

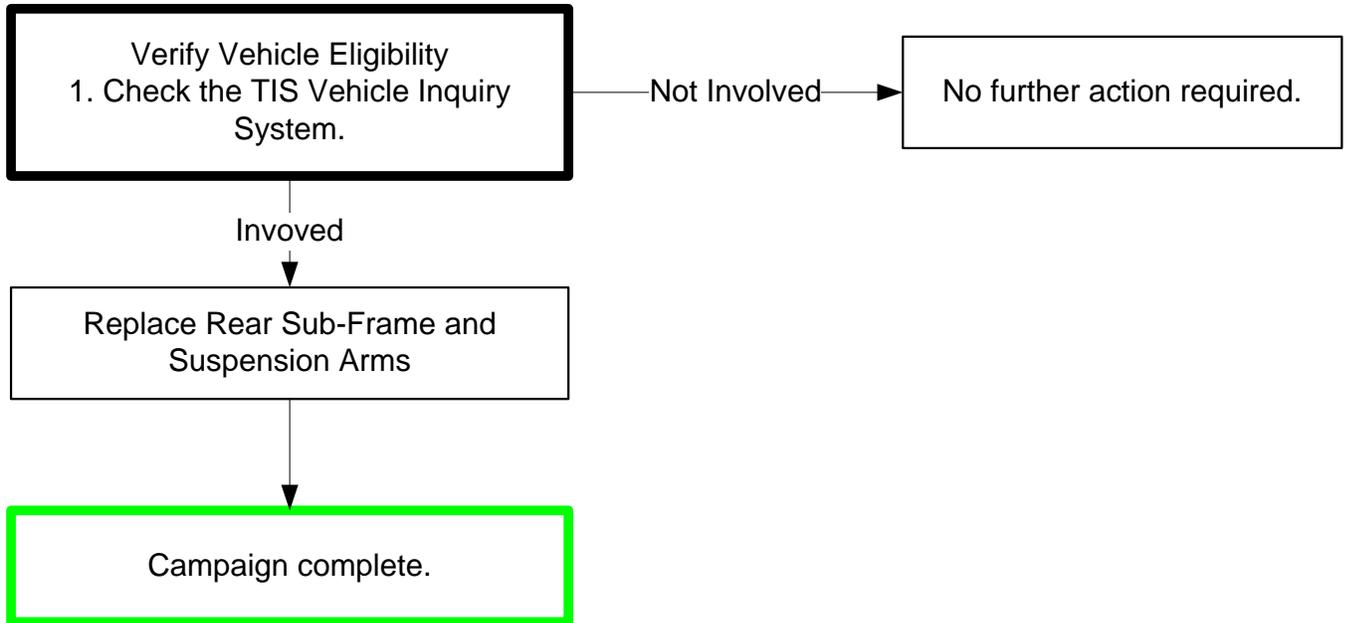
TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL F0K
REAR SUSPENSION ARM WITH TRD LOWERING KIT
CERTAIN 2015 MODEL YEAR SCION tC

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:

- Toyota Certified Chassis
- Toyota Expert Chassis
- Master
- Master Diagnostic Technicians

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

A. COVERED VIN RANGE

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

III. PREPARATION

A. PARTS

Part Number	Part Description	Quantity
51206-12161	Rear Sub-Frame	1
48740-75010	Rear Suspension Arm No. 2 Left	1
48730-75010	Rear Suspension Arm No. 2 Right	1
90119-12393	Bolt with Washer	6
90178-12009	Flange Nut	6
48830-12070	Rear Stabilizer Link	2
48817-12020	Stabilizer Cushion	2
48817-12030	Stabilizer Cushion	2
94184-61001	Lock Nut	2
90179-12027	Nut	2
17451-22060	Exhaust Pipe Gasket	1
90917-06045	Center Exhaust Pipe Gasket	1

