

Removal

1. Remove the dual clutch transmission from the vehicle.
(Refer to DCT (Dual Clutch Transmission) System - "DCT (Dual Clutch Transmission)")
2. Remove the clutch cover assembly and clutch disc after loosening the bolts.

NOTICE

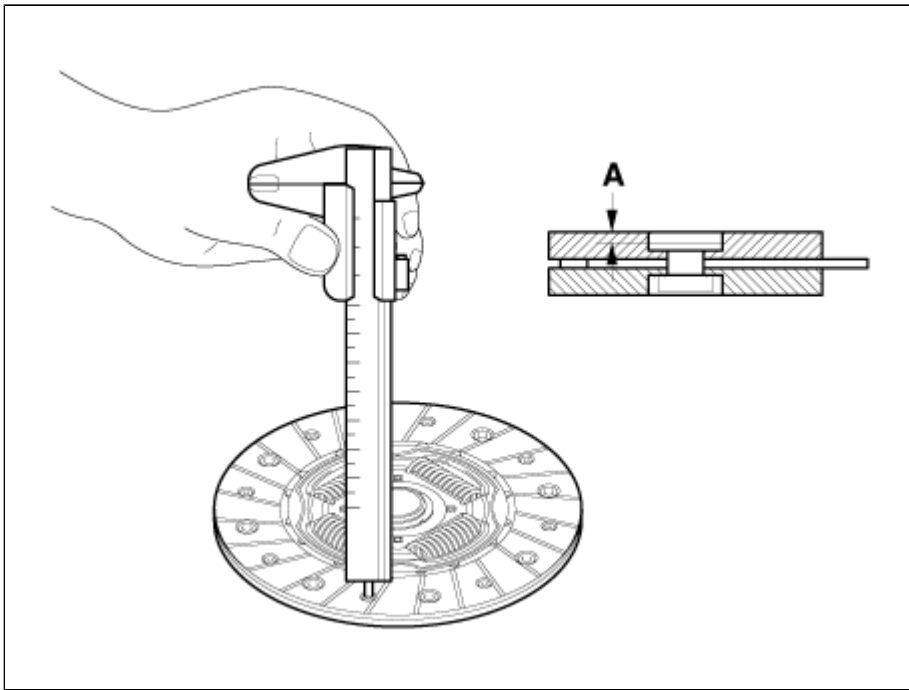
Be careful not to be bent or twist bolts. Loosen bolts in diagonal directions.



Inspection

1. Inspect diaphragm spring wear which is in contact with a concentric slave cylinder bearing.
2. Check the clutch cover and disc surface for wear or cracks.
3. Check the clutch disc lining for slipping or oil marks.
4. Measure the depth from a clutch lining surface to a rivet. If the measured value is less than the specification below, replace it.

Clutch disc rivet depth [Service standard](A): 0.3 mm (0.0118 in.)



Installation

NOTICE

If reinstalling used cover, the cover should be installed with its clutch disc as a set.

If you only replace a disc, the adjustment ring may malfunction, resulting in a slip due to the initial decrease of clamp load. (This is because the clutch cover is adjusted by as much as the amount of its wear.)

If you only replace a disc, the disc may exceed its acceptable thickness for assembly, making it difficult to block the driving force.

1. Apply grease on a disc spline part and hybrid motor input shaft spline part as required.

Specified grease: CASMOLY L9508

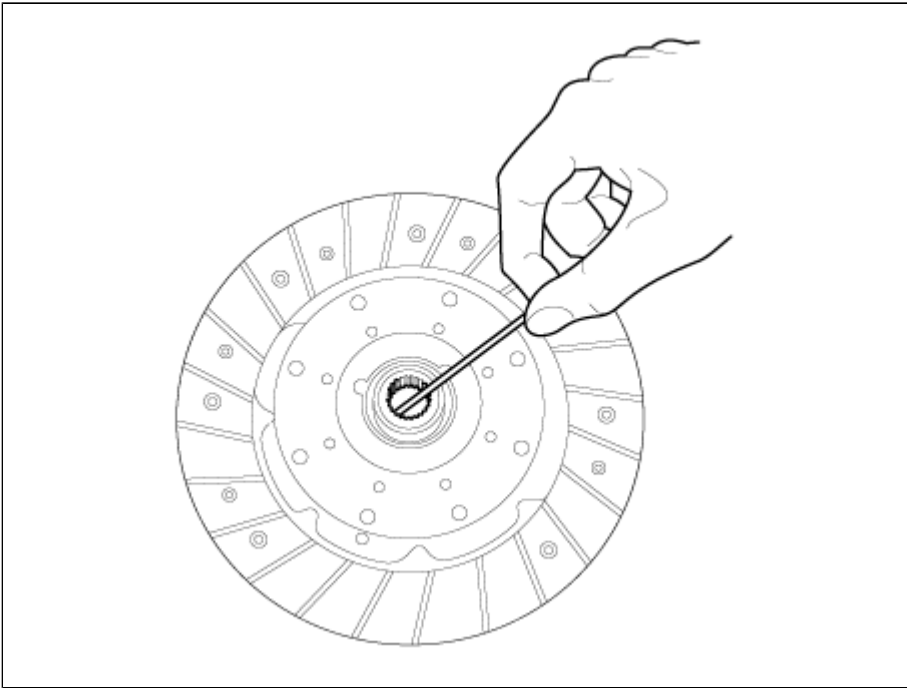
Amount: 0.2 g

NOTICE

Possible problems when not following

When not applying: Excessive wear of splines and bad clutch operation can occur.

