



SPARTAN CHASSIS, INC.

CSB07-230-002

December, 2007

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CAMPAIGN SERVICE BULLETIN

- SUBJECT:** Cab Tilt System – Tilt Cylinder
- APPLIES TO:** Certain Spartan Chassis produced as Gladiator's, equipped with the 2007 Classic Grille and having a VDM (Vehicle Date of Manufacture) of February 09, 2007 through September 14, 2007.
- CONDITION:** Contact between Classic 2007 Grille and Diamond plate bumper apron.
- CORRECTION:** Add tilt limit switch.

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

PART / SERVICE INFORMATION:

Labor Time: 1.0 hrs.

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	S-1918-001A	Kit-Cab Tilt Limit

Kit # S-1918-001A Contains:

<u>QTY.</u>	<u>Part Number</u>	<u>Description</u>
1	1016-EE1-001	Bracket-Cab Tilt Limit
1	1017-EE1-001	Plate-Cab Tilt Limit
2	0134-GG3-018	Switch Cab Tilt
1	0182-BB1-007	Clamp, Liner 2.06-3.00
2	08130200FH8B	Bolt - 1/2"-13 X 2.00" Flg. Gr.8
2	0813FLN8B	Nut - 1/2"-13 Flg.
1	0636-GG5-D11	Terminal M Spade .25
1	0636-GG5-E04	Terminal F Spade .25
2	0636-GG5-FO2	Terminal F Slev. W/P
2	0636-GG5-FO5	Terminal M Pin W/P
4	0636-GG5-FO7	Cable Seal
1	12010973	Connector F W/P Way

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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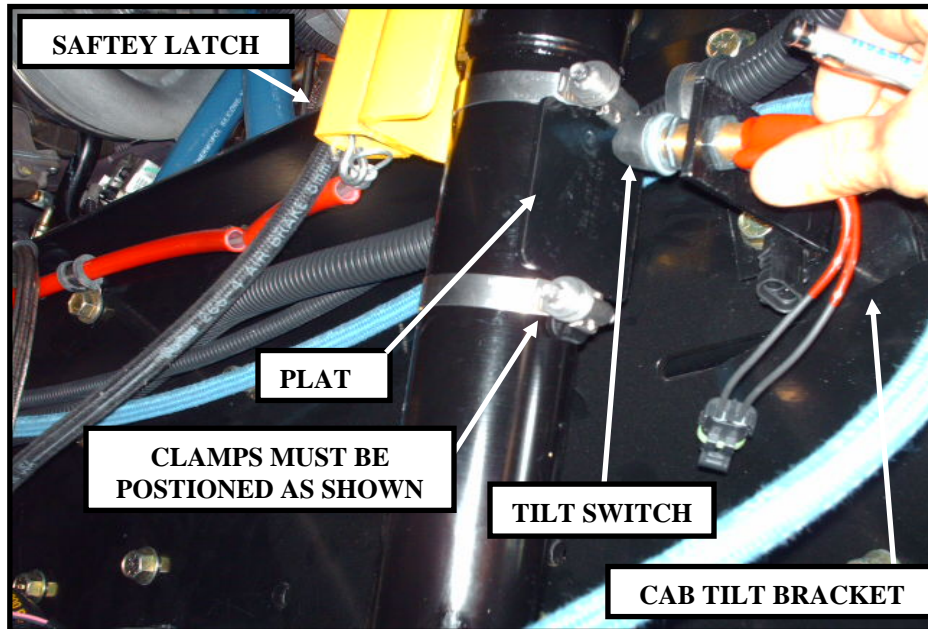
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1	12015792	Connector M W/P Way
16ft.	0740-GG5-E06	Wire -14 AWG Tan GXL
16ft.	0740-GG5-E07	Wire – 14 AWG Brown GXL
16ft.	A130129	Wire Convolute 1/4"
6	T-120RO	Cable Ties
1	CSB07-230-002	Document Instructions

STEP-BY-STEP INSTRUCTIONS:

1. Observe all industry safety standards, disconnect any necessary power source and secure vehicle for installation of cab tilt limit switch.
2. Follow the cab tilt instructions in the vehicle owner’s manual, or on the instruction plate located near the storage area of the tilt control mechanism/pendant; tilt/raise the cab. Take caution not to tilt the cab to the limit as this could cause contact between grille and bumper apron.
3. Refer to FIG.2-1. Install bracket to frame rail, using hardware provided in kit and secure.



