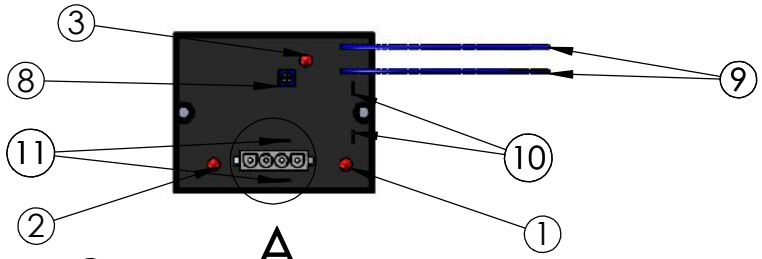
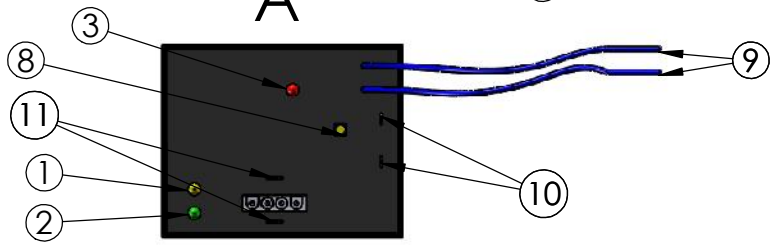
Ref #	Description
1	Close Output Indicator
2	Open Output Indicator
3	Setpoint Indicator
4	Red, 12v Continuous
5	Blue, 12v, Open Signal
6	Orange, 12v, Close Signal
7	White, Ground
8	Potentiometer
9	Open Limit Terminals, Normally Closed
10	Auto Reopn Null Switch, Normally Closed
11	Motor Lead Terminals, 1/4" Spade
12	Fuse, 25 AMP
13	Ground, Secondary
14	Close Signal Input Indicator
15	Open Signal Input Indicator

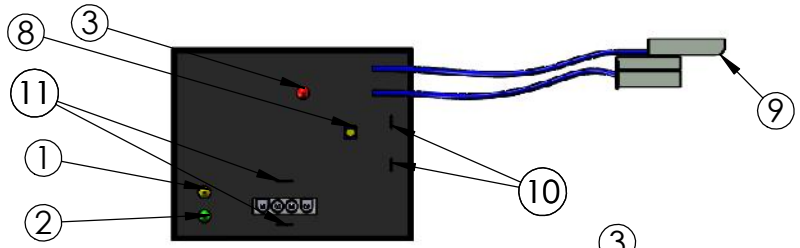


3230

A



3131



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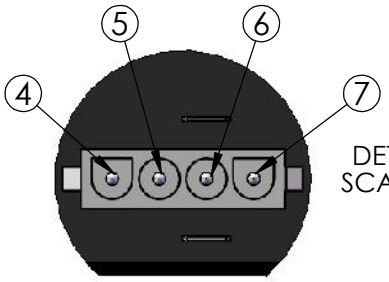
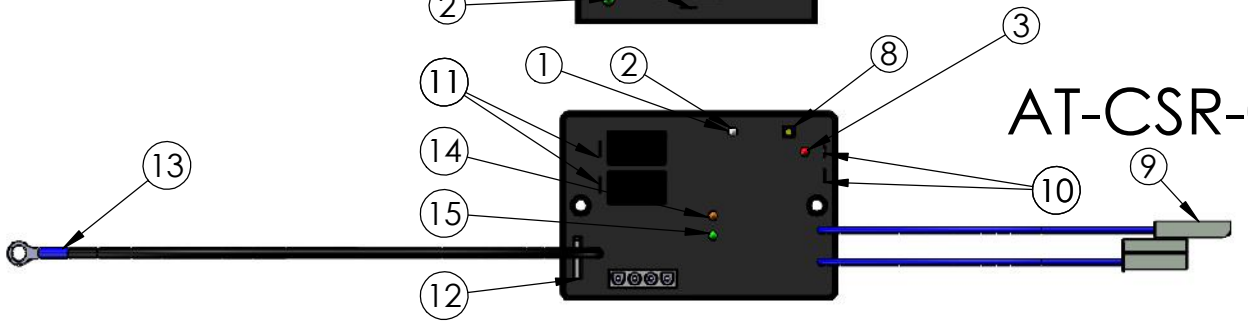


