

October 11, 2019

13284 Version 6

## Product Update: MDX 9-Speed Transmission Warmer (Transmission Previously Replaced for Transmission Warmer Leaking)

Supersedes 17-010, dated April 7, 2018, to revise the information highlighted in **yellow**

### AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2016	MDX	All	Check the iN VIN status for eligibility
<b>2017</b>	<b>MDX</b>	<b>All</b>	<b>Check the iN VIN status for eligibility</b>

### REVISION SUMMARY

**Under AFFECTED VEHICLES, 2017 MDX models were added.**

### BACKGROUND

Some 9-speed transmission warmers were improperly manufactured and allow the engine coolant and ATF to mix. If the fluids mix, the engine and transmission may be permanently damaged and require replacement. These vehicles previously had the transmission replaced because the transmission warmers leaked. In rare cases, these vehicles may have also overheated but because the issue was under investigation, a standard repair procedure hadn't been developed. Further action is needed before the vehicle is completely repaired.

Make sure you review this bulletin in its entirety before starting. There are multiple repairs available and the correct one for the vehicle you are working on is based on your inspection and client interview responses.

### CLIENT NOTIFICATION

Owners of affected vehicles will be sent a notification of this campaign.

Do an iN VIN status inquiry to make sure the vehicle is shown as eligible.

Some vehicles affected by this campaign may be in your new or used vehicle inventory. Repair these vehicles before they are sold.

### SERVICE ADVISOR

Ask the client if the vehicle overheated, for example, if the MID showed a message **Stop Driving Engine Temperature Too Hot** or there was steam from under the hood. Other signs include coolant leaking from the radiator cap or the coolant reserve tank.



OR



The vehicles in this campaign had the transmission previously replaced. The vehicle may have overheated due to the warmer leaking on the previous repair; ask the client if the vehicle overheated before the transmission was replaced. This will help your technician decide what repair needs to be done.

Write down the client responses on the RO.

**CLIENT INFORMATION:** The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

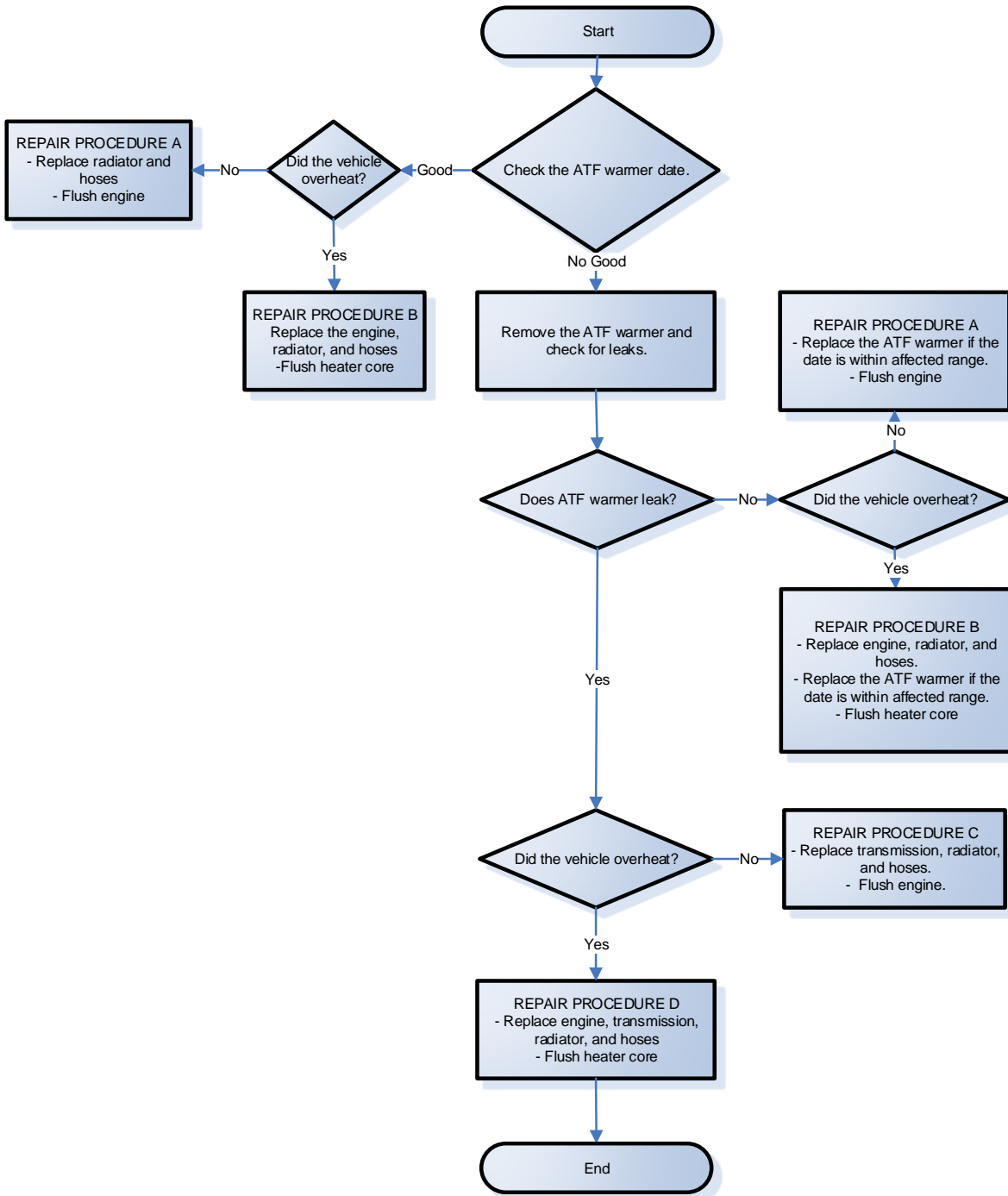
**NOTE: Any engine replaced without this documentation on the signed RO will be subject to debit.**

## **CORRECTIVE ACTION**

Inspect the warmer, and based on your inspection and interview with the client, do one of the following:

- Replace the transmission warmer, replace the radiator, coolant hoses, thermostat, coolant reserve tank, 2 ECT sensor (1 and 2) O-rings, and flush the cooling system.
- Replace the transmission, radiator, coolant hoses, thermostat, coolant reserve tank, 2 ECT sensor (1 and 2) O-rings, and flush the cooling system.
- Replace the short block, cylinder heads, radiator, thermostat, coolant reserve tank, all of the coolant hoses, 2 ECT sensor (1 and 2) O-rings, water passage, water connecting pipe, and flush the heater core.
- Replace the radiator, coolant hoses, thermostat, coolant reserve tank, 2 ECT sensor (1 and 2) O-rings, and flush the cooling system.
- Replace the short block, cylinder heads, transmission, radiator, thermostat, coolant reserve tank, all of the coolant hoses, 2 ECT sensor (1 and 2) O-rings, water passage, water connecting pipe, and flush the heater core.

The flowchart below provides a summary to help navigate the inspection and repair procedure. Make sure you read the service bulletin steps thoroughly for the detailed repair information.



## WARRANTY CLAIM INFORMATION

NOTE:

- Very few engine blocks should be replaced because of overheating. Replaced engine blocks may be called in to validate damage to the original block.
- Replacement of the engine block and/or transmission requires DPSM authorization.

Inspection and REPAIR PROCEDURE A - ALL

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
2185A9	Inspect the ATF warmer manufacture date, check engine for overheating and do REPAIR PROCEDURE A - Replace radiator and hoses - Flush engine	3.7 hrs	6ZF00	KG600	17-010M	06200-5NB-A58
2185A9	Inspect the ATF warmer manufacture date, check engine for overheating and do REPAIR PROCEDURE A - Replace radiator and hoses - Flush engine	3.7 hrs	6ZF00	KG600	17-010N	06200-5NB-A58
A	<b>Add if ATF warmer tested because of manufacture date.</b> - Includes replace or install ATF warmer	2.1 hrs				

Inspection and REPAIR PROCEDURE B - 2WD

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
2185B0	<b>2WD</b> - Inspect the ATF warmer manufacture date, check engine for overheating and do REPAIR PROCEDURE B -Replace engine, radiator, and hoses - Flush heater core - Includes updating PCM/TCM, idle learn, and alignment	12.2 hrs	6ZF00	KG600	17-010O	06200-5NB-A58
A	Add if the ATF warmer was <b>tested and reinstalled.</b>	0.9 hr				
2185B0	<b>2WD</b> - Inspect the ATF warmer manufacture date, check engine for overheating and do REPAIR PROCEDURE B -Replace engine, radiator, and hoses - Flush heater core - Includes updating PCM/TCM, idle learn, and alignment	12.2 hrs	6ZF00	KG600	17-010P	06200-5NB-A58
A	Add if the ATF warmer was <b>tested and replaced.</b>	0.9 hr				

Inspection and REPAIR PROCEDURE B - AWD

2185B1	<b>AWD</b> - Inspect the ATF warmer manufacture date, check engine for overheating and do REPAIR PROCEDURE B - Replace engine, radiator, and hoses - Flush heater core - Includes updating PCM/TCM, idle learn, and alignment	12.6 hrs	6ZF00	KG600	17-010Q	06200-5NB-A58
A	Add if the ATF warmer was <b>tested and reinstalled.</b>	0.9 hr				
2185B1	<b>AWD</b> - Inspect the ATF warmer manufacture date, check engine for overheating and do REPAIR PROCEDURE B - Replace engine, radiator, and hoses - Flush heater core - Includes updating PCM/TCM, idle learn, and alignment	12.6 hrs	6ZF00	KG600	17-010R	06200-5NB-A58
A	Add if the ATF warmer was <b>tested and replaced.</b>	0.9 hr				

Inspection and REPAIR PROCEDURE C – 2WD

NOTE:

- Very few engine blocks should be replaced because of overheating. Replaced engine blocks may be called in to validate damage to the original block.
- Replacement of the engine block and/or transmission requires DPSM authorization.

Operation Number	Description	Transmission Replacement Number	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
2185B2	<p><b>2WD</b> - Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <p>- Replace transmission, radiator, and hoses</p> <p>-Flush engine</p> <p>- Includes updating PCM/TCM, idle learn, and alignment</p>	06200-5NB-A58RM	10.5 hrs	6ZF00	KG600	17-010S	06200-5NB-A58
2185B2	<p><b>2WD</b> - Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <p>- Replace transmission, radiator, and hoses</p> <p>-Flush engine</p> <p>- Includes updating PCM/TCM, idle learn, and alignment</p>	06200-5NB-A58RM	10.5 hrs	6ZF00	KG600	47-010S	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler with REPAIR PROCEDURE C		0.9 hr				

Inspection and REPAIR PROCEDURE C – 2WD with ACC

2185B2	<p><b>2WD with ACC -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>-Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NB-A68RM	10.5 hrs	6ZF00	KG600	57-010S	06200-5NB-A58
2185B2	<p><b>2WD with ACC -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>-Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NB-A68RM	10.5 hrs	6ZF00	KG600	27-010S	06200-5NB-A58
A	<p>Add if the vehicle has an accessory external transmission cooler with REPAIR PROCEDURE C</p>	06200-5NB-A68RM	0.9 hr				



Inspection and REPAIR PROCEDURE C – 2WD with ACC and Idle-stop

2185B2	<p><b>2WD with ACC and Idle-stop -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>- Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NB-A78RM	10.5 hrs	6ZF00	KG600	67-010S	06200-5NB-A58
2185B2	<p><b>2WD with ACC and Idle-stop -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>- Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NB-A78RM	10.5 hrs	6ZF00	KG600	37-010S	06200-5NB-A58
A	<p>Add if the vehicle has an accessory external transmission cooler with REPAIR PROCEDURE C</p>		0.9 hr				

Inspection and REPAIR PROCEDURE C – AWD

Operation Number	Description	Transmission Replacement Number	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
2185B3	<p><b>AWD</b> - Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>-Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NC-A59RM	10.9 hrs	6ZF00	KG600	17-010T	06200-5NB-A58
2185B3	<p><b>AWD</b> - Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>-Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NC-A59RM	10.9 hrs	6ZF00	KG600	47-010T	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler with REPAIR PROCEDURE C		0.9 hr				

Inspection and REPAIR PROCEDURE C – AWD with ACC

2185B3	<p><b>AWD with ACC -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>-Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NC-A69RM	10.9 hrs	6ZF00	KG600	57-010T	06200-5NB-A58
2185B3	<p><b>AWD with ACC -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>-Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NC-A69RM	10.9 hrs	6ZF00	KG600	27-010T	06200-5NB-A58
A	<p>Add if the vehicle has an accessory external transmission cooler with REPAIR PROCEDURE C</p>		0.9 hr				

Inspection and REPAIR PROCEDURE C – AWD with ACC and Idle-stop

2185B3	<p><b>AWD with ACC and Idle-stop -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>- Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NC-A79RM	10.9 hrs	6ZF00	KG600	67-010T	06200-5NB-A58
2185B3	<p><b>AWD with ACC and Idle-stop -</b>                  Inspect the ATF warmer manufacture date and check engine for overheating and do REPAIR PROCEDURE C</p> <ul style="list-style-type: none"> <li>- Replace transmission, radiator, and hoses</li> <li>- Flush engine</li> <li>- Includes updating PCM/TCM, idle learn, and alignment</li> </ul>	06200-5NC-A79RM	10.9 hrs	6ZF00	KG600	37-010T	06200-5NB-A58
A	<p>Add if the vehicle has an accessory external transmission cooler with REPAIR PROCEDURE C</p>		0.9 hr				

Inspection and REPAIR PROCEDURE D – 2WD

NOTE:

- Very few engine blocks should be replaced because of overheating. Replaced engine blocks may be called in to validate damage to the original block.
- Replacement of the engine block and/or transmission requires DPSM authorization.

Operation Number	Description	Transmission Replacement Number	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
2185C2	<p><b>2WD</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <p>-Replace engine, transmission, radiator, and hoses</p> <p>-Flush heater core</p> <p>- Includes updating PCM/TCM, idle learn and alignment</p>	06200-5NB-A58RM	13.1 hrs	6ZF00	KG600	47-010W	06200-5NB-A58
2185C2	<p><b>2WD</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <p>-Replace engine, transmission, radiator, and hoses</p> <p>-Flush heater core</p> <p>- Includes updating PCM/TCM, idle learn and alignment</p>	06200-5NB-A58RM	13.1 hrs	6ZF00	KG600	17-010W	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler.		0.9 hr				

Inspection and REPAIR PROCEDURE D – 2WD with ACC

2185C2	<p><b>2WD with ACC</b> -                  Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NB-A68RM	13.1 hrs	6ZF00	KG600	57-010W	06200-5NB-A58
2185C2	<p><b>2WD with ACC</b> -                  Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NB-A68RM	13.1 hrs	6ZF00	KG600	27-010W	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler.		0.9 hr				

Inspection and REPAIR PROCEDURE D – 2WD with ACC and Idle-stop

2185C2	<p><b>2WD with ACC and Idle-stop</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NB-A78RM	13.1 hrs	6ZF00	KG600	67-010W	06200-5NB-A58
2185C2	<p><b>2WD with ACC and Idle-stop</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NB-A78RM	13.1 hrs	6ZF00	KG600	37-010W	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler.		0.9 hr				

Inspection and REPAIR PROCEDURE D – AWD

Operation Number	Description	Transmission Replacement Number	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
2185C3	<p><b>AWD</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NC-A59RM	13.5 hrs	6ZF00	KG600	47-010X	06200-5NB-A58
2185C3	<p><b>AWD</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NC-A59RM	13.5 hrs	6ZF00	KG600	17-010X	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler.		0.9 hr				



Inspection and REPAIR PROCEDURE D – AWD with ACC

2185C3	<p><b>AWD with ACC</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NC-A69RM	13.5 hrs	6ZF00	KG600	57-010X	06200-5NB-A58
2185C3	<p><b>AWD with ACC</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NC-A69RM	13.5 hrs	6ZF00	KG600	27-010X	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler.		0.9 hr				

Inspection and REPAIR PROCEDURE D – AWD with ACC and Idle-stop

2185C3	<p><b>AWD with ACC and Idle-stop</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NC-A79RM	13.5 hrs	6ZF00	KG600	67-010X	06200-5NB-A58
2185C3	<p><b>AWD with ACC and Idle-stop</b> - Inspect the ATF warmer manufacture date and check vehicle for overheating and do REPAIR PROCEDURE D</p> <ul style="list-style-type: none"> <li>-Replace engine, transmission, radiator, and hoses</li> <li>-Flush heater core</li> <li>- Includes updating PCM/TCM, idle learn and alignment</li> </ul>	06200-5NC-A79RM	13.5 hrs	6ZF00	KG600	37-010X	06200-5NB-A58
A	Add if the vehicle has an accessory external transmission cooler.		0.9 hr				

**PARTS INFORMATION – WARMER INSPECT AND REPLACEMENT**

Part Name	Part Number	Quantity
ATF Warmer Kit (Includes O-Rings)	06224-5J4-305	1
Fitting (used only with accessory cooler)	25910-5NC-003	2

**REQUIRED MATERIALS – ATF WARMER INSPECTION AND REPLACEMENT**

Part Name	Part Number	Quantity
ATF Type 3.1 NOTE: 1 quart will fill 5 vehicles unless the vehicle has an accessory ATF cooler.	08200-9017	1

NOTE: Order the Honda ATF for this campaign.

**PARTS INFORMATION – REPAIR PROCEDURE A**

Part Name	Part Number	Quantity
Radiator (DENSO)	19010-5J6-A01	1
Warmer Hose B (ATF)	19433-5J2-A00	1
Water Hose A	19521-5J6-A50	1
Water Hose B	19522-5J6-A00	1
Water Hose C	19523-5J6-A10	1
Water Hose (Lower) (A)	19502-5J6-A50	1
Water Hose (Lower) (B)	19504-5J2-A50	1
Water Hose (Upper)	19501-5J6-A10	1
Reserve Tank Tube B	19104-5J6-A00	1
Reserve Tank Tube A	19103-5J6-A00	1
Water Inlet Hose	79721-TZ5-A10	1
Water Outlet Hose	79725-TZ5-A11	1
Warmer Hose A (ATF)	19432-5J2-A50	1
Thermostat Cover Assembly	19315-5J2-A01	1
O-Ring (Denso)	91307-RTA-005	2
Reserve Tank Joint	19106-RSA-G00	1
Reserve Tank	19101-5J6-A00	1
Reserve Tank Cap	19102-5J6-A00	1

**REQUIRED MATERIALS – REPAIR PROCEDURE A**

Part Name	Part Number	Quantity
Coolant Type 2	OL999-9011A	16

**PARTS INFORMATION – REPAIR PROCEDURE B**

<b>Part Name</b>	<b>Part Number</b>	<b>Quantity</b>
Cylinder Block Assembly	10002-5J6-A10	1
Cylinder Head Assembly (Front)	10004-5J6-A11	1
Cylinder Head Assembly (Rear)	10005-5J6-A11	1
Flange Bolt (12 x 70 mm)	90051-R97-000	1
Flange Bolt (12 x 120 mm)	90051-5J4-000	1
Flange Bolt (10 x 60 mm)	90168-TA1-A00	2
Flange Nut (12 mm)	90371-SAA-010	4
Flange Bolt (10 x 35 mm)	90163-SDA-A01	2
Pre-Chamber Gasket	18393-SDB-A00	1
Exhaust Pipe Gasket (NOK)	18212-SA7-003	2
Self-Lock Nut (10 mm)	90212-SA5-003	9
Bolt (12 point 8 x 21 mm) (AWD Only)	90113-S10-000	8
Flange Bolt (10 x 29 mm)	90382-SH9-003	2
Shaft Ring Seal Kit (AWD)	06235-5L9-000	1
Flange Nut (12 mm)	90362-SZA-A00	4
Split Pin (3.0 x 22 mm)	94201-30220	2
Castle Nut (14 mm)	90365-STX-A00	2
Flange Bolt (12 x 30 mm)	90161-SHJ-A00	4
Flange Bolt (14 x 140 mm)	90165-TZ5-A10	2
Flange Bolt (14 x 125 mm)	90165-TK8-A00	2
Snap Ring (32 x 2.2 mm)	44319-STX-A01	1
Set Ring (32 x 2.2 mm)	44319-STX-A60	1
Flange Bolt (10 x 30 mm)	90163-SDB-A00	3
Spindle Nut	90305-S3V-A11	2
EGR Pipe Gasket A	18716-R70-A01	1
EGR Pipe Gasket B	18719-R70-A01	1
Exhaust Chamber Gasket (Nippon Leakless)	18115-5G0-A01	2
Self-Lock Nut (8 mm)	90212-RCA-A01	8
Intake Manifold Cover Gasket (Upper)	17112-5G0-A01	1
Intake Manifold Gasket (Nippon Leakless)	17105-R9P-A01	1
Front Intake Manifold Base Gasket	17055-R9P-A01	1

Rear Intake Manifold Base Gasket	17065-R9P-A01	1
Throttle Body Gasket	16176-RYE-A10	1
Timing Belt Idler Bolt	14551-RCA-A01	1
Flange Bolt (12 x 45 mm)	90165-SDA-A00	1
Flange Bolt (10 x 30 mm)	90103-SV4-013	3
EGR Valve Gasket (ISHINO)	18715-PB2-000	1
O-Ring (31.2 x 4.1 mm) (NOK)	91314-PH7-003	2
Fuel Joint Pipe Set	16012-R9P-315	1
O-Ring	91311-5A2-A01	1
Sealing Washer (12 mm)	16705-5A2-A01	2
Injector Clip	16451-5A2-A01	6
Injector Seal Set	16453-R9P-A00	2
Rear Water Passage Gasket (NIPPON LEAKLESS)	19412-5G0-A01	1
Front Water Passage Gasket (NIPPON LEAKLESS)	19411-5G0-A02	1
Rear Cylinder Head Gasket (NIPPON LEAKLESS)	12261-R9P-A01	1
Front Cylinder Head Gasket (NIPPON LEAKLESS)	12251-R9P-A01	1
Radiator (DENSO)	19010-5J6-A01	1
Warmer Hose B (ATF)	19433-5J2-A00	1
Water Hose A	19521-5J6-A50	1
Water Hose C	19523-5J6-A10	1
Water Hose (Lower) (A)	19502-5J6-A50	1
Water Hose (Lower) (B)	19504-5J2-A50	1
Water Hose (Upper)	19501-5J6-A10	1
Reserve Tank Tube B	19104-5J6-A00	1
Reserve Tank Tube A	19103-5J6-A00	1
Water Inlet Hose	79721-TZ5-A10	1
Water Outlet Hose	79725-TZ5-A11	1
Thermostat Cover Assembly	19315-5J2-A01	1
Warmer Hose A (ATF)	19432-5J2-A50	1
Connecting Pipe	19505-5J2-A00	1
Water Passage	19410-5J2-A00	1
O-Ring (Denso)	91307-RTA-005	2
Reserve Tank Joint	19106-RSA-G00	1
Reserve Tank Cap	19102-5J6-A00	1

Oil Filter	15400-PLM-A02	1
Accessory Cooler Kit (If equipped)	06255-5NC-326	1
Flange Bolt (12 x 75 mm)	90163-TA0-A00	4
Water Hose B	19522-5J6-A00	1
Tank Reserve	19101-5J6-A00	1

**REQUIRED MATERIALS – REPAIR PROCEDURE B**

<b>Part Name</b>	<b>Part Number</b>	<b>Quantity</b>
ATF Type 3.1 (only if the vehicle is equipped with an accessory cooler)	08200-9017	1
Coolant Type 2	OL999-9011A	3
Acura motor oil 0W-20	08798-9073	6

NOTE: Order the Honda ATF for this campaign.

**PARTS INFORMATION – REPAIR PROCEDURE C**

Part Name	Part Number	Quantity
Transmission		1
2WD	06200-5NB-A58RM	
2WD with ACC	06200-5NB-A68RM	
2WD with ACC with auto idle stop	06200-5NB-A78RM	
AWD	06200-5NC-A59RM	
AWD with ACC	06200-5NC-A69RM	
AWD with ACC with auto idle stop	06200-5NC-A79RM	
Flange Bolt (12 x 70 mm)	90051-R97-000	1
Flange Bolt (12 x 120 mm)	90051-5J4-000	1
Flange Bolt (10 x 60 mm)	90168-TA1-A00	2
Flange Nut (12 mm)	90371-SAA-010	4
Flange Bolt (10 x 35 mm)	90163-SDA-A01	2
Pre-Chamber Gasket	18393-SDB-A00	1
Exhaust Pipe Gasket (NOK)	18212-SA7-003	2
Self-Lock Nut (10 mm)	90212-SA5-003	9
Bolt (12 point 8 x 21 mm)	90113-S10-000	8
Flange Bolt (12 x 29 mm)	90382-SH9-003	2
Shaft Ring Seal Kit (AWD)	06235-5L9-000	1
Flange Nut (12 mm)	90362-SZA-A00	4
Split Pin (3.0 x 22 mm)	94201-30220	2
Castle Nut (14 mm)	90365-STX-A00	2
Flange Bolt (12 x 30 mm)	90161-SHJ-A00	4
Flange Bolt (14 x 140 mm)	90165-TZ5-A10	2
Flange Bolt (10 x 125 mm)	90165-TK8-A00	2
Snap Ring (32 x 2.2 mm)	44319-STX-A01	1
Set Ring (32 x 2.2 mm)	44319-STX-A60	1
Flange Bolt (10 x 30 mm)	90163-SDB-A00	3
Radiator (DENSO)	19010-5J6-A01	1
Warmer Hose B (ATF)	19433-5J2-A00	1
Water Hose A	19521-5J6-A50	1
Water Hose C	19523-5J6-A10	1
Water Hose (Lower) (A)	19502-5J6-A50	1
Water Hose (Lower) (B)	19504-5J2-A50	1
Water Hose (Upper)	19501-5J6-A10	1
Reserve Tank Tube B	19104-5J6-A00	1
Reserve Tank Tube A	19103-5J6-A00	1
Water Inlet Hose	79721-TZ5-A10	1

Water Outlet Hose	79725-TZ5-A11	1
Warmer Hose A (ATF)	19432-5J2-A50	1
Thermostat Cover Assembly	19315-5J2-A01	1
O-Ring (DENSO)	91307-RTA-005	2
Reserve Tank Joint	19106-RSA-G00	1
Accessory Cooler Kit (ATF) If equipped)	06255-5NC-326	1
Water Hose B	19522-5J6-A00	1
Reserve Tank	19101-5J6-A00	1
Reserve Tanks Cap	19102-5J6-A00	1

**REQUIRED MATERIALS – REPAIR PROCEDURE C**

<b>Part Name</b>	<b>Part Number</b>	<b>Quantity</b>
ATF Type 3.1 NOTE: 1 quart will fill 5 vehicles unless the vehicle has an accessory ATF cooler.	08200-9017	1
Coolant Type 2	OL999-9011A	16

NOTE: Order the Honda ATF for this campaign.



