IMPORTANT UPDATE

TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL J07

POTENTIAL LOSS OF POWER WHILE DRIVING

CERTAIN 2019 COROLLA HATCHBACK

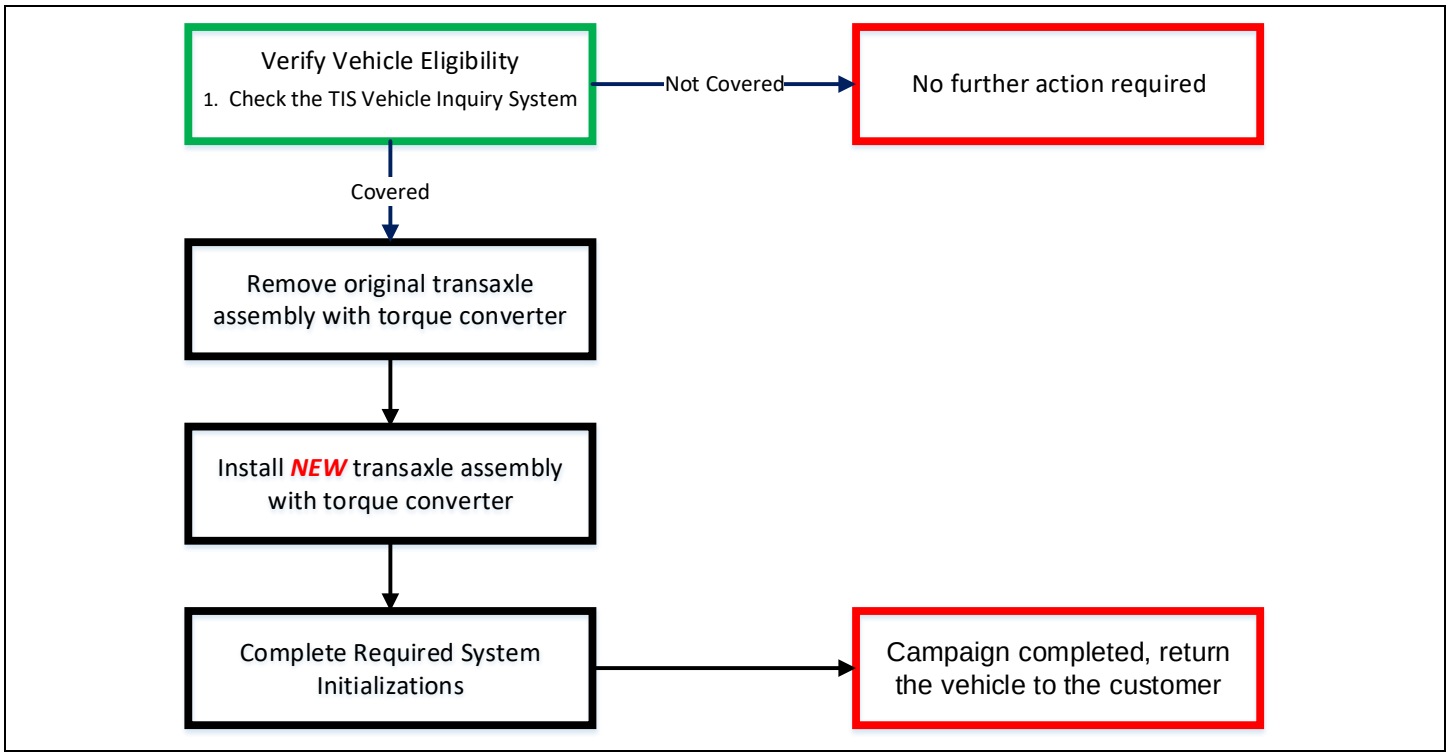
Important Update: Disablement of original transaxle added on 19.

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to currently hold at least one of the following certification levels:

- **Certified Technician (Drivetrain)**
- **Expert Technician (Drivetrain)**
- **Master Technician**
- **Master Diagnostic Technician**

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this recall repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that it has not already been completed prior to dealer shipment or by another dealer.
- TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were completed by another dealer.

III. PREPARATION

A. PARTS

Part Number	Part Description	Quantity
04008-53112	Continuously Variable Transaxle Assembly with Torque converter	1
04008-60112	CVT Repair Kit*	1

* The kit above includes the following parts.

Part Number	Part Description	Quantity
16492-21050	Radiator Drain Cock Packing	1
90080-17238	Front Axle Shaft Nut	2
90430-A0003	Gasket	2
90468-14016	Clip	1
95381-03025	Cotter Pin	2
17451-0D140	Exhaust Pipe Gasket	1
17451-F2010	No.2 Exhaust Pipe Gasket	1
90080-52017	Front Drive Shaft Hole Snap Ring	2
35150-44010	Transmission Case Plug Assembly with O-ring	1
90301-09173	O-Ring	1

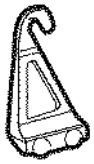
B. TOOLS & EQUIPMENT

- Standard Hand Tools
- Wheel Alignment Machine
- Radiator Cap Tester
- Height Adjustable Attachment
- Techstream
- Vernier Calipers
- Deep Socket Wrench 30mm
- Plate Lift Attachment
- Torque Wrench
- Straight Square
- Engine Lifter
- Transmission jack

SST –These are essential service tools that the dealership should have.

Part Number	Part Name	Quantity
09520-01011	Drive Shaft Remover Attachment	1
09520-20010 (09521-02010) (09521-02040) (09521-02060)	Shocker Set Rod No.1 Weight No.1 Grip	1
09930-00010	Drive Shaft Nut Chisel	1
09961-00950	Torque Wrench Adaptor	1
09960-20010 (09961-02010) (09961-02060)	Ball Joint Puller Set Ball Joint Puller Assembly Spacer B	1
00002-ESUPPT-01	Engine Support Bar	1

SST – Tools supplied for this Safety Recall

No.1 & No.2 Engine Hanger Application: Support of Engine Assembly		
		
Strut Tower Side	Transmission Side	2 bolts per Hanger

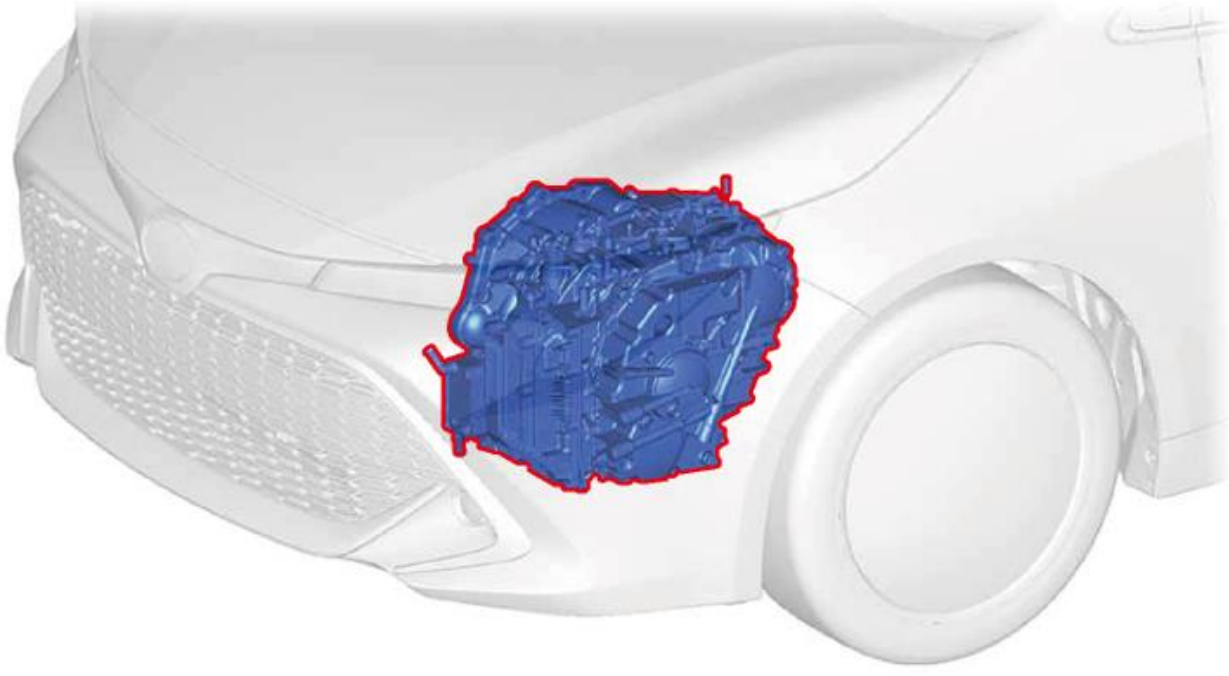
The Engine Hangers and bolts will be shipped to each dealership for use in this campaign. Please contact your Service Manager for the location of these parts.

