



SERVICE BULLETIN

Classification:

AT16-013

Reference:

NTB16-090

Date:

September 9, 2016

2011-2015 ROGUE AND ROGUE SELECT; REDUCED PERFORMANCE DUE TO CVT FLUID TEMPERATURE PROTECTION LOGIC

APPLIED VEHICLES: 2011-2013 Rogue (S35) 2WD/4WD **without tow package kit**
2014-2015 Rogue Select (S35) 2WD/4WD **without tow package kit**

IF YOU CONFIRM

The vehicle speed is, or was, reduced by the CVT fail-safe (reduced vehicle speed) 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, check for and repair any DTCs first.

ACTION

1. Perform self-diagnosis with CONSULT-III plus (C-III plus).
 - If DTCs are present, refer to the appropriate section of the Electronic Service Manual (ESM) and diagnose the DTCs first before proceeding to step 2 below.
2. Check the number of counts of "CVT-A" with C-III plus.
 - Refer to the **Flow Chart** on page 2 and the **SERVICE PROCEDURE** starting on page 3 to confirm if this bulletin applies.

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.

Flow Chart

Important

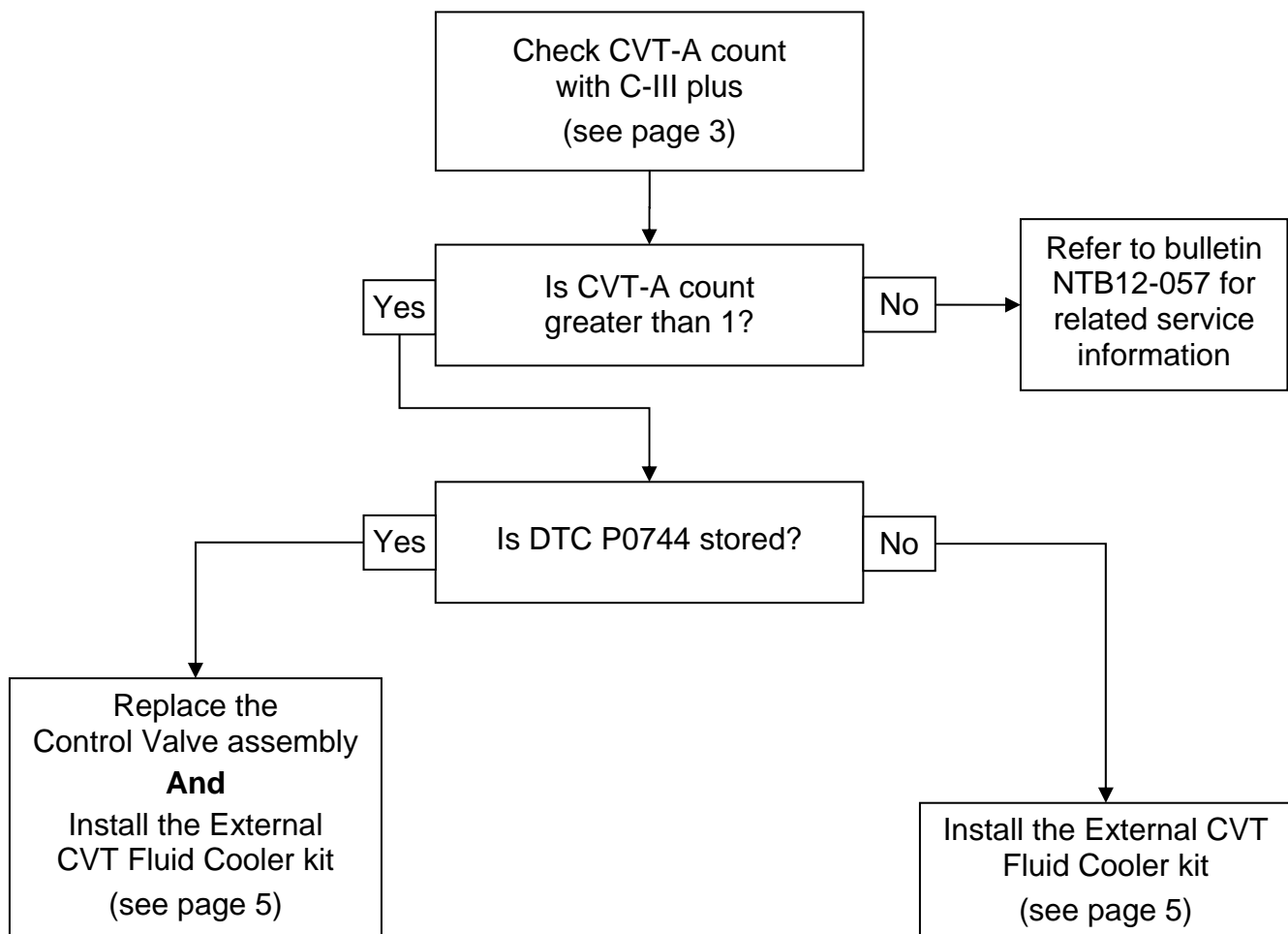
Before applying this bulletin:

- Confirm the CVT fluid has not been overfilled, and the CVT contains the proper CVT fluid.
- Confirm the coolant concentration is not greater than 50%.

Use of incorrect fluid, overfilling the CVT fluid, or coolant concentrations greater than 50% can cause the symptoms in the **IF YOU CONFIRM** section on page 1.

Refer to NTB12-057 to resolve these conditions first if they should occur.

NOTE: Refer to the ESM for the correct CVT fluid and coolant type for the model and year vehicle that is being worked on.



NOTE:

- If the CVT-A count is not greater than 1 and similar symptoms to those in **IF YOU CONFIRM** and/or a single DTC is present, refer to the ESM and NTB12-057 for further diagnosis.
- Refer to the ESM, section **TM – Transaxle & Transmission**, for Control Valve assembly removal and installation information.

