



Technical Service Bulletin: TSB260017

Released Date: 18-Feb-2026

Incorrect Aftertreatment Regeneration Permit Switch Trims

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- B6.7 CM2450 B155B
- L9 CM2450 L126B
- X12 CM2450 X137B
- X15 CM2450 X142B

Issue Summary

Symptom:

- Fault Code 1921
- Fault Code 1922
- Fault Code 1981
- Fault Code 2639
- Fault Code 4213
- Fault Code 14356
- Units in the field with an Aftertreatment Regeneration Permit Switch have been found to be trimmed incorrectly and could lead to an Aftertreatments system **not** completing regenerations as needed.

Verification

- Active fault codes 1921, 1922, 1981, 2639, and/or 4213 caused by fault code 14356.
- Fault Code (FC) 6416 is **not** active
- Active FC: 14356:
 - Depending on the engine control module (ECM) calibration revision the unit will have illuminated a lamp on the dash.
 - If FC fault code 14356 is active in the Cummins Electronic Service Tool or equivalent, continue following down this TSB.
 - If fault is **not** active in the Cummins Electronic Service Tool or equivalent, exit this TSB and continue published troubleshooting.
- In the INSITE™ Electronic Service Tool analyze the INSITE image and go to the Aftertreatment System tab and find the column named "Time Since Previous Regeneration". Reference Figure 1.

ECM Time (Day On Time)	ECM Time (After Time)	Time Since Previous Regeneration	Starting Diesel Particulate Filter Soot Load	Ending Diesel Particulate Filter Soot Load	Starting Diesel Catalyst Inlet Temperature	Minimum Diesel Particulate Filter Inlet Temperature	Maximum Diesel Particulate Filter Outlet Temperature	Maximum Diesel Particulate Filter Differential Pressure
02080418	Not Applicable	242.28	Normal	Normal	287.1	453.3	459.6	0.3
02080514	Not Applicable	171.82	Normal	Normal	284.4	452.4	457.6	0.3
02080512	Not Applicable	174.22	Normal	Normal	143.1	352.4	459.6	0.3
02080524	Not Applicable	232.76	Normal	Normal	226.3	1011.9	354.3	0.1
02080610	Not Applicable	81.3724	Normal	Normal	137.3	1010.0	352.3	1.2
02080424	Not Applicable	183.3712	Normal	Normal	217.4	1007.4	352.3	0.3
04010412	Not Applicable	188.3712	Normal	Normal	148.4	1007.7	352.3	0.3
Standard	434.2500	188.4028				894.7174288794	1023.04212028	0.14002748281
Standard						225.38	232.49	0.41

Figure 1, INSITE™ Electronic Service Tool go to the Aftertreatment System tab

- If any of the rows in column "Time Since Previous Regeneration" show a time of more than 150 hours continue following this TSB.
- If all rows are under 150 hours, exit this TSB and continue to next step in troubleshooting.

Resolution

1. Troubleshoot fault code 14356 if active before troubleshooting any of these fault codes 1921, 1922, 1981, 2639, 4213.
2. Check the functionality of Regeneration Permit Switch
 - 2a. In the INSITE™ Electronic Service Tool go to Data Monitor/Logger and under the Parameter Groups select "Aftertreatment – Diesel Particulate Filter Stationary Regeneration".
 - 2b. Find Parameter "Aftertreatment Diesel Particulate Filter Regeneration Permit Switch Status". Reference Figure 2.

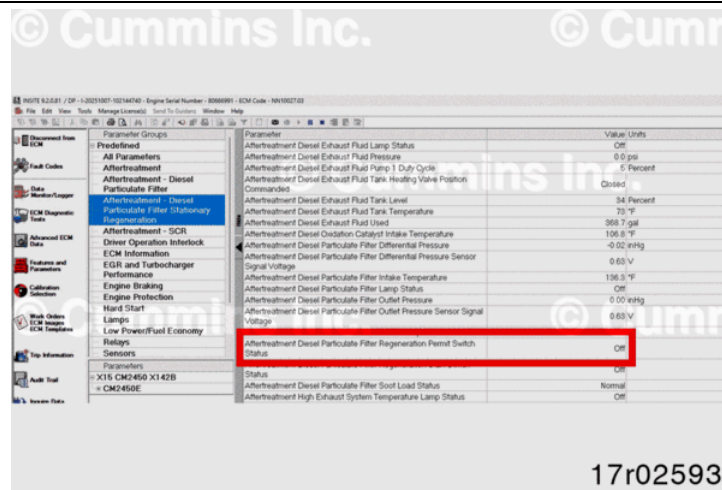


Figure 2, INSITE™ Electronic Service Tool Data Monitor and Parameters

- 2c. While either monitoring those parameters by watching the screen or taking a data log, flip the Regeneration Inhibit/Permit Switch and the Regeneration Start Switch multiple times.
3. If the parameters turned on and off along with the switches then exit this TSB and continue with published troubleshooting.
4. If the parameters did **not** change/respond when the switches were flipped or unit does **not** have a regen inhibit switch go to step 5.
5. If unit has fault code 14356 active then any of the below scenarios could cause an issue
- 5a. Unit was **not** built with a Regen Inhibit switch and trims are incorrectly set. Trims **must** be switched to disable.
- 5ai. Go to features and parameters and expand Aftertreatment Diesel Particulate Filter and disable Diesel Particulate Filter Regeneration Permit Switch if the trim is enabled. Reference Figure 3 for the correct setting.

