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# SERVICE BULLETIN

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Classification: AT10-006	Reference: NTB11-011	Date: February 18, 2011
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## 2009 - 2011 GT-R MIL "ON" WITH DTC P0729/P2832 STORED

**APPLIED VEHICLE:** 2009 – 2011 GT-R (R35)

### IF YOU CONFIRM

For 2009 - The MIL is on and DTC P0729 (6GR Incorrect Ratio) is stored,

For 2010 - The MIL is on and DTC P0729 (Sleeve A1 Function) is stored,

For 2011 - The MIL is on and DTC P2832 (Shift Fork A) is stored,

### ACTION

Install Metal Caps on 3 of the shift pistons in the transmission Actuator Control Module (ACM).

- Metal Caps are listed in the Parts Information.
- Refer to the Service Procedure for Metal Cap installation.

**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 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	P/N	QUANTITY
Metal Cap (1)	32886 – KB50A	3
O-ring Seal (1)	31526 - JF02A	1
O-ring Seal (1)	31526 - JF03A	1
O-ring Seal (1)	31526 - JF04A	1
Fill Plug Washer	11026 - 4N200	1
Drain Plug	31377 - JF00E	1
Transmission Oil Pan Gasket	31397 - JF00A	1
Transmission oil (2)	999MP - GTRT00P	9 qt

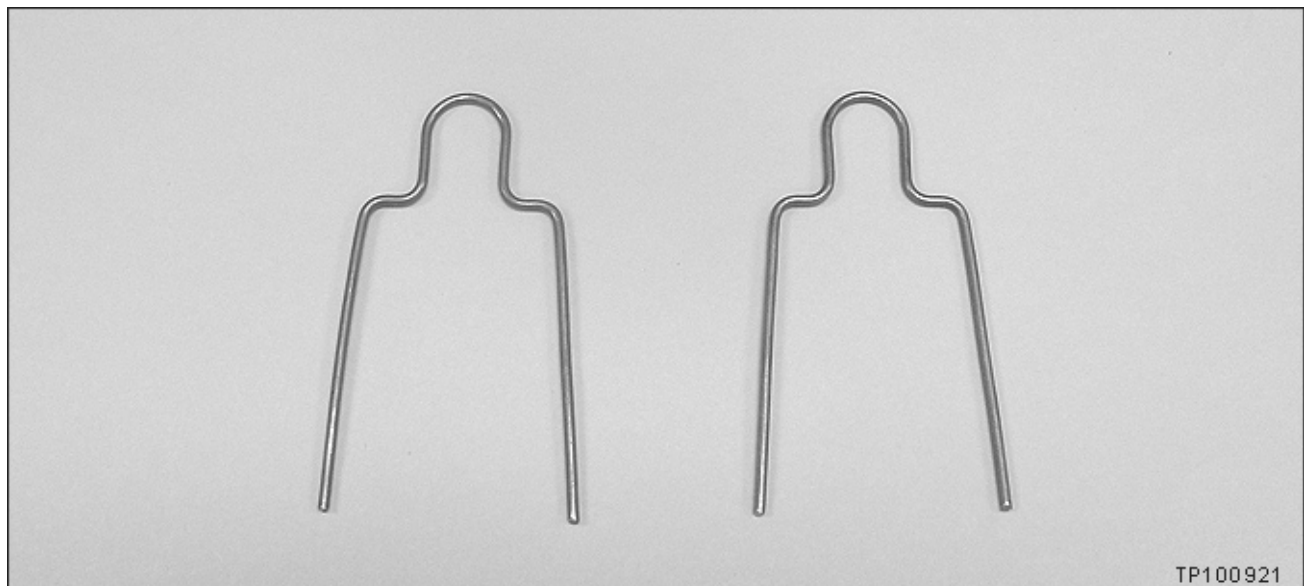
- (1) The Metal cap and O-ring seals were added to the GT-R restricted parts list. Nissan Parts and Service Bulletin titled “2010 Nissan GT-R Unique Service Requirements” explains the restricted parts of the GT-R and how these parts can be ordered.
- (2) Order this item through the Nissan Maintenance Advantage program: Phone: 877-NIS-NMA1 (877-647-6621), Fax 216.881.7923, Website order via link on dealer portal [www.NNAnet.com](http://www.NNAnet.com) and click on “Tire Advantage” link or order direct at [www.nissantire.com](http://www.nissantire.com).

**CLAIMS INFORMATION**

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Install ACM Piston Covers (Metal Caps)	320A0-JF00A	JX13AA	HD	32	1.7 hrs.

**REQUIRED SPECIAL TOOL (J-50392 – ACM Holding Pins)**



TP100921

## SERVICE PROCEDURE

### CAUTION:

- Do not use fabric gloves or cloth rags that will shed lint or fibers while working with internal transmission components.
- Be careful not to introduce any contaminants into the transmission.
- To prevent burns, make sure the transmission and transmission oil temperature is below 40°C (104°F) before beginning work.

1. Remove the front diffuser (cover under the transmission).

- If needed, refer to section EXT in the Service Manual.

2. Drain the transmission oil.

- If needed, refer to section TM in the Service Manual.

3. Remove the transmission oil pan.

- If needed, refer to section TM in the Service Manual.

4. Remove the transmission suction filter.

- a. Hold the filter with both hands as shown.
- b. Carefully move the filter back and forth while pulling down.

