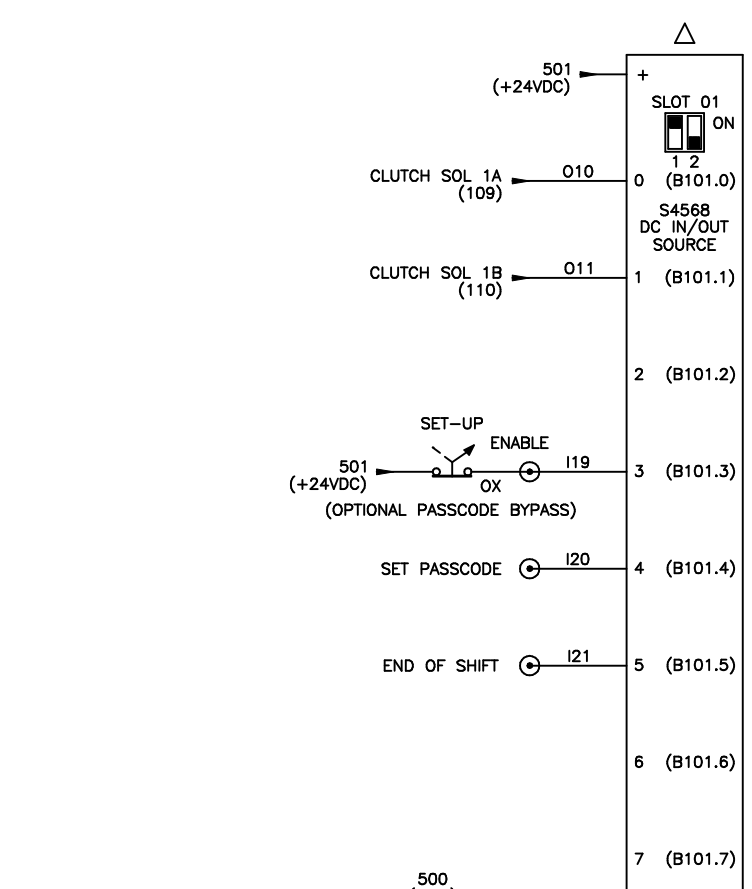
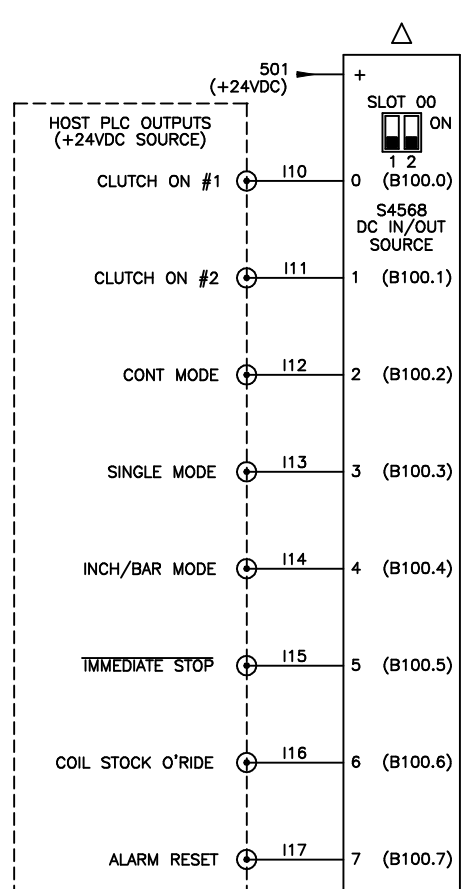


