

Safety Defect and Noncompliance Report Guide for Equipment

PART 573 Defect and Noncompliance Report

Date: August 15, 2013

This report serves as [insert reporting party’s name]’s notification to the U.S. Department of Transportation, National Highway Traffic Safety Administration that a [insert as applicable: “defect related to motor vehicle safety” or “noncompliance with Federal Motor Vehicle Safety Standards”] exists in certain [identify the equipment at issue]. [Manufacturer] decided that this [insert “defect” or “noncompliance,” as applicable] existed in these vehicles on [insert date].

I. Manufacturer, Designated Agent, and Other Chain of Distribution Information

Manufacturer’s corporate name: A&M Systems, Inc.

Equipment’s brand or trademark name owner(s) (where applicable):

Designated Agent (imported equipment):

If this notification concerns equipment that was installed in new motor vehicles or new items of motor vehicle equipment, identify by name, address, and telephone number each vehicle manufacturer and equipment manufacturer who purchased that equipment: See Addendum 1

If this notification concerns a defective or noncompliant component that the above identified manufacturer did not manufacture, identify that component and provide the name, address, and phone number of the manufacturer of the component (if this manufacturer is unknown, provide this information as to the supplier of the component): Polytron Corp, 4400 Wyland Drive, Elkhart, IN 46517, 574-522-0246.

Name, address, email, and phone and fax numbers for the person(s) to whom inquiries about this report should be directed:

James C. Miller, jimm@anmsystems.com, 574-522-5000 ext. 12, 574-522-9099

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Manufacturer's assigned campaign number (where applicable):

II. Identification of the Recall Population and Its Size

Complete the tables below for each item of equipment subject to this notification. Additional tables may be necessary where there are more than three items subject to a notification.

Type of equipment (e.g., tire, child restraint, headlamp): Electric Door Actuator
Part/Model number: See Addendum 2
Size and function (where applicable):
Inclusive dates of manufacture (month and year): August 1, 2009 through March 31, 2010
Total number of these items of equipment: 5,530

Type of equipment (e.g., tire, child restraint, headlamp):
Part/Model number:
Size and function (where applicable):
Inclusive dates of manufacture (month and year):
Other information necessary to describe this equipment:
Total number of these items of equipment:

Type of equipment (e.g., tire, child restraint, headlamp):
Part/Model number:
Size and function (where applicable):
Inclusive dates of manufacture (month and year):
Other information necessary to describe this equipment:
Total number of these items of equipment:

Provide the following information as to all the items of equipment (“the recall population”) identified above:

Grand total number of items of equipment in the recall population: 5,530

The percentage of the recall population you estimate actually contain the defect or noncompliance: 100%

Identify and describe how the recall population was determined (e.g., on what basis the recalled models were selected and how the inclusive dates of manufacture were determined):

The model 3230 PC Board is the only model to experience thermal problems. It was only used between August 1, 2009 and March 31, 2010.

Describe how the recall population is different from any similar items of equipment not subject to this notification: The style of electrical components soldered into the assembly; surface mounted vs. thru-wire soldered. Additionally, the board layout is significantly different.

III. Description of the Defect or Noncompliance and Chronology of Events

Describe the defect or noncompliance, including a summary and detailed description of the nature and physical location (if appropriate) of the defect or noncompliance. Graphic aids should be provided where necessary. The PC Board develops a high resistance and overheats and could eventually burn if the condition is left long enough

Describe the cause(s) of the defect or noncompliance condition.

Anomalies such as voltage spikes damages electrical components and electrical circuit and cause failures. Poorly soldered connections could also have an effect on the integrity of the system.

Describe the consequence(s) of the defect or noncompliance condition.

The condition causes a high resistance and the unit becomes hot; although not enough current flow to blow the fuse.

Identify any warning(s) that may precede the defect or noncompliance condition. Possible intermittent failure followed by normal operation.

For defects, provide a dated, chronological summary of all the principle events that were the basis for the determination that the defect is related to motor vehicle safety, including a summary of all warranty claims, field or service reports, and other information such as numbers of crashes, injuries and fatalities. See Addendum 3

For noncompliances, identify the test results and other information considered in determining the existence of the noncompliance, and provide the date of each test and observation indicative of that noncompliance.

