



## Technical Information Bulletin

### E214



### Section

Engine

### Subject

MY17/18 PACCAR MX-13 EGR DTC's P103C, P1711, P1719, and/or P3818; DPF/SCR restrictions; and/or high oil consumption.

### Release Date

8/23/2018

### Condition

Exhaust valve guide seals are leaking and may cause excessive wet soot build up in the DPF/SCR and/or Air Management System in addition to high oil consumption.

### Chassis Affected

MY2017-2018 PACCAR MX-13 engines.

### Action

#### Fix-As-Fail

If a customer comes into your dealership and demonstrates the condition above, use the procedure below to diagnose and repair the chassis.

### Warranty

Through Standard Warranty (includes Extended Warranty) Kenworth will pay for parts at dealer net plus applicable mark-up and labor:

- 8.7 hours labor to disassemble the DPF/SCR, inspect the soot, and replace the exhaust valve guide seals T680/T880. Use Quick Claim code E214A.
- 9.0 hours labor to disassemble the DPF/SCR, inspect the soot, and replace the exhaust valve guide seals W900/T800. Use Quick Claim code E214B.
- File an additional long form claim with the SupportLink case number and RESM authorization.
- File an additional claim for extraordinary circumstances. A quick claim for standard labor must be filed first.

Kenworth dealers may perform E214 repairs on Peterbilt chassis, but Quick Claims do not apply. For Peterbilt chassis repairs, use the long claim input form in DWWC selecting "Draft/Offline Claims", the "General" tab, and in the "Type of Claim" drop down box, select "PACCAR Engine Claim", then manually enter claim codes (Campaign #, Failure type, and SRT).

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

CLAIM CODING for T680/T880			
Failure Location:	045-008-036	Work Accomplished:	35
Failure Type:	235	Responsibility Code:	01

SRT Code:	<b>043-070</b> 3.5 hrs. Inspect Air management system and DPF/SCR for dry or wet soot <b>043-728</b> 4.9 hrs. R&R 12 exhaust seals <b>001-417</b> 0.3 hrs. R&R air cleaner	Claim Type:	A/D
<b>CLAIM CODING for W900</b>			
Failure Location:	045-008-036	Work Accomplished:	35
Failure Type:	235	Responsibility Code:	01
SRT Code:	<b>043-070</b> 3.5 hrs. Inspect Air management system and DPF/SCR for dry or wet soot <b>043-728</b> 4.9 hrs. R&R 12 exhaust seals <b>041-001</b> 0.6 hrs. R&R air cleaner	Claim Type:	A/D

## Parts

Parts are available from PACCAR Parts.

Quantity	Part Number	Description
6	2182962PE	Non-Brake Exhaust Valve Spring Washer
6	1819065PE	Non-Brake Exhaust Valve Guide Seal
6	2162785PE	Brake Exhaust Valve Guide Seal

## Procedure

### Diagnosis

1. Start a [SupportLink](#) case.
2. Perform diagnosis as directed by SupportLink.
3. Contact your RESM prior to making any repairs.
4. If the EGR Cooler is found to be plugged, remove it and start the cleaning progress. EGR Cooler cleaning claims will be processed through [PSB E215](#).

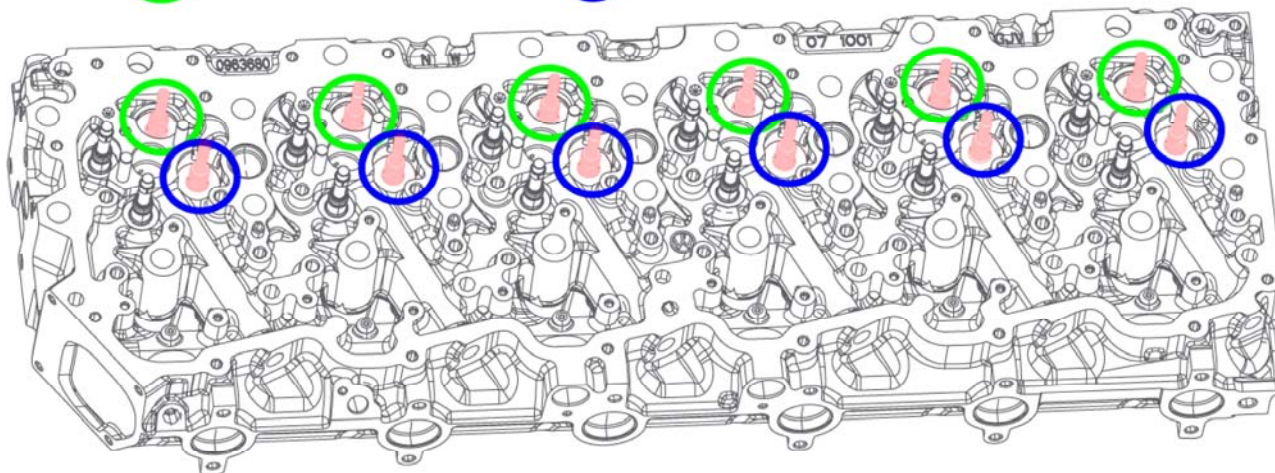
### Exhaust Valve Guide Seal Locations

The Valve Spring Compressor must be updated with the short arm to enable the tool to be used on cylinder 6. See [PSB E217](#) for details.