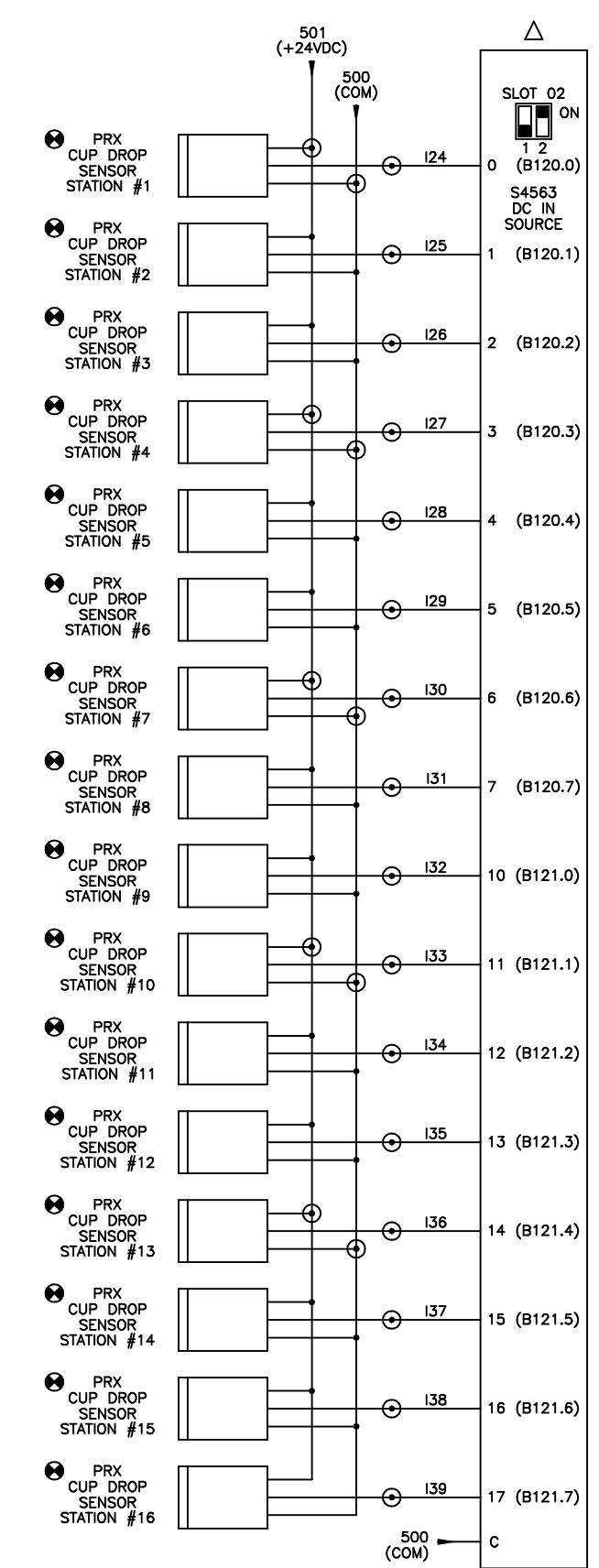
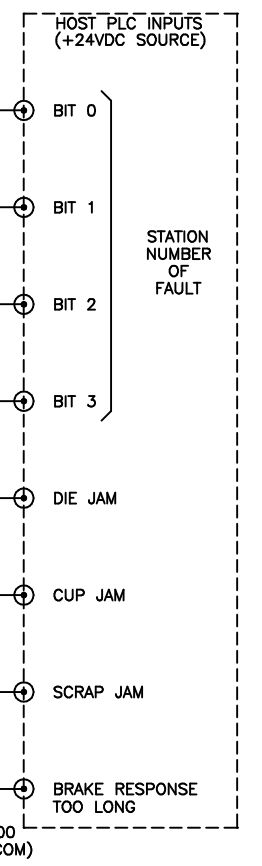
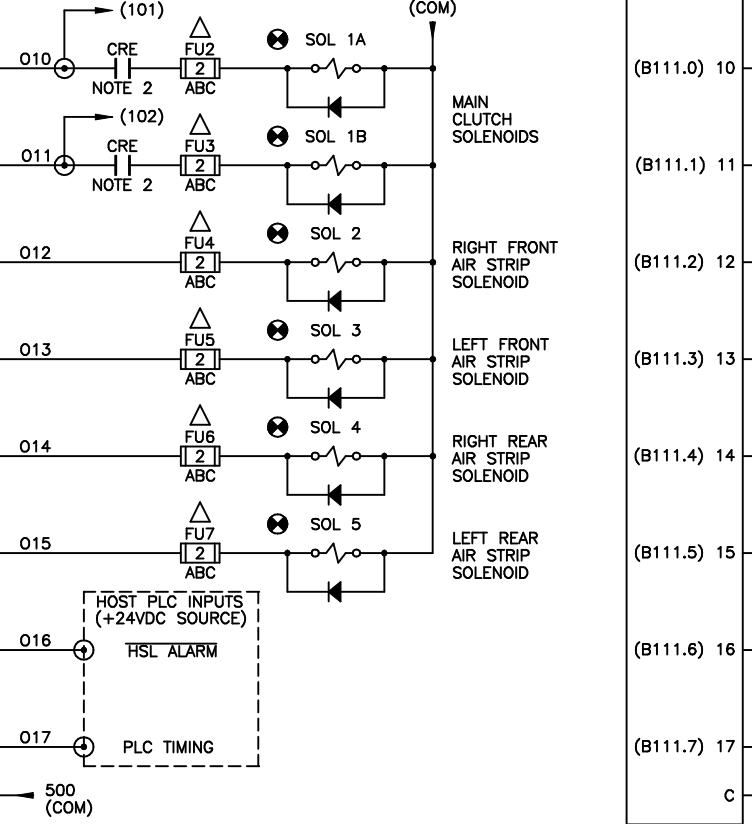
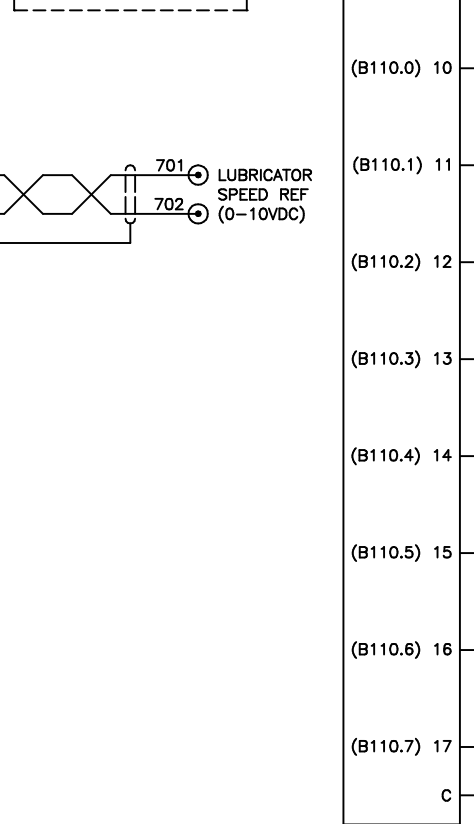
NOTE 1:

