

SERVICE INFORMATION BULLETIN

Subject:

Supply Pump Suction Control Valve Design Change – J08E Engines

Supersedes SB-07-006 dated 04-07-2008

(Revised 2-24-2009 to include 2010 model year vehicles)

This bulletin provides diagnostic information for monitoring the engine running data to determine if the Suction Control Valve is defective, and a service procedure for replacing the Suction Control Valve when necessary. The SCV should be tested and replaced when necessary before replacing the supply pump assembly for a fuel pressure related concern.

1. RELEVANT MODELS

2005-2010 ND8J (238), NE8J (268), NJ8J (268A), and NV8J (338) Conventional Cab all Models equipped with a J08E engine.

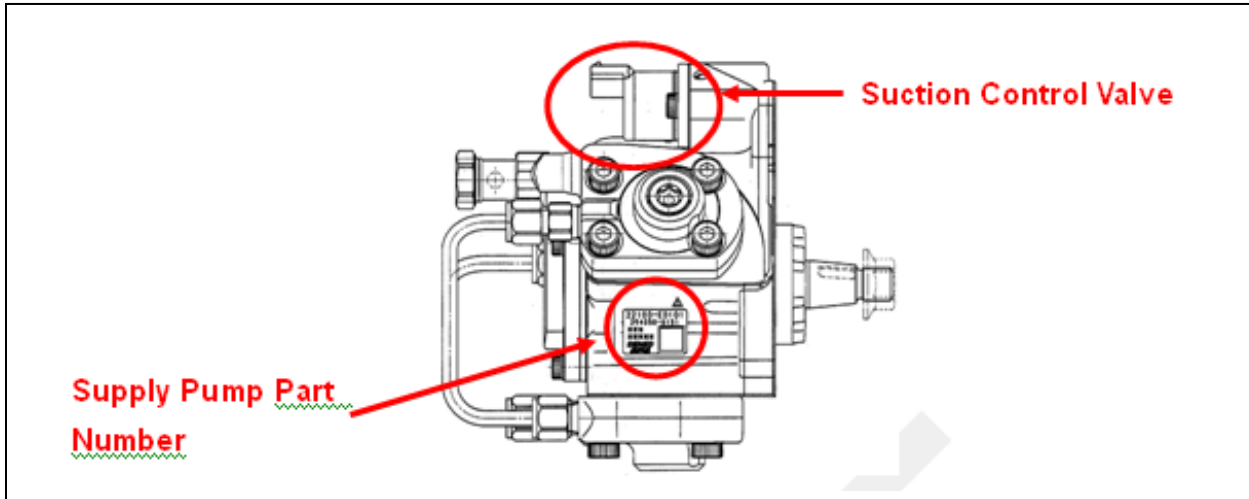
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2005-2010 model year vehicles may exhibit a low or fluctuating idle, low power complaint, or a Final Pump current value that is higher or lower than expected. In the past it was necessary to replace the supply pump to correct an incorrect pump current value reading. Hino has released the Suction Control Valve as a service part and in the following will provide a service procedure for diagnoses and replacement of the SCV.

PARTS:

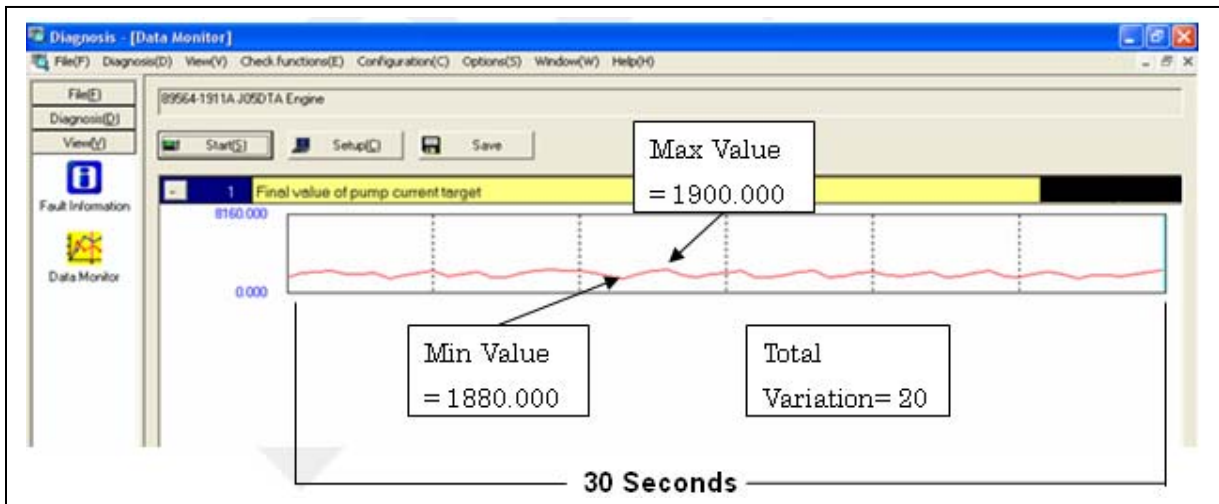
| Model Year | Supply Pump Part Number | SCV Kit Part Number |
|------------|-------------------------|---------------------|
| 2005-2007 | 22100E0270 | 04226E0090 |
| 2008-2010 | 22100E0100 | 04226E0100 |
| | 22100E0101 | |
| | 22100E0102 | 04226E0090 |

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DIAGNOSES:

- 1) Allow the engine to reach normal operating temperature. (70° C or 158° F)
- 2) With engine at base idle and all extra loads turned off such as A/C, PTO, etc., monitor the “ Final value of pump current target “ using Diagnostic eXplorer
- 3) Monitor the “Final value of pump current target “ for 30 seconds.



