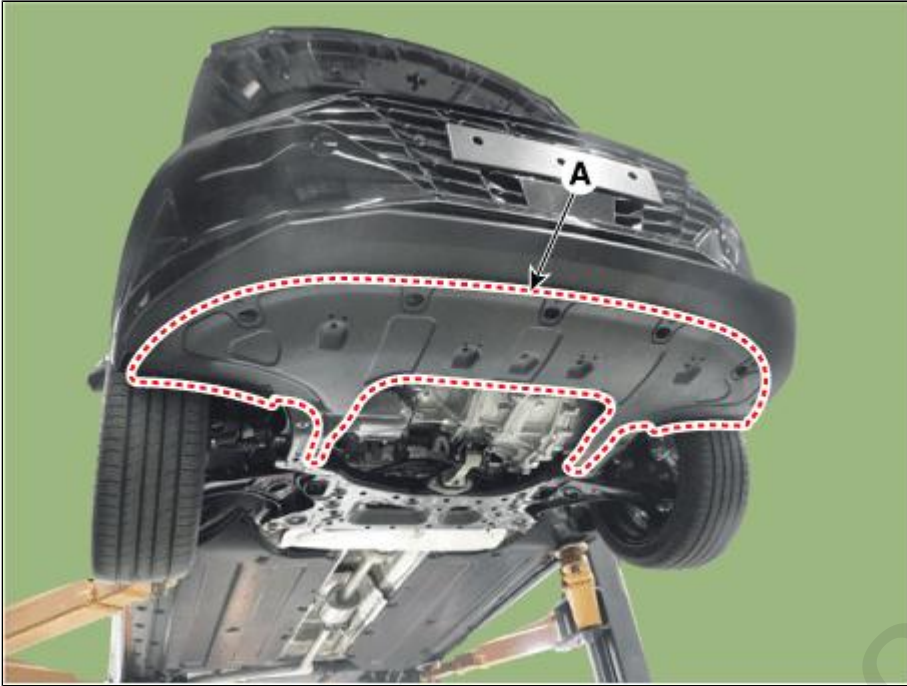


Removal

Clutch Actuator Assembly

1. Turn ignition switch OFF and disconnect the battery (+) terminal.
2. Remove the engine room under cover (A).



3. Disconnect the clutch actuator connector (A).



4. Loosen the bolt and then separate the wiring bracket (A).

Tightening torque:

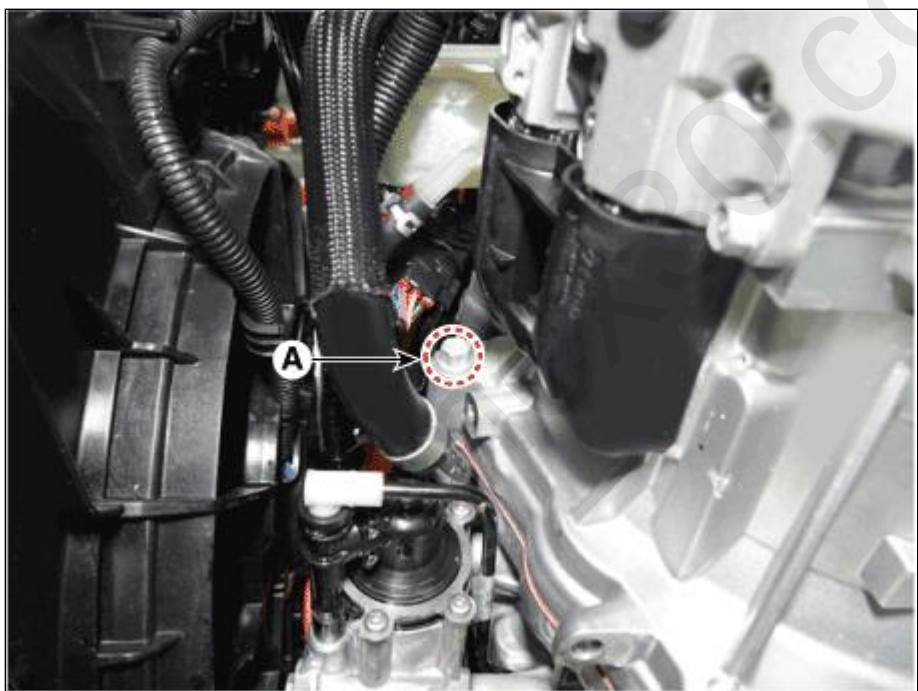
9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)



5. Loosen the hybrid motor mounting bolts (A).

Tightening torque:

42.2 - 53.9 N.m (4.3 - 5.5 kgf.m, 31.1 - 39.8 lb-ft)

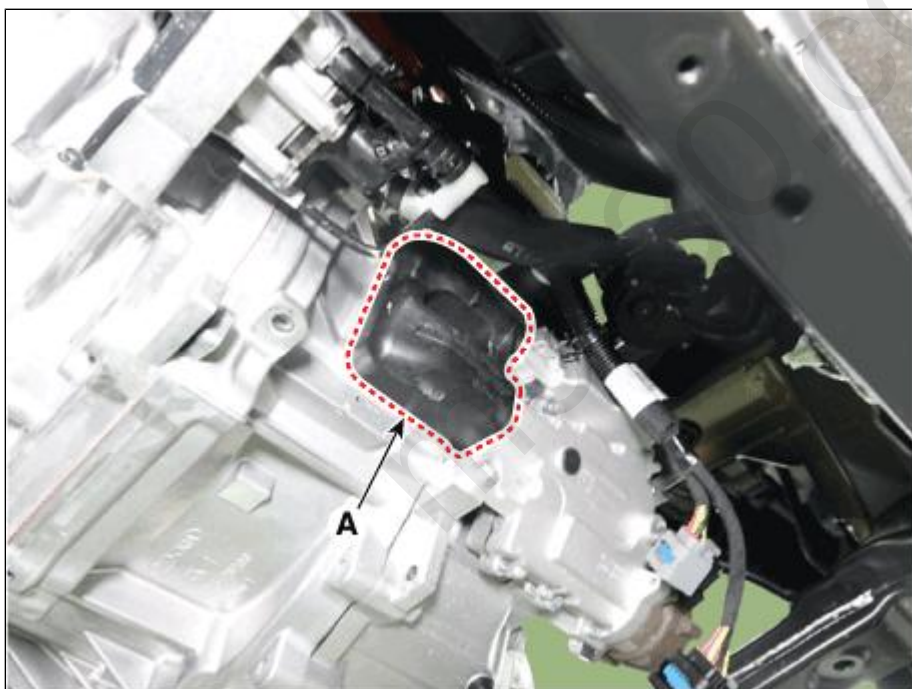




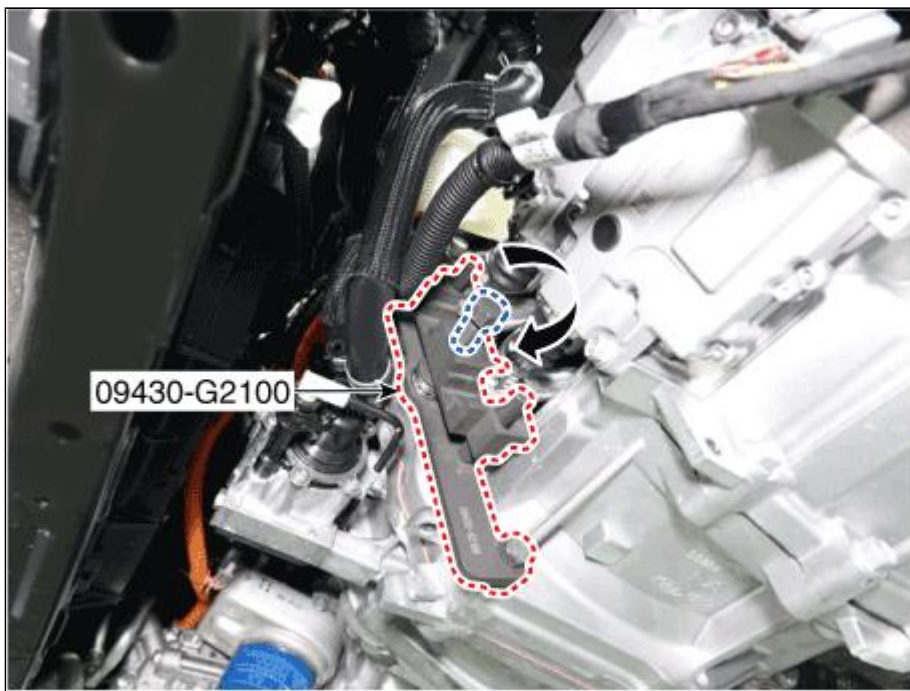
6. Loosen the bolts and then removing the fork cover (A).

Tightening torque:

3.9 - 5.9 N.m (0.4 - 0.6 kgf.m, 2.9 - 4.3 lb-ft)



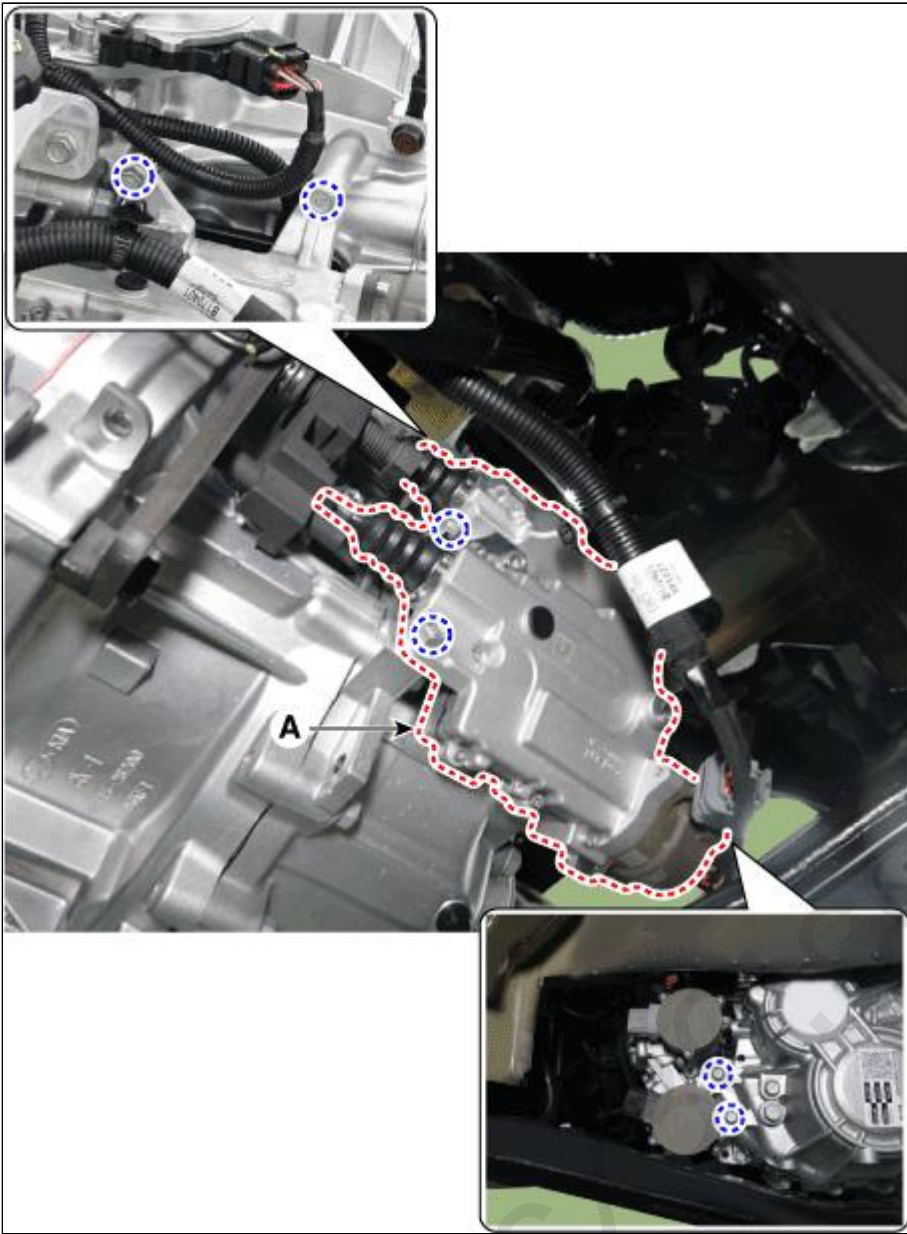
7. Install the special tool (09430-G2100) from the clutch engagement fork part.