B. TOOLS & EQUIPMENT

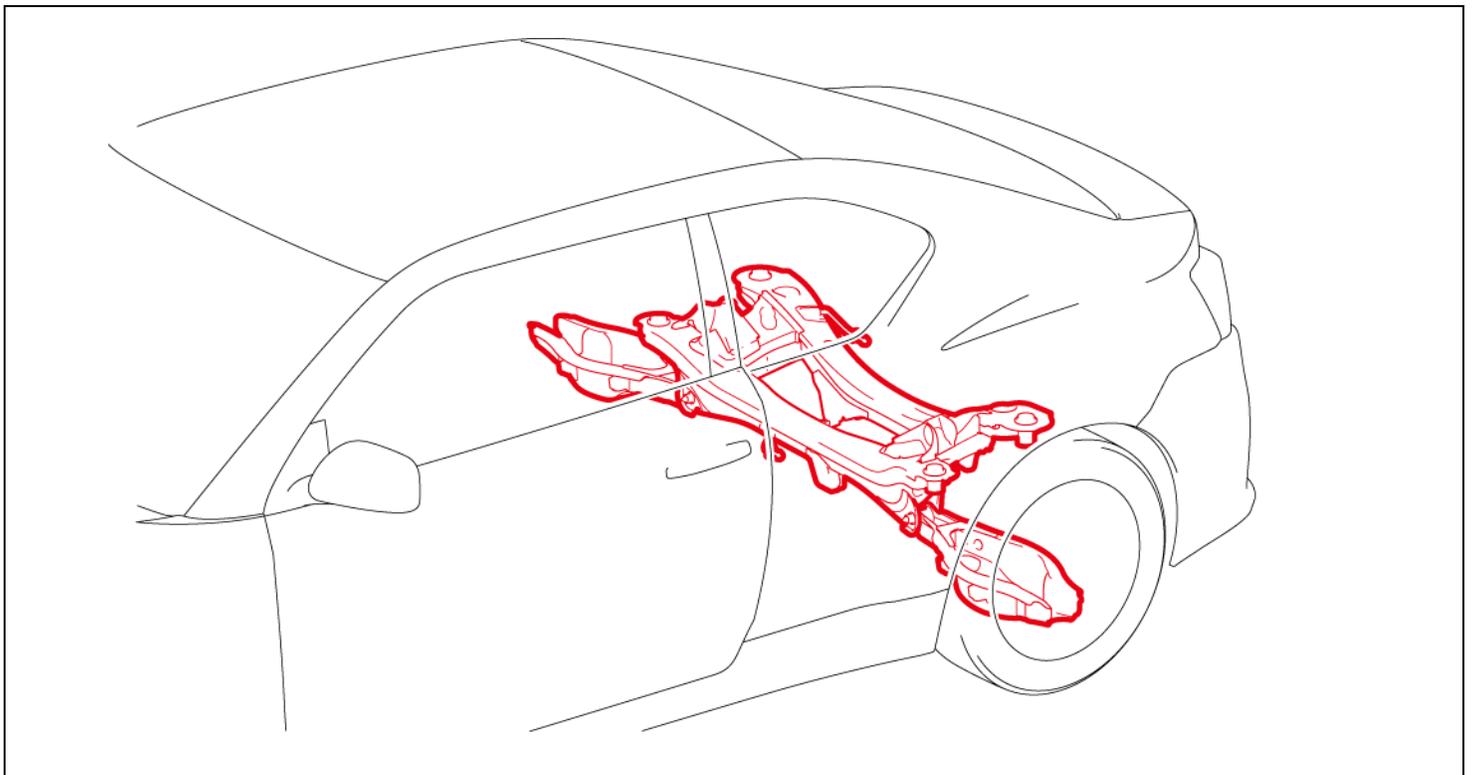
- Standard hand tools
- Techstream
- Torque wrench
- Alignment equipment
- Floor jack
- Transmission Jack

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

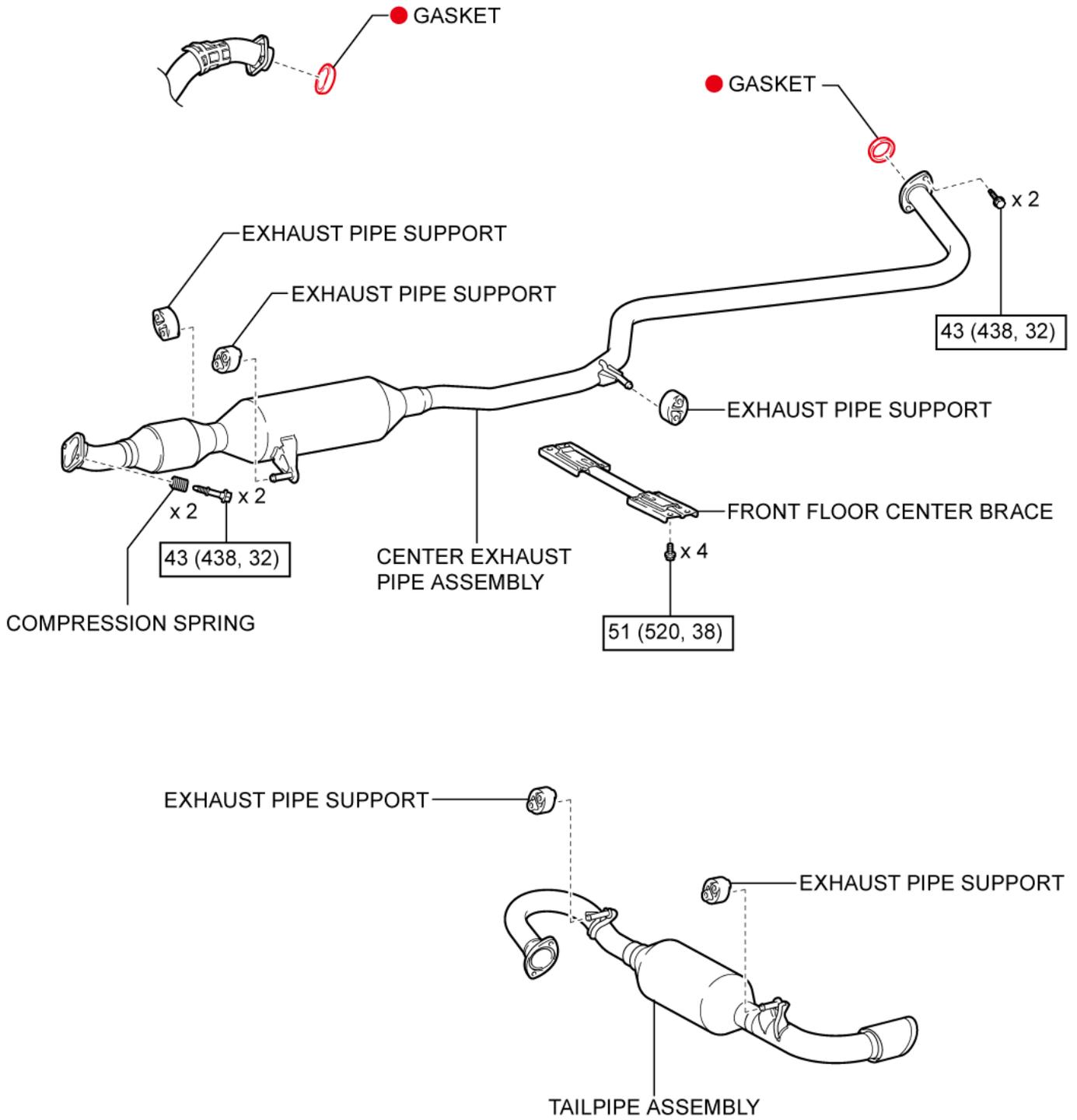
Part Number	Description	Quantity
09960-20010	Ball Joint Puller Set*	1
*The set includes the following		
09961-02010	Ball Joint Puller	1
09961-02060	Spacer B	1

