

FRONT SUBFRAME/STEERING GEARBOX AREA

Front Subframe/Steering Gearbox Area

Special Tool Required

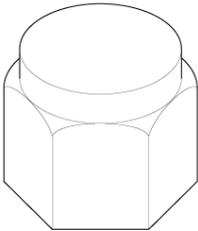
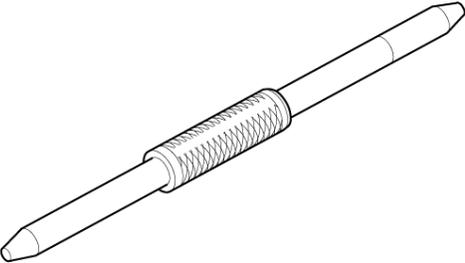
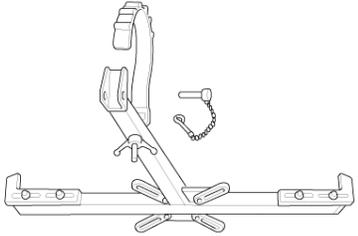
Image	Description/Tool Number
 A technical drawing of a ball joint thread protector, which is a hexagonal nut with a rounded top and a central hole.	Ball Joint Thread Protector, 12 mm 07AAF-SDAA100
 A technical drawing of a ball joint remover tool, featuring a metal frame with a central pivot point and a long, curved handle.	Ball Joint Remover, 28 mm 07MAC-SL00202
 A technical drawing of a subframe alignment pin, which is a long, thin metal rod with a textured grip section in the middle and a pointed end.	Subframe Alignment Pin 070AG-SJAA10S

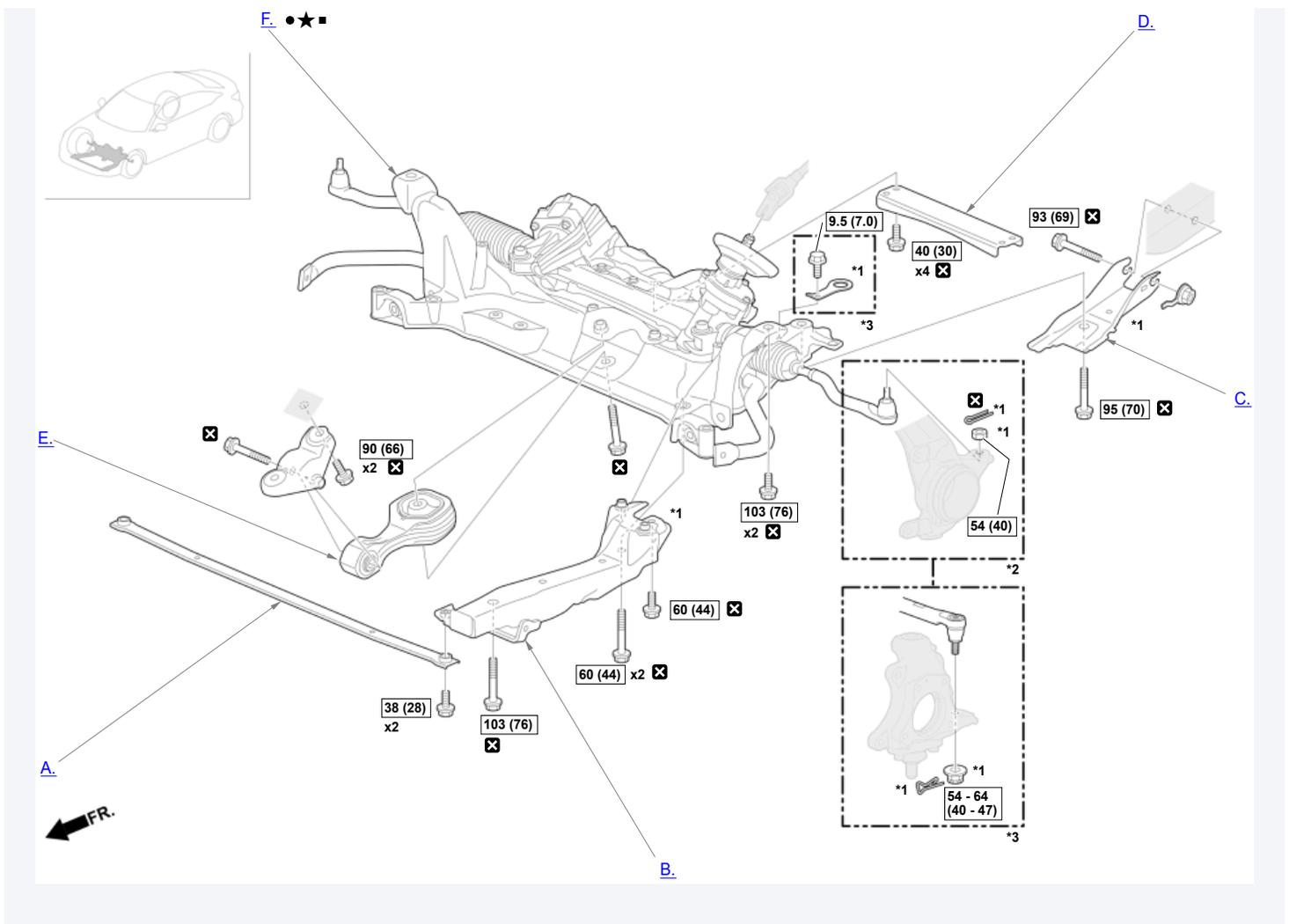
Image	Description/Tool Number
	Subframe Adapter VSB02C000016*

