SERVICE BULLETIN

Classification:	Reference:	Date:
EC12-026	NTB12-116	December 17, 2012

2009-2012 MAXIMA; MIL "ON" WITH DTC'S P0014, P0024

APPLIED VEHICLE: 2009-2012 Maxima (A35)

IF YOU CONFIRM

- MIL is on with DTC's P0014 and/or P0024.
- Customer describes a hesitation at speeds below 15 MPH after the oil was changed.

ACTION

- Replace left and right cylinder bank's "Exhaust Valve Control Magnet Retarder".
- See SERVICE PROCEDURE on page 2.

NOTE: Refer to the Electronic Service Manual (ESM) for the correct procedure to remove and reinstall the left and right "IVT covers" from Front Timing Chain Case.

PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY
Exhaust Valve Control Magnet Retarder Kit	23795-JK21A	2

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
REPL E-VTC CLUTCH – RIGHT SIDE	(1)	AX36AA	ZE	32	0.9

Or

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
REPL E-VTC CLUTCH – LEFT SIDE	(1)	AX37AA	ZE	32	0.4

Or

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
REPL E-VTC CLUTCH – BOTH SIDES	(1)	AX38AA	ZE	32	1.2

(1) Refer to the electronic parts catalog (FAST) and use the appropriate IVT Cover part number as the Primary Part (PFP).

IMPORTANT: The purpose of "ACTION" (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.

SERVICE PROCEDURE

1. Preparation for removing the Exhaust Valve Control Magnet Retarder.
   - Cut attached films provided in kit along the dotted lines (Figure1).

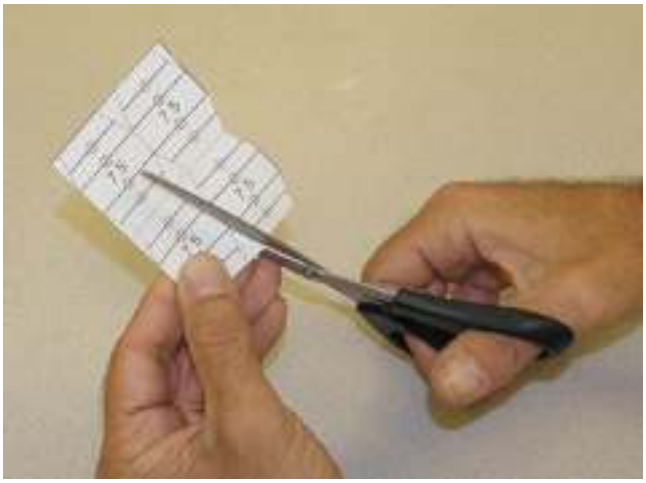

Figure 1

2. Per the procedures outlined in the ESM, remove the left and right IVT covers (Exhaust Valve Control Magnet Retarder covers).