IV. BACKGROUND

Scion offers an accessory coil spring as part of an optional package that is installed at vehicle processing facilities prior to sale to dealers. For the accessory installation, the rear suspension arm bolts and nuts on the subject vehicles are removed and then re-installed. There is a possibility that the rear suspension arm bolts and nuts on some vehicles could have been tightened improperly at two of the facilities at which the accessory coil springs are installed. In this condition, the bolts could become loose during vehicle operation. Under some circumstances the suspension arm could eventually detach, increasing the risk of a crash.



V. COMPONENTS



● Non-reusable part

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

A302298E01

REAR SUSPENSION
ARM COVER LH

12 (122, 9)

x 2

REAR DISC BRAKE CALIPER
ASSEMBLY LH

57 (585, 42)

x 2

BE CAREFUL!

Tighten by turning the bolt
while holding the nut.

90 (918, 66)

REAR UPPER CONTROL
ARM ASSEMBLY LH

200 (2039, 148)

x 2

REAR AXLE CARRIER
SUB-ASSEMBLY LH

PARKING BRAKE LEVER
PROTECTOR

100 (1020, 74)

REAR TRAILING ARM
ASSEMBLY LH

SKID CONTROL
SENSOR WIRE LH

NO. 3 PARKING BRAKE
CABLE ASSEMBLY

REAR SUSPENSION TOE ADJUST
CAM SUB-ASSEMBLY

100 (1020, 74)

90 (918, 66)

x 4

REAR AXLE HUB AND
BEARING ASSEMBLY LH

REAR NO. 1 SUSPENSION
ARM ASSEMBLY LH

REAR DISC

NO. 2 CAMBER ADJUST CAM

REAR DISC BRAKE DUST
COVER SUB-ASSEMBLY LH

● Non-reusable part

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

C287912E02

REAR DISC BRAKE CALIPER ASSEMBLY RH

PARKING BRAKE LEVER PROTECTOR

BE CAREFUL!
Tighten by turning the bolt
while holding the nut.

REAR AXLE HUB AND BEARING ASSEMBLY RH

REAR DISC

90 (918, 66)

REAR UPPER CONTROL ARM ASSEMBLY RH

57 (585, 42) x 2

NO. 2 PARKING BRAKE CABLE ASSEMBLY

REAR DISC BRAKE DUST COVER SUB-ASSEMBLY RH

REAR AXLE CARRIER SUB-ASSEMBLY RH

100 (1020, 74)

REAR TRAILING ARM ASSEMBLY RH

90 (918, 66) x 4

SKID CONTROL SENSOR WIRE RH

200 (2039, 148) x 2

REAR SUSPENSION ARM COVER RH

12 (122, 9) x 2

NO. 2 CAMBER ADJUST CAM

100 (1020, 74)