*: Available through the Honda Tool and Equipment Program 888-424-6857.

How to use this manual.

NOTE: Unless otherwise indicated, illustrations used in the procedure are for all models except Type-R.

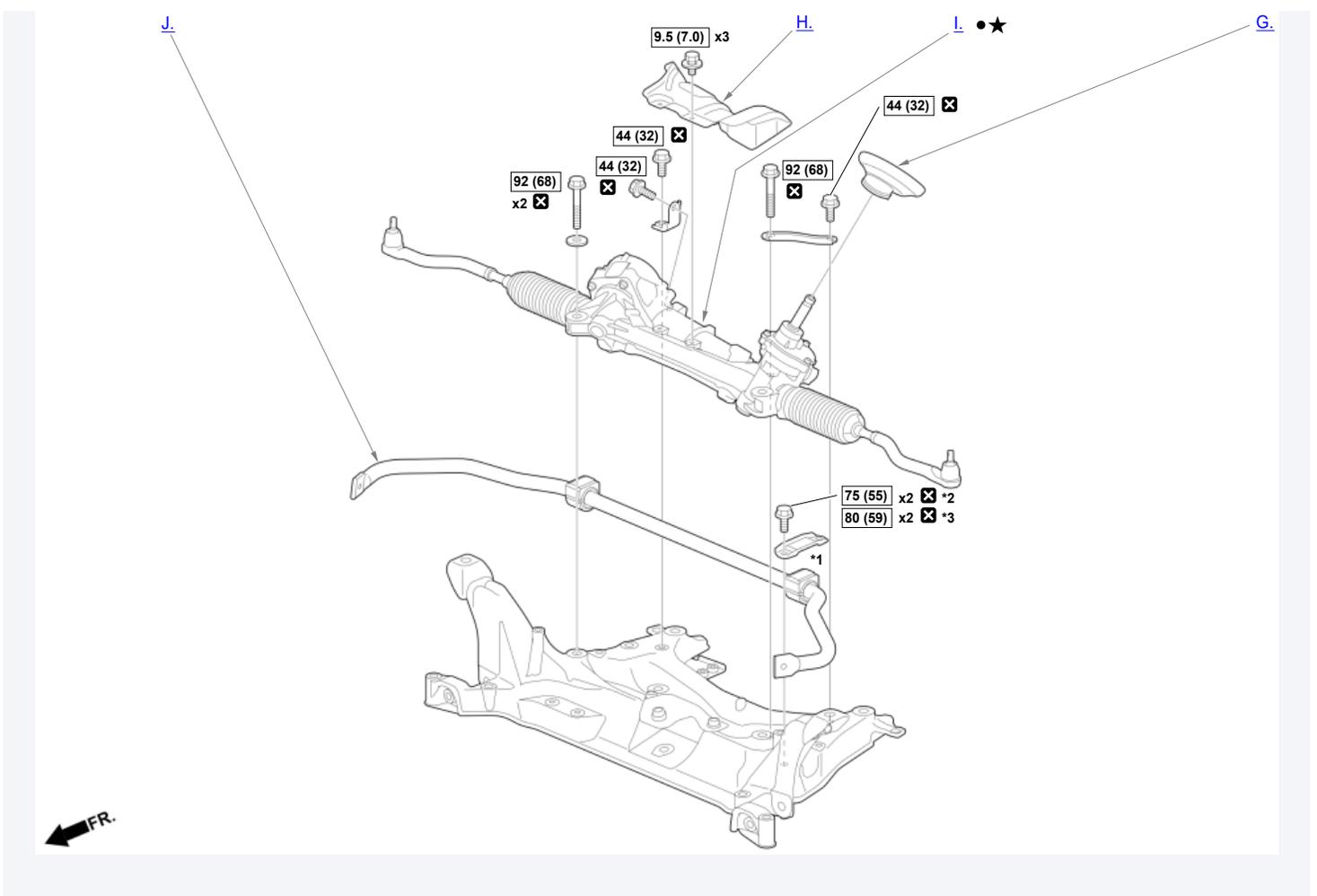
1



 : Torque, N-m (lbf-ft)	 :	 :	 :	★: Learning	■: SPL Tool	 : Required Removal
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*1: Part(s) are shown for one side only as the procedure is the same for both sides.
 *2: Except Type-R
 *3: Type-R

2



 : Torque, N-m (lbf-ft)	 :	 :	 :	★: Learning	■: SPL Tool	 : Required Removal
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*1: Part(s) are shown for one side only as the procedure is the same for both sides.
 *2: Except Type-R
 *3: Type-R

A. -

■ Key Information

Do the following before starting your work.

Remove:

- Engine Undercover

B. -

■ Key Information

Do the following before starting your work.

Remove:

- Engine Undercover

■ Sub-Procedure

● Installation

Tightening Procedure

Step	Operation	Object	Specification
1	Temporarily Tighten	All Bolts	—
2	Tighten	All Bolts	①→②→③→④



C. -

■ Key Information

Do the following before starting your work.

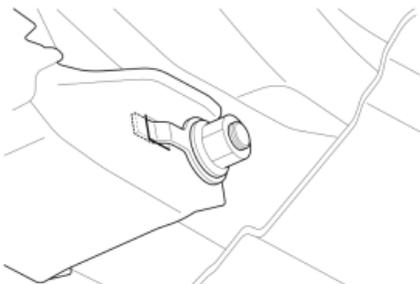
Remove:

- Engine Undercover

■ Sub-Procedure

● Installation