**PARTS INFORMATION – REPAIR PROCEDURE D**

Part Name	Part Number	Quantity
Transmission		1
2WD	06200-5NB-A58RM	
2WD with ACC	06200-5NB-A68RM	
2WD with ACC with auto idle stop	06200-5NB-A78RM	
AWD	06200-5NC-A59RM	
AWD with ACC	06200-5NC-A69RM	
AWD with ACC with auto idle stop	06200-5NC-A79RM	
Cylinder Block Assembly	10002-5J6-A10	1
Cylinder Head Assembly (Front)	10004-5J6-A11	1
Cylinder Head Assembly (Rear)	10005-5J6-A11	1
Flange Bolt (12 x 70 mm)	90051-R97-000	1
Flange Bolt (12 x 120 mm)	90051-5J4-000	1
Flange Bolt (10 x 60 mm)	90168-TA1-A00	2
Flange Nut (12 mm)	90371-SAA-010	4
Flange Bolt (10 x 35 mm)	90163-SDA-A01	2
Pre-Chamber Gasket	18393-SDB-A00	1
Exhaust Pipe Gasket (NOK)	18212-SA7-003	2
Self-Lock Nut (10 mm)	90212-SA5-003	9
Bolt (12 point 8 x 21 mm) (AWD Only)	90113-S10-000	8
Flange Bolt (10 x 29 mm)	90382-SH9-003	2
Shaft Ring Seal Kit (AWD)	06235-5L9-000	1
Flange Nut (12 mm)	90362-SZA-A00	4
Split Pin (3.0 x 22 mm)	94201-30220	2
Castle Nut (14 mm)	90365-STX-A00	2
Flange Bolt (12 x 30 mm)	90161-SHJ-A00	4
Flange Bolt (14 x 140 mm)	90165-TZ5-A10	2
Flange Bolt (14 x 125 mm)	90165-TK8-A00	2
Snap Ring (32 x 2.2 mm)	44319-STX-A01	1
Set Ring (32 x 2.2 mm)	44319-STX-A60	1
Flange Bolt (10 x 30 mm)	90163-SDB-A00	3
Spindle Nut	90305-S3V-A11	2
EGR Pipe Gasket A	18716-R70-A01	1
EGR Pipe Gasket B	18719-R70-A01	1

Exhaust Chamber Gasket (Nippon Leakless)	18115-5G0-A01	2
Self-Lock Nut (8 mm)	90212-RCA-A01	8
Intake Manifold Cover Gasket (Upper)	17112-5G0-A01	1
Intake Manifold Gasket (Nippon Leakless)	17105-R9P-A01	1
Front Intake Manifold Base Gasket	17055-R9P-A01	1
Rear Intake Manifold Base Gasket	17065-R9P-A01	1
Throttle Body Gasket	16176-RYE-A10	1
Timing Belt Idler Bolt	14551-RCA-A01	1
Flange Bolt (12 x 45 mm)	90165-SDA-A00	1
Flange Bolt (10 x 30 mm)	90103-SV4-013	3
EGR Valve Gasket (ISHINO)	18715-PB2-000	1
O-Ring (31.2 x 4.1 mm) (NOK)	91314-PH7-003	2
Fuel Joint Pipe Set	16012-R9P-315	1
O-Ring	91311-5A2-A01	1
Sealing Washer (12 mm)	16705-5A2-A01	2
Injector Clip	16451-5A2-A01	6
Injector Seal Set	16453-R9P-A00	2
Rear Water Passage Gasket (NIPPON LEAKLESS)	19412-5G0-A01	1
Front Water Passage Gasket (NIPPON LEAKLESS)	19411-5G0-A02	1
Rear Cylinder Head Gasket (NIPPON LEAKLESS)	12261-R9P-A01	1
Front Cylinder Head Gasket (NIPPON LEAKLESS)	12251-R9P-A01	1
Radiator (DENSO)	19010-5J6-A01	1
Warmer Hose B (ATF)	19433-5J2-A00	1
Water Hose A	19521-5J6-A50	1
Water Hose C	19523-5J6-A10	1
Water Hose (Lower) (A)	19502-5J6-A50	1
Water Hose (Lower) (B)	19504-5J2-A50	1
Water Hose (Upper)	19501-5J6-A10	1
Reserve Tank Tube B	19104-5J6-A00	1
Reserve Tank Tube A	19103-5J6-A00	1
Water Inlet Hose	79721-TZ5-A10	1
Water Outlet Hose	79725-TZ5-A11	1
Thermostat Cover Assembly	19315-5J2-A01	1

Warmer Hose A (ATF)	19432-5J2-A50	1
Connecting Pipe	19505-5J2-A00	1
Water Passage	19410-5J2-A00	1
O-Ring (Denso)	91307-RTA-005	2
Reserve Tank Joint	19106-RSA-G00	1
Reserve Tank Cap	19102-5J6-A00	1
Oil Filter	15400-PLM-A02	1
Accessory Cooler Kit (If equipped)	06255-5NC-326	1
Flange Bolt (12 x 75 mm)	90163-TA0-A00	4
Water Hose B	19522-5J6-A00	1
Tank Reserve	19101-5J6-A00	1

#### REQUIRED MATERIALS – REPAIR PROCEDURE D

Part Name	Part Number	Quantity
ATF Type 3.1 (only if the vehicle is equipped with an accessory cooler)	08200-9017	1
Coolant Type 2	OL999-9011A	3
Acura motor oil 0W-20	08798-9073	7

NOTE: Order the Honda ATF for this campaign.

## TOOL INFORMATION

Part Name	Model Number	Quantity
Coolant Flush Kit Pump and Filter Set	VSB02C000045	1
9 A/T Pressure Test Kit	VSB02C000046	1
9 A/T Bucket and Hose Set	VSB02C000047	1
9 A/T Adapter and Hardware Set	VSB02C000048	1

### NOTE:

- Each dealer was sent one of each of these tools. If you need additional tools, contact the Honda Tool and Equipment Program at 888-424-6857.
- Individual items in the kit and sets are not available separately. You must order the complete kit or set.

Coolant Flush Kit Pump and Filter Set - VSB02C000045



9 A/T Adapter and Hardware Set - VSB02C000048



9 A/T Pressure Test Kit - VSB02C000046



9 A/T Bucket and Hose Set - VSB02C000047



## DATE INSPECTION

1. Inspect the date on the transmission warmer. The affected transmission warmers were built between April 28, 2015 (2015-04-28) and July 15, 2015 (2015-07-15).
  - If the build date **is within the date range**, go to ATF WARMER INSPECTION.
  - If the build date is before or after the date range, go to step 2.

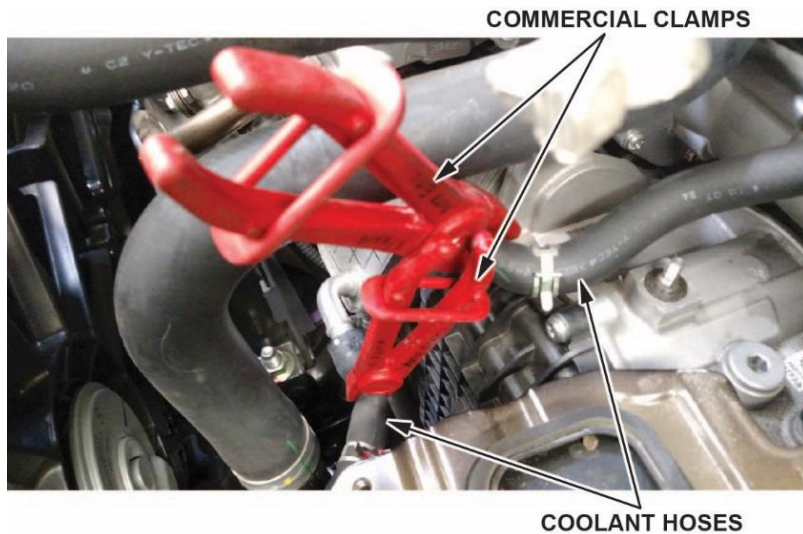


TRANSMISSION WARMER

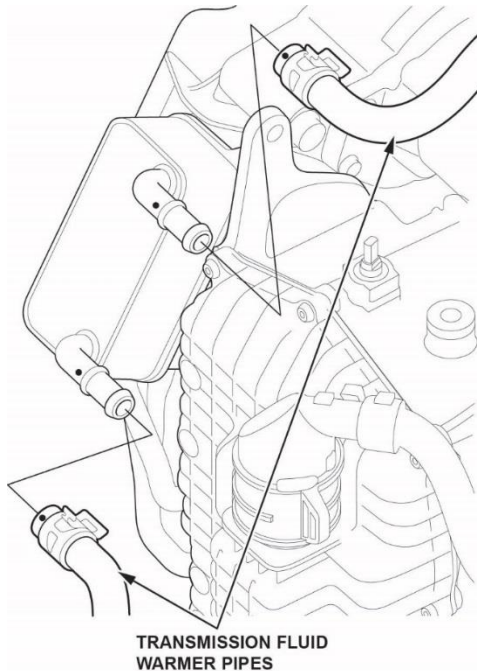
2. Check the client responses on the RO to see if the vehicle overheated.
  - If the vehicle did not overheat, go to [REPAIR PROCEDURE A.](#)
  - If the vehicle did overheat, go to [REPAIR PROCEDURE B.](#)

## ATF WARMER INSPECTION

1. Raise the vehicle on a lift.
2. Remove the splash shield. Refer to the service information.
3. Remove the air cleaner. Refer to the service information.
4. Remove the intake air guide. Refer to the service information.
5. Remove the 12-volt battery. Refer to the service information.
6. Remove the battery box. Refer to the service information.
7. Remove the connector bracket. Refer to the service information.
8. Using commercially-available clamps, pinch off the coolant hoses.



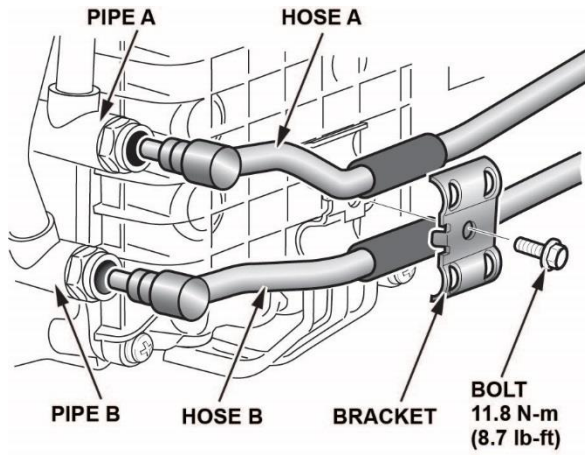
9. Remove the coolant hoses from the transmission warmer.



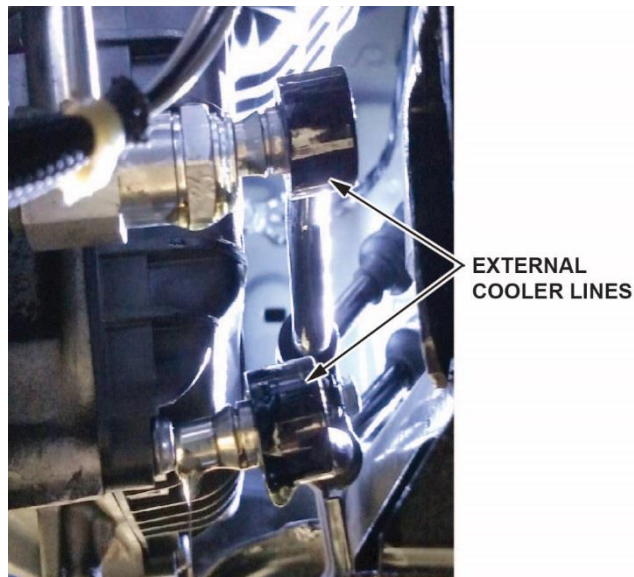
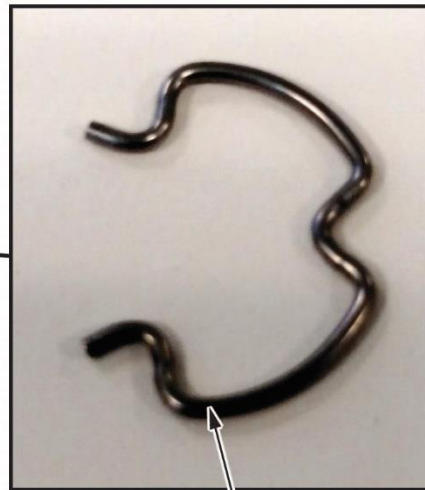
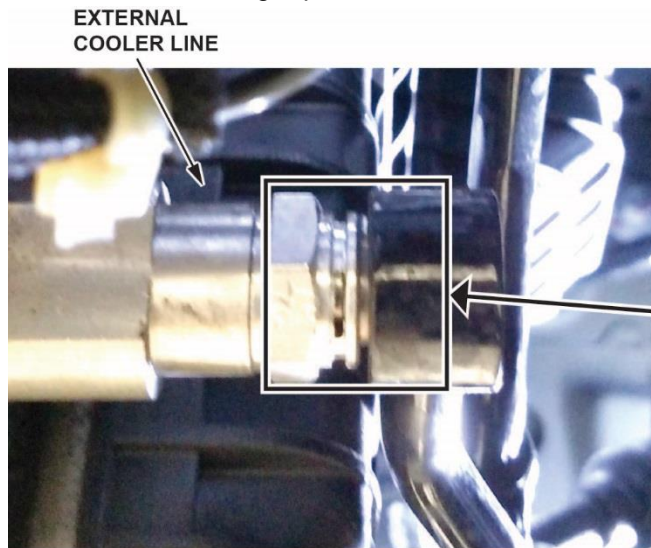
10. Clean the connection points around the transmission fluid warmer pipes.
  - If the vehicle is equipped with an accessory external cooler, go to step 11.
  - If the vehicle is **NOT** equipped with an accessory external cooler, go to step 12.

11. Detach the accessory transmission cooler hoses.

- Remove the bolt and the bracket.

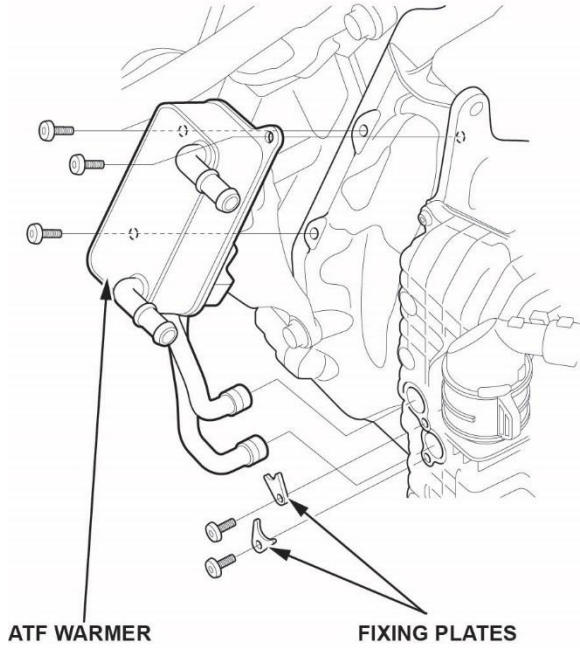


- Push the retaining clip out, and detach the external accessory cooler lines.





12. Remove the 3 hold down bolts and 2 fixing plate bolts to remove the transmission warmer. Place the warmer on a clean surface.



**WARMER WITH  
ACCESSORY  
COOLER LINES**

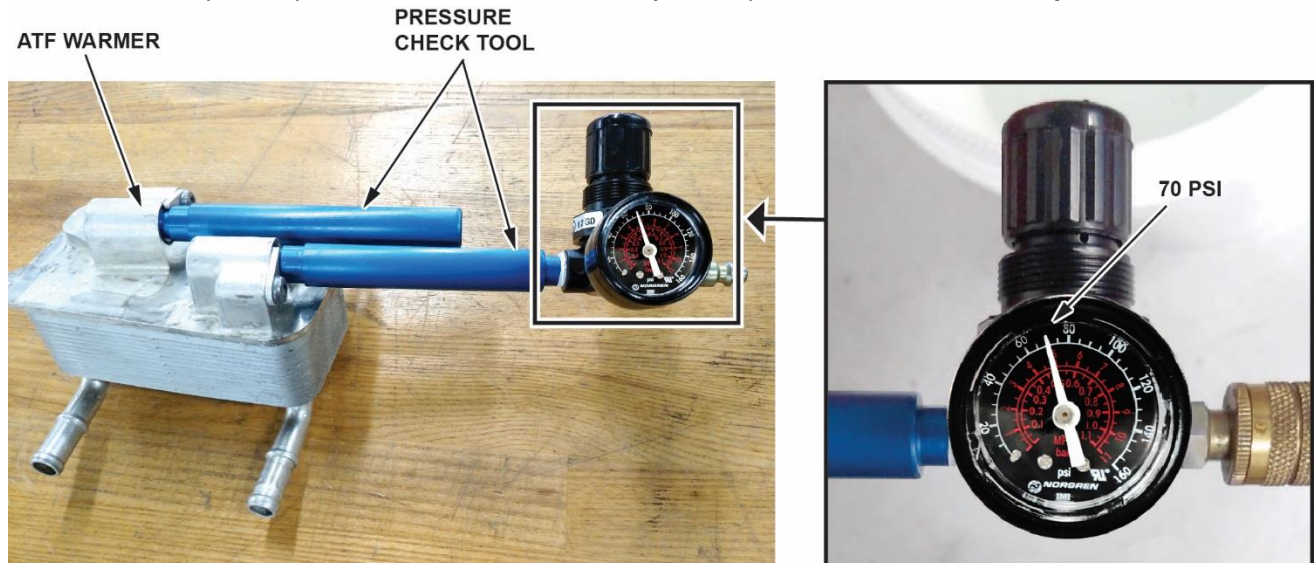


**WARMER WITHOUT  
ACCESSORY  
COOLER LINES**



13. Prepare the transmission warmer to check for leaks.

- Remove the original ATF lines from the warmer.  
NOTE: Be careful not to damage the lines as you may reuse them.
- Install the pressure check tool as shown with the fixing plates, and torque the bolts to **10 N·m (7 lb-ft)**.
- Fill a bucket with warm water.
- Connect shop air to pressurize the warmer, and adjust the pressure check tool to **70 psi**.



14. Check the transmission warmer for leaks by submerging the warmer completely under the water and watching for bubbles.

NOTE: Some bubbles are normal when the transmission warmer is first submerged and will come to a stop. If there is a leak, there will be a steady stream of bubbles coming from the transmission warmer.

- If there are no bubbles coming from the warmer, continue with the warmer replacement. Go to step 15.
- If there are bubbles, take photos (see Photos) and check to see if the vehicle also overheated by checking the client responses on the RO.
  - If the transmission warmer leaks but the engine did not overheat, go to [REPAIR PROCEDURE C](#).
  - If the transmission warmer leaks and the engine overheated, go to [REPAIR PROCEDURE D](#).



## Photos

If there are bubbles because of a leaking transmission warmer, take photos of the bubbles during the pressure test, the transmission warmer serial number, and the VIN.

- The pressure test

ATF WARMER PRESSURE TEST



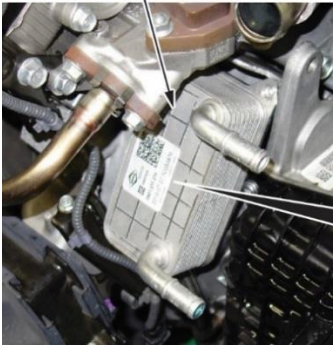
*Take this photo:*

BUBBLES



- The transmission warmer serial number

TRANSMISSION WARMER



*Take this photo:*



- VIN

VIN LABEL



*Take this photo:*



### NOTE:

- These photos must be submitted with any warranty claim where the transmission is replaced.
- Make sure you install the leaking transmission warmer on the original transmission to be returned to the remanufacturing facility. Any transmission replacement claims that do not have the leaking warmer installed on the returned transmission may be subject to debit.
- Any transmission replacement claims that do not include the required photos may be subject to debit.

## Unacceptable Photos

Photos must correspond to the warranty claim submittal standards. Photos may be rejected for the following reasons:

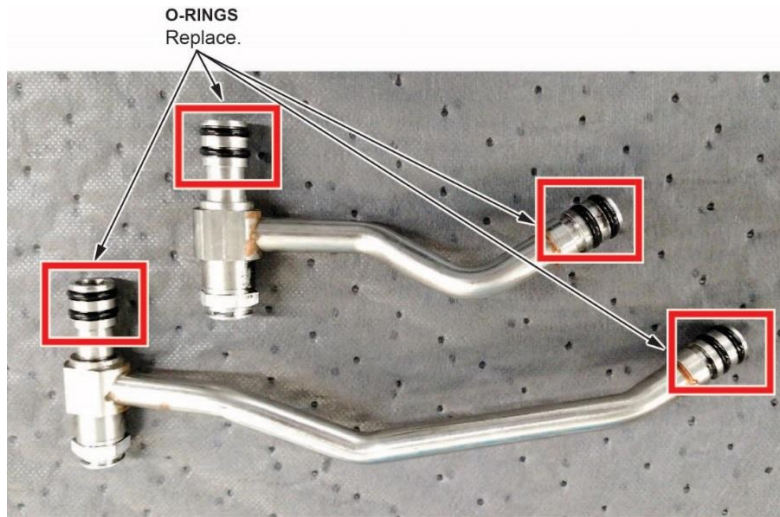
- Out of focus and unreadable
- Too small of a file size
- Too dark

15. Remove the 8 O-rings on the pipes by gently pushing the O-rings off with your fingers.

- If the vehicle is equipped with an external cooler, go to step 16.
- If the vehicle is not equipped with an external cooler, go to step 17.

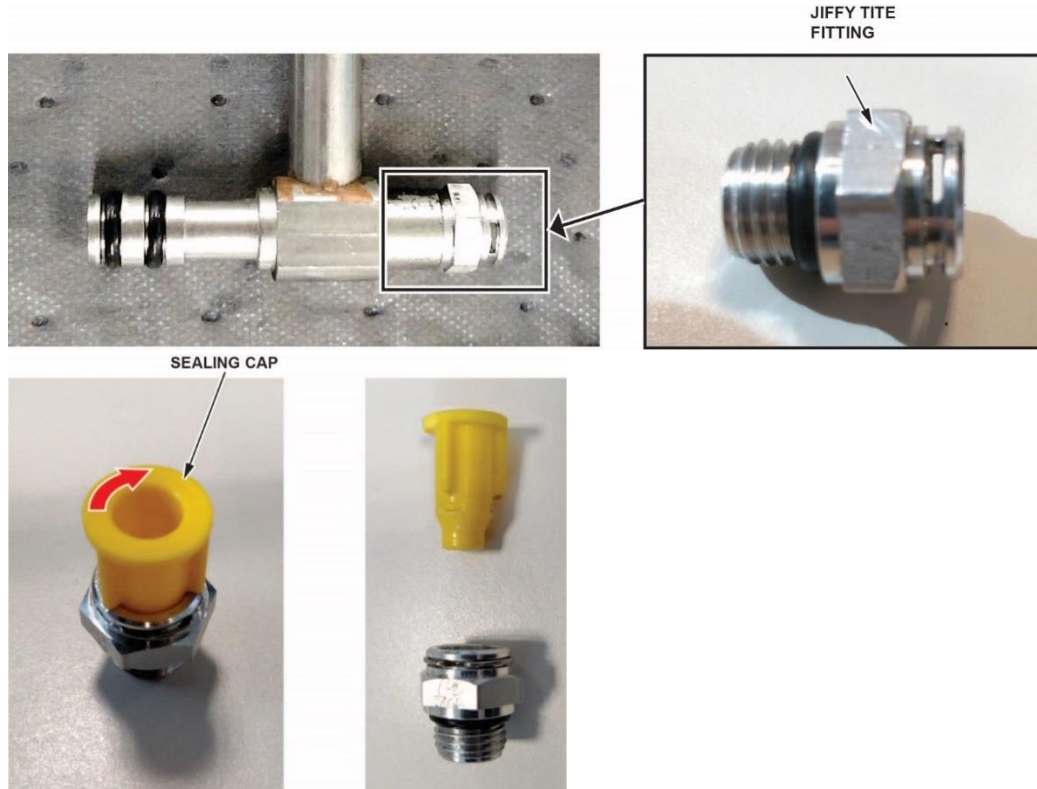
NOTE:

- Do not use picks or screwdrivers to remove the O-rings as you may damage the sealing surface.



