



**Spartan Chassis, Inc.**

1000 Reynolds Road - Charlotte, MI - 48813

**573 DEFECT & NONCOMPLIANCE REPORT**

|                       |                                                                     |                        |          |
|-----------------------|---------------------------------------------------------------------|------------------------|----------|
| <b>Description:</b>   | Safety Defect Report for WABCO Steering Angle Sensor (Ref. 09E-032) |                        |          |
| <b>Internal Code:</b> | 09008                                                               | <b>Date of Report:</b> | 6/5/2009 |

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

Attn: Mrs. Delia Lopez, 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:**

**Customer Notification / Customer Service:**

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

**Report prepared by:**

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Senior Compliance Analyst  
Product Assurance  
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**Preparer's Signature:**

A handwritten signature in black ink, appearing to read "Wes Chestnut", is written over a horizontal line.

RECEIVED  
2009 JUN -9 P 1:24  
OFFICE OF DEFECTS  
INVESTIGATION

## 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 Chassis    |                    |          |
| <b>Model:</b>                  | FUR, GLD, MTR      |                    |          |
| <b>Model Years Involved:</b>   | 2008 and 2009      |                    |          |
| <b>Vehicle Type:</b>           | Fire Apparatus     |                    |          |
| <b>Weight Range:</b>           | From GVWR: 42K lbs | To GVWR:           | 82K lbs  |
| <b>Weight Class:</b>           | From Class: 8      | To Class:          | 8        |
| <b>Beginning VDM:</b>          | 1/29/2008          | <b>Ending VDM:</b> | 5/6/2009 |
| <b>% Potentially Involved:</b> |                    |                    |          |

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

The units in the recall population are equipped with the suspect steering angle sensor as supplied by Meritor Wabco through Douglas Autotec.

## 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 |
|--------|------------|--------------------------|
| GLD    | 2008       | 35                       |
| MTR    | 2008       | 11                       |
| GLD    | 2009       | 7                        |
| MTR    | 2009       | 3                        |
| FUR    | 2008       | 1                        |
|        |            |                          |
|        |            |                          |
|        |            |                          |
|        |            |                          |
|        |            |                          |
|        |            |                          |
|        |            |                          |
|        |            |                          |
| TOTAL: |            | 57                       |

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

**Approximate Defect Percentage:** 86%

**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:**

In review of the shipping paper work from Douglas Autotec and Meritor Wabco, Spartan Chassis determined a date range in which we received product from the 2 named suppliers. Spartan Chassis then determined a potential population of units in which the suspect steering angle sensors may have been installed. Subsequently, Spartan Chassis identified the vehicle dates of manufacturing.

### 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.**

Please refer to Meritor Wabco recall 09E-032 with regard to the nature and physical location of the defect on the steering angle sensor. The sensor is found on the steering column.

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

Please refer to Meritor Wabco 09E-032.

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

Please refer to Meritor Wabco 09E-032.

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

Please refer to Meritor Wabco 09E-032.

**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:   | Steering Angle Sensor                           |
| Supplier Part Number:     | 441 120 004 0<br>400 850 666 0<br>400 850 647 0 |
| Spartan Part Number:      | 0977-KK1-013 and 1615-KK1-001                   |
| Supplier Corporate Name:  | Meritor Wabco                                   |
| Address:                  | 2135 West Maple Road<br>Troy, MI 48084-7186     |
| CEO or Knowledgeable Rep: | Anne Balkcom                                    |



#### **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.**

01JUN09 - Meritor Wabco sent formal notice of safety recall of the steering angle sensor.

**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 Chassis will direct the affected customers to a service center to have an inspection and replacement of the steering angle sensor performed per Meritor Wabco's directions supplied in 09E-032.

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

Please refer to 09E-032

**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.**

Please refer to 09E-032.

## 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.

12JUN09 - Notice to final stage manufacturers.  
19JUN09 - Notice to customer and dealers.

## 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 | 12-Jun-09                 |
| Draft Notification letter to purchasers    | 19-Jun-09                 |
| Press release (if applicable)              | N/A                       |
| Recall Service Bulletin (RSB)              | 19-Jun-09                 |
| Notification Envelope                      | Preapproved               |
|                                            |                           |
|                                            |                           |
|                                            |                           |

*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.

09008