- Refer to the figure.



D. -

■ Key Information

Do the following before starting your work.

Remove:

- Engine Undercover

E. -

■ Key Information

Do the following before starting your work.

Remove:

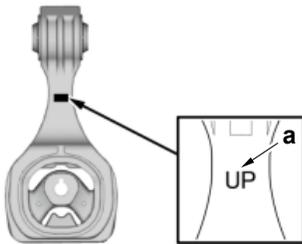
- Engine Undercover

■ Sub-Procedure

● Installation

Installation Directions

Mark	Direction
a	Upper Side



NOTICE

Do the mount tightening procedure before tightening all of the mount bolts.

F. -

■ Preconditions

- 12 Volt Battery Terminal Disconnected

■ Key Information

Do the following before starting your work.

Remove:

- Front Wheel (Both Sides)
- Engine Undercover (Type-R)
- Front Suspension Area Parts
 - Suspension Stroke Sensor (Both Sides) (Type-R)
 - Bolt (Front Lower Arm Assembly Rear Outer Side) (Both Sides)

Disconnect:

- Steering Joint

NOTICE

Do not turn the steering wheel while disconnecting the steering joint.

NOTE: If the center guide is in place, discard it.

- Rubber Mount (Exhaust Pipe A Front Subframe Side) (Except Type-R)
- Exhaust Mounting Bracket (Front Subframe Side) (Type-R)
- Front Suspension Area Parts

- Front Stabilizer Link (Front Stabilizer Bar Side) (Both Sides)
- Front Lower Arm Ball Joint (Both Sides) (Except Type-R)
- Housing Bracket (Both Sides) (Type-R)
- Stopper Link (Both Sides) (Type-R)

