

Date: August 31, 2026
Subject: TriPac 3 Aftertreatment Device Quick Diagnostics
Location: e-Tech Library

Units: TriPac 3 with Aftertreatment Device (ATD)
Description: To provide quick diagnostics for TriPac 3 alarm codes related to the filter.
Important: Verify tractor ignition signal is properly functioning and the TriPac 3 is configured for an ATD.

Critical Specifications:

Item	Specification
Sensor Supply	~5 Vdc
Heater Current at 12 Vdc	70 A+
Low Current Fault Threshold	<50 A
Heater Resistance	0.14 to 0.16 Ohms
Battery Low Threshold	<11.0 Vdc
High Voltage Lockout	>15 Vdc
Filter Tab Torque	40 in-lb

Filter Resistance Check:

Tool	Reminder
Resistance Meter	Use a micro-ohm meter for heater resistance checks.
Standard Ohmmeter	Not accurate enough for 0.14 to 0.16 ohms measurements. If using a standard ohmmeter, the filter will appear to have no resistance. Some meters may say 0 ohms, this does not mean a failed filter. When checking resistance, verify carbon is removed from the filter tabs; otherwise, the reading will not be accurate.

Alarm Code 367:

FMI	Condition	Recommended Technician Action
0 / 1	Short circuit or open circuit.	Verify pressure sensor is installed and connected. Check harness continuity. Inspect for broken or shorted wires. Replace faulty sensor.
7	No pressure response.	Verify 5 Vdc supply. Inspect and clean pressure tube. Clean exhaust vibrasorber fitting. Verify check valve is free of soot/debris and not stuck shut.
16	Pressure is too high with engine off.	Verify correct sensor is installed. Verify 5 Vdc. Inspect and clean pressure tube and fitting. Verify air pump is not running continuously.
18	Pressure is too low with system off.	Verify sensor connection and 5 Vdc. Inspect pressure tube. Inspect check valve. Verify internal heater wires are connected.

Alarm Code 368:

FMI	Condition	Recommended Technician Action
0	Five time-based regenerations due to pressure sensor fault.	Correct pressure sensor fault. Inspect pressure tube and verify system integrity. Inspect condition of ATD filter. Check ATD filter resistance. Refer to Filter Resistance Check table. Check for exhaust leaks.
7	More than 130 engine hours since last regeneration.	Confirm regeneration history. Inspect pressure sensor system if regeneration has been delayed. Inspect condition of ATD filter. Check ATD filter resistance. Refer to Filter Resistance Check table. Check for exhaust leaks.
31	Manual regeneration requested while FMI 0 and 7 are active.	Fix pressure sensor faults first. Clean pressure tube. Verify ATD system is intact and not bypassed. Check for exhaust leaks. Inspect check valve. Verify ground (B-) and heater positive (B+). Inspect condition of ATD filter.

Alarm Code 369:

FMI	Condition	Recommended Technician Action
7	Five mandatory regenerations within 10 engine hours	Resolve other alarms first. Inspect for ash/soot-loaded filter. Check pressure sensor operation. Verify heater draws 70 A+ at 12 Vdc. Confirm air pump flow. Inspect tubing/fittings. Tighten filter tabs to 40 in-lb. May need to sand the tabs to get an accurate reading. Check for clogged air line or stuck closed check valve. Perform manual regeneration after repair.

Alarm Code 370:

FMI	Condition	Recommended Technician Action
17	Regeneration stopped early due to low voltage.	Check battery condition and charging system.
18	Second consecutive low-voltage regeneration stop.	Verify battery remains above 11.0 Vdc. Inspect charging system.

Alarm Code 371:

FMI	Condition	Recommended Technician Action
5	Open circuit.	Check frame ground (B-). Check heater positive (B+). Check 125 amp ATD fuse. Inspect relay condition. Inspect condition of ATD filter. Check ATD filter resistance. Refer to Filter Resistance Check table.
6	Short circuit detected.	Check condition of ATD housing. Dents may cause arching on filter tabs. Check 125 amp ATD fuse. Check power relay and alternator ground for loose connections.

		Check the filter tabs internally for loose wires. 40 in-lbs of torque on filter tab connections. Check ATD filter resistance. Refer to Filter Resistance Check table.
11	Mandatory regeneration with FMI 5, 6, or 18 active.	Check condition of ATD housing. Dents may cause arching on filter tabs. Check 125 amp ATD fuse. Check power relay and alternator ground for loose connections. Check the filter tabs internally for loose wires. 40 in-lbs of torque on filter tab connections. Check ATD filter resistance. Refer to Filter Resistance Check table.
18	Low heater current during regeneration.	Fault if below 50A. Expected 70 A+ at 12 Vdc. Inspect for loose connections. Check ATD filter resistance. Refer to Filter Resistance Check table. Inspect condition of ATD filter. Tighten filter tabs to 40 in-lb. May need to sand the tabs to get accurate reading.

Alarm Code 372:

FMI	Condition	Recommended Technician Action
5	Open circuit / air supply de-energized.	Inspect air pump and heater wiring. Inspect rub points. Verify harness continuity. Inspect check valve. Inspect air lines for clogging.
6	Short circuit / air supply de-energized.	Inspect air pump wiring for damaged insulation. Verify harness continuity. Inspect check valve. Inspect air lines for clogging.

Alarm Code 375:

FMI	Condition	Recommended Technician Action
0 / 16	Voltage above 15 Vdc.	Diagnose unit and truck charging system.
31	Service switch Off.	Verify service switch is on.