Welcome To A&M Systems, Inc.





The Industry Leader in Bus Doors and Actuators

4121 Eastland Drive

Elkhart, IN 46516

Ph: 574-522-5000

Fx: 574-522-9099

Web: www.anmsystems.com



95+ Different Actuator Models

350+ Different Door Models
1,000s of Options

Even if we didn't build it, we can probably replace it.



Model 3556 Control Board





Model AT-CSR-040 Control Board





Ref#	Description	3	
1	Close Output Indicator	(8)	9 0000
2	Open Output Indicator		3230
3	Setpoint Indicator	(11)	10)
4	Red, 12v Continuous	2	
5	Blue, 12v, Open Signal	3 A	U
6	Orange, 12v, Close Signal	8	
7	White, Ground		9
8	Potentiometer		3131
9	Open Limit Terminals, Normally Closed	U month	10)
10	Auto Reopn Null Switch, Normally Closed	2	<u> </u>
11	Motor Lead Terminals, 1/4" Spade		
12	Fuse, 15 AMP	8 3	
13	Ground, Secondary		
14	Close Signal Input Indicator		9 2222
15	Open Signal Input Indicator	0	⁽⁹⁾ 3333
(San	DETAIL A SCALE 1:1	2 11 14 15	AT-CSR-040
models ncluding the boards is	PLEASE NOTE: s models 3556 and AT-CSR-040 are current production and can replace all previous models of PC Boards hose listed below. The function of the aforementioned similar. These two models can also be interchanged. 3056 3131 3137 3149 3185 3193 3198 3230 333		3556
OC00084	, PC Board Description (Last 5 Models)	2/27/2015	NOT CONTROLLED IF PRINTED



Common Maintenance



Doors Only Open or Close Part Way

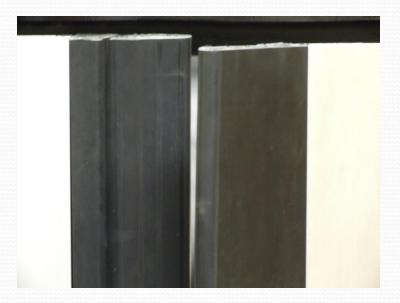
- Rotate the emergency release lever and manually push doors open close to make sure there is no resistance in the door movement, repair as required.
- Re-engage emergency release lever and actuate the doors electrically. When the door stops, does the red LED illuminate? If yes, then increase the PC board set point by turning the adjusting pot clockwise ¼ turn.
- Actuate doors electrically and insure proper operation.





Center Seal Sticks Together in Hot Weather

- Thoroughly clean the seal with a mild detergent and dry. Apply a light coat of clear floor wax and let dry completely before closing the door.
- Doors built after October, 2010 are made using TPV center seal and therefore should never stick together.





Slop in Doors

- Check the tightness of setscrew in the actuator arms. Tighten or replace as required.
- Replace actuator arm on actuator and/or torque arm on door if excessive wear is noted.



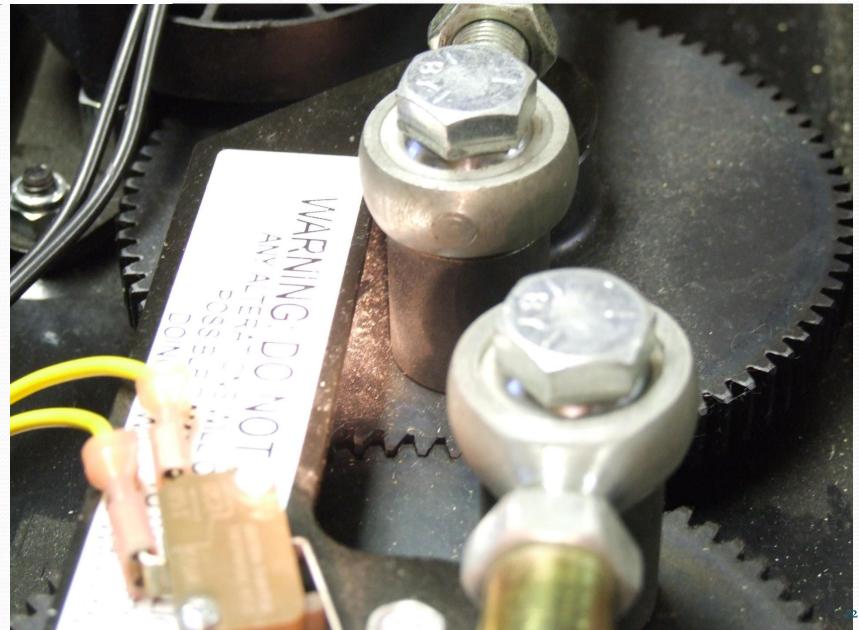


Open Limit Switch Does Not Function

- Electrically open doors and inspect the distance between the forward push-pull rod spacer and the gear stabilizer.
- Replace micro switch as required making sure the terminals are installed on the "NC", normally closed set of wire terminals.
- Electrically open doors and inspect the distance between the forward push-pull rod spacer and the gear stabilizer.
- That distance should be 1/8". Move switch tab until 1/8" distance is obtained. Moving the switch tab toward the drive gears increases the distance between the gear stabilized and the push rod spacer.