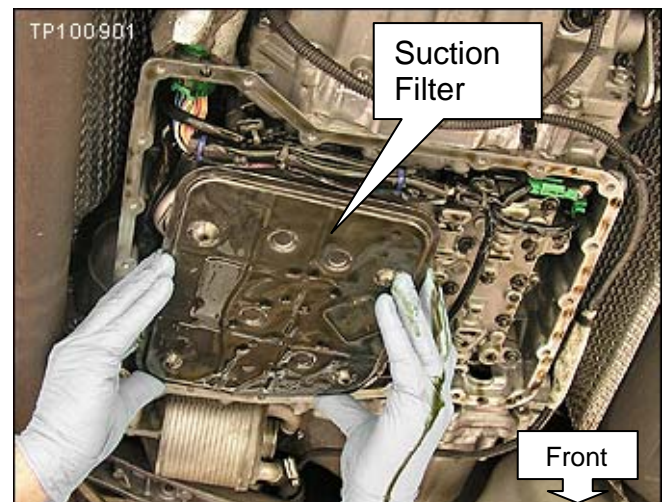


Figure 1

5. Disconnect the 2 harness connectors shown in Figure 2.

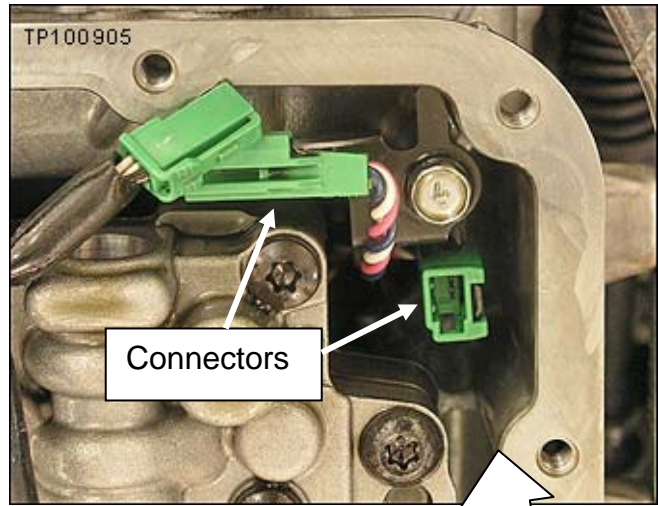


Figure 2

6. Disconnect the main harness connector shown in Figure 3.

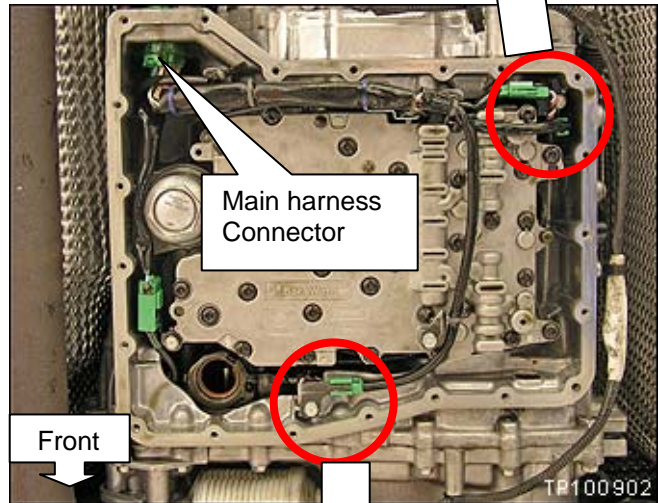


Figure 3

7. Disconnect the harness connector shown in Figure 4.

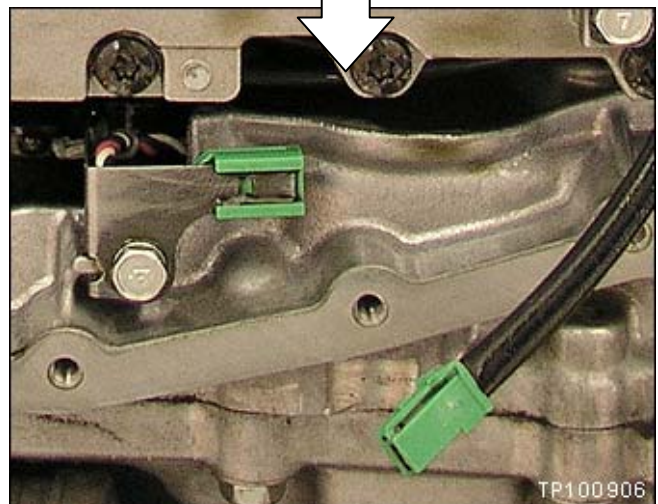


Figure 4

8. Remove the bracket bolt shown in Figure 5.

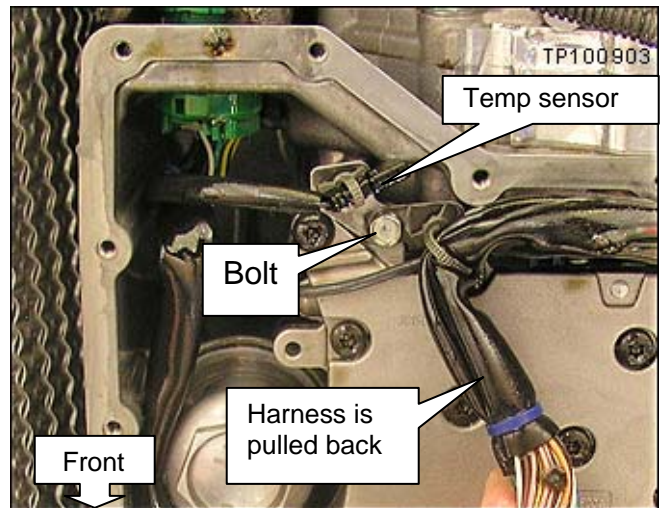


Figure 5

9. Take the temperature sensor loose from the metal bracket.

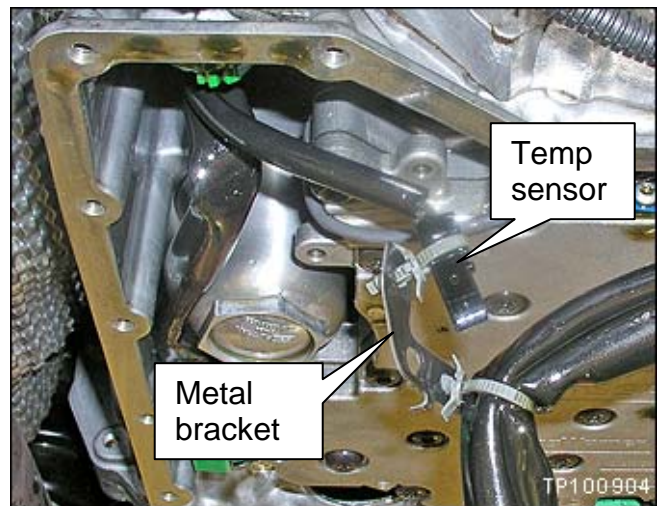


Figure 6

10. Remove the bracket bolt shown in Figure 7.

11. Disconnect the electrical connector shown in Figure 7.

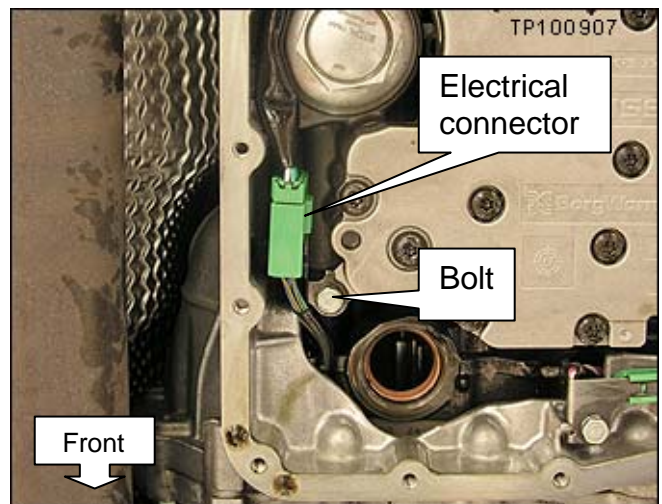


Figure 7

12. Install holding pins (special tool J-50392) into the holes shown in Figure 8.

**NOTE:** These retaining pins will prevent rotation of the ACM shift pistons.

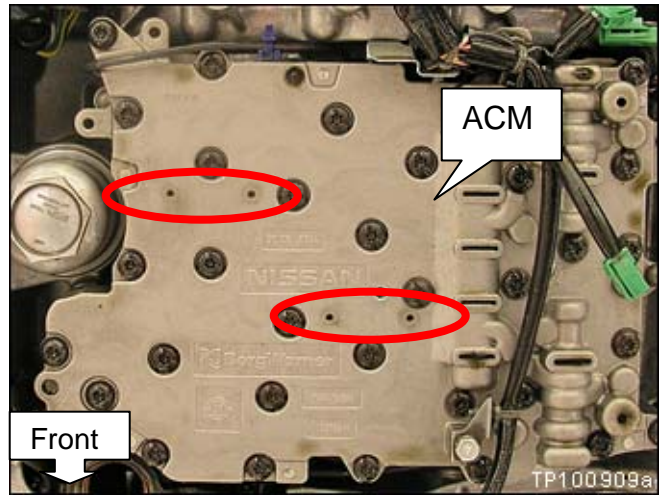


Figure 8

