



NGDV – Technical Bulletin

Title: Seat Belt Buckle Wire Harness Routing	
Number: NGDVTB014	Revision: -
Classification: Highly Restricted	

Exceeding Customer Expectations through Continuous Improvement



NGDV Technical Bulletin

NGDV Seat Belt Buckle Wire Harness Routing

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INTRODUCTION

Initial Concern

Due to an incorrect installation process, some NGDV have an improper routing of the wire that is part of the seat belt buckle assembly. This can lead to abrading of the wire insulation over time and result in Diagnostic Trouble Codes (DTCs) and Tell Tales on the Instrument Panel. The wire extends out of the rubber sleeve that houses the seat belt buckle and connects behind the seat.

Abraded wiring does not result in a loss of any function on the NGDV with the seat belt or any other safety features but if seen, should be replaced with a new seat belt buckle and installed in accordance with the instructions in this document. The labor and parts associated with this repair are covered under warranty and can be submitted in the OneWarranty System using a standard warranty claim.

Suspect Population

All ICE and BEV NGDV's

Materials List & Procedure

- Seat Buckle Assembly – Part Number: D008C482 (UPN: U028XA)
 - 7/16-20 Nut - Part Number: 3970554007 (UPN U028TA)
1. Remove current Seat Belt Buckle assembly
 2. Install new Seat Belt Buckle assembly and Nut and route sensor wire in accordance with the instructions provided in this Technical Bulletin.

Frequently Asked Questions

Q: Are all NGDV's affected and in need of this procedure?

A: No, not all NGDV are affected as this assembly is done manually within the manufacturing facility. Some vehicles have been assembled correctly and do not need repair and others have not and might require repair over time or if DTCs or Tell Tales are seen.

Q: What happens if the outlines steps are not followed?

A: If the Technical Bulletin is not followed, the replacement made is prone to the same possibility for wear at the harness and eventual DTCs or Tell Tales.

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REWORK TOOLS AND MATERIAL LIST

Tools

- T50 6-lobed Torx bit



- 60 ft-lb Torque Wrench
- 17mm holding Wrench

Consumables

- None

Personnel Requirements

- Procedure: .5hrs Total Man Hours
- 1 person will be required for this job.

PROCEDURE

1. Ensure vehicle is in Park and turned OFF.
2. Inspect your NGDV for the following Tell Tales or Messages on the Instrument Panel
 - a. "Rear Belt Monitor Fault" message displayed on dash
 - b. "Auto Hold System Fault" message displayed on dash Unprompted electronic parking brake activation when speed \approx 0 mph
 - c. "Park Brake Use Switch to Release" message displayed on dash
 - d. Air Bag Illuminated solid (IPC Telltale)
3. Validate the Tell Tales you've witnessed have DTCs that are associated with an open short in this wire harness suggesting that the seat belt and wire harness needs to be replaced. DTCs can be read using the Oshkosh Diagnostic tool when connected to the OBDii port.
 - a. C1A05-11 Driver buckle switch pin open
 - b. C1A06-12 Driver buckle switch pin open-Circuit Open
 - c. C1A07-13 Driver buckle switch pin open- Circuit Open
 - d. C1A08-1D Driver buckle switch not correct input
4. If you have any of the above DTCs, remove the seat belt buckle from the vehicle as shown below. The removed part can be discarded and is not needed for failure analysis.
5. Install the new part following the steps below:

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- a. Remove the T50 Torx bolt securing the seat belt to the seat by using an T50 torq bit and an 17mm wrench to secure the nut on the back side represented by the red-dashed rectangle in *Figure 1*. Discard the hardware as it is NOT re-usable.
- b. Disconnect the MC-18-A connector at the back of the seat as shown in *Figure 1*. Press down on the locking tab of the connector and pull the female portion of the connector towards the roadside of the vehicle.

