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**SERVICE BULLETIN**

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Classification:

AT04-014

Reference:

NTB05-001

Date:

January 3, 2005

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**4 SPEED AUTOMATIC TRANSMISSION HARSH 1-2 SHIFT  
AND/OR DTC P0745 STORED**

**APPLIED VEHICLES:** 2003 – 2005 Altima (L31)  
2003 – 2005 Sentra  
2003 – 2004 Maxima (A33 and A34)  
2004 Quest (V42)

**APPLIED DATES:** Vehicles built between:  
December 1, 2002 and August 27, 2004

**APPLIED TRANSMISSIONS:** 4 speed A/T: RE4F04B and RE4F03B

**IF YOU CONFIRM:**

The transmission fluid is full (correct level) and in good condition (not burnt), and

- There is a harsh shift from 1<sup>st</sup> to 2<sup>nd</sup> gear,  
**and/or**
- DTC P0745 (line pressure solenoid circuit) is stored,

**ACTIONS:**

1. Drain and remove the transmission oil pan.
2. Push/pull the ground terminal and wire for the solenoid valve assembly (see Service Procedure step 4).
  - If it doesn't come off, solder the terminal.
  - If it does come off, replace the solenoid assembly.
3. After soldering, recheck the ground terminal and wire (see Service Procedure step 8).
  - If it's tight, repair is complete.
  - If it's loose, replace the solenoid assembly.

**IMPORTANT:** The purpose of "ACTIONS" (above) is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire Service Procedure (starting on page 3) as it contains information that is essential to successfully completing this repair.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

**PARTS INFORMATION**

DESCRIPTION	MODEL	PART NUMBER	QUANTITY
Gasket-Oil Pan (RE4F04B)	Maxima	31397-80X01	1
	Altima		
	Quest		
	Sentra w/QR25 engine		
Gasket-Oil Pan (RE4F03B)	Sentra w/QG18 engine	31397-31X02	
Bolt-Oil Pan	All	31377-32X02	21
Solenoid Valve Assembly	All	Reference the FAST Parts Catalog and use the applicable P/N	If needed
ATF (Nissan Matic D)*	All	999MP-AA100P	approx. 4 qts.
Nissan Trans Cooler Flush *		999MP-AM006P	If needed.

\* Available from the Nissan Direct Ship Chemical Care Product Program:  
 Phone 1-800-811-0502, Fax 1-770-218-0148, Website order link via dealer portal  
[www.NNAnet.com](http://www.NNAnet.com) or direct [www.NissanChemicals.com](http://www.NissanChemicals.com)

**CLAIMS INFORMATION**

**Submit a Primary Failed Part (PP) line claim using the following claims coding:**

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Repair <u>and/or</u> RPL Line Pressure Solenoid Ground Terminal	(1)	JC60AA	BE	42	(2)

- (1) Reference the FAST Parts Catalog and use the applicable Solenoid Valve Assembly P/N as the PFP.
- (2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

## SERVICE PROCEDURE

1. Drain and remove the transmission oil pan.
  - Refer to the AT section in the appropriate Service Manual (ESM) for oil pan removal instructions.

