



# Technical Service Bulletin

<b>Technical Service Bulletin:</b> TSB130159	<b>Released Date:</b> 05-Sep-2018
<b>Fault Code 3167 or 1691 Caused by a Missing Poppet in the EcoFit™ Aftertreatment Fuel Injector</b>	

## Fault Code 3167 or 1691 Caused by a Missing Poppet in the EcoFit™ Aftertreatment Fuel Injector

### 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

This document informs the field of a missing poppet in the EcoFit™ aftertreatment fuel injector causing Fault Code 3167 or 1691.

This issue is isolated to the new EcoFit™ aftertreatment fuel injector design. The new EcoFit™ aftertreatment fuel injector is susceptible to the inner poppet falling out due to a worn retaining spring retainer. This situation can increase the probability of fouling that can cause a high restriction of the injection of fuel into the aftertreatment system.

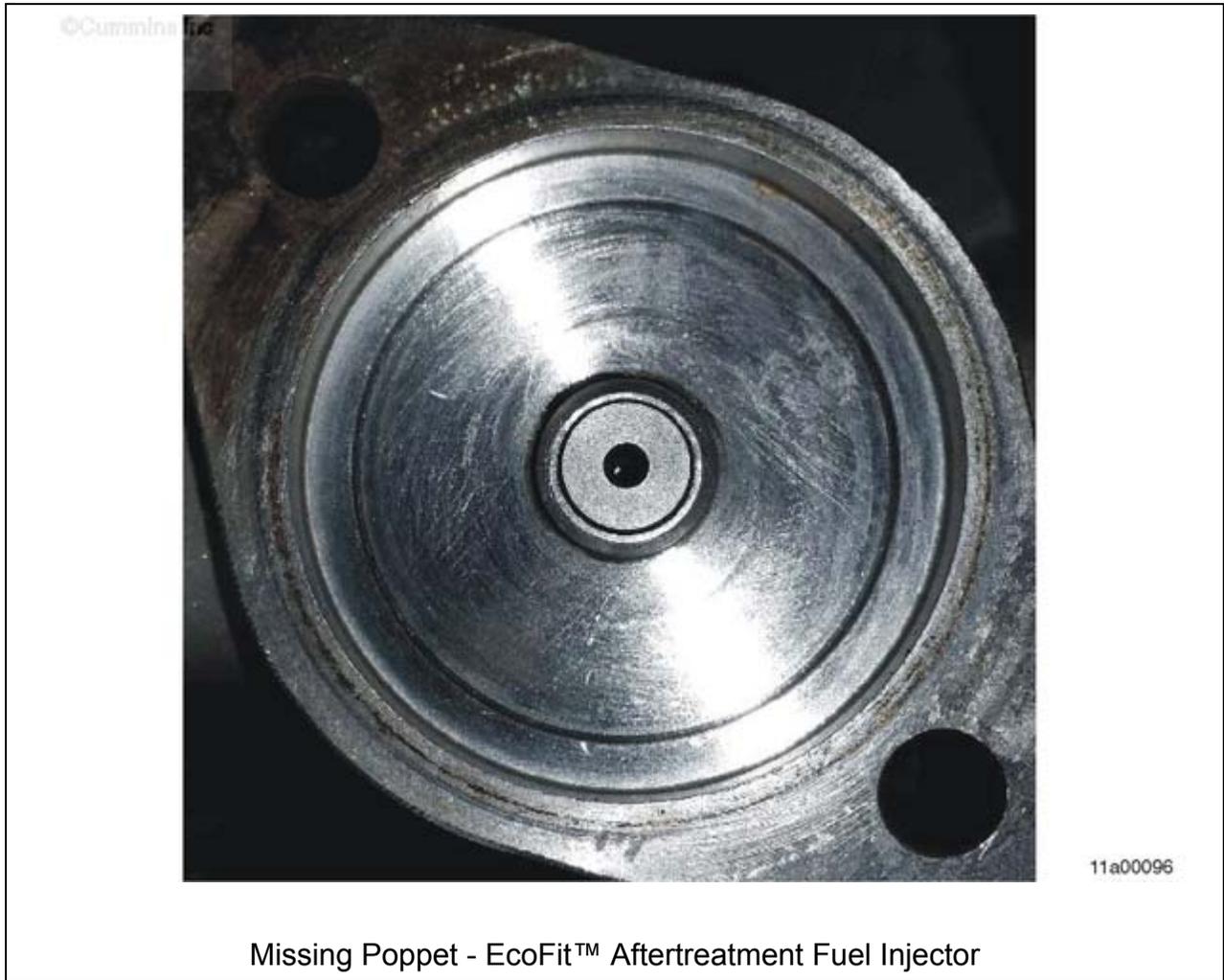
See Table 1 to reference the affected part numbers:

