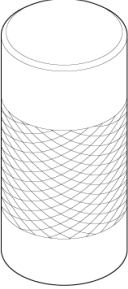


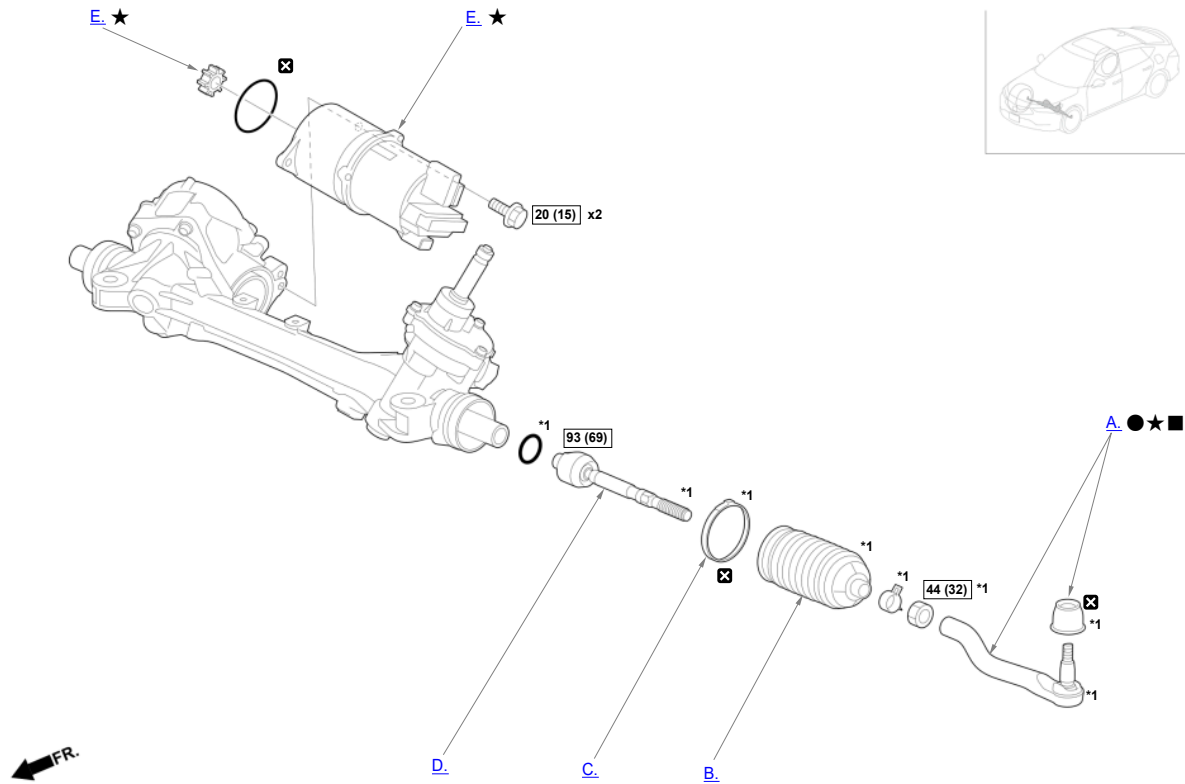
Steering Gearbox Components




Special Tool Required

Image	Description/Tool Number
	Driver, 32.5 mm 070AD-SAAA100

How to use this manual.

1



 : Torque, N·m (lbf·ft)	 : Replace	 : Warning/Caution	 : Inspection/Adjustment	★ : 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.

NOTE: The tie-rod end ball joint boot can be removed without removing the steering gearbox.

■ Key Information

Do the following before starting your work.

Remove:

- Front Wheel

Disconnect:

- Tie-Rod End

■ Sub-Procedure

NOTICE

Do not allow dust, dirt, or other foreign materials to enter the boot.

● Removal

NOTICE

When replacing the tie-rod end ball joint boot, remove the tie-rod end.