When excessively applying: Grease can be scattered by centrifugal force which can contaminate the clutch disc. This can cause a loss of friction force causing a slip.



2. Install the clutch disc and the cover with SST (09411-1P000, 09411-G2100)



3. Install the clutch cover bolts.

Tightening torque :

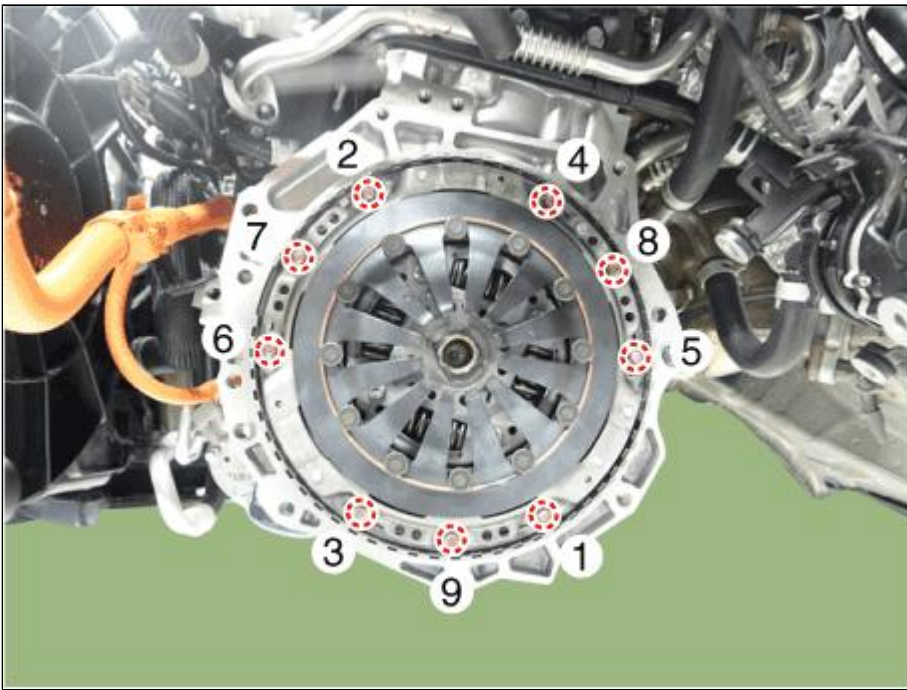
14.7 - 21.6 N.m (1.5 - 2.2 kgf.m, 10.8 - 15.9 lb-ft)

CAUTION

Install the all the components with the specified torques. If not, the clutch torque transaxle may have concerns or the mounting bolt can loosen.

When installing the clutch cover assembly, check the below fastening order for each number of bolts and tighten the bolts loosely. Then, fasten the bolts to their proper tightening torque. This can prevent twisting and vibration of the cover, and the lifting of the pressure plate.

- Fastening order for each number of bolts for installing the clutch cover assembly



4. Install the dual clutch transmission from the vehicle.
(Refer to DCT (Dual Clutch Transmission) System - "DCT (Dual Clutch Transmission)")
5. Perform the procedure below using the diagnostic tool according to the parts exchanged together.
 - (1) When exchanging the engine clutch set (Clutch disc & cover, Reservoir, Concentric slave cylinder, Clutch fluid, Engine clutch actuator)



■ Modular Clutch Actuator



■ System Identification



■ Engine clutch learning(when exchanging a part in addition to the engine clutch set)



■ Engine clutch learning(when exchanging the engine clutch set)



Do not touch any system buttons while performing this function.



• Engine clutch learning(when exchanging the engine clutch set)

Purpose	This function is to initialize the existing learning data and perform the engine clutch system learning again after exchanging the engine clutch set and the engine clutch set + MCA (actuator).
Enable Condition	1. Vehicle state: IG ON, HEV Not Ready 2. Gearstick : P-stage 3. Parking brake engagement 4. No accelerator pedal operation
Concerned Component	-
Concerned DTC	-
Fail Safe	-
Etc	1. No gear shift during learning 2. If the learning fails, delete the fault code and perform the learning again 3. Need to enter HEV Ready without IG OFF after MCA initialization

OK



Do not touch any system buttons while performing this function.

S/W Management

■ Engine clutch learning(when exchanging the engine clutch set)

● [Engine clutch learning(when exchanging the engine clutch set)]

This function is to initialize the existing learning data and perform the engine clutch system learning again after exchanging the engine clutch set and the engine clutch set + MCA (actuator).