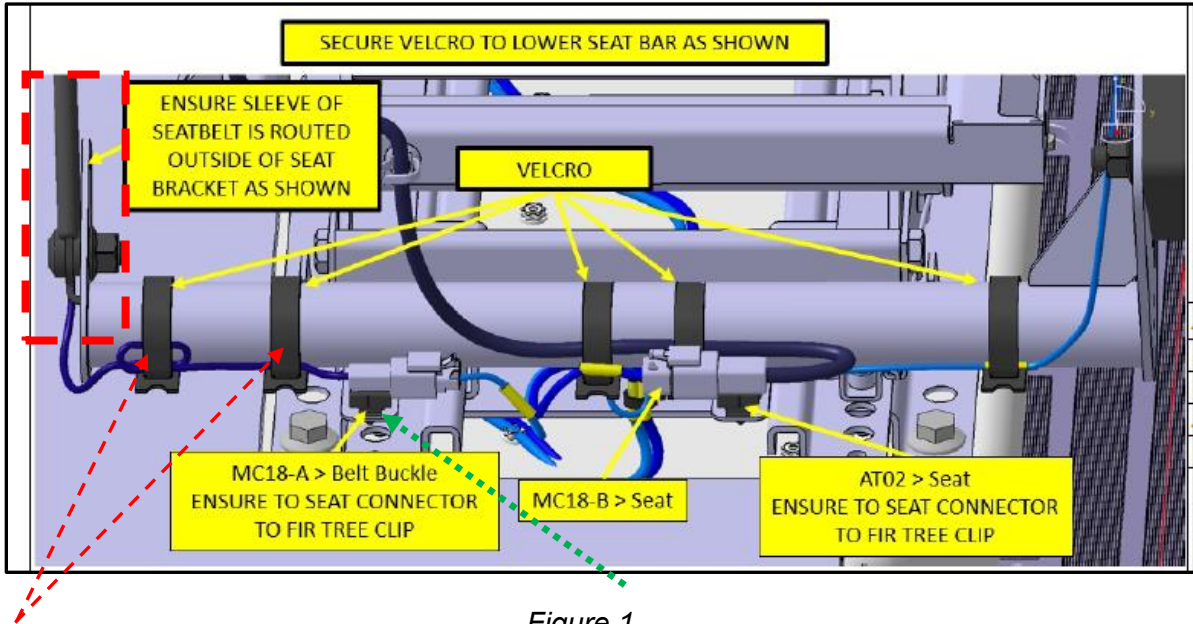


Figure 1

6. Undo the 2 velcro straps that secure the wire harness to the seat frame. Only remove the 2 left Velcro straps noted by the red-dashed arrows as illustrated in *Figure 1*. Save the Velcro straps as they will be used in the reassembly of the new buckle/harness.
7. Disconnect old buckle/harness pigtail from the connector clip at MC18-A with a flat head screwdriver. This fir tree is noted in *Figure 1* with the green-dotted arrow.
 - a. The removed buckle/harness can be discarded and does not need to be sent back to Oshkosh.
8. Install the new Seat Belt Buckle by placing the bolt through the seat frame and hand tighten the nut on the back side as shown in *Figure 1* again using the 17mm wrench and the T50 6-lobed Torx bit.
 - a. Torque the bolt to 60 ft-lbs
9. Route the harness of the Seat Belt Buckle as shown in *Figure 2* with the wire harness on the bottom or beneath the bolt.

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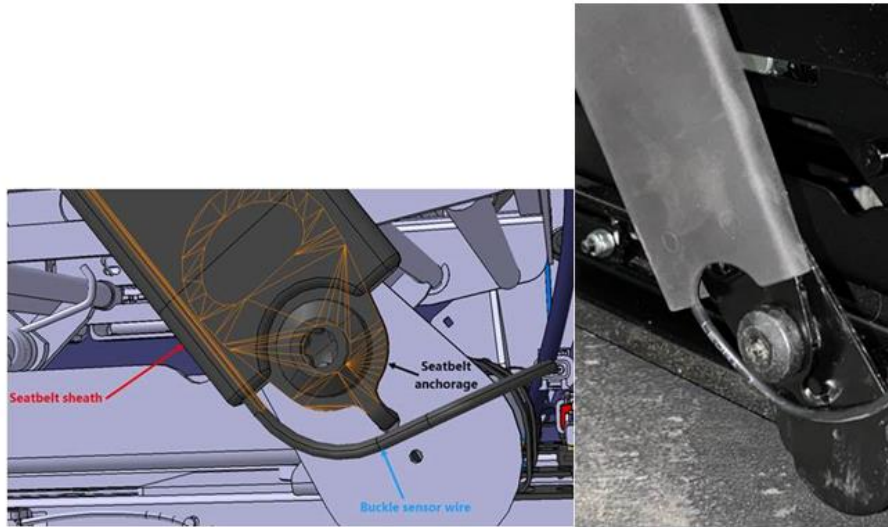


Figure 2

10. *Figure 3* shows **incorrect** assembly configurations where the seat buckle sleeve is installed over part of the seat frame. These situations can lead to chaffing of the seat belt buckle wire and cause additional replacements of the Seat Belt Buckle.



