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10V-376  
(6 pages)



**Spartan Motors Chassis, Inc.**

1000 Reynolds Road - Charlotte, MI - 48813

**573 DEFECT & NONCOMPLIANCE REPORT**

<b>Description:</b>	Inadvertent Cab Tilt		
<b>Internal Code:</b>	10017	<b>Date of Report:</b>	8/12/2010

**Submitted to:** Associate Administrator for Safety Assurance  
National Highway Traffic Safety Administration  
1200 New Jersey Ave. SE  
Washington, DC 20590

Attn: Mrs. Kelly Schuler, Office of Defects Investigation  
Fax: (202) 366-7882  
Email: RMD.ODI@dot.gov

**Manufacturer Identification:** Spartan Motors Chassis, Inc.  
1000 Reynolds Road  
Charlotte, MI 48813

Telephone: (517) 543-6400

**Corporate contacts for recall information:**

Customer Notification / Customer Service:

Wes Redfield  
Campaign/Recall Coordinator  
Customer Service Operations  
(517) 543-6400, ext. 3237  
Fax: (517) 543-9264  
Email: Wes.Redfield@spartanchassis.com

Report prepared by:

Wesley D. Chestnut  
Senior Compliance Analyst  
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Preparer's Signature:

## PART 573 Defect and Noncompliance Report

### I. IDENTIFY THE VEHICLE MODELS INVOLVED IN THE RECALL

#### 2. Identify the Vehicles Involved in the Recall:

<b>Make:</b>	Spartan Motors Chassis, Inc.		
<b>Model:</b>	Furion RT		
<b>Model Years Involved:</b>	2009 and 2010		
<b>Vehicle Type:</b>	Emergency Rescue Transport		
<b>Weight Range:</b>	From GVWR: 26000 lbs	To GVWR:	30660 lbs
<b>Weight Class:</b>	From Class: 6	To Class:	7
<b>Beginning VDM:</b>	2/3/2009	<b>Ending VDM:</b>	6/3/2010
<b>% Potentially Involved:</b>	100%		

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:**  
 Vehicles affected by this recall utilize programming within a control module to control power distribution to the cab tilt system. Other vehicles use circuitry independent of the control module.

### II. IDENTIFY THE RECALL POPULATION

#### 3. Furnish the total number of vehicles recalled potentially containing the defect or non-compliance

MODEL	MODEL YEAR	No. POTENTIALLY INVOLVED
Furion R/T	2009	33
Furion R/T	2010	7
<b>TOTAL:</b>		40

#### 4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance.

Approximate Defect Percentage: 100%

**Identify and describe how the recall population was determined--in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled vehicles:**  
 Vehicles subject to this recall were determined by utilizing the part number of the control module which houses the cab tilt control circuit.

**III. DESCRIBE THE DEFECT OR NONCOMPLIANCE**

**5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.**

The cab may tilt (hoist) while the vehicle is in motion.

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

The control module which houses the cab tilt control circuit is subject to fluid intrusion. When fluid enters the module, an electrical short could occur.

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

If the cab were to tilt (hoist) while the vehicle is in motion, the driver may react adversely which could result in a vehicle crash.

**Identify any warning which can (a) precede or (b) occur.**

The cab may tilt (hoist) without warning.

<b>If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address:</b>	
Generic Component Name:	Hercules Node
Supplier Part Number:	6000-0000-04
Spartan Part Number:	0328-GG3-019
Supplier Corporate Name:	Weldon Technologies, Inc.
Address:	3656 Paragon Drive Columbus, OH 43228
CEO or Knowledgeable Rep:	Peter Luhrs

**IV. PROVIDE THE CHRONOLOGY IN DETERMINING THE DEFECT/NONCOMPLIANCE**

*If the recall is for a defect, complete item 6, otherwise item 7*

**6. If defect, furnish a chronological summary with dates of all the principle events that were the basis for the determination of the defect. Include number of reports, accidents, injuries, fatalities, and warranty claims.**

13JUL10 - Customer complaint of cab tilted (hoisted) in advertently when vehicle was left idling and unattended. Service provider removed the control module and found water internal of the module.

22JUL10 - Investigation determines other control modules installed on similar vehicle contains water.

02AUG10 - Failure mode is recreated in controlled setting.

05AUG10 - Spartan Motors Chassis, Inc. determines a defect relating to motor vehicle safety exists in the affected units as the failure mode could occur when the vehicle is in motion.

**7. If noncompliance, identify and provide the test results or other data in chronological order with dates on which the noncompliance was determined.**

N/A

**V. IDENTIFY THE REMEDY**

**8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.**

Spartan has determined rotating the control module 90-degrees from its current horizontal mounted position, adding a cover plate over the top of the mounting region, and reprogramming of the tilt control logic are the remedy for this defect.

**Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.**

In the current state of the vehicles, the control module would be mounted in a horizontal direction behind the rear, street side step well. In addition, when the cab is tilted, the region will not have a cover and is open to all elements of the environment. With appropriate hardware and software, the programming logic for the tilt control I/Os could be viewed.

**Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.**

The production remedy is consistent with the field remedy.

**VI. IDENTIFY THE RECALL SCHEDULE**

**Furnish a schedule or agenda, with specific dates, for notification to other manufacturers, dealers/retailers, and purchasers. Please identify any foreseeable problems with implementing this recall.**

**VII. FURNISH RECALL COMMUNICATIONS**

9. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification.

DOCUMENT DESCRIPTION	DATE AND MANNER SUBMITTED
Notification letter to other manufacturers	20-Aug-10
Draft Notification letter to purchasers	27-Aug-10
Press release (if applicable)	N/A
Recall Service Bulletin (RSB)	N/A
Notification Envelope	Pre-Approved

*All documents to be faxed to 202-366-7882, then mailed.*

The manufacturer's campaign identification number if not identical to the number assigned by NHTSA.

**Final Stage Manufacturer Qty Rec'd**

Braun Industries 37  
1170 Production Drive  
Van Wert, OH 45891  
Attn: Terry Dysinger

Road Rescue 1  
2914 Spartan Place  
Marion, SC 29571  
Attn: April Smallwood

Spartan Motors, Inc. 2  
1000 Reynolds Road  
Charlotte, MI 48813  
Attn: Wesley D. Chestnut