



**** SOLUTION ****

Title Mack Chassis - US07 Spark Assist Troubleshooting Check Sheet

Mack Models

Mack Model LEU , MRU - TerraPro

Emission Standard

Emission Standard US07

Engine family

Engine family MP7

**** SOLUTION ****

Cause Mack Trucks continues to receive complaints regarding US07 MP7 spark assist troubleshooting.

Solution It has been found that on these older chassis it is best to eliminate all the basics prior to opening an eService case. Pressure test the complete intake and exhaust systems. There is zero tolerance for leaks in these systems. Next, go over all the wiring harnesses to see if there are crispy spots No rub spots, loose areas are tolerated. Next check the chassis air supply system to be sure the customer has been draining the air tanks nightly and servicing the air dryer every 6 months with a fresh COALESCING type air dryer cartridge. This DPF system cannot tolerate ANY water or oil moisture at all for it to function correctly and reliably. Repair any leaks, electrical and air system issues before starting to dig into the Aftertreatment system.

Use the US07 Spark Assist Check Sheet [here](#) to compare sensor and component values during fault tracing for spark assisted regeneration troubleshooting.

Please refer to the reference documentation below.

- [TRU Regen Design and Function](#)
- [EMCON System Training Overview](#)
- [Combustor Inspection](#)

Solution visibility **Dealer distribution**

Function(s)/component(s) affected

Function affected EECU , MID 128 – EMS , MID 177 – EMCON , MID 233 – UDS , Diagnostic tool , Engine , exhaust

Function Group

Function Group 258 emissions after-treatment , 281 ignition coil, spark plug, ignition cable , 284 control system, fuel supply , 2861 Engine Wiring Harness

Customer effect

Main customer effect regeneration , diagnostics/methodology , efficiency/abnormal behavior

Fluid implicated	Air , Fuel
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Conditions

Vehicle operating mode	when stationary
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Frequency of occurrence of problem	always
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Administration

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