MATERIALS

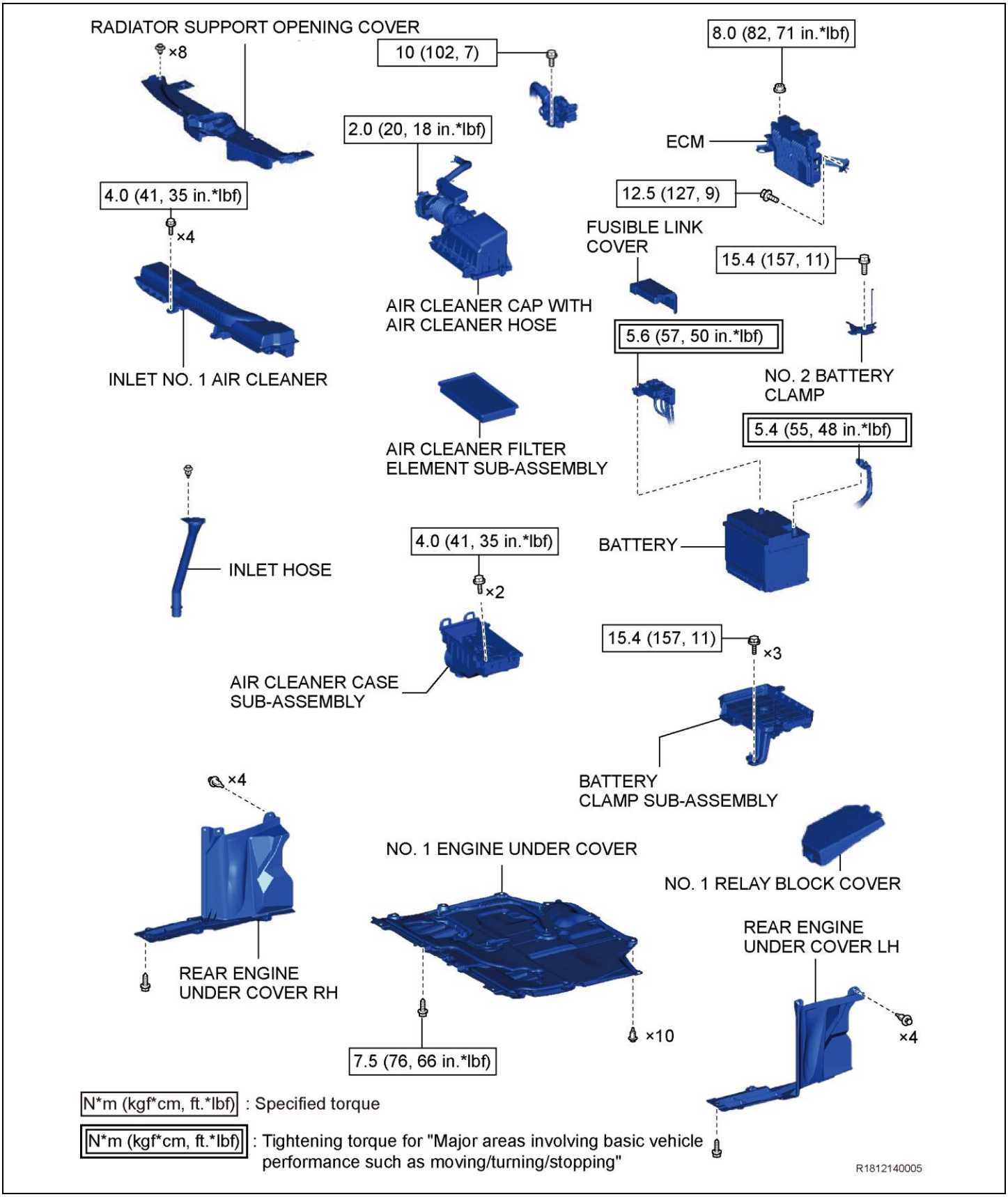
- Toyota Genuine CVT fluid FE = Quantity 4.5 L (4.8 US qts, 4.0 Imp. qts)
- Toyota Super Long Life Coolant = Quantity 6.2 L (6.6 US qts, 5.5 Imp. qts)