- (1) FOR SEG RSV34-MS1 RESOLVER, JUMPER R0 TO R1 ON RESOLVER INPUT.
- (2) FOR AUTOTECH RESOLVERS, INSTALL 47ohm, 1/2W RESISTOR BETWEEN R0 AND R1 ON RESOLVER INPUT.



STATION NUMBER OF FAULT DECODE:

B3	B2	B1	B0	STATION NUMBER
0	0	0	0	1
0	0	0	1	2
0	0	1	0	3
0	0	1	1	4
0	1	0	0	5
0	1	0	1	6
0	1	1	0	7
0	1	1	1	8
1	0	0	0	9
1	0	0	1	10
1	0	1	0	11
1	0	1	1	12
1	1	0	0	13
1	1	0	1	14
1	1	1	0	15
1	1	1	1	16



HSL ALARM SUMMATION:

- 1) COIL STOCK O'RIDE MODE FAULT
- 2) TIMING SIGNAL FAIL
- 3) CLUTCH OUTPUT NO.1 FAIL
- 4) CLUTCH OUTPUT NO.2 FAIL
- 5) NO RAM MOTION DETECTED
- 6) RESOLVER FAULT (MOTION DETECTED WHEN STOPPED)

NOTE 2:

IMPORTANT SAFETY WARNING!
 THE HSL-CUP4 IS INTENDED AS A HIGH-SPEED LOGIC GATE TO PROVIDE CONSISTENT AND ACCURATE CLUTCH CONTROL. IT IS NOT DESIGNED AS A REDUNDANT, DUAL-PROCESSOR CLUTCH BRAKE SAFETY MODULE.

THE HSL-CUP4 MUST NOT BE THE ONLY MEANS OF CONTROLLING THE CUPPER CLUTCH MECHANISM. GOOD DESIGN PRACTICE DICTATES THE USE OF SAFETY INTERLOCKS ON ANY DEVICE THAT STARTS OR STOPS AUTOMATICALLY THAT CAN CAUSE PERSONNEL INJURY TO OPERATING OR MAINTENANCE PERSONNEL.

