



Technical Service Bulletin

Technical Service Bulletin: TSB160094	Released Date: 09-Sep-2016
Circular Tube Exhaust Gas Recirculation (EGR) Cooler	

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

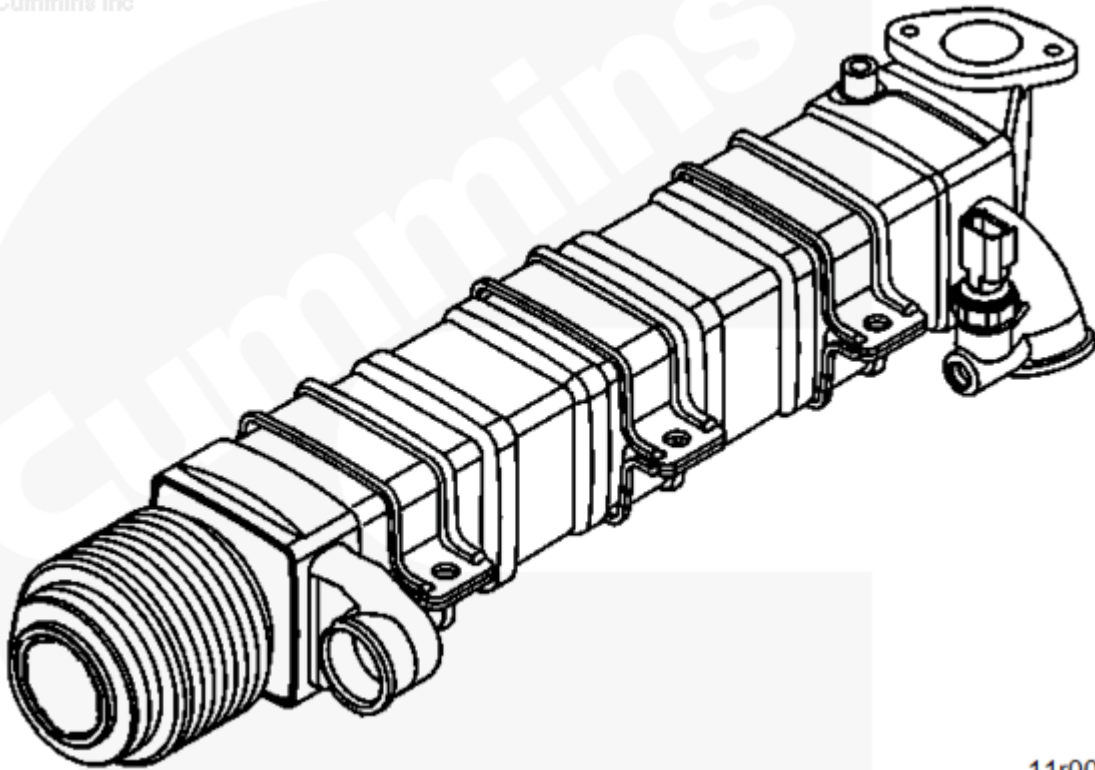
Contents

Product Affected

- ISL G CM2180

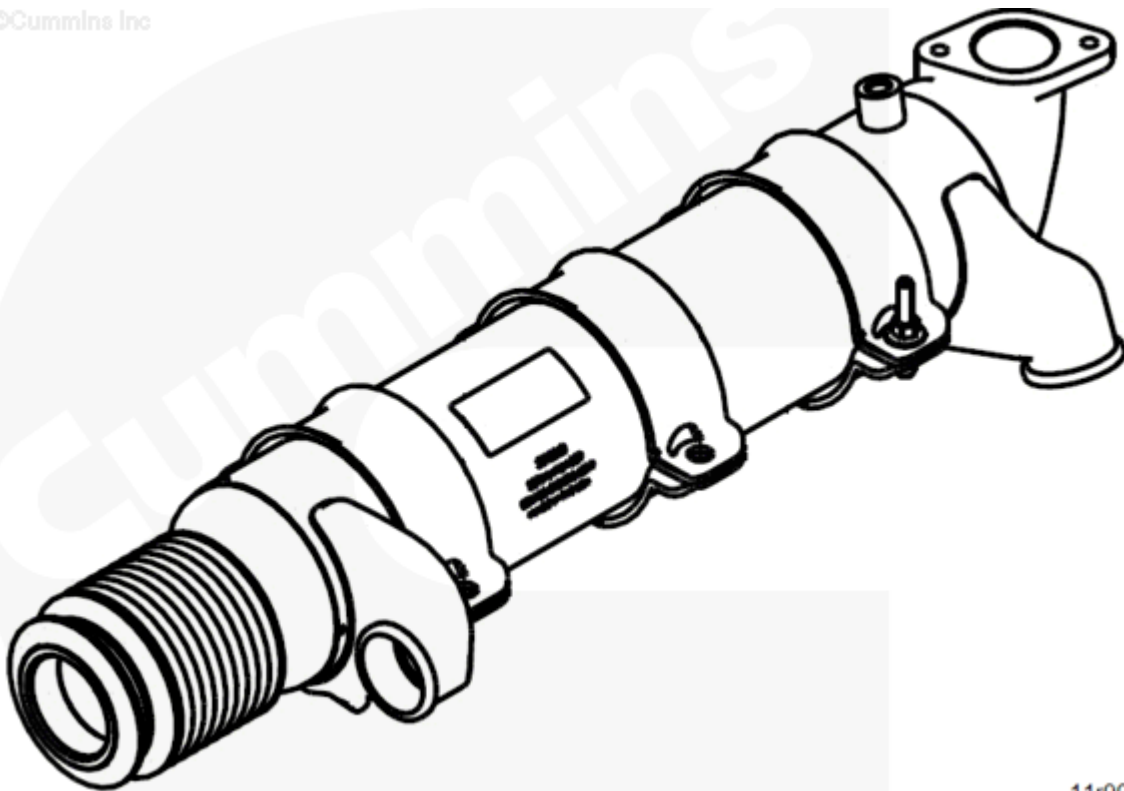
Description of Change

- This document announces the release of a circular cross-section exhaust gas recirculation (EGR) cooler which contains internal circular tubes.
 - The circular tube EGR cooler replaces the existing square EGR cooler which contains horizontal plates.
 - See Figures 1 and 2 below for examples of each EGR cooler design.
 - An EGR cooler submerged pressure test has been developed and is now a required diagnostic step prior to replacement of the EGR cooler. Refer to Procedure 011-019 (</qs3/pubsys2/xml/en/procedures/45/45-011-019-tr-islg.html>) in Section 11.
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Figure 1, Square EGR Cooler, Part Number 4990739.



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Figure 2, Circular Tube EGR Cooler, Part Number 5318560 or Part Number 5347234.

Reason for Change

- The circular tube EGR cooler is a more robust EGR cooler design.

Service Instructions

- The new circular tube EGR cooler, Part Number 5347234 (kit part number 4376312), **must** be used for all EGR cooler replacements.
- Updating to the new circular tube EGR cooler requires an installation kit. See Table 1 below for the installation kit Part Number. The installation kit contains the coolant vent line required for installation of the new circular tube EGR cooler.
 - To replace the coolant vent line, see ISL G CM2180 Service Manual, Bulletin 4021649. Refer to Procedure 008-017 (/qs3/pubsys2/xml/en/procedures/45/45-008-017-tr-islg.html) in Section 8.