1. If directed to replace the valve guide seals, replace only the exhaust seals. See Engine Rapido for instructions and refer to the following figure for the location and part number of the new seals and the Non-Brake spring washer.
  - As you replace the seals, inspect the valves for visible wear. Valves with visible wear must be replaced. Contact RESM if valve stem wear is found

<b>NOTE</b>
Check the valve spring keepers. Reuse them if there is no obvious wear.

Figure 1 Valve Guide Seal Locations



Valve	Spring Washer	Seal
Non-Brake Exhaust Valve	2182962PE	1819065PE
Brake Exhaust Valve	N/A	2162785PE

Figure 2 Valve Stem With Visible Wear



2. Refer to [PSB E215](#) to clean the wet soot from the EGR and Aftertreatment systems.

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Authored by: OF

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# PACCAR<sup>Inc</sup> UPDATE PROCEDURE

Short Arm Update to MX Engine Valve Spring Compressor 1809922PE

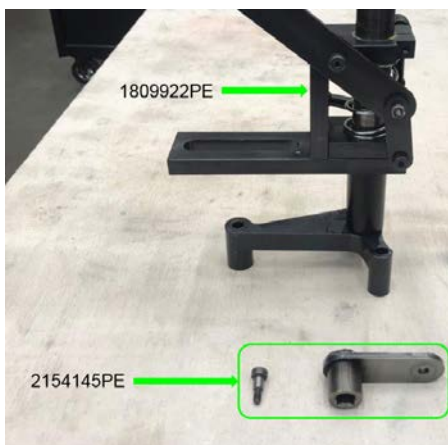
**ESB**

**KW E214**

**PB E214**

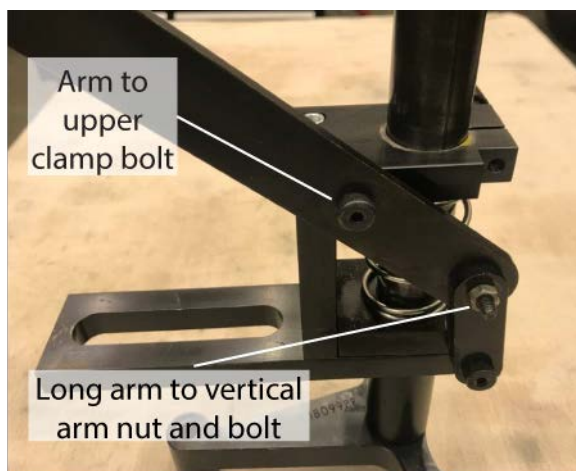
A short arm has been developed for the MX Engine Valve Spring Compressor that allows the rear cylinder valve springs to be serviced in chassis. The short arm kit allows the use of a ½ in. drive breaker bar or ratchet to operate the spring compressor.

This document provides the instructions to replace the original long arm with the short arm kit (2154145PE). The long arm and shim are not needed after installing the short arm kit.



## Procedure

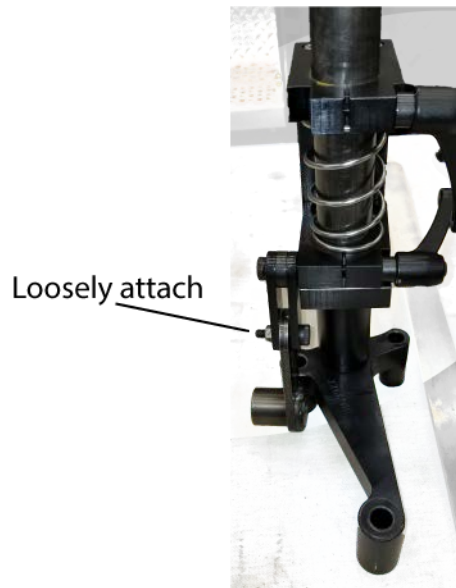
1. Remove the shoulder bolt that attaches the long arm to the upper clamp of the spring compressor.



2. Rotate the long arm to access the nut and bolt that attaches the long arm to the vertical arm and remove the nut and bolt.

## Short Arm Update to MX Engine Valve Spring Compressor 1809922PE

- Loosely attach the short arm to vertical arm with the removed nut and bolt.



- Rotate the short arm and install the supplied shoulder bolt through the ½ in. drive hole to secure the short arm to the upper clamp.

 NOTE
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Do not install the shim that was located between the long arm and the upper clamp.
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- Tighten the nut and bolt that attaches the short arm to the vertical arm.