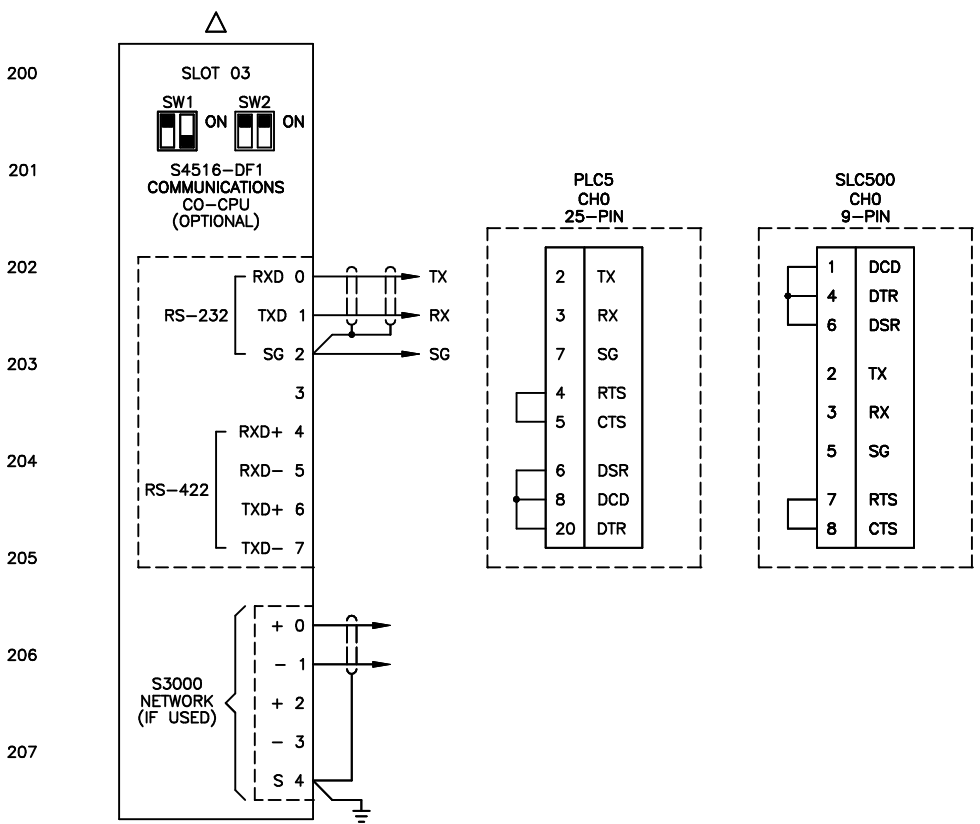
THE HSL-CUP4 MUST BE USED ONLY IN CONJUNCTION WITH INDUSTRY APPROVED SAFETY INTERLOCK CONTACTS, IMPLEMENTED IN ACCORDANCE WITH ANSI B11.1 SAFETY REQUIREMENTS; OTHERWISE, SERIOUS PERSONNEL INJURY MAY RESULT.