SERVICE PROCEDURE

Check CVT-A Count with C-III plus

1. Open C-III plus and select **Diagnosis (All Systems)**.

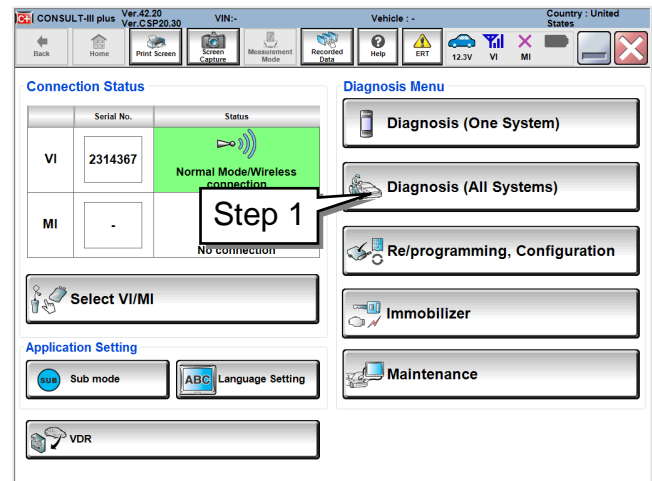


Figure 1

2. Select **TRANSMISSION**.

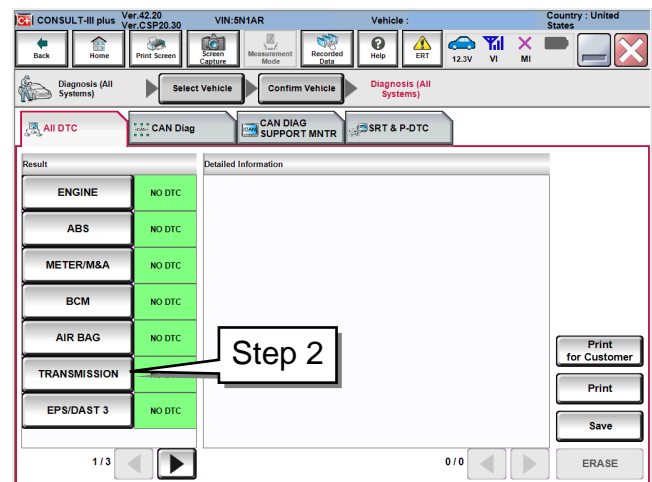


Figure 2

3. In **Data Monitor**, select **TRANSMISSION**, and then select **CVT-A**.

4. Select **START**.

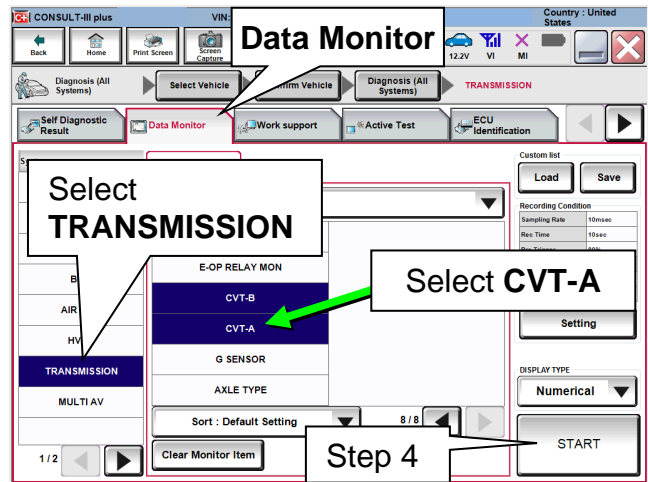


Figure 3

5. Check **CVT-A** count, and then refer to the **Flow Chart** on page 2.

NOTE: If CVT-A count is not greater than 1 **AND** similar symptoms to those in **IF YOU CONFIRM** and/or a DTC(s) is present, refer to the ESM and NTB12-057 for further diagnosis.

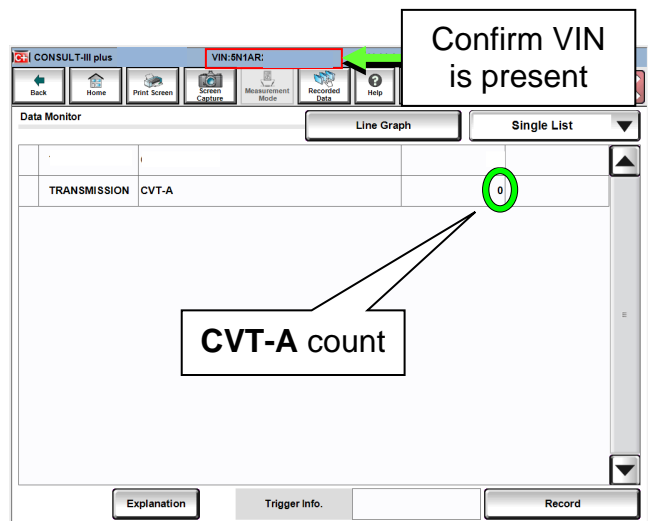


Figure 4

6. If it is confirmed this bulletin applies, install the SERVICE KIT-COOLER-ASSY listed in **PARTS INFORMATION**.

And

- If CVT-A count is greater than 1, replace the control valve assembly.
 - Refer to the **Installation Instructions** beginning on the next page to install the oil cooler.
- Refer to the ESM, section **TM – Transaxle & Transmission**, for Control Valve assembly removal and installation information.

Install Oil Cooler (CVT mounted heat exchanger with 4 ports)

1. Place the vehicle on a lift and raise as needed.
2. Remove the front Bumper Fascia Assembly, front Under Cover, left front Fender Protector and left Air Guide.
 - Refer to the appropriate section of the ESM for the removal procedures.

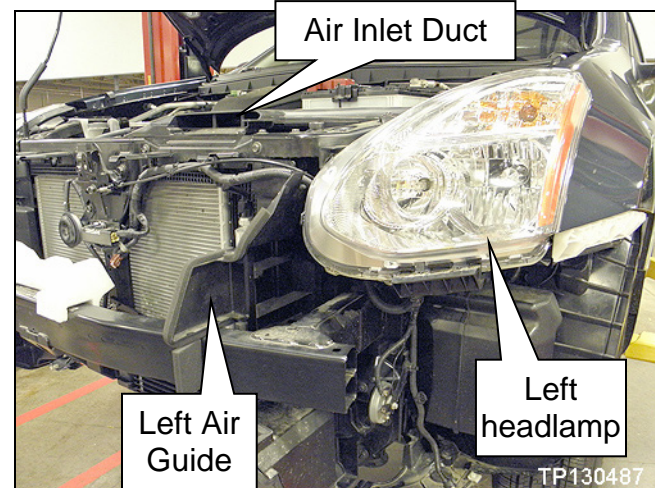


Figure 5

NOTE: The left Air Guide is connected to the radiator core support with a J-hook and must be lifted up before being pulled forward to remove.

3. Remove the Air Inlet Duct from the Air Cleaner Case.
4. Relieve any cooling system pressure.

WARNING: Never remove the radiator cap when the engine is hot. Serious burns may occur from high-pressure engine coolant escaping from the radiator.

- a. Wrap the radiator cap with a thick cloth.
 - b. Loosen the radiator cap slowly a quarter of a turn.
 - c. After any excess pressure has been released, fully loosen the radiator cap.
5. Clamp both coolant hoses attached to the CVT Fluid Cooler.
 - Clamping these hoses will help prevent coolant loss.

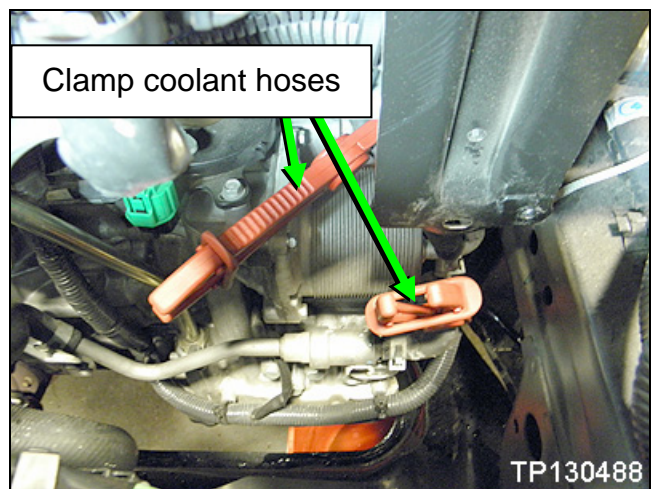


Figure 6

6. Remove “bolt A” and loosen “bolt B”.

- These bolts secure the Water Hose and Bracket (see Figure 7).

