

## Solution K24992549 Wednesday, August 29, 2018 6:13:55 PM CEST

#### **Mack Models**

Mack Model	TE-TerraPro , LR , GR-Granite , PI-Pinnacle , AN-Anthem , CHU , CXU , GU	
Volvo Models		
Volvo Model	VNR, VNX, VNL, VHD, VAH	
Engine family		
Engine family	11L Engine, 13L Engine, MP7, MP8	
<b>Emission Standard</b>		
Emission Standard	US17 GHG	
** SOLUTION **		
Title	Engine Control Module (EMS) Software (MSW) Information; Improvement List (Change Log) And Explanations For Issues And Diagnostic Trouble Codes (DTC, Fault Codes) US17+OBD2016 Emissions, Model Year 2018 (Common Rail Fuel System ONLY)	
Cause	The purpose of this CBR is to give information on Engine Control Module (EMS) Software content. This document lists issues or problems (DTCs, Fault Codes) mitigated or resolved in specific EMS software. The newest EMS Main Software (MSW) part number typically includes improvements from previous EMS software releases, and updating to the latest part number will most often cover items listed for older software releases.	
Solution	Vehicles equipped with Variable Geometry Turbocharger will be referred as VGT.  Vehicles equipped with Turbo Compound will be referred as TC.	

### **Software Release Table (Latest information at top)**

Date Available Via PTT	VGT MSW Part #	TC MSW Part #
June 2018 (Current)	23398790	23399381
February 2018	23242993	23242996
On or Before February 2018	23245812 or older	23245806 or older

EMS software improvements with MSW Part Number 23398790 / 23399381. Available from June 2018.

**All Vehicles** 

- Reduces occurences of **P04DB** Crankcase Ventilation System Disconnected (P04DB00, P04DB-00).
- Reduces occurrences of Intermittent engine speed signal loss, sudden change in vehicle speed, for short period of time (Hiccup or Surge).
- Reduces the potential for Intake Throttle Icing in Cold Weather. Any of the fault codes below are possible with this issue:
  - **P24A4** Diesel Particulate Filter Restriction Soot Accumulation Too High (Bank 1) (P24A400, P24A4-00)
  - P10FE Particulate Filter Restriction Soot Accumulation Moderately High Bank
     1 (P10FE00, P10FE-00)
  - **P02EC** Diesel Intake Air Flow Control System High Air Flow Detected (P02EC00, P02EC-00)
  - **P02ED** Diesel Intake Air Flow Control System Low Air Flow Detected (P02ED00, P02ED-00)
- Improvement in detection of Sweet spot, valid only when performance bonus feature is turned ON.
- Allows operation of DEF Dosing Test, PTT Operation 2589-08-03-05 Aftertreatment selective catalytic reduction (SCR) system Part 4, below 32° F (0° C).

#### **Turbo Compound Only**

• Reduces occurrences of **P0471** Engine Exhaust Back Pressure Circuit Range /Performance (P047164, P0471-64).

# EMS software improvements with MSW Part Number 23242993 / 23242996. Available from February 2018.

#### All Vehicles

- Reduces occurrences of **P02FA** Diesel Intake Air Flow Position Sensor Minimum /Maximum Stop Performance (P02FA97, P02FA-97).
- Reduces occurrences of **P24DA** Particulate Matter Sensor Exhaust Sample Error Bank 1 (P24DA00, P24DA-00).
- Reduces the potential for Intake Throttle Icing in Cold Weather. Any of the fault codes below are possible with this issue:
  - **P24A4** Diesel Particulate Filter Restriction Soot Accumulation Too High (Bank 1) (P24A400, P24A4-00)
  - **P10FE** Particulate Filter Restriction Soot Accumulation Moderately High Bank 1 (P10FE00, P10FE-00)
  - **P02EC** Diesel Intake Air Flow Control System High Air Flow Detected (P02EC00, P02EC-00)
  - **P02ED** Diesel Intake Air Flow Control System Low Air Flow Detected (P02ED00, P02ED-00)
- Improvements in the aftermarket routine for the PM sensor, PTT Operation 2589-08-03-17 Aftertreatment Particulate Sensor, Diagnostic Monitor.

#### Vehices With 2-Box Exhaust Aftertreatment System (EATS) Only

• Reduces occurrences of **P0420** Catalyst System Efficiency Below Threshold (P042000, (P0420-00).

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Solution visibility	Dealer distribution	
Function(s)/compon	ent(s) affected	
Function affected	1 1 0 EMS	
Function Group		
Function Group	17 service and maintenance, 284 control system, fuel supply	
Customer effect		
Main customer effect	calibration/programming/pairing/missing operation, fault code/display	
Fault code(s)		
OBD 2013 Diagnostic	P10FE, P24A4, P0471, P009E, P04DB, P02FA, P0420, P1031, P24DA	
Trouble Codes	F101'E, F24A4, F04/1, F009E, F04DB, F02FA, F0420, F1031, F24DA	
Administration		
Author	UT4155H	
Dealer ID	UT4155H	
Last modified by	RU4469V	
Creation date	27-07-2018 19:07	
Date of last update	21-08-2018 20:08	
Status	Published	
Average score	5	
Number of scores	1	
NA_Author_Group	GTT	