8. Loosen the mounting bolts and then removing the clutch actuator assembly (A).

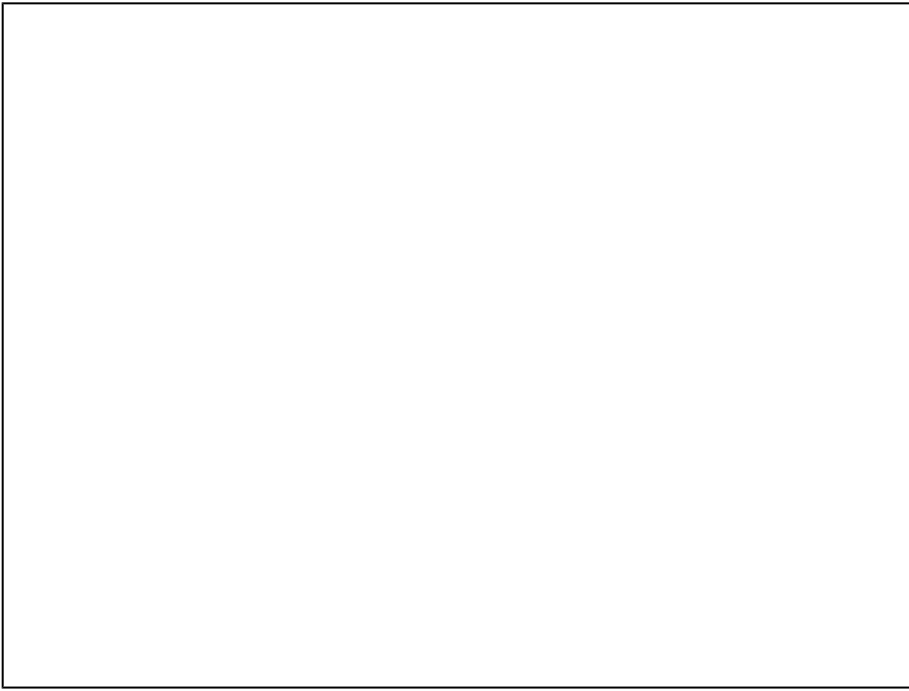
Tightening torque :

19.6 - 26.5 N.m (2.0 - 2.7kgf.m, 14.5 - 19.5 lb-ft)

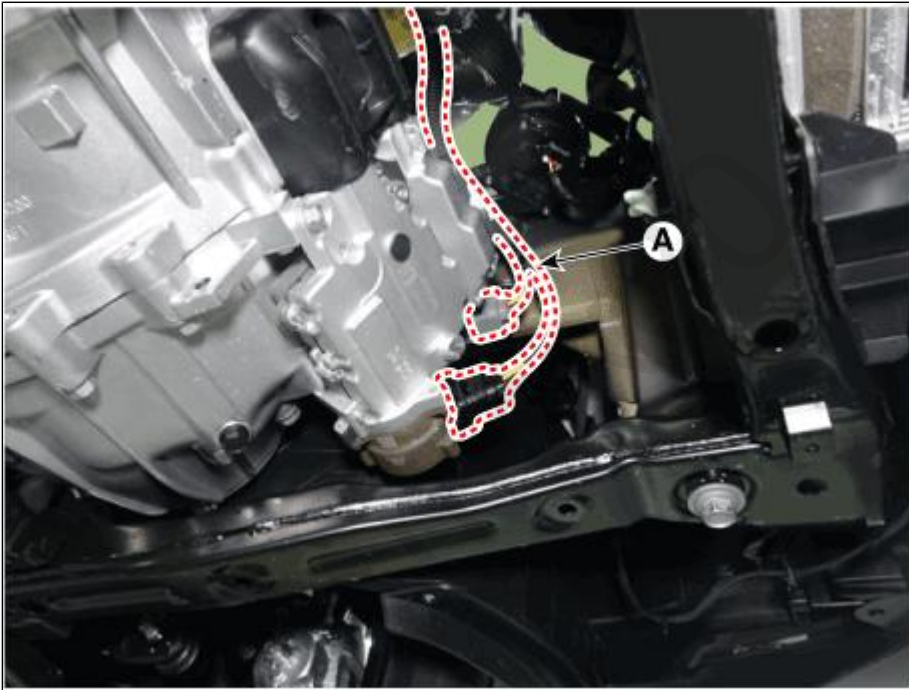


Clutch Actuator Motor

1. Turn ignition switch OFF and disconnect the battery (+) terminal.
2. Remove the engine room under cover (A).



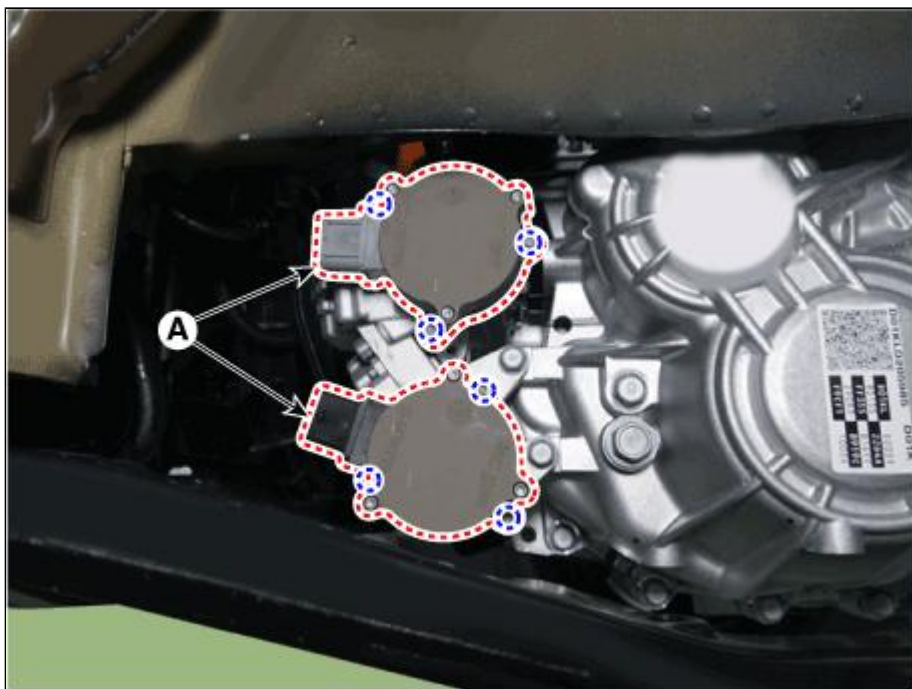
3. Remove the front wheel guard [LH].
(Refer to Body (Interior and Exterior) - "Front Wheel Guard")
4. Disconnect the clutch actuator motor connector (A).



5. Loosen the bolts and then removing the clutch actuator motor (A).

Tightening torque :

3.9 - 5.9 N·m (0.4 - 0.6 kgf·m, 2.9 - 4.3 lb·ft)



Installation

Clutch Actuator Assembly

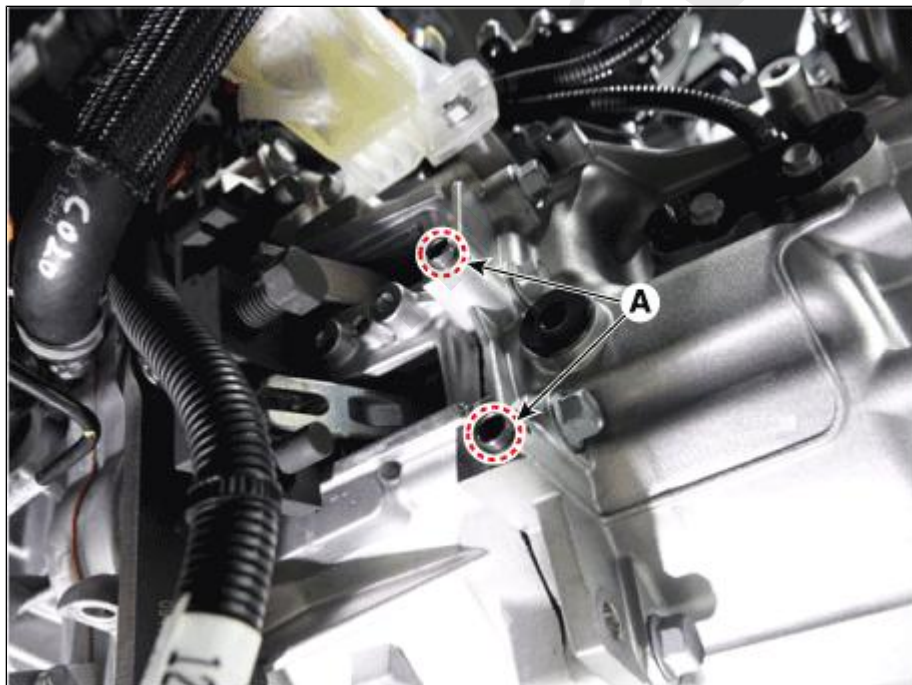
1. To install, reverse the removal procedure.

