


Spartan Chassis, Inc.

1165 Reynolds Road - Charlotte, MI - 48813

(8 Pages)

573 DEFECT & NONCOMPLIANCE REPORT

05 V-146

Description:	Air Gauge PSI Reading does not Match Actual System PSI		
Internal Code:	SPEC 05008	Date of Report:	4/12/2005

Submitted to: Associate Administrator for Safety Assurance
 National Highway Traffic Safety Administration
 400 Seventh Street, SW
 Washington, DC 20590

Attn: Mrs. Pat Wallace, Office of Defects Investigation
 Fax: (202) 366-7882

Manufacturer Identification: Spartan Chassis Inc
 1165 Reynolds Road
 Charlotte MI 48813

 Telephone: (517) 543 - 6400

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 OFFICE OF SAFETY INVESTIGATIONS

Corporate contacts for recall information:

Customer Notification and Customer Service:

Report prepared by:

Wayne Ridge
 Product Improvement Administrator
 Customer Service Operations
 Phone: (517) 543 6400 Ext: 445
 Fax: (517) 543 9264

Kelli A. Oberlin
 Compliance Administrator
 Product Assurance
 Phone: (517) 543 6400 Ext: 358
 Fax: (517) 543 7729

Preparer's Signature:

PART 573 Defect and Noncompliance Report

I. IDENTIFY THE VEHICLE MODELS INVOLVED IN THE RECALL

Make:	Spartan Chassis Inc		
Model:	NVS, MM, K2 and K3		
Model Years Involved:			
Vehicle Type:	Motorhome		
Weight Range:	From GVWR: 26,000	To GVWR:	66,600
Weight Class:	From Class: 6	To Class:	8
Beginning VDM:	1/6/2002	Ending VDM:	3/31/2005
% Potentially Involved:	100%		

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

The vehicles involved in this recall are all vehicles with NGI air pressure gauges.

II. IDENTIFY THE RECALL POPULATION

MODEL	MODEL YEAR	No. POTENTIALLY INVOLVED
K2-0118	2002	1
K2-0124	2003	2
K2-0129	2003	1
K2-0134	2004	1
K2-0137	2004	3
K2-0138	2004	1
K2-0139	2004	1
K2-0142	2004	13
K2-0146	2004	1
K2-0147	2004	1
K2-0149	2004	1
K2-0154	2004	1
K210410-003	2004 - 2005	16
K224360-012	2002	5
K224360-013	2002 - 2003	64
K224360-014	2003 - 2004	128
K224360-015	2003	23
K224360-016	2003	13
K224360-017	2004	10
K224360-018	2004	69
K224360-019	2004	7
K224360-020	2004 - 2005	100

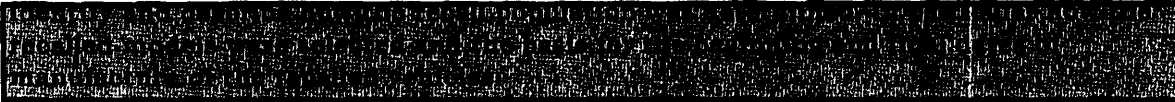
K2TRA1030-002	2002 - 2003	87
K2TRA1030-003	2002 - 2003	70
K2TRA1030-004	2003	6
K2TRA1030-006	2003	14
K2TRA1030-007	2003	20
K2TRA1030-008	2003	6
K2TRA1030-009	2003	9
K2TRA1030-010	2003 - 2004	43
K2TRA1030-011	2003 - 2004	102
K2TRA1030-013	2005	34
K3-0002	2003	1
K3-0004	2003	1
ME-0008	2003	4
ME-0012	2004	1
ME-0013	2004	13
ME-0016	2004	1
ME-0017	2004	1
MG-0070	2002	1
MG-0084	2003	1
MG-0089	2003	1
MG-0091	2002	1
MG-0092	2003	1
MG-0093	2003	1
MG-0094	2003	1
MG-0096	2003	1
MG-0097	2003	1
MG-0101	2003	3
MG-0102	2003	1
MG-0103	2003	1
MG-0104	2003	1
MG-0105	2003	1
MG-0109	2003	1
MG-0110	2004	1
MG-0111	2004	1
MG-0112	2004	1
MG-0113	2004	1
MG-0116	2004	6
MG-0117	2004	1
MG-0122	2004	1
MG-0139	2004	1
MG-0143	2004	1
MG-0144	2004	6
MG-0145	2004	4
MG-0146	2004	3
MG-0150	2005	5
MG21640-001	2002	19
MG21640-002	2003	3
MG21940-001	2002 - 2003	40

