

<b>Final Stage Manufacturer</b>	<b>Qty of Incomplete Vehicles</b>
3D Manufacturing <b>No Longer in Business</b>	10
4-Guys 230 Industrial Park Road Meyersdale, PA 15552 814.634.8373 Attn: Mark Albright	8
Action Fire 6601-B Northpark Blvd Charlotte, NC 28216	2
Aerialscope <b>No Longer in Business</b>	4
Alert Fire 276 Crescent Drive Portland, MI 48875	1
Allain Equipment Route 1 Box 3320 Cocagne, NB E0A 10 Attn: Norman Cormier	1
Almonte 7 Industrial Place Carleton, ON K7C 3V7	1
Amtech Emergency Products 1209 South Union PO Box 29 Rock Rapids, IA 51246-0029	1
Anderson 22624 Fraser Highway Route 3 Langley, BC V3Z 2T8	1
Alexis Fire 109 East Broadway Alexis, IL 61412 309.482.6121 Attn: Jeff Morris	3
Baldwin Fire District 2386 Grand Avenue Baldwin, NY 11510	2

Big Tree Volunteer Fire 4307 South Park Avenue Blasdell, NY 14219	1
Central States 100 3rd Street Lyons, SD 57041 605.543.5591 Attn: Harold Boer	9
Crimson Fire 907 7th Avenue North Brandon, SD 57005 605.582.4000 Attn: Kevin Crump	46
Crimson Aerial 907 7th Avenue North Brandon SD 57005 Attn: Kevin Crump	1
David's Fire Equipment 8783 John Harden Cabot, AR 72023 800.264.0017 Attn: J.R. Ford	1
Dependable Truck and Tank 275 Clarence Street Brampton, ON L6W 3R3 905.453.6724 Attn: Santo Natale	2
E-One 1701 S.W. 37th Avenue Ocala, FL 34474 352.237.1122 Attn: Kevin Kearns	15
Eden Fire Department PO Box 85 Eden, NY 14075	1
Emergency Vehicles <b>No Longer in Business</b>	1
First Rescue 205 Sharon Acres Stockbridge, GA 30281	1

Ferrara 27855 James Chapel Road Holden, LA 70744 800.443.9006 Attn: Charlie Grimes	66
Garden City Water 333 Marcus Garden City Park, NY 11040	1
General Safety 5181 260th Street Wyoming, MN 55092 651.462.1000 Attn: Steve Reedy	13
Gowan's Knight 49 Knight Street Watertown, CT 06795 860.274.8801 Attn: Craig Palmer	5
H&W Emergency 3150 SW 234th Avenue, Suite 100 Hillsboro, OR 97123 503.647.1115 Attn: Russ Sheldon	12
Hammer Vehicle <b>No Longer in Business</b>	3
Hi Tech Emergency Vehicle Service 444 West Greger Oakdale, CA 95361 209.847.3042 Attn: Dan Marchione	18
Hilton Parma Fire District 135 South Avenue Hilton, NY 14468	1
Hope-Jackson Fire Company PO Box 201 Hope, RI 02831	1
Hub Fire 3175 McCallum Road Abbotsford, BC V2T 6Z4 604.859.3124 Attn: Glenn Berger	1

Incorporated Village of Freeport 46 North Ocean Avenue Freeport, NY 11250	1
Kovatch One Industrial Complex Nesquehoning, PA 18240 570.669.9461 Attn: Tony Cornetto	3
Ladder Towers, Inc. <b>No Longer in Business</b>	20
Lewiston Fire Company 145 North Sixth Street Lewiston, NY 14092	1
Luverne <b>No Longer in Business as Luverne</b>	32
Marion Body 211 West Ramsdell Street Marion, WI 54950 715.754.5261 Attn: Jim Simpson	11
Metal Fab PO Box 279 Blaine, ME 04734	2
Metro Fire 745 Parana Drive Houston, TX 77080	1
Middletown Township 1 King's Way Middletown, NJ 07748	1
Monroeville Fire Company 600 Garden City Drive Monroeville, PA 15146	1
New Lexington <b>No Longer in Business</b>	3
New Wilmington V.F.D PO Box 66 140 West Neshannock Avenue New Wilmington, PA 16142	1