■ Sub-Procedure

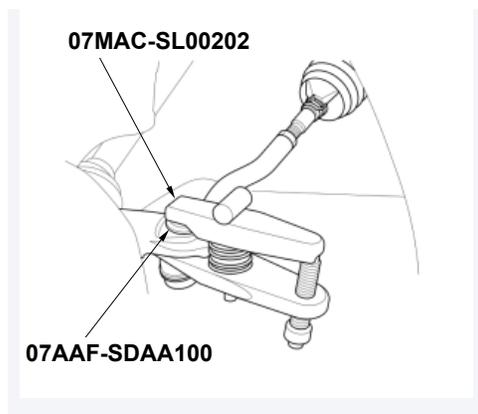
● Removal

1. Refer to figure 1.

NOTICE

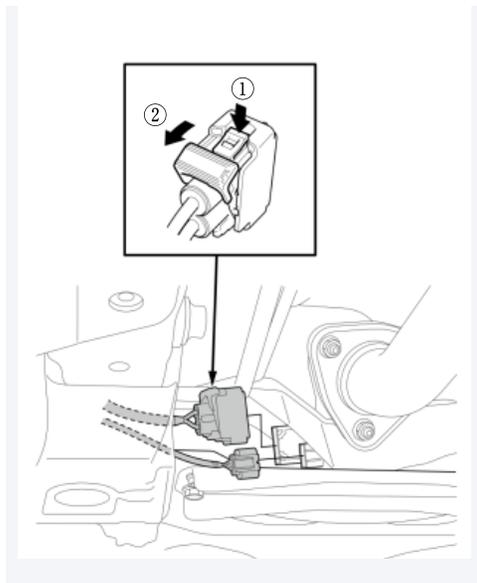
Be careful not to damage the ball joint boot when installing the ball joint remover. (Figure 1)

Figure 1



2. Refer to figure 2.

Figure 2

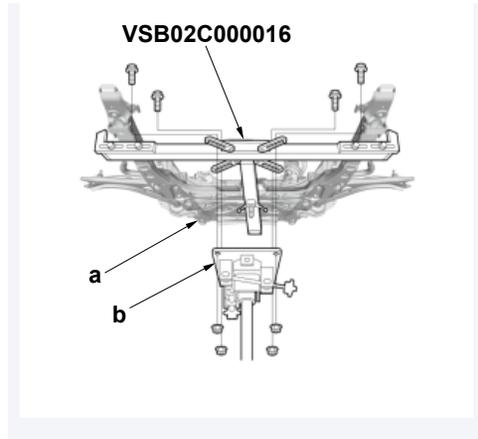


3. Attach the subframe adapter to the front subframe (a). (Figure 3)

Tool Details (Figure 3)

Name	
b	Transmission Jack (Commercially Available)

Figure 3



4. Raise a transmission jack and line up the slots in the subframe adapter arms with the bolt holes on the transmission jack base, then securely attach them with four bolts. (Figure 3)

● Installation

1. Refer to figure 4.

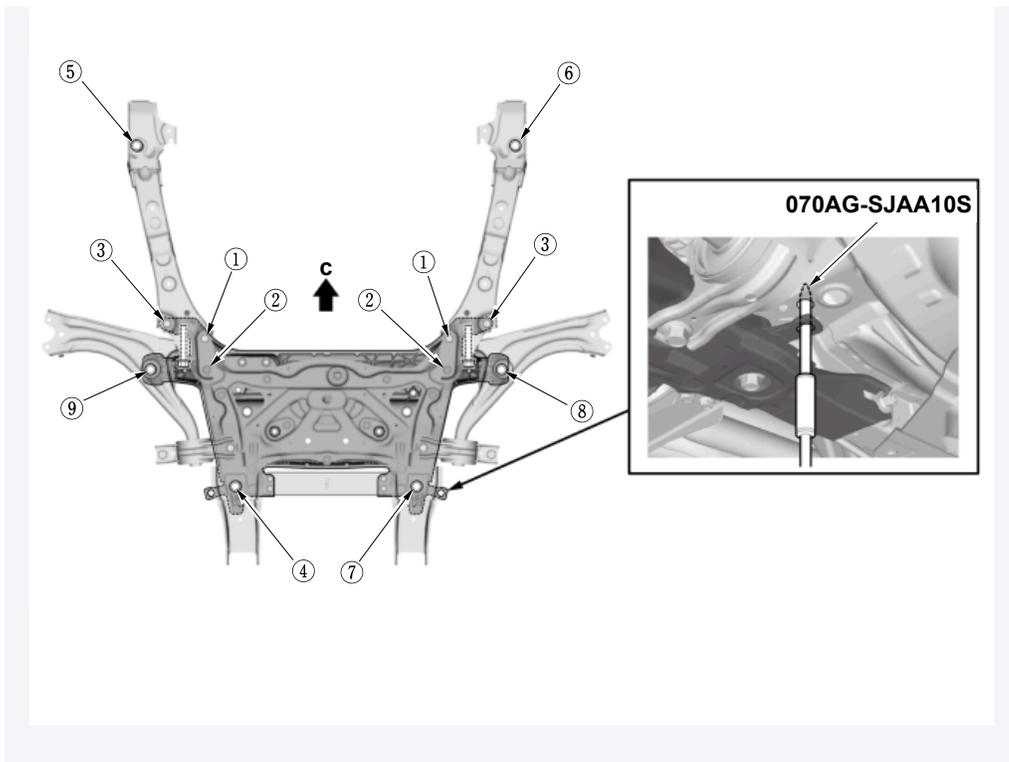
Installation Directions (Figure 4)