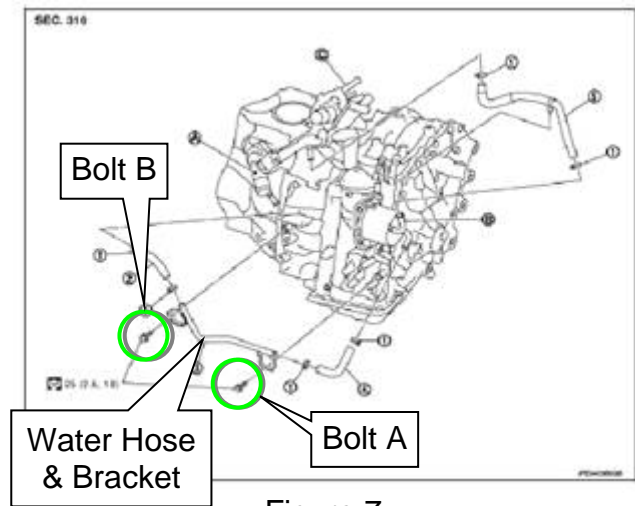


Figure 7

7. Remove both hoses from the CVT Fluid Cooler.

NOTE: Save these spring clamps. They will be reused.

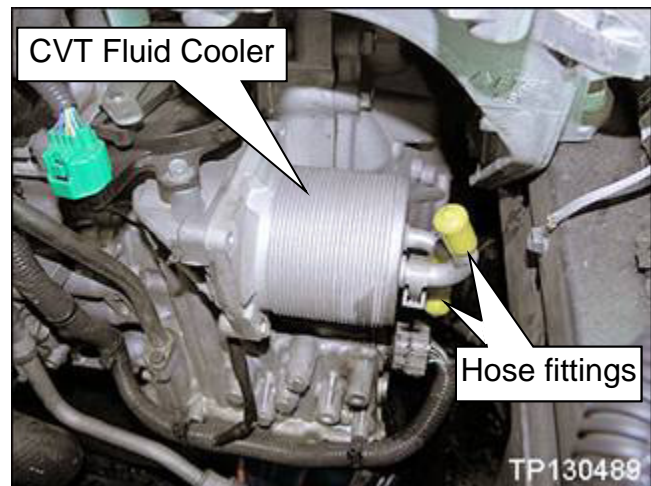


Figure 8

8. Remove the bolts, and then remove the CVT Fluid Cooler.

- Do not remove the filter (see Figure 9).

9. Clean any debris from the CVT Fluid Cooler mounting surface with brake cleaner and a lint free cloth.

NOTE: Use genuine Nissan Brake Cleaner or equivalent. Make sure the product that is used complies with local regulations.

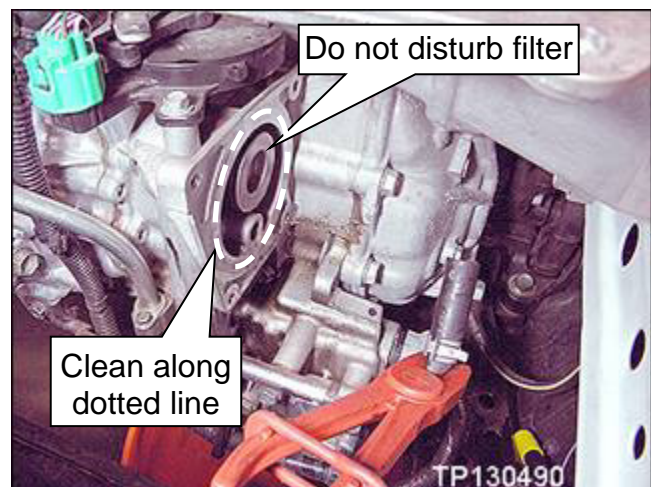


Figure 9

10. Install a new O-ring on the new CVT Fluid Cooler.

- Coat the O-ring with NS-2 or NS-3 CVT fluid, or equivalent before installing it.
- For the correct fluid application, see footnote # 2 under **PARTS INFORMATION**.

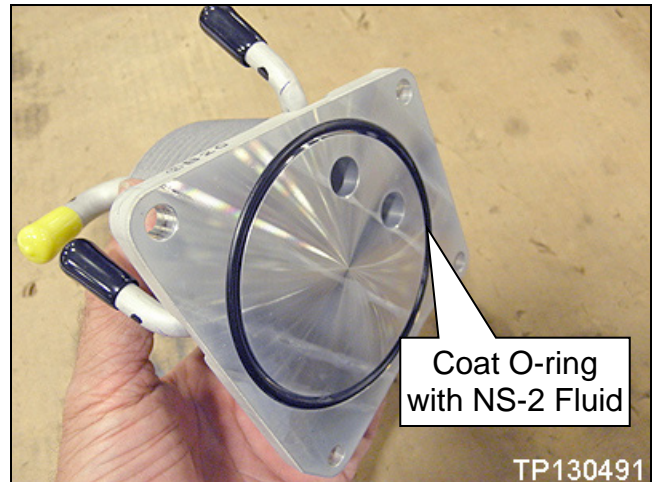


Figure 10

11. Install the new CVT Fluid Cooler.

- Bolts torque: 3.63 N•m (0.37 kg-m, 32 in-lb).

12. Clean out any residual coolant from the inside of both coolant hoses with brake spray.

NOTE: Use genuine Nissan Brake Cleaner or equivalent. Make sure the product that is used complies with local regulations.

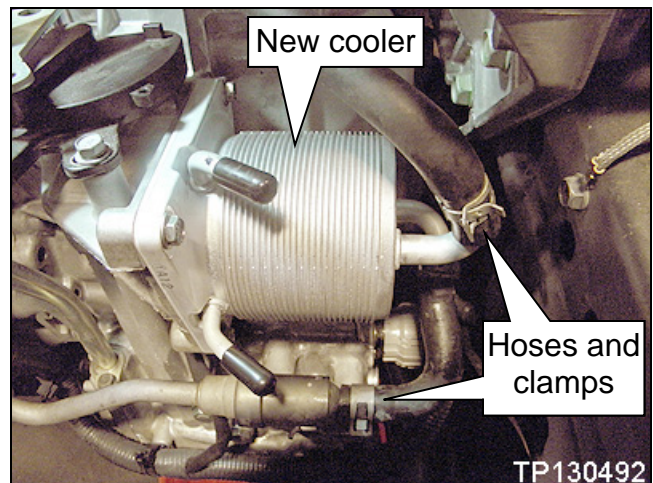


Figure 11

13. Install the water hoses with spring clamps onto the new CVT Fluid Cooler.

- Position the spring clamps as close to each fitting bulge as possible, and then release them.

NOTE: Confirm the clamps are not on top of each fitting bulge or on an angle.

14. Secure the Water Hose and Bracket with bolt "A" and bolt "B" (see Figure 11a).

- Bolts torque: 4.2 N•m (0.43 kg-m, 37 in-lb).