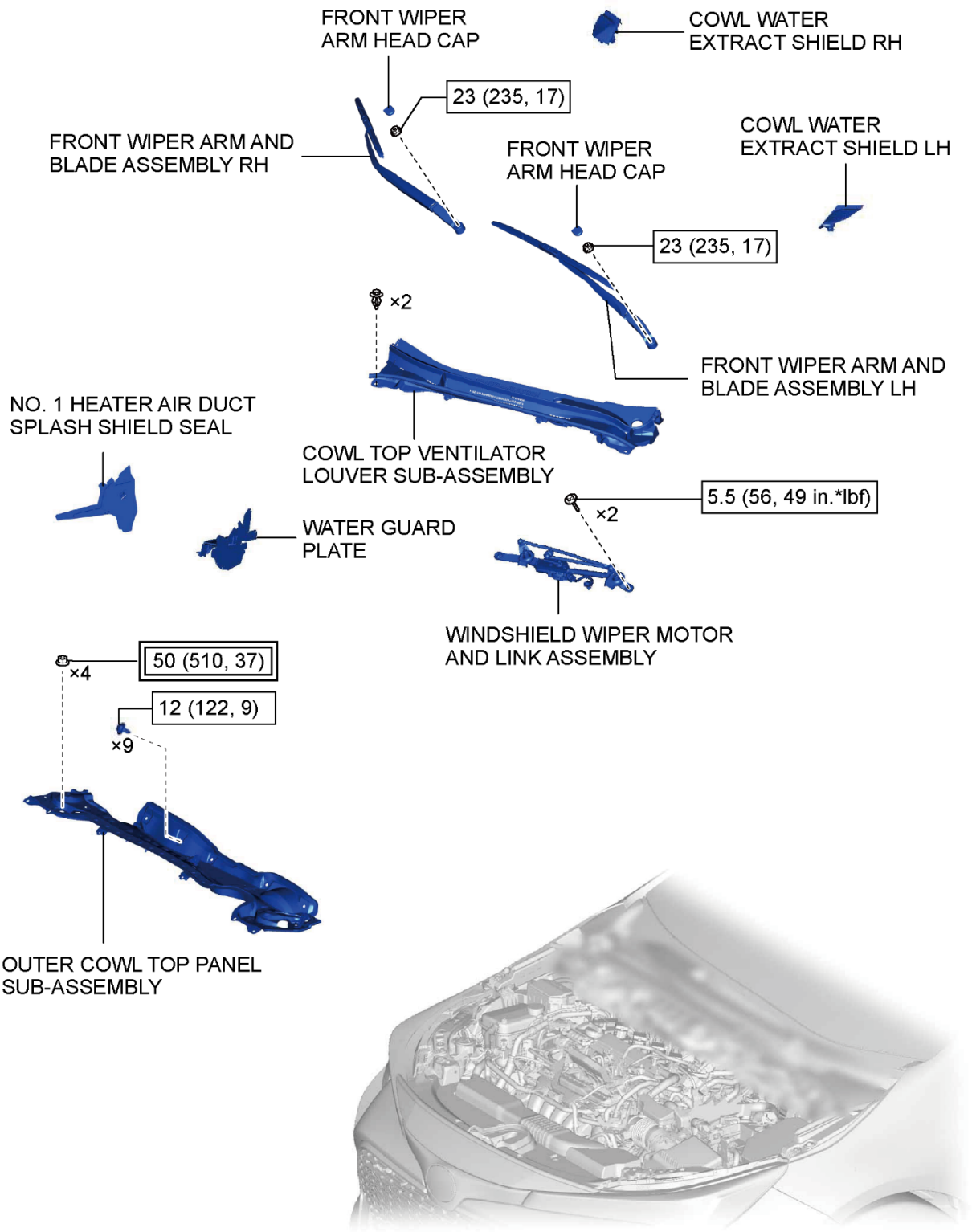
IV. BACKGROUND

In the involved vehicles, there is a possibility that the torque converter in the Continuously Variable Transmission (CVT) could fail. Under certain conditions this could result in a loss of motive power. Loss of motive power while driving at higher speeds could increase the risk of crash.



V. COMPONENTS

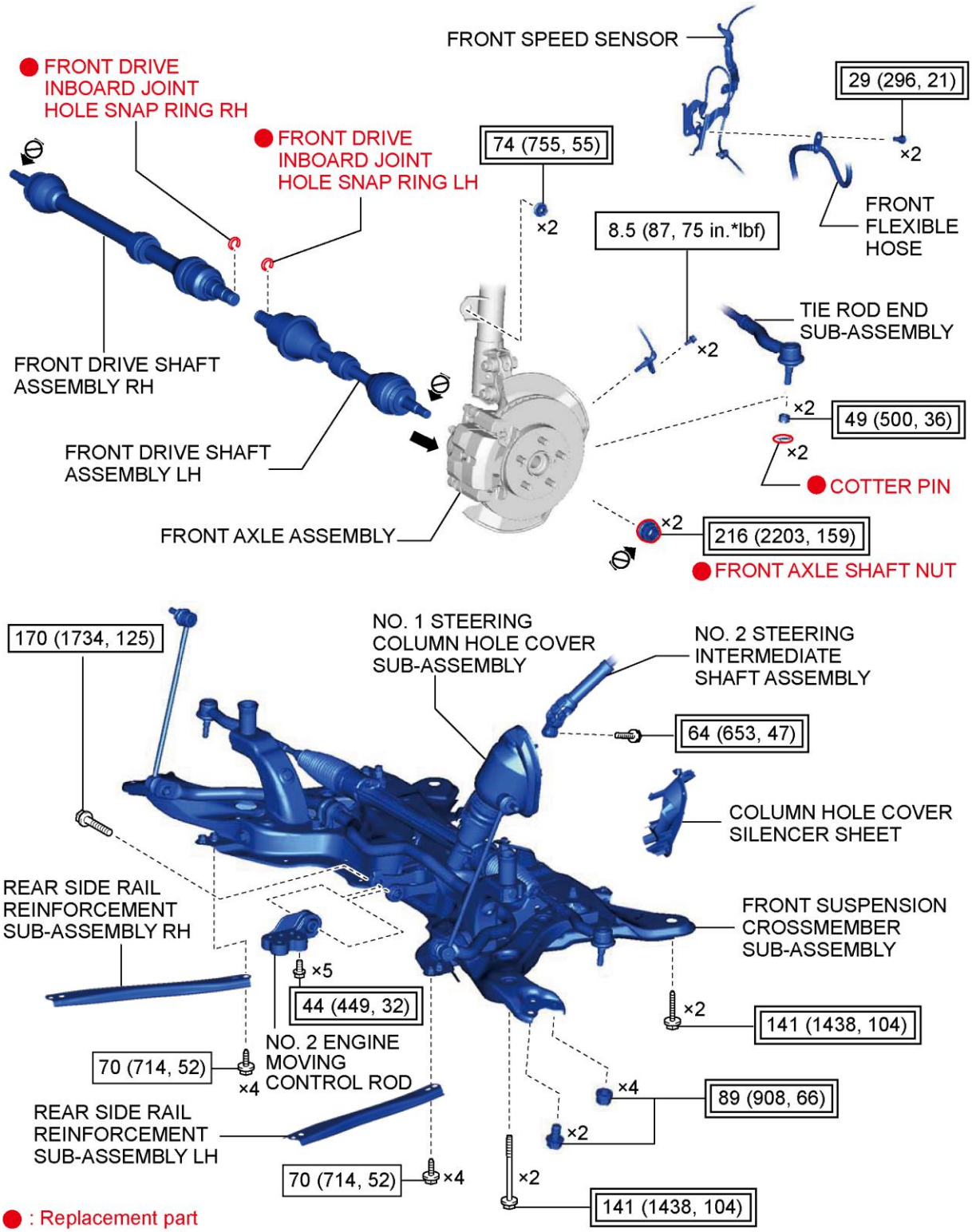




N*m (kgf*cm, ft.*lbf) : Specified torque

N*m (kgf*cm, ft.*lbf) : Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping"

R1812140004



● : Replacement part

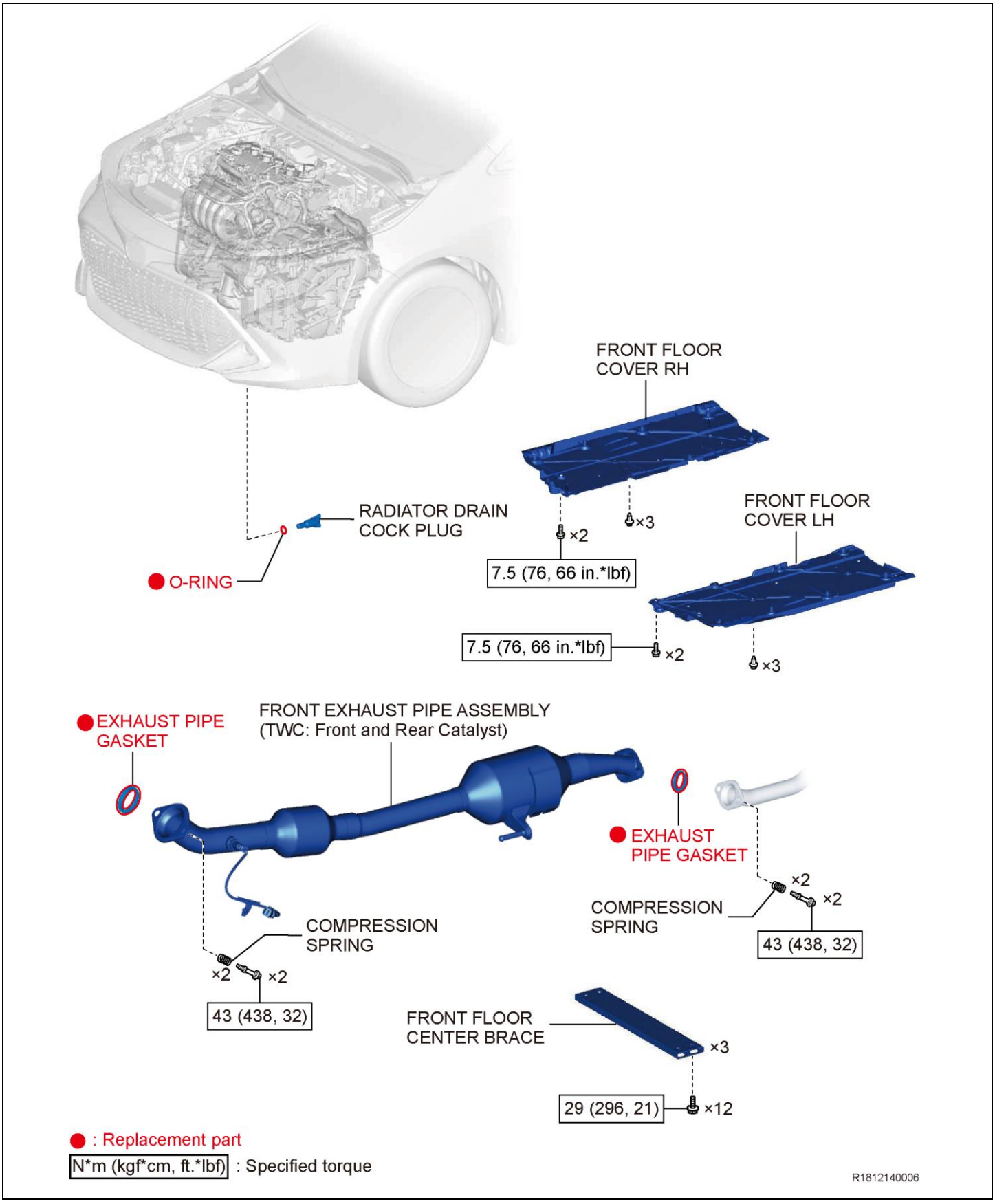
N*m (kgf*cm, ft.*lbf) : Specified torque