16. Remove the Jiffy-Tite fittings.

- Remove the fitting by using two 19 mm wrenches. Use one wrench to hold the ATF tube, and remove the fitting with the other.
- Clean the pipes.  
NOTE: Make sure your hands are clean or wear gloves to avoid contaminating the Jiffy-Tite fitting.
- Install the Jiffy-Tite fitting, and torque it to **22 N·m (16 lb-ft)**.
- Remove the sealing caps by twisting ¼ turn to the right.
- **The Jiffy-Tite fitting is a one-time use only.**

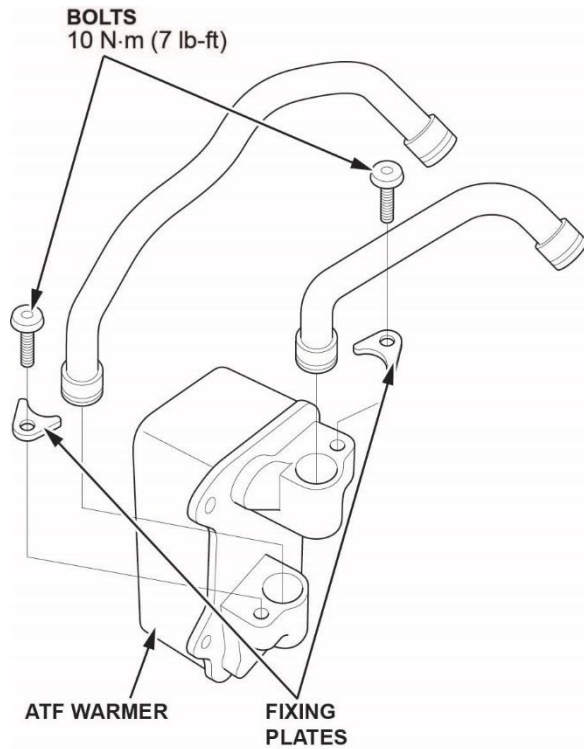


17. Clean the pipes, then install four new O-rings.

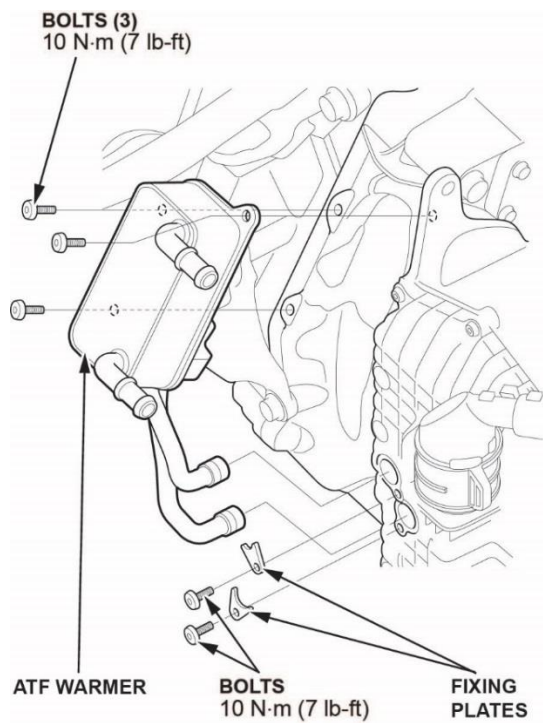
NOTE: Make sure your hands or gloves are clean to avoid contaminating the O-rings.

18. Coat the O-rings with ATF 3.1.

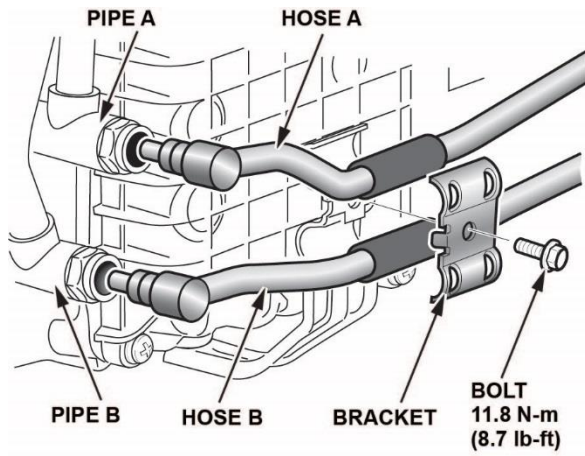
19. Install the original ATF warmer pipes onto the new transmission warmer using the fixing plates. Torque the bolts to **10 N·m (7 lb-ft)**.



20. Install the new transmission warmer to the transmission. Install the ATF warmer pipes using fixing plates. Torque the bolts to **10 N·m (7 lb-ft)**.



21. Check to see if the vehicle also overheated by checking the client responses on the RO.
- If the engine did not overheat and has an accessory external ATF cooler, go to step 22.
  - If the engine **did not overheat** and **does not** have an external ATF cooler, go to step 23.
  - If the engine overheated, go to [REPAIR PROCEDURE B](#).
22. Install hose A to line A and hose B to line B as shown.



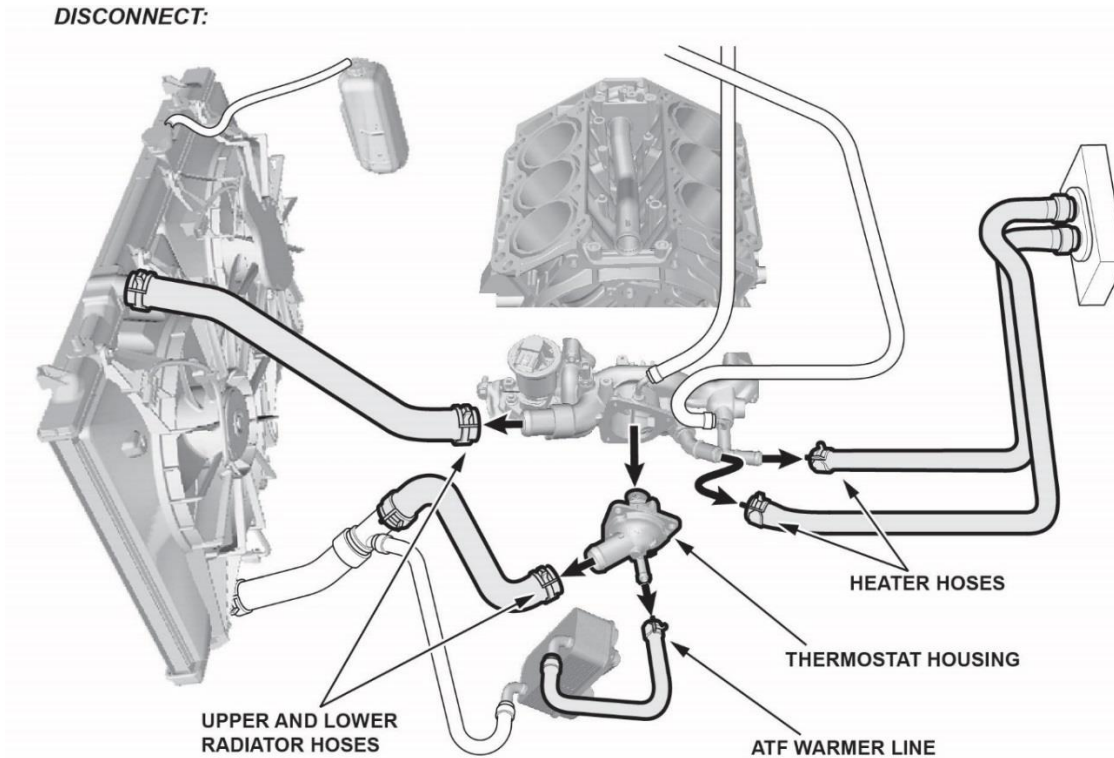
23. Install the connector bracket.
24. Go to [REPAIR PROCEDURE A](#).

## REPAIR PROCEDURE A

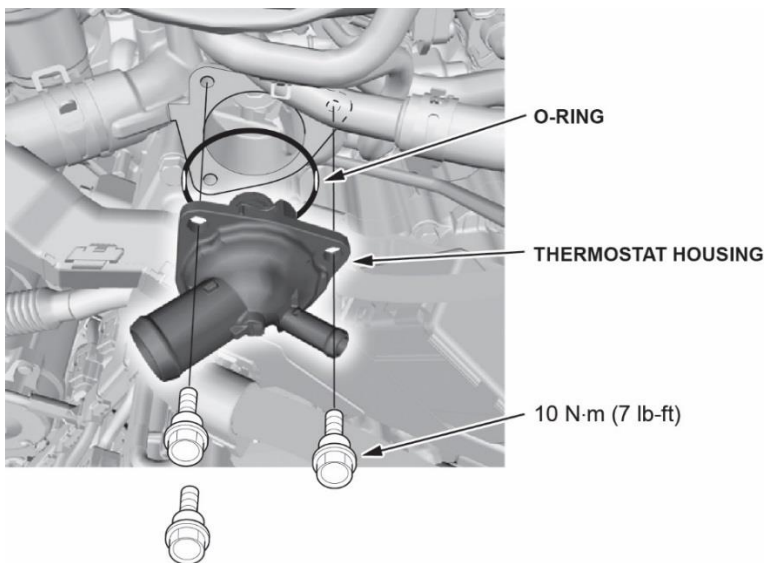
### NOTE:

- Use this procedure only if the engine did not overheat. If the engine overheated, go to REPAIR PROCEDURE B.
  - Fill in the flush work sheet (see page 70), and attach it to the RO.
1. Disconnect the upper and lower radiator hoses at the engine.

### DISCONNECT:

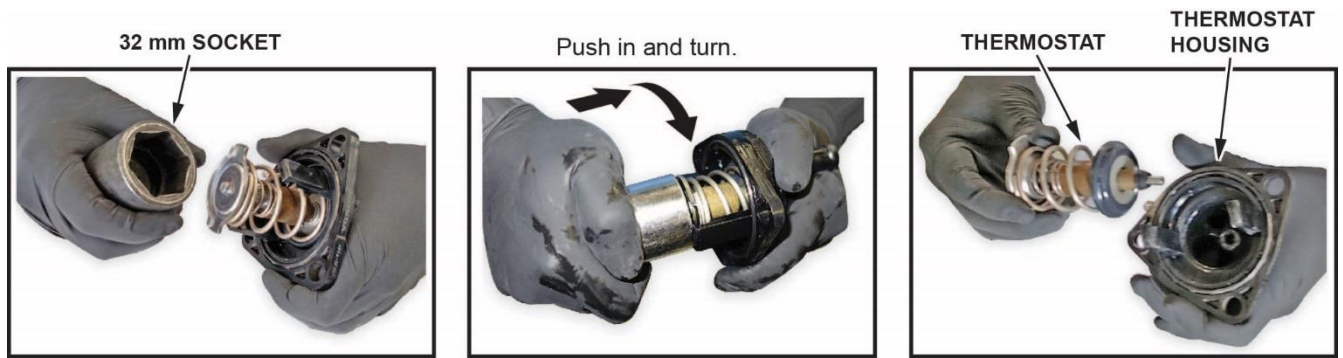


2. Disconnect the two heater hoses at the engine.
3. Disconnect the ATF transmission warmer line (coolant).
4. Remove the thermostat housing.

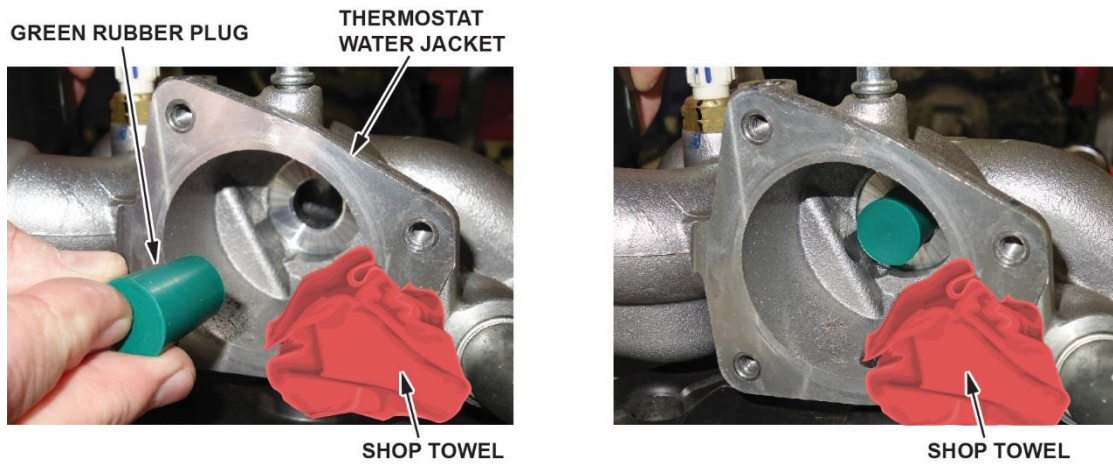




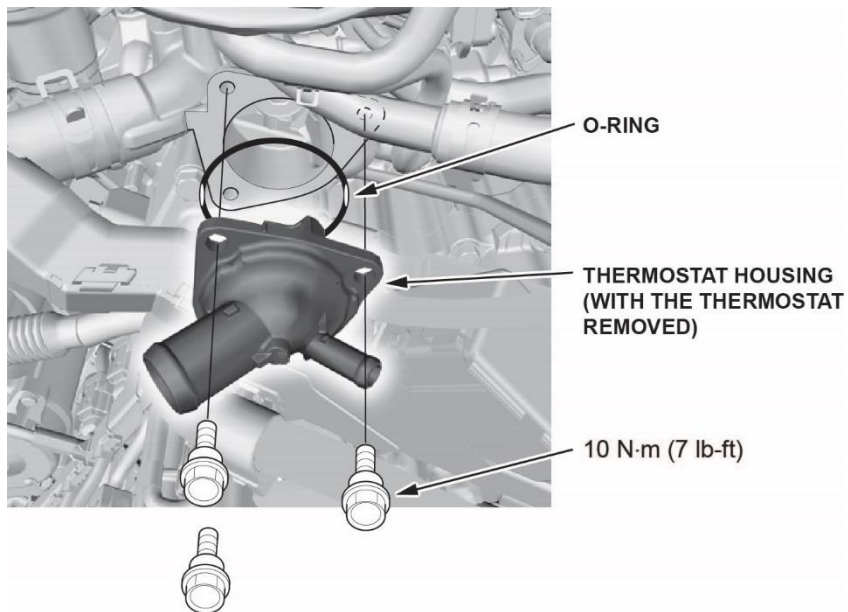
5. Remove the thermostat from the housing using a 32 mm socket. Push in on the thermostat, and twist the socket. Once the thermostat has released from the housing, remove the thermostat.



6. Install the green rubber plug from the coolant flush kit into the thermostat water jacket as shown. To prevent the plug from falling into the water passage, cover the opening with a shop towel.



7. Remove the shop towel, and install the thermostat housing without the thermostat.

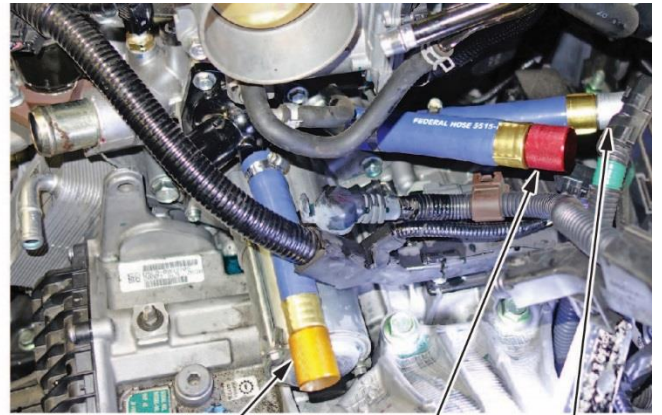


8. Using the three colored plugs from the flush kit, cap off both heater hoses and the ATF transmission warmer line as shown.



ATF TRANSMISSION  
WARMER LINE

HEATER HOSES



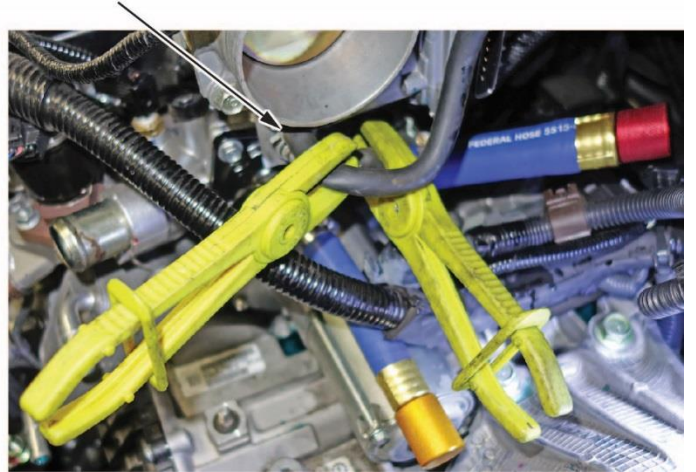
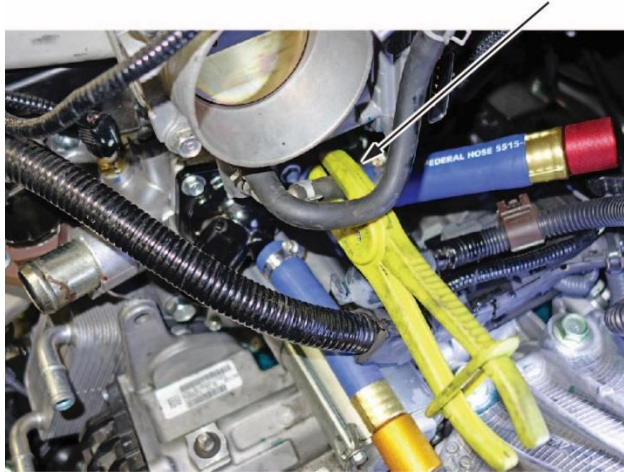
YELLOW PLUG  
(ATF WARMER LINE)

RED PLUG  
(HEATER  
HOSE)

SILVER PLUG  
(HEATER  
HOSE)

9. Using commercially available clamps, clamp the throttle body coolant lines as shown.

Clamp both of the throttle body coolant lines.



10. Remove the lid from the SUPPLY bucket, and install the large (1.5 in.) return hose with the T-fitting through the hole in the lid as shown.

