



**\*\* SOLUTION \*\***

Title Mack US10 Spark Assist Troubleshooting Check Sheet

**Mack Models**

**Mack Model** LEU , MRU - TerraPro

**Emission Standard**

Emission Standard US10

**Engine family**

Engine family MP7

**\*\* SOLUTION \*\***

**Cause** Mack Trucks continues to receive complaints regarding US10 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 US10 [Spark Assist](#) check sheet to compare sensor and component values during fault tracing for spark assisted regeneration troubleshooting.

Please refer to the reference documentation below.

- [US10 Regen Design and Function](#)
- [Combustor Inspection](#)

Solution visibility Dealer distribution

**Function(s)/component(s) affected**

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

**Function Group**

Function Group 258 emissions after-treatment

**Customer effect**

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

Fluid implicated Air , Fuel

## Administration

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