Position	Direction
c	Front

Tightening Procedure (Figure 4)

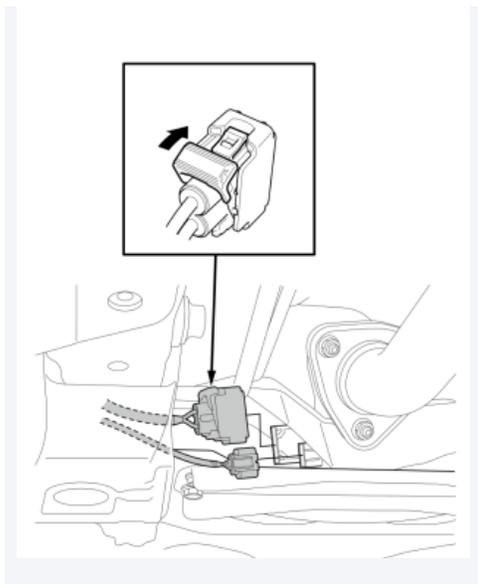
Step	Operation	Object	Specification
1	Temporarily Tighten	All Bolts	—
2	Align	Subframe	—
3	Tighten	All Bolts	①→②→③→④→⑤→⑥→⑦→⑧→⑨

Figure 4



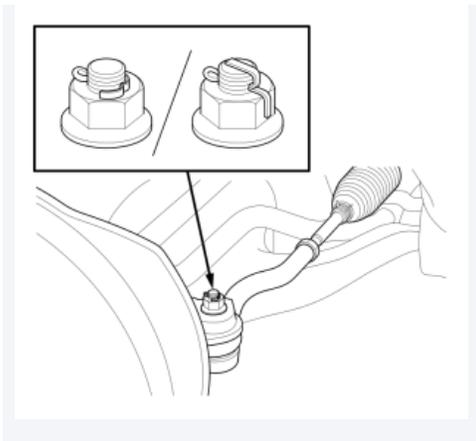
2. Refer to figure 5.

Figure 5



3. Except Type-R: Refer to figure 6.

Figure 6

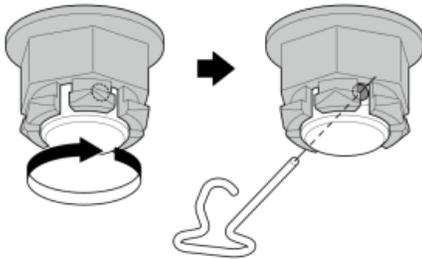


4. Type-R: Refer to figure 7.

NOTICE

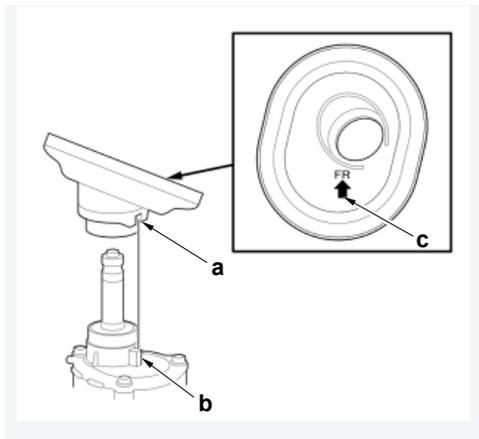
Torque the castle nut to the lower torque specification, then tighten it only far enough to align the slot with the ball joint pin hole. Never loosen the castle nut to align the pin hole.