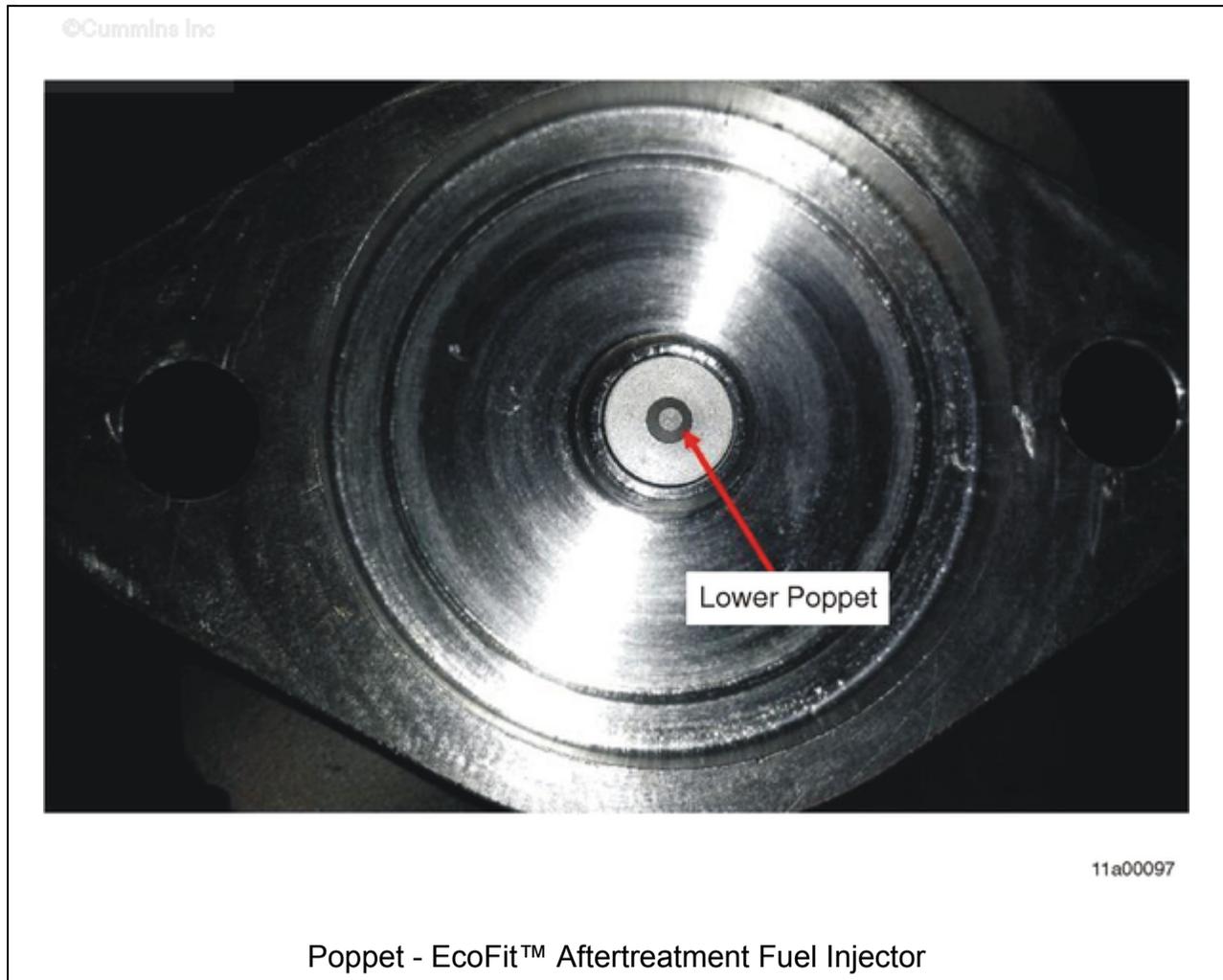
<b>Table 1</b>		
<b>Engine Family</b>	<b>EcoFit™ Aftertreatment Fuel Injector Part Number</b>	<b>EcoFit™ Aftertreatment Fuel Injector Service Kit Part Number</b>
ISX CM871 ISM CM876	5300987	4309454NX

<b>Table 1</b>		
<b>Engine Family</b>	<b>EcoFit™ Aftertreatment Fuel Injector Part Number</b>	<b>EcoFit™ Aftertreatment Fuel Injector Service Kit Part Number</b>
ISX 12 CM2250 ISX 15 CM2250 QSX11.9 CM2250 QSX15 CM2250 ISX12 CM2350 ISX15 CM2350 QSX15 CM2350 X106	5294110	4309349NX

- The engine control module (ECM) illuminates the amber CHECK ENGINE lamp and/or the malfunction indicator lamp (MIL).
- Fuel injection into the aftertreatment system is **not** sufficient to perform active regeneration of the aftertreatment diesel particulate filter.

Malfunctioned EcoFit™ aftertreatment fuel injectors will have a hole in the center of the injection point. A normal EcoFit™ aftertreatment fuel injector will have a visible plunger (poppet) at the center of the injection point.





If the EcoFit™ aftertreatment fuel injector is missing the lower poppet, replace the aftertreatment fuel injector.

<b>Table 2</b>		
<b>Engine Family</b>	<b>Engine Build Date</b>	<b>Engine Serial Number First</b>
ISX15 CM2350 X101	6-Feb-14	79717919
ISX12 CM2350 X102	5-Feb-14	75026326

## Document History

<b>Date</b>	<b>Details</b>
2013-11-4	Module Created
2014-5-8	typo correction

Date	Details
2014-9-30	none
2018-9-4	Added QSX15 CM2350 X106.

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**Last Modified: 05-Sep-2018**

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