

E318: EPA21 PACCAR MX Fuel Injector and Software Update

10/7/2024

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E318

EPA21 PACCAR MX Fuel Injector and Software Update

Section

Engine - 45

Subject

EPA21 PACCAR MX Fuel Injector and Software Update

Condition

Selected EPA2021 compliant PACCAR MX-11 or MX-13 engines identified by PACCAR.

PACCAR will proactively contact dealers associated with chassis identified in this campaign and coordinate with customers to schedule the installation based on parts and dealer availability. If a truck is in your shop and it is flagged in SIR, please proceed with this installation. We also welcome dealers to proactively contact customers based on the regularly updated chassis list.

Chassis Affected

Selected chassis equipped with EPA2021 compliant PACCAR MX-11 or MX-13 engines identified by PACCAR.

Action

Campaign

Newly designed fuel injectors are available for EPA2021 compliant PACCAR MX-series engines to optimize engine performance.

Customers will be contacted when the software and injectors are available for their chassis.

Install upgraded injectors and software on identified vehicles as software and parts are available.

Chassis list will be updated as software is available for each batch of chassis.

 CAUTION
Do not attempt to replace injectors or update software on chassis where customers have not been notified and vehicles are not flagged in SIR.
Software/injector mismatch can cause severe engine and aftertreatment damage.

1. Confirm with the customer that your dealership will be the repairing location before ordering parts.
2. Ensure all parts have arrived before scheduling the customer for installation.
3. In Service Management, select Campaign **E318** to add it to the case. If the unit is released back into service without performing the repair, make sure to also release the Campaign in Service Management.
4. If you are not using Service Management to start repair orders, review SIR for "Complete" or "In Process" next to the **E318** Campaign code prior to performing this repair.

5. Follow the attached procedures to replace 6 injectors and update engine PCI-2 software.

Warranty

The chassis list will be updated periodically based on prognostic data. PACCAR will identify chassis, contact customer, and load chassis to PRWS and SIR.

USE THE FOLLOWING RECOMMENDED REPAIRS WHEN ORDERING INJECTORS IN A PACKAGE OF 1 WITH ONE OF THE FOLLOWING PART NUMBERS: 2426856PEX or 2426855PEX.

(*Please note that you must order 6 injectors total and replace all 6.)

- **5.9 hours** to replace 6 injectors and update PCI-2 software on **PACCAR MX-13** engines in **579** chassis. Use Recommended Repair code **E318A**. (2426856PEX)
- **5.5 hours** to replace 6 injectors and update PCI-2 software on **PACCAR MX-13** engines in **567 and 589** chassis. Use Recommended Repair code **E318B**. (2426856PEX)
- **4.1 hours** to replace 6 injectors and update PCI-2 software on **PACCAR MX-11** engines. Use Recommended Repair code **E318C**. (2426855PEX)

USE THE FOLLOWING RECOMMENDED REPAIRS WHEN ORDERING INJECTORS IN A PACKAGE OF 6 WITH ONE OF THE FOLLOWING PART NUMBERS: 2434417PEX or 2434418PEX.

- 5.9 hours to replace 6 injectors and update PCI-2 software on PACCAR MX-13 engines in 579 chassis. Use Recommended Repair code E318D. (2434417PEX)
- 5.5 hours to replace 6 injectors and update PCI-2 software on PACCAR MX-13 engines in 567 and 589 chassis. Use Recommended Repair code E318E. (2434417PEX)
- 4.1 hours to replace 6 injectors and update PCI-2 software on PACCAR MX-11 engines. Use Recommended Repair code E318F. (2434418PEX)

USE THE FOLLOWING RECOMMENDED REPAIRS WHEN ORDERING INJECTORS IN A PACKAGE OF 6 WITH ONE OF THE FOLLOWING PART NUMBERS: 2461236PEX or 2461235PEX.

- 5.9 hours to replace 6 injectors and update PCI-2 software on PACCAR MX-13 engines in 579 chassis. Use Recommended Repair code E318G. (2461236PEX)

- 5.5 hours to replace 6 injectors and update PCI-2 software on PACCAR MX-13 engines in 567 and 589 chassis. Use Recommended Repair code E318H. (2461236PEX)
- 4.1 hours to replace 6 injectors and update PCI-2 software on PACCAR MX-11 engines. Use Recommended Repair code E318J. (2461235PEX)
- For supplemental claims, file a long form claim and use E318 in the “Campaign Code” field.
- File the claim within 7 days in accordance with Warranty Policy.
- Peterbilt dealers may perform E318 repairs on Kenworth chassis, but Recommended Repairs do not apply. For engine repairs on Kenworth chassis,

use long form claim and enter E318 in the "Campaign Code" field.