Figure 7



■ **After Installation**

1. 12 Volt Battery Terminal Reconnect
2. Wheel Alignment Check
3. VSA Sensor Neutral Position Memorization



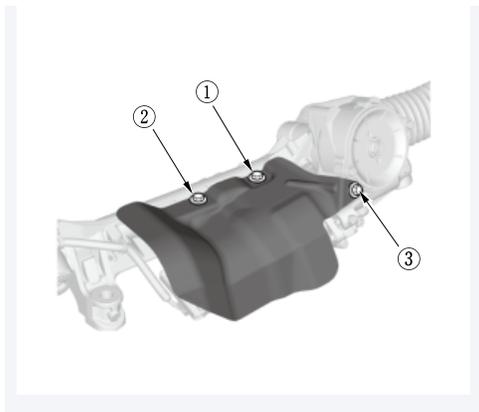
● Installation

- Align the cutout portion (a) with the lug portion (b).

Installation Directions

Position	Direction
c	Front

H. -



■ Sub-Procedure

● Installation

Tightening Procedure

Step	Operation	Object	Specification
1	Temporarily Tighten	①	—
2	Tighten	All Bolts	②→①→③

I. -

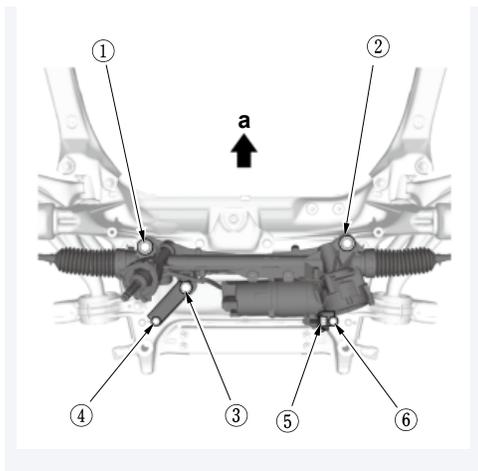
■ Preconditions

- 12 Volt Battery Terminal Disconnected

■ Key Information

NOTE: For the removal and installation procedure, refer to Steering Gearbox Removal and Installation and the sub-procedure below.

■ Sub-Procedure



● Installation

Installation Directions

Position	Direction
a	Front

Tightening Procedure

Step	Operation	Object	Specification
1	Temporarily Tighten	All Bolts	—
2	Tighten	All Bolts	①→②→③→④→⑤→⑥

■ After Installation

1. 12 Volt Battery Terminal Reconnect
2. ECU Key Write (When replacing the steering gearbox)
3. EPS Control Unit Update (When replacing the steering gearbox)
4. Check these items:
 - With the front wheels straight ahead, make sure the steering wheel is centered and the turning revolutions from center to full lock (left and right) is equal. If not, check the installation of the steering wheel and the engagement of the joint/pinion shaft splines.
 - With the tires raised off the ground, check for noise and abnormality by turning the steering wheel fully to the right and left several times.
 - Check the power steering assist.
 - Check that the EPS indicator does not come on.
5. Wheel Alignment Check
6. VSA Sensor Neutral Position Memorization

J. -

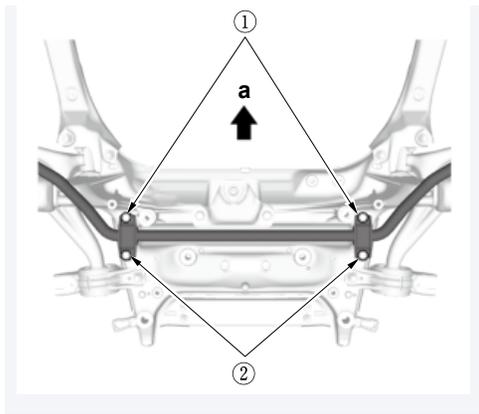
NOTICE

Before the removal and installation procedure, refer to Tightening Procedure of Bushing.

■ Key Information

NOTE: For the removal and installation procedure, refer to Front Stabilizer Bar Removal and Installation and the sub-procedure below.