DETAIL A
SCALE 1 : 1

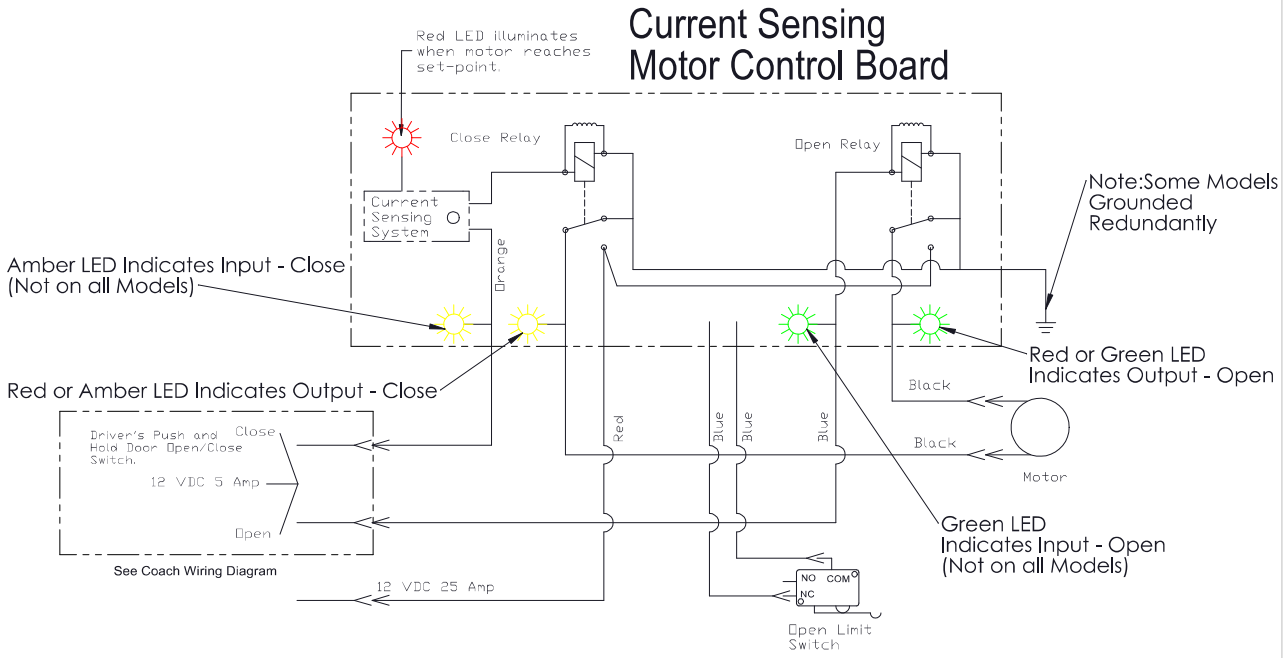
(Same for all PC Boards)



AT-CSR-040

NEXT ASSY.:						A&M SYSTEMS Incorporated
SUPERSEDES:						TITLE: ALL PC Boards Description
DO NOT SCALE DRAWING			RELEASE TO PRODUCTION			
	REV.	BY	DATE	DESCRIPTION		MAT'L SPEC.
THIS DRAWING IS THE PROPERTY OF A&M SYSTEMS, INC. AND IS NOT TO BE DUPLICATED OR USED IN ANY WAY DETRIMENTAL TO THEIR BEST INTEREST.	TOLERANCE UNLESS SPECIFIED Fractions: +/- 1/32 Decimals: .000 +/- .005 Angles: +/- 1 Deg.			DRAWING INFORMATION DRAWN: bmiller CKD.: DATE: 8/21/2012 SIZE: A SCALE: 1:3 WT.:		PART NUMBER / PAGE 1 OF 1

WARNING: This Control Board is designed and warranted for A&M Systems, Inc. engineered installations only. Installing this PC Board onto a non A&M Systems product may cause a hazardous condition. A&M Systems will not be liable for damages or injuries caused by the installation of this PC Board into non-A&M Systems Products.



