



Engine Control Module (EMS) Software Information - Improvement List (Change Log), June 2021 – US21+OBD2021 Emissions ONLY



> Internal Content

Information about Engine Control Module (EMS) Software content. This document lists issues (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.

This software applies to all vehicles, and both VGT and TC engines.

Software Release Table (Latest information at top)

Date Available Via PTT	VGT MSW Part #	TC MSW Part #
June 2021 (Current)	23972412	23972419
December 2020	23992327	23992337

VGT and TC EMS

Reduction of false faults on the following NOx Sensor faults:

- [P225C-00 - NOx Sensor Performance - Signal Stuck High Bank 1 Sensor 1](#)
- [P225E-00 - NOx Sensor Performance - Signal Stuck High Bank 1 Sensor 2](#)

Improvement in fuel filter plugging detection

- [Once engine ECU SW is updated, parameter 'TAU' set to 'True' to make instrument cluster display message as needed.](#)

VGT EMS Software Only

Improved diagnostic function routines for EGR System Checks



[est, 2939-08-03-01 – Exhaust Gas Recirculation Function has been replaced with 2939-08-03-03 – Exhaust Gas Recirculation](#)

been replaced with 2939-08-03-03 - Exhaust Gas Recirculation System Analysis.

- New test, 2939-08-03-03 is more capable in detecting issues with EGR system.
- Use TT2.8.51 or newer and update product information to run this operation with new engine ECU software.

TC EMS Software Only

Reduction of false faults on the following:

- P0471-64 - Engine Exhaust Back Pressure Circuit Range/Performance

Reduction of fault occurrence

- P0402-00 - Engine Exhaust Gas Recirculation 1 Valve Position Flow Excessive Detected

Improvement in Engine Speed stability during idle

Reduction of false fault occurrence

- P2002-00 - Diesel Particulate Filter Efficiency Below Threshold (Bank 1)

Tags

[p0471-64](#) [p0402-00](#) [p2002-00](#) [p225c-00](#)
[p225e-00](#) [p047164](#) [p040200](#) [p200200](#)
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