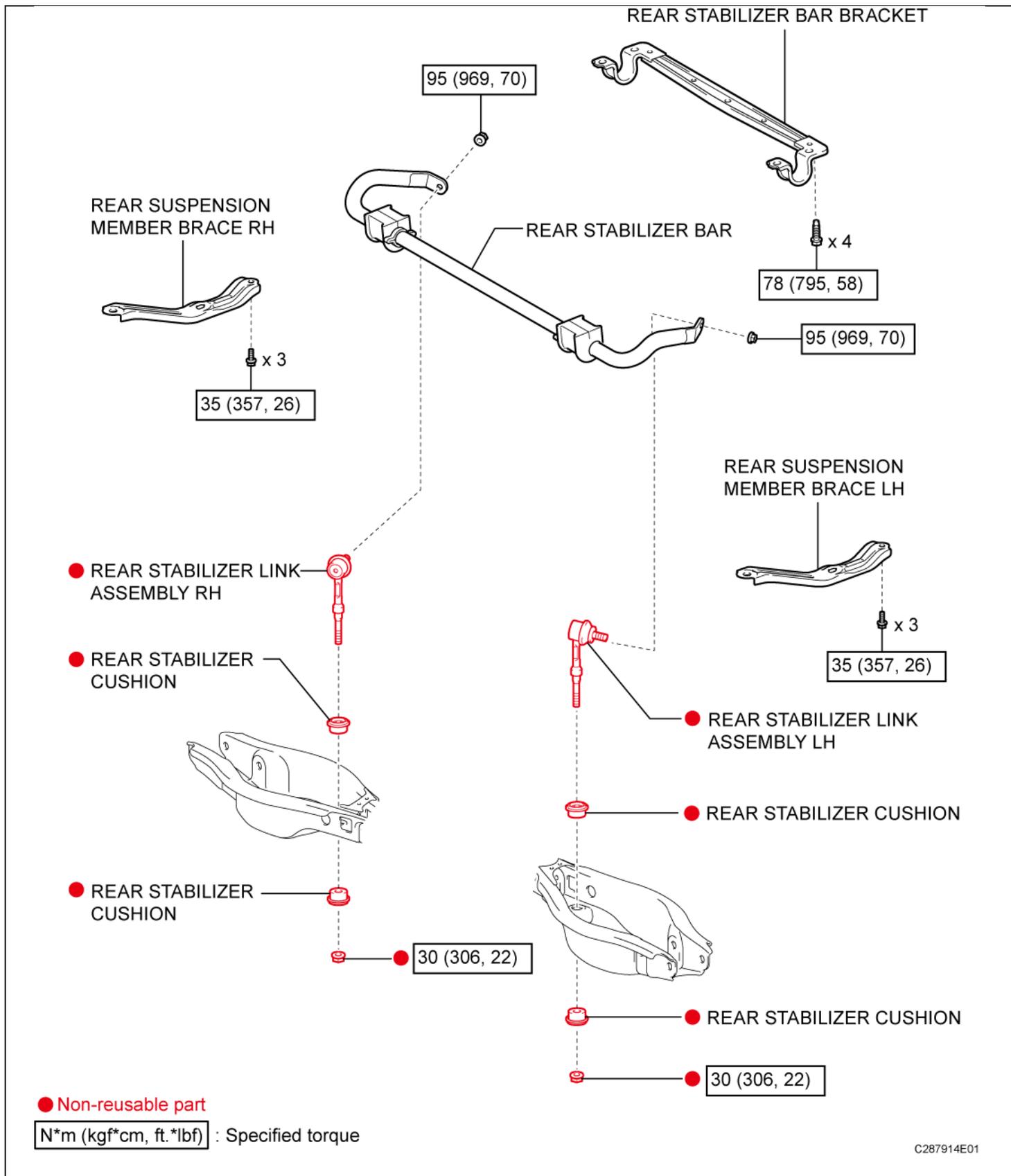
REAR SUSPENSION TOE ADJUST CAM SUB-ASSEMBLY