● Installation

1. Pack the lower area of the ball pin, the interior of the ball joint boot, and the lip with fresh multipurpose grease.

Lubricant Specifications (Figure 1)

Position	Type
a	Service Set Grease

2. Keep grease off the boot mounting area (b) and the tapered section of the ball pin (c). (Figure 1)

3. Press the boot until the bottom seats on the ball joint housing. (Figure 2)

Specifications (Figure 2)

Specification
d

Figure 1

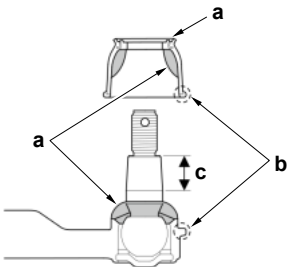
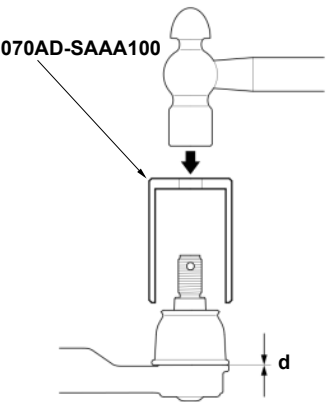


Figure 2



■ After Installation

1. If grease contaminates to the tapered section of the ball pin and the screw section, wipe off the grease completely.
2. Wheel Alignment Check
3. VSA Sensor Neutral Position Memorization

B. -

■ Sub-Procedure

NOTICE

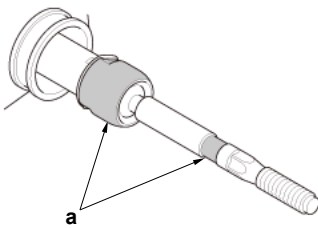
Do not allow dust, dirt, or other foreign materials to enter the steering gearbox.

● Installation

Lubricant Specifications

Position	Type
a	Multipurpose Grease

- Fit the boot ends properly into the grooves.



■ After Installation

- Wipe the grease off the threaded section of the rack end.

C. -

■ Sub-Procedure

● Installation

NOTICE

The standard value of the ear clamping width differs depending on the boot identification mark (a). (Figure 1)

Figure 1

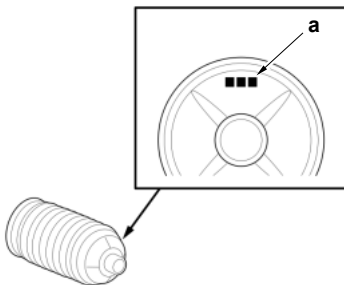
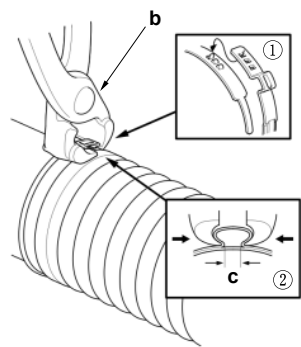


Figure 2



Tool Details (Figure 2)

Name	
b	Pincers 1098 (Oetiker) (Commercially Available) or Equivalent Tool

Specifications (Figure 2)

Position	Mark	Standard Value
c	T5A or 3W0	3.6 mm (0.142 in) max.
	T5G	1.4 mm (0.055 in) max.

■ After Installation

- Slide the rack right and left to be certain that the boots are not deformed or twisted.

D. -

■ Sub-Procedure

NOTICE

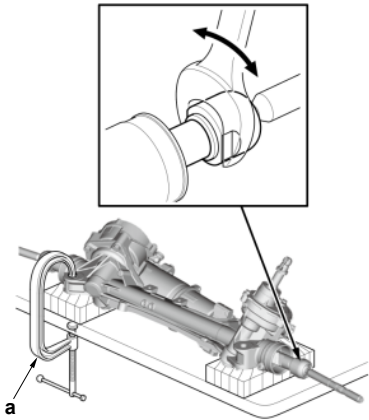
- Do not allow dust, dirt, or other foreign materials to enter the steering gearbox.
- Do not clamp the cylinder part of the gearbox housing in a C-clamp.
- Be careful not to damage the mounting surface with a C-clamp.
- Be careful not to damage the rack surface.

● Removal/Installation

- Refer to the figure.
NOTE: Hold the right side steering rack flat surfaces with a wrench when unscrewing left side rack end.