■ Sub-Procedure



● Installation

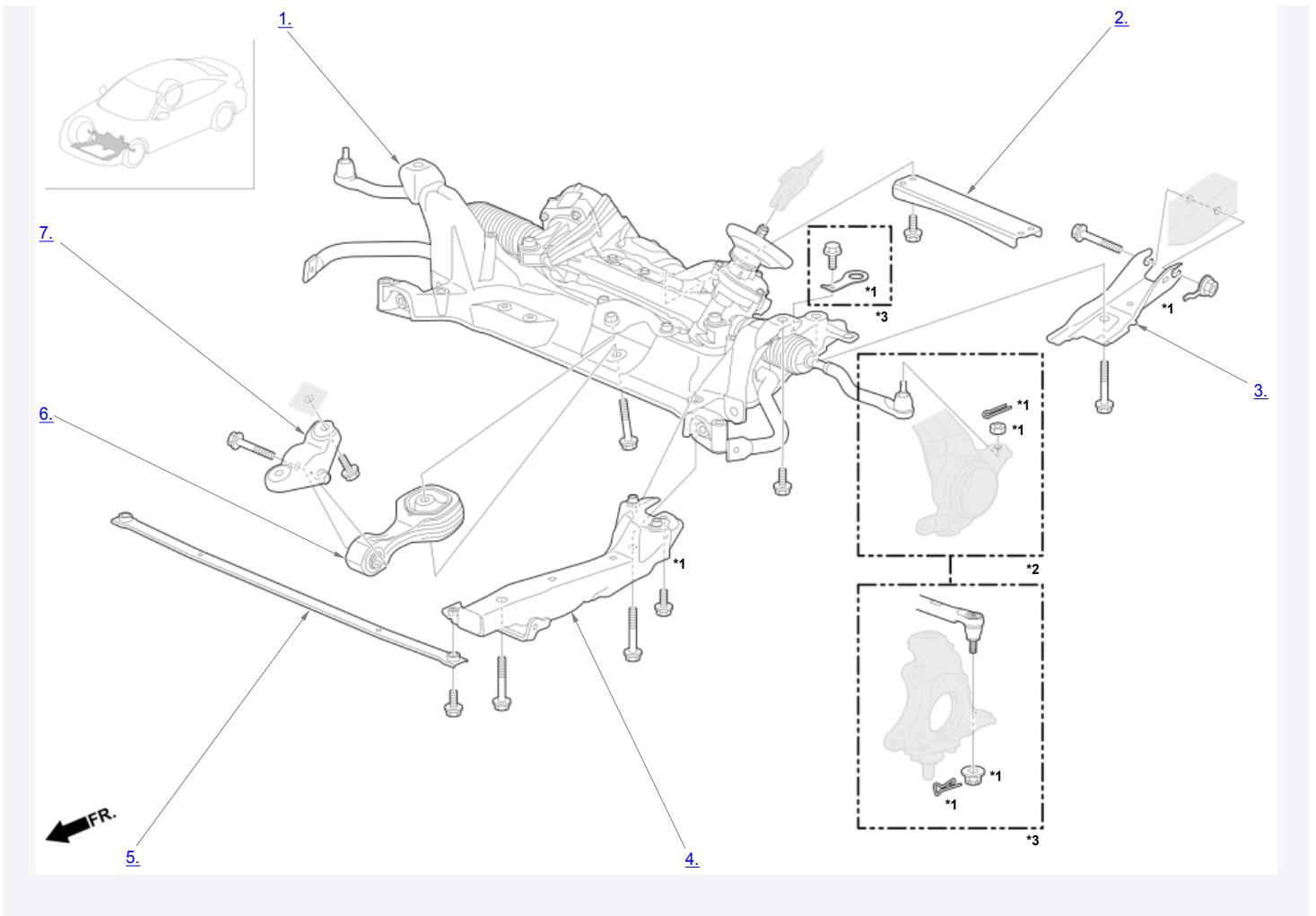
Installation Directions

Position	Direction
a	Front

Tightening Procedure

Step	Operation	Object	Specification
1	Temporarily Tighten	①	—
2	Tighten	All Bolts	②→①