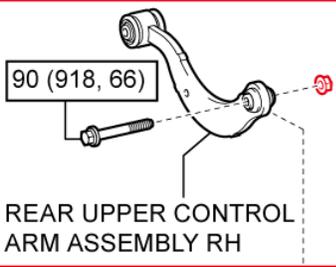
REAR NO. 1 SUSPENSION ARM ASSEMBLY RH

● Non-reusable part

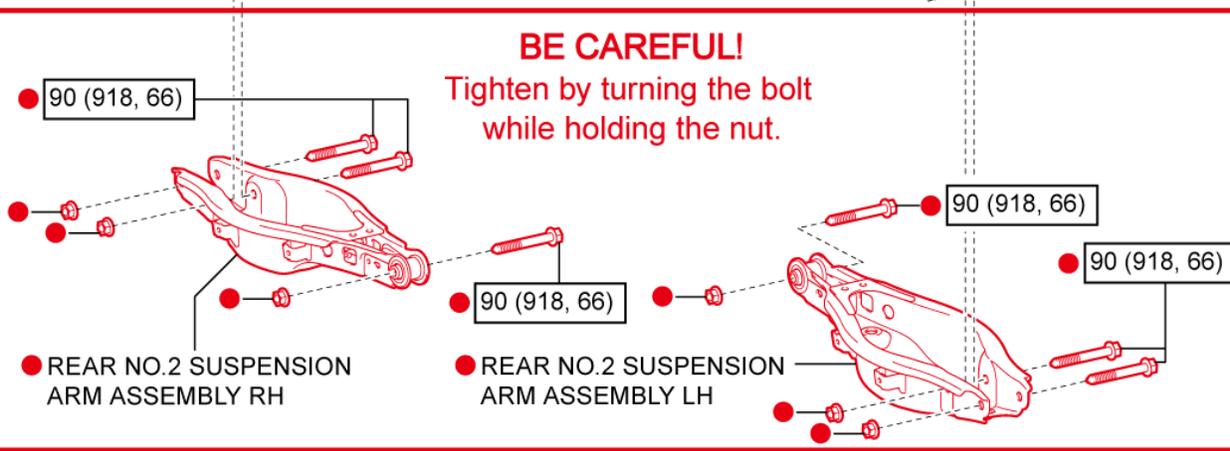
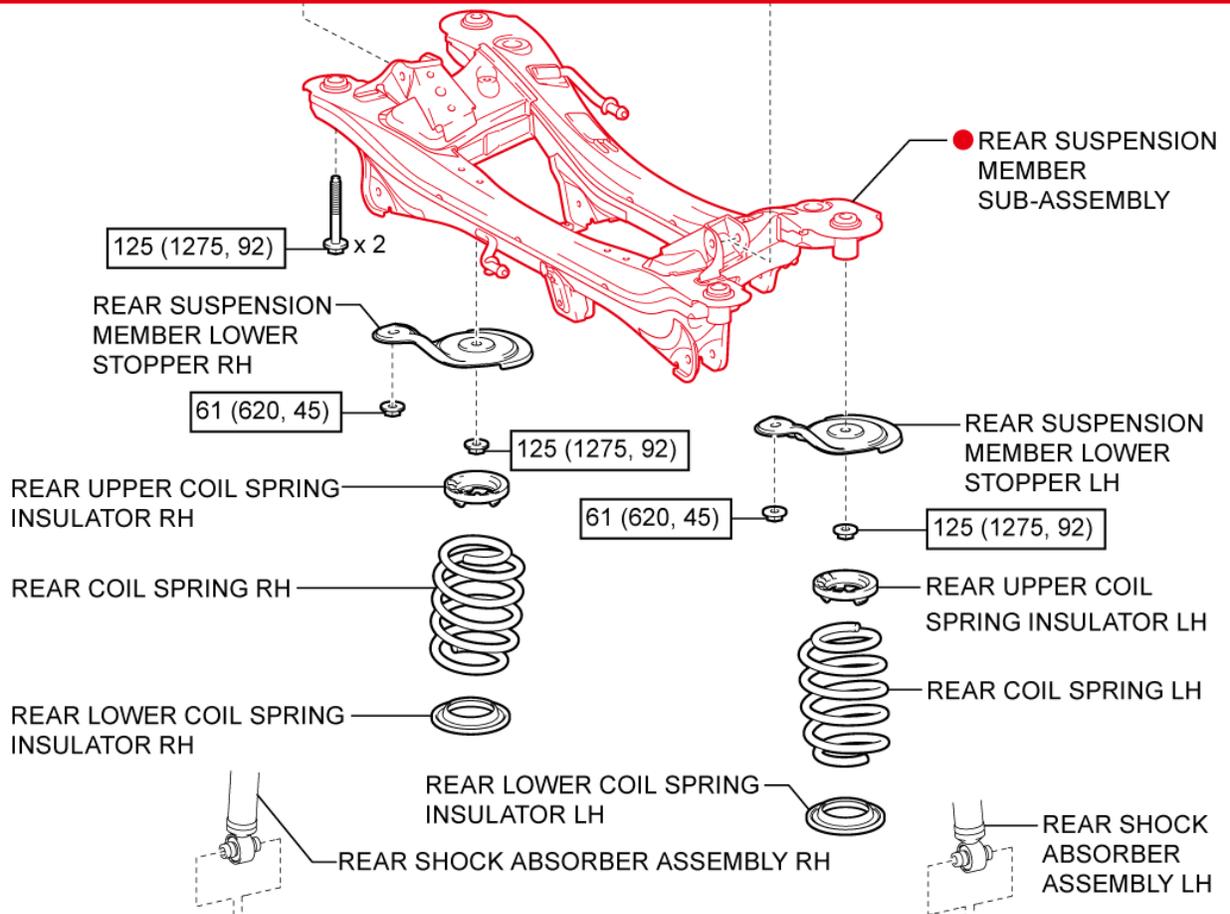
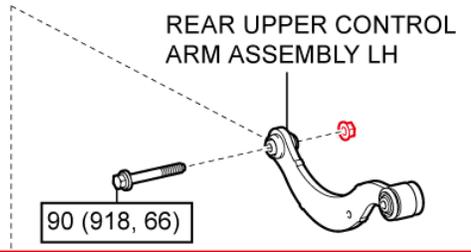
N*m (kgf*cm, ft.*lbf) : Specified torque