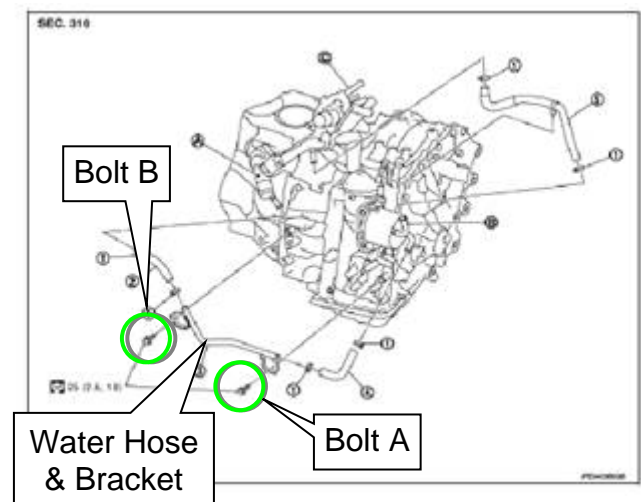
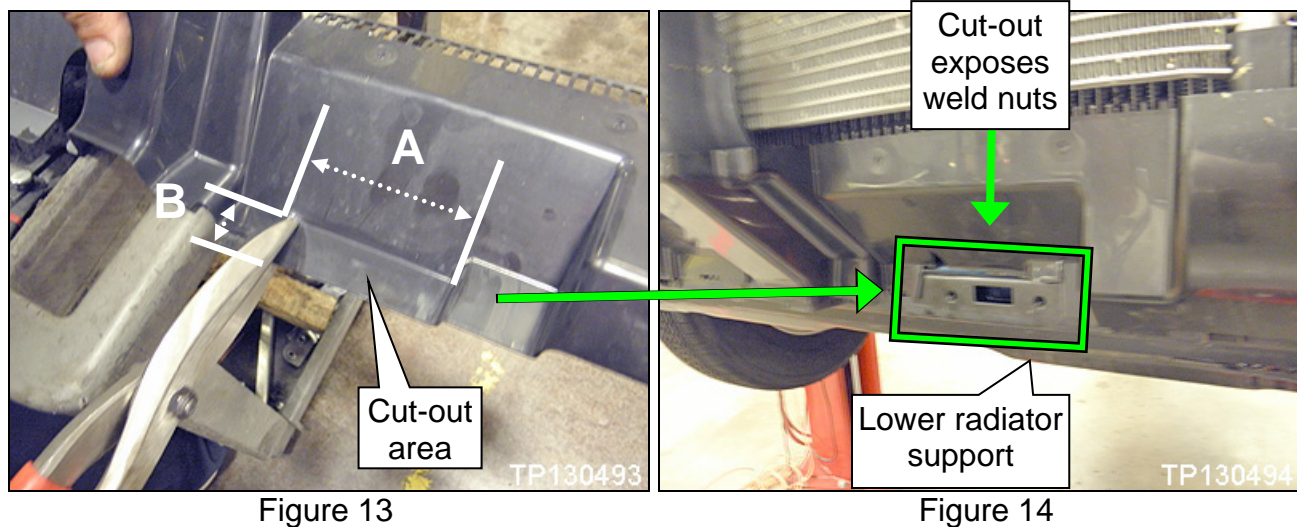
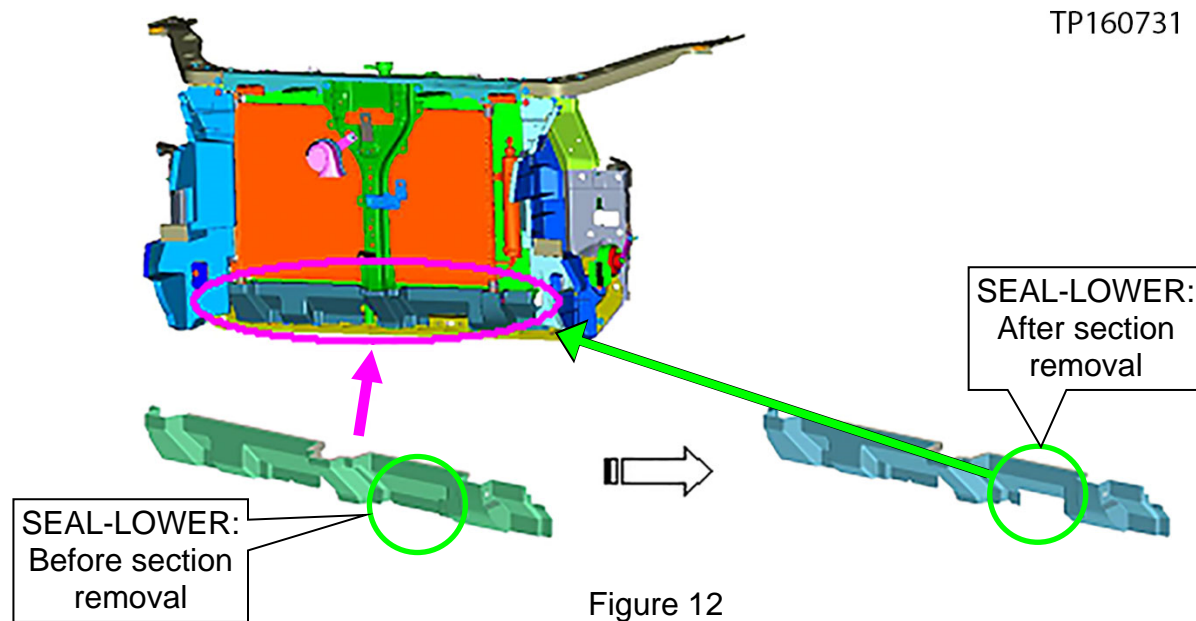


Figure 11a

Install Oil Cooler (external air-to-ATF CVT cooler)

1. Remove a section from the SEAL-LOWER.

- This cut-out will allow the installation of the new BRKT ASSY-O/COOLER, LWR (see Figure 12 and 16).
- a. Place the BRKT ASSY-O/COOLER, LWR from the service kit over the SEAL-LOWER.
- b. Mark “bracket width” where the material will be removed (see Figure 12 and 14).
- c. Measure and mark the area to be removed.
 - Approximate measurements: **A** = 127mm (5 inches); **B** = 50.8mm (2 inches)
- d. Gently remove the material marked, only enough to allow the BRKT ASSY-O/COOLER, LWR to be installed (see Figure 13 and 14).
 - Remove gently to avoid cracking.
 - Figure 14 shows the pre-existing weld nuts, and Figure 16 (page 10) shows the BRKT ASSY-O/COOLER, LWR mounted.



