIN DATE: 07-19-95	DWG. NO.	NUM. 2 OF 2
Last SN	MODIFY DATE: 07-23-97	EL-1183-2S	
PATH: \MULTIPURPOSE\EL-1183\EL-1183			

REVISION