CAB TILT LIMIT SWITCH

FIG. 2-1

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4. Install plate to tilt cylinder and secure using clamps provided in kit.

NOTE: Ensure the clamps are positioned as shown in FIG. 2-1.

5. Terminate wires on cab tilt limit switch with male weatherpak terminals and seals. Install male terminals into weatherpak connector.
6. Refer to FIG. 2-1 & 3-1. Install switch to bracket on frame, using jam nuts provided with switch. Adjust as needed for proper operation. Ensure the rubber is properly positioned as shown.
7. Using wires from kit terminate one end of both wires with female weatherpak terminals and seals. Install female terminals into weatherpak connector.
8. Insert both wires into the wire convolute provided in kit.
9. Terminate opposite end of wires with spade connectors supplied in kit.
10. Connect female and male weatherpak connectors together route wires back and across to the tilt pump. Install cable ties as needed ensuring there are no loose wires.
11. Refer to FIG. 4-1. Locate the tilt pump connections above the battery compartment.
 - 11a. Split wire convolute to locate the spade connectors that are hooked together.
 - 11b. Unplug spade connectors and plug in new wires just routed from tilt cylinder.
12. Refer to FIG. 4-2. There must be 1/2" of clearance between the Yellow safety latch and the top of the tilt cylinder to ensure proper operation. This may require re-adjusting the plunger on the tilt switch.
13. Follow the cab tilt instructions in the vehicle owner's manual, or on the instruction plate located near the storage area of the tilt control mechanism/pendant; tilt/lower the cab.
14. Check to ensure the grille and the diamond plate bumper do not make contact.
15. Reconnect any power source previously disconnected.



**CAB TILT SWITCH
FIG. 3-1**

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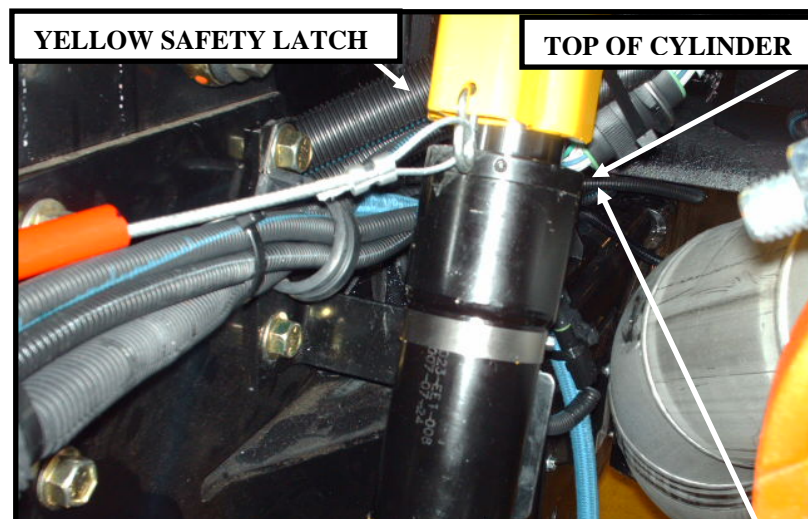
SPADE TERMINALS SHOWN SPLIT OUT FROM WIRE CONVOLUTE



WIRING FROM CAB TILT LIMIT SWITCH

BATTERY COMPARTMENT

FIG. 4-1



1/2" OF CLEARANCE MUST BE OBTAINED BETWEEN YELLOW SAFETY LATCH AND TOP OF CYLINDER FOR PROPER OPERATION

YELLOW SAFETY LATCH & TILT CYLINDER SHOWN

FIG. 4-2

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