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11V-516
(6 pages) Amended



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

DEFECT AND NONCOMPLIANCE REPORT - DOMESTIC

Description:	Inadvertent increase in vehicle speed
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Internal Code:	11027	Date of Report:	12/9/2011
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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 contact for recall information:

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Preparer's Signature: Wesley D. Chestnut

I. IDENTIFY THE US BOUND VEHICLE MODELS INVOLVED IN THE RECALL

Make:	Spartan Motors Chassis, Inc.			
Model(s):	APG, K2, K3, MG, MM and NVS			
Model Years Involved:	2009, 2010, 2011 and 2012			
Vehicle Type:	Incomplete Recreational Vehicle Chassis			
Weight Range:	From GVWR:	28,000	To GVWR:	50600 lbs
Weight Class:	From Class:	7	To Class:	8
Beginning VDM:	10/4/2007		Ending VDM:	3/10/2011
% Potentially Involved:	100%			

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

Vehicles subject to this recall may be equipped with a electronic control module part number 2791-NN2E-001, 2791-NN2F-001, 2791-NN2E-002 or 2791-NN2F-002. Other vehicles may be equipped with control modules of a different part number.

II. IDENTIFY THE RECALL POPULATION

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

MODEL	MODEL YEAR	No. POTENTIALLY INVOLVED
K2	2009	43
MG	2009	312
MM	2009	67
NG	2009	52
APG	2009	1
K2	2010	84
K3	2010	8
MG	2010	268
MM	2010	106
NG	2010	38
NVS	2010	303
APG	2010	1
K2	2011	86
K3	2011	22
MG	2011	267
MM	2011	120
NG	2011	17
NVS	2011	2
MG	2012	6
MM	2012	1
TOTAL:		1804

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:

The recall population has been determined based on the specific control module part number and switch pod assembly which control the cruise control feature of the vehicle.

III. DESCRIBE THE DEFECT OR NONCOMPLIANCE

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.

Certain recreational vehicles chassis produced by Spartan Motors Chassis, Inc. may exhibit an inadvertent, increase in vehicle speed after the vehicle's cruise control is set. When the brake is applied and released, the cruise may resume and the vehicle speed may continue to increase.

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

Contamination in the control module in or around the spark gaps may cause an electrical path that may result in a temporary simulation of "Cruise Resume" switch function which activates based on the values of design logic.

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

If the vehicle speed increases and the driver is unaware, he/she may have reduced stopping distance in the event he/she needs to slow and subsequently stop the vehicle. This could lead to a vehicle crash.

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

This may occur 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:	Control Module
Supplier Part Number:	N/A
Spartan Part Number:	2791-NN2E-001 2791-NN2F-001 2791-NN2E-002 2791-NN2F-002
Supplier Corporate Name:	Ametek/Dixson
Address:	28727 Road Grand Junction, CO 81503-1900
CEO or Knowledgeable Rep:	Steve Gauthier

IV. PROVIDE THE CHRONOLOGY IN DETERMINING THE DEFECT/NONCOMPLIANCE

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.

See Attachment A

V. IDENTIFY THE REMEDY

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

The difference between the recall condition and the remedy is the replacement of the switching instruction resistance (LIN base) eliminating the potential of conflicting logic to the engine controller, as contamination may cause the temporary shorting.

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

The remedy component uses unique, non-ambiguous, digital addressing communication and the recall condition uses environmentally changeable resistive values.

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 supplier improved the control module by eliminating spark gaps during the March 2011 time frame. Therefore current production modules (2791-NN2G-001 and 2791-NN2G-002) do not contain spark gaps.

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.

See below

VII. FURNISH RECALL COMMUNICATIONS

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	9-Jan-12
Draft Notification letter to purchasers	9-Jan-12
Press release (if applicable)	N/A
Recall Service Bulletin (RSB)	9-Jan-12
Notification Envelope	Pre-Approved

The manufacturer's campaign identification number if not identical to the number

11027

11V516.Attachment A

- 12AUG11** - Compliance is made aware consumer complaints of vehicle exhibiting increase in speed without operator intervention while cruise control function is set.
- 13AUG11** - Compliance begins a review of all known complaints involving vehicle speed increase while cruise control is set.
- 17AUG11** - Spartan Motors Chassis, Inc. receives new customer complaint of vehicle exhibiting increase in speed without operator intervention while the cruise control function is set. Engineer travels to the location of the recreational vehicle to investigate. However, the symptom could not be duplicated. There were no problems identified
- 30AUG11** - Compliance completes initial data analysis of the complaint.
- 06SEP11** - Vehicle that exhibited the failure mode is returned to Spartan Motors Chassis, Inc. for review. After several attempts and >900 miles of driving, the failure mode could not be duplicated.
- 19SEP11** - Compliance reviews a simulation created by Electrical Engineering that was used to simulate the potential cause. The review of the simulation proved to be inconclusive.
- 23SEP11** - Spartan Motors Chassis, Inc. receives new customer complaint of vehicle exhibiting increase in speed without operator intervention while the cruise control function is set. Arrangements are made to have Service Engineer travel to the location to trouble shoot. Service Engineer could not replicate the symptom.
- 03OCT11** - Electrical Engineers identify contamination on a control module and suspect contamination to act as an attribute to cause the failure mode.
- 10OCT11** - Compliance reviews all information with the organization. The organization determines this is a defect relating to motor vehicle safety and may exist in certain vehicles.
- 11OCT11** - Spartan Motors Chassis, Inc. receives two new customer complaints of vehicle exhibiting increase in speed without operator intervention while the cruise control function is set. Arrangements are made to have Service Technicians travel to the location to trouble shoot.
- 14OCT11** - Ametek is asked to aid in determining where control board contamination may be getting introduced.