



TECHNICAL SERVICE BULLETIN

Exhaust Tailpipe Actuator Alignment

25-2144

10 April 2025

Model:

Ford 2023-2025 F-150	Engine: 5.2L Supercharged
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Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit one or more of the following conditions that lead to needing to perform the calibration (alignment) procedure on exhaust tailpipe actuators:

- An illuminated MIL and an "Exhaust mode not available" message in the IPC with DTCs P26FE, P2BFB, P26C5:78, and/or P2BF8:78 stored in the PCM
- A condition/symptom that requires the installation of an exhaust tailpipe actuator when undergoing normal diagnosis and repair
- Exhaust tailpipe actuators failing alignment procedure after installation with PID "EFCV_A_MON_STAT" and/or PID "EFCV_B_MON_STAT" reading "3"
- No audible difference in exhaust tone when transitioning between exhaust modes

These exhaust tailpipe actuators require alignment after installation. These vehicles may require an update to the PCM prior to attempting exhaust tailpipe actuator alignment.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to update the PCM to the latest calibration prior to attempting exhaust tailpipe actuator alignment.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Service Part New Vehicle (SPNV)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SPNV/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2023-2025 F-150 5.2L: Reprogram The PCM And Perform The Exhaust Actuator Alignment (FAIL) Diagnose And Repair Outside Of This TSB (Do Not Use With Any Other Labor Operations)	252144A	0.4 Hrs.
2023-2025 F-150 5.2L: Reprogram The PCM And Perform The Exhaust Actuator Alignment (PASS) (Do Not Use With Any Other Labor Operations)	252144B	0.7 Hrs.

Repair/Claim Coding

Causal Part:	5K245
Condition Code:	04

Service Procedure

1. Connect a battery charger such as Rotunda GRX-3590 or DCA-8000 to the 12-volt battery.

NOTE: To prevent the battery saver mode from activating on the vehicle, make sure the negative cable of the charger is installed on a chassis or engine ground, and not the 12-volt battery negative terminal. Do not have the vehicle plugged into high voltage battery charger during programming. This can cause incorrect module programming. Make sure only the 12-volt battery charger is installed.

2. Reprogram the PCM using the latest level software level of the FDRS scan tool.

NOTE: Advise the customer this vehicle is equipped with an adaptive transmission shift strategy which allows the vehicle's computer to learn the transmission's unique parameters and improve shift quality. When the adaptive strategy is reset, the computer will begin a relearning process. This relearning process may result in firmer than normal upshifts and downshifts for several days.

3. Begin exhaust tailpipe actuator alignment by performing WSM, Section 309-00 Exhaust System - 5.2L 32V Ti-VCT – Supercharged > Removal and Installation > Exhaust Tailpipe Actuator Step 7, Sub-Steps 1-6. Is there an exhaust related DTC or the “Exhaust mode not available” cluster message after repeating the Steps 1-5?
 - (1). Yes - refer to the WSM, Section 309-00 - 5.2L 32V Ti-VCT - Supercharged for additional diagnostics outside of this article. Proceed to Step 4.
 - (2). No - proceed to Step 4.
4. Turn the vehicle off.
5. Perform WSM, Section 309-00 Exhaust System - 5.2L 32V Ti-VCT - Supercharged > Removal and Installation > Exhaust Tailpipe Actuator Step 7, Sub-Steps 9-15. Repair is complete.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.