

# SERVICE INFORMATION BULLETIN

**Subject: Suction Control Valve / Fuel Supply Pump**

Supersedes SB-07-006 dated 10-4-07

*(Revised 4-7-2008 to include 2008-2009 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**

2005-2009 Conventional Cab all Models

**2. CONTENTS**

2005-2009 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.

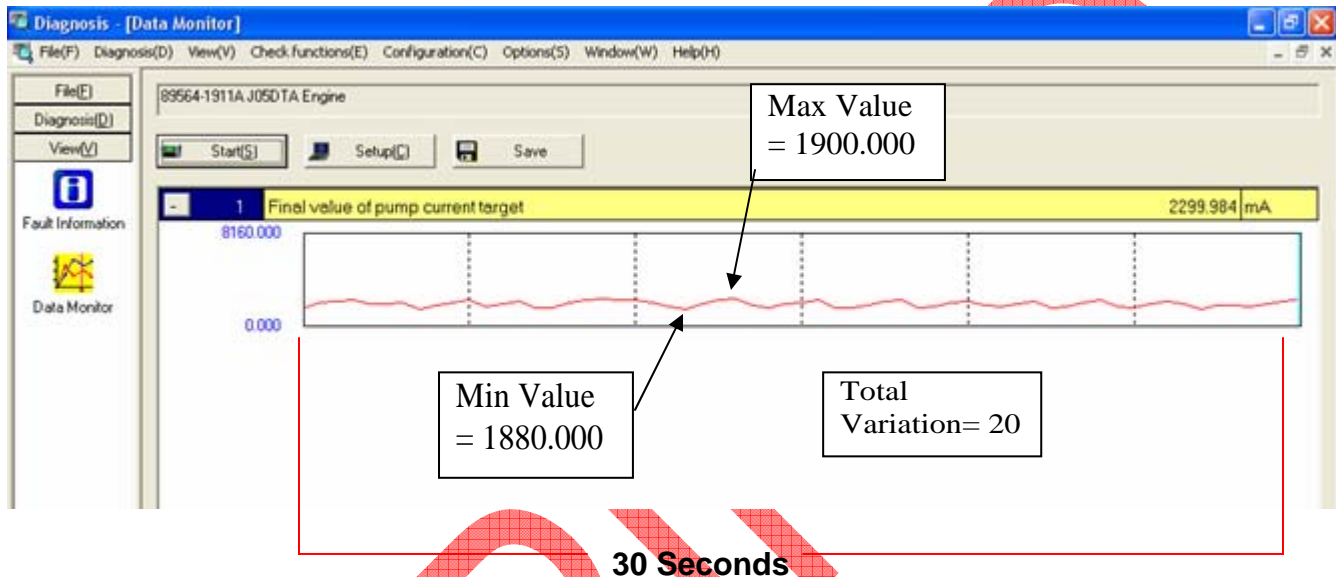
**PARTS:**

PART NAME	MODEL YEAR	PART NO.	Qty.	ENGINE MODEL
Valve Pump Control Kit	2005-2007	S227311100	1	J05D-TA
		S227311060	1	J08E-TA, J08E-TB
	2008-2009	S227311121	1	J05D-TF
		S227311081	1	J08E-TW, J08E-TV

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## 3. DIAGNOSES

- Allow the engine to reach normal operating temperature. ( 70° C or 158° F )
- 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.
- Monitor the “Final value of pump current target “ for 30 seconds.



- 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.

Model Year	Engine Model	Base Idle (RPM)	Maximum Allowable Variation	Expected Average Current Value
2005-2007	J05D-TA	750	120	1550~1950mA
	J08E-TA & TB			
2008-2009	J05D-TF	750	160	1550~1950mA
	J08E-TW, TV			

### SCV GOOD

- Average pump current values are within expected range.
- Total Variation is less than 120.

### SCV NO GOOD

- Average pump current target is less than or greater than expected average.
- Total Variation is greater than 120.