IV. The Remedy Program and Its Schedule

Describe the program for remedying the defect or noncompliance, including the plan for reimbursing those owners and purchasers who may have incurred costs to remedy the defect or noncompliance before receiving the manufacturer's notification concerning that defect or noncompliance. Also include, where applicable, details with dates concerning any production remedy that was conducted or will be conducted. Any model 3230 PC Board sold as Original Equipment or Service Part sold will be replaced free of charge plus one (1) hour of labor.

Provide the estimated date(s) on which owner and purchaser notifications will be issued and the estimated date(s) for completion of those notifications. August 1, 2013 through December 31, 2013.

Provide the estimated date(s) on which dealer and distributor notifications will be issued and the estimated date(s) for completion of those notifications. August 1, 2013 through December 31, 2013.

Describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.

The replacement PC Board is a model number 3333. It is large and has different LED designed into it.

Addendum 1

Ameritrans Bus, Inc.	Elkhart	IN	46515
ARBOC Specialty Vehicles, LLC	Elkhart	IN	46515
Champion Bus Inc.	Imlay City	MI	48444
Coach & Equipment Manufacturing Corp	Penn Yan	NY	14527
ARBOC Specialty Vehicles	Middlebury	IN	46540
Collins Bus Corp	South Hutchinson	KS	67505
Commercial Body Builders LTD	Delta	BC	V3M 5R1
Crestline Coach Ltd.	Saskatoon	SK	S7P 0A9
DaimlerChrysler Commercial Bus	Greensboro	NC	27407
Diamond Coach	Oswego	KS	67356
Double K	Crandon	WI	54520
Eldorado CA	Riverside	CA	92509
Eldorado KS	Salina	KS	67402- 3260
Elkhart Coach	Elkhart	IN	46515- 3030
Federal Coach	Fort Smith	AR	72918
GC Bus Acquisition Corporation	Elkhart	IN	46514
Goshen Coach Parts, Comm. Bus Div.	Goshen	IN	46514
Glaval Bus	Elkhart	IN	46515- 3030
Metal Works of High Point	High Point	NC	27261
Midway Specialty Vehicles, LLC	Elkhart	IN	46515- 1931

Newport Coachworks	Riverside	CA	92509
Overland Custom Coach	Thorndale	ON	NOM 2P0
Priority Van Sales, Inc.	Corinth	NY	12822
Prolific Coach	McDonough	GA	30253
Quality Coachworks	Ontario	CA	91761
Specialty Bus Mfg.	Ozark	MO	65721
Starcraft Bus	Elkhart	IN	46515- 3030
Supreme/Startrans Bus	Goshen	IN	46528
Tiffany Coachworks	Perris	CA	92570
Transportation Collaborative Inc. D/B/A TransTech Bus	Warwick	NY	10990