2. Locate the ground terminal for the line pressure solenoid.



Figure 1

3. Remove the bolt and small bracket holding the ground terminal.

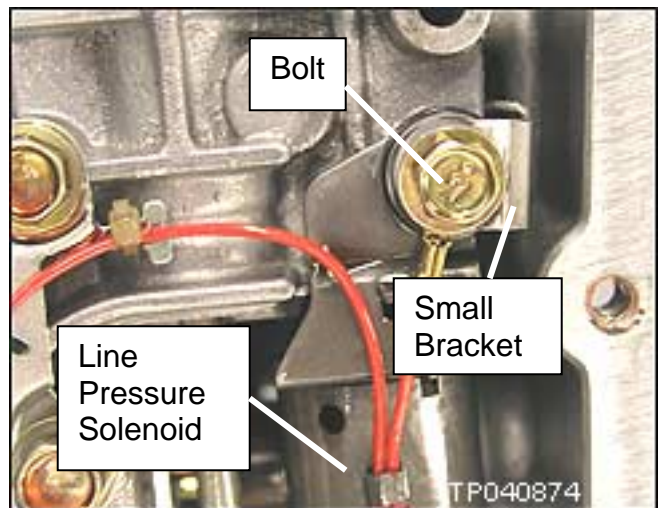


Figure 2

**IMPORTANT:** Make sure the metal washer that sits on the rubber grommet doesn't fall off.

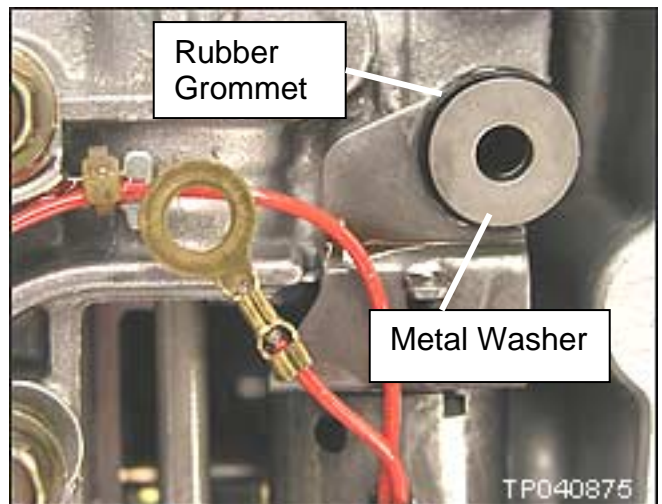


Figure 3

4. Make sure the ground terminal will not pull **completely** off of the wire.
- Use moderate force to pull / push the wire in and out of the terminal (no more than 5 lbs of pull force).
- a. If the terminal pulls completely off the wire with 5 lbs of pull force, replace the solenoid valve assembly (see Parts Information).
- Refer to the AT section of the appropriate Service Manual (ESM) for solenoid replacement.
  - Skip to step 11.

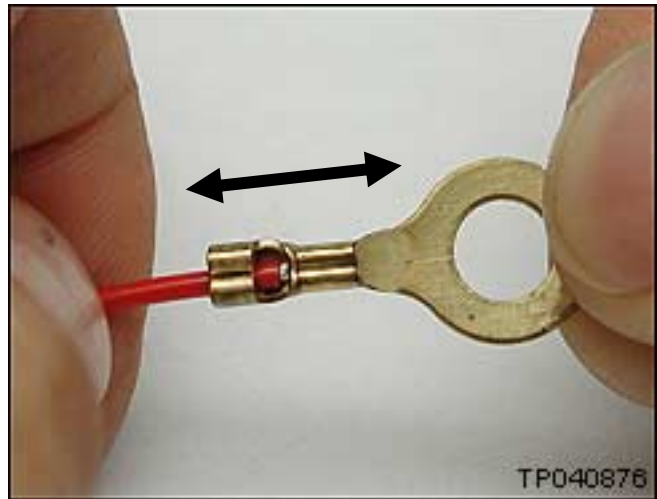


Figure 4

- b. If the terminal does not pull completely off of the wire, go to step 5 and continue with this procedure.

5. Check the wire support crimp shown in Figure 5.

- If the support crimp is up as shown in Figure 5a, push it down as shown in Figure 5b.