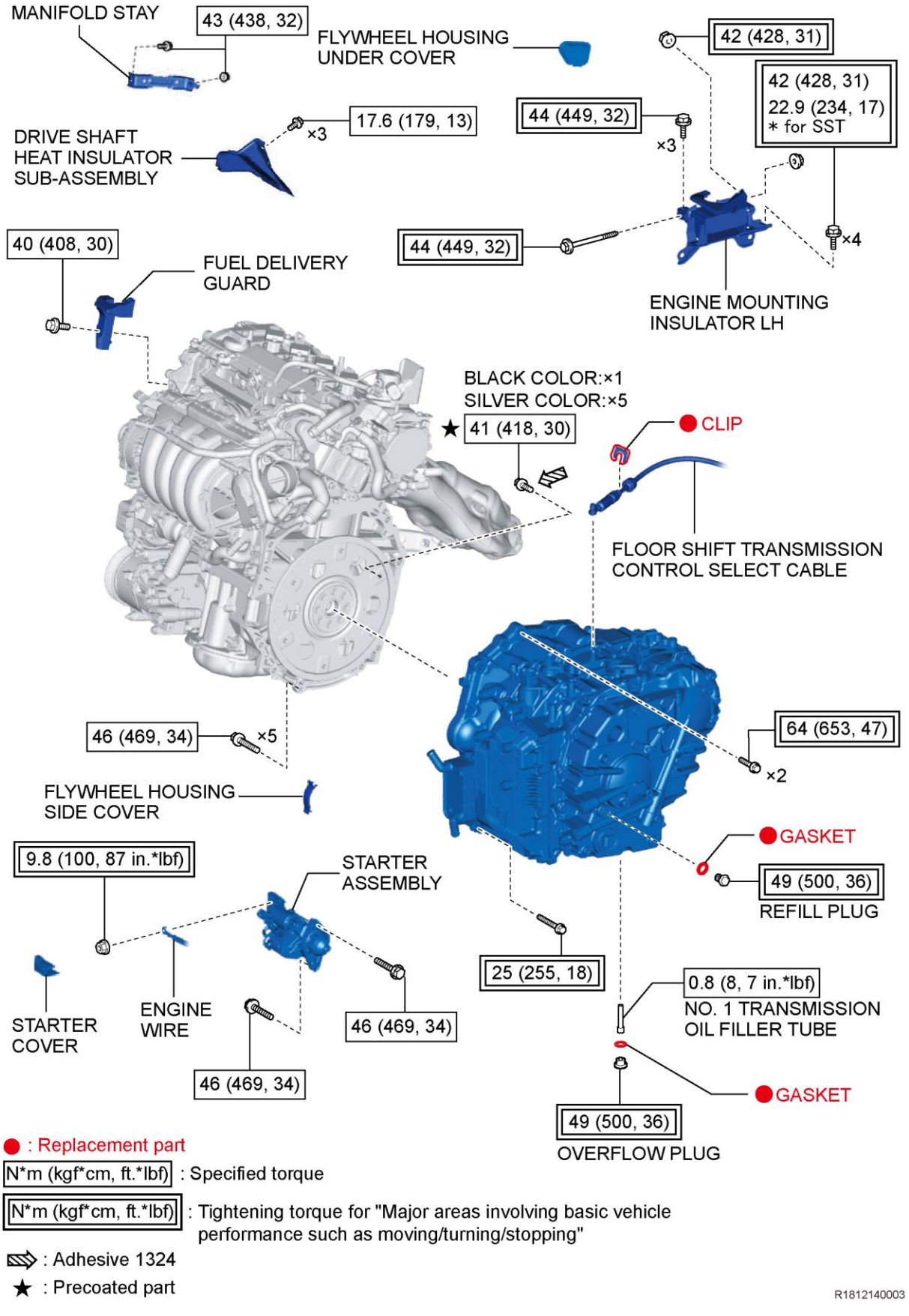
N*m (kgf*cm, ft.*lbf) : Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping"