Addendum 2

Model	Description
1032A2	32" Electric Header Assembly
1032A2C1	32" Electric Header W/ Dual Open Switches & Auto Reverse
1032A2C1F1	32" Electric Header W/ Dual Open Switches & Auto Reverse
1032A3B4F1	32" Electric Header Assembly
1034A2C1	34 Electric Header W/Dual Open Switches & Auto Re-Open
1038A2	38-3/4" Electric Header Assembly
1038A2C1	38-3/4" Electric Header W/Dual Open Switches & Auto Re-Open
1039A2C1	39-3/4" Electric Header Assembly
1042A2	42" Electric Header W/Dual Open Switches
1042A2C1	42 Electric Header W/Dual Open Switches & Auto Re-Open
1042A2C1F1	42" Electric Header W/Dual Open Switches & Auto Re-Open
1046A2C1	46" Electric Header W/Dual Open Switches & Auto Re-Open
1046A2C1F1	46 Electric Header W/Dual Open Switches & Auto Re-Open & W3131
1129A3	29-3/8" Electric Header
1133A3	33 Electric Header W/Triple Open Switches
1139A3	39-3/8" Electric Header
1226A1B4	26" Electric Header
1226A1B4F1	26" Electric Header, Special Order
1228A1B4	28" Electric Header W/Single Open Switch & Single Close Switch
1228A1B4F1	28" Electric Header W/Single Open Switch & Single Close Switch
1228A1B4F1G1	28" Electric Header W/Single Open Switch & Single Close Switch, ER Extended
1228LA1B4	28" Electric Header - Left Hand
1228LA4B1	28" Electric Header, Left Hand
1228LA4B1F1	28" Electric Header, Left Hand
1228LA4B1F1G1	28" Electric Header, Left Hand, ER Extended
1233A1B4	33" Electric Header W/ Single Close Switch
1233A1B4F1	33" Electric Header W/ Single Close Switch
1233A1B4F1G1	33" Electric Header W/ Single Close Switch, 1" ER Extended
1233A1B4F1G2	33" Electric Header W/ Single Close Switch, 1" ER Extended
1233A4B1	33" Electric Header
1233LA4B1	33" Electric Header Assembly Left Hand
1233LA4B1F1	33" Electric Header Assembly Left Hand
1233LA4B1F1G1	33" Electric Header Assembly Left Hand
1234A1B4F1	38 Electric Header W/ Single Open Switch & Single Close Switch
1234A2B4D2	34" Electric Header W Remote Opener & 1 Key Fob
1234A2B4D2F1	34" Electric Header w/ Pigtail and Remote Opener & 1 Key Fob
1234A2B4D2F1G1	34" Electric Header w/ Pigtail and Remote Opener & 1 Key Fob, ER Extended

1238A1B4	38 Electric Header W/ Single Open Switch & Single Close Switch
1238A1B4F1	38" Electric Header
1238A1B4F1G1	38 Electric Header
1243A1B4F1	43" Electric Header
1245A1B4F1	46" Electric Header
1246.6A1B4	46-5/8" Electric Header
1246.6A1B4D2	46-5/8" Electric Header Assembly W/ Remote Opener & 1 Key Fob
1246.6A1B4F1	46-5/8" Electric Header
1246.6A1B4F1G1	46-5/8" Electric Header, ER Extended
1246.6A2	46-5/8" Electric Header
1246.6A2B4	46-5/8" Electric Header Assembly
1327.4A2	27-5/8" Electric Header W/Dual Open Switches
1327A2	27-5/8" Electric Header W/Dual Open Switches
1327A2E1	27" Electric Header Assembly - Reversed Arms
1327A2F1	27 Electric Header W/Dual Open Switches
1333.3A2	33-5/8" Electric Header Assembly
1333.3A2B4	33-5/8" Electric Header Assembly
1333.3A2B4F1	33-5/8" Electric Header Assembly
1333.4A2	33-5/8" Electric Header
1333.4A2D2	33-5/8" Electric Header with Remote Receiver and 2 Key FOBs
1333A2	33-5/8" Electric Header W/ Double Open Switches
1333A2B4	33-5/8" Electric Header Assembly
1333A2B4C1	33-5/8" Electric Header Assembly
1333A2B4C4	33-5/8" Electric Header, NO PC BOARD
1333A2B4G1	33-5/8" Electric Header, NO PC BOARD
1333A2C1	33-5/8" Electric Header Assembly w/ Auto Reopen
1333A2E1	33-5/8" Electric Header Assembly w/ Reverse Arms
1333A2F1	33-5/8" Electric Header W/ Double Open Switches
1333A3E1	33-5/8" Electric Header W/Triple Open Switches Rev Arms
1333LA2	33-5/8" Electric Header Assembly Left Hand
1333LA5	33-5/8" Electric Header Assembly Left Hand
1333LA5B1F1	33-5/8" Electric Header Assembly Left Hand
1340.4A2	40-5/8" Electric Header
1340A2	40-5/8" Electric Header W/Dual Open Switches
1340A2E1	40-5/8" Electric Header w/ Dual Open Switches & Reverse Arms
1346.4A2	46-5/8" Electric Header
1346A2	46-5/8" Electric Header
1432.2A2	32" Electric Header Dual Open Switch & Button Head Fwd Bolt
1432.2A2C1	32" Electric Header Assembly w/ Auto Re-open
1432.2LA5	32" Electric Header
1432A1B4C1	32" Electric Header