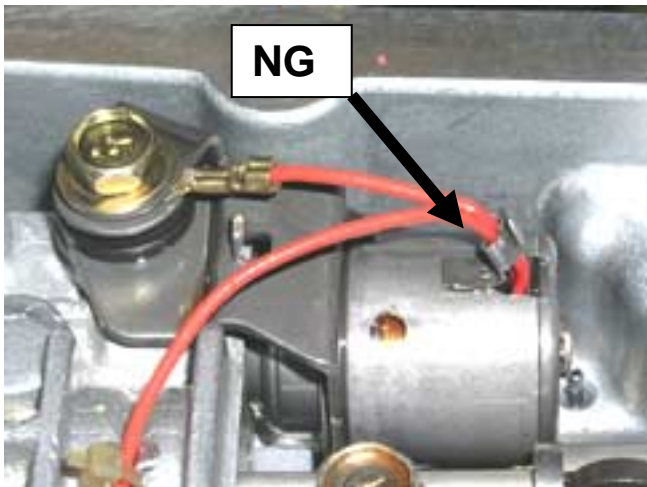


Figure 5a

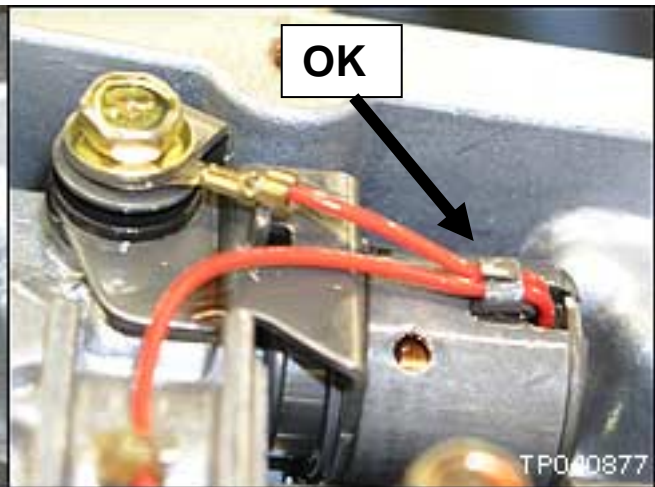


Figure 5b

6. Completely wash the ground terminal with Electrical Contact Cleaner and blow it dry.

**IMPORTANT:** If the ATF is not completely cleaned off of the terminal, the solder will not stick correctly.

**NOTE:**

- Use a local source for electrical contact cleaner.
- Nissan Trans Cooler Flush (999MP-AM006P) may also be used to clean the terminal (see Parts Information).

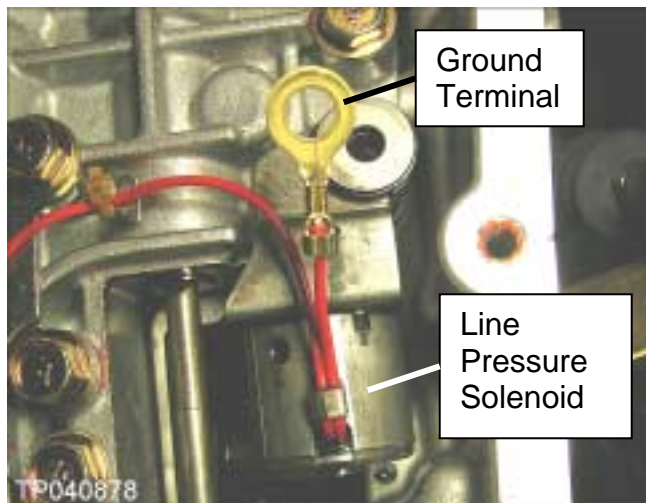


Figure 6

**IMPORTANT:** You must solder the terminal. Do Not attempt to tighten the terminal crimp by squeezing it with a crimp tool or pliers.

7. Apply heat and solder to the terminal as shown in Figure 3.

- Apply solder to end of the crimp on the exposed wire strands.
- Use high quality thin rosin-core solder, such as Radio Shack item # 064-005E\*\* or equivalent.

\*\* 0.032" dia., 2.5 oz, 60/40 (Lead/Tin), rosin-core solder.

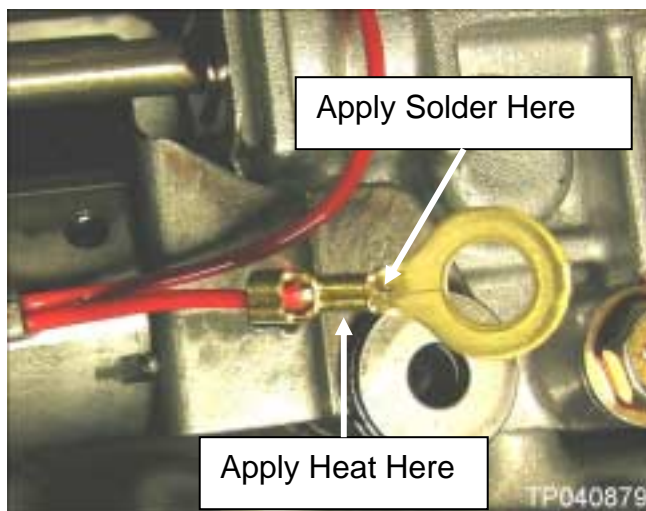


Figure 7

**IMPORTANT:**

- Clean/brush off any loose pieces of solder.
- Use the OK / NG photos (on the next page) as a guide to make sure the solder is applied correctly.

**NG:**

This is a “cold” solder. The solder did not flow into the crimp and between the wire strands.



Figure 8

**NG:**

The solder flowed too far from the crimp and onto the terminal.

When the terminal is reinstalled the solder will be under the bolt washer and the washer will not seat flat.