i Information

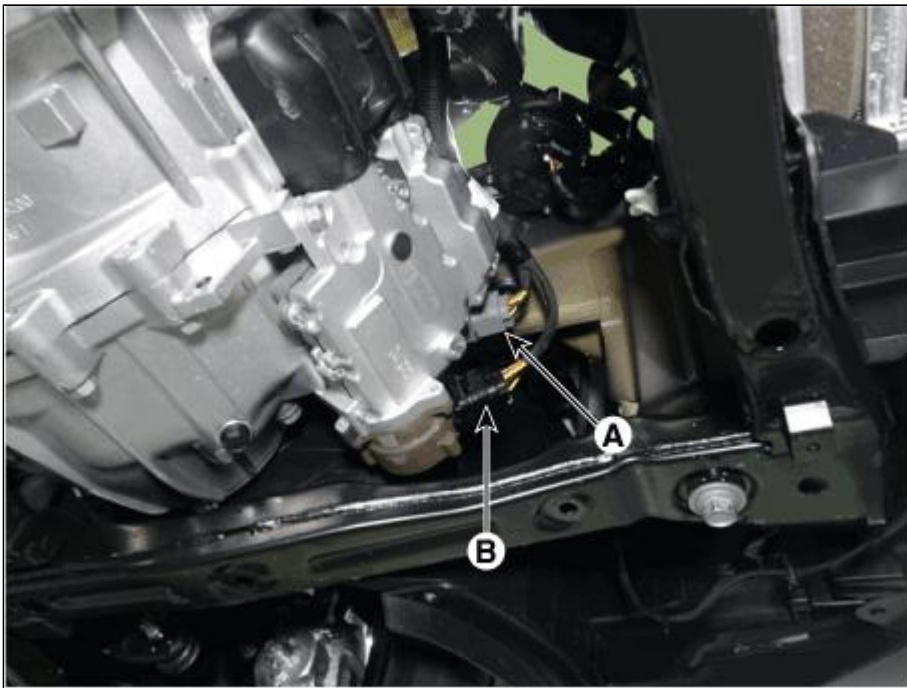
Perform the work procedures for abrasion compensation reset before installing the new clutch actuator assembly.

(Refer to Clutch actuator assembly - "Adjustment")

Check the assembled state of the dowel pins (A) before installing the clutch actuator assembly.



When installing, check the color of the motor connectors (A, B). (A: gray, B: black)



Perform the clutch touch point learning procedure using the diagnostic tool after replacing the clutch actuator assembly.



NOTICE

Even if you removed and reinstalled the clutch actuator, be sure to perform the touch point learning. If you have replaced the dual clutch assembly or clutch actuator, be sure to perform the touch point learning.

Clutch Actuator Motor

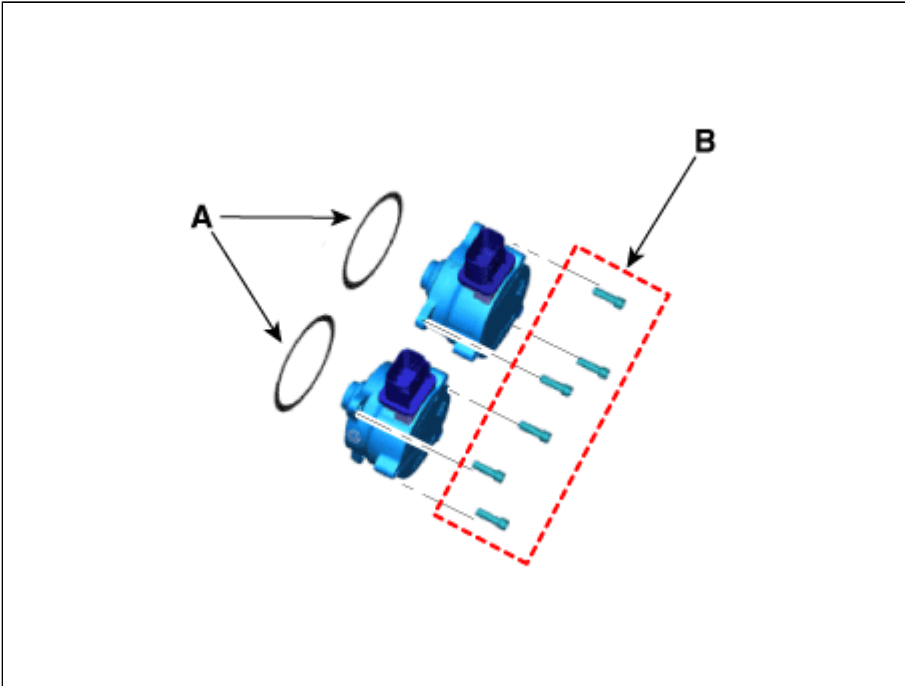
1. To install, reverse the removal procedures.

Information

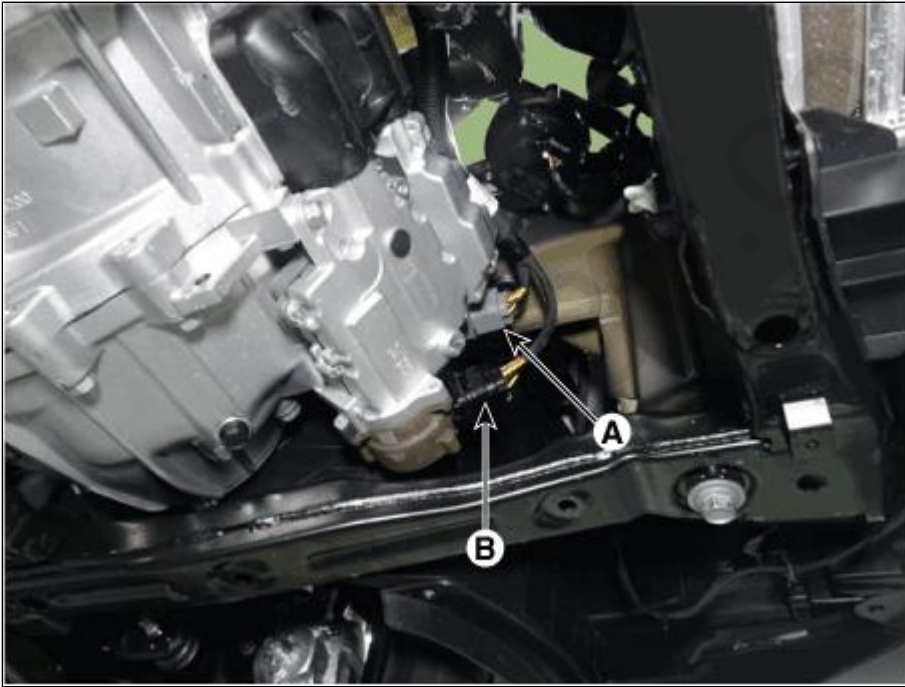
The existing O-rings (C) and seal bolts (D) must be replaced with a new one while installing the clutch actuator motor. (Do not reuse it)

A : Motor 1 (Odd)

B : Motor 2 (Even)



When installing, check the color of the motor connectors (A, B). (A: gray, B: black)



2. Perform the clutch touch point learning procedure using the diagnostic tool after replacing the clutch actuator assembly.



NOTICE

Even if you removed and reinstalled the clutch actuator, be sure to perform the touch point learning. If you have replaced the dual clutch assembly or clutch actuator, be sure to perform the touch point learning.

Adjustment

NOTICE

If you replaced the dual clutch assembly or clutch actuator, be sure to perform wear compensation by referring to the following table.

Case	Replaced Part	Wear Compensation (Clutch Actuator)

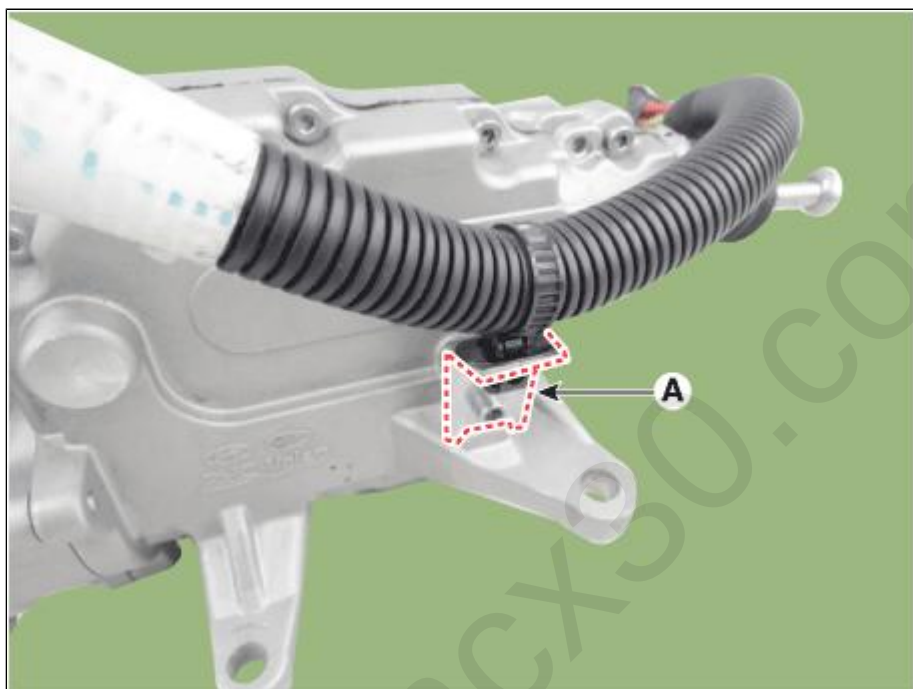
A	Clutch actuator only	Rewind the rod to adjust rod length
B	Dual clutch assembly only	Initialize the rod length.
C	Both dual clutch assembly and clutch actuator	No need to adjust

A. Rewinding the rod to adjust rod length (when only the clutch actuator is replaced)

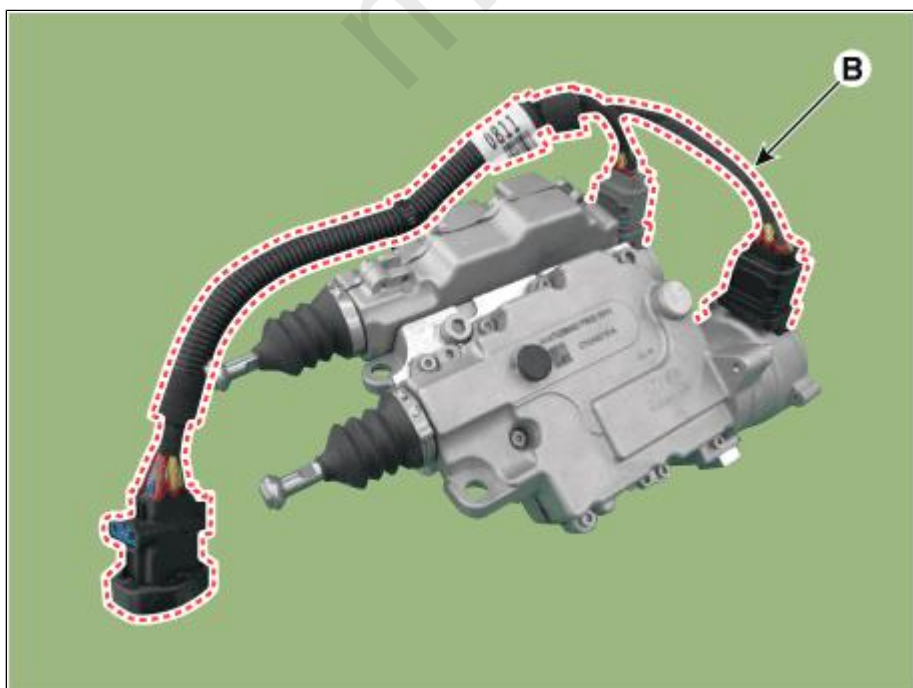
NOTICE

Be sure to perform it when you have replaced the clutch actuator but reuse the dual clutch assembly. It is performed to adjust the rod length of a new clutch actuator to that of an old clutch actuator.