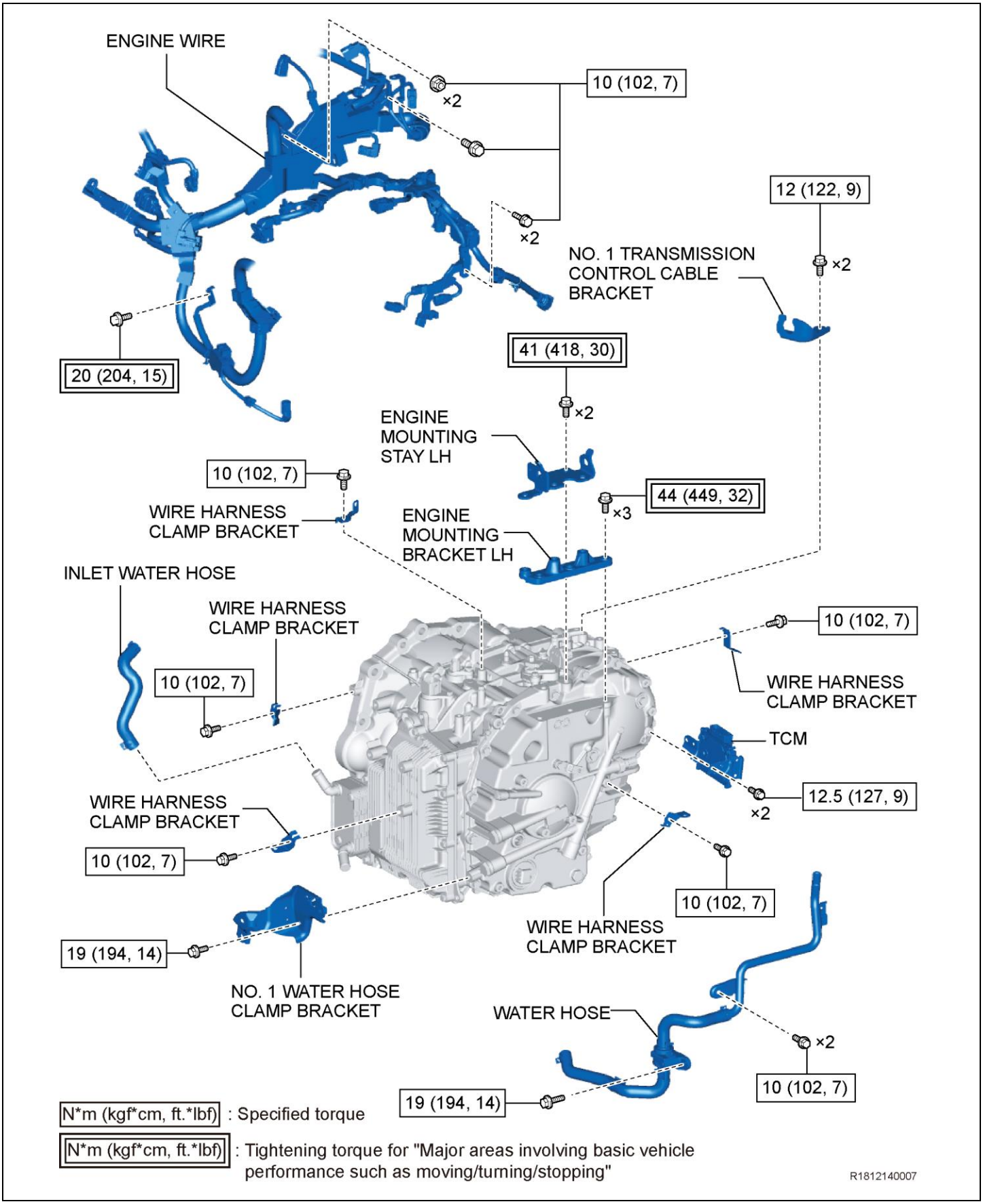
➡ : Toyota Body Grease W

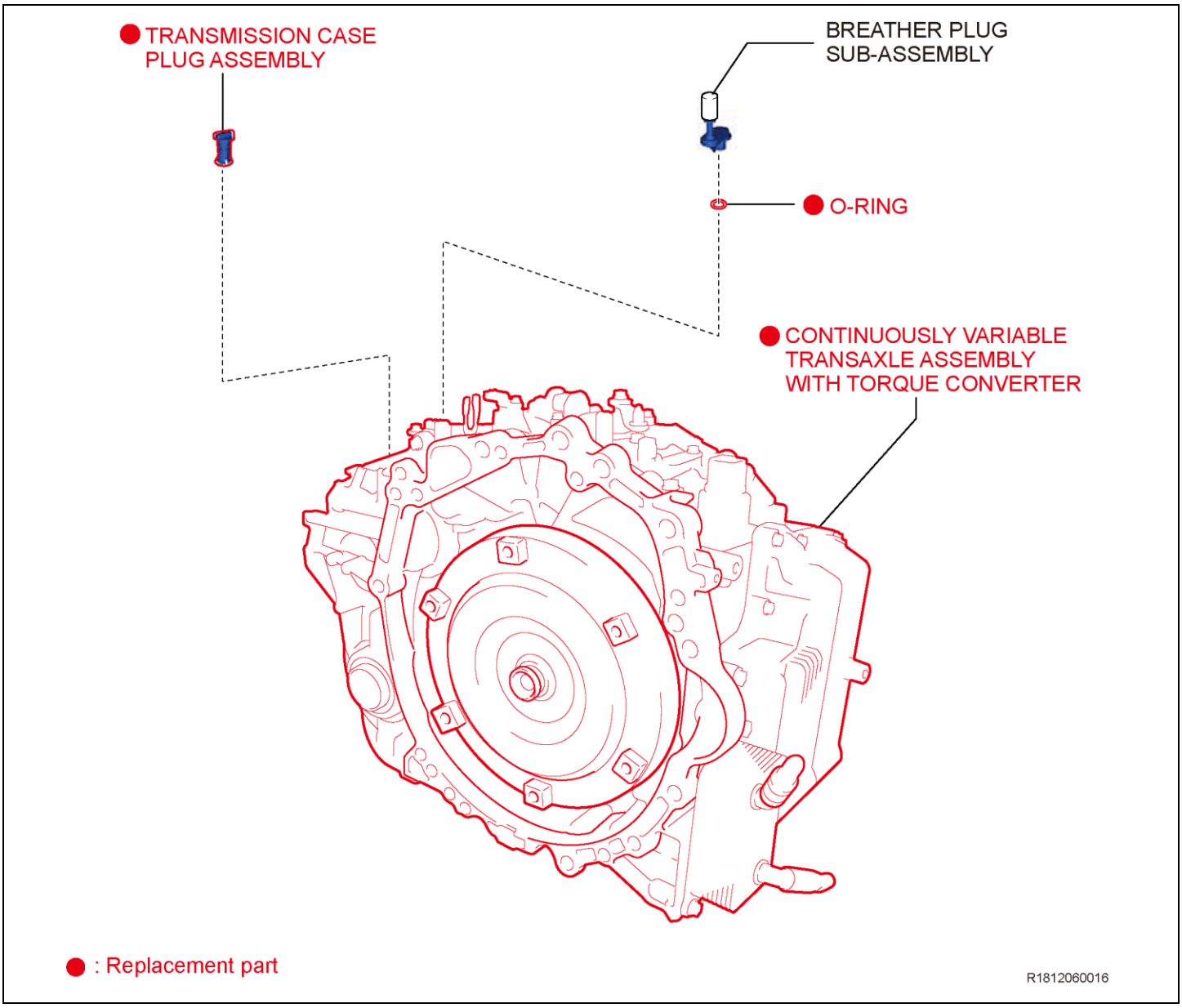
⃠ : Do not apply lubricants to the threaded parts

R1812140002


FRONT FLOOR COVER RH
RADIATOR DRAIN COCK PLUG
O-RING
×2
×3
7.5 (76, 66 in.*lbf)
FRONT FLOOR COVER LH
7.5 (76, 66 in.*lbf)
×2
×3
EXHAUST PIPE GASKET
FRONT EXHAUST PIPE ASSEMBLY (TWC: Front and Rear Catalyst)
EXHAUST PIPE GASKET
×2
×2
COMPRESSION SPRING
43 (438, 32)
COMPRESSION SPRING
×2
×2
43 (438, 32)
FRONT FLOOR CENTER BRACE
×3
29 (296, 21)
×12
: Replacement part
N*m (kgf*cm, ft.*lbf) : Specified torque
R1812140006


MANIFOLD STAY
43 (438, 32)
FLYWHEEL HOUSING UNDER COVER
42 (428, 31)
42 (428, 31)
22.9 (234, 17)
* for SST
DRIVE SHAFT HEAT INSULATOR SUB-ASSEMBLY
17.6 (179, 13)
×3
44 (449, 32)
×3
×4
40 (408, 30)
FUEL DELIVERY GUARD
44 (449, 32)
ENGINE MOUNTING INSULATOR LH
BLACK COLOR:×1
SILVER COLOR:×5
★ 41 (418, 30)
● CLIP
FLOOR SHIFT TRANSMISSION CONTROL SELECT CABLE
46 (469, 34)
×5
64 (653, 47)
×2
FLYWHEEL HOUSING SIDE COVER
● GASKET
9.8 (100, 87 in.*lbf)
STARTER ASSEMBLY
49 (500, 36)
REFILL PLUG
25 (255, 18)
0.8 (8, 7 in.*lbf)
NO. 1 TRANSMISSION OIL FILLER TUBE
STARTER COVER
ENGINE WIRE
46 (469, 34)
46 (469, 34)
● GASKET
49 (500, 36)
OVERFLOW PLUG
● : Replacement part
N*m (kgf*cm, ft.*lbf) : Specified torque
N*m (kgf*cm, ft.*lbf) : Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping"
: Adhesive 1324
★ : Precoated part
R1812140003


ENGINE WIRE
10 (102, 7)
×2
×2
12 (122, 9)
×2
NO. 1 TRANSMISSION CONTROL CABLE BRACKET
20 (204, 15)
41 (418, 30)
×2
ENGINE MOUNTING STAY LH
10 (102, 7)
WIRE HARNESS CLAMP BRACKET
44 (449, 32)
×3
ENGINE MOUNTING BRACKET LH
INLET WATER HOSE
WIRE HARNESS CLAMP BRACKET
10 (102, 7)
10 (102, 7)
WIRE HARNESS CLAMP BRACKET
TCM
12.5 (127, 9)
×2
WIRE HARNESS CLAMP BRACKET
10 (102, 7)
10 (102, 7)
WIRE HARNESS CLAMP BRACKET
19 (194, 14)
NO. 1 WATER HOSE CLAMP BRACKET
WATER HOSE
×2
10 (102, 7)
19 (194, 14)
N*m (kgf*cm, ft.*lbf) : Specified torque
N*m (kgf*cm, ft.*lbf) : Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping"
R1812140007



VI. PREPARATION

1. CHECK FOR DTC'S

a. Using a Techstream, check for Diagnostic Trouble Codes.