1432A2	32" Electric Header
1432A2B4	32" Electric Header
1432A2B4C1	32" Electric Header Assembly w/ Auto Re-open
1432A2C1	32" Electric Header Assembly w/ Auto Re-open
1442.2A2	42" Electric Header W/Dual Open Switches & Button Head Forward Bolt
1442.2A2C1	42" Electric Header
1442.2A2F1	42" Electric Header W/Dual Open Switches & Button Head Forward Bolt
1442A1B4	42" Electric Header Assembly
1442A1B4F1	42" Electric Header Assembly
1442A2	42" Electric Header W/ Dual Open Switches
1442A2B4	42" Electric Header Assembly
1442A2B4F1	42" Electric Header Assembly
1442A2B4F1G1	42" Electric Header Assembly
1442A2F1	42" Electric Header W/ Dual Open Switches
1445.2A2	45" Electric Header Assembly
1445A2	45" Electric Header Assembly
1445A2C1	45" Electric Header w/ Auto Re-open
1445A2F1	45" Electric Header Assembly
1533A2	33.75" Electric Header W/Dual Open Switches
1533A2F1	33-3/4" Electric Header W/Dual Open Switches
1533SA2	33" Electric Header
1533SA2B4C1F1	33" Electric Header
1628A2B4	28-1/4" Electric Header W/Dual Open Switches & Single Close Switch
1628A3B4	28" Electric Header Assembly
1628A3B4C1	28-1/4" Electric Header
1634.1A3B4	34-1/4" Electric Header Assembly
1634.1A3B4F1	34-1/4" Electric Header Assembly
1634.2A1B4C1F1	34-1/4" Electric Header Assembly
1634.3A1B4C1F1	34-1/4" Electric Header Assembly
1634A1B4	34-1/4" Electric Header Assembly
1634A1B4C1F1	34-1/4" Electric Header w/ Auto Reopen
1634A1B4F1	34-1/4" Electric Header Assembly
1634A2C1	34-1/4" Electric Header w/ Auto Reopen
1634A2F1	34-1/4" Electric Header Assembly
1634A3B4	34" Electric Header Triple Switch w Single Close Switch
1634A3B4F1	34" Electric Header Triple Switch w Single Close Switch
1634A3B6	34-1/4" Electric Header
1634A3B6C1	34-1/4" Electric Header w/ Auto Reopen
1634A3B6C1D2	34-1/4" Electric Header w/ Auto Re-open & Remote Opener
1634A3B6C1F1	34-1/4" Electric Header w/ Auto Reopen
1634LA6B1	34-1/4" Electric Header, Left Hand