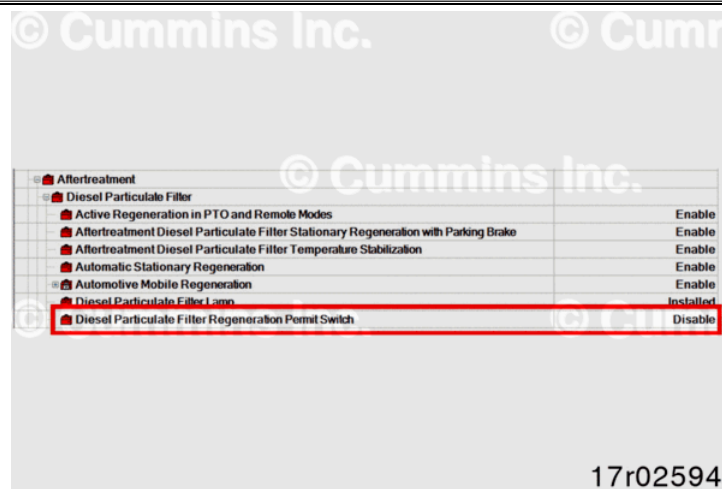


Figure 3, INSITE™ Electronic Service Tool Features and Parameter Trims Aftertreatment

- 5aii. Scroll down and expand SAE J1939 Messaging and disable Aftertreatment Regeneration Permit switch if the trim is enabled. Reference Figure 4 for the correct setting.

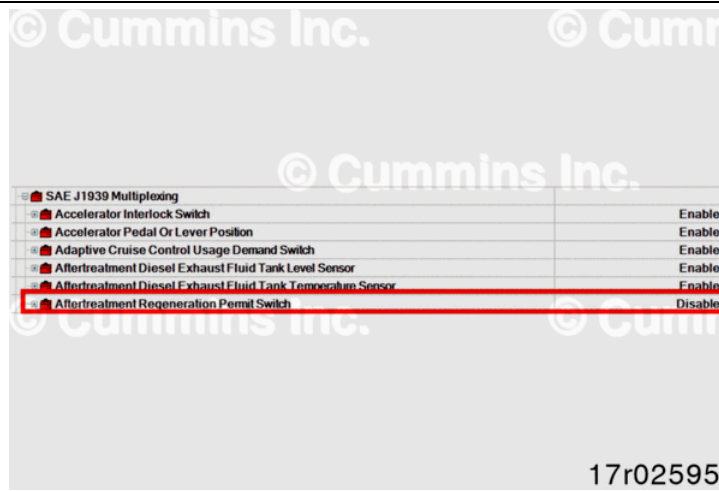


Figure 4, INSITE™ Electronic Service Tool Features and Parameter Trims SAE J1939 Multiplexing

5aiii. If both trims were already disabled, then move to step b.

5aiv. If one or both of those trims were enabled, and the unit does **not** have a regen inhibit switch, the parameter **must** be disabled and this issue should be resolved.

5b. Unit has a hardwired regen inhibit switch, but multiplexing is enabled.

5bi. Go to features and parameters and expand SAE J1939 Messaging and disable Aftertreatment Regeneration Permit switch if the trim is enabled. Reference Figure 4 for the correct setting.

5bii. Find and expand Aftertreatment > Diesel Particulate Filter and enable Diesel Particulate Filter Regeneration Permit Switch if the trim is set to disable. Reference Figure 5 for the correct setting.

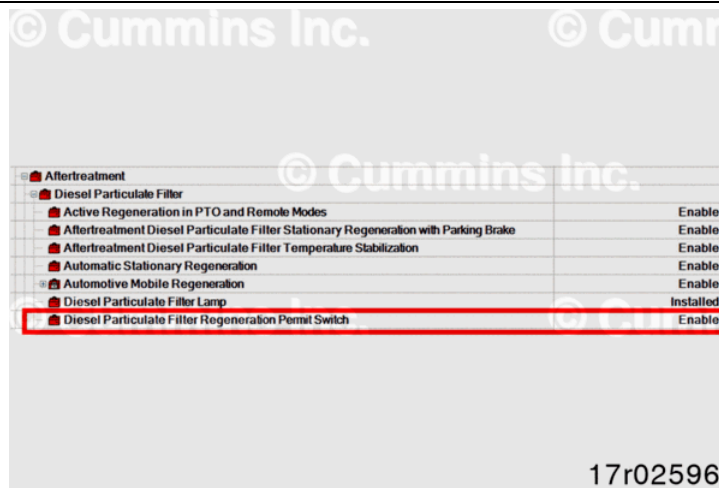


Figure 5, INSITE™ Electronic Service Tool Features and Parameter Trims Aftertreatment Enable

5biii. Repeat step 2 to check the functionality of the switch. If parameters turn on and off following the switch, the switch is working properly. If the switch is still **not** working, go to step c.

Step C: Refer to OEM service information for further troubleshooting.

Document History

Date	Details
2026-2-4	Module Created
2026-2-16	Corrected typos in TSB and added Step C reference to tsb so that it is understood that step C is to refer to the OEM service information.