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Vehicles and Powertrains Affected:			
► Western Star 47X, 48X, 49X	► Detroit Engines	► PY 2026	►
► Freightliner M2 Plus and SD Plus	► Cummins Engines	►	►

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Application of this document is restricted to Freightliner® and Western Star® trucks with enhanced CEEA+ electrical architecture for production year 2026 and beyond.

GENERAL

This document is intended for trucks equipped with Detroit Assurance and explains how a partial camera obstruction affects Detroit Assurance features and how to adjust system parameters to disable unsupported features.

MPC PARTIAL CAMERA OBSTRUCTION

The Multi-Purpose Camera (MPC) is designed to work with an unobstructed field of view (FOV) and clear centerline of sight. Blocking the FOV may trigger a camera blockage error and disable or restrict some Advanced Driver Assistance System (ADAS) features.

While full operation of Detroit Assurance features requires an unobstructed view from the MPC, a partial vertical FOV of up to 50% (20°) is allowed as long as the center line of sight remains unobstructed. However, the following Detroit Assurance features must be disabled or modified.

- Lane Departure Warning / Driver Attention Monitoring
- Adaptive Cruise Control Plus (ACC+)
- Intelligent Headlight / Wiper Control
- Traffic Sign Display

Although ACC+ is not possible with an obstructed MPC view, Adaptive Cruise Control (ACC) and Cruise Control (CC) are available.

Refer to 36-00082 Camera - Detroit Assurance, Forward Facing, Multi-Purpose (MPC), 73B for details on obstructed views and partially-obstructed views.

REFERENCES

36-00082 Camera - Detroit Assurance, Forward Facing, Multi-Purpose (MPC), 73B

WARRANTY

This document is informational only. Warranty does not apply.

PARAMETERS

The parameters listed in the following sections will disable Detroit Assurance features that are not supported due to an obstructed MPC view. The tables also provide parameter settings to enable standard ACC or CC.

Table 1 lists sales codes when the MPC view is obstructed.

Sales Code	Description
736-142	Detroit Assistance, Active Brake Assist 5 (ABA 5), with standard ACC, and Fixed Headway.
736-143	Detroit Assistance, ABA 5, with standard ACC, and Adjustable Headway.
736-139	Detroit Assistance, ABA 5, without ACC.

Table 1, Sales Codes with an Obstructed MPC View

Table 2 lists sales codes that will disable the lane departure warning and traffic sign display.

Sales Code	Description
73B-033	Lane departure warning: Detroit camera with no lane departure warning system.
73U-998	Traffic sign display: No road sign imaging / response system.

Table 2, Sales Codes to Disable Lane Departure Warning and Traffic Sign Display

Table 3 lists sales codes that will disable intelligent headlamp and wiper control.

Sales Code	Description
304-030	Rotary Headlamp Switch, Marker Lights / Headlights Switch with pull out for optional Fog / Road Lamps.

Table 3, Sales Codes to Disable Intelligent Headlamp and Wiper Control

Parameter Adjustment

Disabling unsupported Detroit Assurance features prevents the system from attempting to operate functions that rely on unobstructed camera input. Verify that no erroneous driver messages or diagnostic faults are present after implementing the following chnages.

Disable ACC+

Use the parameters listed in Table 4 to disable ACC+ and enable ACC or CC.

ECU	Domain	Parameters	Values if the New Configuration is Using ACC	Values if the New Configuration is Using CC
CGW04T	GVCData	`GVC Adaptive Cruise Control Function`	ACC	CC
CGW04T	GVCData	`GVC Distance Warning`	AVL	NA
CPC05	30-Cruise Control	`CC Start Function Mode`	Adaptive CC	CC

Table 4, Parameters Used to Disable ACC+

Configure Detroit Assurance Parameters in the ICUC or ICC5

For trucks equipped with an ICUC, configure the parameters in Table 5 based on whether ACC or CC is used. When ACC is selected, choose either adjustable headway or fixed headway.

ECU	Domain	Parameters	Values if the New Configuration is Using ACC with Fixed Headway	Values if the New Configuration is Using ACC with Adjustable Headway	Values if the New Configuration is Using CC
ICUC01T	PID 0x43 (FTL Config)	`paramDASMenuHysterisis`	Not Available	Available	Not Available
ICUC01T	PID 0x43 (FTL Config)	`paramACCDistanceMode`	Distance	Distance	Not part of CC (no value to set)

ICUC01T	PID 0x45	`param TSRMenu`	Not Available	Not Available	Not Available
ICUC01T	PID 0x45 (FTL Config)	`paramALA menu`	Not Available	Not Available	Not Available

Table 5, ICUC Parameters

For trucks equipped with an ICC5, configure the parameters in Table 6 based on whether ACC or CC is used. When ACC is selected, choose either adjustable headway or fixed headway.

ECU	Domain	Parameters	Values if using ACC with Fixed Headway	Values if using ACC with Adjustable Headway	Values if using CC
ICC501T	PID 0x40 Vehicle Configuration Parameters	`PT_CRC_SetACCDist_AVL`	Not Available	Available	Not Available
ICC501T	PID 0x43 FTL configuration	`PD_MenuAvailability_TSR`	Not Available	Not Available	Not Available
ICC501T	PID 0x26 Software component enable parameters	`PT_ALA_Enable`	Disabled	Disabled	Disabled
ICC501T	PID 0x26 Software component enable parameters	`PT_LDW_Enable`	Disabled	Disabled	Disabled
ICC501T	PID 0x28 Virtual switch parameters	`PT_LDW_Sw_AVL`	Not Available	Not Available	Not Available
ICC501T	PID 0x28 Virtual switch parameters	`PT_ALA_LaneKeepingSw_AVL`	Not Available	Not Available	Not Available
ICC501T	PID 0x28 Virtual switch parameters	`PT_ALA_LaneKeepingOFFSw_AVL`	Not Available	Not Available	Not Available

Table 6, ICC5 Parameters

Disable Lane Departure Warning and Driver Attention Monitoring

Use the parameters listed in Table 7 to disable lane departure warning and driver attention monitoring. Driver attention monitoring uses logic in the MPC software and will be affected.

ECU	Domain	Parameters	Value
CGW04T	GVCData	GVC Lane Departure Warning System	NA
CGW04T	GVCData	GVC Driver Attention Monitoring	NA
SSAM02T	MSC MSF Vehicle Config	MSC MSF Vehicle Config Switch_029	Switch Not Present

Table 7, Parameters to Disable Lane Departure Warning and Driver Attention Monitoring

Disable Traffic Sign Recognition

Use the parameters in Table 8 to disable traffic sign recognition.

ECU	Domain	Parameters	Value
CGW04T	GVCData	GVC Traffic Sign Recognition Function	NA

Table 8, Parameters to disable Traffic Sign Recognition

Disable Intelligent Headlight / Wiper Control

Use the parameters in Table 9 to disable intelligent headlight and wiper control.

ECU	Domain	Parameters	Value
CGW04T	GVCData	GVC Intelligent Headlight Control Function	NA
SSAM02T	ELC Head lamp switch pos2	PELC_hls2_ihc_available	Not Present
SSAM02T	GPC Global Parameter Control	PGPC_LgtSens	Not Available
SSAM02T	WWC Rain-Light Sensor	None	Disable 43N
SSAM02T	GPC – Continued	PGPC_GVC_IHC_func	Disabled

Table 9, Parameters to Disable Intelligent Headlight and Wiper Control