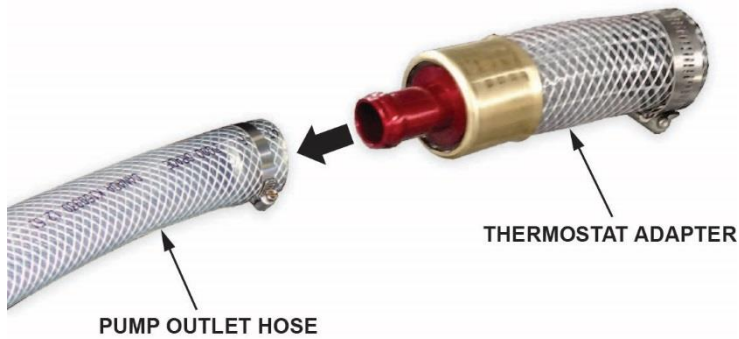


ENGINE RETURN HOSE

T-FITTING

SUPPLY BUCKET

11. Install the thermostat adaptor to the pump outlet hose.



PUMP OUTLET HOSE

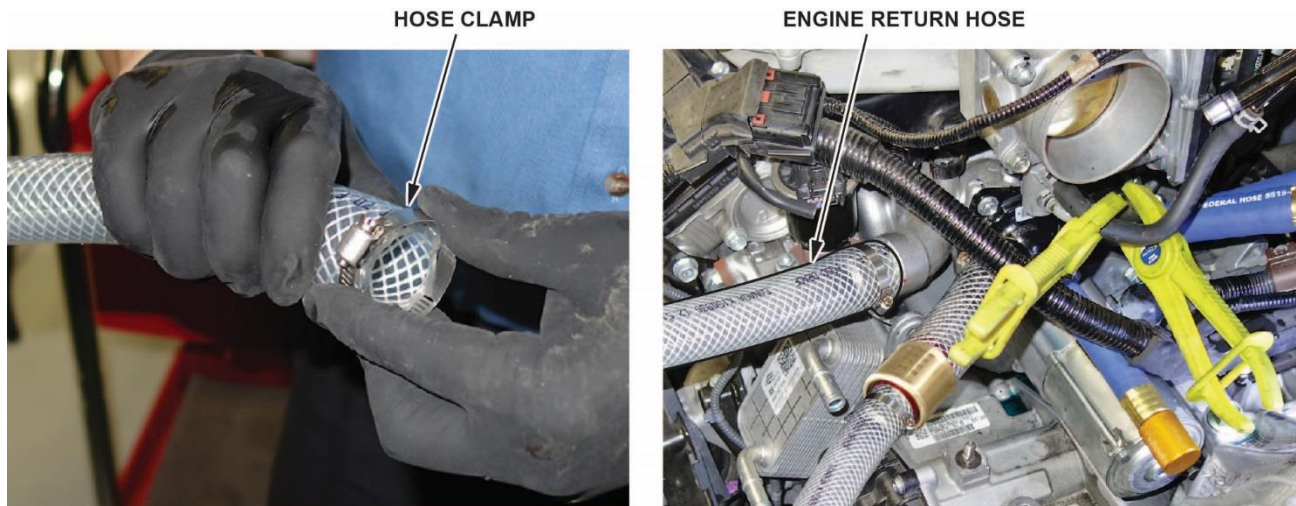
THERMOSTAT ADAPTER

12. Install the pump outlet hose onto the thermostat housing.



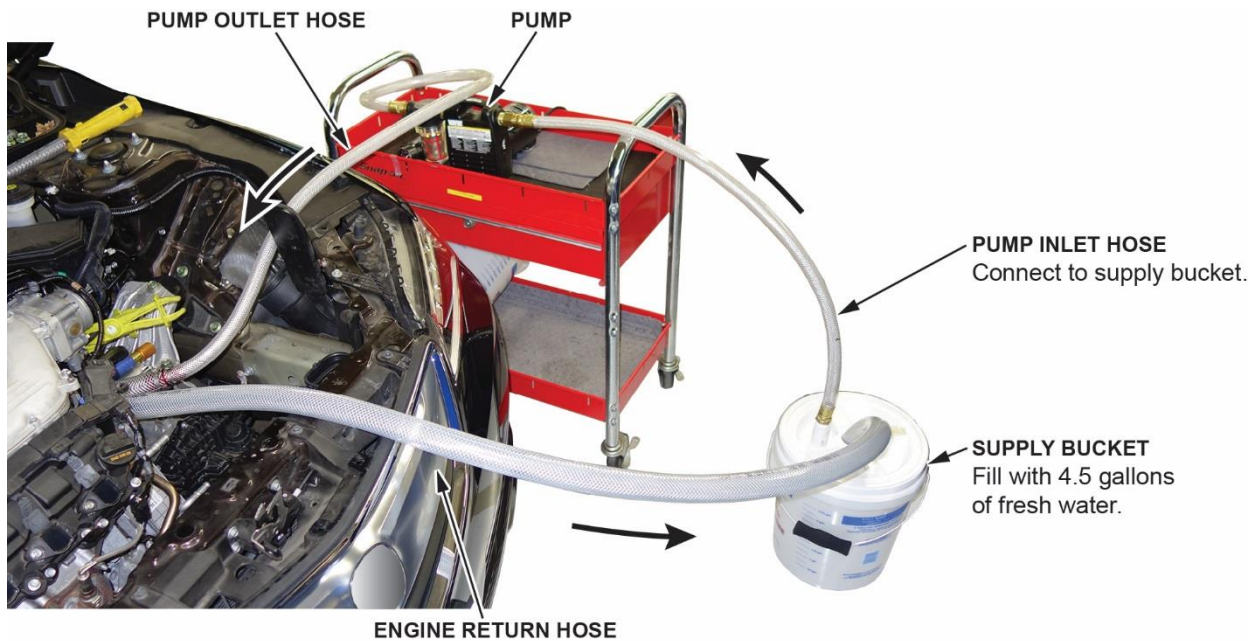
PUMP  
OUTLET  
HOSE  
ASSEMBLY

13. Install the return hose onto the water passage as shown.



14. Fill the SUPPLY bucket with 4.5 gallons of fresh water and install the lid to the bottom of the upper lip.

15. Install the pump inlet line to the SUPPLY bucket lid as shown.

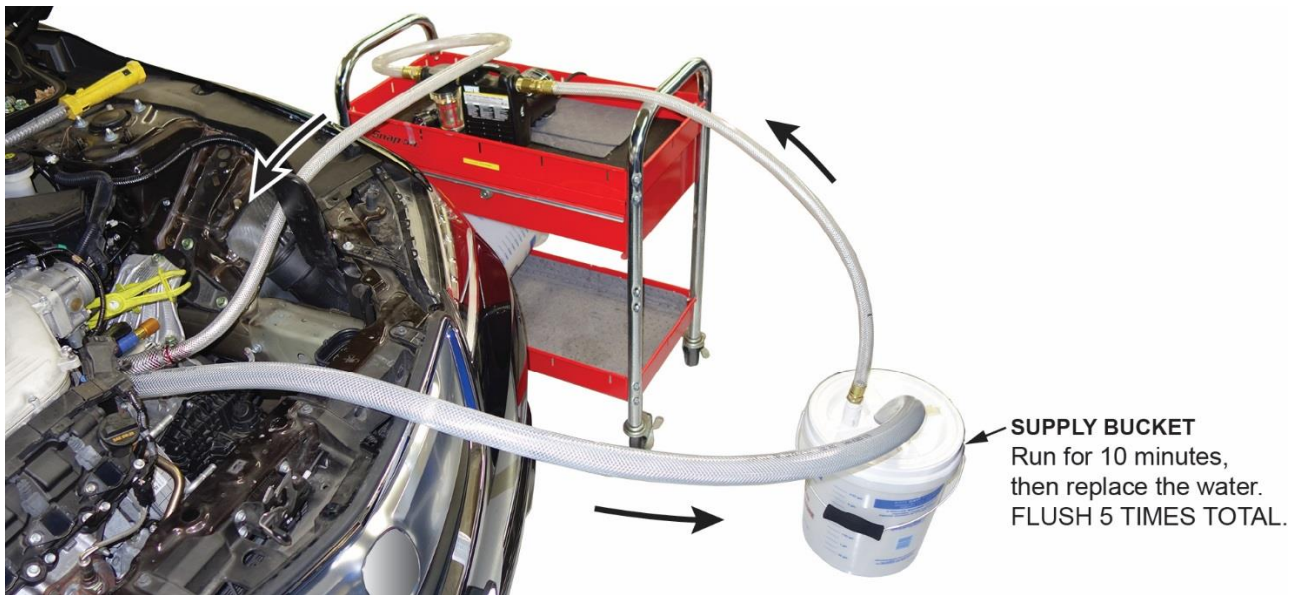


16. Turn on the pump, and let it run for 10 minutes.

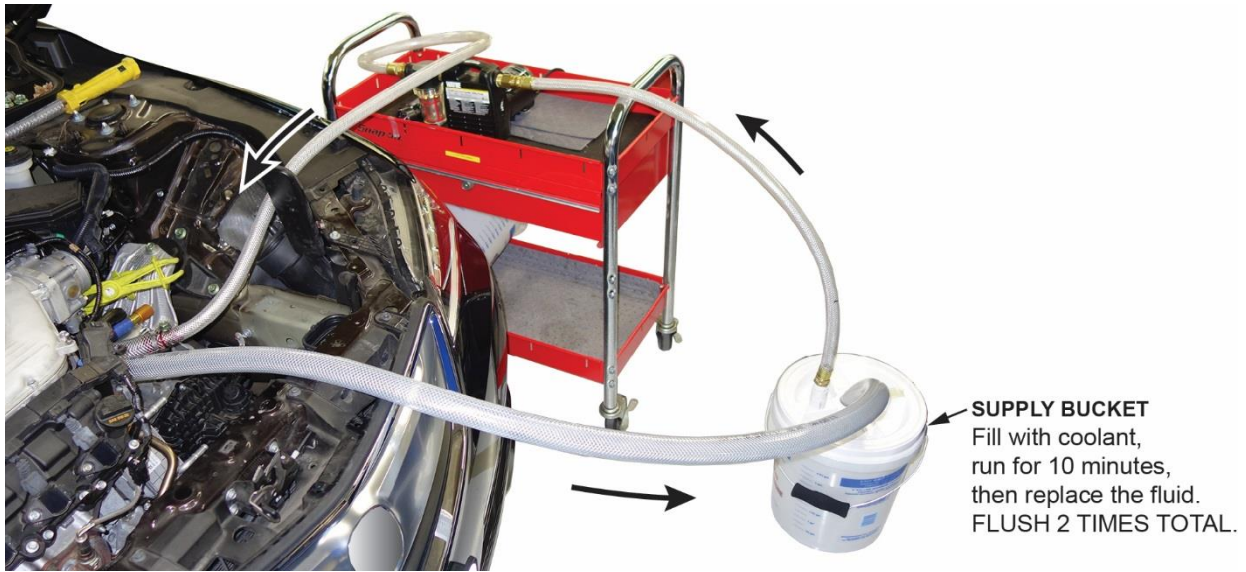
NOTE: If this is the first time using the pump, remove the priming plug, fill the pump with clean water, then reinstall the plug.



17. After 10 minutes, turn the pump off and dump all the contents of the SUPPLY bucket into the waste coolant container. Wipe off any oil residue from the bucket, refill the bucket with water, repeat the flush 4 more times (50 minutes total time flushing with water), then go to step 18.

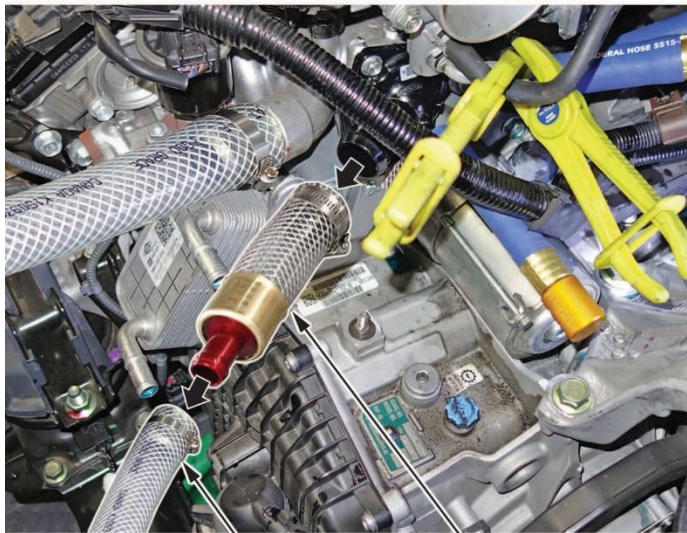


18. Substitute the water for coolant (OL999-9011A), and run the pump for 10 minutes to circulate the fluid.



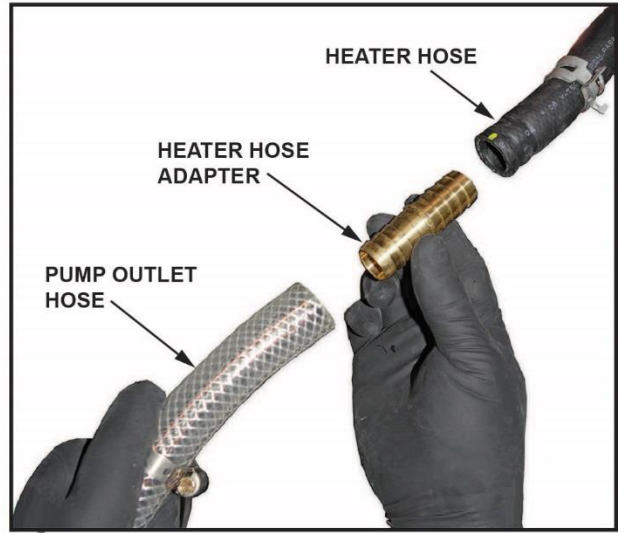
19. After 10 minutes, turn the pump off and dump all the contents of the SUPPLY bucket into the waste coolant container. Refill the SUPPLY bucket with coolant, and run the pump for 10 minutes.

20. Disconnect the pump outlet line from the engine, and remove the thermostat adaptor. Replace the outlet adaptor with the 0.75 in. heater hose adaptor.



**PUMP OUTLET HOSE**  
Disconnect.

**THERMOSTAT ADAPTER**

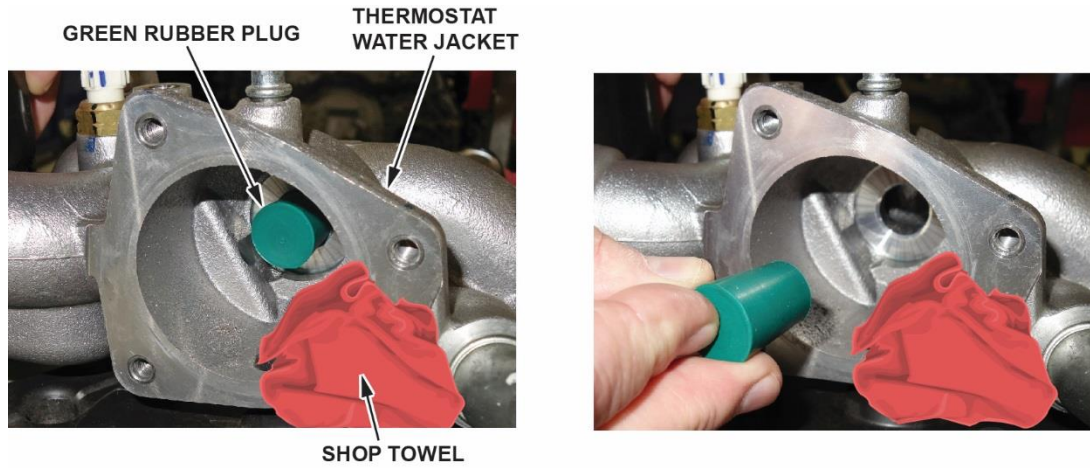


**HEATER HOSE**

**HEATER HOSE ADAPTER**

**PUMP OUTLET HOSE**

21. Remove the thermostat cover, remove the green rubber plug, and return it to the coolant flush kit. To prevent the plug from falling into the water passage, cover the passage with a shop towel.



22. Connect the pump outlet hose to the heater hose as shown.



23. Disconnect the return hose from the engine. Install the heater core return hose through the DUMP bucket lid.

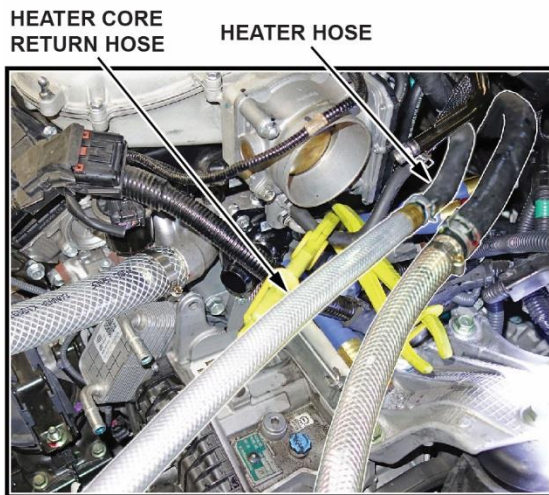


HEATER CORE RETURN HOSE

T-FITTING

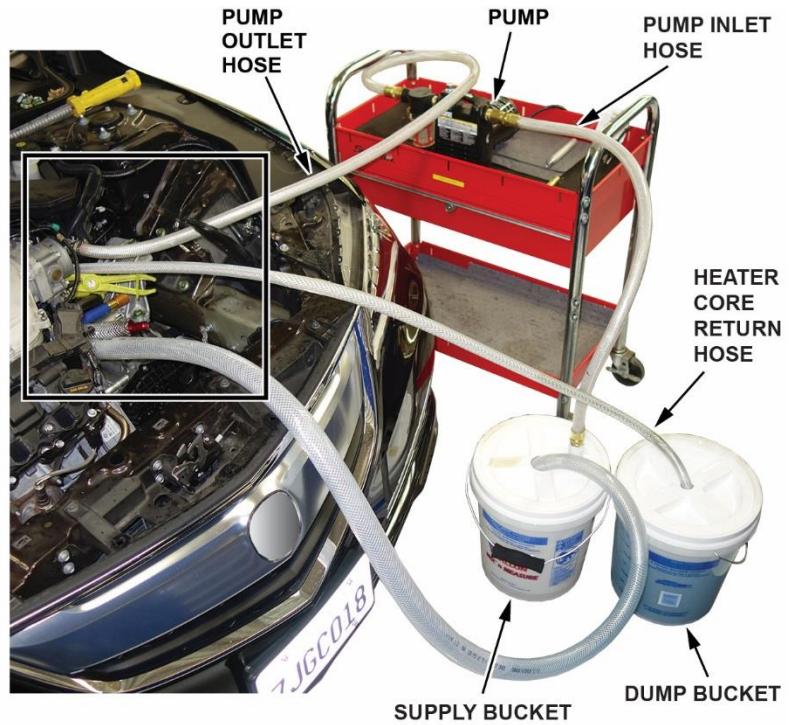
DUMP BUCKET

24. Attach the heater core return hose to the heater hose as shown.



HEATER CORE RETURN HOSE

HEATER HOSE



PUMP OUTLET HOSE

PUMP

PUMP INLET HOSE

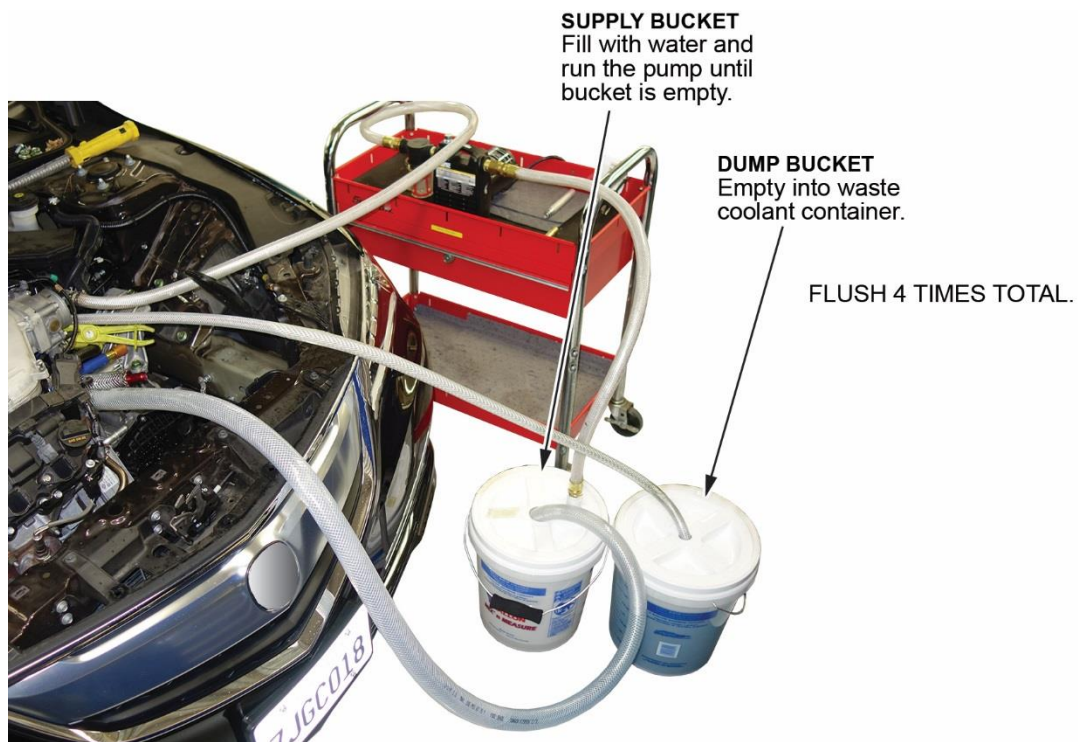
HEATER CORE RETURN HOSE

SUPPLY BUCKET

DUMP BUCKET



25. Fill the SUPPLY bucket with water and run the pump until the SUPPLY bucket is empty.



26. Empty the DUMP bucket into the waste coolant container.

27. Repeat the flush (steps 25 and 26) 3 more times.

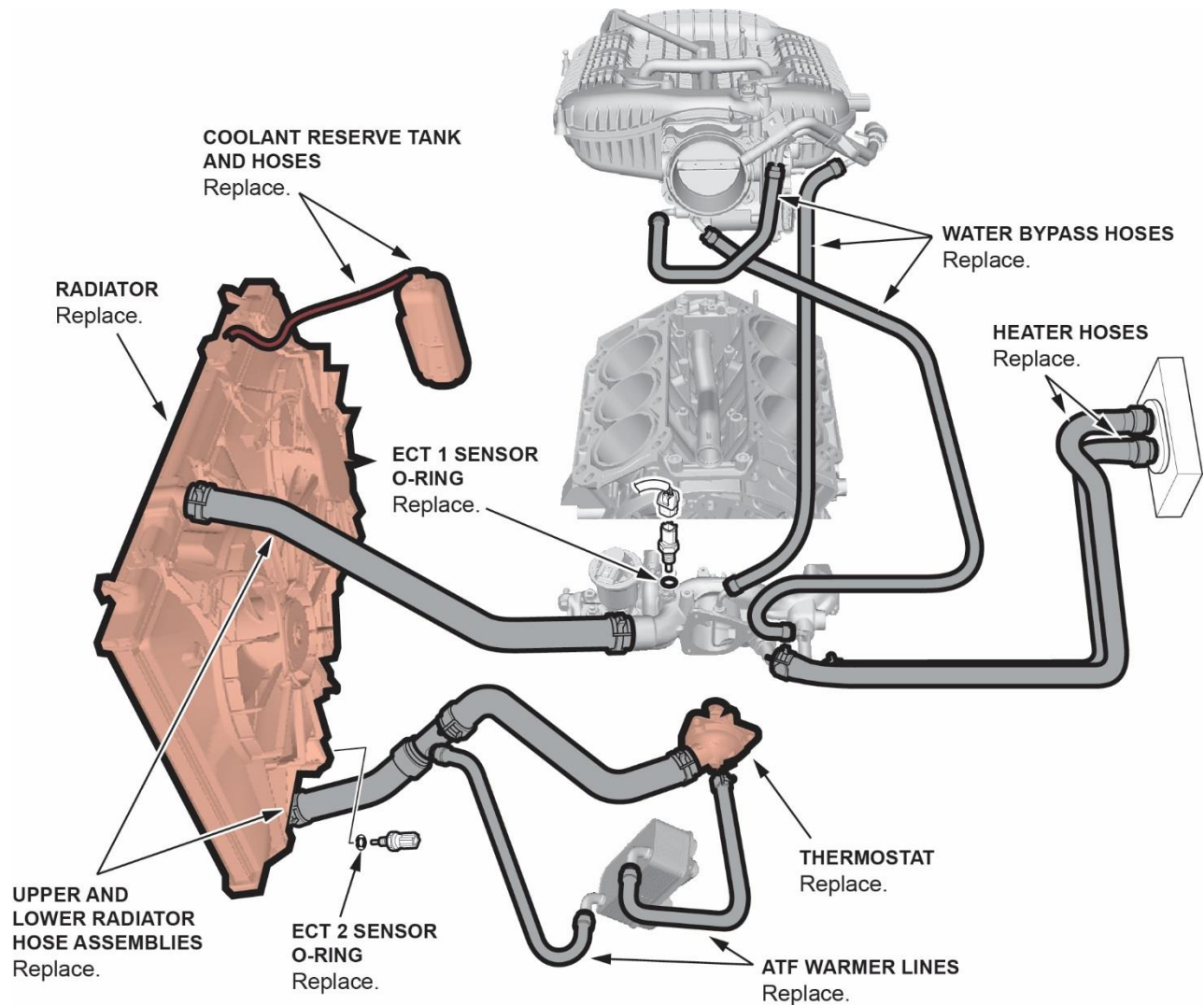
28. Empty the DUMP bucket into the waste coolant container, and wipe off any oil residue from the bucket.

29. Remove the pump and return hoses, clamps from the throttle body hoses and the three colored plugs from the vehicle.

30. Replace the radiator, the 10 indicated coolant hoses, thermostat, coolant reserve tank and hoses, and the 2 ECT sensor (1 and 2) O-rings. Refer to the image for the location of all the components.

NOTE:

- **Make sure to remove the green rubber plug that was installed in the thermostat water jacket and return it to the flush kit.**
- **When refilling the cooling system after the flush is complete, some oil may be present in the cooling system. Thorough testing has shown the amount left over after the flush procedure is within acceptable limits provided the flush procedure was followed completely.**



31. Fill the engine with coolant.
32. Install the battery box and the 12-volt battery.
33. Install the air guide and the air cleaner.
34. Fill the engine with coolant.
35. If the transmission warmer was replaced, check the ATF and adjust as needed. Refer to the service information.
- NOTE: Make sure you use Honda ATF Type 3.1 if you have to add fluid. Using the wrong ATF can affect shift quality.
36. Check for any ATF and coolant leaks.
37. Reinstall the splash shield.

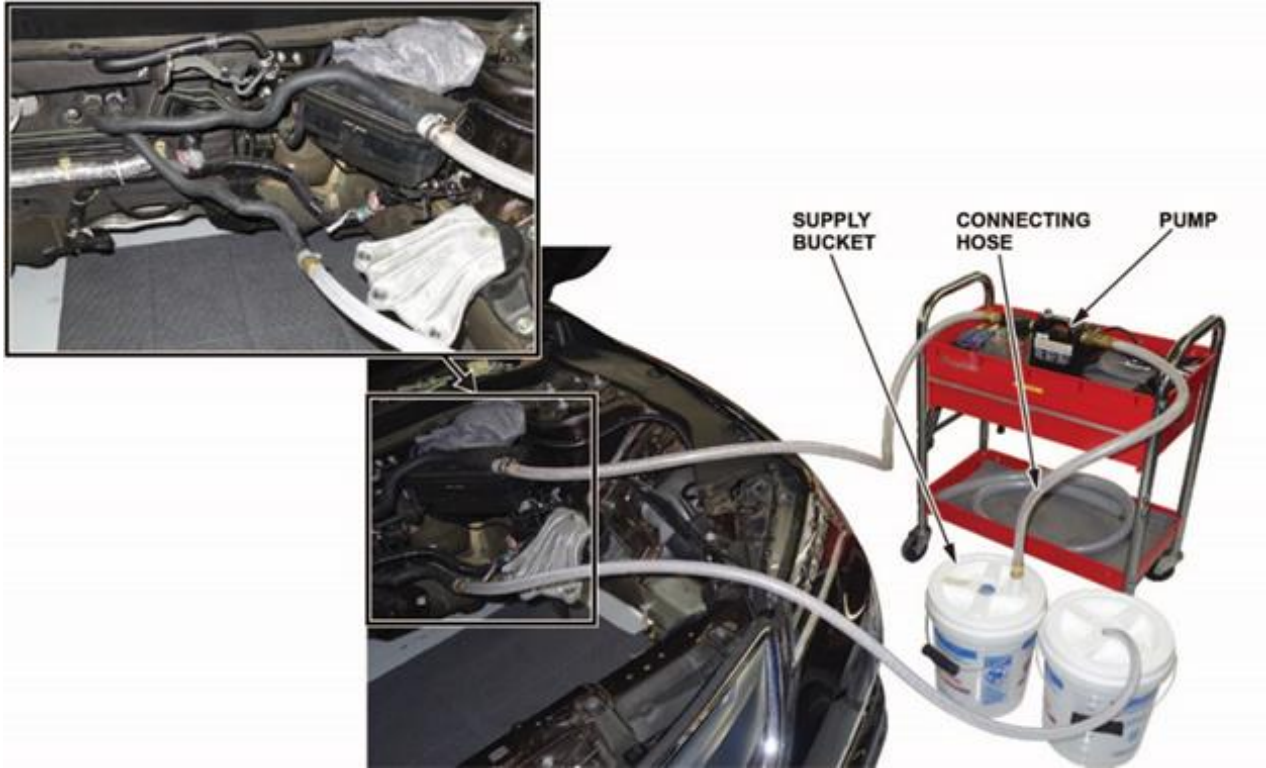
## REPAIR PROCEDURE B

### NOTE:

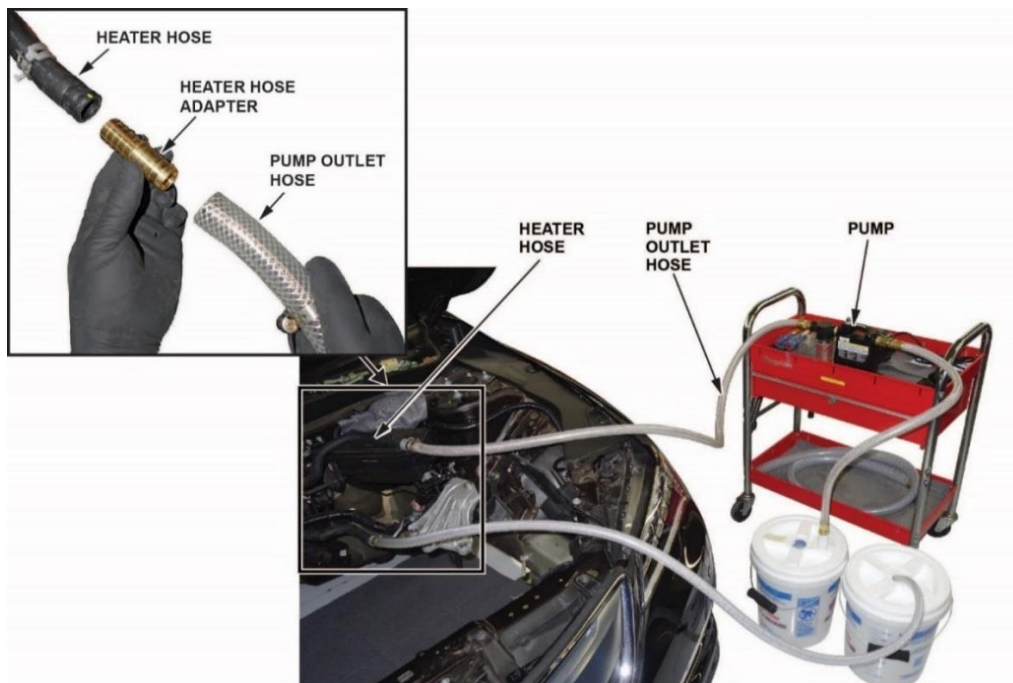
- Use this procedure only if the engine overheated. If the engine did not overheat, go to REPAIR PROCEDURE A.
  - Fill in the heater core part of the flush work sheet (see page 70), and attach it to the RO.
1. Remove the engine and transmission assembly (only the engine will be replaced). Refer to the service information.