Figure 9

**OK:**

The solder flowed into the crimp and between each of the wire strands.

The solder is not too far out on the terminal.



Figure 10

8. After you have completed the soldering, make sure the wire is tight in the terminal.
  - a. Use moderate force to pull / push the wire in and out of the terminal (no more than 5 lbs of pull force).
    - The wire should not move.
  - b. If the wire moves (is loose), replace the solenoid valve assembly (see Parts Information).

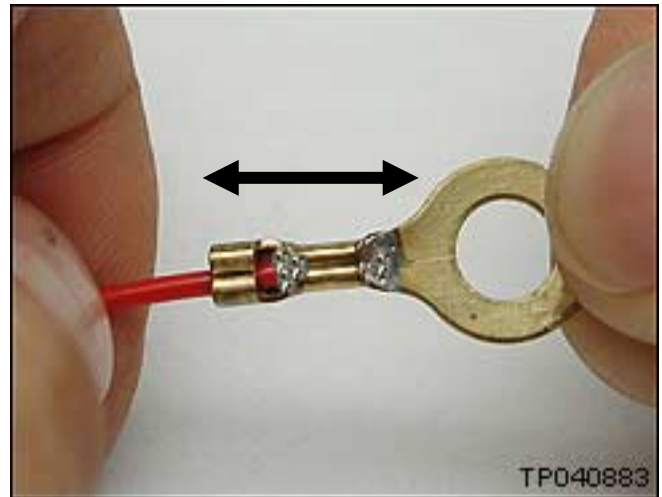


Figure 11

9. Make sure the metal washer is in place on the rubber grommet.

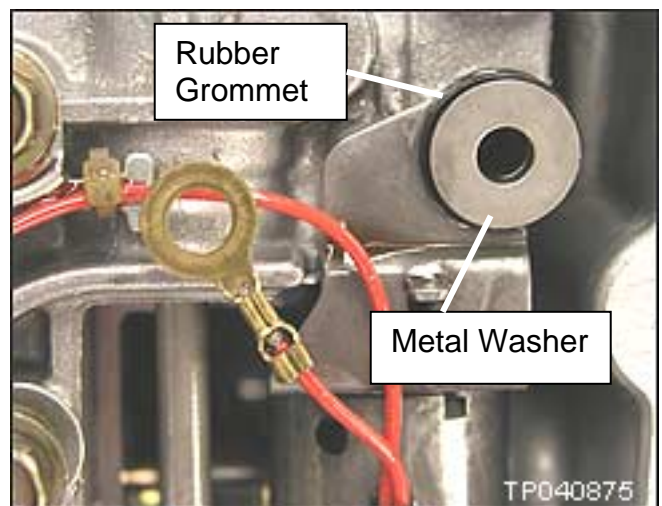


Figure 12

10. Reinstall the bolt and small bracket that holds the ground terminal.
  - Tighten to 6.9 – 8.8 N.m (0.7 – 0.9 Kg-m, 61 – 78 in-lb)

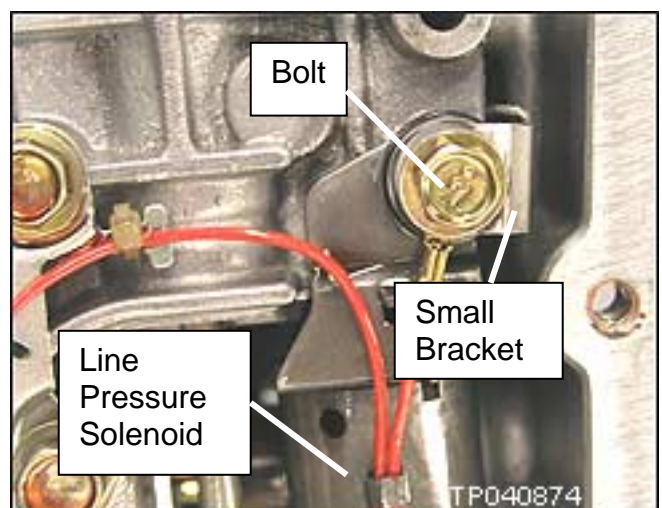


Figure 2

11. Reinstall all other parts removed as per the appropriate Service Manual (ESM).

- Make sure to use new oil pan bolts (listed in the Parts Information).
- **DO NOT** re-use the old oil pan bolts.

12. Using CONSULT-II, erase all DTC's.

13. Test-drive to confirm the incident is fixed.

