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13E-045
(15 pages)

Davey Coach submitted a 573 but is working with Ford and Starcraft to remedy the vehicles. Davey Coach is not conducting a recall. 02/12/14 cg

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):

Davey Coach
1) 2002 Ford E350/ Goshen Bus 2) Ford E450/Champion Bus
3) Ford E450/ Champion Bus 4) Ford E350/ Starcraft Bus
5) Ford E35 / Champion Bus Jeff Weatherman

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~~

A+M System (Nicole Luken)
P.O. Box 89
Elkhart IN 46517
574-522-5000

Type of equipment (e.g., tire, child restraint, headlamp): Entry Door Circuit Board
Part/Model number: 3230
Size and function (where applicable): Unknown
Inclusive dates of manufacture (month and year): Aug 1 2009 - March 31 2010
Other information necessary to describe this equipment: FORD E350 + E450 Chassis - Champion / Starcraft / Goshen Buses 15 passenger
Total number of these items of equipment: 5

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%

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.

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
Nicole Luken, nluken@anmsystems.com, 574-522-5000 ext. 15, 574-522-9099
~~Brad Miller, bmiller@anmsystems.com, 574-522-5000 ext. 18, 574-522-9099~~
Karey Aenis, kaenis@anmsystems.com, 574-522-5000 ext. 11, 574-522-9099
Jeff Weatherman jeffw@daveycoach.com 303-683-9500 303-683-6008

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
DAVEY COACH DOES NOT MANUFACTURE THE BUSES. TOTAL OF BUSES SOLD WITH THIS STYLE DOOR ACTUATOR CIRCUIT BOARDS IS UNKNOWN. ONLY 15 KNOWN TO BE AFFECTED DURING TIME PERIOD.
Total number of these items of equipment: 5,530

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.

Our company received letter from US Dept trans.

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.

Some entry door circuit boards are overheating.

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.

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.

Recieved US Dept Trans letter 2/10/2013
Responded 2/11/2013
Sent notification and call to all 5 affected costomers on 2/11/2013

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 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

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

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

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.