1. Remove the clutch actuator assembly.
(Refer to Clutch Actuator Assembly - "Removal")
2. Disconnect the clutch actuator motor connector.
 - 1) Remove the clutch actuator motor connector wiring bracket (A).



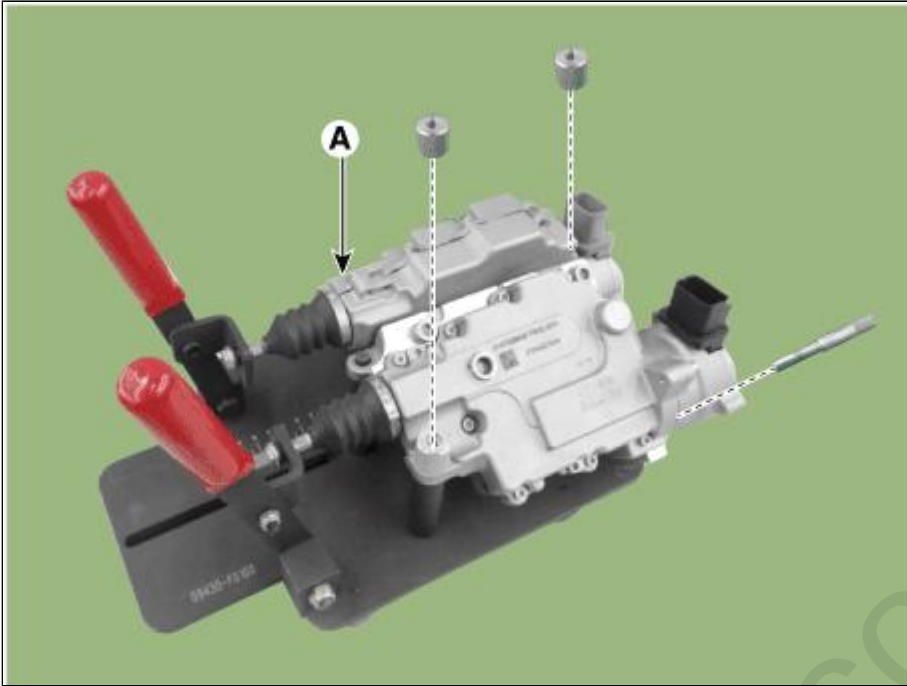
- 2) Disconnect the clutch actuator motor connector (B).



i Information

To measure the rod length of an old clutch actuator, perform the steps No. 3 - 4 of the following procedure.

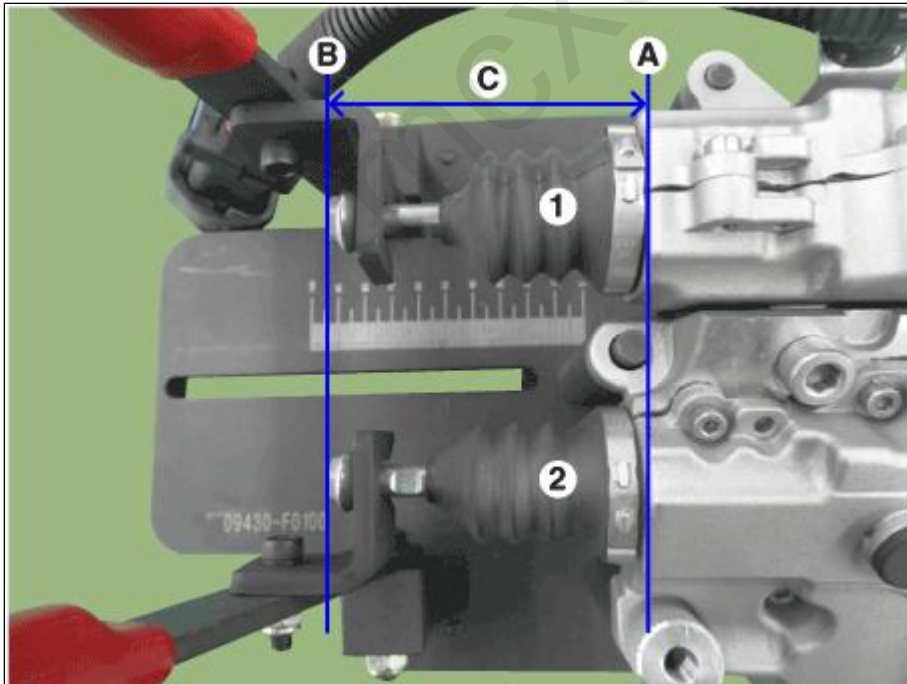
3. Install the faulty clutch actuator (A) on special service tool (09430-F0100) and fix the actuator using nuts and bolts.



4. Slightly pull the lever of the clutch actuator removed from the vehicle and measure the length of each old rod (C).

Length of the old rod (C) : Length from the reference plane (A) to the end of the rod (B).

- 1) Clutch actuator 1
- 2) Clutch actuator 2



NOTICE

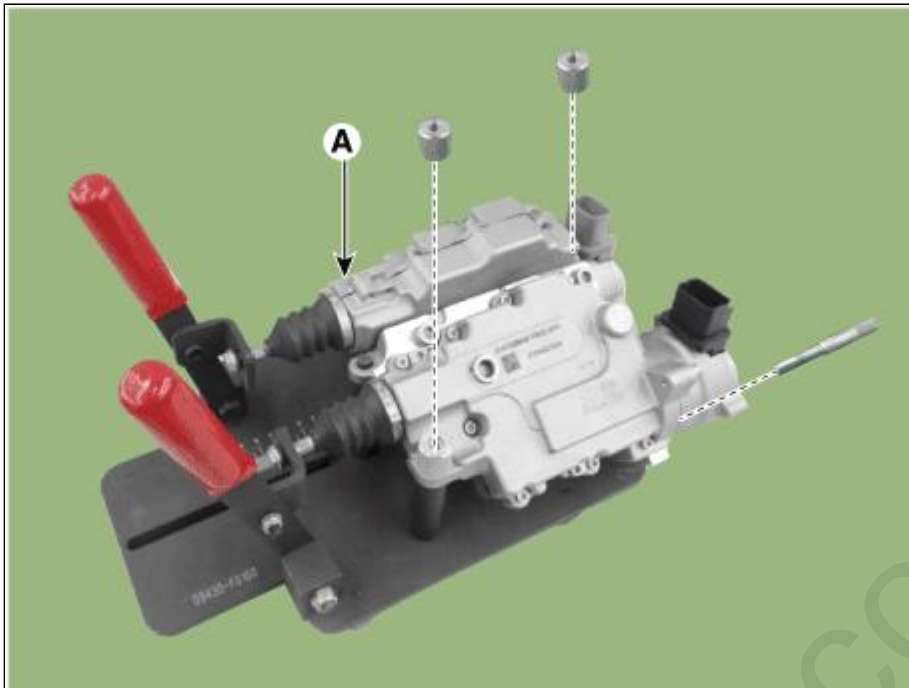
If the rod length is less than 46 mm (1.8110 in.) replace all of the dual clutch assembly, clutch actuator, and engagement bearing.

5. Remove the clutch actuator from the special service tool (09430-F0100).

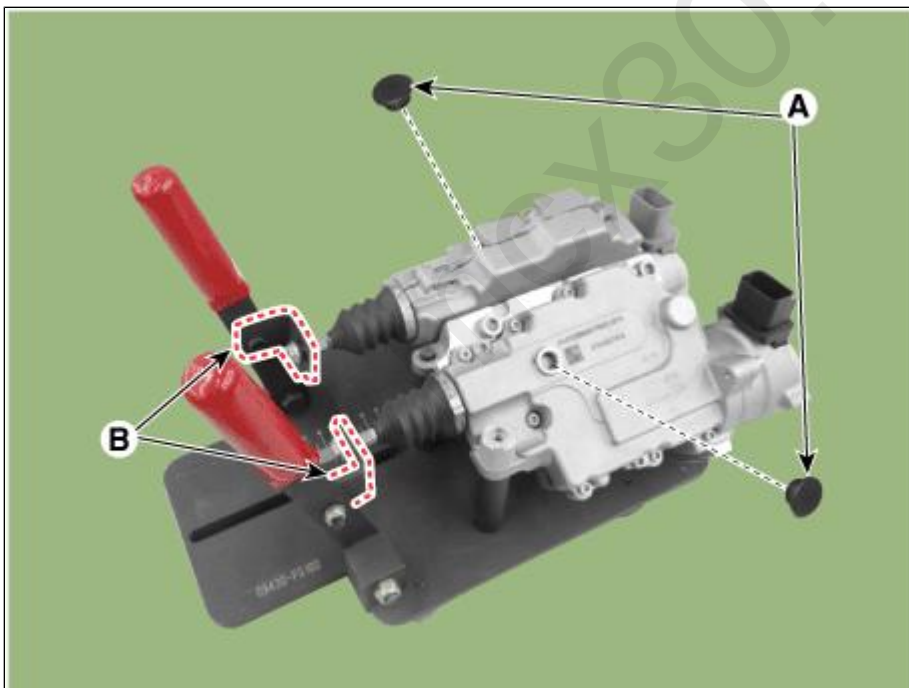
i Information

To match the rod length of a new clutch actuator with that of the clutch actuator removed from the vehicle, perform the steps No. 6 - 15 of the following procedure.

6. Install the faulty clutch actuator (A) on special service tool (09430-F0100) and fix the actuator using nuts and bolts.