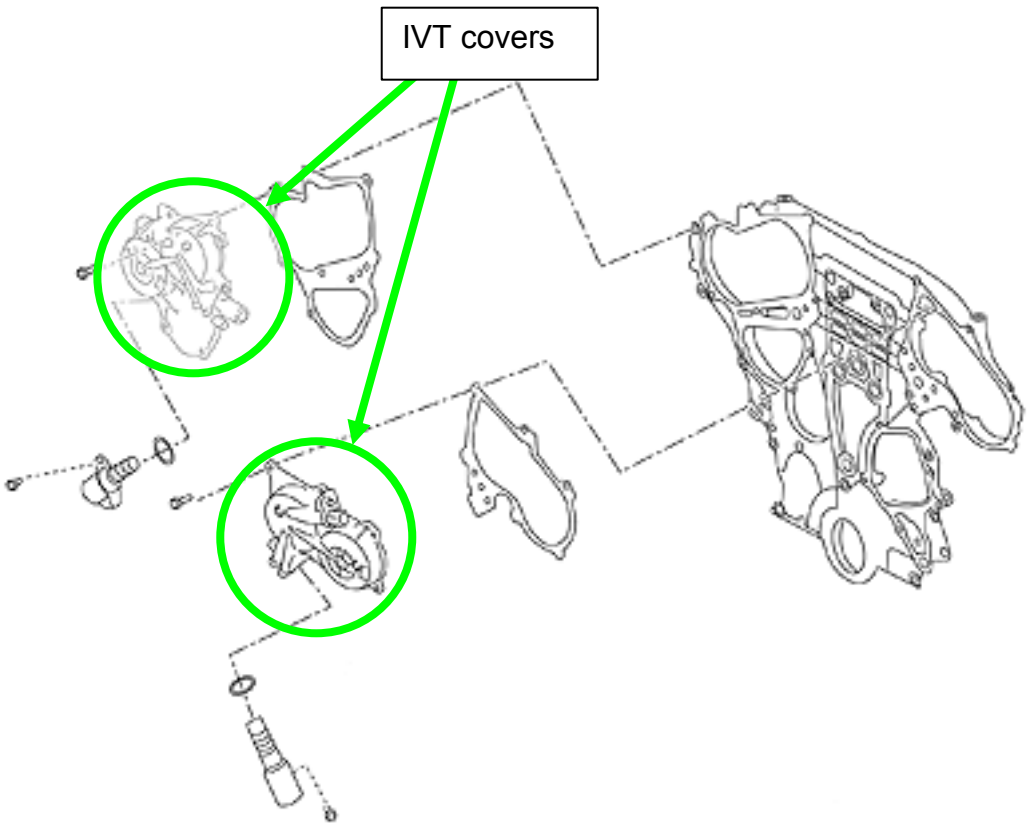

Figure 2

3. Lay the IVT covers on a flat surface with the retarder positioned to your right.

    - Right side shown for reference only.

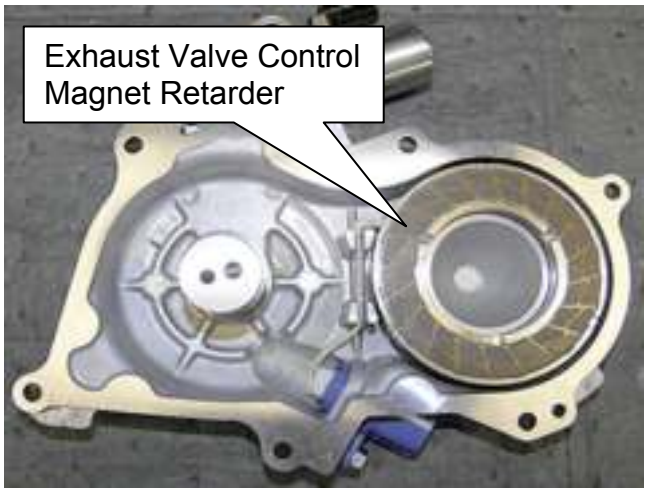

Figure 3

4. Disconnect the retarder harness from the external terminal and remove the wires and protective sheath from the securing posts.

Figure 4

Removal of Exhaust Valve Control Magnet Retarder

- The 4 films that were cut out in step 1 will be used to unlock the wire clips.

NOTE: Do not perform this procedure when the IVT covers are HOT.

6. Insert one of the films between the retarder and the spindle at the 12 o'clock position.

   a. The film should be inserted to Line "2" labeled on the film.

   b. If the film can only be inserted to Line "1", move the film around the spindle until the film can be inserted Line 2.

   c. Once the film can be inserted to Line 2, move the film left or right approx. 45°.

      - As the film forces the Spring Lock to recess, slight resistance will be felt.

   d. Repeat the process with the remaining 3 films so that 4 films are spaced at 90° intervals (see Figure 7).

