

# E316 - PACCAR MX-13 EPA21 Main Bearing Cap Bolts - Proactive Bolt Upgrade

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## Number

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E316

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## Description

PACCAR MX-13 EPA21 Main Bearing Cap Bolts - Proactive Bolt Upgrade

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## Subject

PACCAR MX-13 EPA21 Main Bearing Cap Bolts - Proactive Bolt Upgrade

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## Date

5/20/2024

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## Revision

**08/16/2024:** Added oil pan drain plug (1982821PE) to to parts list and included QR code to access information about Programmable Torque Tool.

**07/23/2024:** Updated verbiage in bulletin/procedures to reflect change to name of "Nut Runner Tool" to "Programmable Torque Tool."

**07/10/2024:** Added oil pan gasket (2111441PE) to parts list.

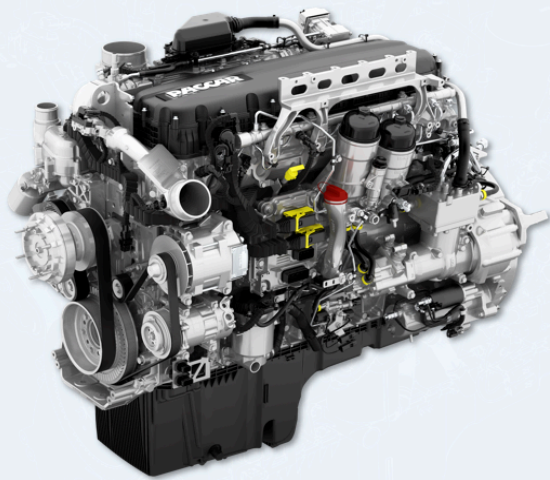
## Condition

**Schedule proactive upgrade with next service event - a complimentary oil change is included.**

Certain PACCAR MX-13 engines contain bolts for the main bearing caps which may fail under certain conditions.

# Improvement Identified

-  Proactive Upgrade During Free Oil Service
-  Upgraded Bolts
-  Powered By Prognostics
-  Covered Under MX Warranty



**MX-13**

Dealers will remove and replace all main bearing cap bolts on affected trucks. PACCAR will proactively contact customers with chassis identified in this campaign.

**The chassis list will be updated periodically based on prognostics data.**

**An Ingersoll Rand MX Programmable Torque Tool Kit is now available** to order via PACCAR Parts to reduce labor time and increase the torque accuracy

when installing the main bearing cap bolts. **This tool is NOT reimbursable through this bulletin.**

## Chassis Affected

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Certain Peterbilt model 365, 367, 389, 567, 579, and 589 chassis equipped with an EPA21 PACCAR MX-13 engine with serial number Y313946 and earlier.

## Action

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### Campaign

**Schedule proactive upgrade with next service event - a complimentary oil change is included.**

Service all chassis affected that enter your dealership, even if the customer has no issue with the chassis.

1. Review the attached chassis list for your dealer code and schedule your customer(s) for service if their chassis is on the list.
2. In Service Management, select Campaign **E316** 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.
3. If you are not using Service Management to start repair orders, review SIR for “Complete” next to the **E316** Campaign code prior to performing this repair.
4. Follow the procedures to remove and replace the main bearing cap bolts.

## Warranty

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

Starting on 05/20/2024 through Standard Warranty or any applicable, active Extended Warranty, Peterbilt will pay for parts at dealer net plus applicable mark-up and labor:

- **3.8 hours** labor to replace the main bearing cap bolts WITHOUT Programmable Torque Tool. Use Recommended Repair Code **E316A**.
- **3.0 hours** labor to replace the main bearing cap bolts WITH Programmable Torque Tool. Use Recommended Repair Code **E316B**.