North Greece Fire 176 Latta Road Rochester, NY 14612	1
Northeastern <b>No Longer in Business</b>	3
Old South Manufacturing <b>No Longer in Business</b>	1
PL Custom 2201 Atlantic Avenue Manasquan, NJ 08736 732.223.1411 Attn: Mike Marquis	4
Precision Fire Apparatus, Inc. 524 S. State Highway 5 Camdentown, MO 65020 573.346.8387 Attn: Steven Bonacker	10
Quality Manufacturing <b>No Longer in Business</b>	51
RD Murray S-4760 Camp Road Hamburg, NY 140175	8
Resque 1 2201 Atlantic Avenue Manasquan, NJ 08736	2
Road Rescue 2914 Spartan Place Marion, SC 29571 Attn: April Smallwood	1
Rockaway Township 65 Mount Hope Road Rockaway, NJ 07866	1
S&S Fire <b>No Longer in Business</b>	3
Safetek International Emergency 740 International Emergency Vehicles Coquitlam, BC V3C 6A3	2

Spartan Motors, Inc. 1000 Reynolds Road Charlotte, MI 48813	4
Saulsbury <b>No Longer in Business</b>	126
Simon Fire 207 3rd Street NW Farley, IA 52046	1
Smeal Fire Apparatus 610 West 4th Street Snyder, NE 68664 402.568.2224 Attn: Jeff Hunke	59
Summit Fire Apparatus 650 Dudley Road Edgewood, KY 41017 859.331.0360 Attn: Joseph Messmer	2
Super Vac Incorporated 1511 East 11th Street Loveland, CO 80537 970.667.5146 Attn: Robert Sorensen	15
Superior 6430 Golden West Avenue Red Deer, AB T4P 1A6	4
Swab Wagon 44 South Callowhill Street Elizabethville, PA 17023 717.362.8151 Attn: Tony Margerum	1
Toyne 104 Granite Avenue Breda, IA 51436 712.673.2328 Attn: Mike Schwabe	9
Tylersport Fire Company 125 West Ridge Road PO Box 221 Tylersport, PA 18971	1

US Tanker 762 Brookview Avenue Burlington, WI 53105 Attn: Tim Bendle	1
Upper Dublin Township 220 Summit Avenue PO Box 387 Fort Washington, PA 19034	1
VT Specialized Vehicles Corp 911 West 5th St PO Box 880 Washington, NC 27889 252.946.6521 Attn: Gene Newman	2
WS Darley 325 Spring Lake Drive Itasca, IL 60143 708.345.8050 Attn: Paul Darley	14
Watertown Fire Department 22825 Route 67 Watertown, NY 13601	1
Welch Fire 930 East Prospect Avenue Marion, WI 54950	2
Westates 285 Industrial Way Woodland, CA 95776	2
Wolverine Fire 319 Crane Street Union City, MI 49094	1



**Spartan Motors Chassis, Inc.**  
 1000 Reynolds Road - Charlotte, MI - 48813

**573 DEFECT & NONCOMPLIANCE REPORT**

<b>Description:</b>	Center forward facing Non-All Belts to Seat (ABTS) seat belt anchorage design is non-compliant to FMVSS 210.
---------------------	--

<b>Internal Code:</b>	10005	<b>Date of Report:</b>	4/23/2010
-----------------------	-------	------------------------	-----------

**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 Chassis, Inc.  
 1000 Reynolds Road  
 Charlotte, MI 48813

Telephone: (517) 543-6400

**Corporate contacts for recall information:**

<b>Customer Notification / Customer Service:</b>	<b>Report prepared by:</b>
Wes Redfield Campaign/Recall Coordinator Customer Service Operations (517) 543-6400, ext. 3237 Fax: (517) 543-9264 Email: Wes.Redfield@spartanchassis.com	Wesley D. Chestnut Senior Compliance Analyst Product Assurance (517) 543-6400, ext. 3275 Fax: (517) 543-7729 Email: wdchestn@spartanmotors.com

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>	Advantage, Barron, Diamond, Gladiator, Metrostar, Mountain Star, TR-1, and Service Sales		
<b>Model Years Involved:</b>	2003 thru 2009		
<b>Vehicle Type:</b>	Incomplete Fire Apparatus Chassis Cab and Service Sales		
<b>Weight Range:</b>	From GVWR: 23,814 lbs	To GVWR:	83K lbs
<b>Weight Class:</b>	From Class: 6	To Class:	8
<b>Beginning VDM:</b>	1/12/1998	<b>Ending VDM:</b>	11/17/2009
<b>% Potentially Involved:</b>	100%		

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:**

Incomplete fire apparatus chassis cabs affected by this recall are equipped with certain, center forward non-ABTS (All Belts To Seat) which are installed on an order by order basis.