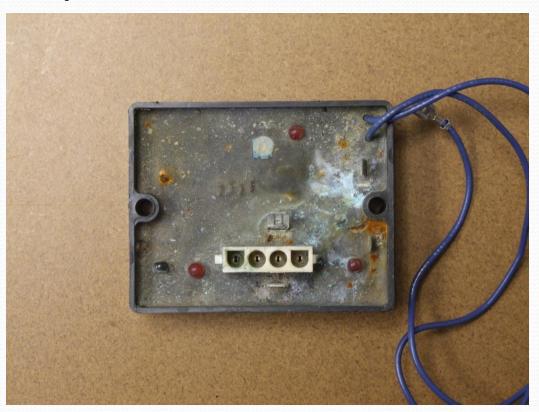






PC Board Corrosion

- If the PC board shows signs of corrosion (green residue or rust) on the top of the board there is a water leak somewhere.
- Repair water leak and replace board.





Other intermittent or odd problems

- Does the coach have an external key switch? If so, disconnect for troubleshooting. Sometimes as key switches age the contacts deteriorate allowing voltages to backflow causing PC board the fail.
- Make sure the system ground is intact. All system grounding is through the white wire from the PC board. The motor frame is isolated from ground.



Overuse of the Manual Release

• The Manual Release Lever is for **EMERGENCY** use and is not intended for repeated usage.





Overuse of the Manual Release

• The Manual Release Lever is for **EMERGENCY** use and is not intended for repeated operation.





Updated Manual Release Built-in Stop to Reduce Overextension







Ratcheting Sound Coming From the Motor Drive

Inspect motor and main drive gears for damaged or missing teeth.



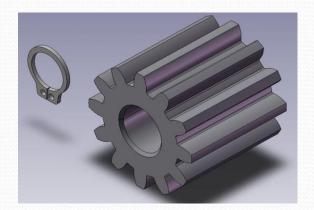


Ratcheting Sound Coming From the Motor Drive

Inspect motor and main drive gears for damaged or missing teeth.



