



**SPARTAN MOTORS, INC.**

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August 9, 2013

Ms. Nancy Lewis  
Associate Administrator for Enforcement  
National Highway Traffic Safety Administration  
Attention: Recall Management Division  
1200 New Jersey Avenue S.E.  
Washington, DC 20590

Subject: Spartan ERV - Defect Information Report

Dear Ms. Lewis:

Pursuant to Part 573 of Title 49 of the Code of Federal Regulations Spartan Motors, Inc, on behalf of Spartan ERV, hereby reports a safety defect involving motor vehicle equipment. Spartan ERV has determined a defect involving the rotation interlock magnet exist in 85 aerial fire apparatus built between February 23, 2004 and June 16, 2010.

Please contact me with any questions as it relates to this matter.

Best Regards,

Wesley D. Chestnut  
Lead, Compliance



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**Defect Information Report  
ERV13-001**

**573.6(c)(1):** Spartan ERV  
64 Cocalico Creek  
Ephrata, PA 17522

**573.6(c)(2):** Aerial fire apparatus affected by this recall are equipped with a rotation interlock magnet that are attached by an adhesive that deteriorates over time. Other aerial fire apparatus are equipped with a rotation interlock magnet that is mechanically fastened to the aerial device.

<b>Make</b>	Spartan ERV
<b>Models</b>	RMA 75, RMA 103, RMP 100, and TDA
<b>Model Years</b>	2004 through 2010
<b>Vehicle Type</b>	Aerial Fire Apparatus
<b>Weight Range (GVWR)</b>	45,000 lbs to 83,000 lbs
<b>VDM Range</b>	2/23/2004 through 6/16/2010

Table 1

**573.6(c)(3)** The total number of vehicles potentially containing the defect is shown in **Table 2**.

<b>Model</b>	<b>Model Year</b>	<b>Number Involved</b>
RMA 103	2004	3
TDA	2004	1
RMA 75	2005	6
RMP 100	2005	2
RMA 103	2005	2
TDA	2005	2
RMA 75	2006	1
RMP 100	2006	4
RMA 103	2006	4
TDA	2006	3
RMA 75	2007	6
RMP 100	2007	4
RMA 103	2007	3
TDA	2007	8
RMA 75	2008	4
RMP 100	2008	4
RMA 103	2008	14



TDA	2008	1
RMA 75	2009	2
RMP 100	2009	1
RMA 103	2009	7
TDA	2009	2
TDA	2010	1
<b>Total</b>		<b>85</b>

**Table 2**

**573.6(c)(4)** 100% of the vehicles produced between the dates of manufacturing shown in Table 2 contain the defect.

**573.6(c)(5)** Due to time and exposure to environmental conditions, the adhesive used to attach the rotation interlock magnet degrades allowing the magnet to detach and be free to move without warning.

With the magnet moving freely, proper positioning of the aerial would not be detected by the control system. In the event the outriggers were not fully deployed on one side of the vehicle, the aerial may be allowed to rotate to that side causing the vehicle to become unstable. Although Spartan ERV has not been made aware of such instances, if the aerial fire apparatus were to become unstable and roll over, severe personal injury or significant property damage could occur.

**573.6(c)(6)** **January 2013** – Spartan ERV is made aware of rotational magnets being detached from the aerial device during an inspection.

**March 2013** – Spartan ERV decides to conduct a campaign to mechanically attach the magnets to the aerial device and releases a service bulletin to service providers, dealers, and customers indicating repair instructions.

**May 2013** – NHTSA inquired about the issue and sought more information relative to the service bulletin.

**June 2013** – Spartan Motors, Inc. provides the requested information on behalf of Spartan ERV.

**July 2013** – NHTSA requested Spartan ERV to reevaluate the issue regarding the rotational magnets.

**August 2, 2013** – Spartan ERV determines a defect relating to motor vehicle safety exists in the affected aerial fire apparatus.



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**573.6(c)(8)** For vehicles affected by this recall, the rotation interlock magnets will be reattached to the aerial device using mechanical fasteners. This will be done at no charge.

Spartan ERV began a proactive campaign in March 2013.