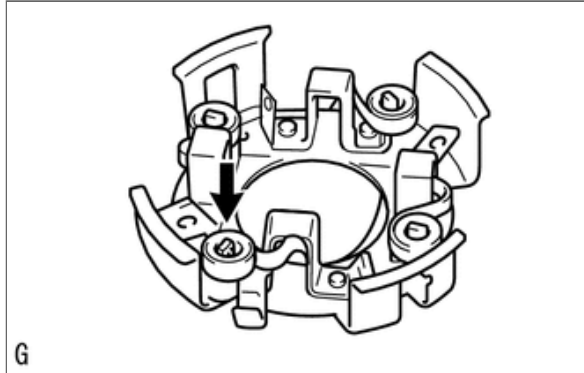


PROCEDURE

1.INSTALL WINCH MOTOR BRUSH SPRING

38613B

a.

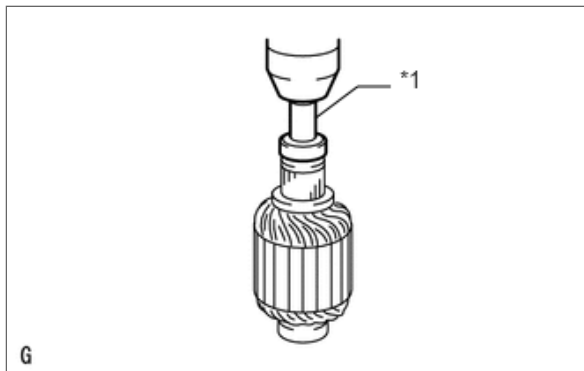


Install the brush spring as shown in the illustration.

2.INSTALL NO. 1 WINCH MOTOR ARMATURE BEARING

38603B

a.



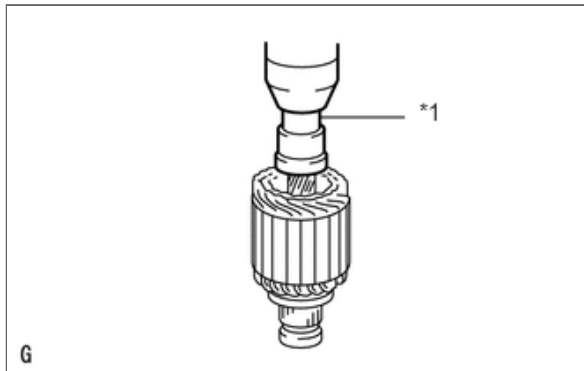
*1	12 mm Socket Wrench
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Using a 12 mm socket wrench and press, press in a new bearing.

3.INSTALL NO. 2 WINCH MOTOR ARMATURE BEARING

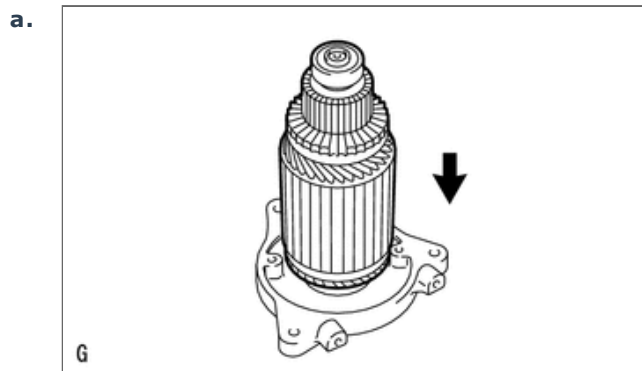
38603C

a.



*1	19 mm Socket Wrench
----	---------------------

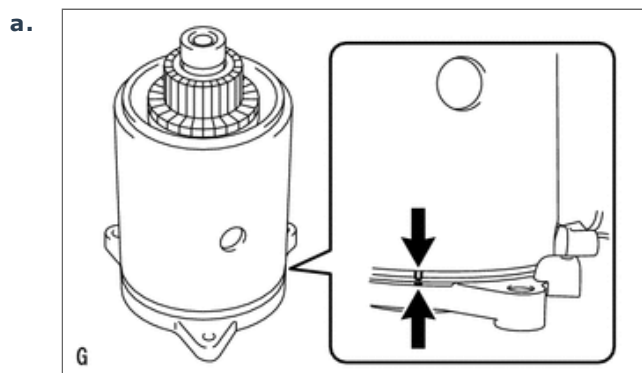
Using a 19 mm socket wrench and press, press in a new bearing.