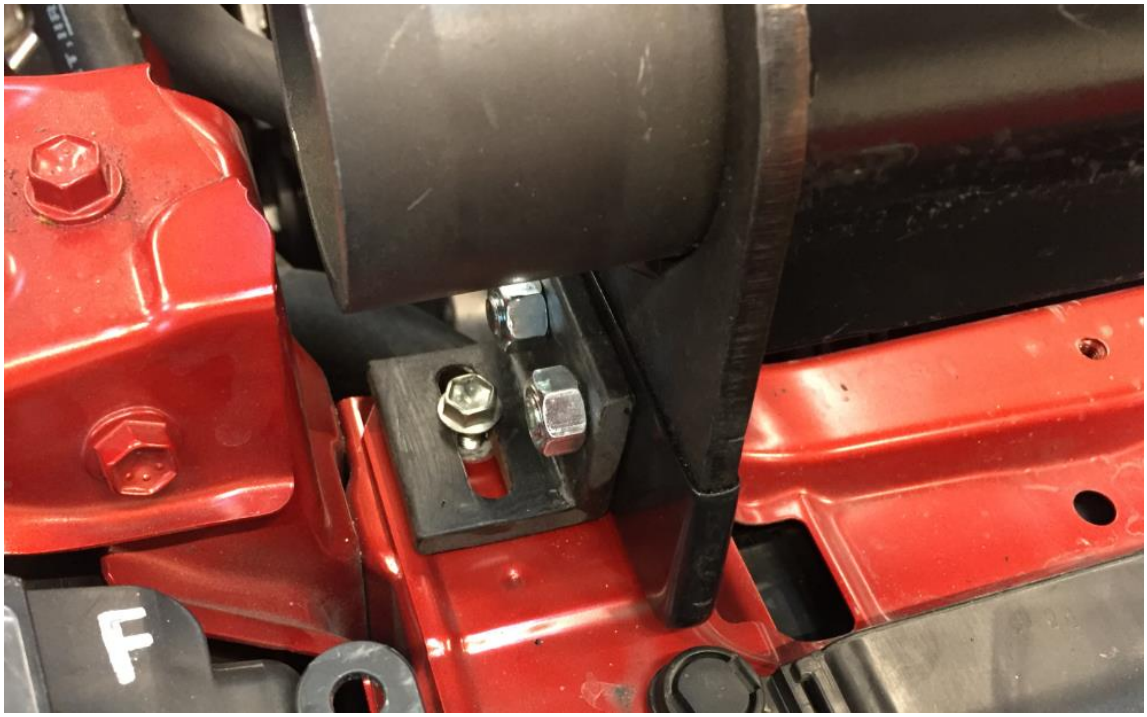
Note: This Safety Recall covers only the replacement of the transaxle and torque converter, as detailed in these instructions. It does not cover the diagnosis or replacement of any other parts on the vehicle.

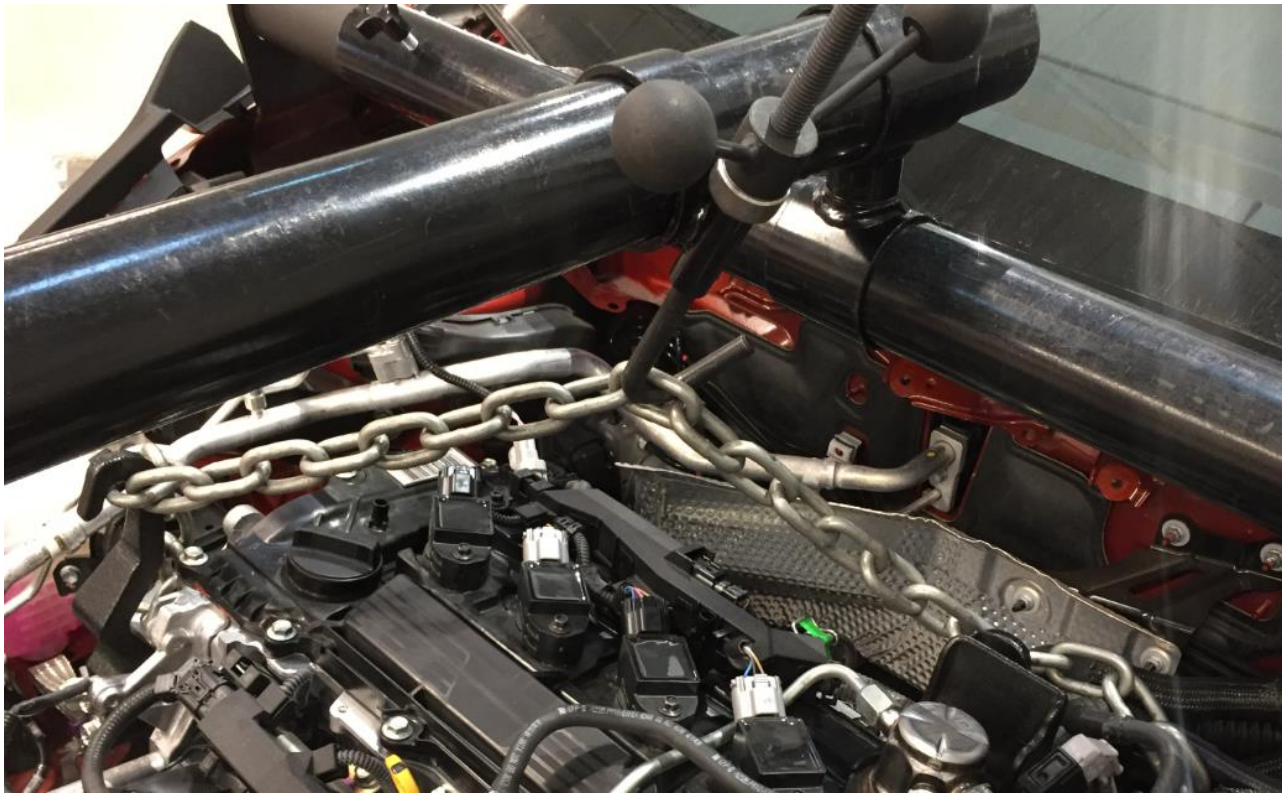
VII. INSTALLATION OF ENGINE SUPPORT BAR

Step 21 in the Transaxle Removal procedure of the Repair Manual details the installation of the Engine Support Bridge. This tool, as shown in the Repair Manual, is not available in the North American market. Your dealer, however, will have the Engine Support Bar as shown in the following pictures. Install this Engine Support Bar onto the vehicle as indicated in the following pictures, not as detailed in the Repair Manual.

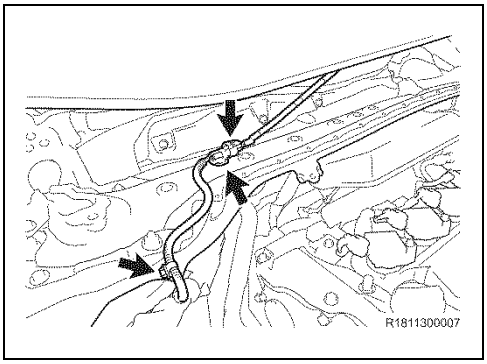
Details of Installation:

- Remove the hood.
- Remove the fuel delivery guard (aluminum bracket) from the front right corner of the cylinder head to attach the engine support hanger.
- Attach the 2nd engine support hanger to the left rear of the cylinder head.
- Attach the front support bar onto the core support with bolts (not supplied).
- Position the rear support bar onto the strut towers using the rubber insulated feet. Be sure to position it so that the base sits flat, without rocking.
- Install the cross bar and front vertical support as indicated.
- Install a chain (not supplied) between the two engine support hangers, leaving enough slack to attach to the J-Hook of the Engine Support Bar.