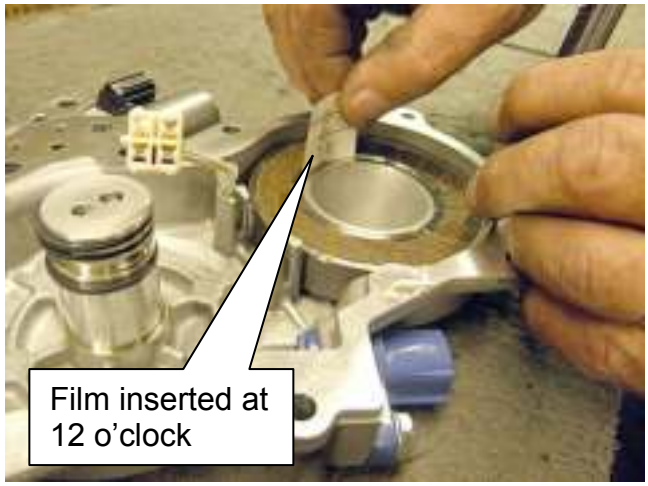

Figure 5

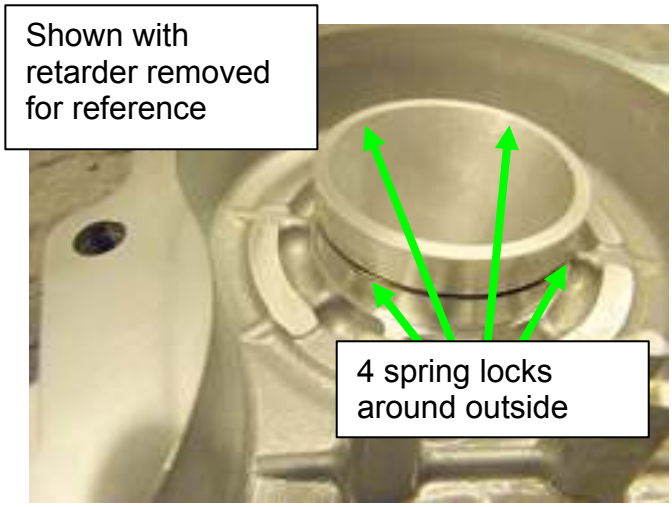

Figure 6

IMPORTANT:

- Two of the films will have to be inserted at the 6:00 position to begin. There is a Spring Lock positioned every 90 degrees around the spindle.
- Begin by using the .075mm film to remove the retarder. If the .075mm films are not thick enough to disengage the Spring Locks, the .100mm films will need to be used.
- A finesse stick may be used to manipulate the retarder to increase the clearance between the retarder and spindle to make it easier to insert all the 4 films.

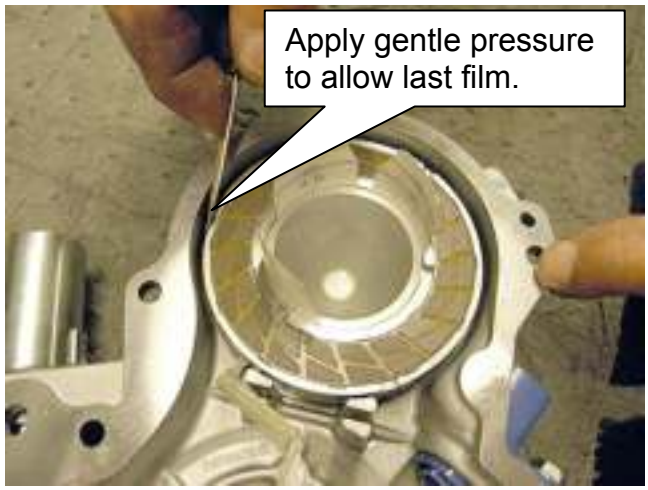

Figure 7

7. Remove the Exhaust Valve Control Magnet Retarder.

   a. Place the IVT cover on edge with the retarder at the top.

   b. Forcefully swing the IVT cover forward and allow the cover to bump against your other hand (Figure 8).

   c. The retarder should fall out of the IVT cover into your hand.

   NOTE: Do not touch the **black** IVT sprocket sealing rings.

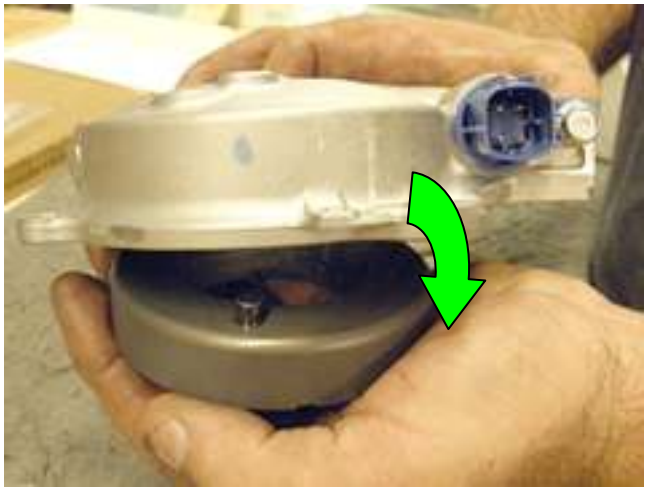

Figure 8

Install the new Exhaust Valve Control Magnet Retarder

8. Clean the ITV Cover if needed. Do not apply cleaner to the harness connector.

   - Confirm that there is no contamination on the replacement retarder.

