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# SERVICE BULLETIN

**Technical Bulletin** 

AT13-014a

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November 5, 2013

Date:

# 2007-2012 ALTIMA; REDUCED PERFORMANCE DUE TO CVT FLUID TEMPERATURE PROTECTION LOGIC

This bulletin has been amended. Changes have been made throughout. Please discard previous versions of this bulletin.

**APPLIED VEHICLE:** 2007 – 2012 Altima Sedan (L32)

2008 – 2012 Altima Coupe (CL32)

**APPLIED ENGINE:** 4 Cylinder only

## IF YOU CONFIRM

The maximum vehicle speed is, or was, reduced by the CVT fail-safe logic after continuous operation under the following conditions:

- High RPM and/or high speed driving (RPM of 4000+ or speeds of 65 mph [104.6 km/h] for 1.0 – 1.5 hrs or more)
- Driving in ambient temperature of 96 degrees or higher
- Climbing steep or extended hills for 6 miles (9.6 km) or more
- Whine or rattle type noise occurring during reduced engine performance (vehicle speed decrease)

**NOTE:** Before applying this bulletin if the vehicle has any DTCs, they should be checked and repaired <u>first</u>.

## ACTION:

Install the SERVICE KIT-COOLER ASSY.

**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 the 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.

## SERVICE PROCEDURE

- 1. Place the vehicle on a lift and raise as needed to perform the following procedure.
- 2. Attach the COOLER ASSY-AUTO TRANS to the radiator support ahead of (in front of) the radiator/condenser:
  - a. Insert 3 bolts through the composite radiator support from the engine compartment side (see Figure 1 and Figure 2).
    - These holes are pre-existing.
    - Bolts are included in the Service Kit.
  - b. Install the COOLER ASSY-AUTO TRANS onto bolts.
  - c. Thread on the nuts and torque to 9.8 N<sup>·</sup>m (1.0 kg-m, **87 in-lb**).

**NOTE:** Figure 1 is a view of the front of the radiator/condenser, taken from the bottom looking up.

- 3. Route both of the new hoses through the radiator support toward the engine (see Figure 2).
  - New hoses are included in the Service Kit.
- 4. Slide 1 "CLP HOSE SPR PLATE" (spring clamp) onto each hose.
- 5. Attach both of the hoses to the COOLER ASSY-AUTO TRANS (see Figure 2).
  - See Figure 4 and Figure 5 on the next page for correct hose routing.
  - <u>Do not</u> release the CLP HOSE SPR PLATE(s) yet, until the hoses are attached at their other ends.



- 6. Remove the upper radiator to CVT fluid hose from both the radiator and the CVT.
  - Discard this hose and its CLP -HOSE SPR PLATES (spring clamps).
- 7. Clean the radiator and the CVT fittings with brake cleaner.

**NOTE:** Use genuine Nissan Brake Cleaner or equivalent.

8. Attach the new hose from the COOLER ASSY-AUTO TRANS to the upper radiator CVT fluid fitting.

Remove and discard upper CVT to Radiator fluid hose.



Figure 3



**NOTE**: Figures 4 and 5 show hose routing from the COOLER ASSY-AUTO TRANS (external CVT cooler) to the radiator and the CVT.

- 9. Attach the second COOLER ASSY-AUTO TRANS fluid hose to the CVT (see Figure 6).
- 10. Position / install all 4 of the CLP -HOSE SPR PLATES (spring clamps).
  - Position the CLP HOSE SPR PLATES as close to each fitting bulge as possible and then release them.

**NOTE:** Confirm that each CLP - HOSE SPR PLATE is not on top of the fitting bulge or on an angle.



- 11. Check the level of the CVT NS-2 Fluid and add as needed.
  - Refer to ESM for correct method to check fluid level for the model year vehicle that is being worked on.

#### PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY	
SERVICE KIT-COOLER ASSY	21606-ZX59A (2)	1	
NS-2 CVT Fluid	999MP-NS200P (1)	As needed	

(1) Order this item through the Nissan Maintenance Advantage program: Phone: 877-NIS-NMA1 (877-647-6621). Website order via link on dealer portal <u>www.NNAnet.com and</u> click on the "Maintenance Advantage" link.

#### (2) Items Contained in the SERVICE KIT-COOLER ASSY listed above

PART NAME	QTY PER KIT
COOLER ASSY-AUTO TRANS	1
HOSE-AUTO TRANS, UPR	1
HOSE-AUTO TRANS, LWR	1
CLP - HOSE SPR PLATE (spring clamp)	4
BOLT-HEX	3
NUT-HEX	3

#### **CLAIMS INFORMATION**

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Oil cooler kit installation	21606-ZX59A	JX15AA	AE	32	0.8