F

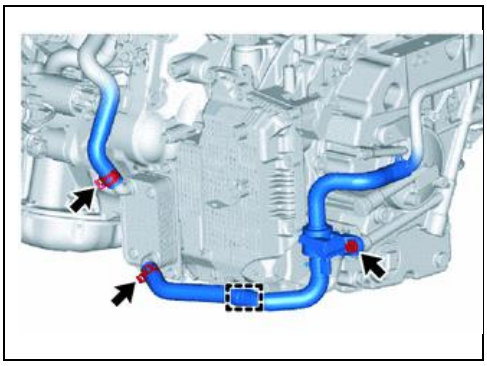


VIII. TRANSAXLE REMOVAL



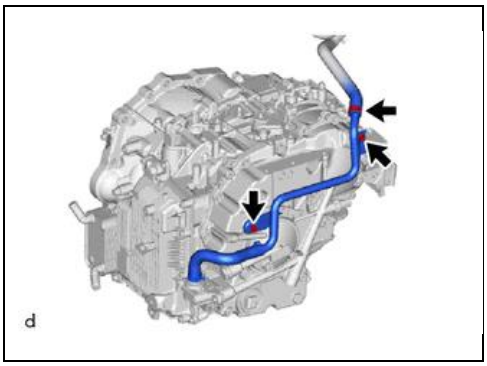
1. DISCONNECT WINDSHIELD DEICER SYSTEM (if equipped)

a. Disconnect the connector and 2 clamps.



2. REMOVE COOLANT HOSES FROM TRANSMISSION COOLER

a. Slide the 2 hose clips and disconnect the coolant hoses from the transmission cooler.
b. Disengage the clamp.
c. Remove the bolt and flow shutting valve (water valve) from the water hose clamp bracket.



d. Slide the hose clip and disconnect the water by-pass hose assembly from the water by-pass pipe assembly.
e. Remove the 2 bolts and water by-pass pipe assembly from the transmission.

3. REMOVE TRANSAXLE

a. In the following step, the Repair Manual Procedure will be used to remove the transaxle. The following steps detailed in the manual will not be necessary to complete transaxle removal:
   - Intake Manifold removal
   - Torque Converter removal
   - Transmission case plug

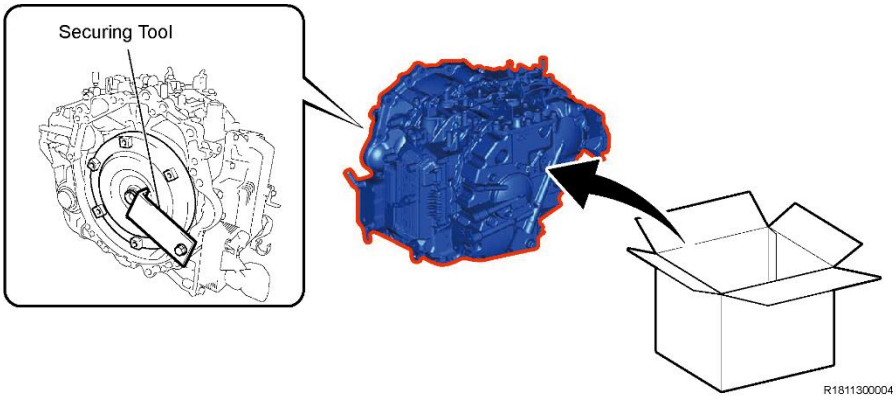
b. Follow the instructions in the previous section to install the Engine Support Bar.

c. Follow the instructions in the Repair Manual to remove the transaxle from the vehicle:

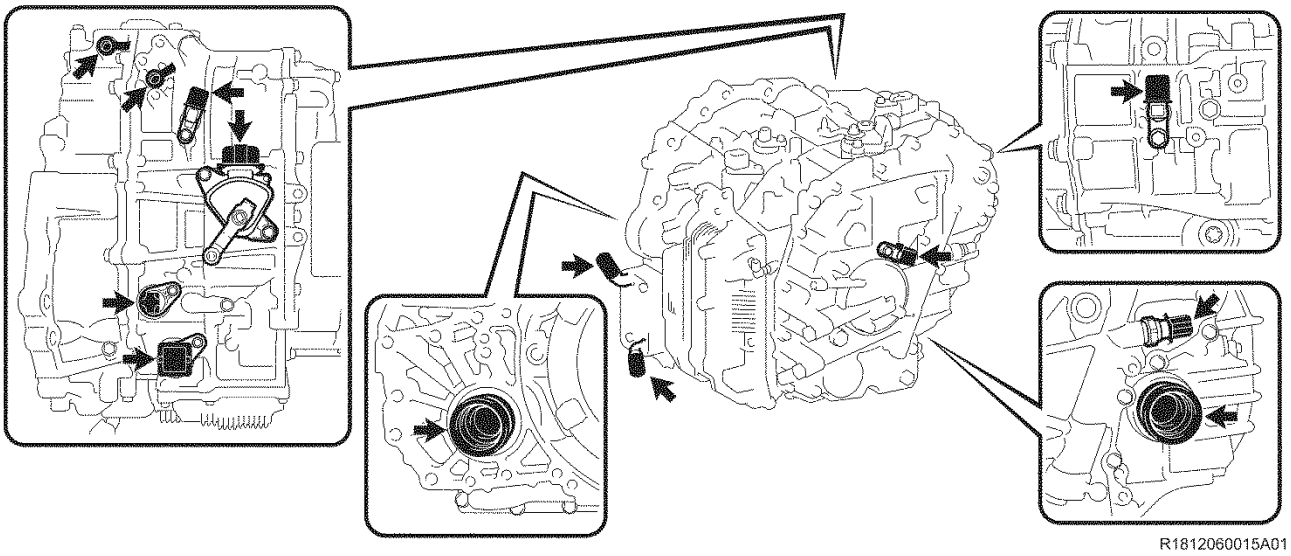
2019 Corolla Hatchback Transmission Removal
(RM100000001D0KQ)

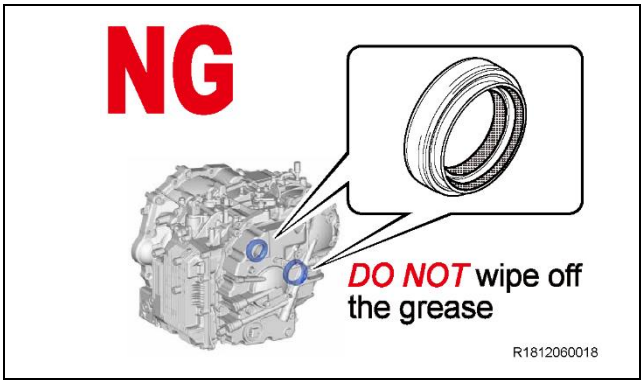
IX. *NEW* TRANSAXLE PREPERATION

1. **REMOVE THE *NEW* TRANSAXLE ASSEMBLY FROM THE PACKAGING**
2. **REMOVE THE TORQUE CONVERTER SECURING TOOL**



3. **DURING THE TRANSAXLE INSTALLATION PROCESS, REMOVE THE 13 CAPS FROM THE *NEW* TRANSAXLE ASSEMBLY WHEN NECESSARY.**





STOP ***DO NOT* wipe the grease off the front drive shaft oil seal. The *NEW* transaxle is already applied with grease.**