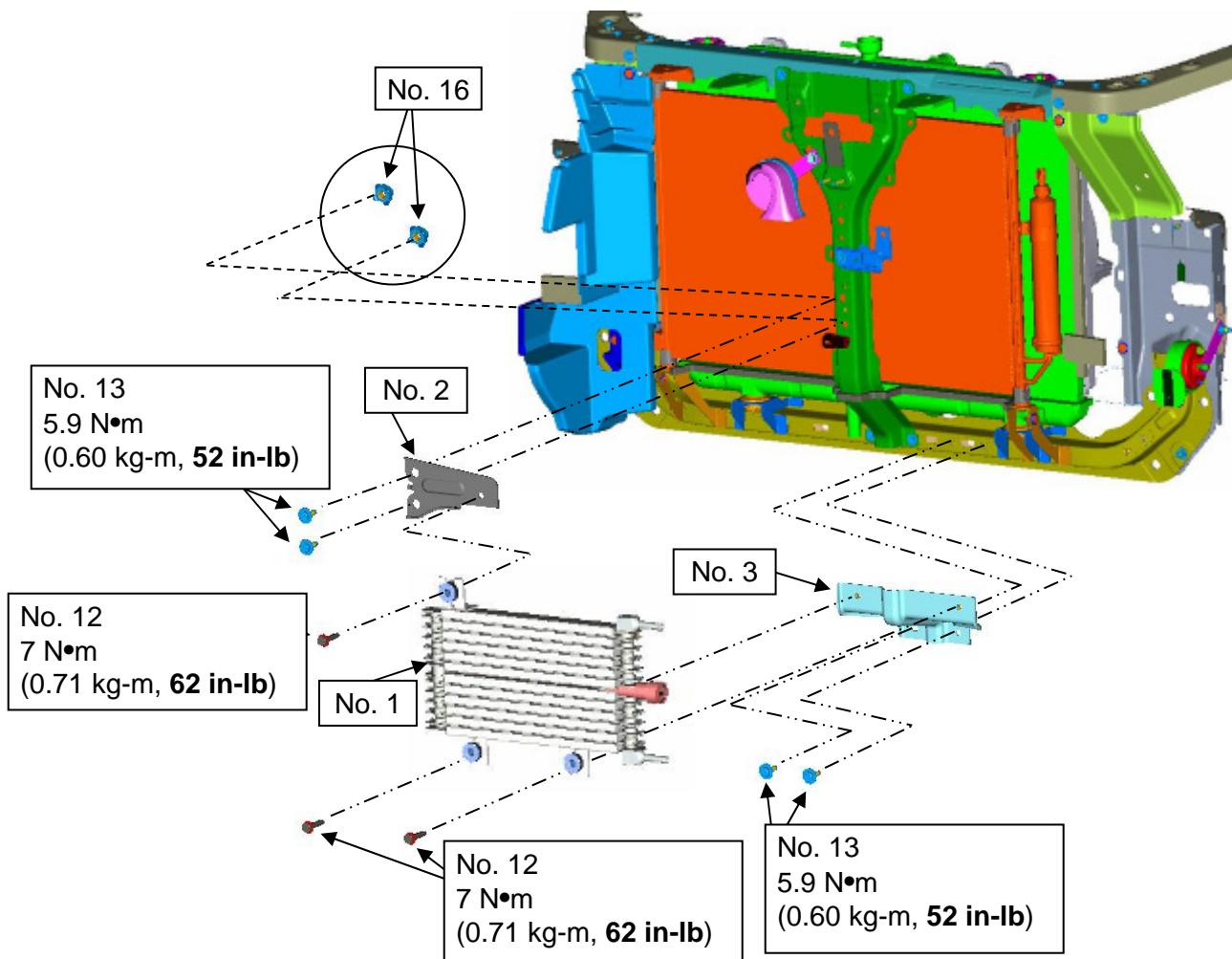


Figure 15

Figure 15 illustrates the COOLER ASSY-AUTO TRANS, attachment points, and fastener torque specifications.

NOTE: Refer to page 16, Table A, for service kit parts descriptions and quantities.

NOTE: For fastener torque specifications, refer to page 9, Figure 15, for steps 2-4 below.