- Make sure the holding pins are very close (almost touching) the ACM.
- It may require some “wiggling” of the holding pins, while gently pushing them in, to get them lined up correctly and go all the way in.

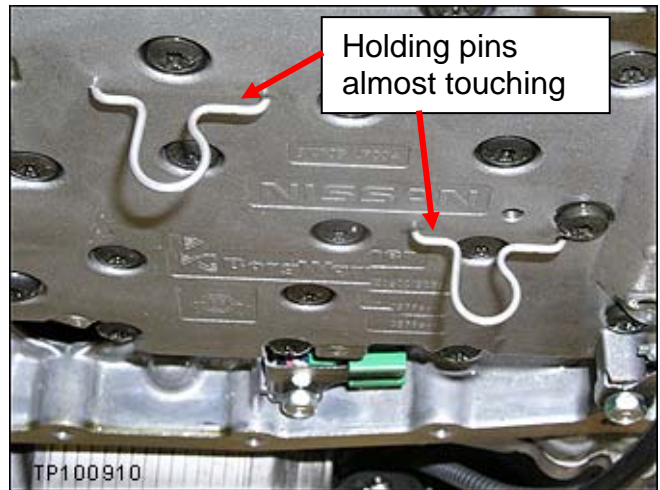


Figure 9

- If there is a gap between the holding pin and the ACM, the holding pin is not in all the way.

**NOTE:** If you are unable to get the holding pins all the way in, continue with the procedure. Once the ACM is removed, use the holding pin installation procedure at the end of the bulletin.

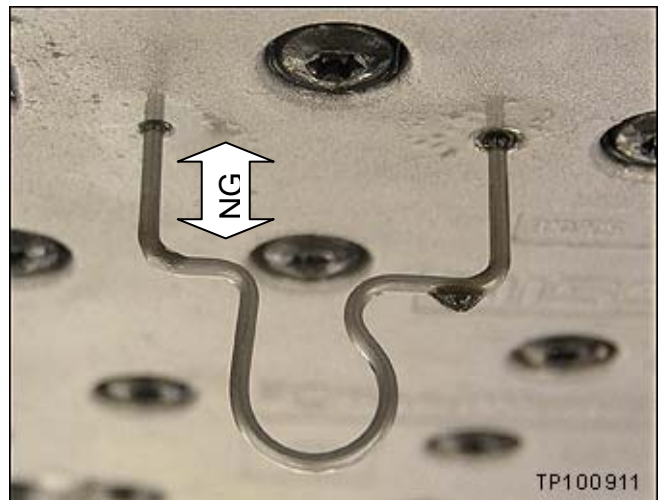


Figure 10

### 13. Remove the ACM from the transmission.

- Remove only the 5 bolts (T30 Torx®) circled in Figure 11.

#### CAUTION:

- **Remove only the bolts circled in Figure 11.** Removal or loosening of any other ACM bolts will make the ACM unusable.
- Do Not use power tools.
- Do Not use fabric gloves.
- Use only lint free rags.
- The ACM is heavy (5 kg / 11 lb), make sure to properly hold it (support it) while removing the bolts.