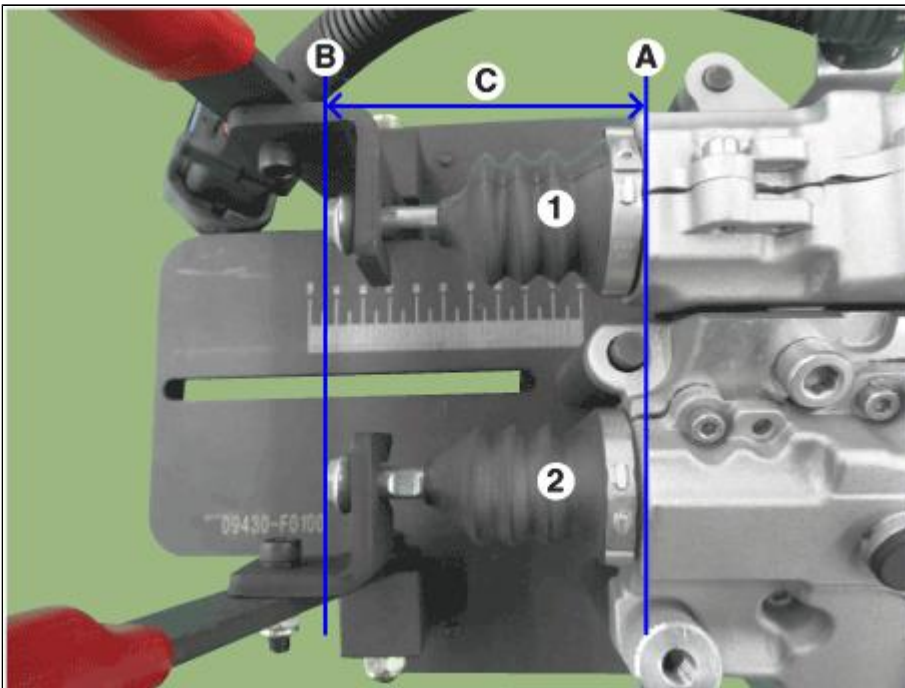
7. Fix the pull rod to hook (B) and then remove sealing rubber (A).



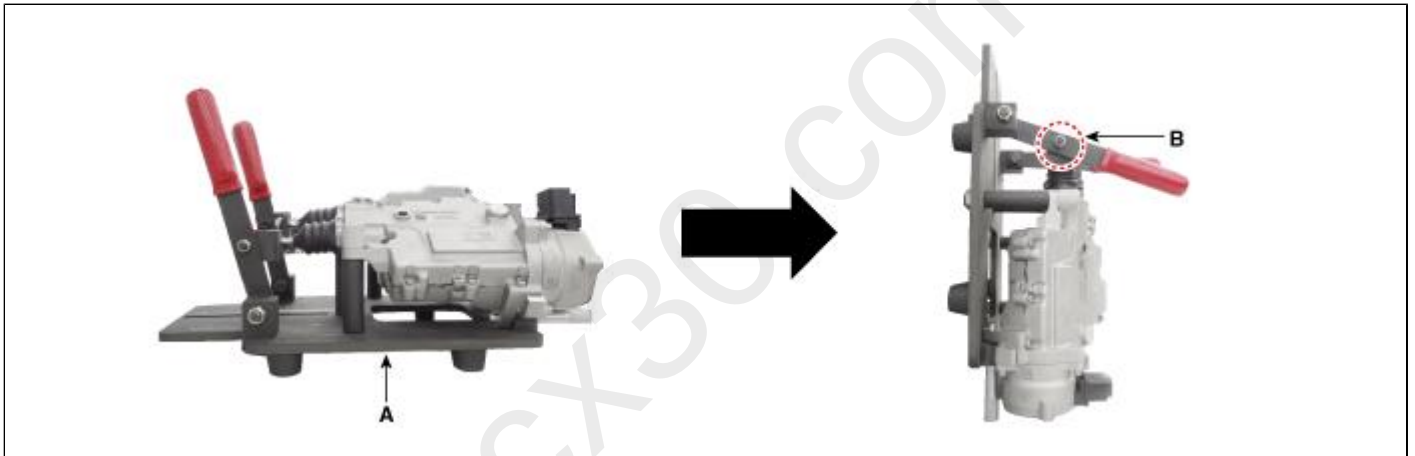
8. Slightly pull the lever of the new clutch actuator and measure the length of each new rod (C).

Length of the new rod (C) : Length from the reference plane (A) to the end of the rod (B).

- 1) Clutch actuator 1
- 2) Clutch actuator 2



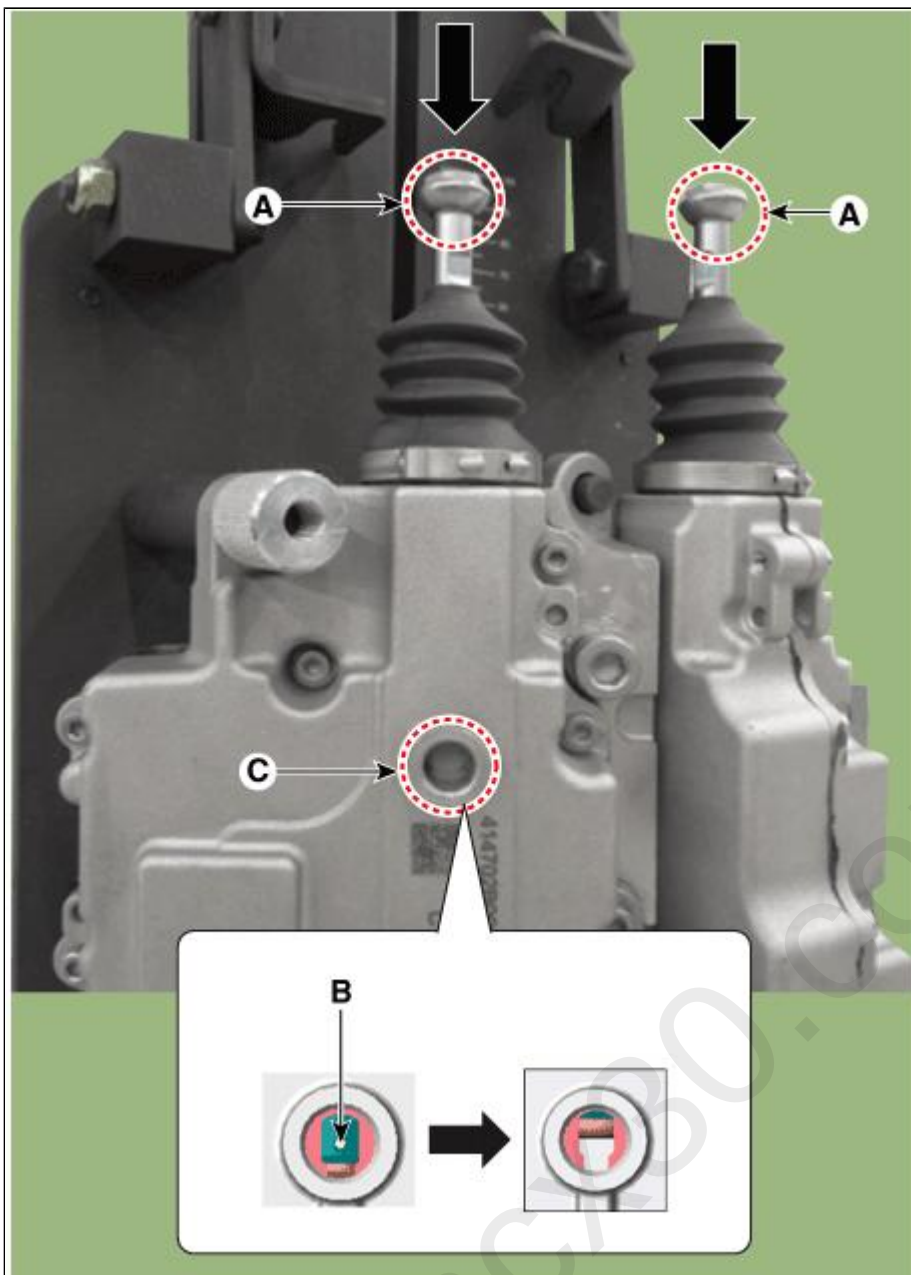
9. With the clutch actuator fixing jig (09430-F0100) (A) installed, stand the clutch actuator vertically.
10. After standing it vertically, remove the hook (B) from the rod.



11. Press the end part of rod (A) and release the pressing force when you see the nut bump (B).

i Information

Light inside of the hole (C) and check the nut bump (B) inside of it.
 Repeat the operation if the nut bump (B) does not come down to the assembly hole position.
 The nut bump (B) can be moved up a little by sealing boot if the pressing force is released.



12. Insert a special tool (09430-C1300) (A) to a sealing rubber hole.

Information

Perform the same procedure for the opposite side rod.

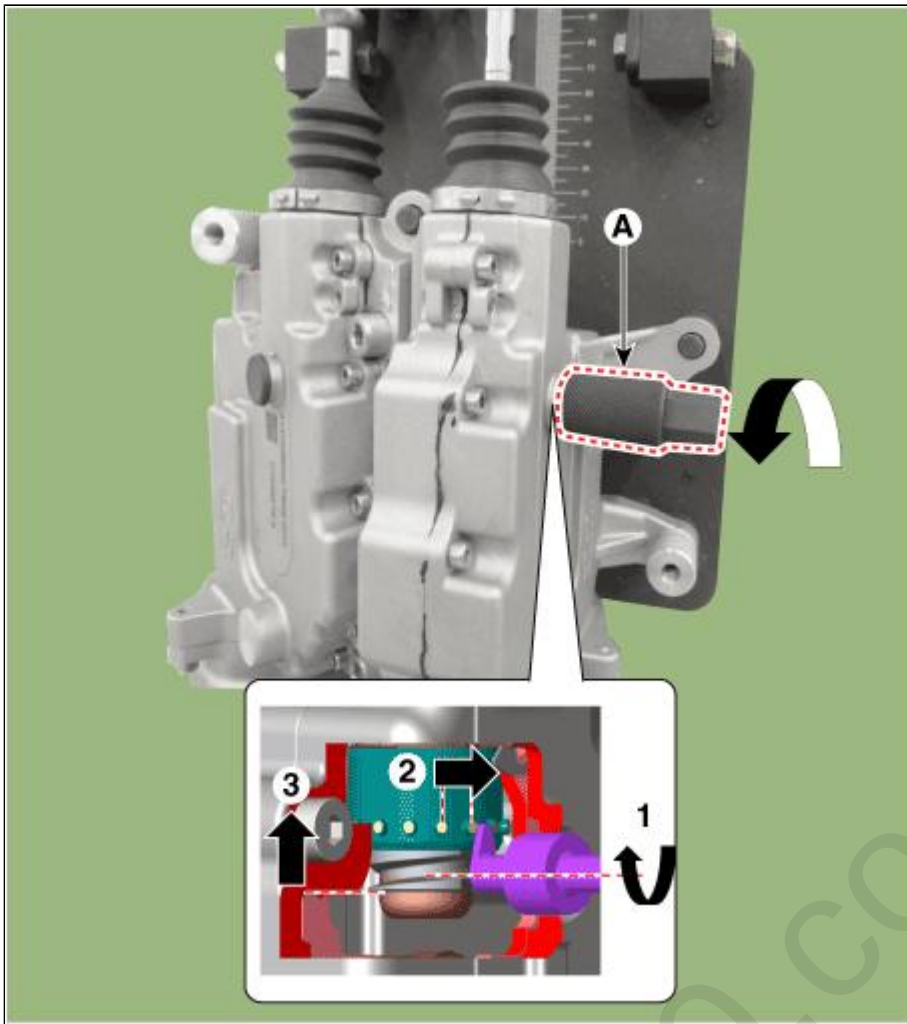
NOTICE

Be aware not to break the clutch actuator caused by break away inner parts when the SST over rotates clockwise.

