



IMPORTANT SERVICE INFORMATION FOR:

- ✓ SERVICE MANAGER
- ✓ SERVICE ADVISOR
- ✓ TECHNICIAN
- ✓ PARTS DEPARTMENT
- ✓ WARRANTY PERSONNEL

BULLETIN NUMBER:
SB12-J-002A

ISSUE DATE:
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GROUP:
ENGINE

ILLUMINATED CHECK ENGINE MALFUNCTION INDICATOR LIGHT (DTC P0087) – SUPPLY PUMP BOLT W/FILTER RESTRICTION

AFFECTED VEHICLES

- 2011-2013MY Isuzu N-Series
Equipped with 5.2L 4HK1 Diesel Engine

This bulletin supersedes SB12-J-002. This bulletin is being revised to update Model Years. Please disregard bulletin SB12-J-002.

INFORMATION

Some customers may experience various drivability concerns along with an illuminated Check Engine Malfunction Indicator Light (MIL) and reduced engine vehicle speed. Technician diagnosis finds DTC P0087.

In some cases, normal diagnosis may not identify the root cause for setting this DTC. If normal diagnosis cannot determine the cause of P0087, follow the below service procedure information to identify other root cause(s).

SERVICE PROCEDURE

Step	Description	Value	Yes	No
1	Download Health Report Data	–	Go to Step 2	
2	Check the following for an abnormal condition: <ul style="list-style-type: none"> • Fuel level • Air in the fuel lines • Fuel rail pressure actual vs. desired • Fuel rail pressure sensor zero • Fuel supply pump low side pressure Was a problem found and corrected?	–	Problem Resolved	Go to Step 3
3	Check that the fuel supply pump low side fuel pressure at 2200 rpm. Is the pressure below the specified value?	116 psi (800 kPa)	Go to Step 5	Go to Step 4

Step	Description	Value	Yes	No
4	<p>Check the following to parts for contamination:</p> <ul style="list-style-type: none"> Fuel Sedimenter filter Eye Bolt (see figure 1) <p>Was contamination/rust found in either part?</p>	–	Go to Step 5	Go to Step 6
5	<p>The fuel system has been contaminated. Replace the following parts:</p> <ul style="list-style-type: none"> Fuel Sedimenter filter Main fuel filter Eye Bolt (see figure 1) Supply Pump Bolt w/filter* (see figure 2) <p>Find the source of the contamination. Drain the fuel tank, inspect the fuel tank pick up tube, and the fuel gauge sending unit.</p> <p>Replace the following parts as necessary:</p> <ul style="list-style-type: none"> Fuel tank pick up tube Fuel gauge sending unit Drain plug <p>Was the repair completed?</p>	–	Go to Step 6	
6	<p>Reprogram the ECM if the calibration ID is lower than the one listed in the reference chart provided in this bulletin.</p> <p>Road test the vehicle to confirm the DTC does not reset.</p> <p>Did the code reset?</p>	–	Go to Step 7	Problem Resolved
7	<p>Replace the Fuel Rail Pressure (FRP) Regulator/Suction Control Valve (SCV).</p> <p>Road test the vehicle to confirm the DTC does not reset.</p> <p>Did the code reset?</p>	–	Contact Technical Assistance	Problem Resolved

*** NOTE: It is necessary to remove Supply Pump to change Supply Pump Bolt with filter.**

Calibration ID numbers for reference.

Model Year	Trans.	GVW	Calibration ID
2011	AUTO	14,500 lb GVWR	98202019 – or Higher
	AUTO	17,950 / 19,500 lb GVWR	98202020 – or Higher
	MANUAL	14,500 lb GVWR	98201976 – or Higher
	MANUAL	17,950 / 19,500 lb GVWR	98201977 – or Higher
2012	AUTO	14,500 lb GVWR	98201978 – or Higher
	AUTO	17,950 / 19,500 lb GVWR	98201979 – or Higher
	MANUAL	14,500 lb GVWR	98201980 – or Higher
	MANUAL	17,950 / 19,500 lb GVWR	98201981 – or Higher

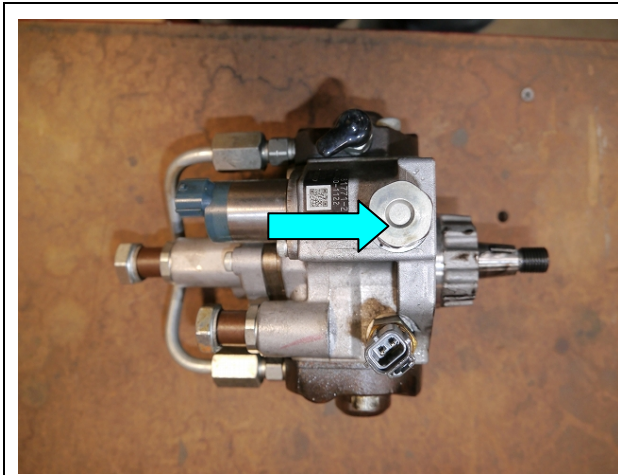


Figure 1 - Eye Bolt
Torque the new eye bolt to 17.2 Nm (12 lb ft)

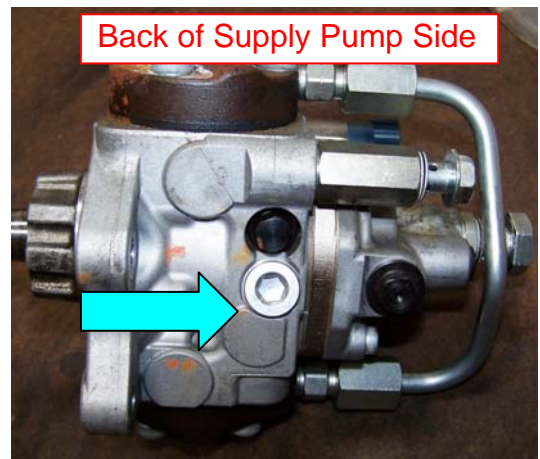


Figure 2 - Supply Pump Bolt w/Filter location
Torque the hex nut to 17.2 Nm (12 lb ft)

PARTS INFORMATION

The following new parts are available from AIPDN.

Part Number	Description	Qty	Comment
8-98200-752-0	Eye Bolt	1	
8-98204-986-0	Supply Pump Bolt w/Filter	1	
8-98201-967-0	Pipe Assembly	1	Center Tank
8-98202-438-0	Drain Plug	1	Center Tank
8-98203-548-0	Tank (Sending) Unit	1	Center Tank
8-98202-438-0	Drain Plug	1	Side Tank
8-98203-549-0	Tank (Sending) Unit	1	Side Tank

WARRANTY INFORMATION

For vehicles covered under the basic warranty, the below labor operation codes are provided to better identify this repair. Please select the appropriate labor operation based on the repair.

Labor Code	Description	Labor Time	Comments
J8004	Supply Pump Bolt w/Filter, Replace	1.9	Includes diagnosis
	Add: Fuel Tank Pick Up Pipe and Tank (Sending) Unit, Replace	1.6	
	Add: ECM Reprogramming	0.3	
	Add: Fuel Rail Pressure (FRP) Regulator/Suction Control Valve (SCV), Replace	0.2	