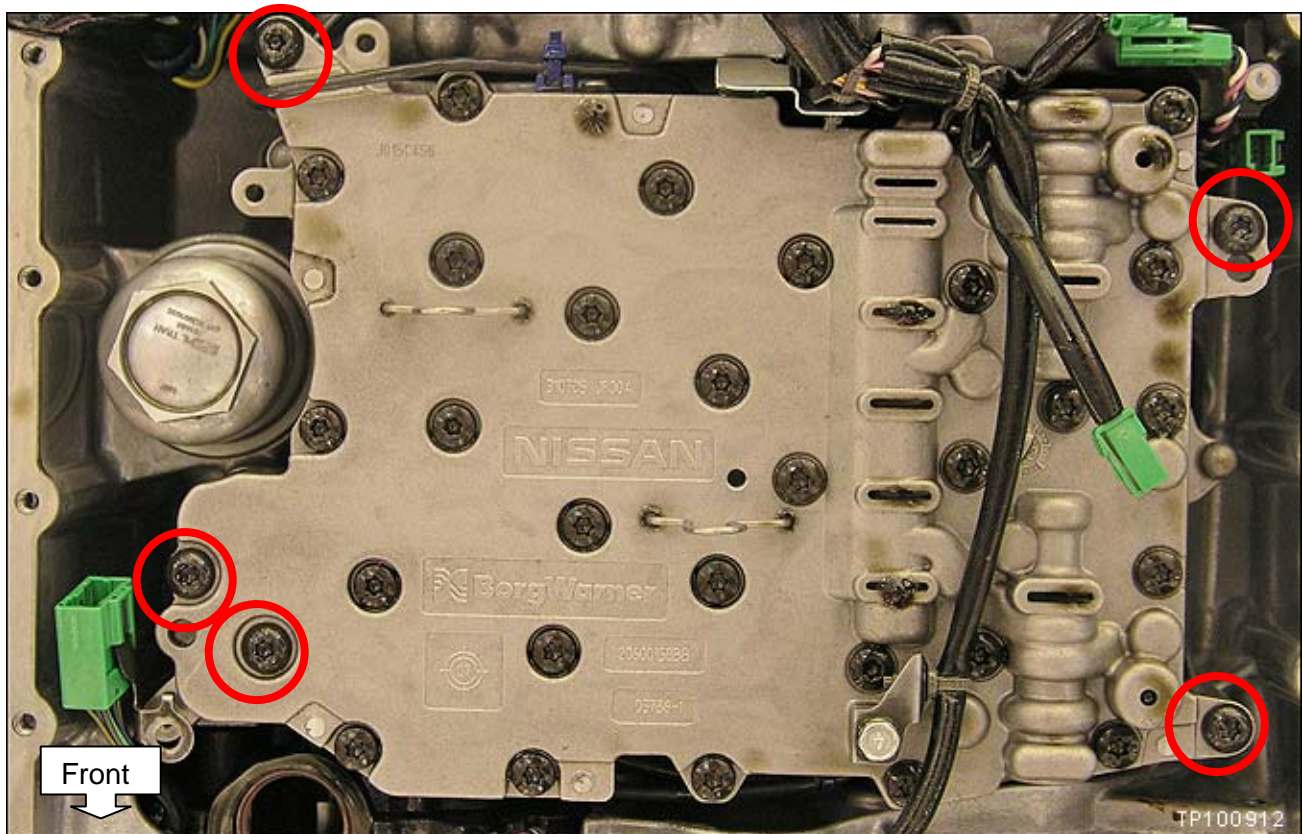


Figure 11

14. Set the ACM in a clean working area.

**CAUTION:**

- Do Not use fabric gloves.
- Use only lint free rags.
- **Do NOT clean debris off of the pistons.**

Any wiping or cleaning of the pistons will scratch the piston coating. Do not wipe, touch, or in anyway clean the debris off of the pistons.