2. Install BRKT ASSY-O/COOLER, LWR to the lower radiator support.
 - See page 9, No. 3.

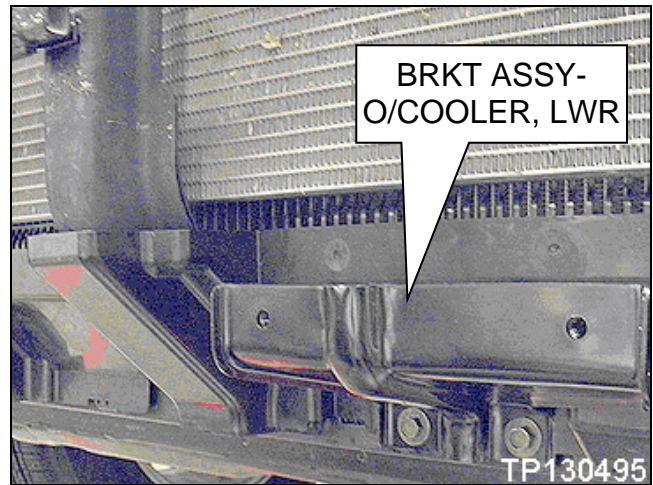


Figure 16

3. Install BRKT ASSY-O/COOLER, UPR to the center member.
 - Leave the nuts loose at this time.
 - See page 9, No. 2.

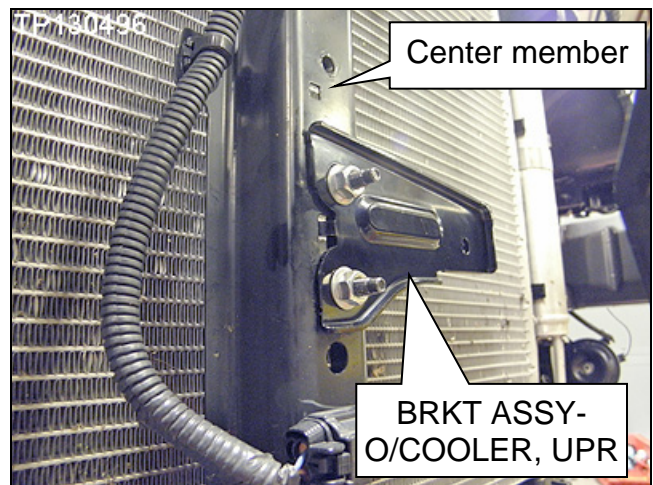


Figure 17

4. Install the COOLER ASSY-AUTO TRANS, OIL.
 - See page 9, No. 1.

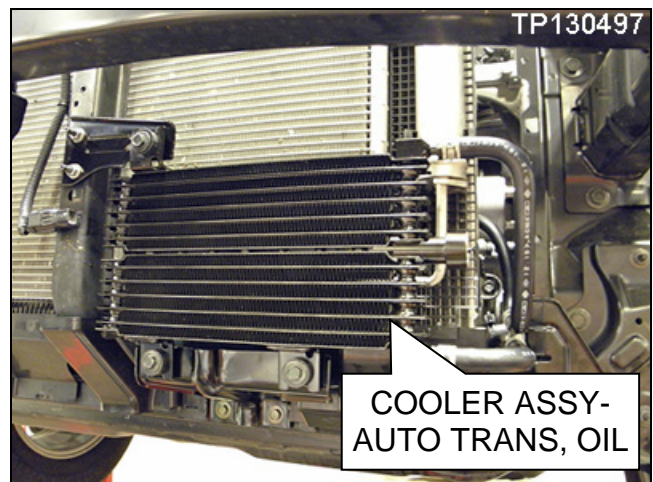


Figure 18

Assemble the Hoses and Side Bracket

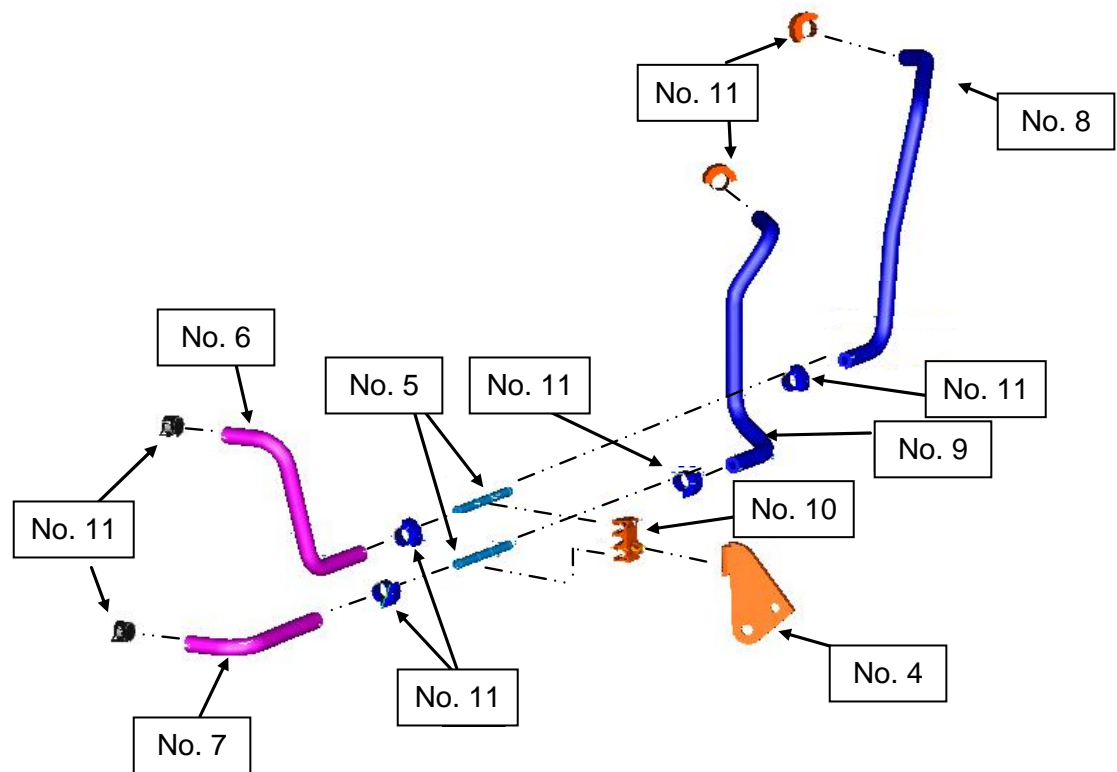


Figure 19

Figure 19 illustrates the COOLER ASSY-AUTO TRANS Hose Assembly referenced on page 12, steps 1-3.

NOTE: Refer to page 16, Table A, for service kit parts descriptions and quantities.

NOTE: Refer to page 11, Figure 19, for steps 1-3 below.

1. Install hoses, No. 6, 7, 8, and 9, to TUBE-OIL COOLER (No. 5) with CLAMP-HOSE (spring clamp No. 11).
 - Match the color marks on the hoses (pink to pink and green to green), and then rotate until the marks are aligned.
 - Position the spring clamps as close to each fitting bulge as possible.

NOTE: Confirm the clamps are not on top of a fitting bulge or on an angle.

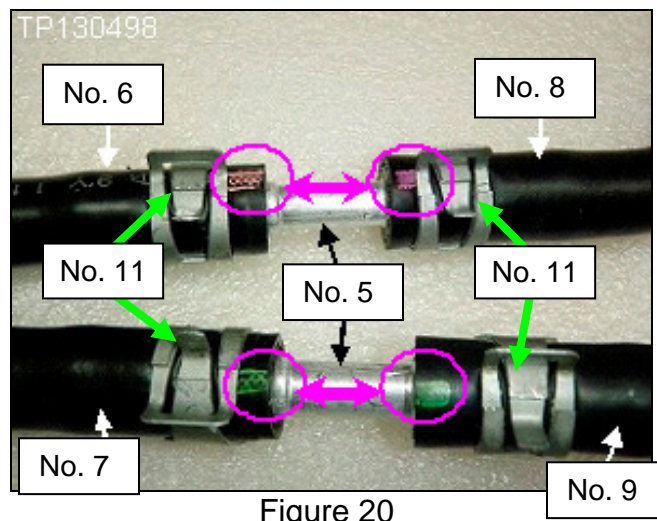


Figure 20

2. Install the CLIP-TUBE (No. 10) to the BRKT ASSY-O/COOLER, SIDE.
 - See page 11, Figure 19, No. 4.

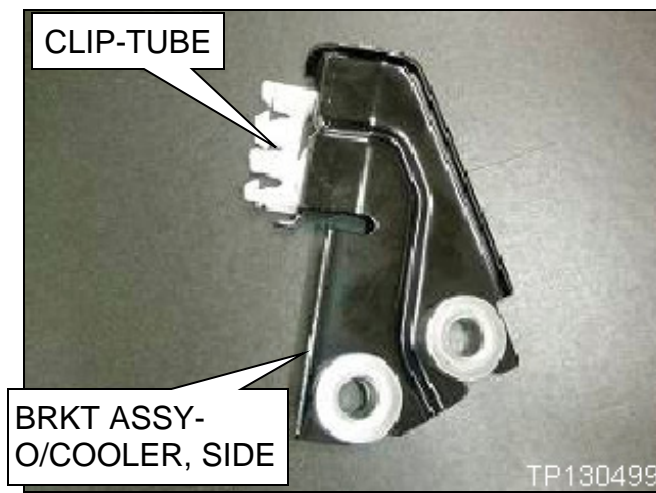


Figure 21

3. Assemble the Hoses to the Bracket as shown in Figure 22.
 - Install the pink color coded hose on the top and the green on the bottom of BRKT ASSY-O/COOLER, SIDE.
 - See page 11, Figure 19, No. 4.

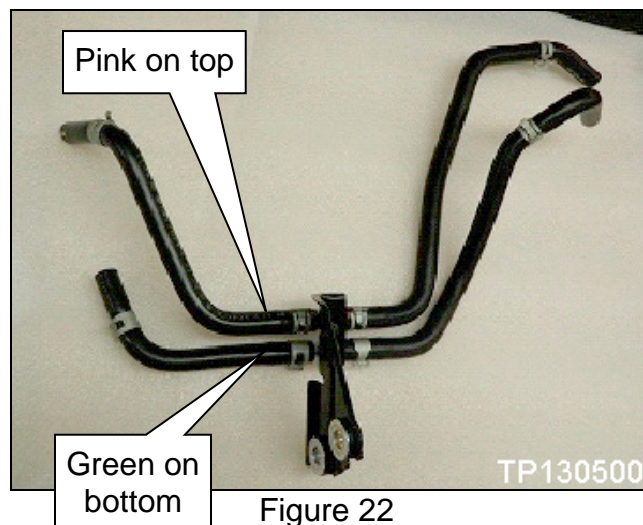


Figure 22

Install Hose and Bracket Assemblies

NOTE: Refer to page 11, Figure 19, and Figure 23 below for steps 1-3.