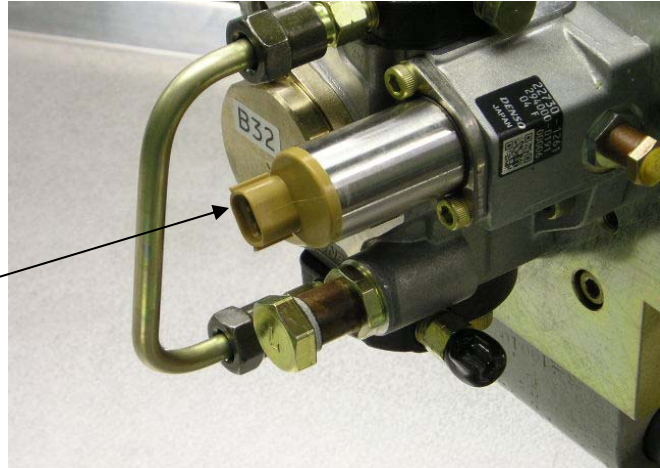
- Continue to service procedure if the SCV was found to be No Good during diagnoses.

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## 4. SERVICE PROCEDURE

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

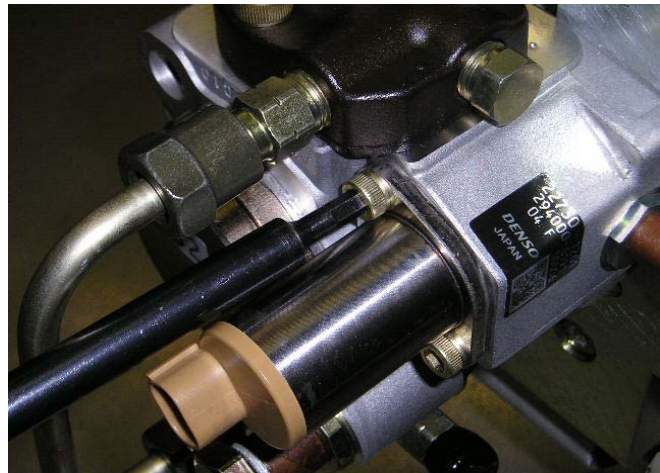
Connector



- b) 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.

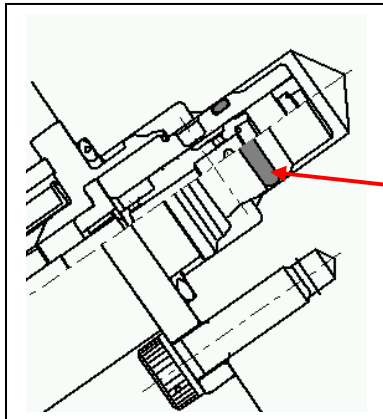


- c) Remove the two SCV mounting bolts.

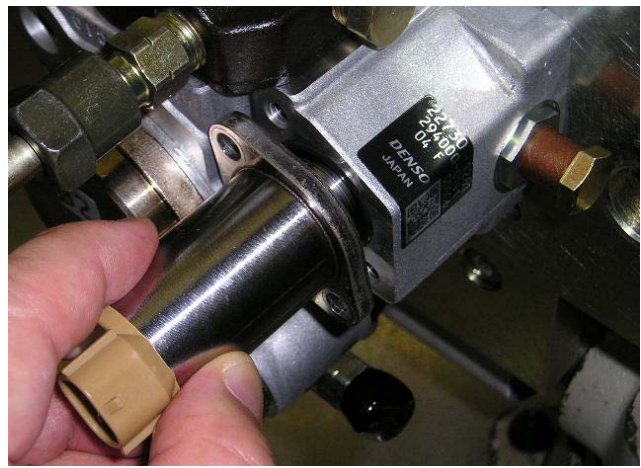


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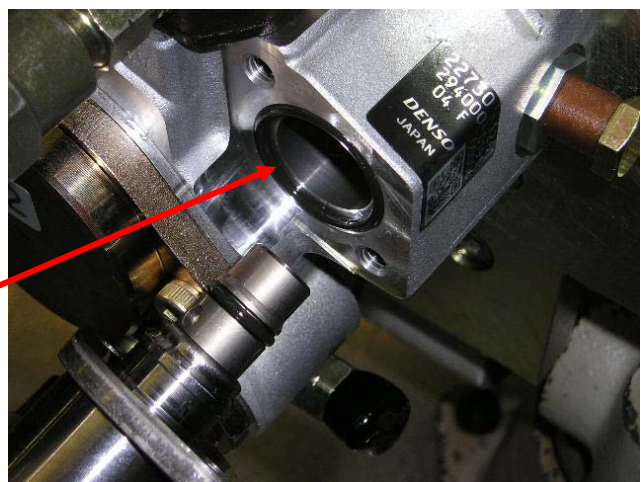
d) Remove the SCV by rotating right and left while gently pulling to disengage the O-ring.