 - To replace the EGR cooler, see ISL G CM2180 Service Manual, Bulletin 4021649. Refer to Procedure 011-019 (/qs3/pubsys2/xml/en/procedures/45/45-011-019-tr-islg.html) in Section 11.
- The circular tube EGR cooler requires a different leak test kit than the horizontal plate EGR cooler.
 - To determine which leak test kit Part Number is required, see ISL G CM2180 Service Manual, Bulletin 4021649. Refer to Procedure 011-019 (/qs3/pubsys2/xml/en/procedures/45/45-011-019-tr-islg.html) in Section 11.

Note : For Peterbilt™ 320 chassis: A new original equipment manufacturer (OEM) air intake pipe, D66-6894 pipe-air intake, may be needed in addition to the applicable kit listed in Table 1 below.

Service Parts Availability

Table 1, Service Parts					
EGR Cooler Design	Turbocharger Mounting Option	EGR Cooler Component Part Number	Replacement EGR Cooler Kit Part Number	Required Installation Kit Part Number	Associated EGR Cooler Pressure Test Kit Part Number
Square	High Mount	4990739	4376312	4352347	4919688 Or 4918625 used with 4919691
Square	Low Mount	4990739		4352348	
Circular	Any	5318560 or 5347234		Not Applicable	5299224

Part Identification

- The horizontal plate EGR cooler has a square cross-section with flat internal plates.
- The circular tube EGR cooler has a circular cross-section with circular internal tubes.

Production Status

Table 2, Circular Tube EGR Cooler Production Information		
ESN First	Build Date ¹	Plant
73640842	31-Jan-14	Rocky Mount Engine Plant
¹ Engine build date can be found on the engine dataplate.		

Publications Affected

Table 3, Publications Affected					
Manual Type	Engine	Bulletin Number	Procedure Title	Procedure	Section
Service Manual	ISL G CM2180	4021649	EGR Cooler	011-019	11

Document History

Date	Details
2016-9-2	Module Created

Last Modified: 09-Sep-2016