- 4) Record the Maximum and Minimum values reached during the 30 second time frame
 - Take note of the average current value.
 - Calculate the maximum current variation value. Maximum variation is calculated by subtracting the Minimum value from the Maximum value
 - Reference the table below

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JUDGEMENT:

| Model Year | Engine Model | Base Idle (RPM) | Maximum Allowable Variation | Expected Average Current Value |
|------------|------------------------|-----------------|-----------------------------|--------------------------------|
| 2005-2007 | J08E - TA J08E - TB | 750 | 120 | 1550~1950mA |
| 2008-2010 | J08E - TW J08E - TV | 750 | 160 | |

SCV GOOD

- Average pump current values are within expected range
- Total Variation is less than 120 for J08E - TA / TB engines and less than 160 for J08E TW / TV engines.

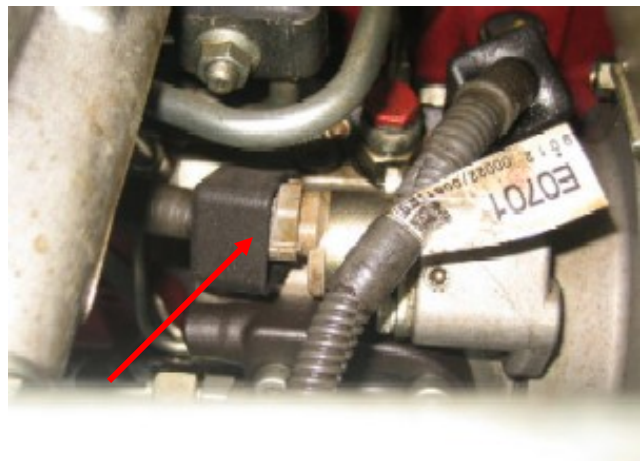
SCV NO GOOD

- Average pump current target is less than or greater than expected average
- Total Variation is greater than 120 for J08E - TA / TB engines and greater than 160 for J08E TW / TV engines.

5) Continue to service procedure if the SCV was found to be No Good during diagnoses

SERVICE PROCEDURE:

- 1) Disconnect the SCV connector.
 Do not use excessive force when disconnecting or connector damage will result.



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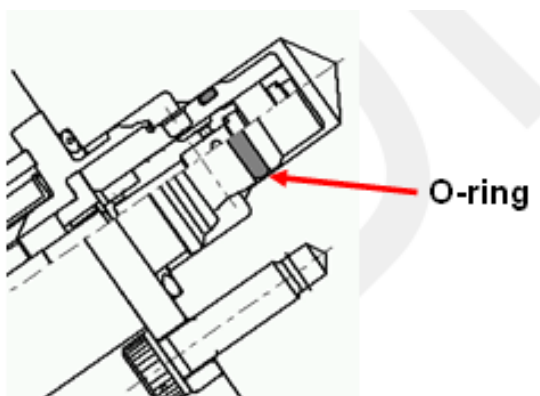
- 2) Clean the SCV and mounting area.
Be sure to keep the area around the SCV clean to prevent dirt or foreign material from sticking to the pump housing or installation surface.



- 3) Remove the two SCV mounting bolts.



- 4) Remove the SCV by rotating right and left while gently pulling to disengage the O-ring.



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- 5) Remove the O-ring from the pump housing and discard.



- 6) Confirm that the SCV replacement kit contains all the parts shown.



- 7) Install new O-ring into the pump housing. Make sure the O-ring groove is free from dirt and debris.



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- 8) Apply a light coat of fresh oil to the small O-ring to ease installation, and to prevent O-ring damage.



- 9) Apply a light coat of fresh oil to the Adapter O-ring

(If using Kit P/N S227311082).

Insert the O-ring into the adapter.

Install the adapter onto the SCV.



- 10) Install the SCV or the SCV and adapter into the supply pump housing.

Confirm the O-rings are fully seated into each groove.

Hand tighten the SCV mounting bolts.



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- 11) Torque the SCV mounting bolts.
Make sure the tool is not on an
incline or hexagon bolt
damage/breakage will result.

78.3 in. lbs. (8.85 Nm)



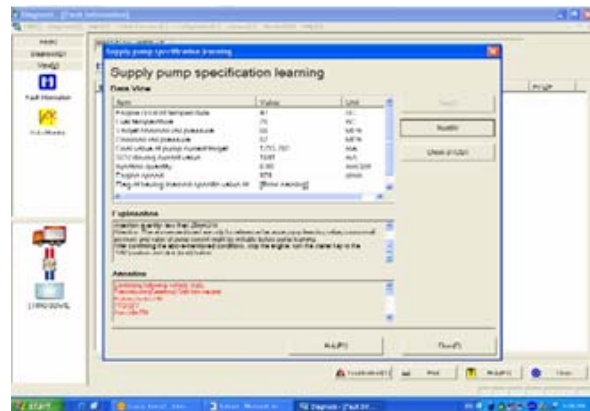
- 12) Re-connect the SCV connector.



- 13) Start and idle the engine.

Once the engine temperature reaches
176F (80C), use Diagnostic Explorer
to re-learn the fuel supply pump.

- 14) Inspect for leaks in the SCV and
mounting area.



NOTE: If within warranty coverage (2 years unlimited mileage) use the following claim information:

CLAIM INFORMATION:

- a) TSB No. 001-09
- b) Time allowance: 1.0h / Unit
- c) Warranty code: 0618940
- d) Operation code: 06150AOT