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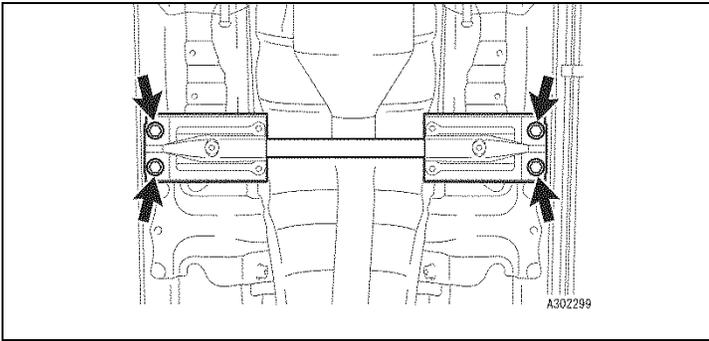


BE CAREFUL!
Tighten by turning the bolt while holding the nut.



● Replacement part
 [N*m (kgf*cm, ft.*lbf)] : Specified torque

VI. WORK PROCEDURE

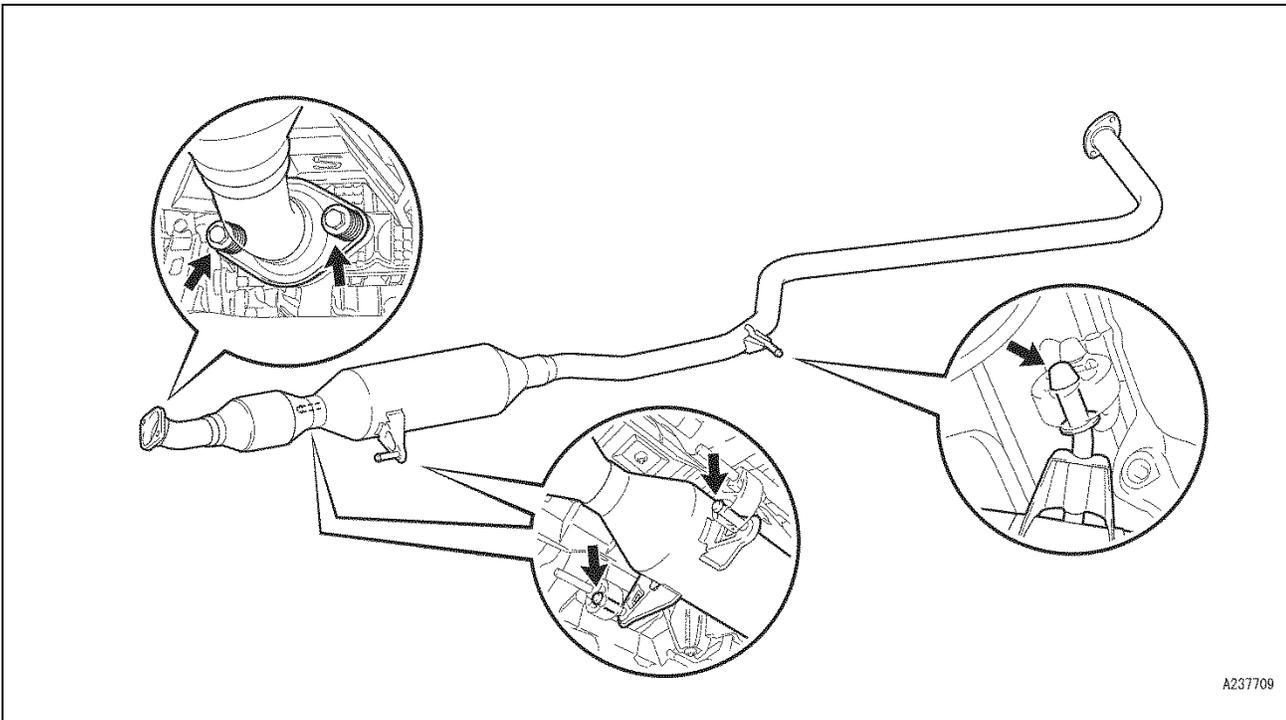


1. REMOVE CENTER EXHAUST PIPE

- a) Remove the 4 bolts for the center brace.
- b) Remove the 2 bolts that connect the center pipe and tailpipe.

NOTE: The tailpipe section of the exhaust will remain in the vehicle.