### Heater Core Flush Procedure

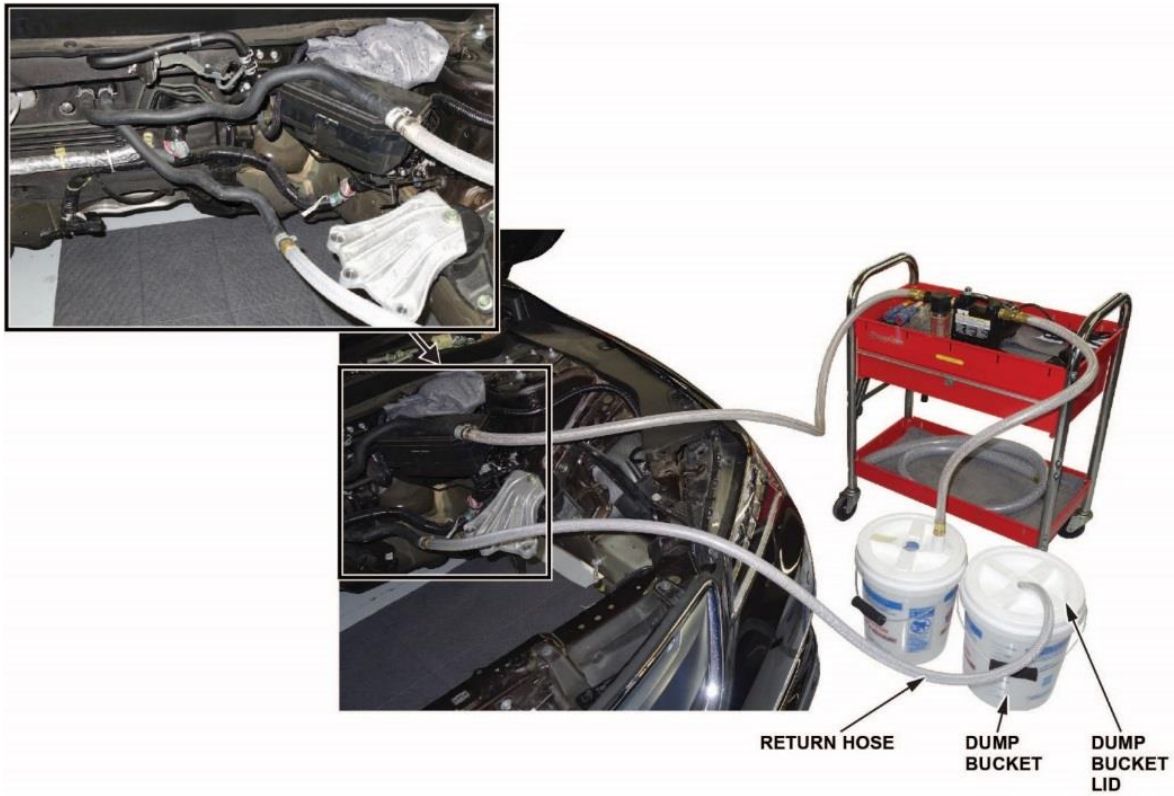
2. Connect the pump to the SUPPLY bucket.



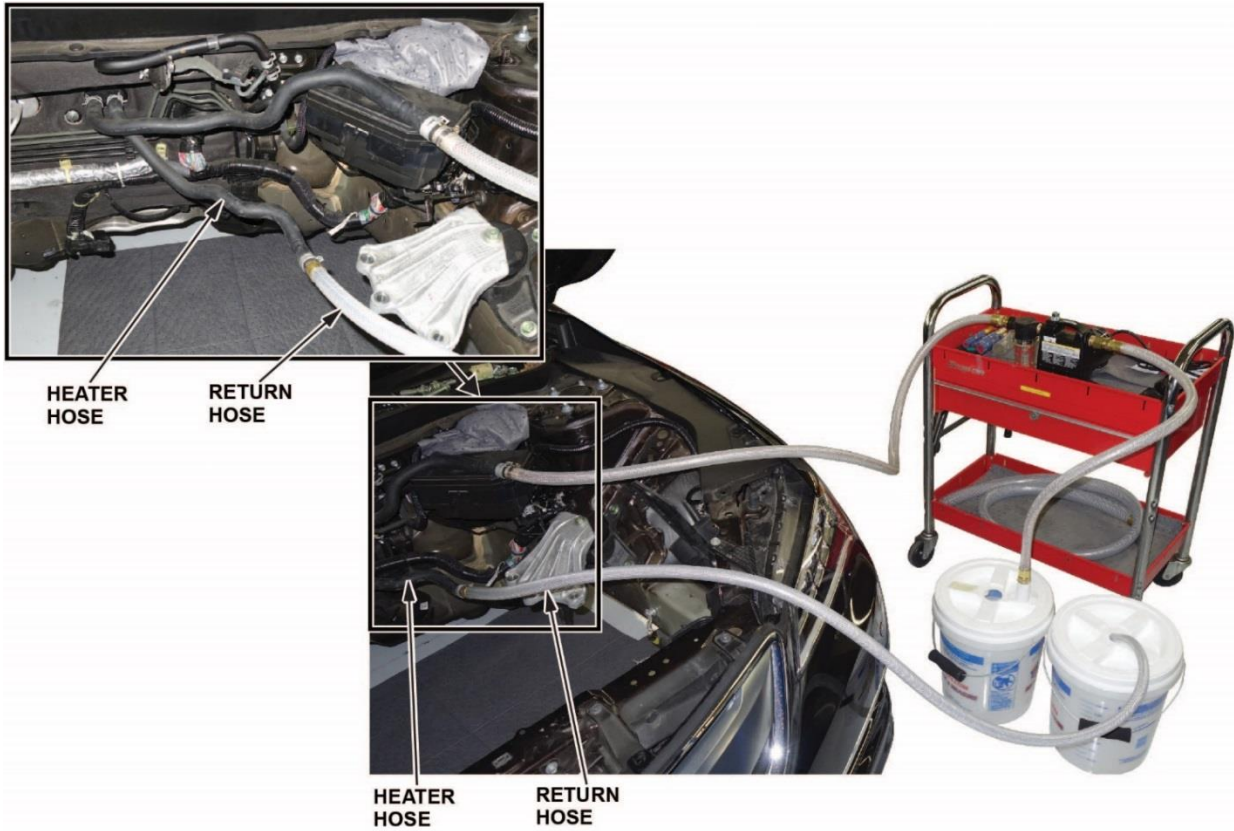
3. Make sure the 0.75 in. heater hose adaptor is installed on the pump outlet hose, then connect the pump outlet hose to the heater hose as shown.



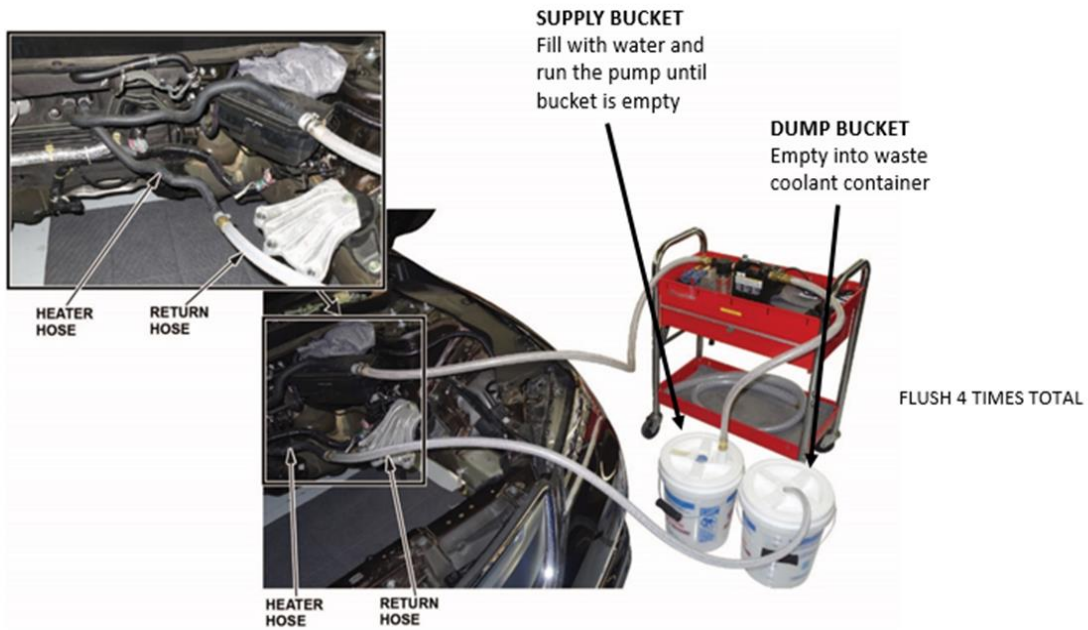
4. Install the return hose through the DUMP bucket lid, then install the lid on the bucket.



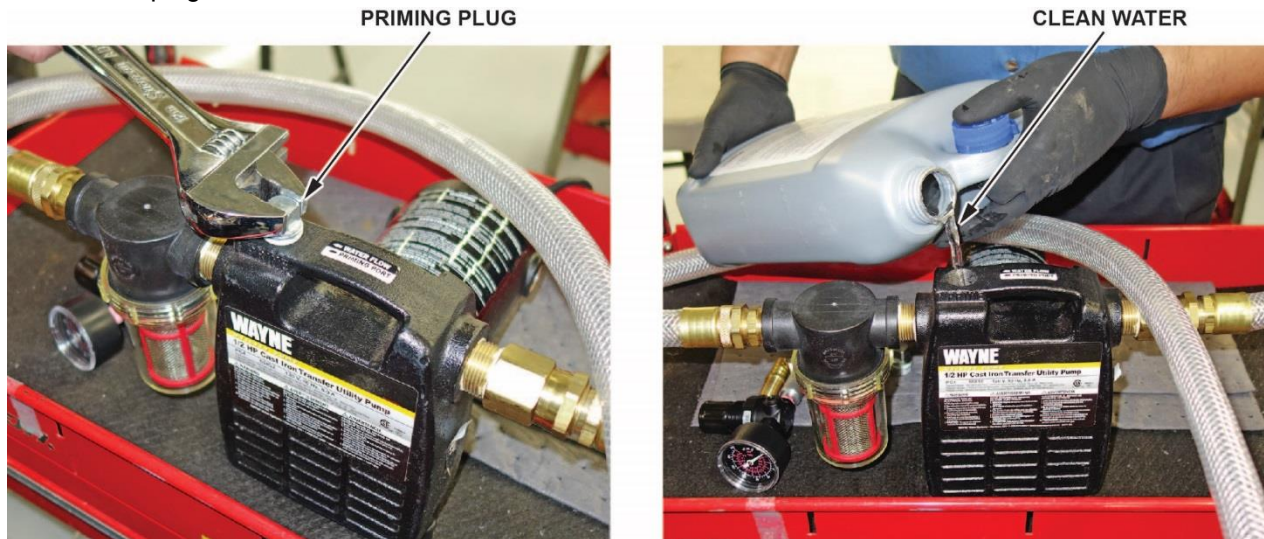
5. Attach the heater core return hose to the heater hose as shown.



6. Fill the SUPPLY bucket with water, and run the pump until the SUPPLY bucket is empty.



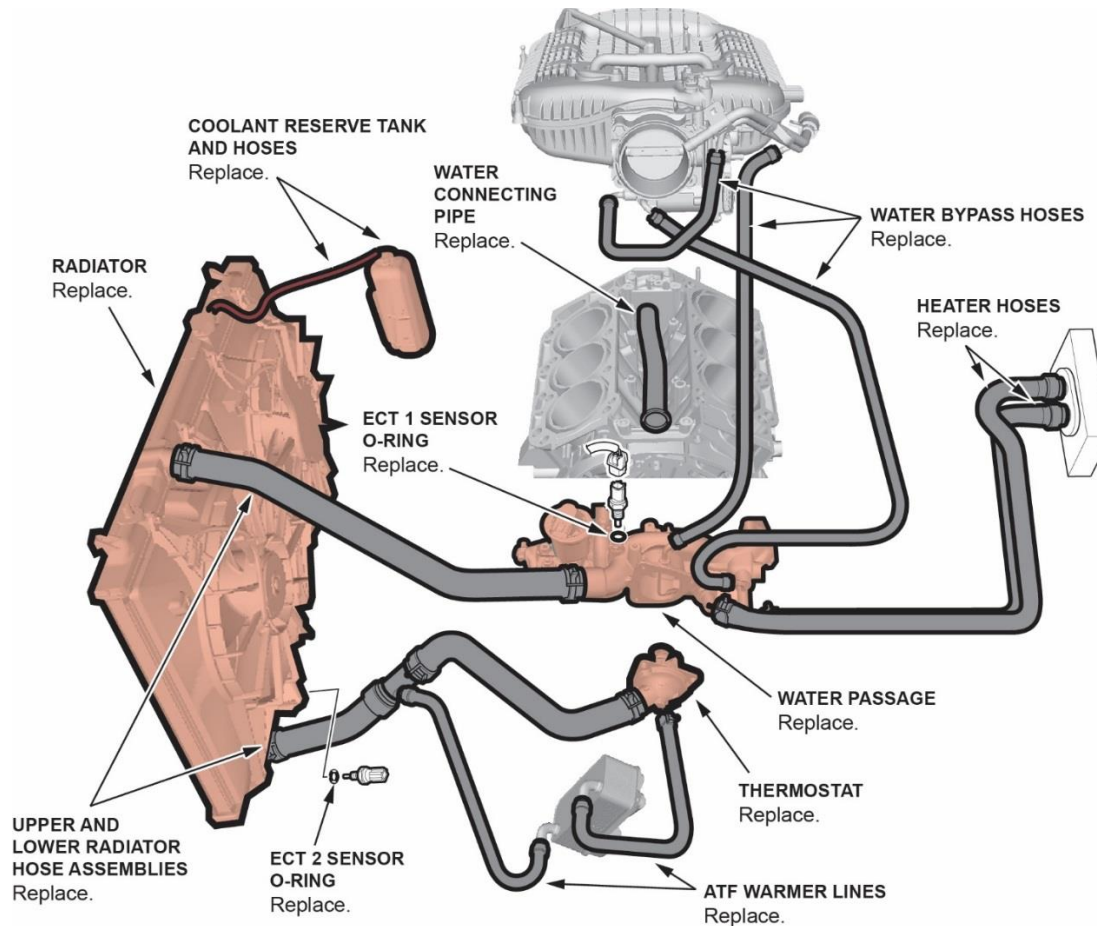
NOTE: If this is the first time using the pump, remove the priming plug, and fill the pump with clean water, then reinstall the plug.



7. Empty the DUMP bucket into the waste coolant container.
8. Repeat the flush 3 more times.
9. Empty the DUMP bucket into the waste coolant container, and wipe off any oil residue from the bucket.
10. Remove the pump and return hose from the vehicle.

## Reassemble Vehicle

11. Install a new short block and new cylinder heads including the water pipe and water passage.
12. Replace the radiator, the 10 indicated coolant hoses, the thermostat, the water passage and water connecting pipe, the coolant reserve tank, the 2 ECT sensor (1 and 2) O-Rings, and the coolant reserve tank and hoses. Refer to the image for the location of all the components.



13. Do the PCM idle learn, and CKP-pattern learn. Refer to service information.

END

## REPAIR PROCEDURE C

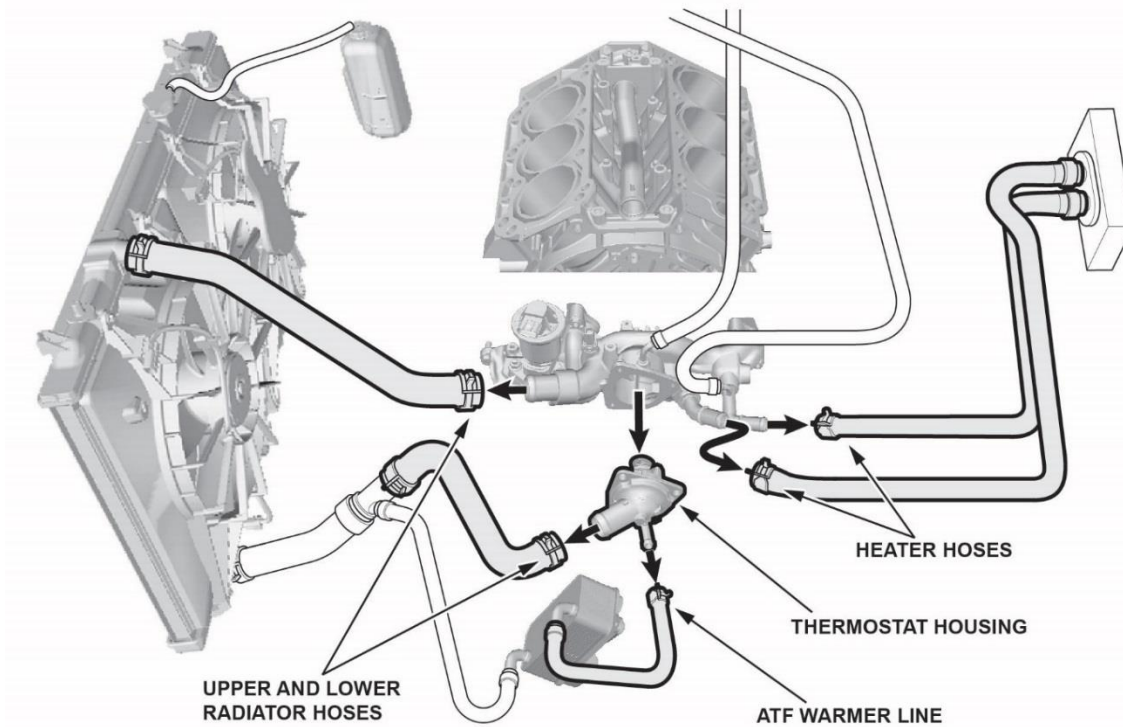
### NOTE:

- Use this procedure only if the transmission warmer failed the pressure test and the engine did not overheat. If the engine overheated, go to REPAIR PROCEDURE D.
  - Fill in the flush work sheet (see page 70), and attach it to the RO.
1. Remove the transmission.

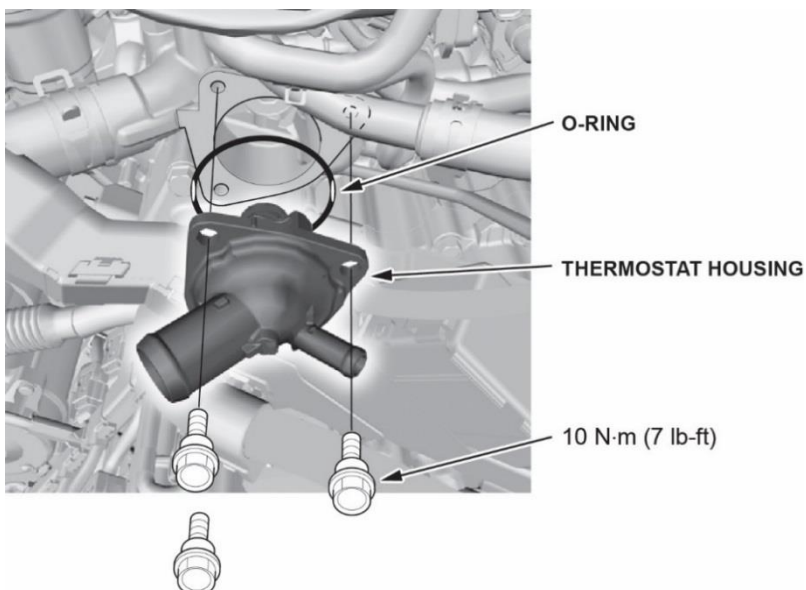
### Engine and Heater Core Flush Procedure

2. Disconnect the upper and lower radiator hoses at the engine.

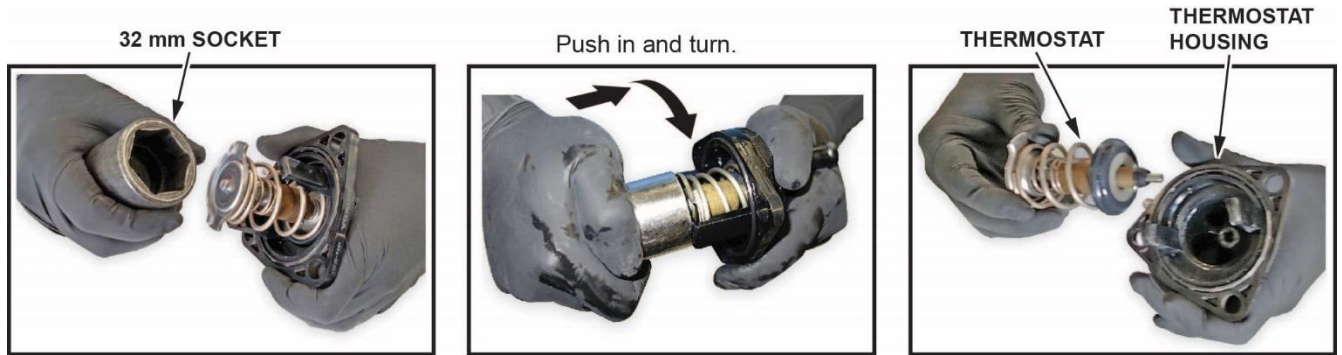
**DISCONNECT:**



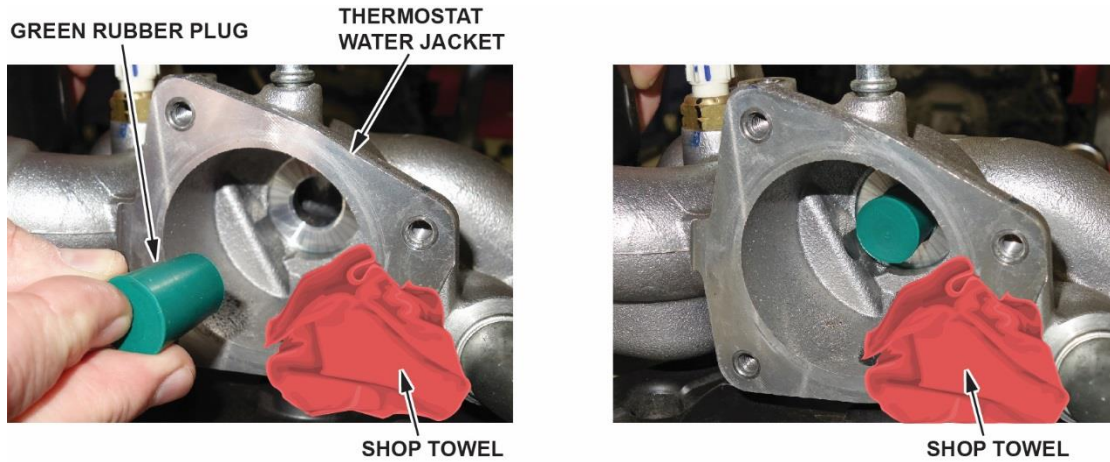
3. Disconnect the two heater hoses at the engine.
4. Disconnect the ATF warmer line (coolant).
5. Remove the thermostat housing.



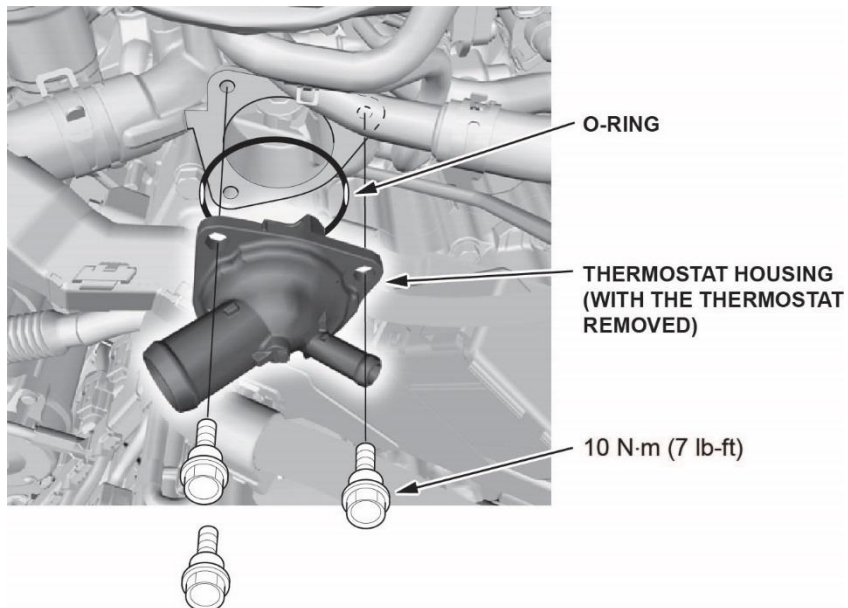
- Remove the thermostat from the housing using a 32 mm socket. Push in on the thermostat, and twist the socket. Once the thermostat has released from the housing, remove the thermostat.