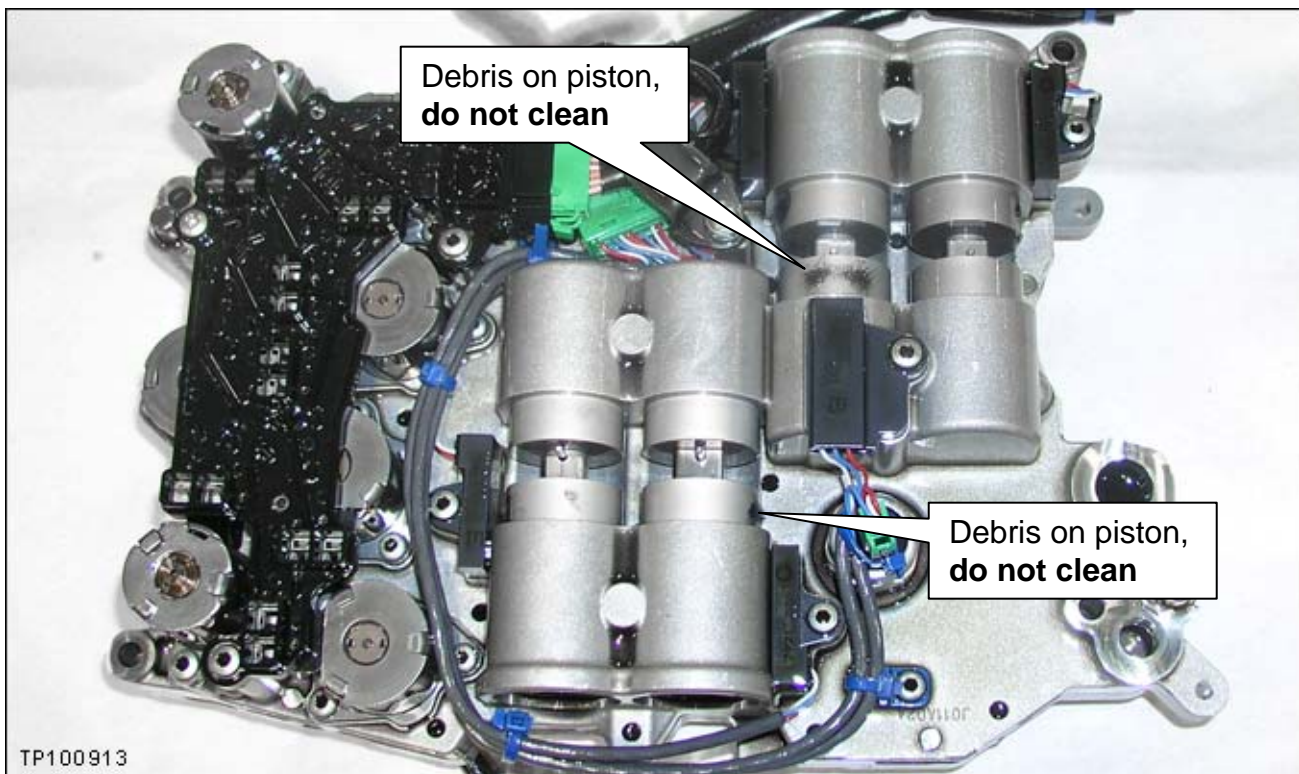


Figure 12

**NOTE:** If you were unable to install holding pins (special tool J-50392) into the ACM before removal:

- Go to “Installing Holding Pins (special tool J-50392)” on page 12.
- After the holding pins are installed, return here and continue with the procedure.



15. Install a Metal Cap onto 3 of the ACM shift pistons.

- Make sure the notch is aligned with the retaining pins.

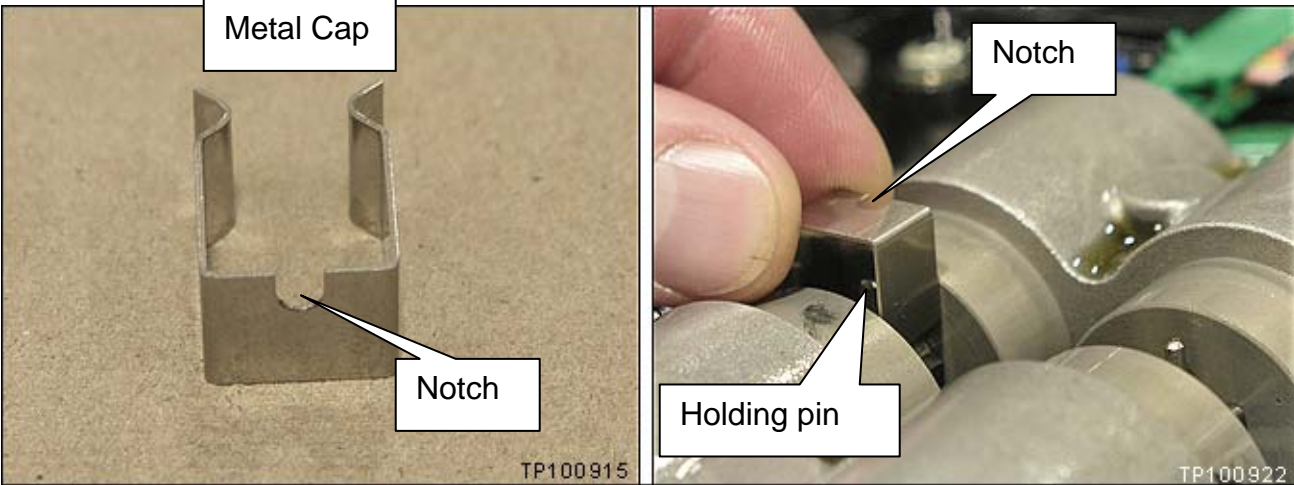


Figure 13

- Install Metal Caps on the 3 pistons shown in Figure 14.