●[Condition]

1. Vehicle state: IG ON, HEV Not Ready
2. Gearstick : P-stage
3. Parking brake engagement
4. No accelerator pedal operation

⚠[Caution]

1. No gear shift during learning
2. If the learning fails, delete the fault code and perform the learning again
3. Need to enter HEV Ready without IG OFF after MCA initialization

[OK] Button : Initialize MCA

[Cancel] Button : Optional function completed

OK

Cancel



Do not touch any system buttons while performing this function.

S/W Management

■ Engine clutch learning(when exchanging the engine clutch set)

● [Engine clutch learning]

MCA initialization is completed.

For the engine clutch learning, with IG ON and brake ON, press SSB to turn the ignition key ON (HEV Ready) \and click the **[OK]** button.

[Caution]

MCA initialization needs to be performed again under IG ON during IG OFF

[OK] Button : Perform the engine clutch learning

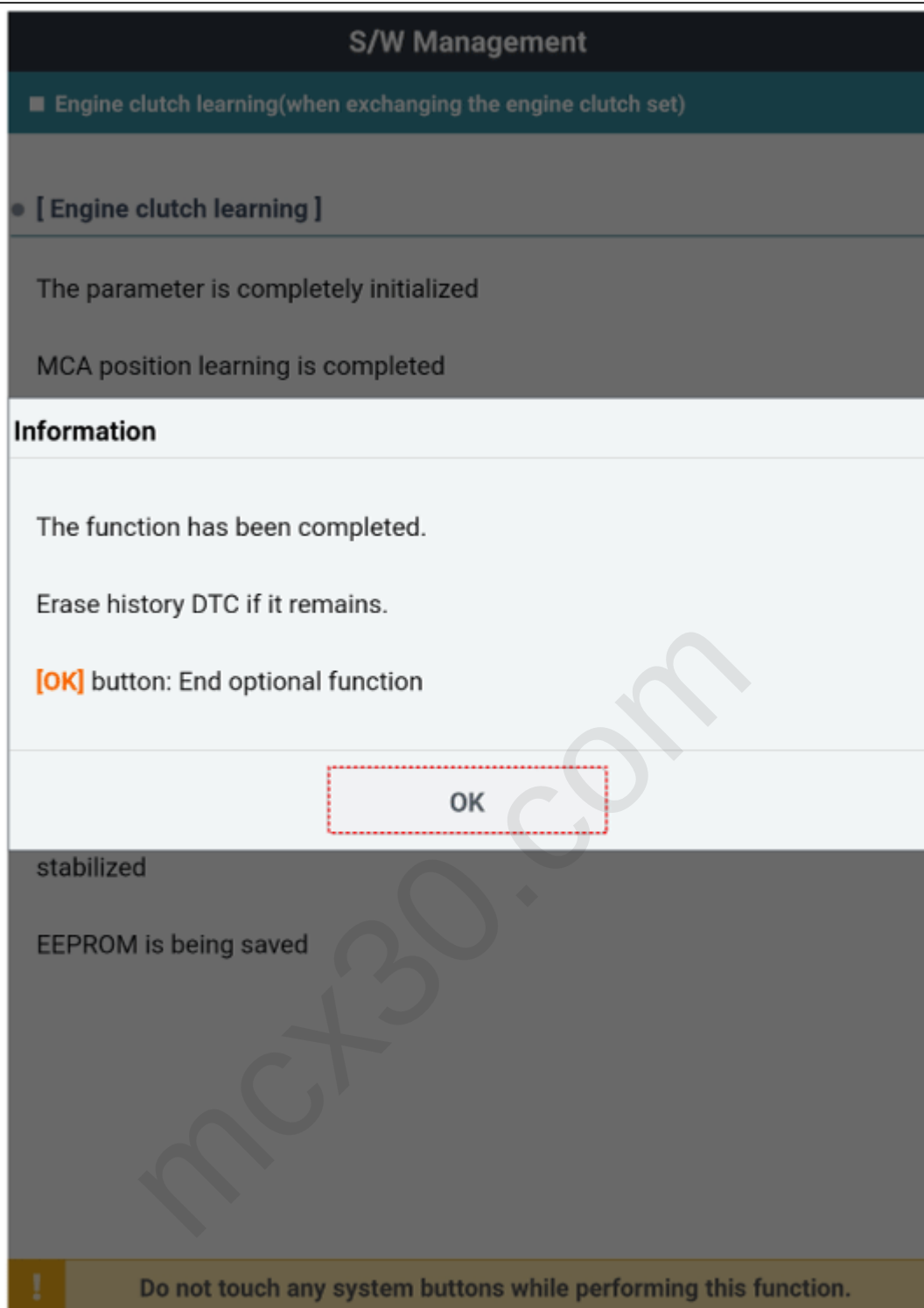
[Retry] button: Initialize MCA again

OK

Retry



Do not touch any system buttons while performing this function.



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