MG24360-010	2002 - 2003	73
MG24360-011	2002 - 2003	80
MG24360-012	2002 - 2003	235
MG24360-013	2002 - 2003	203
MG24360-015	2002 - 2003	7
MG24360-016	2002 - 2003	84
MG24360-018	2003	1
MG24360-019	2003	48
MG24360-021	2003	34
MG24360-023	2003 - 2004	130
MG24360-024	2003	2
MG24360-025	2003 - 2004	288
MG24360-026	2003 - 2004	8
MG24360-027	2003 - 2004	51
MG24360-028	2003	10
MG24360-029	2003 - 2004	126
MG24360-030	2004	7
MG24360-032	2004	10
MG24360-034	2004	16
MG24360-036	2004	97
MG24360-038	2004	7
MG24360-039	2004	2
MG24360-040	2004	59
MG24360-041	2004	17
MG24360-042	2004	1
MG24360-043	2004 - 2005	50
MG24360-044	2004	1
MG24360-045	2004 - 2005	54
MG24360-046	2004	12
MG24360-047	2004 - 2005	300
MG24360-048	2004 - 2005	12
MG24360-049	2004 - 2005	91
MG24360-050	2004 - 2005	245
MG24360-051	2004 - 2005	20
MG24360-052	2004	1
MG24360-053	2004	11
MG24360-055	2004 - 2005	13
MG24360-057	2004 - 2005	16
MG24360-059	2005	50
MG33240-003	2002 - 2003	19
MG33240-004	2002 - 2003	86
MG33240-005	2002 - 2003	68
MG33240-006	2003	18
MG33240-007	2003	24
MG33240-009	2003 - 2004	6
MGNAT1005-002	2004	9
MGTRA1030-002	2002 - 2003	73
MGTRA1030-003	2002 - 2003	132

MGTRA1030-004	2002	4
MGTRA1030-005	2002 - 2003	19
MGTRA1030-006	2003 - 2004	8
MGTRA1030-007	2003 - 2004	36
MGTRA1030-009	2003	23
MGTRA1030-012	2003 - 2004	5
MGTRA1030-013	2003 - 2004	85
MGTRA1030-014	2004 - 2005	50
MGTRA1030-015	2004	1
MGTRA1030-016	2004 - 2005	7
MGTRA1030-017	2004	2
MGTRA1030-018	2004 - 2005	32
MGTRA1030-019	2004 - 2005	15
MM-0149	2003	1
MM-0150	2003	1
MM-0151	2004	1
MM-0153	2004	1
MM-0154	2004	1
MM-0159	2004	1
MM24360-107	2003 - 2004	28
MM24360-108	2004 - 2005	122
MM24360-109	2004	8
MM24360-110	2004 - 2005	264
MMJAY1007-001	2002	10
MMJAY1007-002	2002	20
MMTRA1030-002	2002	1
MMTRA1030-005	2004	19
MMTRA1030-006	2004	7
MMTRA1030-007	2004 - 2005	24
MMTRA1030-009	2004 - 2005	27
NVS-0002	2004	4
NVS-0004	2005	2
SG-0024	2003	1
SG-0025	2003	2
SP-0031	2002	1
SP-0032	2003	3
SP-0033	2003	1
SP-0036	2004	1
SP-0037	2004	1
SP-0040	2004	2
SP19180-006	2002	1
TOTAL:		4735

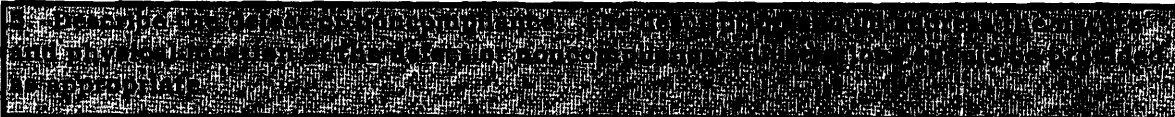
Approximate Defect Percentage:

100%



The query was done utilizing all Ametek Dixon NGI gauge kits. Reference part numbers: 1080-NN1-007, 1082-NN1-001, 1082-NN1-004, 1082-NN1-007, 1083-NN1-001, 1084-NN1-001, 1084-NN1-005, 1084-NN1-006, 1163-NN1-004, 1173-NN1-005, 1175-NN1-001, 1175-NN1-002, 1175-NN1-003, 1176-NN1-001, 1177-NN1-001, 1177-NN1-002, 1177-NN1-003, 1174-NN1-004, 1177-NN1-005, 1200-NN1-001, 1232-NN1-003, 1232-NN1-004, 1232-NN1B-003, 1233-NN1-001 and 1233-NN1B-001

III. DESCRIBE THE DEFECT OR NONCOMPLIANCE



The air pressure gauge located on the dash panel is giving a false reading. When the gauge reads 65 psi the true air system pressure is 43 psi.