- c) Remove the 2 bolts and compression springs.
- d) Disconnect the 3 exhaust supports.
- e) Remove the center exhaust pipe.



2. REMOVE THE REAR SUB-FRAME AND SUSPENSION ARMS

Refer to the Technical Information System (TIS), using the applicable vehicle and model year.

[Scion tC](#)

3. PREPARE NEW SUB-FRAME AND INSTALL

a) The following new parts will be installed onto the new sub-frame:

Part Number	Part Description	Quantity
51206-12161	Rear Sub-Frame	1
48740-75010	Rear Suspension Arm No. 2 Left	1
48730-75010	Rear Suspension Arm No. 2 Right	1
90119-12393	Bolt with Washer	6
90178-12009	Flange Nut	6
48830-12070	Rear Stabilizer Link	2
48817-12020	Stabilizer Cushion	2
48817-12030	Stabilizer Cushion	2
94184-61001	Lock Nut	2
90179-12027	Nut	2

b) The following current rear suspension parts will be installed onto the new sub-frame:

Part Description
No.1 Rear Suspension Arms Left & Right
Rear Upper Arms Left & Right
Rear Suspension Covers Left & Right
Rear Stabilizer Bar
Rear Stabilizer Bar Braces Left & Right
Rear Stabilizer Bar Bracket
Rear Suspension Lower Stopper Left & Right
Rear Coil Springs Left & Right
Rear Coil Spring Upper and Lower Insulators Left & Right

c) Refer to the Technical Information System (TIS), using the applicable vehicle and model year.

Scion tC

NOTE: When installing the new rear sub-frame and suspension arms make note of the following new procedures.

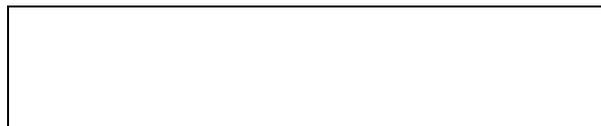
STOP When installing the rear upper control arms and new No. 2 rear suspension arms tighten by holding the nut steady and turning the bolt.

CAUTION: Avoid turning the nut as it may become loose overtime.

Torque: 90 N*m (918 kgf*cm, 66 ft.*lbf)

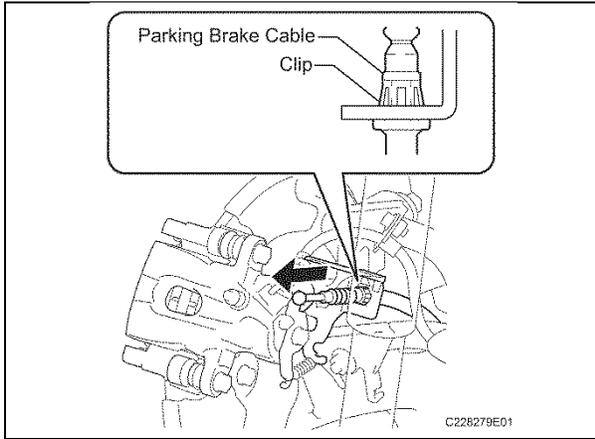
The nuts for the upper control arms DO NOT need to be replaced.

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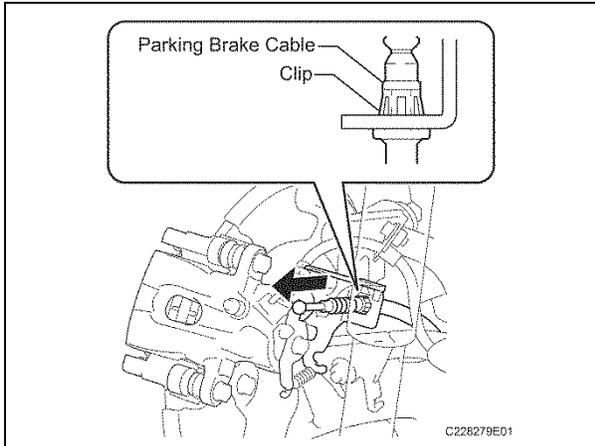


When reinstalling the parking brake cables:

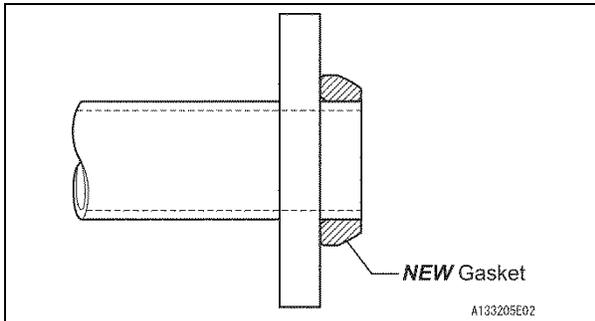
- a) Install the No. 3 parking brake cable into the bracket on the rear caliper.



NOTE: Ensure to engage the parking brake cable clip onto the bracket as shown.