1638A2	38-1/4" Electric Header
1638A2C1	38-1/4" Electric Header W/Dual Open Switches & Auto Re-Open
1638A2C1F1	38-1/4" Electric Header
1638A2F1	38-1/4" Electric Header
1638A3B4	38" Electric Header W/Triple Open Switches & Single Close Switch
1638A3B4F1	38-1/4" Electric Header W/Triple Open Switches & Single Close Switch
1644A3B4	44-1/4" Electric Header W/Triple Open Switches & Single Close Switch
1646A3	46-1/4" Electric Header
1646A3B4	46-1/4" Electric Header
2126.1A2B5C1E1F1	26" Electric Header Assembly, In-Swing Door
2126A11B11C1	26" Electric Header Assembly w/ Remote Release Handle
2126A1B4C1E1F1	26" Electric Header Assembly
2128A11B11C1	28" Electric Header Assembly W/ Auto Re-open
2128A8B9C1	28" Electric Header Assembly W/ Auto Re-open
2128A8B9C1D2	28" Electric Header Assembly w/ Auto Re-open & Remote Opener
2129.1A3	28-7/8" Electric Header Assembly
2129A3	29-3/8" Electric Header Assembly
2129A3B4C1	29-3/8" Electric Header Assembly w/ Auto Re-open
2133.3A3	33-5/8" Electric Header W Triple Open Switches
2133.3A3D2	33-5/8" Electric Header Assembly w/ Remote Opener
2133.3A3F1	33-5/8" Electric Header W Triple Open Switches
2133A3	33-3/8" Electric Header w Triple Switch
2133A3C1F1	33-3/8" Electric Header w/ Triple Switch
2133A3F1	33-3/8" Electric Header w Triple Switch
2133LA6	33-3/8" Electric Header, Left Hand
2139A3	39-3/8" Electric Header W/ Triple Open Switches
2139A3F1	39-3/8" Electric Header W/ Triple Open Switches
2145A3	45" Electric Header
2231A2	31-7/8" Electric Header
2231A2E1	31-7/8" Electric Header Assembly
2231A2E1F1	31-7/8" Electric Header Assembly
2233A2	33-7/8" Electric Header Assembly
2233A2E1	33-7/8" Electric Header Assembly
2233A2E1F1	33-7/8" Electric Header Assembly
2241A2	41-7/8" Electric Header Assembly
2241A2E1	41.875" Electric Header Assembly
2241A2E1F1	41.875" Electric Header Assembly
2330A1B4C1	30" Electric Header Assembly w/ Auto Reopen
2330A1B4C1F1	30" Electric Header Assembly w/ Auto Reopen
2330A1B6C1F1	30" Electric Header Assembly w/ Auto Re-open
2330A2	30" Electric Header W/Dual Open Switches

2330A2E1F1	30" Electric Header Assembly
2330A2F1	30" Electric Header W/Dual Open Switches
2330LA5F1	30" Electric Header Left Hand
2424.1A2	24" Electric Header
2424A2	24" Electric Header
2729.1A2	29-1/4" Electric Header Assembly
2729.2A11B11C1	29" Electric Header Assembly w/ Auto Re-open
2729.2A11B11C1F1	29" Electric Header Assembly w/ Auto Re-open
2729.2A2	29" Electric Header Assembly
2729.3A11B11C1F1	29" Electric Header Assembly w/ Auto Re-open
2729A2	29" Electric Header Assembly
2840.1A2B4	40" Electric Header Assembly
2840.1A2B5	40" Electric Header Assembly
2840.1A2B5C1	40" Electric Header Assembly, Auto Reopen
2840.1A3B4	40" Electric Header Assembly
2840.1A3B4F1	40" Electric Header Assembly
2840A1B4	40" Electric Header Assembly
2840A1B4F1	40" Electric Header Assembly
2840A1B4G1	40" Electric Header Assembly
2840A2	40" Electric Header Assembly
2840A2C1F1	40" Electric Header Assembly, Auto-Reopen
2840A2F1	40" Electric Header Assembly
2840A3B4	40" Electric Header Assembly
2840A3B4C1	40" Electric Header, Auto Reverse
2840A3B4C1F1	40" Electric Header Assembly w/ Auto Re-open
2840LA4B1	40" Electric Header Assembly - Left Hand
2840LA4B1F1	40" Electric Header Assembly - Left Hand
2840LA5F1	40" Electric Header Assembly - Left Hand
2842.1A2B5	42" Electric Header Assembly
2842A1B4C1F1	42" Electrical Header
2842A2	42" Electrical Header
2842A2B4	42" Electric Header Assembly
2842A2B4F1	42" Electric Header Assembly
2842A2B5	42" Electrical Header
2842A2F1	42" Electrical Header
2930A2	30-1/2" Electric Header
2932A2	Electric Header W/Dual Open Switches
3034A3B4	34" Electric Header
3034A3B4F1	34" Electric Header
3039A3B4F1	39-5/8" Electric Header
3501A11B11C1	Header Assembly, Electric, 28.5" Vertical w/bends