Take-off parts disposition: Destroy take-off parts 30 days after claim is paid.

PRWS CLAIM CODING			
Campaign Code:	E318	Campaign Type:	Field Repair
Claim Category:	Engine	Repair Type:	Proactive
Customer Concern Code:	337	Causal Code:	A1
Corrective Action Code:	12	Responsibility Code:	CAMP
Failure Location:	044-014-001	Causal Part:	2403776PEX
Supplier Code:	N/A	SRT Code:	B24-45A 5.9 hours Replace 6 injectors and update PCI-2 software on MX-13 per bulletin procedure E318 (model 579). B24-45B 5.5 hours Replace 6 injectors and update PCI-2 software on

			MX-13 per bulletin procedure E318 (models 567 and 589). B24-45C 4.1 hours Replace 6 injectors and update PCI-2 software on MX-11 per bulletin procedure E318.
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Parts

Parts are available from PACCAR Parts.

Parts Required - MX-13		
Quantity	Part Number	Description
6	2426856PEX	Injector, MX-13, EPA21/24 (Package of 1)
OR		
1	2434417PEX	INJECTOR, MX-11, EPA21/24 (Package of 6)

Parts Required - MX-13		
Quantity	Part Number	Description
OR		
1	2461236PEX	NJECTOR, MX-11, EPA21/24 (Package of 6)
6	1313120PE	Flange Bolt, 10.9
1	2105834	Valve Cover Gasket
1	2105835	Valve train casing gasket
1	2272926	Fuel Filter Element Set (With O-Rings)
1	2138144	Gasket, Oil Fill Pipe
1	2253166	O-ring (Fuel Filtration Module mounting)
1	2253167	Sealing Ring (Fuel Filtration Module mounting)
1	F37-1022- 100	Dryer-Receiver with Dye
2	1858035	Usit Ring
As Needed	EC3501 (US) EC7501 (Canada)	Coolant
Partial Container Needed (Max 8oz)	D14858530	Refrigerant, R134a
As Needed	Source Locally	Cable Ties

Parts Required - MX-13		
Quantity	Part Number	Description
Partial Container Needed	Source Locally	Electrical Contact Cleaner
Partial Container Needed	Source Locally	Loctite 242 Thread Locker or equivalent
Partial Container Needed (Max 2oz)	LM1020	Oil-PAG, 250cc (A/C oil, SP15)

Parts Required - MX-11		
Quantity	Part Number	Description
6	2426855PEX	Injector, MX-11, EPA21/24 (Package of 1)
OR		
1	2434418PEX	INJECTOR, MX-11, EPA21/24 (Package of 6)
OR		
1	2461235PEX	INJECTOR, MX-11, EPA21/24 (Package of 6)
6	1313120PE	Flange bolt 10.9
1	2272926	Fuel Filter Element

Parts Required - MX-11		
Quantity	Part Number	Description
		Set (With O-Rings)
1	1900010	Valve cover gasket
1	1917012	Flange gasket (inlet manifold)
1	1876805	O-ring (EGR pipe to venturi)
1	2235755	Sealing Ring (Inlet horn to venturi)
1	2015102	O-ring (non-return valve)
1	2004292	O-Ring (injector leak pipe)
Partial Container Needed	Source Locally Available at Primo Supply	P-80 Lubricant or equivalent (EGR pipe O-ring)
As Needed	EC3501 (US) EC7501 (Canada)	Coolant
As Needed	Source Locally	Cable Ties
Partial Container Needed	Source Locally	Electrical Contact Cleaner
Partial Container Needed	Source Locally	Loctite 242 Thread Locker or equivalent

Procedure

Please follow your dealership's safety procedures and precautions to ensure the vehicle can be safely repaired and maintained.

Read all steps before beginning.

Ensure that DAVIE4 is updated to the latest version before connecting to any vehicle for diagnostics or software updates.



CAUTION

All 6 injectors must be replaced AND PCI-2 software updated in the **same service event.**

Mismatched software/injectors will cause system faults and **severe engine/aftertreatment system damage.**

1. Order parts as shown in Parts section (above) for engine type.

- Do not use RMI for *injector* Part Numbers.
- Ensure all parts have arrived before beginning installation.

2. Replace all 6 injectors with new Package 2 injectors. See parts section for current Injector PNs.

3. Follow the attached procedures document for engine and chassis type.

** NOTE**

On warranty claim, use injector PNs stamped on the injectors.

Other PNs (from ECAT or RMI) may not be the actual installed injectors and could result in delayed or denied claims.

Attachments

[E318 - MX-13 579 Fuel Injector Replacement Procedure](#)

[E318 - MX-13 567_589 Fuel Injector Replacement Procedure](#)

[E318 - MX-11 Fuel Injector Replacement Procedure](#)