O-ring



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

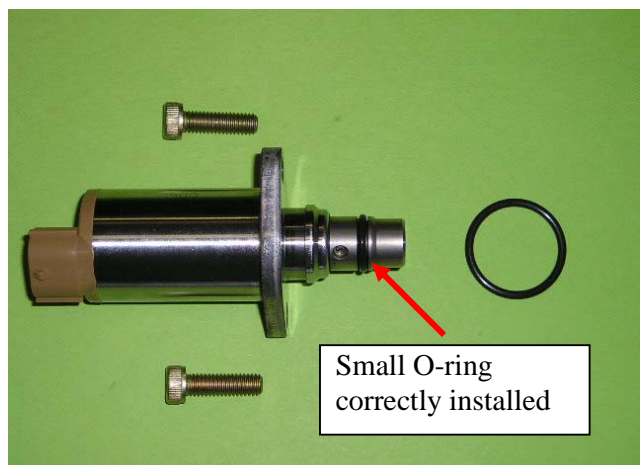


O-ring

f) Confirm that the SCV replacement kit contains all the parts shown in the picture.

**Parts:**

- SCV
- 2 Bolts
- Large O-ring
- Small O-ring



Small O-ring correctly installed

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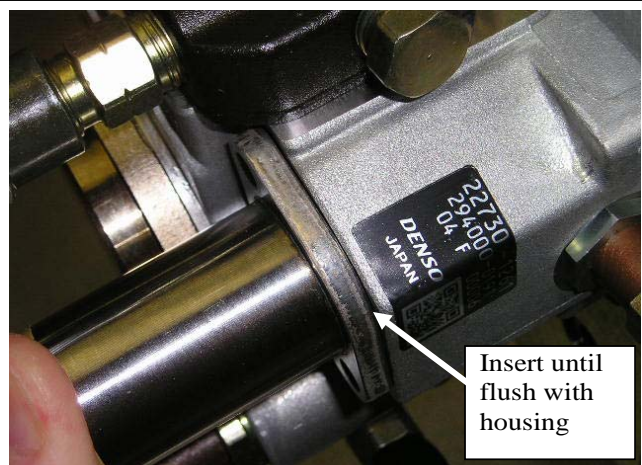
- g) Install new O-ring in to the pump Housing. Make sure the O-ring groove is free from dirt and debris.



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



- i) Insert the SCV in to the pump housing by gently rotating right and left until the SCV is flush with the pump housing.

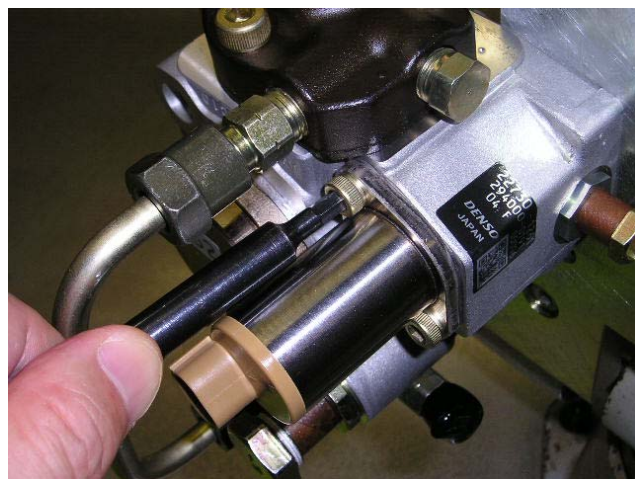


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- j) Hand tighten the SCV mounting bolts making sure the bolts are equally tightened to prevent binding.

**<< NOTE >>**

**Make sure the connector faces the correct direction. Direction will vary with part number.**



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

**5- 8 lbf. ft. (6.9-10.8 Nm)**



- l) Re-connect the SCV connector.  
m) Clean the SCV mounting area.  
n) Update the Pump initial data.  
o) Inspect for leaks from the SCV and mounting area.

### 5. Claim Information:

- a) Time Allowance: 1.0h / Unit  
b) Warranty code: 0618940  
c) Operation code: 061299  
d) Original parts No: 2005-2007 J05D - S22731100A / J08E - S227311060A  
2008-2009 J05D - S22731120A / J08E - S227311080A