Apply high temperature grease to the inside of the end frame bushing.

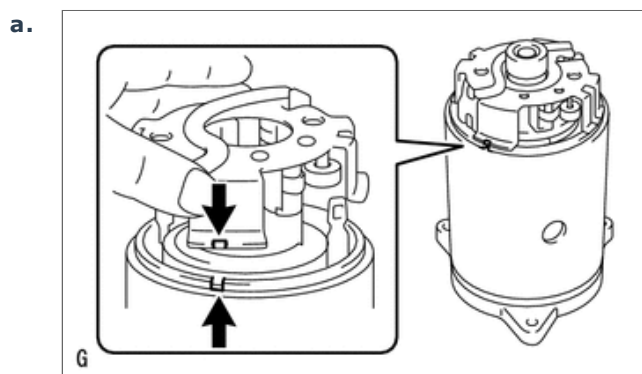
- b. Install the armature to the end frame.

5.INSTALL WINCH MOTOR YOKE SUB-ASSEMBLY



Align the alignment marks and install the yoke to the end frame.

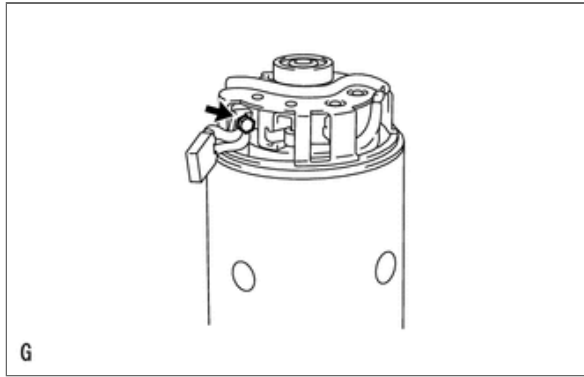
6.INSTALL WINCH MOTOR BRUSH HOLDER ASSEMBLY



Align the alignment marks and install the brush holder to the yoke.

7.INSTALL WINCH MOTOR BRUSH

a.



Install the brush with the bolt.

Torque:

3.4 N*m (35 kgf*cm, 30 in.*lbf)

- b. Using a screwdriver, pry the brush spring forward and insert the brush into the holder as shown in the illustration, then remove the screwdriver from the spring.

HINT:

Use the same procedures to install the 3 remaining brushes.

8.INSTALL WINCH MOTOR O-RING

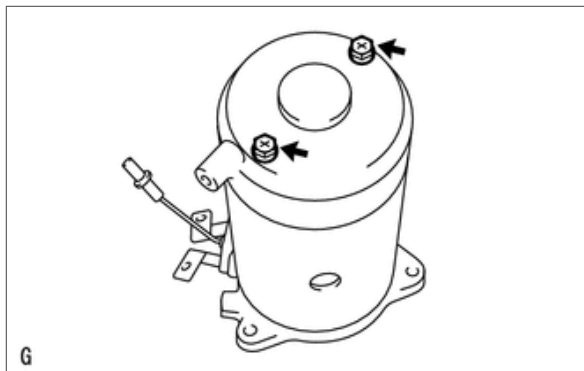
38614A

- a. Install a new O-ring to the yoke.

9.INSTALL WINCH MOTOR COMMUTATOR END FRAME

38618

a.



Install the end frame with the 2 bolts.

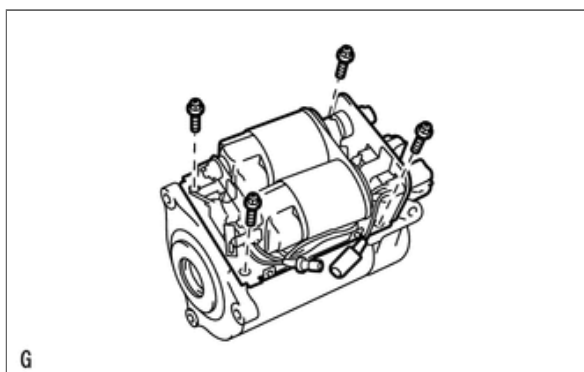
Torque:

7.6 N*m (77 kgf*cm, 67 in.*lbf)

10.INSTALL WINCH MOTOR MAGNET SWITCH ASSEMBLY

38600A

a.



Install the switch to the motor with the 4 bolts.

Torque:

4.9 N*m (50 kgf*cm, 43 in.*lbf)

- b. Install the wire harness with the 2 washers, 2 spring washers and 2 nuts.

