

**SB-10043743-3393**A **PACCAR** COMPANY

Technical Information Bulletin

E050

Section

ECM/PMCI

Subject

PACCAR MX Engine HC Doser Shield and Software Update Campaign

Release Date

1/23/2012

Revision

01/30/12; The Warranty and Parts sections of this bulletin have been updated to reflect that PACCAR Parts now provides doser shields and clamps in kits rather than as individual pieces. (Prices for parts are the same as for kits.)

01/24/12; UPDATES:

- Several dealers have asked if they may update software before installing the doser shield. The answer is **NO. Do Not update a vehicle to software version 7.0_08 until the Doser shield has been installed.** This is necessary to prevent the potential for fuel spray to the turbo due to increased pressure.
- PRS software updates are not currently available for all chassis. PEP continues to be updated and all updated PRS files will be available by the time dealer orders for doser shields are filled.

Condition

Kenworth has determined that the chassis listed should have a protective shield for the HC Doser fitting

installed and software updates for the Engine Control Unit (ECU), identified as PMCI in Engine Rapido, and for the Aftertreatment Control Unit.

See the BACKGROUND section of this bulletin for a description of specific product improvement elements.

Chassis Affected

Select T660s, T700s, T800s, and W900s built between 05/20//09 – 12/22/11 and powered by PACCAR MX Engines. See the attached dealer-customer-chassis list and customer letter.

NOTE: The chassis list includes only units with PACCAR MX engines, model years 2010 and 2011. The engine model year can be confirmed from the engine emission label located on the valve cover. A certification statement at the lower left corner of the label includes the engine model year (2010 or 2011 for this campaign to apply).

Action

Service all chassis affected that enter your dealership, even if the customer has no issue with the chassis. Use the procedure below. Review DWC or SIR online systems to verify that campaign “E050” is still open or already completed prior to performing this repair.

NOTES:

- Software update bulletin E050 supersedes previous software update bulletin E045.
- A number of MX update bulletins have been published and a chassis subject to this service bulletin may be subject to others. Review campaign codes in DWC or SIR to ensure all applicable campaign repairs are completed while the chassis is at your dealership for service.

Warranty

There is no time or mileage limit for this campaign. Kenworth will pay parts at dealer net plus applicable mark-up and labor appropriate to the repair required. See the chassis list for reference to the appropriate Quick Claim, described below.

Quick Claim #	Work Performed	Total Time	Parts Used
E050A	Connect DAVIE & Reprogram ECU (0.7), Install Straight Shield (0.3)	1.0 hrs	1894206K1T – Doser Shield kit - Straight
E050B	Connect DAVIE & Reprogram ECU (0.7), Install Straight Shield (0.3), & Update Transmission (0.5)	1.5 hrs	1894206K1T – Doser Shield kit – Straight
E050C	Connect DAVIE & Reprogram ECU (0.7), Install Straight Shield (0.3), & CA Emissions Label (0.2)	1.2 hrs	Y53-1141 - Emissions Compliant Label 1894206K1T – Doser Shield kit– Straight
E050D	Connect DAVIE & Reprogram ECU (0.7), Install Straight Shield (0.3), Update Transmission (0.5), & CA Emissions Label (0.2)	1.7 hrs	Y53-1141 - Emissions Compliant Label 1894206K1T – Doser Shield kit – Straight
E050E	Connect DAVIE & Reprogram ECU (0.7) Install Down (Cobra) Shield (0.3)	1.0 hrs	1894205K1T – Doser Shield kit – Cobra
E050F	Connect DAVIE & Reprogram ECU (0.7), Install Down (Cobra) Shield (0.3), & Update Transmission (0.5)	1.5 hrs	1894205K1T – Doser Shield kit – Cobra
E050G	Connect DAVIE & Reprogram ECU (0.7), Install Down (Cobra) Shield (0.3), & CA Emissions Label (0.2)	1.2 hrs	Y53-1141 - Emissions Compliant Label 1894205K1T – Doser Shield kit – Cobra
	Connect DAVIE & Reprogram ECU (0.7), Install Down (Cobra) Shield	1.7 hrs	Y53-1141 - Emissions Compliant Label 1894205K1T – Doser Shield kit– Cobra

E050H	(0.3), Update Transmission (0.5), & CA Emissions Label (0.2)		
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Failure Location: 045-021-998 Work Accomplished: 58 Claim Type: A
 Failure Type: 700 Responsibility Code: 01

SRT Codes: *(as appropriate, not all SRTs apply to all chassis or Quick Claims)*

043-826	0.3 hr	Install HC Doser shield
045-880	0.7 hr	Connect DAVIE, download PRS and reprogram ECM
999-051	0.2 hr	Affix label (for chassis identified on chassis list only)
026-412	0.5 hr	Update transmission software (for identified chassis with Ultrashift Plus transmissions only)

Parts

Parts are available from PACCAR Parts. See the Chassis List and Quick Claim descriptions to identify parts required for the chassis being repaired.

Quantity	Part Number	Description
1	Y53-1141	Emissions Compliance label
1	54064753PE	Clamp – Band (used with either shield)
1	1894206PE	Doser Shield – Straight Pipe
- OR -		
1	1894205PE	Doser shield – Down (Cobra) Pipe

Update 1/30/12, parts have been assembled into kits for this campaign;

1894205K1T includes one each 1894205PE straight shield and 54064753PE clamp

1894206k1T includes one each 1894206PE Cobra shield and 54064753PE clamp

Background

Elements of the campaign and resulting enhancements are as follows:

- A protective shield has been designed for the HC Doser fitting to prevent fuel spray to the turbo due to increased pressure. **Do Not update a vehicle to software version 7.0_08 until the Doser shield has been installed.**
- The software update includes calibrations to address false warnings with the following fault codes:
 - P1136 “Lambda Sensor Short Circuit To Ground On ECU Pin C46”
 - P1139 “Lambda Sensor Calibration”
 - P1711 “NOx Before Catalyst Plausibility Signal Value Higher Than Expected”
 - P3769 “Diesel Oxidation Catalyst (DOC) Temperature Rise Insufficient”
 - P3782 “Diesel Particulate Filter (DPF) Too Frequent Regeneration”
 - P3816 “Selective Catalytic Reduction (SCR) Efficiency Not Reached”
 - P3835 “Fuel dosing Module Fuel Circuit Leakage”
- Additional system improvements from software update include the following:
 - Engine idle shutdown timer
 - Controller Area Network (CAN) bus faults effecting torque limit
 - Fuel economy improvements (up to 1%)
 - PACCAR Engine Brake (PEB) activation and deactivation
 - PACCAR Engine Brake (PEB) CAN-bus signal
 - Pass through communication for Doser Control Unit (DCU)
 - PMCI chart recorder improvements (see Engine Rapido for detail)
 - PMCI snapshot recorder improvements (see Engine Rapido for detail)
 - PMCI trip recorder improvements (see Engine Rapido for detail)
 - PTO governor stability improvements (see Engine Rapido for detail)

- Torque limit calculation
 - Turbo actuator diagnostic
 - Water In fuel (WIF) sensor update
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Procedure

Perform the following two procedures in sequence; first E050 PACCAR MX Engine Doser Shield Procedure, and second E050 PACCAR MX Engine Software Update Procedure. Do not update the vehicle software until the doser shield has been installed

 [E050 Doser Shield Procedure.pdf](#)

 [E050 Software Procedure.pdf](#)

Attachments

 [E050 Dealer, Customer and Chassis List.xls](#)

 [E046-E050 customer letter.pdf](#)

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