1

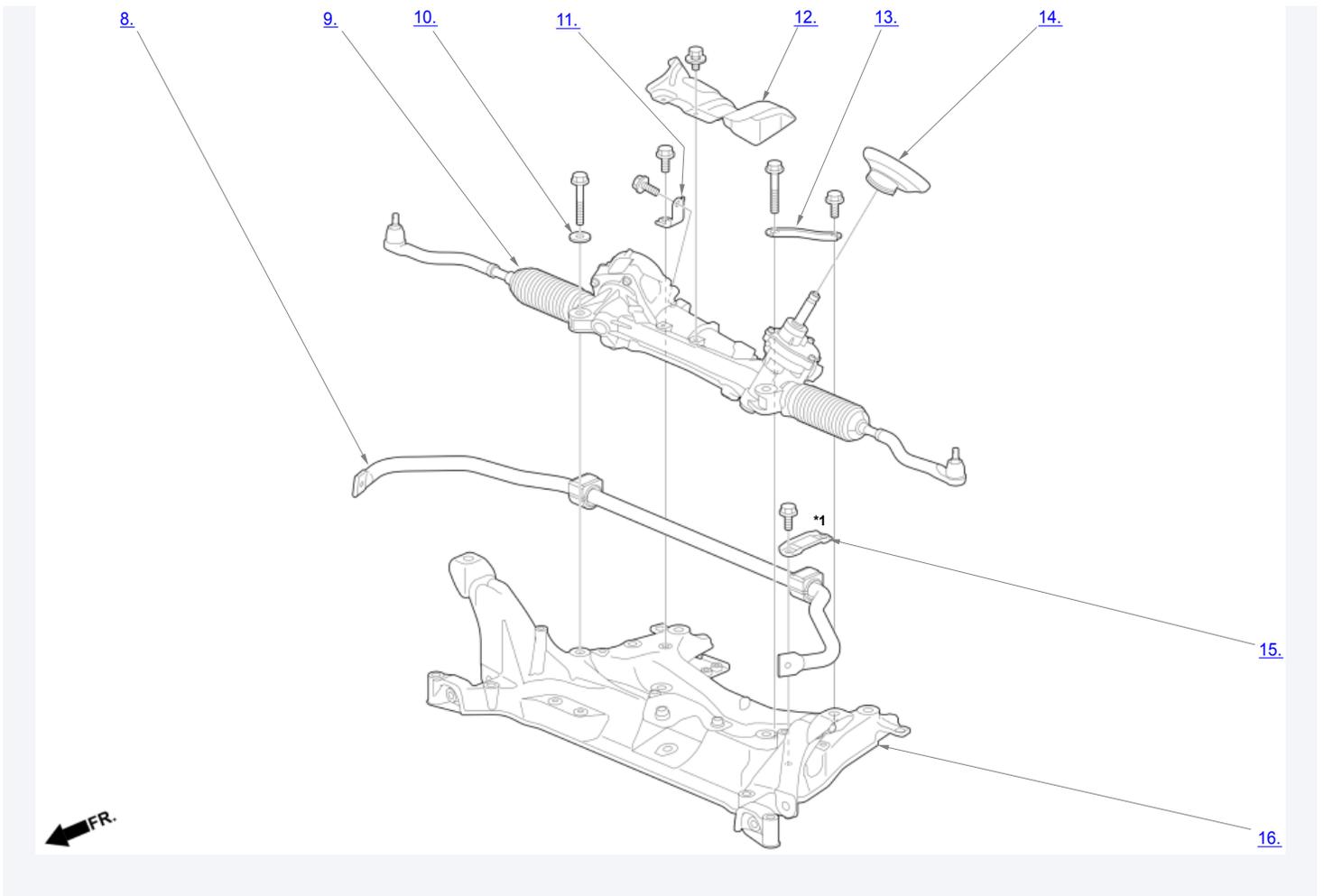


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*2: Except Type-R

*3: Type-R

2



*1: Part(s) are shown for one side only as the procedure is the same for both sides.

1. Front Subframe/Steering Gearbox Assembly

2. Front Subframe Brace Rear

3. Front Subframe Rear Stay

4. Front Subframe **Member** Extension

5. Front Brace

6. Torque Rod

7. Torque Rod Bracket

8. Front Stabilizer Bar

9. Steering Gearbox

10. Washer

11. Steering Gearbox Right Stiffener

12. Power Steering Heat Baffle Plate

13. Steering Gearbox Left Stiffener

14. Pinion Shaft Grommet

15. Bushing Holder

16. Front Subframe