1. Install the assembled HOSE and BRKT ASSY-O/COOLER, SIDE onto the vehicle.
 - a. Route the hoses (shown in blue) between the radiator and left side member.
 - b. Install the BRKT ASSY-O/COOLER, SIDE (No. 4) with two bolts (No. 14).
 - The bolts fasten to pre-existing weld nuts.

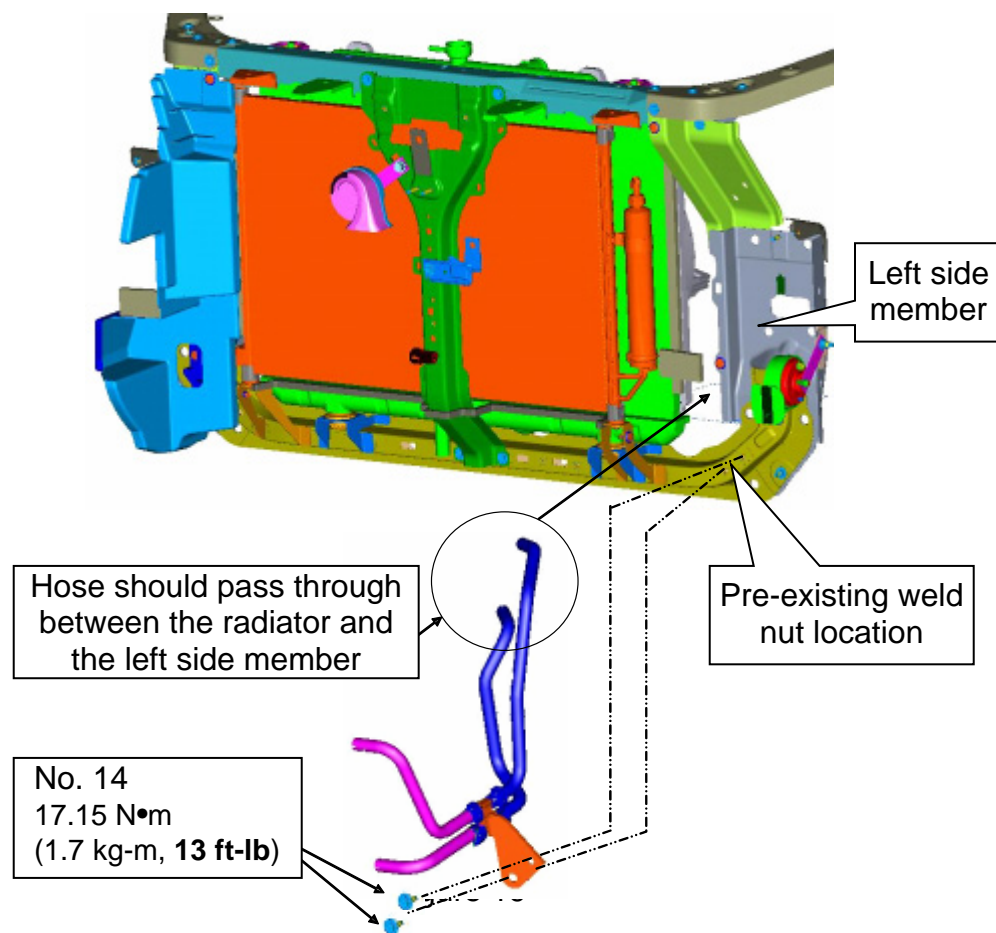


Figure 23

2. Install the HOSE (page 11, Figure 19, No. 6 and 7) onto COOLER ASSY-AUTO TRANS, OIL (No. 1).

- Use 2 new CLAMP-HOSE (spring clamps: page 11, Figure 19, No. 11).
- Install the HOSE (hoses) with the white paint marks facing toward front of the vehicle (see Figure 24).
- Position the spring clamps as close to each fitting bulge as possible.

NOTE: Confirm the clamps are not on top of a fitting bulge or on an angle.

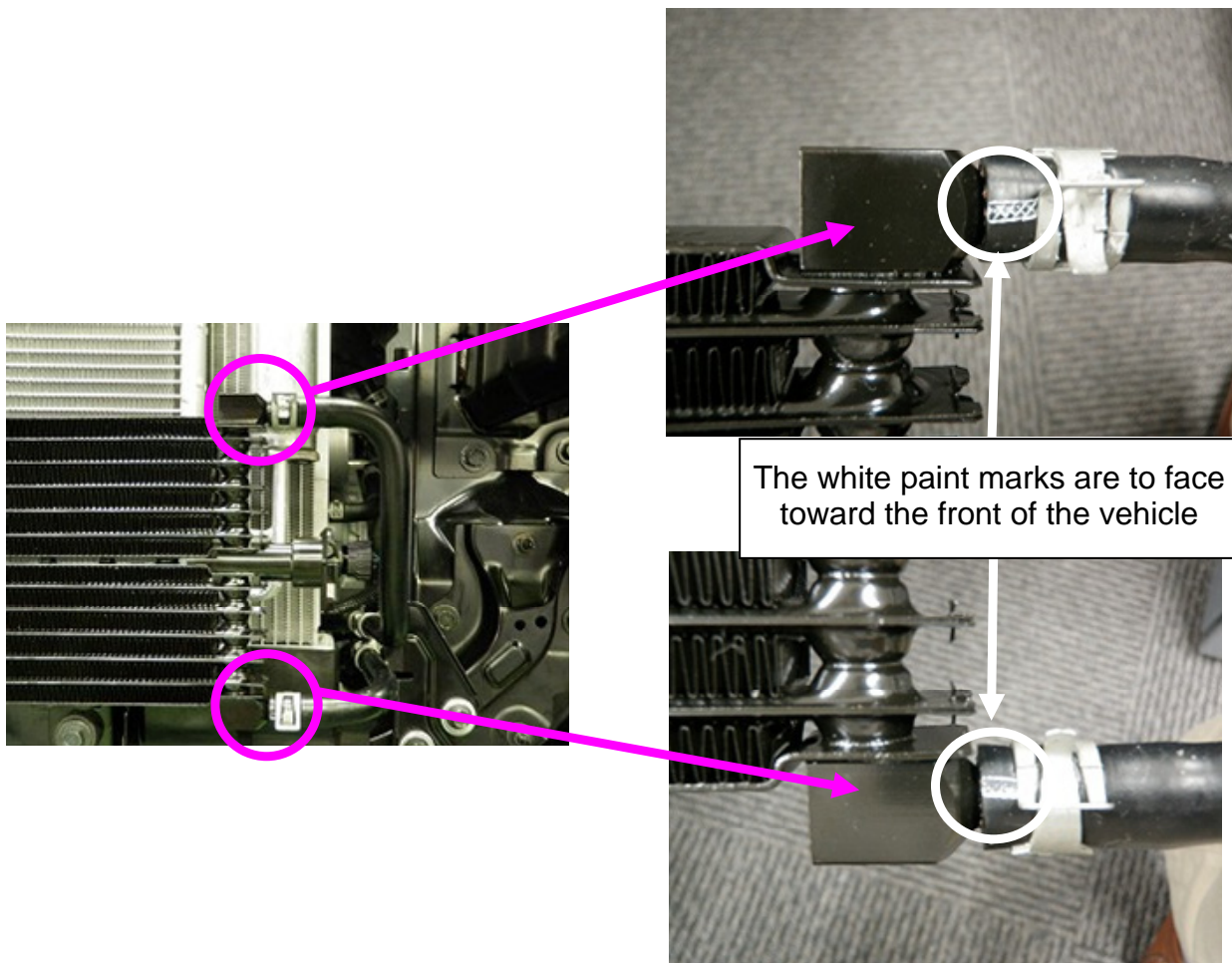


Figure 24

3. Install the HOSE (Figure 25, shown in blue) to the CVT Fluid Cooler.

- Use 2 new CLAMP-HOSE (spring clamps: Figure 25, No 11).
- Position the spring clamps as close to each fitting bulge as possible.

