



SPARTAN CHASSIS, INC.

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NHTSA # 06V-156

RSB06-260-002

May, 2006

RECALL SERVICE BULLETIN

SUBJECT: Steering- Steering Gear Support Bracket

APPLIES TO: Spartan Chassis MM and K2 models manufactured February 5, 1998 through June 5, 1998 equipped with pitman arm part number 0945-KK1

CONDITION: Steering gear support bracket may break allowing the steering system to become inoperable

CAUSE: Excessive force applied to the steering gear bracket under static steer conditions

CORRECTION: Replace the steering gear support bracket.

**PLEASE READ THE ENTIRE BULLETIN BEFORE PROCEEDING WITH ANY WORK
AND CONTACT SPARTAN CHASSIS IF THERE ARE ANY CONCERNS WITH THE
PROCEDURES CONTAINED IN THIS DOCUMENT**

PART / SERVICE INFORMATION:

Labor Time: 3.0 Hrs.

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	S-1756-001	Kit- Steering gear support bracket
As needed	per label/equivalent	Hydraulic oil

Technical Service Bulletins are intended for use by Professional Technicians only. They are written to guide Professional Technicians in performing service to vehicles of product specific nature in conjunction with industry standards. Professional Technicians are appropriately trained on industry standards and have the tools and equipment to perform procedures safely and properly.



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Kit #S-1756-001 Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	1499-KK1-001	Supt- Steering Gear
1	07140200H8Z	Bolt- 7/16-14 x 2.00
1	0714LNZ	Lock Nut- 7/16-14
1	12100450H8B	Bolt- 3/4-10 x 4.50
1	1210LNZ	Lock Nut- 3/4-10
4	0229-BB1-005	Bolt- 3/4-16 x 1.50 w/lock patch
6	12SFWB	Flat Washer- 3/4
1	0229-BB1-006	Bolt- 7/8-14 x 2.00 w/lock patch
1	14SFWB	Flat Washer- 7/8
6	08130150FH8Y	Bolt- Flg Hd 1/2-13 x 1.50
6	0813FLN8Y	Nut- Flg Lock 1/2-13
1	0203-BB1-001	Cotter Pin
1	S-1757	Installation Drawing-Steering Gear Supt
1	RSB06-260-002	Document Instructions

STEP-BY-STEP INSTRUCTIONS:

1. Observe all industry safety standards and secure vehicle to allow for replacement of the steering gear support bracket.
2. Disconnect pressure and return hoses from steering gear and let drain.
3. Disconnect steering slip shaft from steering gear input shaft. Properly dispose of pinch bolt and nut.

NOTE: Before disconnecting slip shaft from gear, note position of shaft on gear to ensure proper alignment of steering wheel upon reinstallation.

4. Disconnect drag link from pitman arm. Retain castle nut for reinstallation. Properly dispose of cotter pin.
5. Remove steering gear support bracket from chassis. Properly dispose of fasteners.
6. Use a paint pen or similar tool to identify the index marks on the pitman arm and the steering gear output shaft for reinstallation.
7. Remove pitman arm from the steering gear output shaft. Properly dispose of the bolt, nut and washers.

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8. Remove steering gear from support bracket. Properly dispose of support bracket and all mounting hardware.

REFER TO DRAWING S-1757 FROM KIT FOR REASSEMBLY

9. Attach steering gear to the new support bracket using the hardware as indicated. DO NOT TORQUE AT THIS TIME.
10. Reinstall pitman arm to the output shaft using the new 3/4" pinch bolt, washers and nut. DO NOT TORQUE AT THIS TIME.

NOTE: Ensure the index marks are aligned.

11. Attach steering gear/support bracket assembly to the chassis frame rail using the new bolts and nuts as shown. Torque to 85 FT. LBS.
12. Torque the bolt/nut assemblies attaching the steering gear to the support bracket.
Item #10 - 7/8" bolt/nut assembly to 660 FT. LBS.
Item #2 - 3/4" bolt/nut assemblies to 420 FT. LBS.

NOTE: Do not rotate steering gear output shaft (pitman arm) any further than necessary to gain access to bolt heads or poppet setting may change.

13. Torque the 3/4" pitman arm pinch bolt to 240 FT. LBS.
14. Reinstall the pitman arm to the drag link and secure with castle nut and new cotter pin. Torque to 150 +/- 20 FT. LBS.
15. Reassemble steering slip shaft to the steering gear input shaft using new 7/16" pinch bolt and nut. Torque to 45 +/- 3 FT. LBS.
16. Reassemble pressure and return hoses to fittings on steering gear.
17. Add hydraulic oil to replace what was lost. Reference the label on the hydraulic reservoir for type.
18. Start engine and allow it to reach operating temperature.
19. Steer unit from stop to stop to bleed air from the steering system and check oil level during this process. Add oil as needed.

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