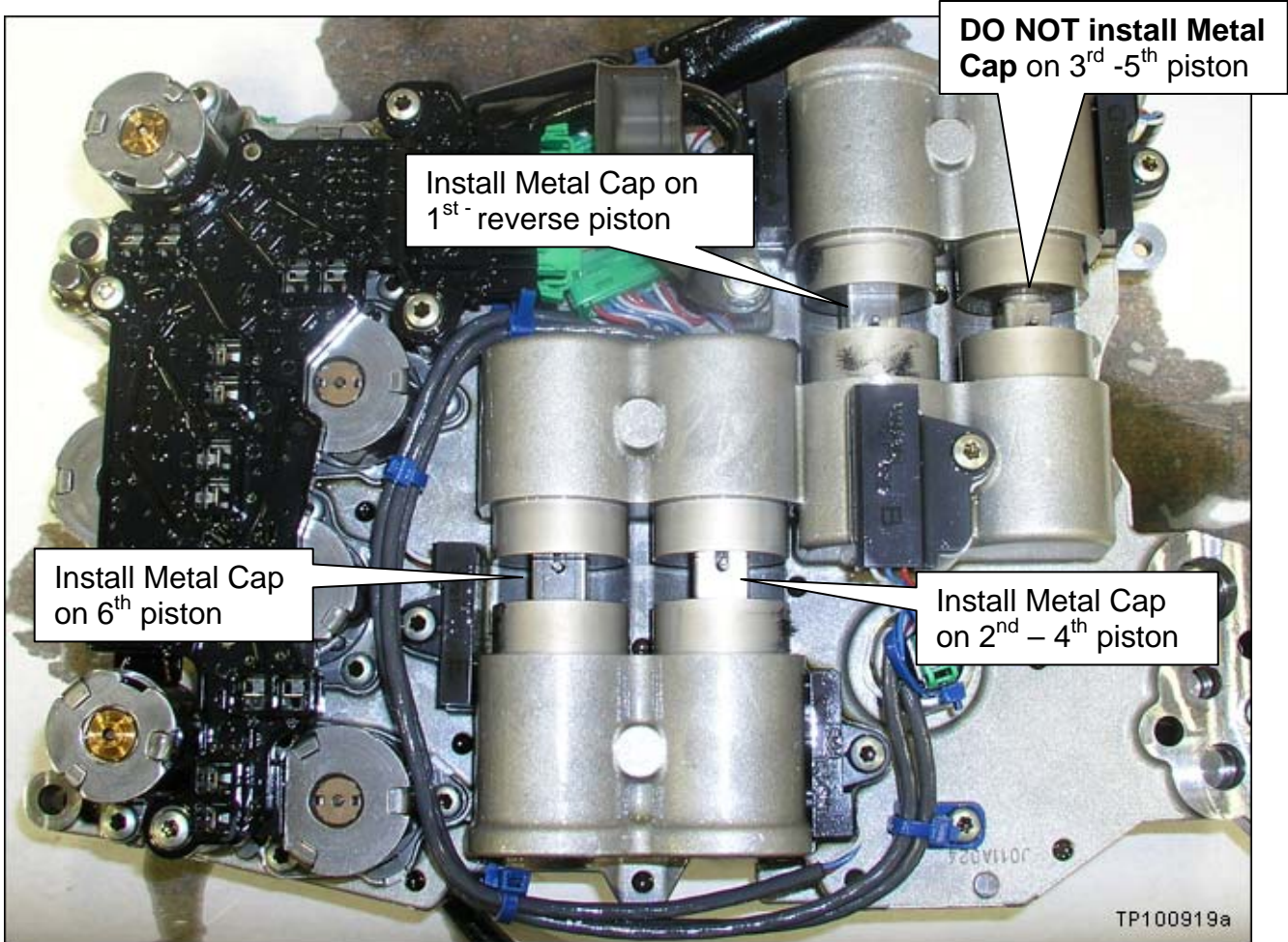


Figure 14

16. Remove old o-ring seals and install new o-ring seals on the transmission ports shown in Figure 15.

- If needed, use petroleum jelly to hold the seals in place for installation of the ACM.

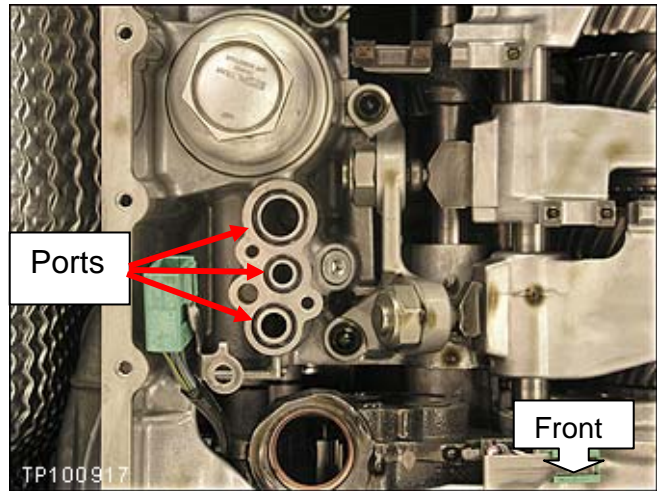


Figure 15

17. Reinstall the ACM into the transmission.

- Be careful not to damage harnesses or connectors.
- Tighten the bolts in the order shown in Figure 16.
- Bolt torque: 9.0 - 11.0 N•m (0.9 - 1.1 kg-m, **79 - 97 in-lb**)