X. *NEW* TRANSAXLE INSTALLATION

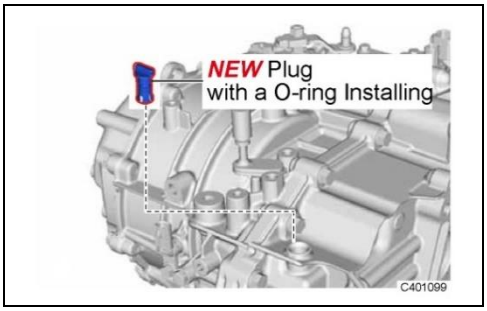
1. INSTALL *NEW* TRANSAXLE

d. In the following step, the Repair Manual Procedure will be used to install the transaxle. The following steps detailed in the manual will not be necessary to complete transaxle installation:

- Transaxle Housing Type T Oil Seal Installation
- Torque Converter Installation (the ***NEW*** transaxle will come with a ***NEW*** torque converter installed)

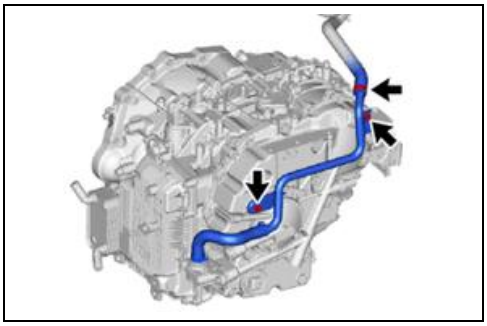
a. Follow the instructions in the Repair Manual to install the ***NEW*** transaxle into the vehicle:

2019 Corolla Hatchback Transmission Installation
(RM100000001D0KR)



2. INSTALL *NEW* CASE PLUG

a. Coat a ***NEW*** O-Ring with Toyota Genuine CVT fluid FE.
b. Install a ***NEW*** case plug assembly to the transaxle.

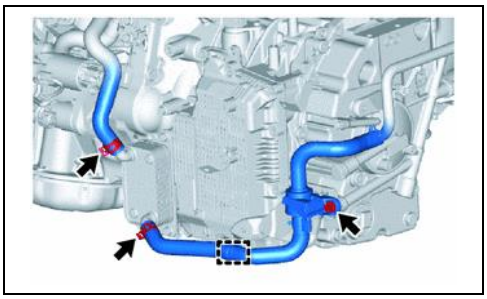


3. CONNECT COOLANT HOSES

a. Install the water by-pass pipe assembly to the transaxle with 2 bolts

Torque: 10 N·m (102 kgf·cm, 84 in.lbs)

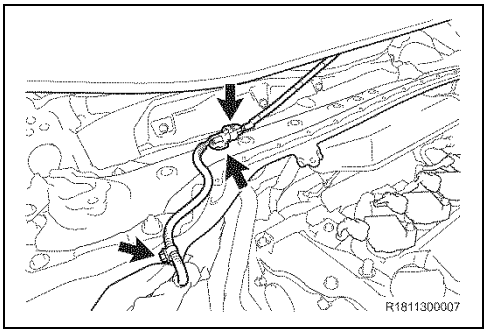
b. Connect the water by-pass hose assembly to the water by-pass pipe assembly and slide the hose clip to secure it.



c. Install the flow shutting valve to the water hose clamp bracket with bolt.

Torque: 19 N·m (194 kgf·cm, 14 ft.lbs)

d. Engage the clamp.
e. Connect the 2 water hoses to the transmission oil cooler and slide the 2 hose clips to secure them.



4. CONNECT WINDSHIELD DEICER SYSTEM (if equipped)

a. Connect the electrical connector and 2 clamps.

5. PERFORM WHEEL ALIGNMENT

a. Using a wheel alignment machine, adjust the front wheel toe.

XI. COMPLETE INITIALIZATIONS

FAILING TO COMPLETE THE FOLLOWING INITIALIZATIONS COULD RESULT IN A FAILURE OF THE NEW TRANSAXLE. Be sure the complete all the required initializations as detailed in the Repair Manual.

1. COMPLETE THE REQUIRED INITIALIZATIONS AFTER TRANSAXLE INSTALLATION

a. After the transaxle installation is complete, it will be necessary to complete the following initializations:

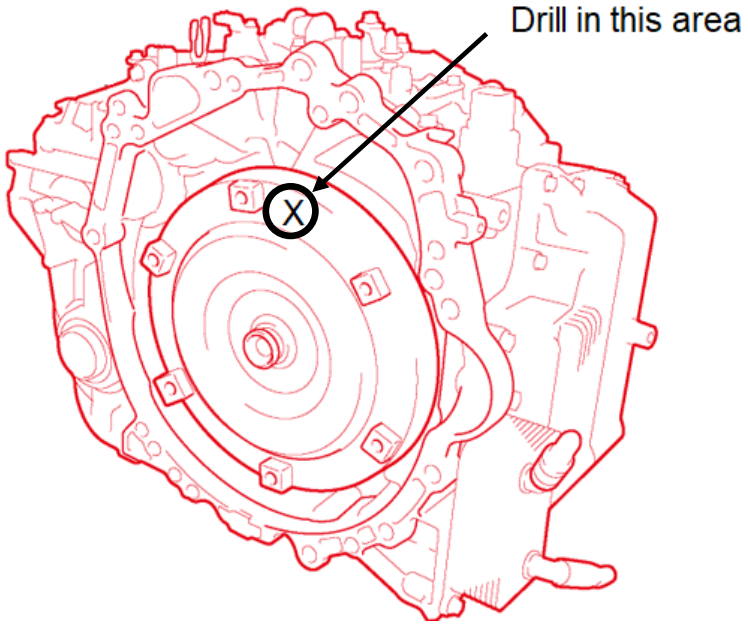
- **Transaxle Compensation Code**
- **Reset memory (Learned Values)**
- **Deceleration Sensor Zero Point Calibration**
- **CVT Oil Pressure Calibration**
- **Road Test**

Required Initializations after transaxle installation
(RM100000001D0WT)

XII. DISABLE ORIGINAL TRANSAXLE

1. DISABLE ORIGINAL TRANSAXLE

a. Drill a hole 1/8” or larger in the main body of the ORIGINAL torque converter.



Note: These transaxles will not be returned to AWTEC for remanufacturing. Follow the normal procedures of parts return and scrapping.

◄ VERIFY REPAIR QUALITY ►

- **Verify transmission fluid is full.**
- **Verity coolant system is properly bled.**
- **Verify System Initializations have been completed.**
- **Verify that the Road Test has been completed.**
- **Verify the original transaxle has properly been disabled.**

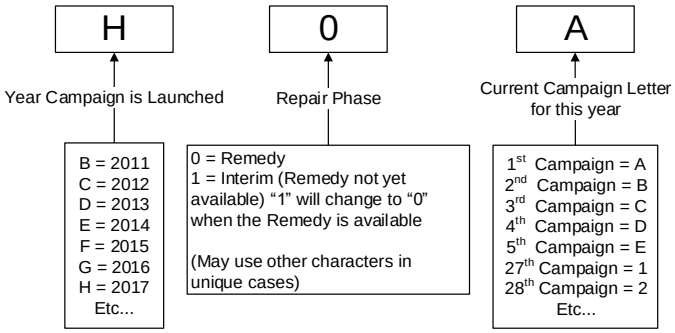
If you have any questions regarding this update, please contact your regional representative.

XIII. APPENDIX

A. PARTS DISPOSAL

As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return***.

B. CAMPAIGN DESIGNATION DECORDER



Examples:
C1B = Launched in 2012, Interim Phase, 2nd Campaign Launched in 2012
E0A = Launched in 2014, Remedy Phase, 1st Campaign Launched in 2014
H0A = Launched in 2017, Remedy Phase, 1st Campaign Launched in 2017.