- Install the green rubber plug from the coolant flush kit into the thermostat water jacket as shown. To prevent the plug from falling into the water passage, cover the opening with a shop towel.



- Remove the shop towel, and reinstall the thermostat housing without the thermostat.

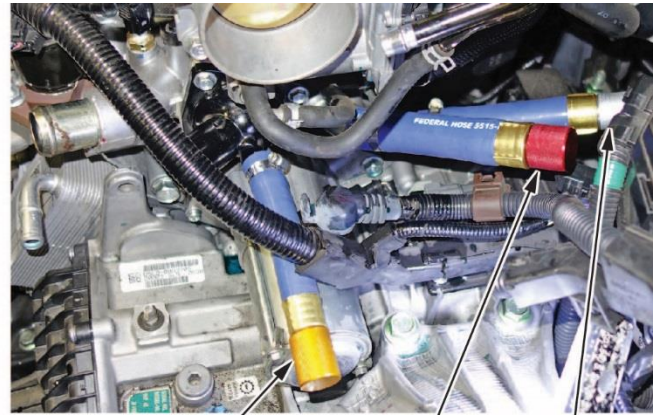




9. Using the three colored plugs from the flush kit, cap off both heater hoses and the ATF transmission warmer line as shown.



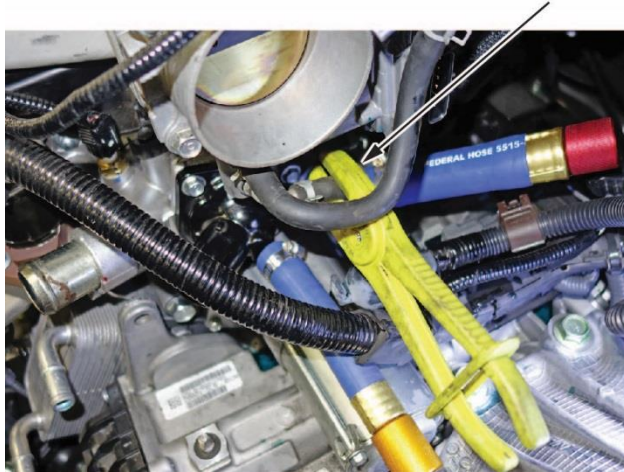
ATF TRANSMISSION WARMER LINE      HEATER HOSES



YELLOW PLUG (ATF WARMER LINE)      RED PLUG (HEATER HOSE)      SILVER PLUG (HEATER HOSE)

10. Using commercially-available clamps, clamp the throttle body coolant lines as shown.

Clamp both of the throttle body coolant lines.



11. From the bucket marked SUPPLY, remove the lid and install the large (1.5 in.) return hose with the T-fitting through the hole in the lid as shown.

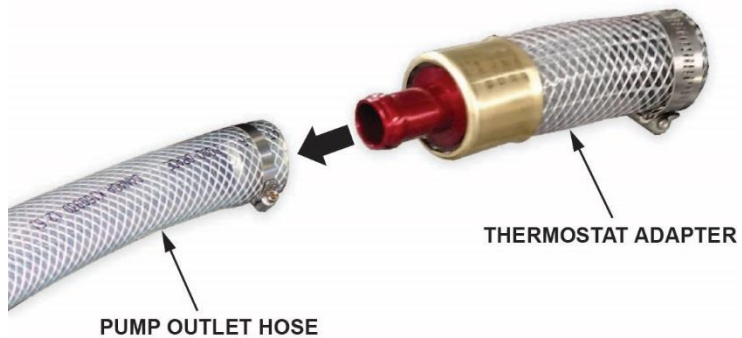


ENGINE RETURN HOSE

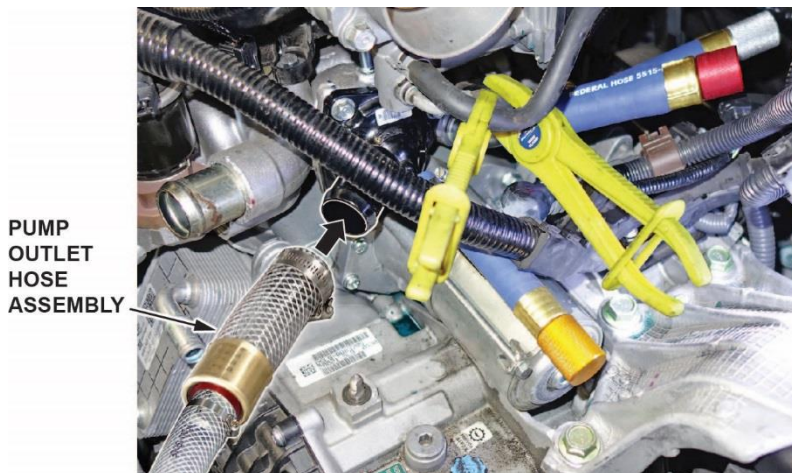
T-FITTING

SUPPLY BUCKET

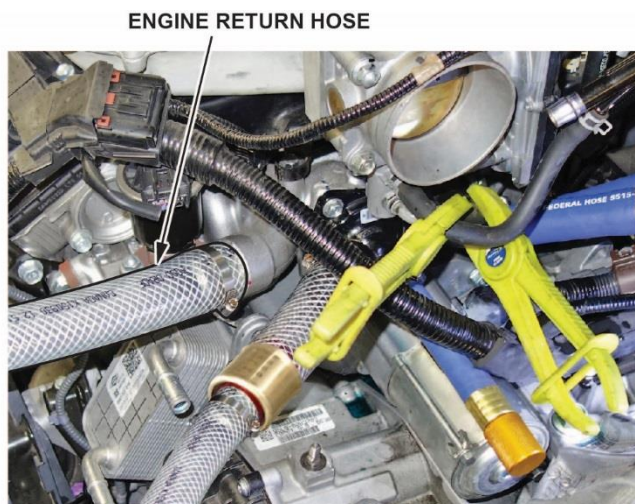
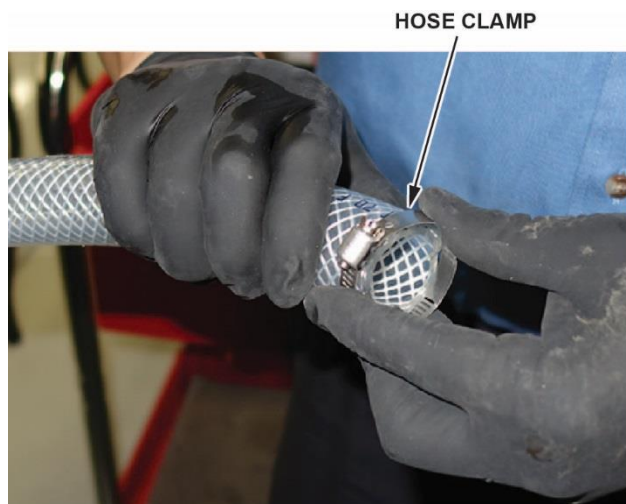
12. Install the thermostat adaptor to the pump outlet hose.



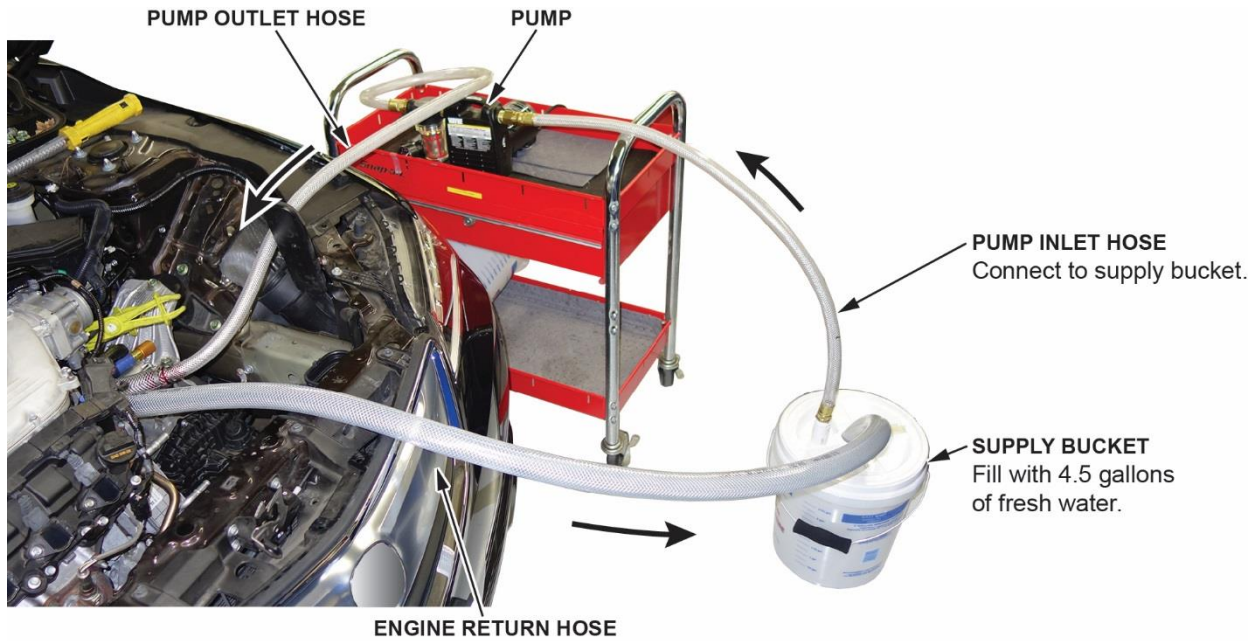
13. Install the pump outlet hose onto the thermostat housing.



14. Install the return hose onto the water passage as shown, fill the bucket with 4.5 gallons of fresh water, and install the lid.



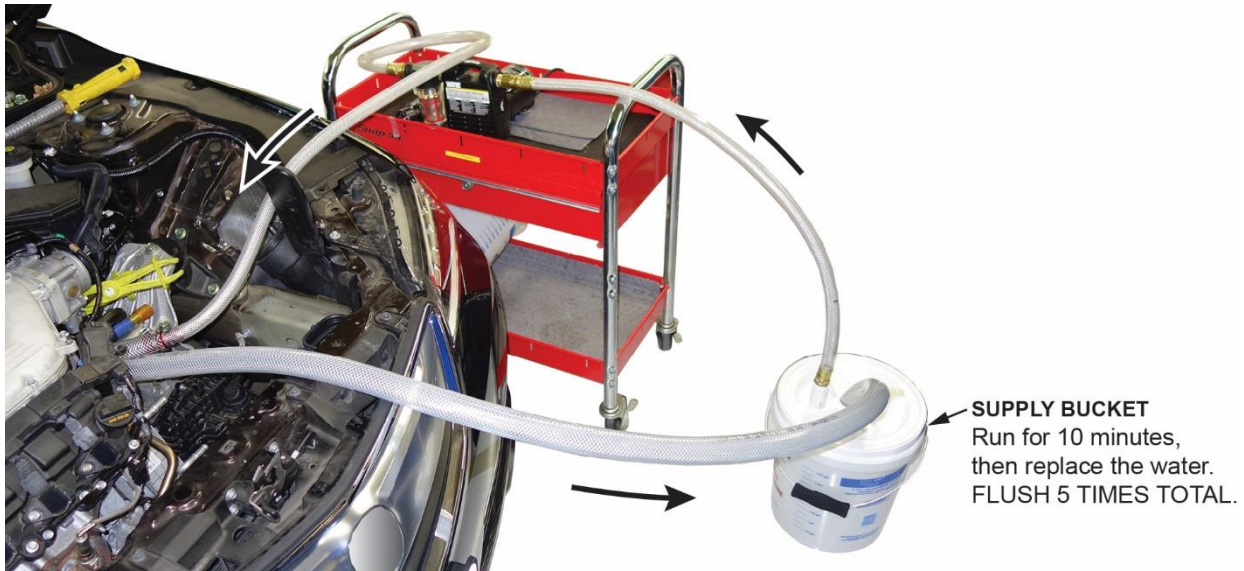
15. Install the pump inlet line to the SUPPLY bucket lid as shown.



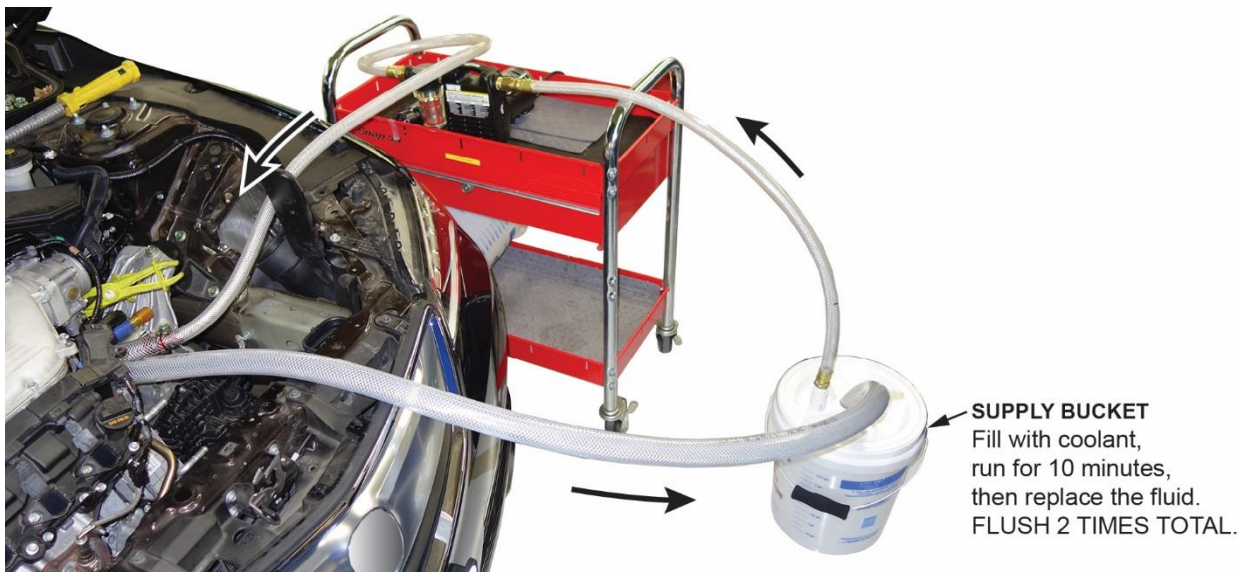
NOTE: If this is the first time using the pump, remove the priming plug, fill the pump with clean water, then reinstall the plug.



16. Turn on the pump, and let it run for 10 minutes.
17. After 10 minutes, turn the pump off and dump all the contents of the SUPPLY bucket into the waste coolant container. Wipe off any oil residue from the bucket, refill the bucket with water, then repeat the flush 4 more times (50 minutes total time flushing with water).

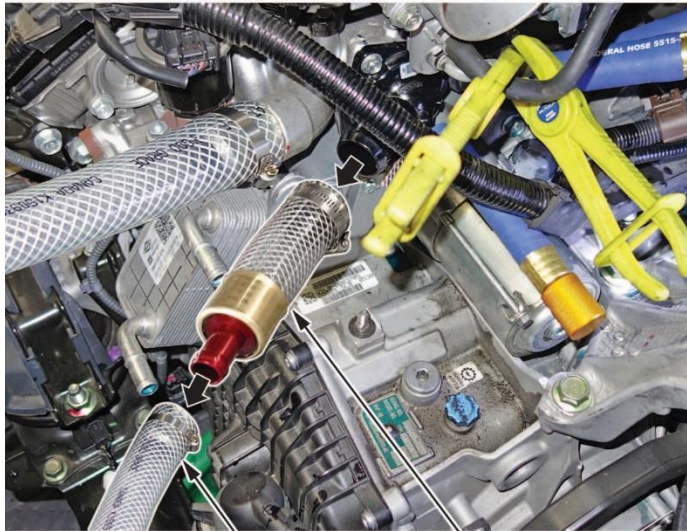


18. Substitute the water for coolant (OL999-9011A), and run the pump for 10 minutes to circulate the fluid.



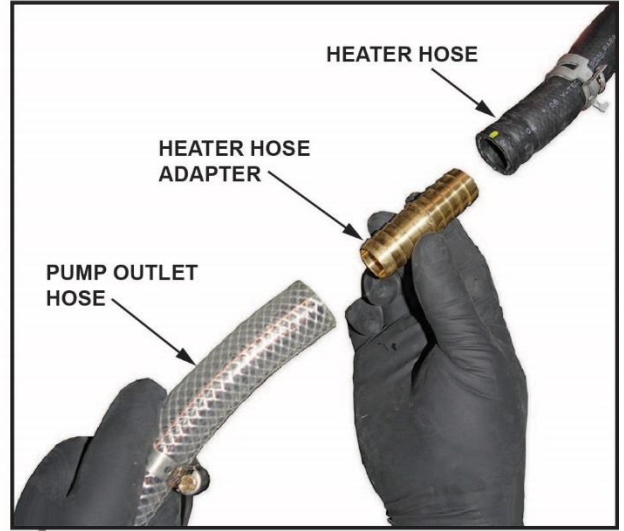
19. After 10 minutes, turn the pump off and dump all the contents of the SUPPLY bucket into the waste coolant container. Refill the SUPPLY bucket with coolant, and run the pump for 10 minutes.

20. Disconnect the pump outlet line from the engine and remove the thermostat adaptor. Replace the outlet adaptor with the 0.75 in. heater hose adaptor.



**PUMP OUTLET HOSE**  
Disconnect.

**THERMOSTAT ADAPTER**

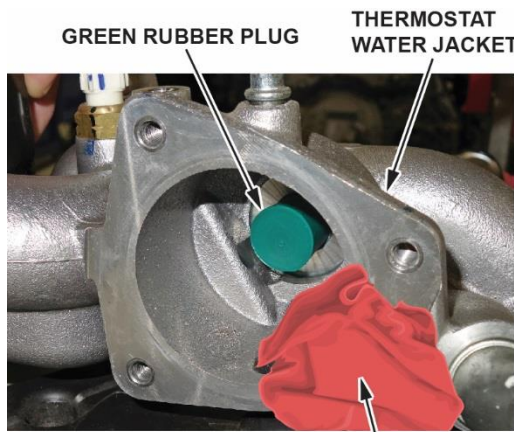


**HEATER HOSE**

**HEATER HOSE ADAPTER**

**PUMP OUTLET HOSE**

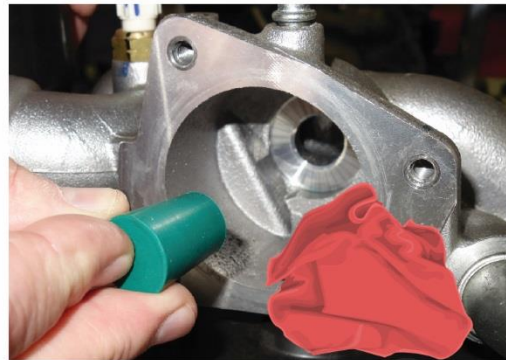
21. Remove the thermostat cover, remove the green rubber plug, and return it to the coolant flush kit. To prevent the plug from falling into the water passage, cover the passage with a shop towel.