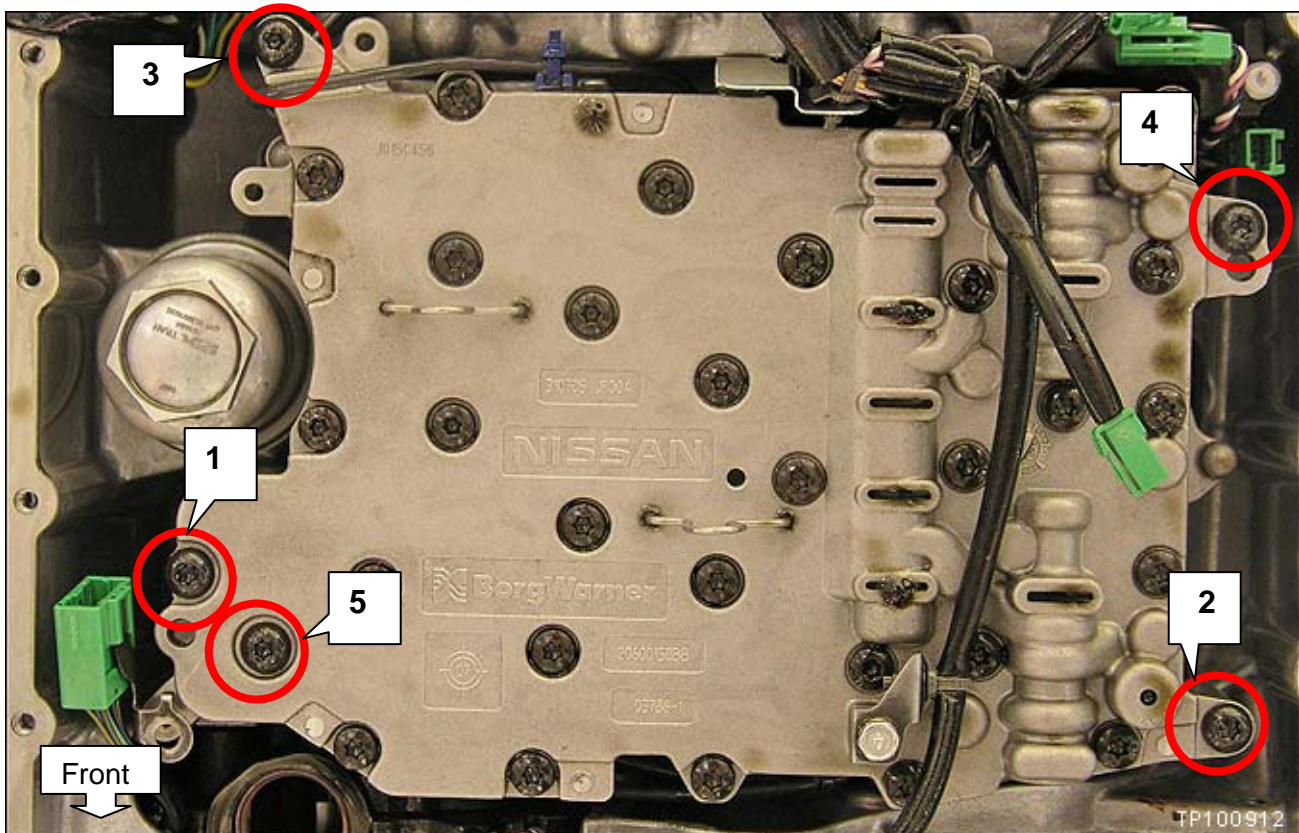


Figure 16

18. Remove the holding pins from the ACM.

19. Reconnect the harness connectors and install bracket bolts in reverse order.

- Bracket bolt torque: 9.5 N•m (0.97 kg-m, **84 in-lb**)

20. Reinstall the suction filter.

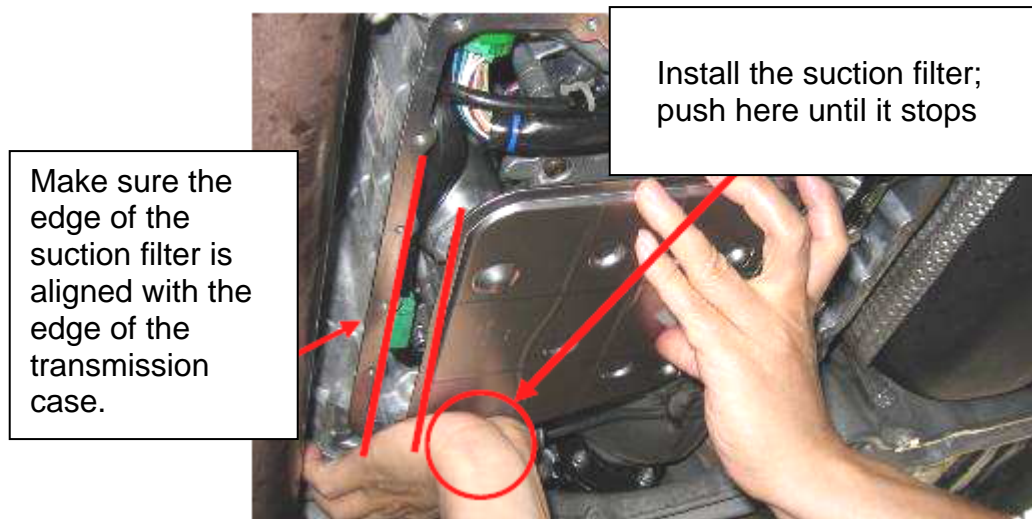


Figure 17

21. Reinstall the transmission oil pan.

- Use a new gasket.
- Bolt torque: 8.5 N•m (0.87 kg-m, **75 in-lb**).

22. Refill the transmission oil.

- If needed, refer to section TM in the Service Manual.

23. Use CONSULT-III to perform Clutch Learning before test driving.

24. Test drive the vehicle; make sure the transmission is operating correctly.

25. Make sure there is no transmission oil leaks.

26. Reinstall the front diffuser (cover under the transmission).

## Installing Holding Pins (Special Tool J-50392)

**NOTE:** This operation is required ONLY when the holding pins could not be completely installed before removal of the ACM from the transmission.

1. Locate the magnets inside the shift pistons.

**NOTE:** The shift pistons have magnets inside them that must be aligned with the sensors on the outside of the pistons (see Figure A).

The magnet location can be determined in two ways:

- Fine metal debris buildup at the magnet locations (see Figure A).
- Hold a pocket magnet next to the piston. The pocket magnet will be repelled (pushed away) when it is next to the magnet inside the shift piston.

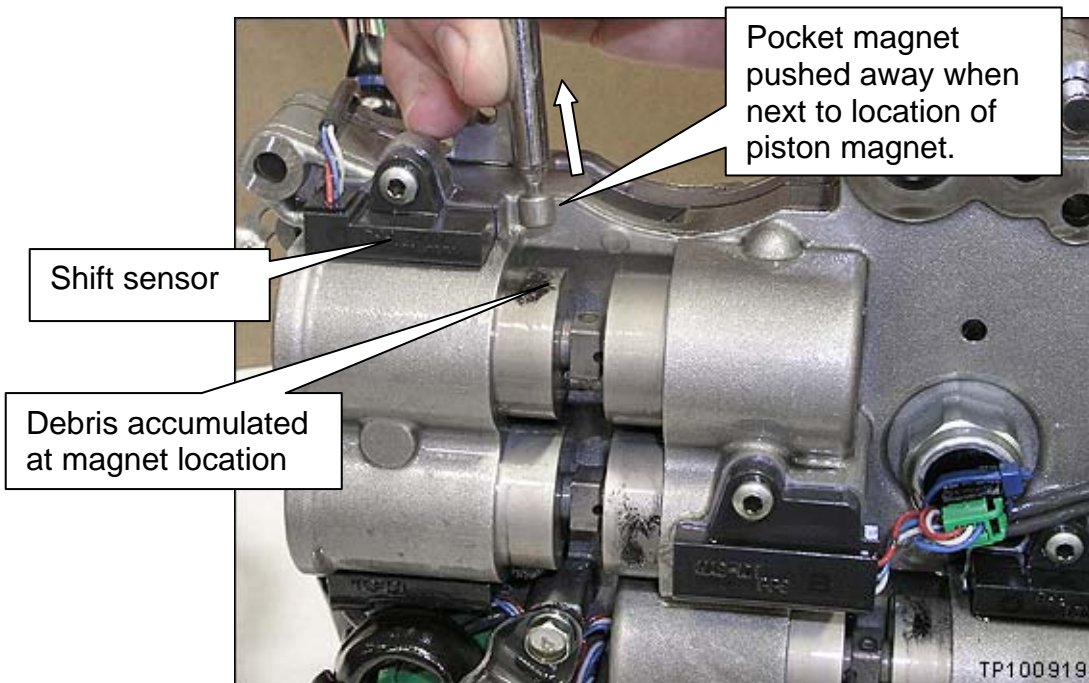


Figure A

**NOTE:** Do not wipe the shift pistons or in any way clean off the fine metal debris.

2. Rotate the shift pistons so the magnet locations line up with the shift sensors (see Figure A above and Figure C on the next page).