Figure 3 – INCORRECT ROUTINGS

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11. Route the remainder of the harness as shown in Figure 4 where the harness is secured to the bottom of the seat frame tube and has an approximate 3.0” to 5.0” loop in the harness secured by the first Velcro Strap as noted by the red-dashed line.

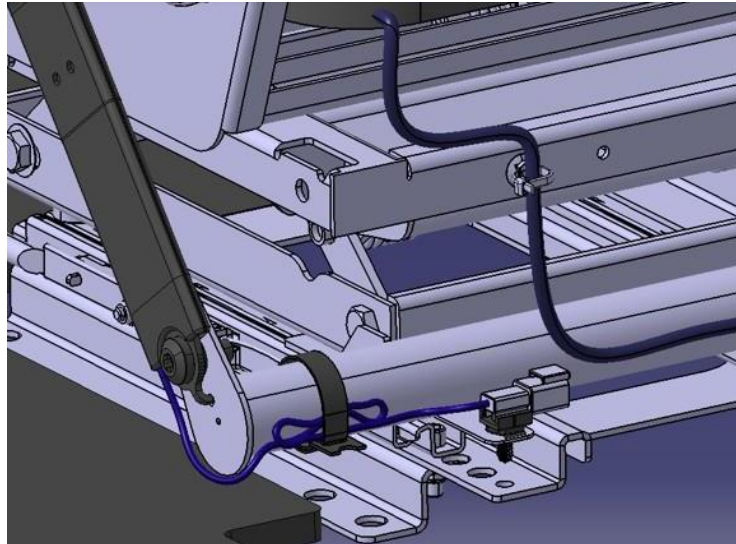


Figure 4

12. Secure the remainder of the harness in the next Velcro loop and plug in the MC18-A connector by pushing the female portion of the connector into the male portion of the connector until it is locked or a “click” is heard.

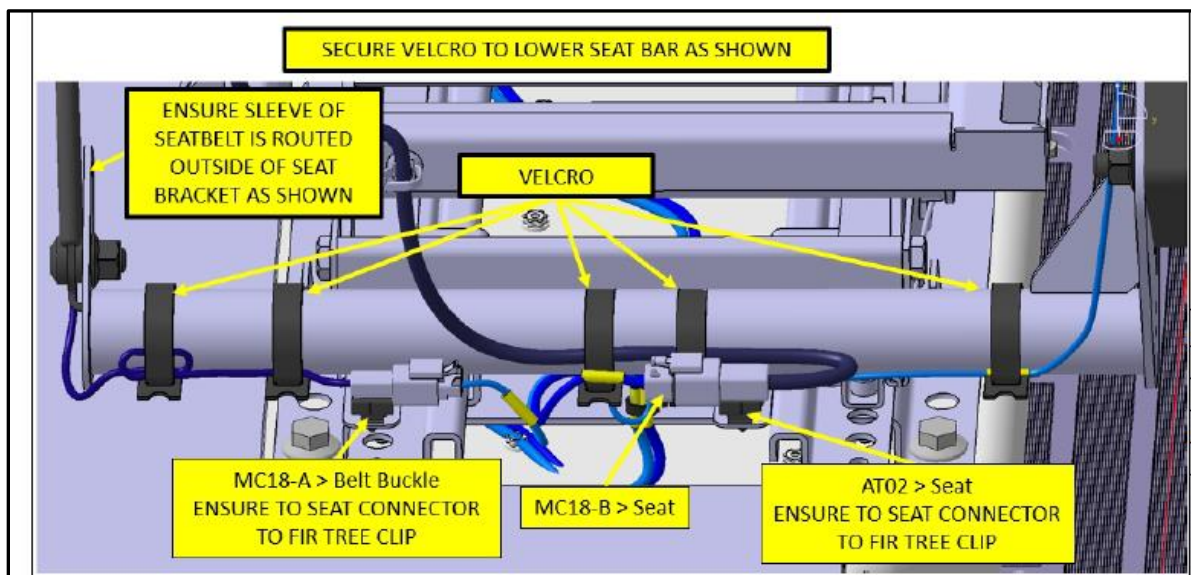


Figure 5

13. Repair is complete and can be returned to service.



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Revision	Date	Description	Requestor
-	3/30/2026	Initial Draft	USPS

Contact Information

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