3501A12B9C1	Header Assembly, Electric, 28.5" Vertical w/bends
3526.1A11B11C1E1F1	26" Electric Header Assembly w/ Remote Release Handle
3526.1A11B11C1F1	26" Electric Header Assembly
3526A11B11	26" Electric Header Assembly w/ Remote Release Handle
3526A11B11C1	26" Electric Header Assembly w/ Remote Release Handle
3528.1A11B11C1	28" Electric Header Assembly W/ Auto Re-open
3528.2A11B11C1	28" Electric Header Assembly W/ Auto Re-open, 2.5" Baseplate
3528.3A11B11C1	28" Electric Header Assembly W/ Auto Re-open, 2.5" Baseplate
3528A8B9C1	28" Electric Header Assembly
3528A9C1	28" Electric Header Assembly w/ Auto Reopen
3531A11B11C1E1	31-7/8" Electric Header Assembly W/ Auto Re-open
3531A11B11C1E1F1	31-7/8" Electric Header Assembly W/ Auto Re-open
3533.1A11B11C1E1	33-7/8" Electric Header Assembly W/ Auto Re-open
3533.1A11B11C1E1F1	33-7/8" Electric Header Assembly W/ Auto Re-open
3533.1A11B11C1F1	33-7/8" Electric Header Assembly
3533.1A11B11F1	33-7/8" Electric Header Assembly
3533A11B11C1	33-1/2" Electric Header Assembly W/ Auto Re-open
3534.1A11B11C1	34" Electric Header Assembly W/ Auto Re-open
3534.2A11B11C1F1	34" Electric Header Assembly W/ Auto Re-open, No Motor, No PC Board
3534A11B11C1F1	34" Electric Header Assembly W/ Auto Re-open
3541A11B11C1E1	41-7/8" Electric Header Assembly W/ Auto Re-open
3542A11B11C1	42" Electric Header Assembly, Vertical, Auto Re-open
3633A1B4	33" Electric Header Assembly w/ Exterior Release
3633A1B4F1	33" Electric Header Assembly w/ Exterior Release
3633A2B4	33" Electric Header
3633A2B4F1	33" Electric Header Assembly w/ Exterior Release
3640.1A2B5F1	40" Electric Header Assembly w/o Exterior Release
3640A1B4	40" Electric Header Assembly w/ Exterior Release
3640A1B4F1	40" Electric Header Assembly w/ Exterior Release
3640LA4B1	40" Electric Header Assembly - Left Hand
3640LA4B1F1	40" Electric Header Assembly - Left Hand
4433A3B4C1F1	33" Electric Header Assembly
4444A3B4C1F1	44" Electric Header Assembly
4636A2B5C1F1	35-3/4" Electric Header
4734A2B5	34" Electric Header Assembly
4734A2B5C1	34" Electric Header Assembly, Auto Reopen
4828A11B11C1	28" Electric Header Assembly W/ Auto Re-open, 2.5" Baseplate
X1327A2C1	27" Electric Header Assembly
X1333A2C1	33-3/8" Electric Header Assembly w/Auto reopen

Addendum 3

Chronological Summary of Events

November, 2011

We received a notification of two (2) bus fires at the Greater Bridgeport Transportation Authority. It was the determination of the investigation team that the installation of auto-resettable circuit breakers was a contributing factor in the failure and eventual fire. There were no injuries with these incidents. Replacement PC Boards were supplied to the bus operator along with an in-line fuse harness for their fleet of like busses.

May, 2013

A fire in a bus operated by The City of Everett, Everett, Washington occurred on May 4th or 5th; it too was electrically fed through an auto-resettable circuit breaker. This time, evidence was available to lead us to a problem with the control board. The manufacturer of the PC board, Polytron Corporation, Elkhart, Indiana was contacted. Additional evidence became available when another model 3230 PC board was found to be operating relatively hot but still functioning. There were no injuries with this incident. A complete door actuator was supplied to the bus operator and the bus was returned to service after moderate cosmetic painting and a new service cover.

June, 2013

A fire was reported in a bus operated by the Florida Department of Transportation as a result of an overheated PC Board. The board was not fed by an auto-resettable. There were no injuries with this incident. The bus is most likely a total loss.

All the board fires occurred with the model 3230 PC board.