3. Hold the shift pistons in place while carefully inserting the holding pin into the valve body (see Figure B).
  - Carefully insert the holding pin.
  - Do Not hit the sides of the shift piston with the holding pin.

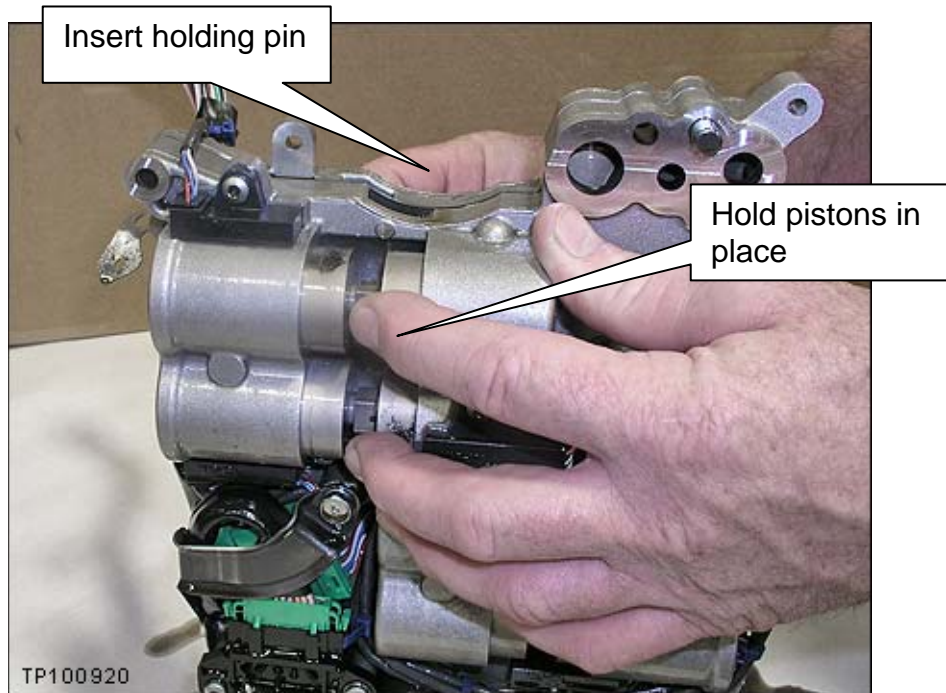


Figure B

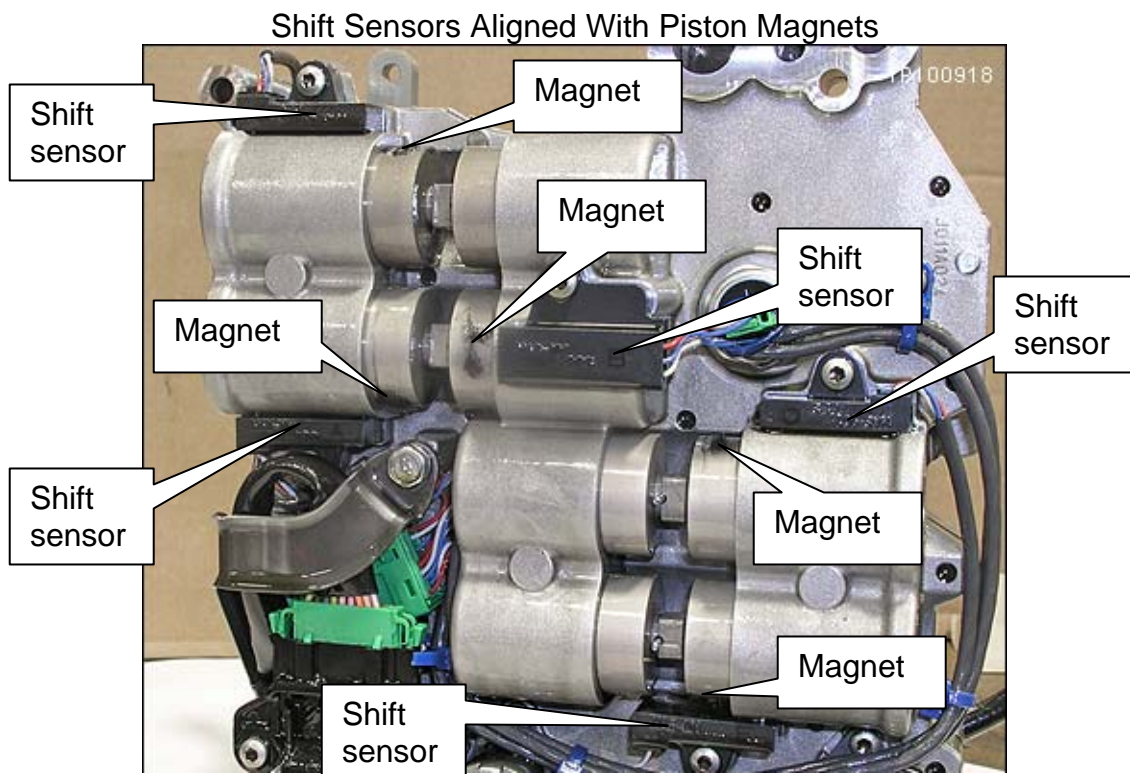


Figure C