- For extraordinary circumstances please use code **E316**, add from “Recommended Repairs”, and then select the gear icon to edit Parts/Labor/Misc.
- For any supplemental repairs, file a long form claim and input (**E316**) in the “Campaign Code” field.
- File the claim within 7 days in accordance with warranty policy.
- For cross-division repairs, please refer to Peterbilt warranty policy. Recommended Repair codes listed above do not apply to cross-division repairs.
- If filing a claim for cross-division repairs, be sure to select the Kenworth specific SRT code shown in the PRWS Claim Coding table below.

**Take-Off Parts Disposition:** Destroy take-off parts 30 days after claim is paid.

| PRWS CODING TABLE              |             |                             |                                                                                                                                         |
|--------------------------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Campaign Code:</b>          | E316        | <b>Campaign Type:</b>       | Field Repair                                                                                                                            |
| <b>Claim Category:</b>         | Engine      | <b>Repair Type:</b>         | Proactive                                                                                                                               |
| <b>Customer Concern Code:</b>  | 203         | <b>Causal Code:</b>         | 12                                                                                                                                      |
| <b>Corrective Action Code:</b> | 03          | <b>Responsibility Code:</b> | Camp                                                                                                                                    |
| <b>Failure Location:</b>       | 045-002-009 | <b>Causal Part:</b>         | 2295490PE                                                                                                                               |
| <b>Supplier Code:</b>          | N/A         | <b>SRT Code:</b>            | <b><u>Peterbilt SRT Code</u></b><br><b>B24-21A</b><br><b>3.8 hours</b><br>R&R main bearing cap bolts per E316 repair procedure (Without |

Programmable  
Torque Tool)

**Peterbilt SRT**

**Code:**

**B24-21B**

**3.0 hours**

R&R main  
bearing cap  
bolts per E316  
repair  
procedure  
(With  
Programmable  
Torque Tool)

**Kenworth SRT**

**Code:**

**B24-19A**

**3.8 hours**

R&R main  
bearing cap  
bolts per E316  
repair  
procedure  
(Without  
Programmable  
Torque Tool)

**Kenworth SRT**

**Code:**

**B24-19B**

**3.0 hours**

R&R main  
bearing cap  
bolts per E316  
repair  
procedure  
(With

|  |  |  |                              |
|--|--|--|------------------------------|
|  |  |  | Programmable<br>Torque Tool) |
|--|--|--|------------------------------|

## Parts

Parts are available from PACCAR Parts.

| Quantity | Part Number    | Description                              |
|----------|----------------|------------------------------------------|
| 14       | 2295490PE      | Bolt, Main Bearing Cap, M18X180          |
| 2        | 1608394PE      | Ring-Sealing                             |
| 2        | 1608393PE      | Ring-Sealing                             |
| 1        | 2234788PE      | PACCAR Oil Element                       |
| 11       | 257000-990     | CHV DELO 400XLE SYNBB<br>10W30 CK-4 BULK |
| 1        | 2111441PE      | Gasket, Oil Pan                          |
| 1        | 1982821PE      | Drain Plug (Oil Pan Plug)                |
| 1        | Source Locally | 6mL Loctite 243 or equivalent            |
| 1        | Source Locally | Loctite 7063 or equivalent               |
| 1        | Source Locally | Loctite SI 5970 or equivalent            |
| Up to 5  | Source Locally | Cable Ties                               |

**An Ingersoll Rand MX Programmable Torque Tool Kit is now available** to order via PACCAR Parts to reduce labor time and increase the torque accuracy

when installing the main bearing cap bolts. **This tool is NOT reimbursable through this bulletin.**

Scan the QR code below to learn more about this new tool:



[PACCARMPIQX - Rhino Tool House](#)

## Procedure

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

Read all steps before beginning.

See appropriate procedure document in the Links section of this bulletin.

## Links

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[E316 - Repair Procedure - WITH PROGRAMMABLE TORQUE TOOL](#)

[E316 - Repair Procedure - WITHOUT PROGRAMMABLE TORQUE TOOL](#)

[E316 - Chassis List](#)