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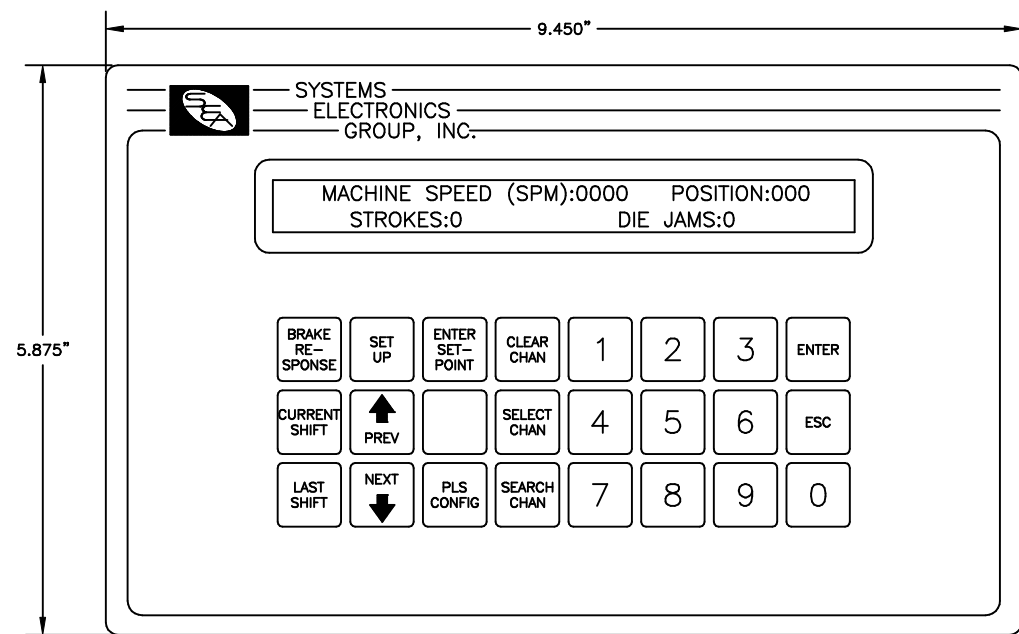
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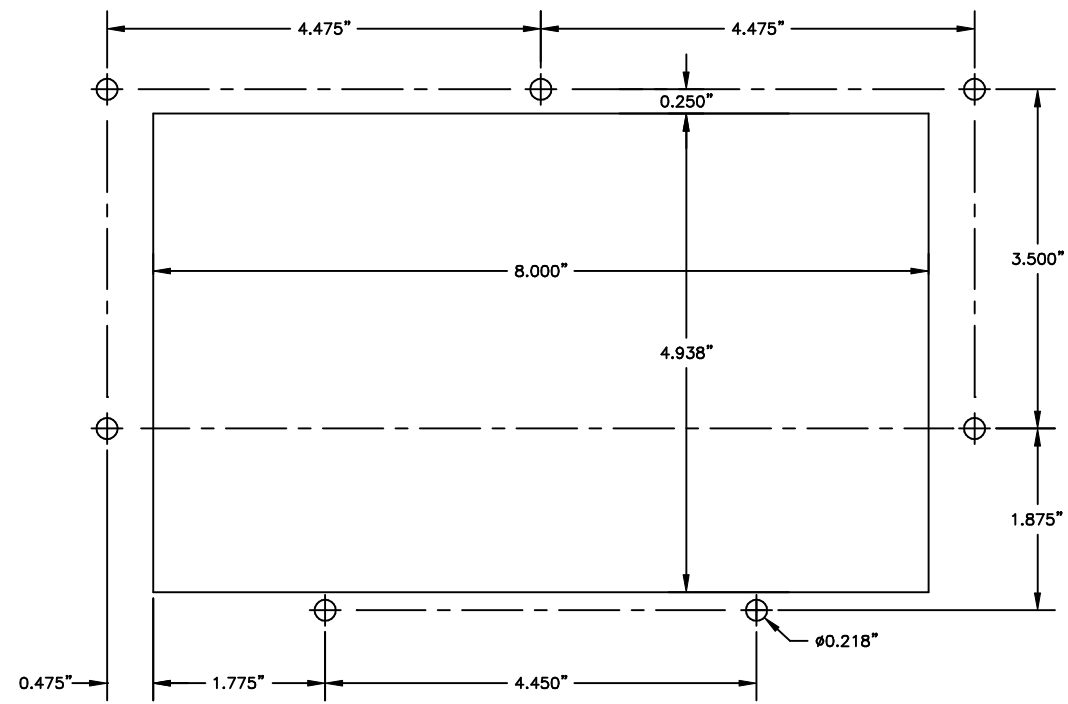
SCALE: _____ APPROVED: _____ DRAWN BY: KDV
 DATE: 4-7-99 HSL-CUP4 REVISIONS: 2-23-04
 ELECTRICAL CONTROL SCHEMATIC WO# _____
 SYSTEMS ELECTRONICS GROUP PT# _____
 DRAWING NUMBER 14-4103-10



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	SCALE:	APPROVED:	DRAWN BY: KDV
	DATE: 4-7-99		REVISED: 2-23-04
	HSL-CUP4 ELECTRICAL CONTROL SCHEMATIC		WO#
	SYSTEMS ELECTRONICS GROUP		PT#
		DRAWING NUMBER	
		14-4103-10	



HSL-CUP4 KEYPAD DISPLAY



RECOMMENDED PANEL CUT-OUT



HSL-CUP4 PREWIRED BACK PANEL

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	SCALE: AS NOTED	APPROVED:	REVISED: 3-8-04
	DATE: 2-19-04	HSL-CUP4 MECHANICAL LAYOUT	
	SYSTEMS ELECTRONICS GROUP		WO# PT# DRAWING NUMBER 14-4103-15