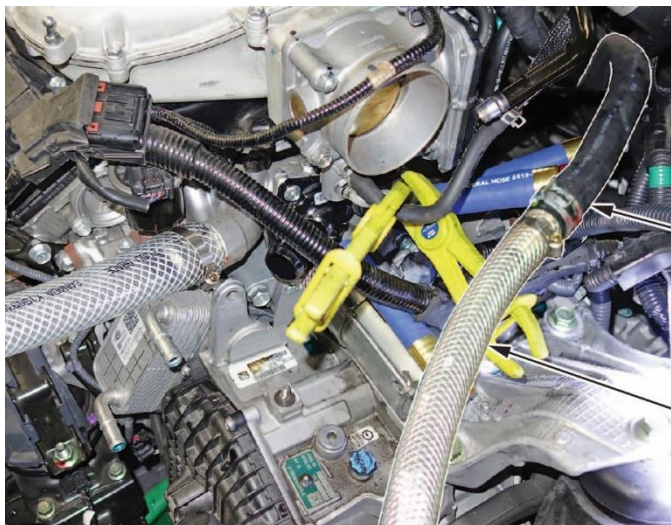
**GREEN RUBBER PLUG**

**THERMOSTAT WATER JACKET**

**SHOP TOWEL**



22. Connect the pump outlet hose to the heater hose as shown.



**HEATER HOSE**

**PUMP OUTLET HOSE**

23. Install the heater core return hose through the DUMP bucket lid.

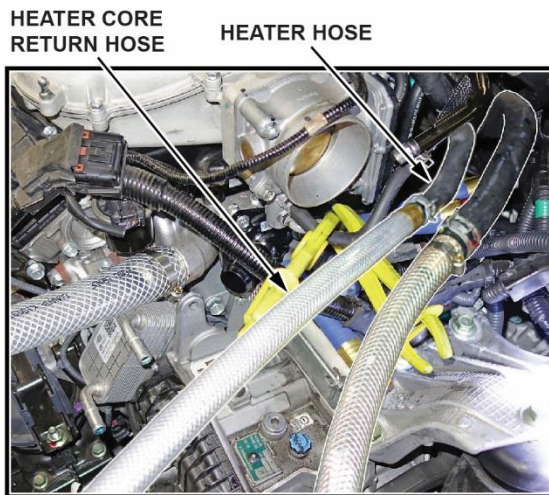


HEATER CORE RETURN HOSE

T-FITTING

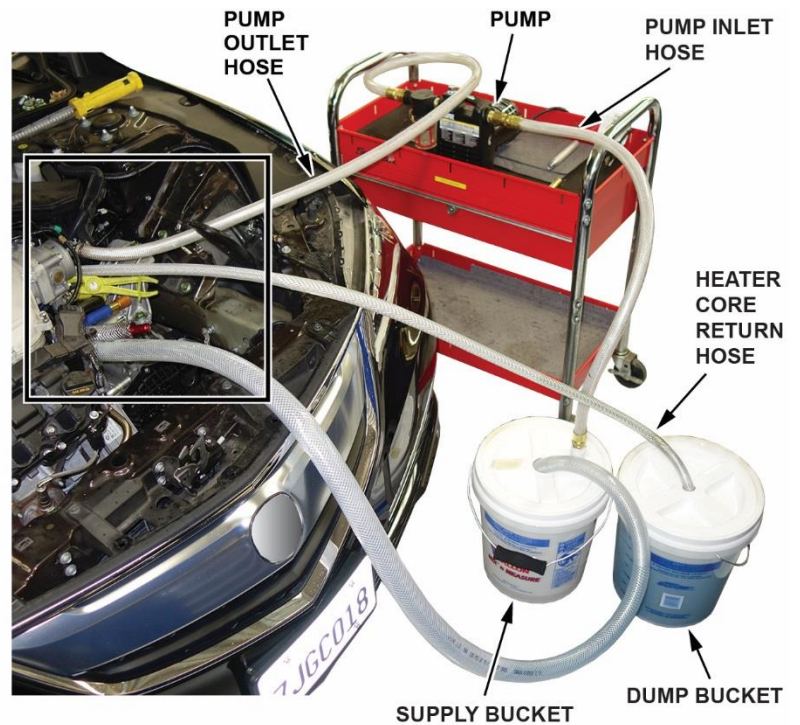
DUMP BUCKET

24. Attach the heater core return hose to the heater hose as shown.



HEATER CORE RETURN HOSE

HEATER HOSE



PUMP OUTLET HOSE

PUMP

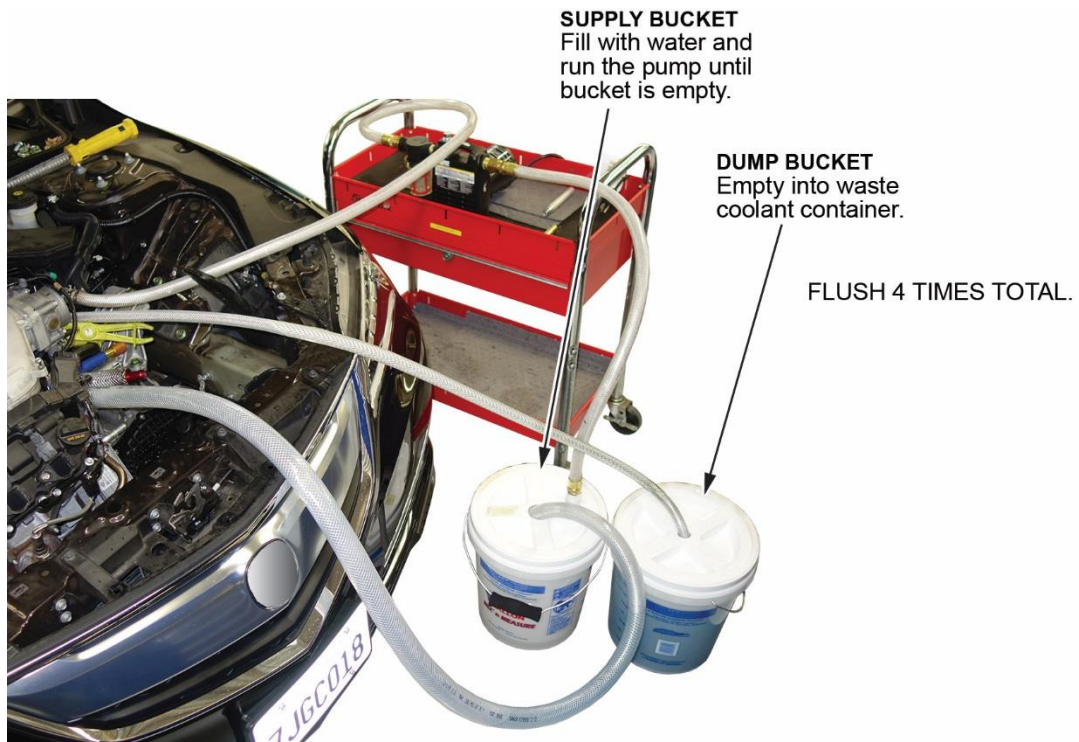
PUMP INLET HOSE

HEATER CORE RETURN HOSE

SUPPLY BUCKET

DUMP BUCKET

25. Fill the SUPPLY bucket with water, and run the pump until the SUPPLY bucket is empty.



26. Empty the DUMP bucket into the waste coolant container.

27. Repeat the flush (steps 25 and 26) 3 more times.

28. Empty the DUMP bucket into the waste coolant container and wipe off any oil residue from the bucket.

29. Remove the pump and return hoses, throttle body hose clamps and the three colored plugs from the vehicle.

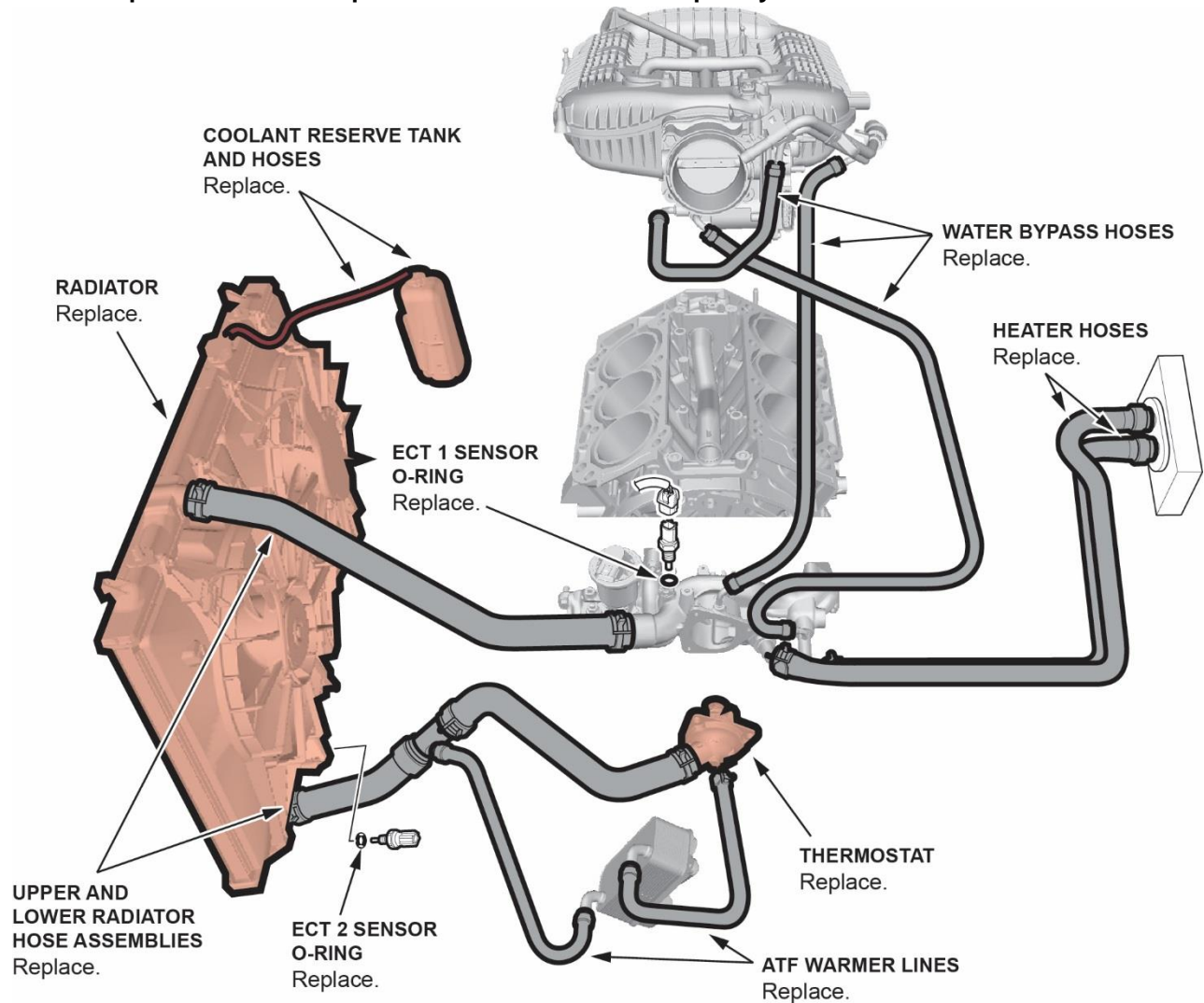
## Reassemble Vehicle

30. Replace the accessory cooler, if equipped.

31. Replace the radiator, the 10 indicated coolant hoses, thermostat, coolant reserve and hoses, and the 2 ECT sensor (1 and 2) O-rings. Refer to the image for the location of all the components.

### NOTE:

- **Make sure to remove the rubber plug that was installed in the thermostat water jacket and return it to the flush kit.**
- **When refilling the cooling system after the flush is complete, some oil may be present in the cooling system. Thorough testing has shown the amount left over after the flush procedure is within acceptable limits provided the flush procedure was followed completely.**





32. Install the remanufactured transmission. To ensure proper shift quality, update the TCM and PCM as necessary, then do the PCM idle learn, teach-in (Hydraulic Pressure Characteristic Calibration), and adaptation (see Tech2Tech listed below). Refer to the service information.

**PCM**

Trim	Program IN (or later)	Program P/N (or later)
2016 2WD Base, Technology	J6A060	37805-5J6-A060
2016 2WD AcuraWatch	J6A160	37805-5J6-A160
2016 2WD Advance	J6A460	37805-5J6-A460
2016 AWD Base, Technology	J6A260	37805-5J6-A260
2016 AWD AcuraWatch	J6A360	37805-5J6-A360
2016 AWD Advance w/Auto Stop	J6A960	37805-5J6-A960

**TCM**

Trim	Program IN (or later)	Program P/N (or later)
2016 2WD Base, Technology	NBA570	28101-5NB-A570
2016 2WD AcuraWatch	NBA670	28101-5NB-A670
2016 2WD Advance	NBA770	28101-5NB-A770
2016 AWD Base, Technology	NCA580	28101-5NC-A580
2016 AWD AcuraWatch	NCA680	28101-5NC-A680
2016 AWD Advance w/Auto Stop	NCA780	28101-5NC-A780

- Automatic Transmission Removal and Installation
- [Tech2Tech "Power Up a One-Push Start Vehicle with the i-HDS – With Replaced Components"](#)
- [Tech2Tech "9-Speed Transmission or TCM Replacement Procedure"](#)

**END**

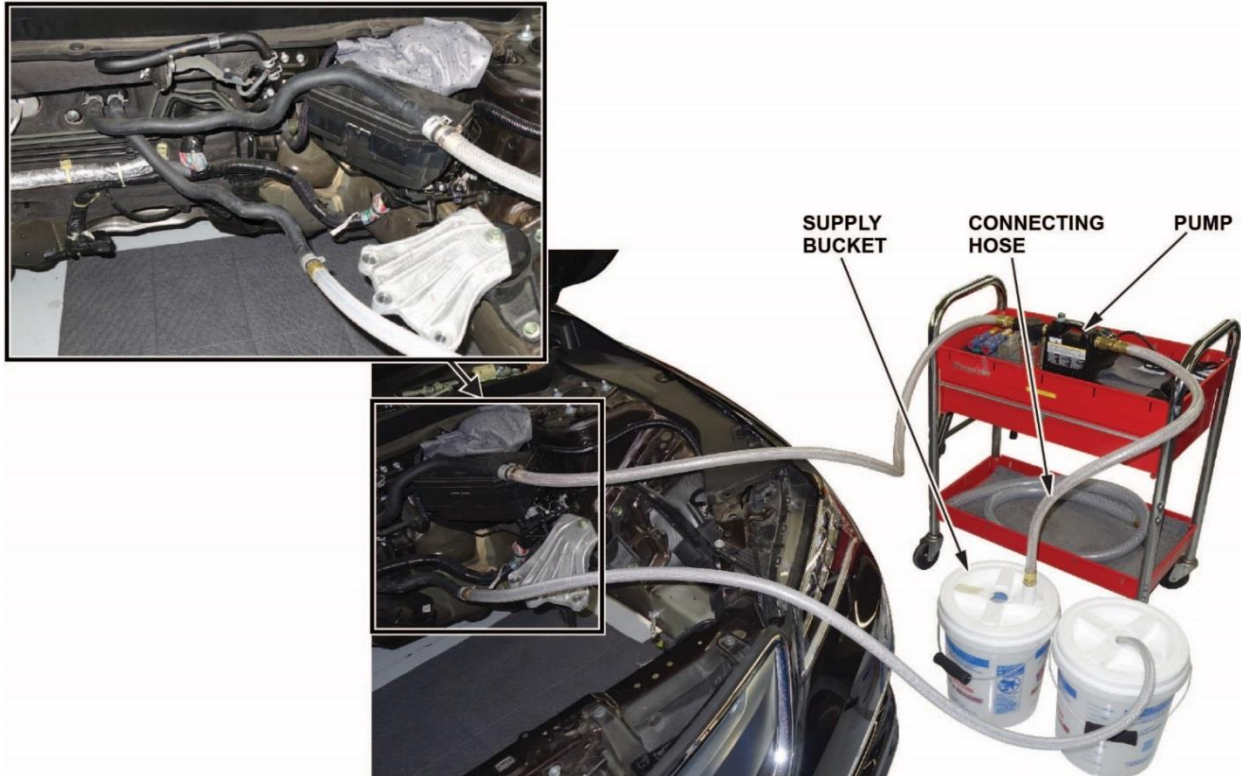
## REPAIR PROCEDURE D

### NOTE:

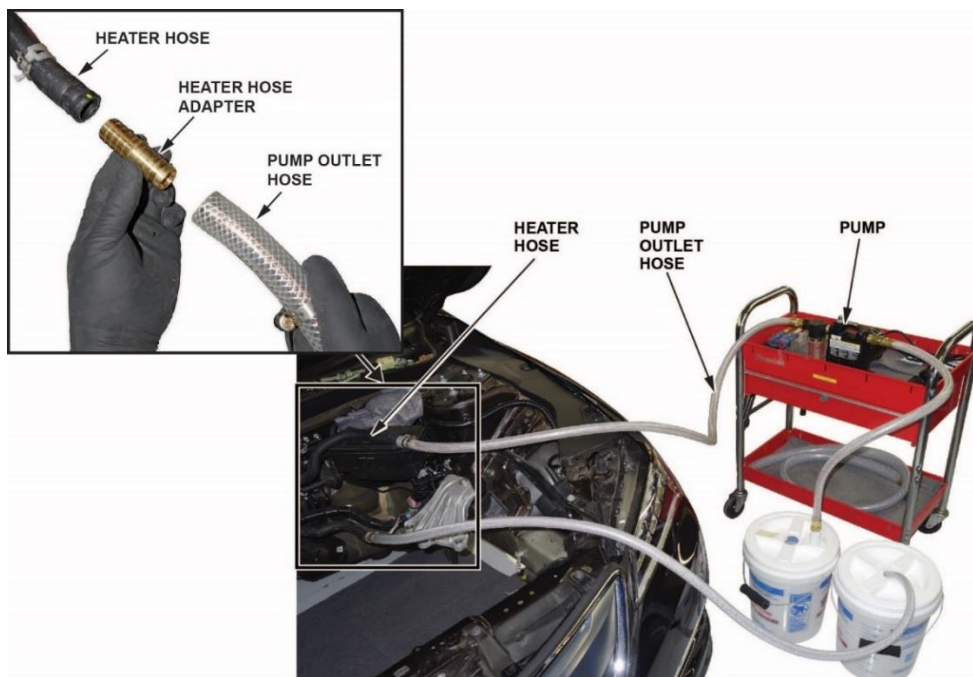
- Use this procedure only if the transmission cooler engine failed the pressure test and the engine overheated. If the engine did not overheat, go to REPAIR PROCEDURE C.
  - Fill in the heater core part of the flush work sheet (see page 70), and attach it to the RO.
1. Remove the engine and transmission assembly. Refer to the service information.

### Heater Core Flush Procedure

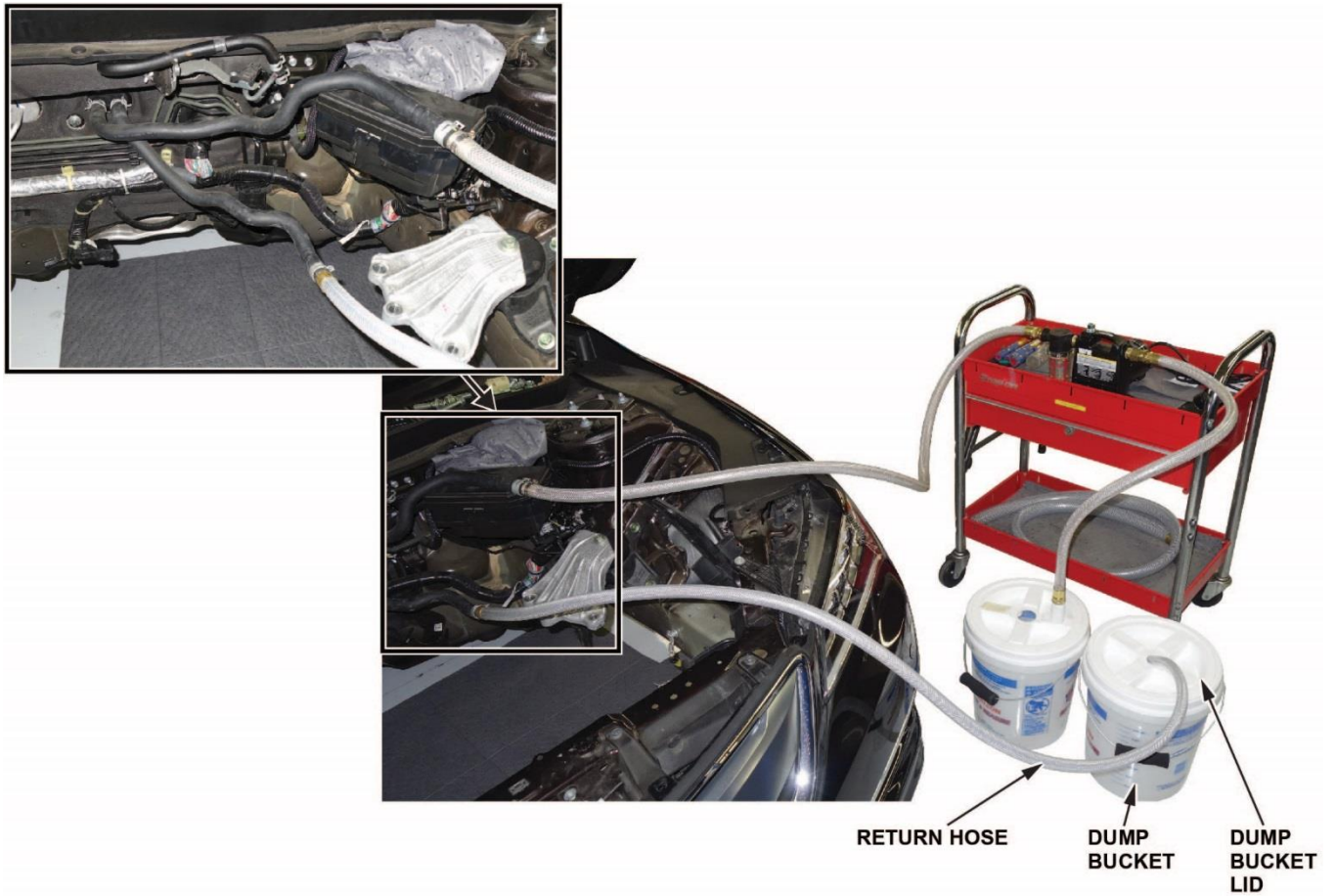
2. Connect the pump to the SUPPLY bucket.



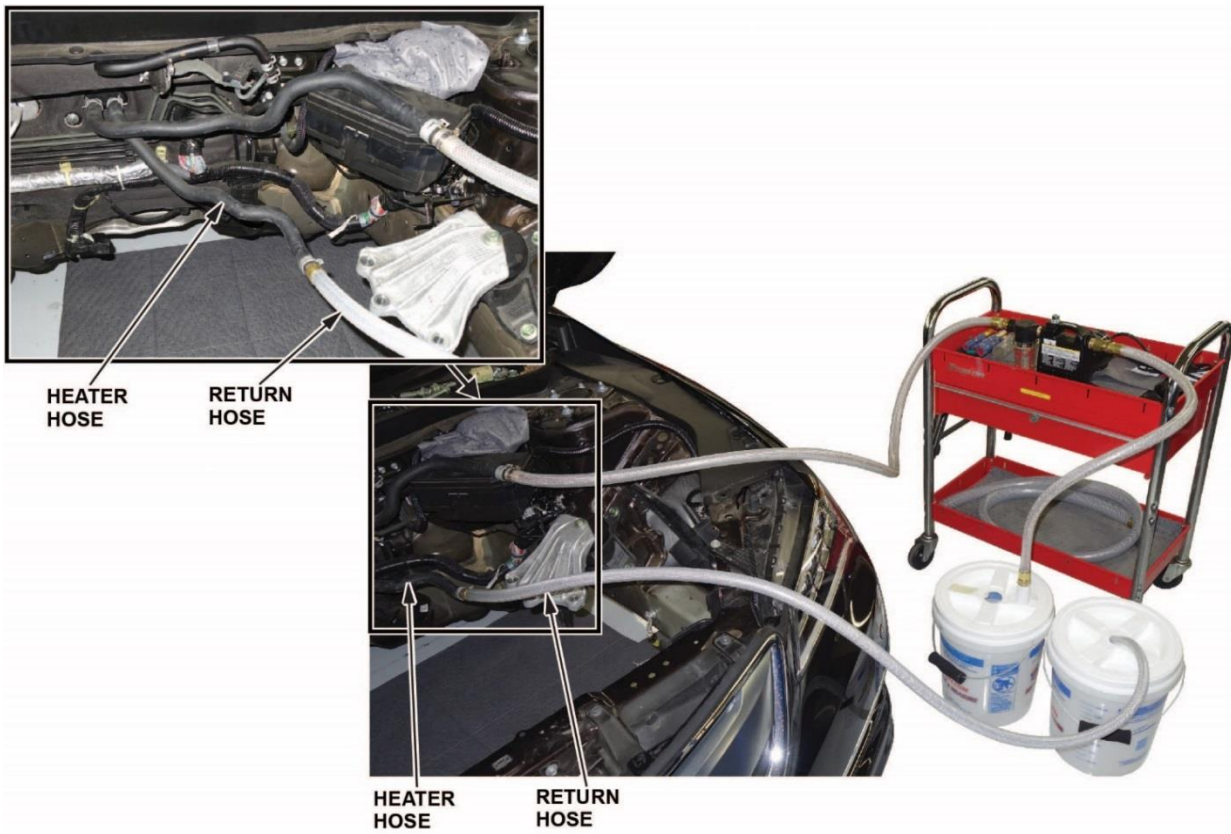
3. Make sure the 0.75 in. heater hose adaptor is installed on the pump outlet hose, then connect the pump outlet hose to the heater hose as shown.



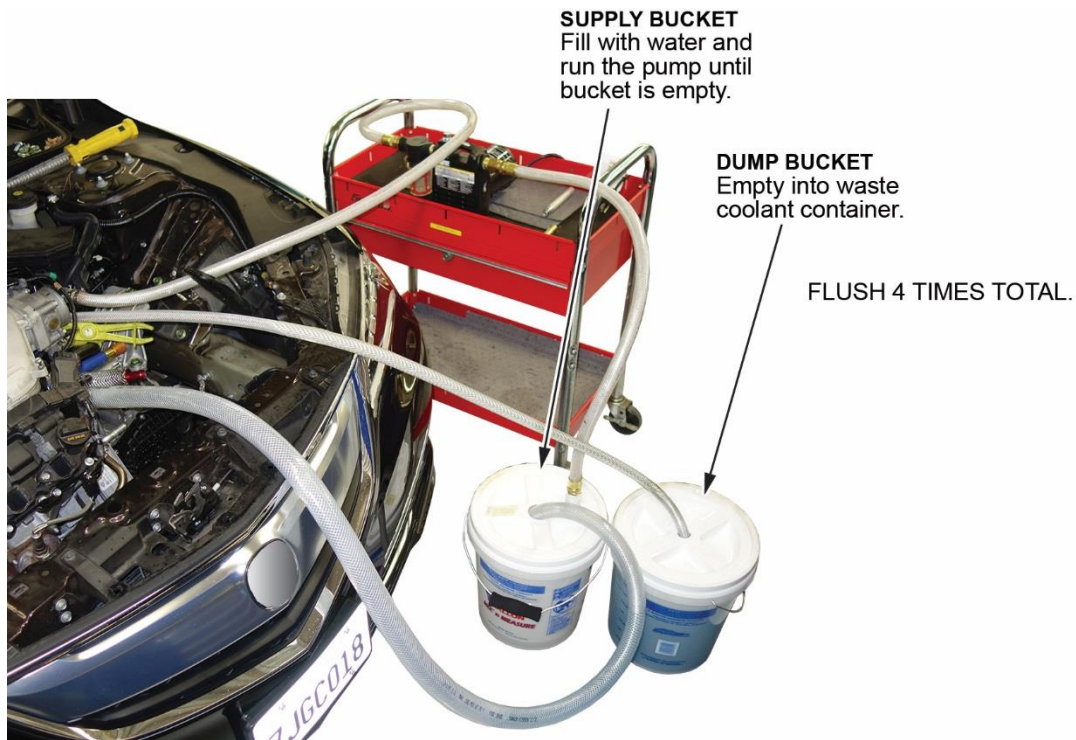
4. Install the return hose through the DUMP bucket lid, then install the lid on the bucket.



5. Attach the return hose to the heater hose as shown.



6. Fill the SUPPLY bucket with water, and run the pump until the SUPPLY bucket is empty.



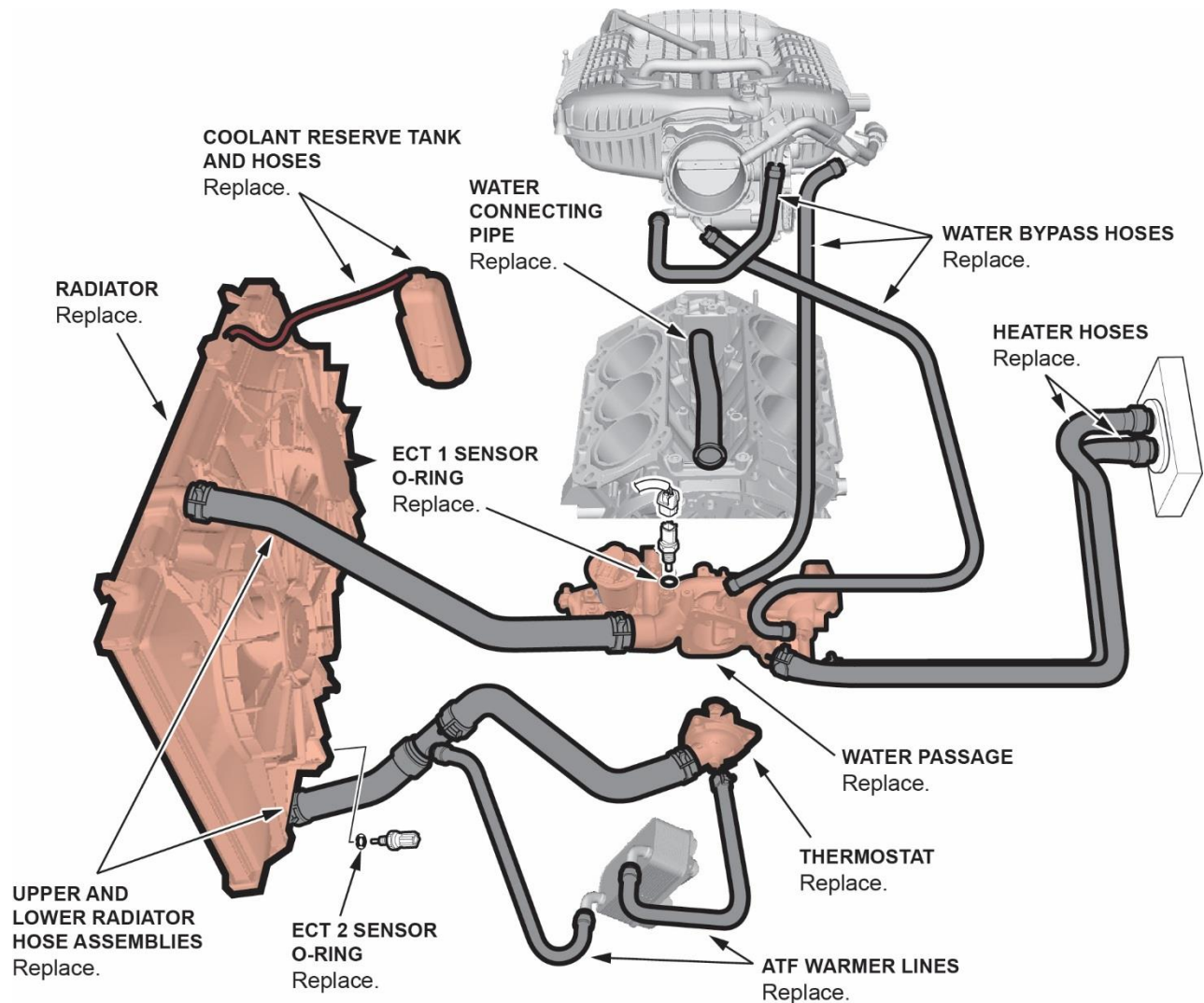
NOTE: If this is the first time using the pump, remove the priming plug, and fill the pump with clean water, then reinstall the plug.