P/N K9049





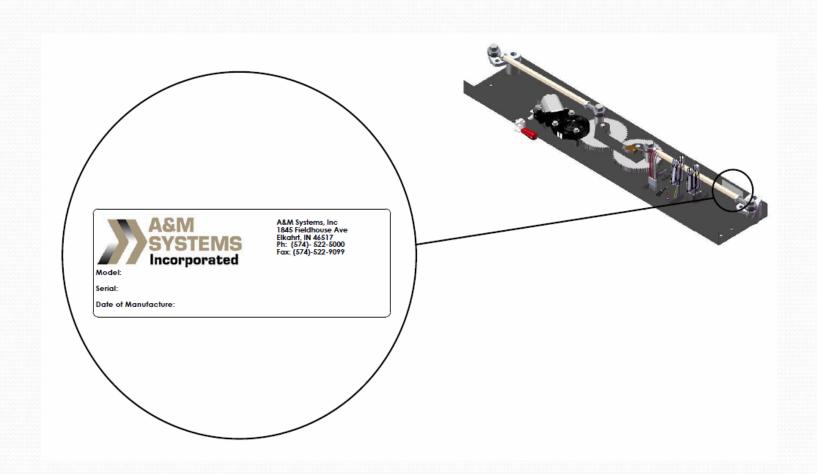
2014 and Newer A&M Motor

With Hardened Pinion Gear



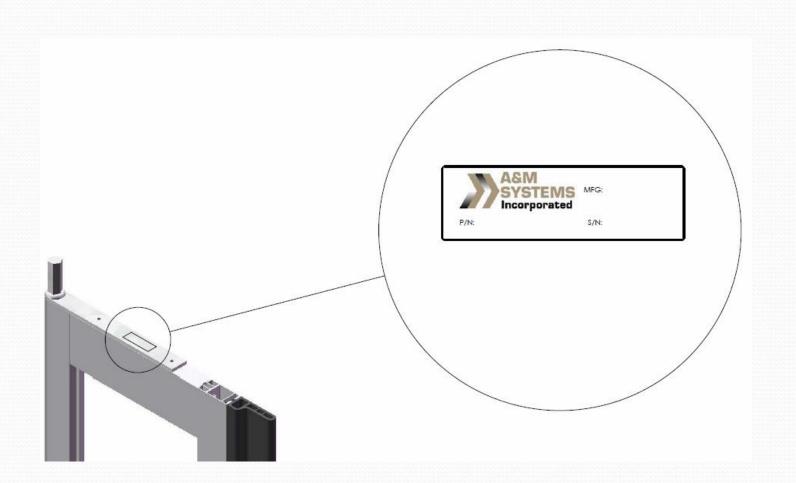


How To Identify Our Products - Headers





How To Identify Our Products - Doors





PROGRAMMING INSTRUCTIONS FOR THE A&M TOUCH PAD OPENING SYSTEM

Note: All Touch Pads are programmed to the number 1845 as the factory code. To change code:

- 1. Enter the number sequence: 1 8 4 5 for a new unit or the last code on a previously changed unit.
- 2. Press the following numbers: 3/4 5/6 7/8.
- 3. Press 3/4 and 7/8 simultaneously; the back lighting will blink three times.
- 4. Enter your new four-digit code; the back lighting will blink four times.
- 5. Enter your new four-digit code followed by <1/2> to OPEN or > 9/0< to CLOSE the doors.

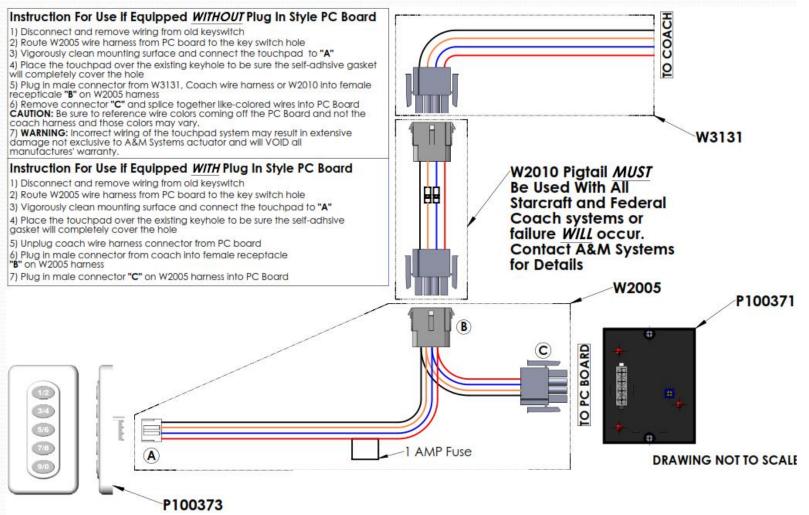
If an error is made during reprogramming you must wait until the back lighting extinguishes before trying to reprogram.

PLEASE NOTE THAT IF THE LAST CODE IS NOT KNOWN REPROGRAMMING IS NOT POSSIBLE.





Easy Plug and Play Installation and Removal





SERVING THE BUS TRANSPORTATION INDUSTRY

PROGRAMMING INSTRUCTIONS FOR THE WHITE A&M PROGRAMMABLE REMOTE

- Be sure that the receiver (P/N P100536) is plugged-in correctly as shown in DOC00034.
- 2. Place a soft, non-metallic object into the learning port of the receiver and press the learning button 1 time. The RED LED on the receiver will illuminate.
- 3. With the RED LED illuminated, press a button on the key FOB that you would like to program.
- 4. If the FOB was paired with the receiver, an audible beep will be heard, the RED LED in the receiver will flash briefly, and then turn off.
- 5. Test both open and close on the FOB, the pair should be complete. When a signal is received from the FOB, the RED LED on the receiver will illuminate and an audible beep will be heard.
- 6. Repeat steps 2-5 to pair up to 15 FOBs to a single receiver. Any single FOB can be paired to multiple receivers.
- 7. If at any time you would like to reset or remove a FOB from service, press and hold the learning button on the receiver for about 10 seconds and the RED LED turns off. Note: This will eliminate all learned codes in the receiver. Any FOBs that you would like to use after this point will need to be paired again using the proper steps outlined above.



K9102 – Single Key FOB System K9103 – Dual Key FOB System P100537 – Extra FOB

Also Useful for Troubleshooting Issues with a limited Maintenance Personnel

 Gives the ability to operate the door input signals and still see the diagnostic LEDs



Easy Plug and Play Installation and Removal