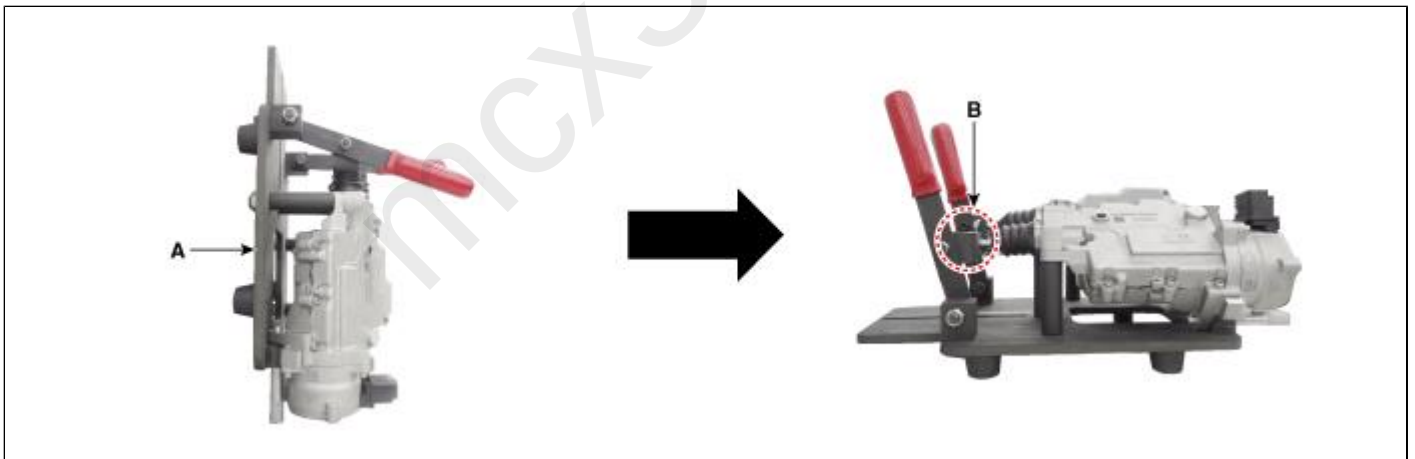
If the "length of the clutch actuator's new rod" is not adjusted to the "length of the old rod" measured at step No. 4, the DCT shift shock may occur or driving may be impossible.

Increasing (+) rod length : Rotate counter-clockwise / once +0.25mm (+0.0009 in.)

Shortening (-) rod length : Rotate clockwise / once -0.25mm (-0.0009 in.)



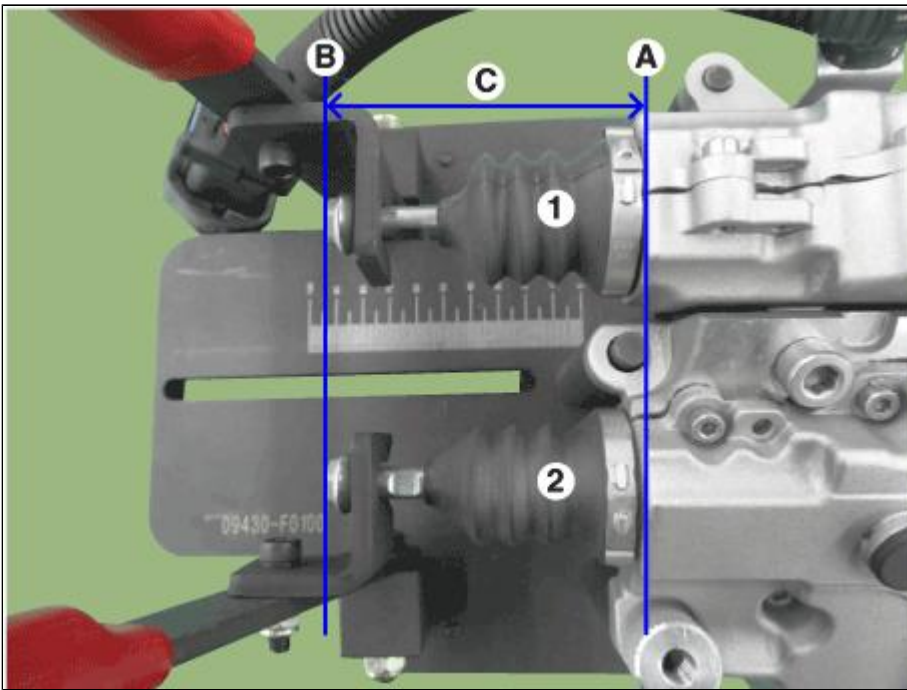
13. With the clutch actuator fixing jig (09430-F0100) (A) mounted, maintain the level of the clutch actuator.
14. With the fixing jig (094320-F0100) levelled, install the hook (B) on the clutch actuator.



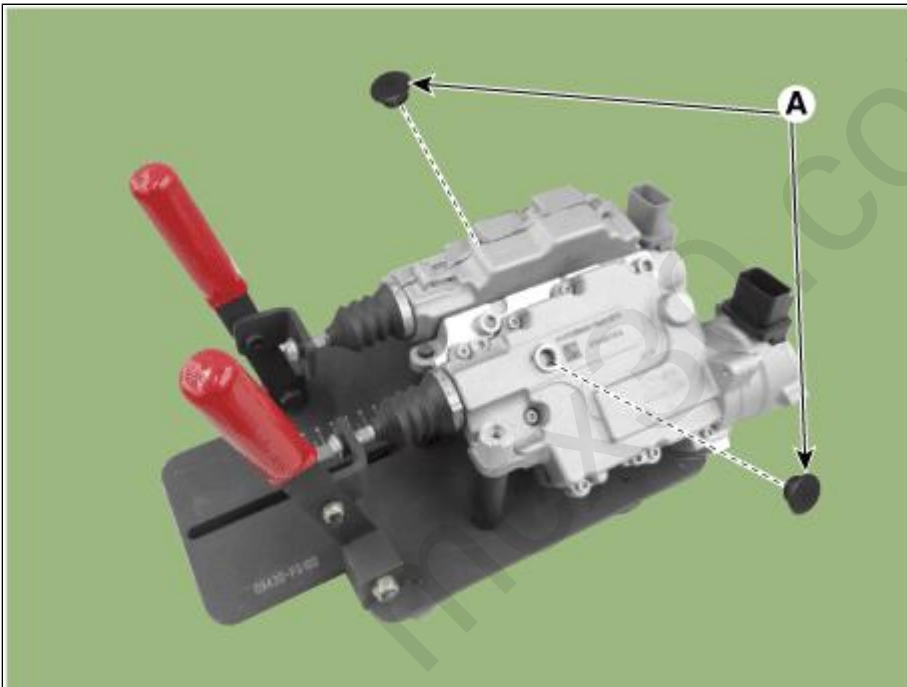
15. Slightly pull the lever of the clutch actuator and check whether the "length of the rod which the final adjustment is finished" is same with the "length of the old rod" measured at step No. 4.

Rod length (C) : Length from the reference plane (A) to the end of the rod (B).

- 1) Clutch actuator 1
- 2) Clutch actuator 2



16. Install the sealing rubber (A).



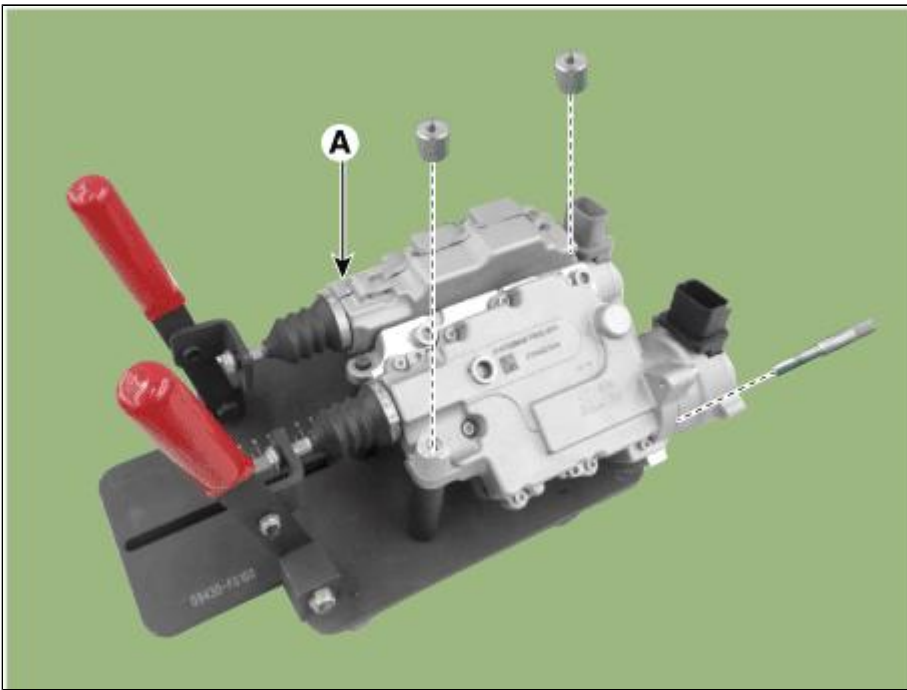
17. Remove the clutch actuator assembly from the special tool (09430-F0100).