7. Empty the DUMP bucket into the waste coolant container.
8. Repeat the flush 3 more times.
9. Empty the DUMP bucket into the waste coolant container, and wipe off any oil residue from the bucket.
10. Remove the pump and return hose from the vehicle.

## Reassemble Vehicle

11. Install a new short block, water connecting pipe, water passage, new cylinder heads, and a remanufactured transmission.
12. Replace the radiator, the 10 indicated coolant hoses, the thermostat, the water passage and water connecting pipe, the coolant reserve tank, the 2 ECT sensor (1 and 2) O-Rings, and the coolant reserve tank and hoses. Refer to the image for the location of all the components.



13. To ensure proper shift quality, update the TCM and PCM as necessary, then do the PCM idle learn, teach-in (Hydraulic Pressure Characteristic Calibration), adaptation (see Tech2Tech listed below), and CKP-pattern learn. Refer to the service information.

#### PCM

Trim	Program IN (or later)	Program P/N (or later)
2016 2WD Base, Technology	J6A060	37805-5J6-A060
2016 2WD AcuraWatch	J6A160	37805-5J6-A160
2016 2WD Advance	J6A460	37805-5J6-A460
2016 AWD Base, Technology	J6A260	37805-5J6-A260
2016 AWD AcuraWatch	J6A360	37805-5J6-A360
2016 AWD Advance w/Auto Stop	J6A960	37805-5J6-A960

#### TCM

Trim	Program IN (or later)	Program P/N (or later)
2016 2WD Base, Technology	NBA570	28101-5NB-A570
2016 2WD AcuraWatch	NBA670	28101-5NB-A670
2016 2WD Advance	NBA770	28101-5NB-A770
2016 AWD Base, Technology	NCA580	28101-5NC-A580
2016 AWD AcuraWatch	NCA680	28101-5NC-A680
2016 AWD Advance w/Auto Stop	NCA780	28101-5NC-A780

- Automatic Transmission Removal and Installation
- [Tech2Tech "Power Up a One-Push Start Vehicle with the i-HDS – With Replaced Components"](#)
- [Tech2Tech "9-Speed Transmission or TCM Replacement Procedure"](#)

14. Give your warranty clerk the digital photos and RO. For the warranty claim to be paid, the **three photos** must be included in the warranty claim. See ATTACHING PHOTOS TO A CLAIM for information about attaching photos to warranty claims.

END

VIN \_\_\_\_\_  
RO \_\_\_\_\_

# Flush Work Sheet.

(Check each box when completed.)  
(Attach to the RO.)

## ENGINE FLUSH

Prime pump.

Fill Supply bucket with 4.5 gallons of plain water flush 5 times wiping the bucket out between each flush.

1. Flush with plain water 10 min \_\_\_\_
2. Flush with plain water 10 min \_\_\_\_
3. Flush with plain water 10 min \_\_\_\_
4. Flush with plain water 10 min \_\_\_\_
5. Flush with plain water 10 min \_\_\_\_

**Add 4.5 gallons coolant for the final 2 flushes.**

1. Flush with coolant 10 min \_\_\_\_
2. Flush with coolant 10 min \_\_\_\_

## HEATER CORE FLUSH

Attach flush hoses to heater core. Fill supply bucket with 4.5 gallons of plain water flush 4 times.

1. Flush with plain water \_\_\_\_
2. Flush with plain water \_\_\_\_
3. Flush with plain water \_\_\_\_
4. Flush with plain water \_\_\_\_
5. Disconnect flush hoses \_\_\_\_
6. Remove thermostat \_\_\_\_ plug \_\_\_\_

END

## ATTACHING PHOTOS TO A CLAIM

Go to the **Photo Attachments** area of the claim form to upload images as shown below.

1. To attach photos to the claim, click on **Upload Images**.

Sublet Information				
Sublet Code	Invoice No.	Work Description	Sublet Amount	Rental Days
PH	1234567899	ENGINE BLOCK	500.00	
<< SELECT >>				
<b>Upload Images</b>		Photo Attachments	<b>View Images</b>	

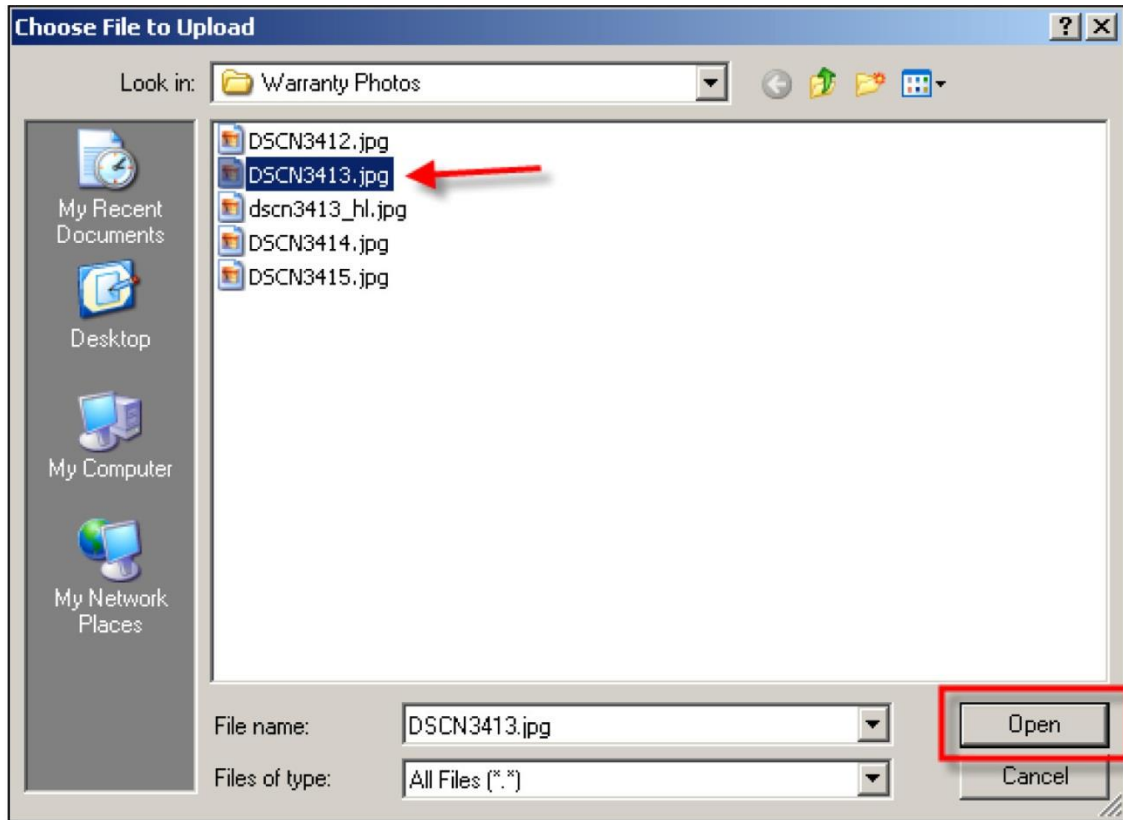
The **Claim Photo Attachment** screen appears.

• = Required

### Claim Photo Attachment

Uploaded Images 0 (Maximum 5)  Fit To Window  Full Size

2. Click on **Browse**. The **Choose File to Upload** window appears.



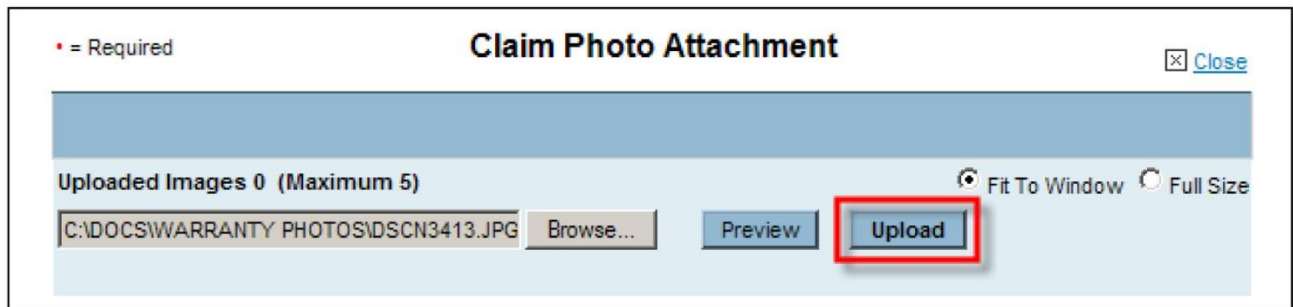
3. Click on an image file to be uploaded.
4. Click on **Open** to select the file.



5. Click on **Preview** if you would like to view the image before uploading. The preview image appears. **Fit To Window** is selected by default as the size at which the preview image is displayed. Click on **Full Size** if you want to enlarge the image, and use the scrollbars to view different areas of the enlarged image.



6. Click on **Upload** to attach the image to the warranty claim. The **Uploaded Images** count increases each time you upload a photo.



7. Click on **Browse** again and follow the same steps to continue attaching images to the claim. To properly document each warranty repair claim, at least 3 photos must be attached.

8. When finished attaching photos, click on **Close**.

The file names of your attached photos now appear in the **Photo Attachments** area of the claim form, as shown below.

Sublet Information				
Sublet Code	Invoice No.	Work Description	Sublet Amount	Rental Days
PH	1234567899	ENGINE BLOCK	500.00	
<< SELECT >>				
Upload Images		Photo Attachments		View Images
dscn3413_hl.jpg	DSCN3412.jpg	DSCN3414.jpg	DSCN3415.jpg	





### VIEWING AND DELETING PHOTO ATTACHMENTS


After uploading photo attachments, you can view the photos by clicking on **View Images** in the **Photo Attachments** area. The **Claim Photo Attachment** screen displays thumbnails of all photos attached to the claim.

Sublet Information				
Sublet Code	Invoice No.	Work Description	Sublet Amount	Rental Days
PH	1234567899	ENGINE BLOCK	500.00	
<< SELECT >>				
Upload Images		Photo Attachments		View Images
dscn3413_hl.jpg	DSCN3412.jpg	DSCN3414.jpg	DSCN3415.jpg	

**Claim Photo Attachment** Close

Images Uploaded: 4 Fit To Window Full Size

- [Delete](#)  dscn3413\_hl.jpg
- [Delete](#)  DSCN3412.jpg
- [Delete](#)  DSCN3414.jpg
- [Delete](#)  DSCN3415.jpg



Click on a thumbnail to view the photo attachment as shown above. To delete a photo attachment, simply click on **Delete** to the left of its thumbnail.



When your claim and photos are completely ready, click on **Submit** to send the claim to the American Honda Warranty department.

#### **WARRANTY CLAIM PHOTO ATTACHMENT INQUIRY**

After submitting a warranty claim, you can view its photo attachments at any time as follows:

1. Click on **Service > Warranty > Warranty Claim Photo Attachment Inquiry**.
2. Enter any of the following: **Claim Number, VIN, Repair Order Number, or Repair Order Date**.
3. Click on **submit**. Thumbnails of all photos attached to the claim appear, as shown below.
4. Click on any thumbnail to view the photo attachment.

NOTE:

- Photo attachments are archived on the iN for 2 years.

- Whenever you open a saved warranty claim and attach or delete photos, you must either **save** or **submit** the claim to retain your photo attachment changes.

Signed in as: JOE ADMIN | Edit Profile | Emulation | Sign Out  
MY FAVORITES | HOME | SITE MAP | IN SUPPORT | CONTACT US | ALERTS | HONDA | ONLINE UNIVERSITY

Hide This Menu

Acknowledgements

Transactions

Warranty Claim

Warranty Claim Photo Attachment Inquiry

Transportation Claim

Claim Status by Claim No

Claim Status by VIN

Unpaid Claim Deletion

Powertrain & Emissions Inquiry

Demonstrator Warranty Application Claim

R.O. Interface

Reports

Required

### Warranty Claim Photo Attachment Inquiry

The Sales Portal | Help | Print

Search Parameters

Claim Number: 123456

VIN: [ ]

Repair Order Number: [ ]

Repair Order Date: [ ]

Submit

Claim Number	VIN	Repair Order Number	Repair Order Date
123456	1HGCS12858A011616	441446	01/31/2008

Claim #: 123456 | VIN: 1HGCS12858A011616 | RO#: 441446 | RD Date: 01/31/2008

Fit To Window | Full Size

dscn3413\_h.jpg

DSCN3412.jpg

DSCN3414.jpg

DSCN3415.jpg

DANA

75-51572

ZL 00031624

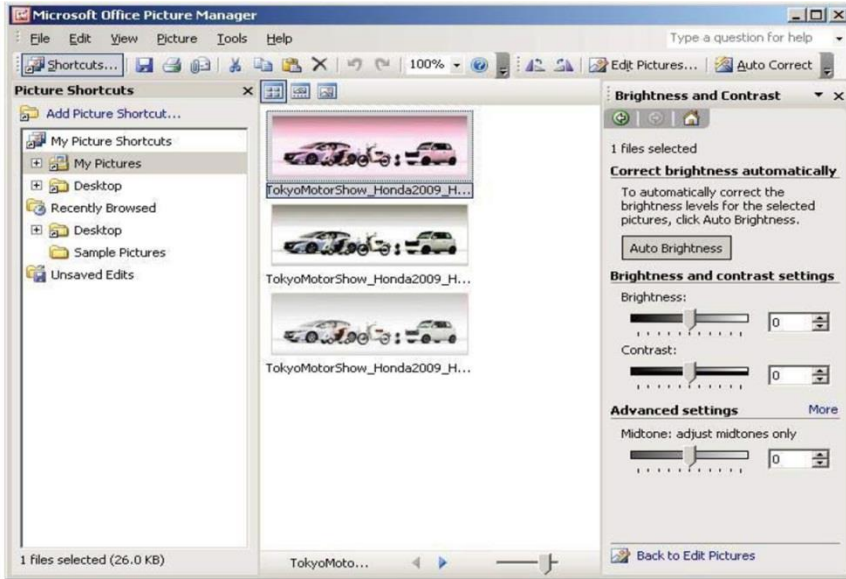
0501331275

2015-07-27 52083878

Made in Canada | Fabrique en Canada

## CORRECTING PHOTO PROBLEMS USING PICTURE MANAGER

Microsoft Office Picture Manager is a very useful tool to help improve the quality of photos submitted for warranty consideration.



While the Picture Manager program cannot correct blurry, out-of-focus pictures, it can adjust pictures for brightness, contrast, and color, helping to reveal details. It can also crop or resize digital photo files so that they can be submitted for warranty claim consideration.

- To use this program on your PC, click on **Start > Programs > Microsoft Office > Microsoft Office Tools > Microsoft Office Picture Manager**.
- If the above instruction does not lead you to the Picture Manager program, click on **Start > Search**. Under **Search for Folders or Files**, enter **Picture Manager** in the Search window, then click on **Search Now**.
- To create a shortcut to open Microsoft Picture Manager from your desktop, go to **Start > Programs > Microsoft Office > Microsoft Office Tools > Microsoft Picture Manager >**, then right-click and choose **Create Shortcut**. The shortcut icon and title will appear below the original Microsoft Picture Manager icon and title. Left-click and hold on the shortcut icon and drag it to the desktop. Once there, if you wish to change its name, right-click on the icon and select **Rename**.
- To open and edit photos directly from Microsoft Picture Manager, right-click on any JPEG picture file, then move your cursor to **Open with**.

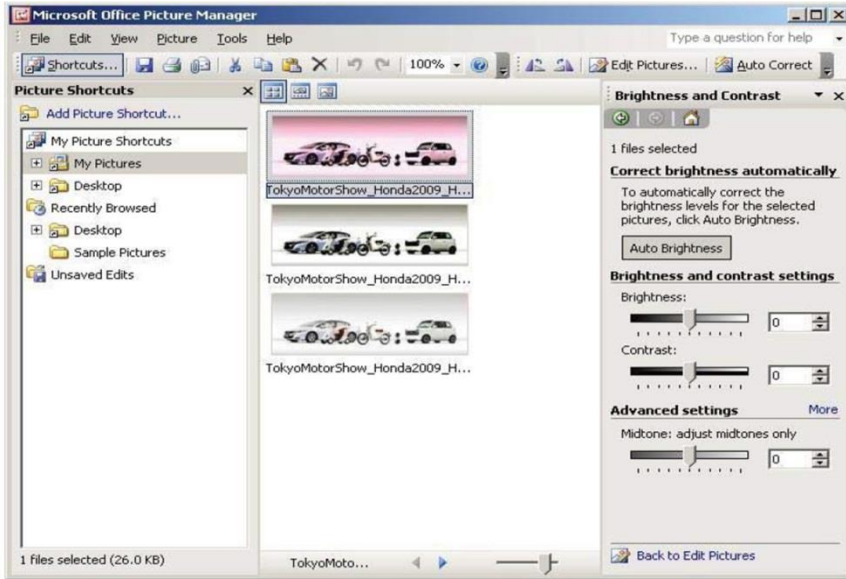
Another window will open listing Microsoft Office Picture Manager and other programs. **Do not** click on **Picture Manager**, but instead scroll down the list, then click on **Choose Program**.

Another window will open, with Picture Manager already selected. Check the open box next to **Always use the selected program to open this kind of file**; this will make Picture Manager your default picture management program.

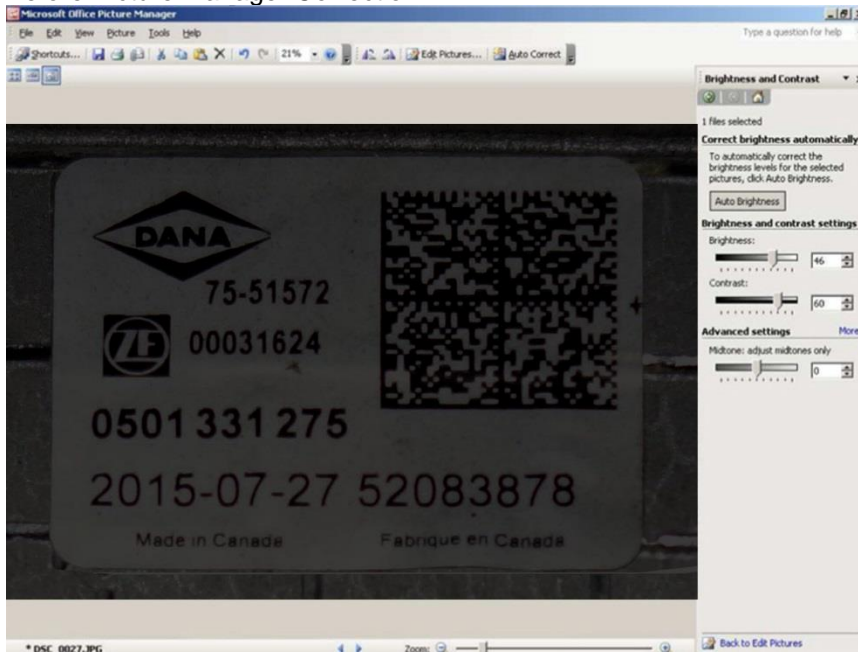
NOTE: The next time you click on a JPEG photo, it will automatically open in the Picture Manager program.

## Correction Example #1: Photo is Too Dark

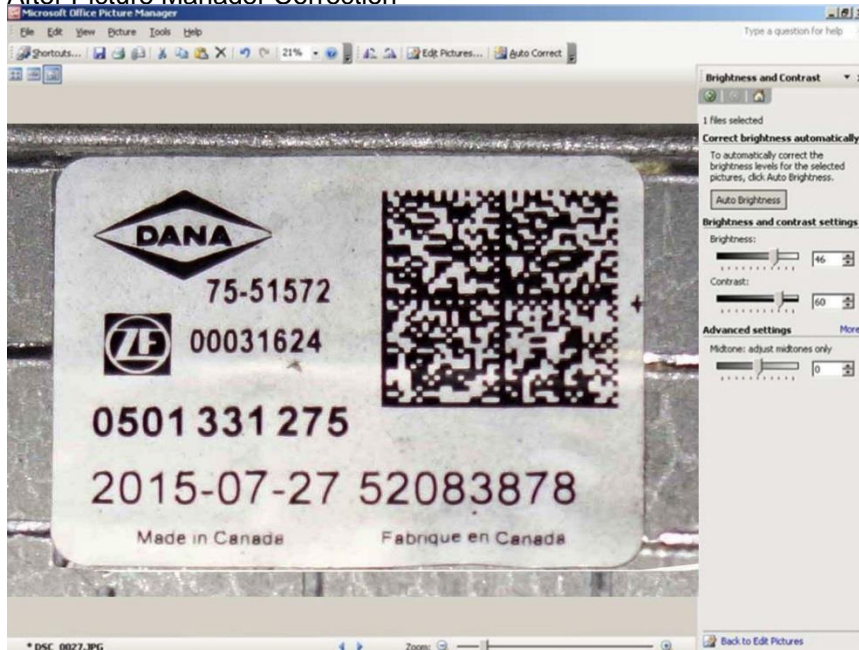
In Picture Manager, select **Edit/Edit Pictures > Edit Using These Tools/Brightness and Contrast**. Use the sliding scales to adjust the photo to the brightness and contrast that best reveal the fault.



## Before Picture Manager Correction



## After Picture Manager Correction

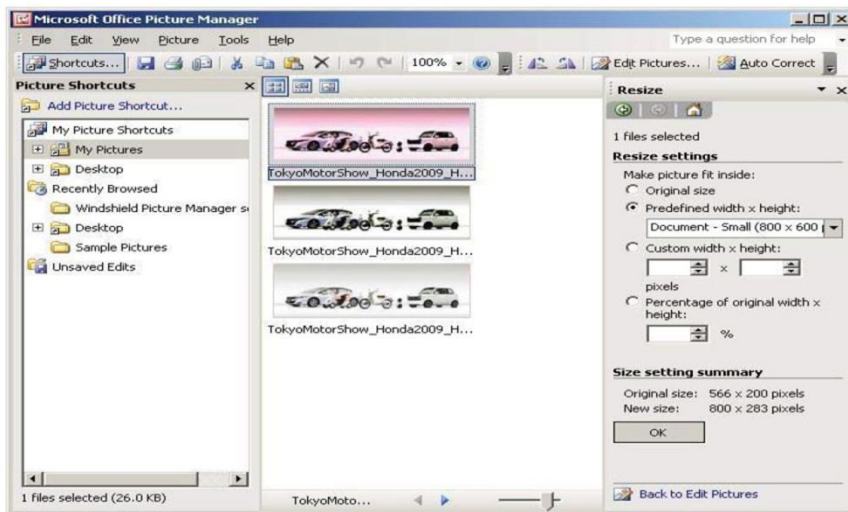


### Correction Example #2: Photo Size is Too Large

For maximum clarity, **the file size for each photo must be between 500 kB and 10,000 kB (10 mB)**. ZIP-compressed files are not acceptable. Photo file sizes over 10,000 kB (10 mB) cannot be accepted by the American Honda Warranty department.

To reduce a picture's file size, open Picture Manager. Click on the photo to be reduced, then click on **Edit Pictures > Resize > Percentage of original width x height**, then click on the down arrow to reduce its percentage (%) size. View the pixel count change in **Size Setting Summary**, which displays the photo's **Original size** and its **New size**.

NOTE: The % function changes the pixels per inch, so a photo's size should be reduced only enough to meet the maximum file size requirement. For example, a 10% reduction in pixels per inch will reduce a photo's size and its resolution by almost 50%.



END