The gauge manufacturer designed the gauges from two data points and a calculated linear scale. The sender does not produce a linear scale. The values sent by the sender and displayed by the gauge do not agree.



Spring (park) brake could engage without warning.



The low air warning alarm will sound, but there may not be enough time to react before the spring (park) brake engages.



Generic Component Name:	NGI Gauges
Supplier Part Number:	N/A
Spartan Part Number:	Reference Recall Population Definition
Supplier Corporate Name:	Ametek Dixon
Address:	2220 Corporate Drive Troy OH 45373-109
CEO or Knowledgeable Rep:	Edward Moritz-Director of Marketing and Sales

IV. PROVIDE THE CHRONOLOGY IN DETERMINING THE DEFECT/NONCOMPLIANCE

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

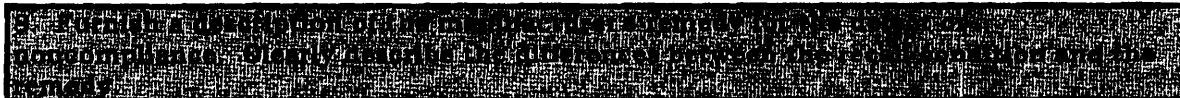


11/30/04 customer contacted Spartan with complaint of air pressure gauge reading high. Spartan Customer Service directed the owner to a service center who then tried many actions to correct the issue. The coach is released to the owner on 01/14/2005. The owner called back 02/02/05 with same complaint. Spartan sent him to another service center where they reviewed all grounds, then called Spartan on 02/07/05 for assistance. Spartan electrical engineering was contacted on 02/07/05 and begin to gather data on air pressure sender. Electrical Engineering concludes that the gauge is using a linear air pressure scale verses a five piece linear curve on 03/07/2005. On 03/07/2005 Spartan begins to work with vendor to manufacture jumper harness to correct the issue.



N/A

V. IDENTIFY THE REMEDY



The recall units and the current production units will have the same remedy. This remedy will be a jumper harness containing a 33 ohm resistor which will shift the resistance curve of the air pressure sender to match the alarm point of the current gauge. For future production a new gauge will be introduced to all Spartan products currently using the NGI version.



There is no difference between the remedy component and the recall component other then a recalibration and new part number assigned to the gauge.



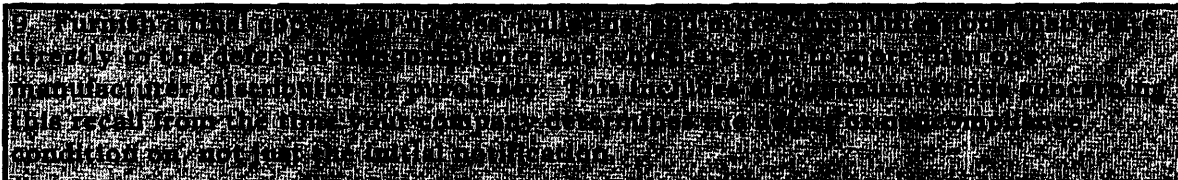
The short term production remedy will be identical to the recall remedy in the field. The long term production remedy will be to assign a new part number to the recalibrated gauge and discontinue the use of the jumper harness.

VI. IDENTIFY THE RECALL SCHEDULE



The recall bulletin and customer notification are complete as of 04/16/2005. The jumper harness is available to begin the recall 04/06/05. Jumper is available for production beginning 04/11/2005.

VII. FURNISH RECALL COMMUNICATIONS



DOCUMENT DESCRIPTION	DATE AND MANNER SUBMITTED
Notification letter to other manufacturers	TBD
Draft Notification letter to purchasers	N/A
Press release (if applicable)	N/A
Recall Service Bulletin (RSB)	TBD
Notification Envelope	Pre-approved
Notification Letter to Customer	4/16/2005

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



SPEC 05008