Tool Details

Name	
a	C-clamp (Commercially Available) or Equivalent Tool



E. -

■ Preconditions

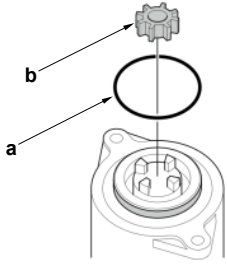
- 12 Volt Battery Terminal Disconnected

■ Sub-Procedure

● Installation

Lubricant Specifications (Figure 2)

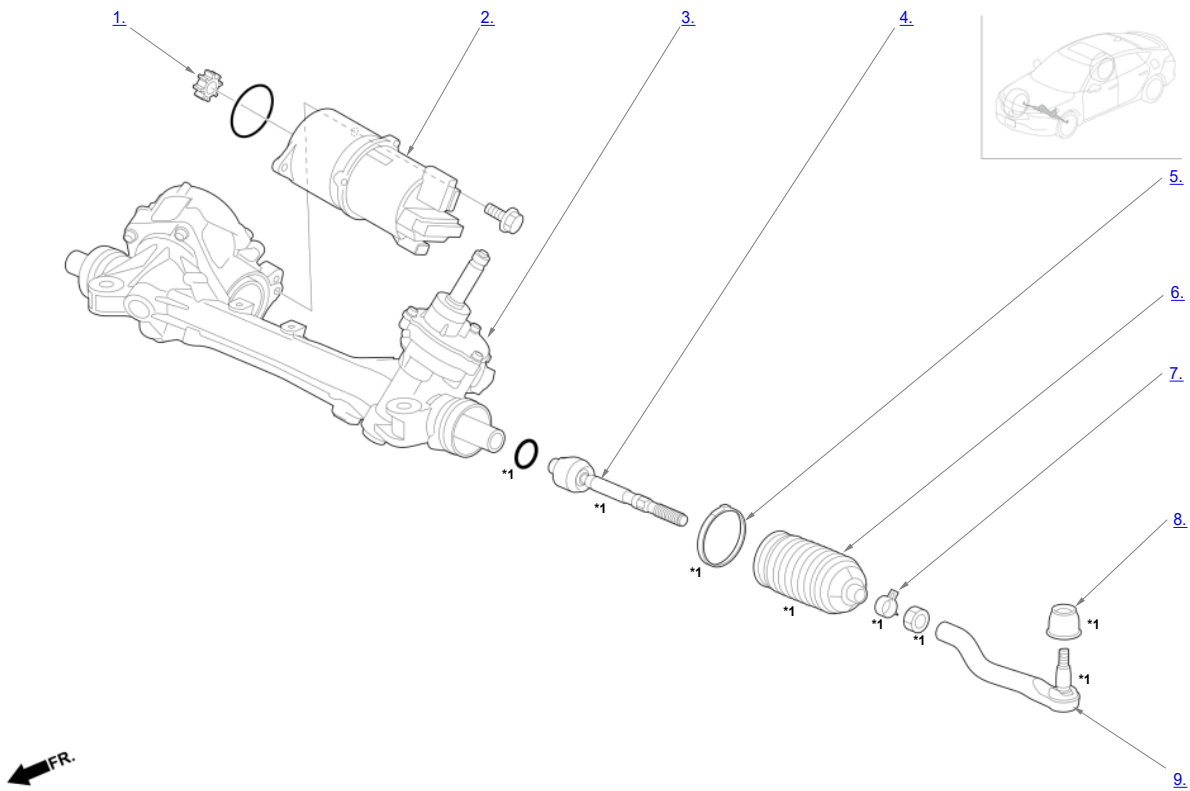
Position	Type
a	Steering Grease or Equivalent
b	Molykote G-1076 Grease or Noxlub TLC 1010 or Equivalent



■ After Installation

1. ECU Key Write (When replacing the EPS motor/control unit).
2. EPS Control Unit Update (When replacing the EPS motor/control unit).
3. VSA Sensor Neutral Position Memorization

1



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

1. Motor Bush

2. EPS Motor/Control Unit

3. Steering Gearbox

4. Rack End

5. Boot Band

6. Boot

7. Tie-Rod Clip

8. Tie-Rod End Ball Joint Boot

9. Tie-Rod End