### 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
Advantage	1999	3
Advantage	2000	43
Advantage	2001	67
Advantage	2002	3
Advantage	2003	1
Advantage	2005	1
Advantage	2006	2
Advantage	2007	2
Barron	2000	2
Barron	2002	1
Diamond	2006	2
Diamond	2007	1
Diamond	2008	2
Gladiator	1998	34
Gladiator	1999	93
Gladiator	2000	67
Gladiator	2001	38
Gladiator	2002	20
Gladiator	2003	10
Gladiator	2004	4
Gladiator	2005	22
Gladiator	2006	9
Gladiator	2007	7
Gladiator	2008	24
Gladiator	2009	6
Gladiator	2010	3
Metrostar	1998	10

Metrostar	1999	27
Metrostar	2000	63
Metrostar	2001	43
Metrostar	2002	6
Metrostar	2003	3
Metrostar	2004	1
Metrostar	2005	3
Metrostar	2007	4
Metrostar	2008	6
Metrostar	2009	5
Metrostar	2010	2
Mountain Star	2008	2
TR-1	2000	1
Service Sales	2002	2
Service Sales	2003	1
Service Sales	2004	2
Service Sales	2007	1
Service Sales	2009	1
<b>TOTAL:</b>		<b>650</b>

**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:**

Our recall population was determined by performing a search of units built with the part number of the component used in the design of attachment for seatbelt anchorage to the center of rear wall of cab. This component is only used when certain non-ABTS are selected for center, forward facing seating arrangement in the rear of cab. After an extensive review of production models and previous test records, a cut in point was determined by using the part number of the anchorage bracket.

**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 component used for seatbelt anchorage to the mid-section of the cab rear wall separates from the attachment point when loads less than those required by FMVSS 210 are applied.

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

Internal product evaluation processes did not require a risk evaluation of product options during the time period in which the suspect optional design was created. Other suspect models were extrapolated to be acceptable using previous flat roof cab test results

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

The anchoring component may separate from the cab during a vehicle crash and/or when significant loading occurs on the anchorage point. This may result in occupant injury.

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

The anchoring component may separate from the cab, as stated above, without warning.

**If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address:**

Generic Component Name:	N/A
Supplier Part Number:	N/A
Spartan Part Number:	N/A
Supplier Corporate Name:	N/A
Address:	N/A
CEO or Knowledgeable Rep:	N/A

**IV. PROVIDE THE CHRONOLOGY IN DETERMINING THE**

*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.**

N/A

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

**02FEB10** - Spartan Motors Chassis, Inc. received test report from test agency who performed testing on all forward facing, rear mounted seats in accordance with FMVSS 210 on a future cab model design. After receipt of the report, the failure was identified and non-compliance determined.

**04FEB10** - Spartan Motors Chassis, Inc. begins preparing Form 573 for submission to the NHTSA in accordance with 49CFR573 and 49CFR577.

**05FEB10** - Spartan Motors Chassis, Inc. Product Assurance - Compliance notifies the NHTSA

**05FEB10** - Compliance begins investigating other models potentially affected.

**05FEB10** - Proposed conceptual field remedies are approved for procurement

**08FEB10** - Previous test in accordance with FMVSS 210 requirements was retrieved

**10FEB10** - Determination is made on final containment population and is revised to 643 incomplete vehicles and 7 service sales.

**15FEB10** - 3 tests were conducted on current design, proposed solution 1, proposed solution 2. The failure mode was repeated on current design. However, the 2 proposed solutions passed the preliminary test.

**01MAR10** - Determination is made in Compliance that a full cab would be needed to perform the necessary testing

**01MAR10** - Material was ordered to install for testing.

**09MAR10** - Spartan confirms cab dimensions with test facility.

**24MAR10** - Test facility confirms start date to be mid April.

**14APR10** - Test begins.

**20APR10** - Compliance is notified of successful third party testing of remedy.

**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.**

A reinforcement bracket will be installed in addition to the current anchorage to support. It will be fastened to the main structure of the cab.

Cabs with the recall condition would not have this reinforcement bracket installed.

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

The recalled units will not have the reinforcement bracket allowing direct load to be placed on the current anchorage bracket in which there is not substantial material to support the required loading.

By adding the reinforcement, loads would be distributed on the main structure of the cab which is more robust for supporting the required loading.

**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.**

Production remedy will be the same as 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.**

03MAY10 - Begin notifying customers, dealers and purchasers

#### 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	3-May-10
Draft Notification letter to purchasers	3-May-10
Press release (if applicable)	N/A
Recall Service Bulletin (RSB)	3-May-10
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.**

10005