NEXT ASSY.:						A&M SYSTEMS Incorporated
SUPERSEDES:						TITLE
DO NOT SCALE DRAWING			RELEASE TO PRODUCTION			PC Board Simplified Schematic
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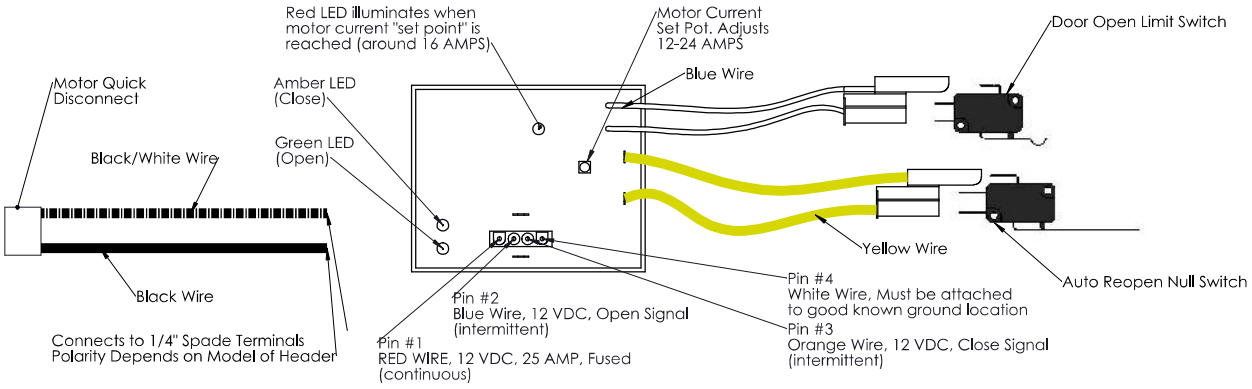
	Fractions: +/- 1/32		DRAWN: bmiller	CKD.:		PAGE 1 OF 1
	Decimals: .000 +/- .005		DATE: 8/21/2012	SIZE: A		
	Angles: +/- 1 Deg.		SCALE: 1:12	WT.:		



System Function

1) A 12 VDC power source is applied continously to Pin #1

2) A ground signal is applied continuously to PIN #4

3) An intermittant 12 VDC signal is applied to Pin #2 from the coach door "OPEN" control switch
   a) The green LED illuminates verifying that the 12 VDC is received from the coach door switch and the PC Board has sent power to the motor to "OPEN" the door.
   b) The motor is turned off at the end of the "OPEN" cycle by the open limit switch.
   c) If the door "feels" an obstruction during the open cycle, the door stops and the red LED illuminates. The operator must clear the obstruction, and press the door "CLOSE" to reset the setpoint. Once this is done, the operator may open the door again.

4) An intermittant 12 VDC signal is applied to Pin #3 from the coach door "CLOSE" control switch
   a) The amber LED illuminates verifying that the 12 VDC is received from the coach door switch and the PC Board has sent power to the motor to "CLOSE" the door.
   b) The motor is turned off at the end of the "CLOSE" cycle by the current sensing system.
   c) At approximately 85 deg of close the NULL switch is activated to disable the auto re-open function.

5) If the door "feels" an obstruction during the close cycle, the door automatically open fully and the red LED is illuminated indicating the motor is turned off.

6) The red LED turn off after 15 seconds of illumination eliminate any parasitic drain.

NEXT ASSY.:						A&M SYSTEMS Incorporated
SUPERSEDES:						TITLE
DO NOT SCALE DRAWING			RELEASE TO PRODUCTION			PC Board Function
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	Fractions: +/- 1/32		DRAWN: bmiller	CKD.:		PAGE 2 OF 2
	Decimals: .000 +/- .005		DATE: 2/19/2008	SIZE: E		
	Angles: +/- 1 Deg.		SCALE: 2:1	WT.:		