B. Initializing the rod length (When only the dual clutch assembly is replaced)

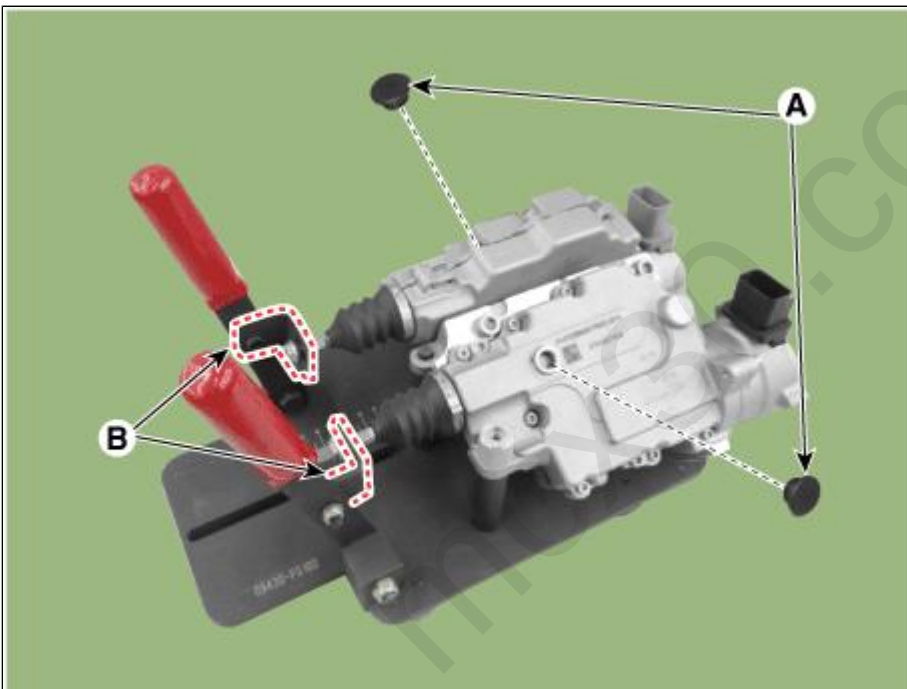
NOTICE

Be sure to perform it when you have replaced the dual clutch assembly but reuse the clutch actuator.
Perform the procedure when both the dual clutch assembly and clutch actuator are replaced.
It is performed to adjust the rod length of an old clutch actuator to that of a new clutch actuator.

1. Remove the clutch actuator assembly.
(Refer to Clutch Actuator Assembly - "Removal")
2. Install the faulty clutch actuator (A) on special service tool (09430-F0100) and fix the actuator using nuts and bolts.



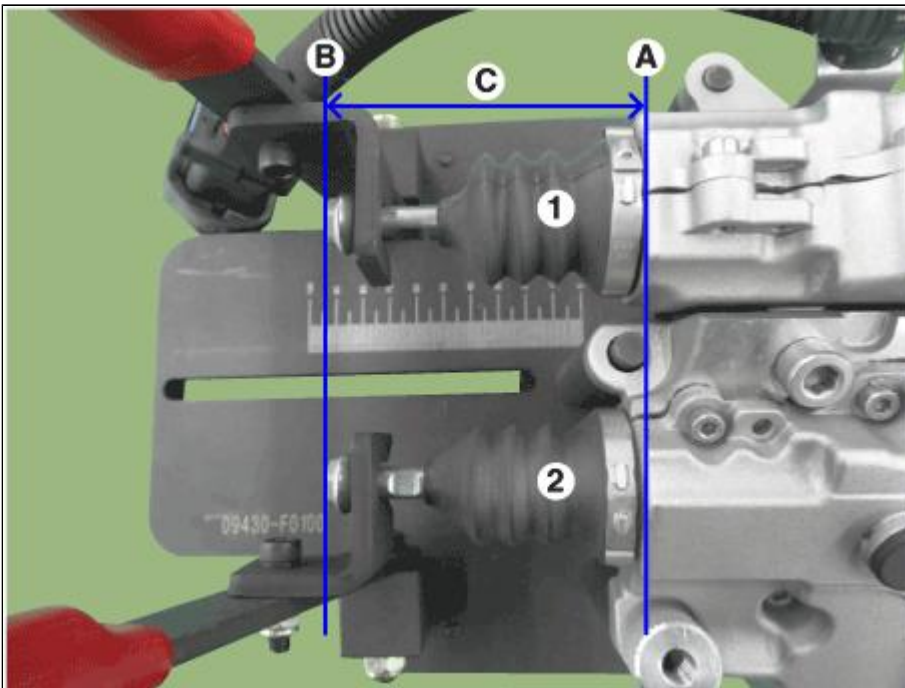
3. Fix the pull rod to hook (B) and then remove sealing rubber (A).



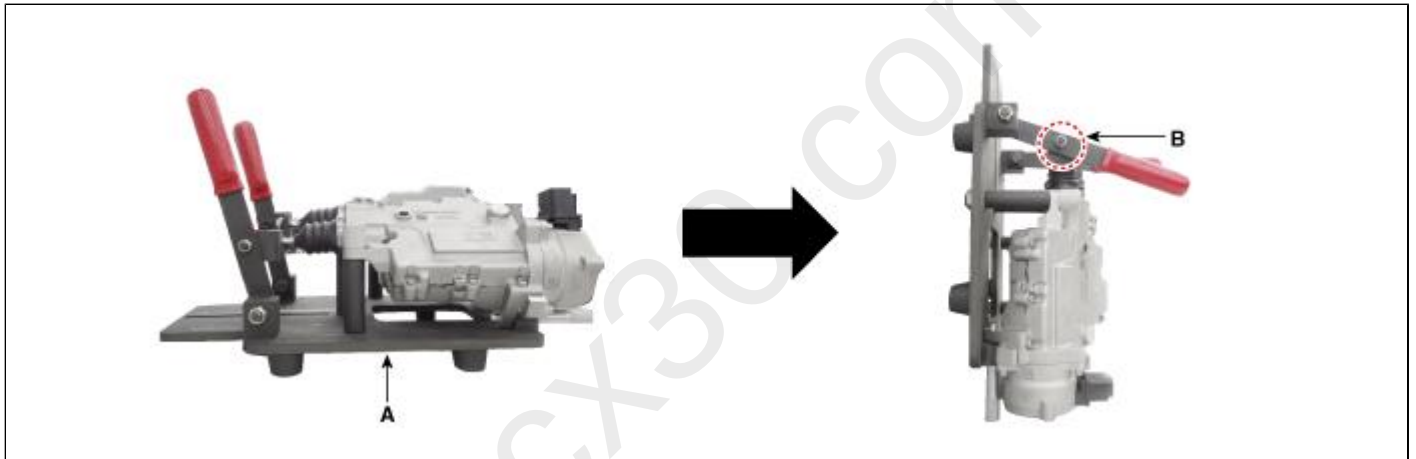
4. Slightly pull the lever of the clutch actuator removed from the vehicle and measure length of each rod (C). If the length is shorter than the initialization length, you need to perform initialization.

Rod length (C) : Length from the reference plane (A) to the end of the rod (B).
(Initializ rod length : 82.0 - 83.0 mm (3.2283 - 32677 in.)

- 1) Clutch actuator 1
- 2) Clutch actuator 2



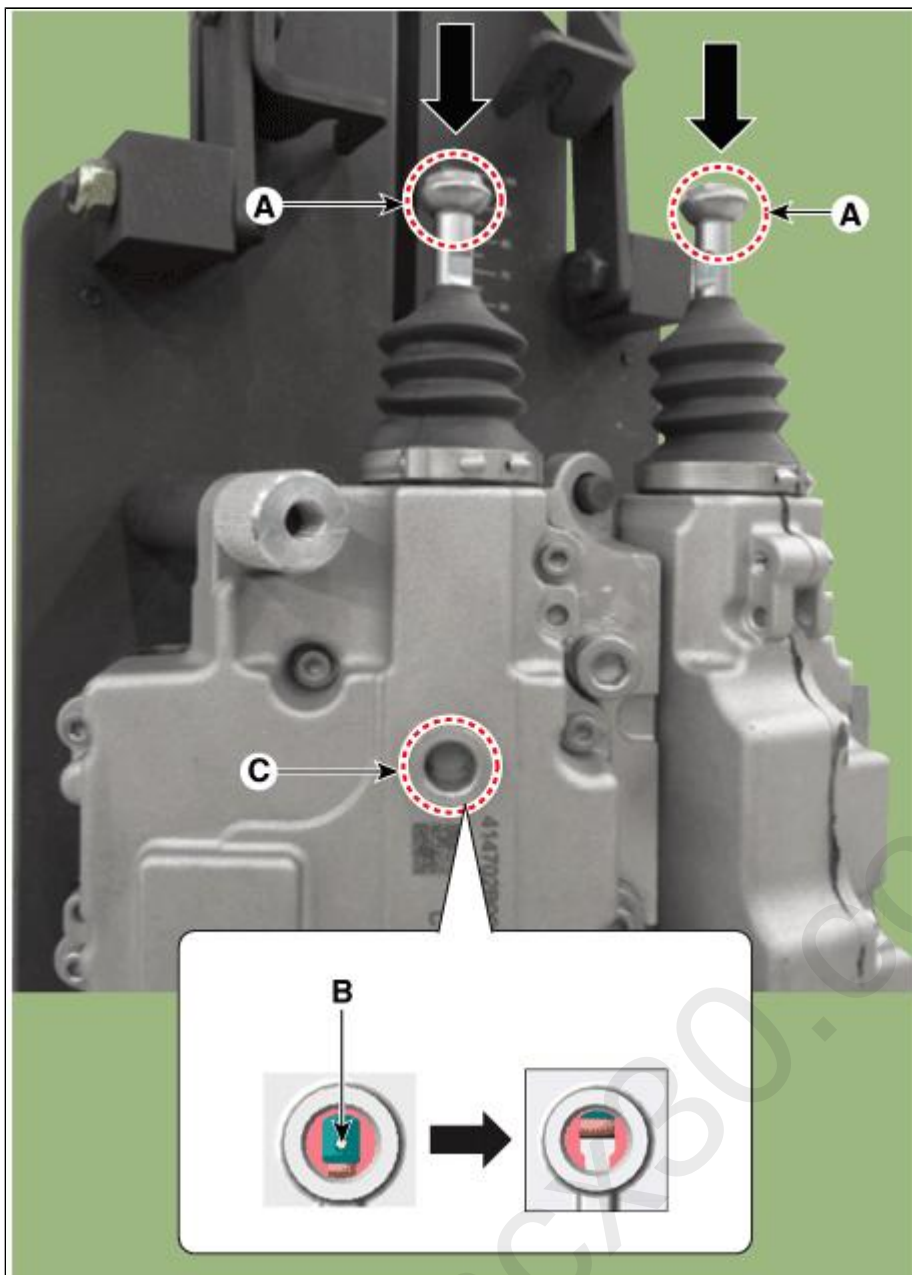
5. Stand the clutch actuator vertically with SST (09430-F0100) (A) installed.
6. After standing it vertically, remove the hook (B) from the rod.