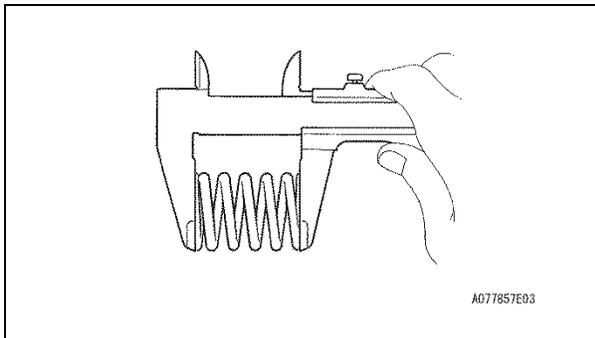


- b) Connect the parking brake cable to the actuating arm on the caliper.
- c) Reinstall the parking brake lever protector.
- d) Repeat on the other side.



When reinstalling the exhaust system:

- a) Check that the exhaust pipe gasket surface is clean.
- b) Install the new exhaust gasket as shown and ensure that the gasket is flush with the end of the pipe.



- c) Reinstall the center pipe and reconnect the 3 exhaust pipe supports.
- d) Measure the uncompressed length of the compression springs using a vernier caliper.

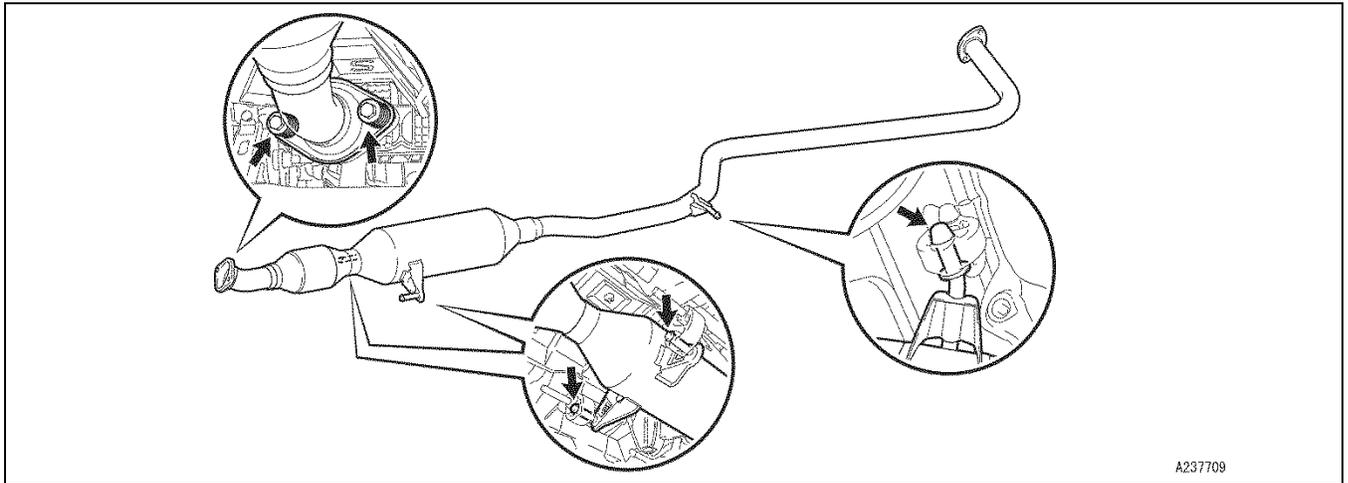
Minimum length: 41.5 mm (1.63in)

NOTE: If the spring length is less than the minimum replace the spring.

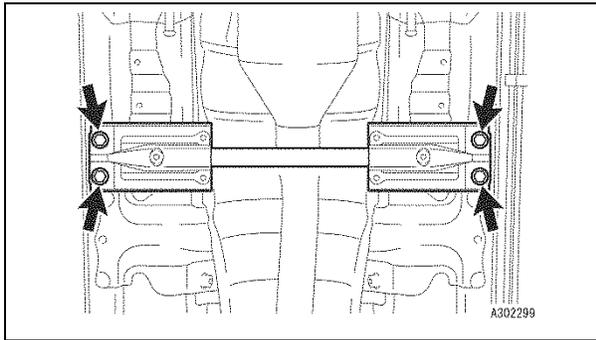
- e) Reinstall the compression springs and bolts.

TORQUE:

43 N*m (438 kgf*cm, 32 ft*lbf)



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f) Reinstall the center brace.

TORQUE:

51 N*m (520 kgf*cm, 38 ft*lbf)

g) Reinstall the bolts for the center pipe to the tail pipe.

TORQUE:

43 N*m (438 kgf*cm, 32 ft*lbf)

NOTE: Ensure that the exhaust is properly aligned and there is proper clearance with surrounding components.

◀ VERIFY REPAIR QUALITY ▶

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

VII. APPENDIX

A. CAMPAIGN DESIGNATION DECODER