9. Noting the position of the retarder dowels (2) on the rear of the retarder, and with the harness wires pointing in the general direction of the harness securing studs, place the magnet retarder over the spindle.

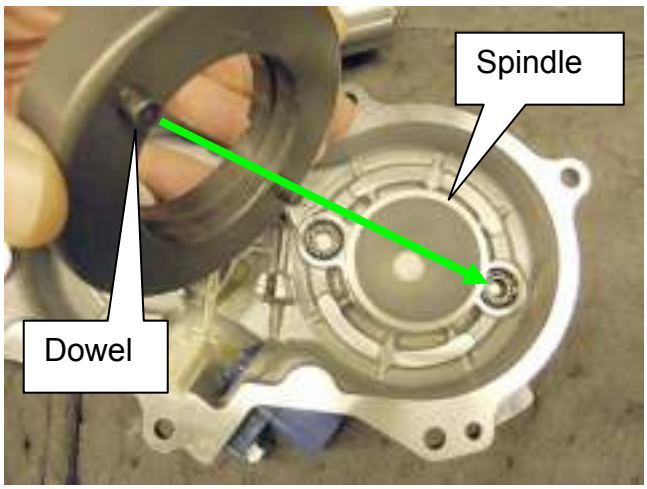

Figure 9

10. Gently twist the retarder in both directions until the retarder dowels seat in the O-ring seats.

    NOTE: Do not use downward force to try to seat the retarder. When the correct position is achieved, the retarder will fall into place with minimal downward force.

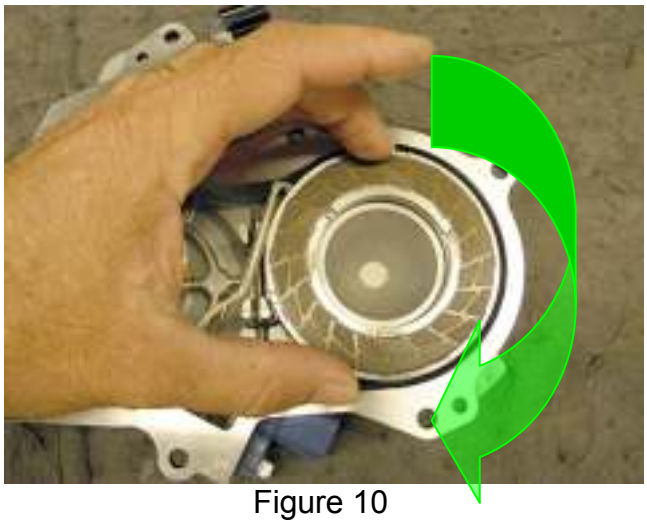

Figure 10

11. Place the new harness into the securing studs with the protective sheath being held into place by the studs.

12. Connect the harness to the external terminal.

    NOTE: The white wire of the harness should be on top.

13. Once connected, check the resistance of the circuit.
    - Resistance of the circuit should be 10 (+- 1) ohms.

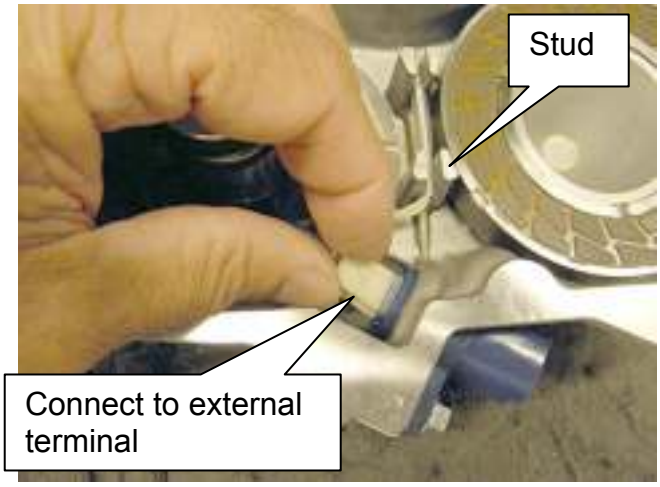

Figure 11

14. Re-install the IVT covers onto the vehicle.