7. Press the end part of rod (A) and release the pressing force when you see the nut bump (B).

i Information

Light inside of the hole (C) and check the nut bump (B) inside of it.
 Repeat the operation if the nut bump (B) does not come down to the assembly hole position.
 The nut bump (B) can be moved up a little by sealing boot if the pressing force is released.



8. Insert a special tool (09430-C1300) (A) to a sealing rubber hole.

Information

Perform the same procedure for the opposite side rod.

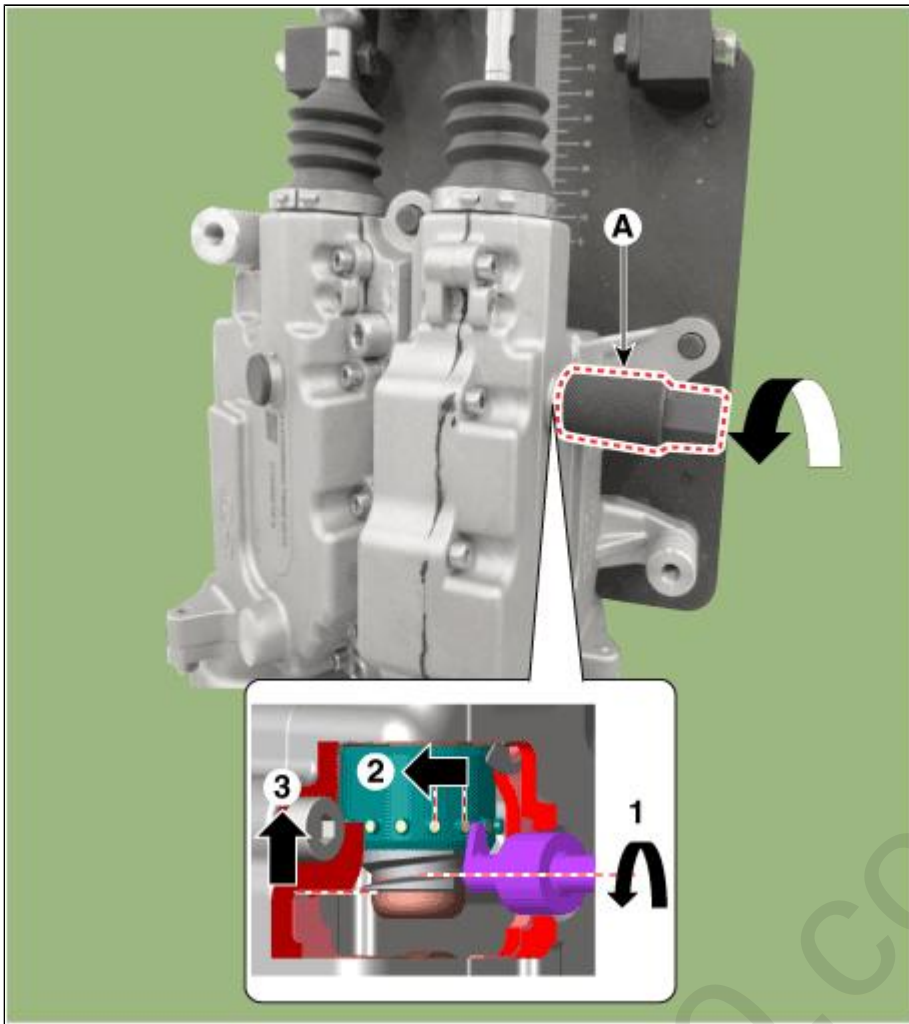
NOTICE

Be aware not to break the clutch actuator caused by break away inner parts when the SST over rotates clockwise.

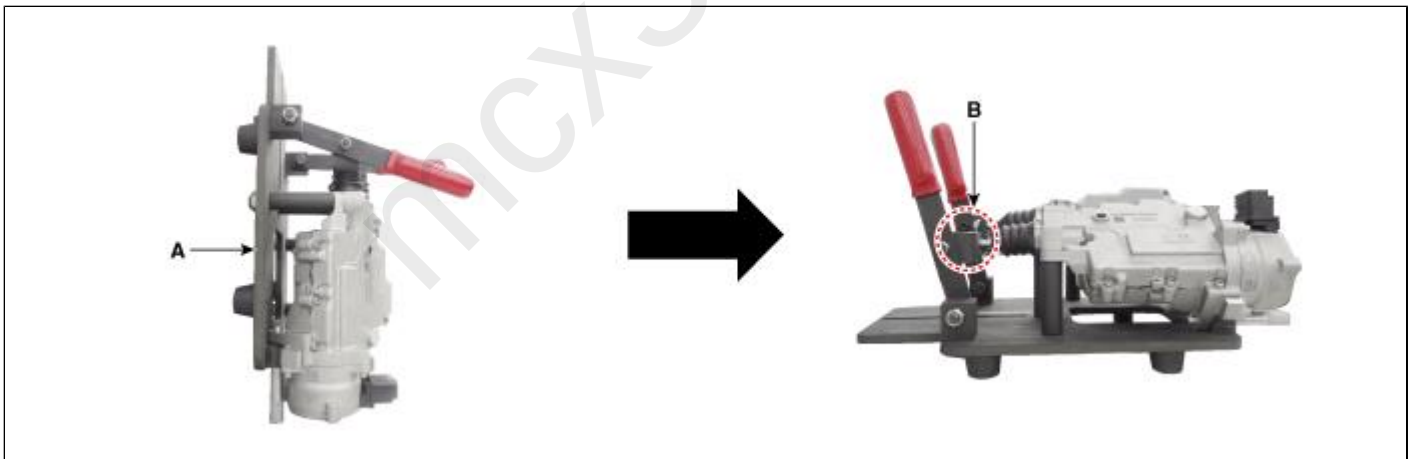
If the rod length is not initialized to 82.0 - 83.0 mm (3.2283 - 3.2677 in.) (during initialization of wear compensation, DCT shift shock may occur or driving may be impossible.

Increasing (+) rod length : Rotate counter-clockwise / once +0.25mm (+0.0098 in)

Shortening (-) rod length : Rotate clockwise / once -0.25mm (-0.0098 in)



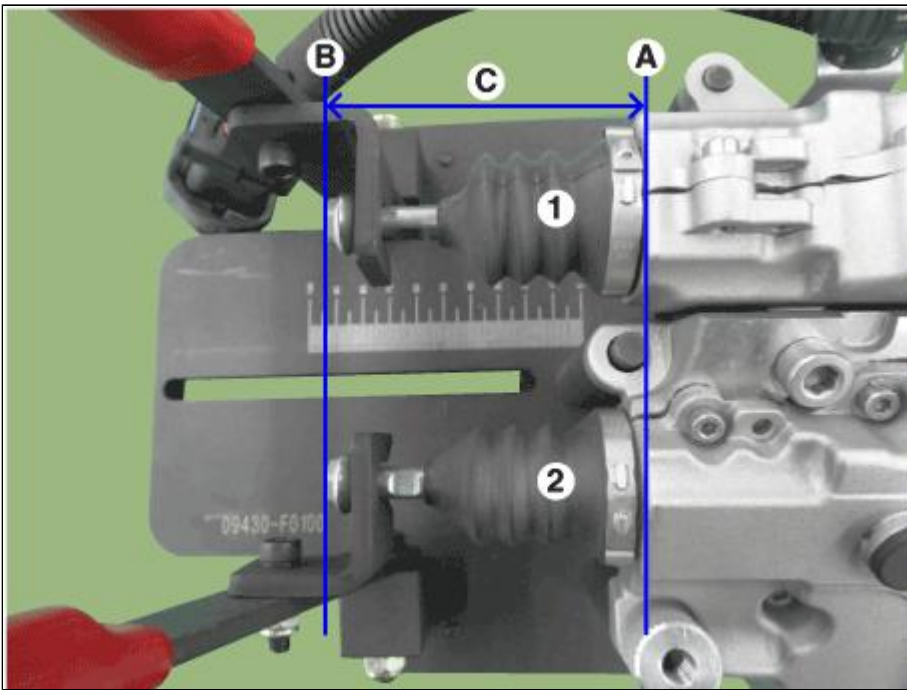
9. With the clutch actuator fixing jig (09430-F0100) (A) mounted, maintain the level of the clutch actuator.
10. With the fixing jig (094320-F0100) levelled, install the hook (B) on the clutch actuator.



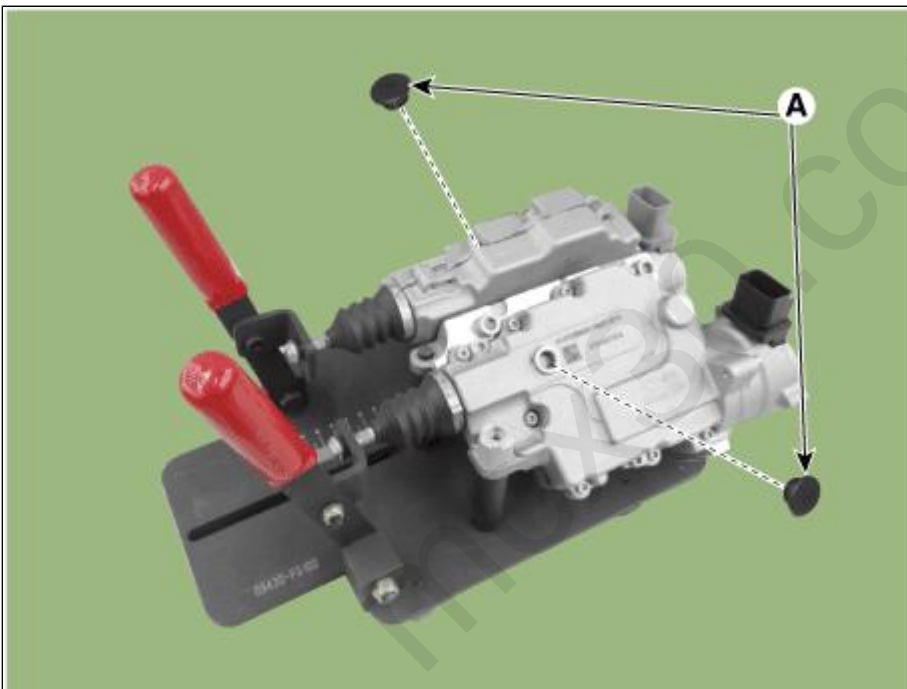
11. Slightly pull the lever of the clutch actuator and check whether the "length of the rod which the final adjustment is finished" is same with the "rod's initialized length".

Rod length (C) : Length from the reference plane (A) to the end of the rod (B).
(Initializ rod length : 82.0 - 83.0 mm (3.2283 - 32677 in.)

- 1) Clutch actuator 1
- 2) Clutch actuator 2



12. Install the sealing rubber (A).



13. Remove the clutch actuator assembly from the special tool (09430-F0100).

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