NOTE: Confirm the clamps are not on top of a fitting bulge or on an angle.

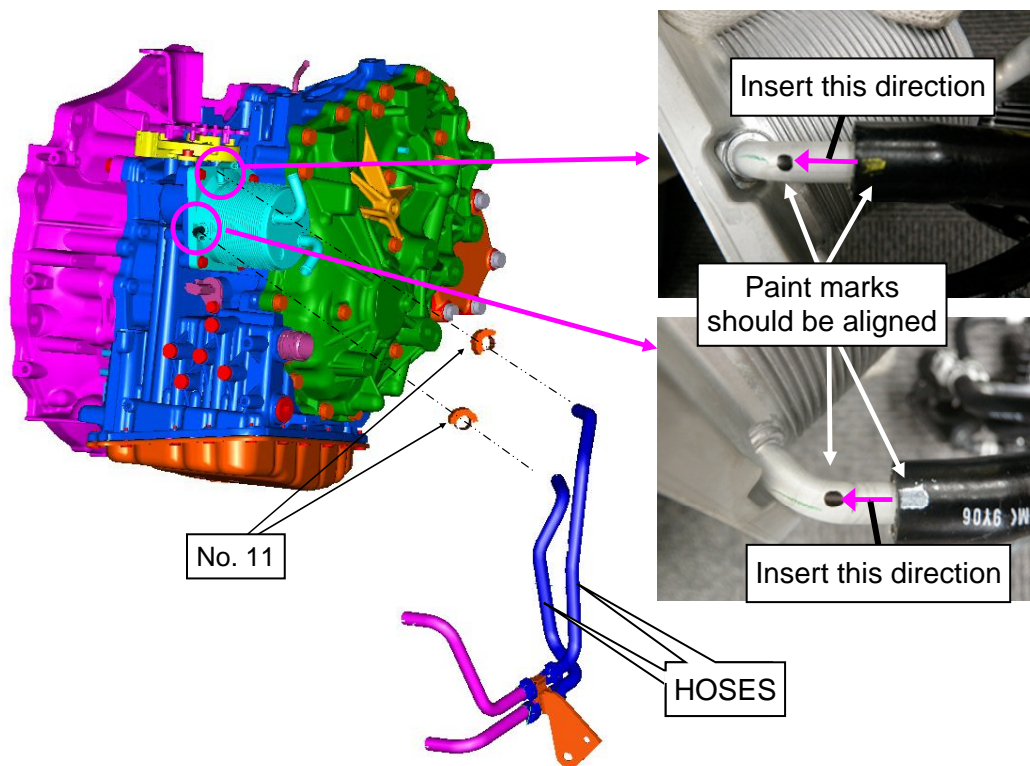


Figure 25

4. Install the front Bumper Fascia Assembly, front Under Cover, left front Fender Protector, left Air Guide, and the Air Inlet Duct.

- Refer to the appropriate section of the ESM for the installation procedures.

5. Check the coolant level, add as needed.

- Refer to ESM for the correct coolant for the model year vehicle being worked on.

6. Check the CVT fluid level, add as needed.

- Refer to appropriate section of the ESM for the correct method to check the CVT fluid level for the model year vehicle being worked on.

NOTE:

- For warranty repairs on 2011-2012 Rogue vehicles, Nissan NS-2 CVT Fluid **must** be used. For customer pay repairs, Nissan NS-2 CVT Fluid or an equivalent is recommended.
- For warranty repairs on 2013-2015 Rogue and Rogue Select vehicles, Nissan NS-3 CVT Fluid **must** be used. For customer pay repairs, Nissan NS-3 CVT Fluid or an equivalent is recommended.

PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY
SERVICE KIT-COOLER ASSY	B1606-JM01A	1
Nissan NS-2 CVT Fluid (1)	999MP-NS200P (3)	As needed
Nissan NS-3 CVT Fluid (2)	999MP-NS300P (3)	As needed
Control Valve Assembly	(4)	1

- (1)** For warranty repairs on 2011-2012 Rogue vehicles, Nissan NS-2 CVT Fluid **must** be used. For customer pay repairs, Nissan NS-2 CVT Fluid or an equivalent is recommended.
- (2)** For warranty repairs on **2013-2015** Rogue and Rogue Select vehicles, Nissan NS-3 CVT Fluid **must** be used. For customer pay repairs, Nissan NS-3 CVT Fluid or an equivalent is recommended.
- (3)** Order Nissan NS-2 and NS-3 CVT Fluid through the Nissan Maintenance Advantage program: Phone: 877-NIS-NMA1 (877-647-6621). Website order via link on dealer portal www.NNAnet.com and click on the "Maintenance Advantage" link.
- (4)** Use the VIN and the electronic parts catalog (FAST or equivalent) to obtain the applicable part number for the vehicle being worked on.

Table A

INDEX	PART NAME	QTY PER KIT
No. 1	COOLER ASSY-AUTO TRANS OIL (air-to-ATF cooler)	1
No. 2	BRKT ASSY-O/COOLER, UPR	1
No. 3	BRKT ASSY-O/COOLER, LWR	1
No. 4	BRKT ASSY-O/COOLER, SIDE	1
No. 5	TUBE-OIL COOLER	2
No. 6	HOSE-AUTO TRANS, UPR	1
No. 7	HOSE-AUTO TRANS, LWR	1
No. 8	HOSE-AUTO TRANS, UPR (2)	1
No. 9	HOSE-AUTO TRANS, LWR (2)	1
No. 10	CLIP-TUBE (INSULATOR)	1
No. 11	CLAMP-HOSE	8
No. 12	BOLT-HEX,PP W/CON SPW	3
No. 13	BOLT-HEX,PP W/CON SPW	4
No. 14	BOLT-HEX,PP W/CON SPW	2
No. 14a	NUT-HEX,PP W/CON SPW	2
No. 16	NUT-HEX,PP W/CON SPW	2
No. 18	OIL COOLER (CVT mounted heat exchanger with 4 ports)	1
No. 19	OIL COOLER O-RING	1
No. 20	Clip for lower seal	2

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace Control Valve Assembly	21606-ZX59A	JD48AA	AE	32	(1)
Oil cooler kit installation		JX15AA			1.5

(1) Reference the current Nissan Warranty Flat Rate Manual and use the indicated Flat Rate Time.

OR

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	1.5