SB-10056916-8382

IMPORTANT SERVICE INFORMATION FOR:

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

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SB14-L-002A

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GROUP:
FUEL & EXHAUST

SCR CALIBRATION UPDATE – REPROGRAM DCU

AFFECTED VEHICLES

- 2011-2015MY Isuzu N-Series
  Equipped with 5.2L (4HK1) and 3.0L (4JJ1) Diesel Engines

This bulletin supersedes bulletins SB14-L-002 and SB13-L-001B. This bulletin is being updated to add DTC P1490 and to revise Labor Operation Code information. Please discard previous bulletins SB14-L-002 and SB13-L-001B.

INFORMATION

Some customers may experience a Malfunction Indication Light (MIL) illuminated with one or more of the following DTCs set in the DEF Control Unit (DCU). If one or more of the following DTCs are present, perform the service procedure in this bulletin.

DTC	AFFECTED MYs
U029D – Lost Communication with NOx Sensor 1 or NOx Sensor CAN Communication	2011-2015
U029E – Lost Communication with NOx Sensor 2	2011-2015
***P1490** – Diesel Exhaust Fluid (DEF) System NOx Trap Low Efficiency	2011-2014
P242B – Exhaust Gas Temperature (EGT) Sensor 3 Performance	2012-2015
P208E – Diesel Exhaust Fluid (DEF) Injector Stuck	2012-2015
P1035 – NOx Sensor Stuck High Sensor 2	2014-2015
P205B – Diesel Exhaust Fluid (DEF) Tank Temperature Sensor Performance	2014-2015

SERVICE PROCEDURE

1. If only one DTC listed in the bulletin is set in the DCU, follow the DTC diagnostic in the workshop manual.

   ***NOTE: If DTC P1490 is present, perform the procedure below.**

   Complete the current workshop manual diagnostics for any other DTC and for DTC P1490. Perform the following specific checks to be sure there are no related component failures prior to completing this procedure. If no fault can be found, follow the service procedure in this bulletin to correct this concern.

   - Inspect the Diesel Exhaust Fluid (DEF) tank sight tube. If the DEF is discolored, suspect contamination.
   - Inspect the clarity of DEF samples from the top, middle and bottom levels of the DEF tank.
   - Test DEF samples using DEF Refractometer Tool EN-50422. Normal Urea concentration is 32.5% +/- 3%.
   - Check the engine oil level and adjust if needed. Overfilling may cause a skewed MAF reading.
   - Check the air filter for contamination and correct orientation (OEM filter has “UP” indicated).
   - Using Isuzu Diagnostic Service System (IDSS) output controls command the DEF pump to 20% duty cycle and confirm DEF pump pressure is ~130-150 psi.
   - Remove the DEF injector, leaving coolant and DEF supply lines connected. Inspect for leakage when DEF pump commanded as indicated above.

   NOTE: DEF crystals on the tip of the DEF injector is not a sign of the injector leaking.

   - Check the DEF injector for correct spray using EL-50928. Refer to the *DEF Injector Test in SCR Control System Diagnostic Information and Procedures* in the appropriate service manual.
   - For 2011 and 2012 model year N-Series vehicles, verify that information bulletin SB12-L-003A has been completed, if applicable.

   If no fault is found using the workshop manual diagnosis, reprogram the DCU with the latest calibrations using the Isuzu Diagnostic Service System (IDSS II) v8.0.4 or greater if the calibration part number is NOT in the following table.

2. If two or more of the DTCs listed in the bulletin are set in the DCU, reprogram the DCU with the latest calibrations using IDSS II v8.0.4 or greater if the calibration part number is NOT listed below.

MY	Vehicle	Engine	Trans	Calibration #
2011	NPR - Ecomax	3.0L	AUTO	98276623 or Higher
2011	NPRHD, NQR, NRR	5.2L	MANUAL	98276621 or Higher
2011	NPRHD, NQR, NRR	5.2L	AUTO	98276622 or Higher
2012	NPR - Ecomax	3.0L	AUTO	98276626 or Higher
2012	NPR Stripped Chassis	3.0L	AUTO	98276626 or Higher
2012	NPRHD, NQR, NRR	5.2L	MANUAL	98276624 or Higher
2012	NPRHD, NQR, NRR	5.2L	AUTO	98276625 or Higher
2013	NPR - Ecomax	3.0L	AUTO	98276630 or Higher
2013	NPR Stripped Chassis	3.0L	AUTO	98276630 or Higher
2013	NPRHD, NQR, NRR	5.2L	MANUAL	98276627 or Higher
2013	NPRHD, NQR, NRR	5.2L	AUTO	98276628 or Higher
2014	NPR - Ecomax	3.0L	AUTO	98276632 or Higher
2014	NPR Stripped Chassis	3.0L	AUTO	98276632 or Higher
2014	NPRHD, NQR, NRR	5.2L	AUTO	98276629 or Higher
2015	NPRHD, NQR, NRR	5.2L	AUTO	98276631 or Higher

WARRANTY INFORMATION

For vehicles covered under warranty use:

Labor Operation	Description	Labor Time
J8011	Diagnostic Calibration, Reprogram DCU	0.4

The number will not be published in the Labor Time Guide.