

ON ISIS

FEB 10 2021

Compliance Dept

MAILED

FEB 17 2021

By: COMPLIANCE

# ***SERVICE PROCEDURE***

20510  
January 2021

**SUBJECT: SAFETY RECALL**

**Stationary PTO on certain HV® series trucks built 05/01/2019 thru 11/09/2020, MV® series trucks built 12/04/2017 thru 11/12/2020, DuraStar® models built 10/08/2013 thru 08/16/2019, and WorkStar® models built 12/15/2014 thru 04/05/2017 with feature code 12VXT (Engine Speed Control; Electronic, Stationary, Variable Speed) or 12VXU (Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings)**

**DEFECT DESCRIPTION**

On certain trucks equipped with an automatic transmission, if the automatic transmission is still in drive or reverse position and the stationary PTO switch is engaged, the engine RPM could ramp up and may overcome parking brake hold capability resulting in possible vehicle movement. Unexpected movement of the truck from the park position can increase the risk of property damage or personal injury.

**MODELS INVOLVED**

This safety recall involves certain HV® series trucks built 05/01/2019 thru 11/09/2020, MV® series trucks built 12/04/2017 thru 11/12/2020, DuraStar® models built 10/08/2013 thru 08/16/2019, and WorkStar® models built 12/15/2014 thru 04/05/2017 with feature code 12VXT (Engine Speed Control; Electronic, Stationary, Variable Speed) or 12VXU (Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings).

**ELIGIBILITY**

This procedure applies ONLY to vehicles marked in the Navistar Service Portal with safety recall 20510. Also complete any other open campaigns listed on the Service Portal at this time.

## **PARTS INFORMATION**

There are no parts for this campaign.

## **TOOLS INFORMATION**

<b>Part Number</b>	<b>Tool Description</b>	<b>Quantity</b>
N/A	EZ-Tech®	1
N/A	Cummins Insite	1
N/A	Approved USB Communication Interface	1
PSC550CC	Battery Charger 55 Amp	1

## **SERVICE PROCEDURE**

**WARNING!** TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, PARK VEHICLE ON HARD FLAT SURFACE, TURN THE ENGINE OFF, SET THE PARKING BRAKE AND INSTALL WHEEL CHOCKS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.

**WARNING!** TO PREVENT PERSONAL INJURY AND / OR DEATH, ALWAYS WEAR SAFE EYE PROTECTION WHEN PERFORMING VEHICLE MAINTENANCE.

**WARNING!** TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY, AND / OR DEATH, KEEP FLAMES OR SPARKS AWAY FROM VEHICLE AND DO NOT SMOKE WHILE SERVICING THE VEHICLE'S BATTERIES. BATTERIES EXPEL EXPLOSIVE GASES.

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral and set parking brakes.
3. Turn vehicle ignition to Key OFF position.
4. Install wheel chocks.
5. Connect battery charger / maintainer to vehicle battery.
6. Connect EZ-Tech to vehicle with approved USB communication interface.
7. Turn ignition key to on position, engine off.
8. Connect to Cummins Insite.

Features and Parameters	ECM Value	Units
Intake Air Heater	Enable	
1939 Controls	Enable	
Maintenance Monitor	Disable	
OEM Ambient Air Temperature Sensor	Enable	
OEM Variable Rate Vehicle Acceleration Management	Disable	
Parking Brake Switch	Enable	
Powertrain Protection	Disable	
<b>PTO</b>	<b>Enable</b>	
Additional Switch Speed	1200	RPM
Maximum Engine Load	800	ft <sup>3</sup>
Maximum Speed	1800	RPM
Maximum Vehicle Speed	6	mph
Minimum Speed	600	RPM
Ramp Rate	500	rpm/s
Resume Switch Speed	1000	RPM
Set Switch Speed	1200	RPM
PTO Speed 1 Device		
PTO Speed 2 Device		
PTO Speed 3 Device		
PTO Speed 4 Device		
PTO Speed 5 Device		
PTO Speed 6 Device		
PTO Speed 7 Device		
PTO Speed 8 Device		
Accelerator Pedal or Lever Override	Disable	
Alternate Operation	Disable	
Cab PTO	Enable	
Clutch Override	Disable	
Ignore Vehicle Speed Source in PTO	Disable	
Parking Brake Interlock Type	None	
PTO Pump Mode	Enable	
Remote PTO	Enable	
Remote Station PTO	Disable	
Service Brake Override	Enable	
Transmission Driven PTO	Disable	
Transmission Neutral Interlock	Disable	
Ignore Vehicle Speed Source Limit	Disable	

Figure 1

- 1 Features and Parameters button
- 2 PTO menu
- 3 Parking brake interlock / value
- 4 Transmission neutral interlock / value
- 5 Maximum vehicle speed interlock / value

9. Select Features and Parameters button (Figure 1, Item 1) from the menu table on left side.

**NOTE: PTO must be on “ENABLE” in order to modify parameters below it.**

10. Scroll down to PTO menu Figure 1, Item 2).

11. For the following PTO parameters, set them as follows.

- a. Parking Brake Interlock Type: ALL (Figure 1, Item 3).
- b. Transmission Neutral Interlock: ENABLE (Figure 1, Item 4).
- c. Maximum Vehicle Speed: 2mph / 3.2kmh (Figure 1, Item 5).

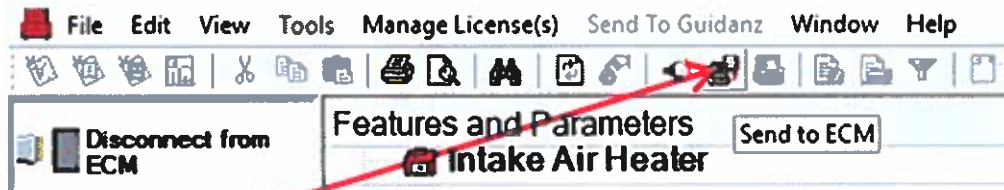


Figure 2  
1 Send to ECM button

12. Select the Send to ECM button (Figure 2, Item 1) from the menu table at the top.
13. Once send has completed, turn ignition key to off position and wait 30 seconds.
14. Turn ignition key to on position, engine off and verify parameter settings have been saved.
15. Disconnect EZ-Tech from vehicle.
16. Remove battery charger / maintainer from vehicle battery.
17. Turn ignition key to off position.
18. Remove wheel chocks.

## END OF SERVICE PROCEDURE

### LABOR INFORMATION

Operation Number	Description	Time
A40-20510-1	Reset Parameters	0.5 hrs.

### CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected in accordance with this campaign must be marked with a CTS-1075 Campaign Identification Label.

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.



## ADMINISTRATIVE / DEALER RESPONSIBILITIES

### WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Safety Recall 20510.

Section 7 of the Warranty Policy and Procedures manual contains further information related to the submission and processing of AFC/Recall claims.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, a barrel of oil, or a tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP — Enter number						
NOUN — Leave blank						
C (CAUSE) — Enter either 1, 2, 3. (See below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY — (Warranty Code) Enter 40.						
TYPE PART — Enter P for type part causing failure.						
PAD — Enter 100						

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### UNITED STATES AND POSSESSIONS

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to replacement with an identical or reasonable equivalent vehicle at no charge, or to a refund of the purchase price less a reasonable allowance for depreciation.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

## **CANADA**

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

## **EXPORT**

Export Distributors should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your distributor location.

Export Distributors are to submit warranty claims in the usual manner making reference to this recall number.

Export Distributors are expected to provide full cooperation and follow-up with respect to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

**NAVISTAR, INC.**