Torque:

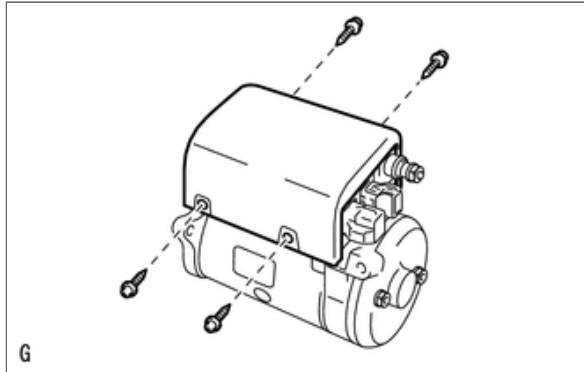
9.3 N*m (95 kgf*cm, 82 in.*lbf)

- c. Connect the connector.

11.INSTALL MAGNET SWITCH WINCH COVER

38621B

a.



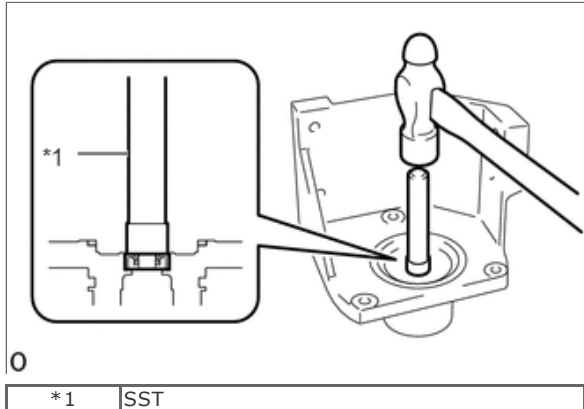
Install the cover with the 4 screws.

Torque:

1.5 N*m (15 kgf*cm, 13 in.*lbf)

12.INSTALL OIL SEAL

a.



Using SST, install a new oil seal.

SST

09950-60010 09950-70010 (09951-00320, 09951-07150)

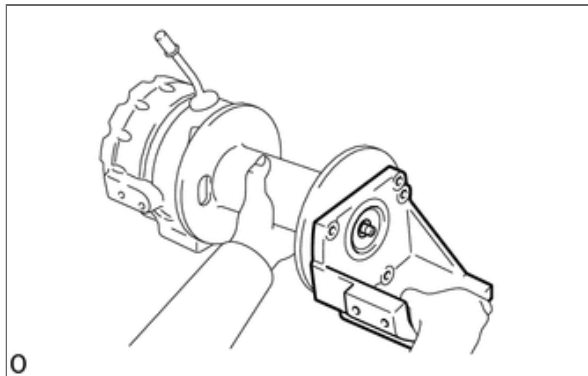
- b. Apply MP grease to the new oil seal.

13.INSTALL WINCH BRAKE CASE SUB-ASSEMBLY

- a. Apply MP grease to the new x-ring.

- b. Install a new x-ring to the winch brake case sub-assembly.

c.



Install the winch brake case sub-assembly.

d. Install the winch wire guide with the bolt.

Torque:

10 N*m (102 kgf*cm, 7 ft.*lbf)



14.INSTALL WINCH MOTOR ASSEMBLY

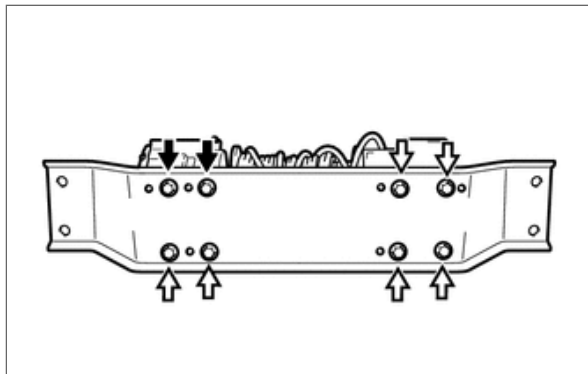
38600A

a. Install the winch motor assembly with the 3 bolts.

Torque:

16 N*m (163 kgf*cm, 12 ft.*lbf)

b.



	Bolt A
	Bolt B

Install the winch base with the 8 bolts.

Torque:

for bolt A : 32 N*m (326 kgf*cm, 24 ft.*lbf)

for bolt B : 59 N*m (602 kgf*cm, 44 ft.*lbf)

c. Install the member with the 4 bolts.

Torque:

22 N*m (224 kgf*cm, 16 ft.*lbf)