

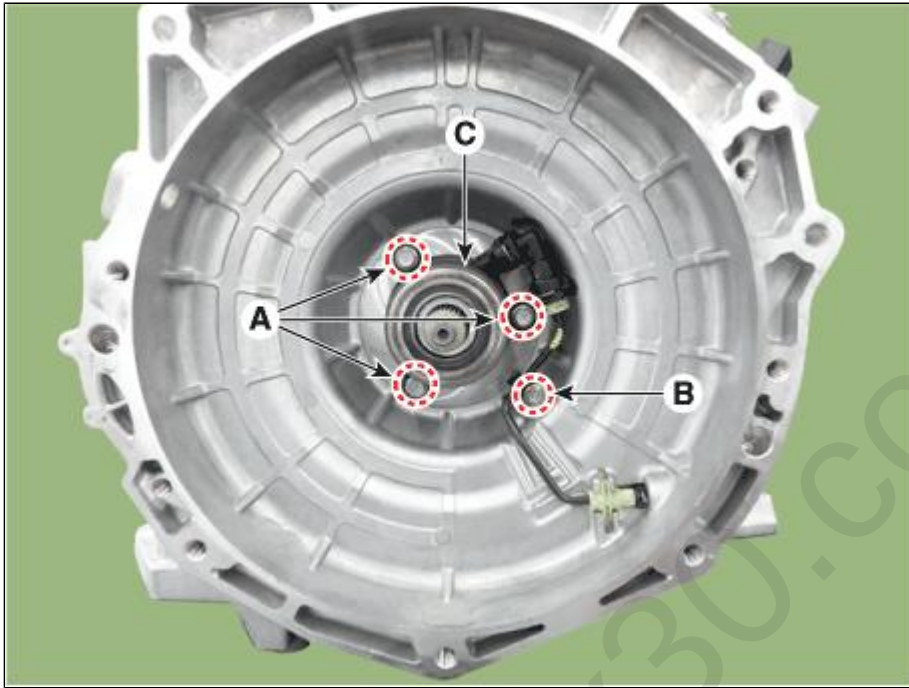
Removal

1. Remove the hybrid motor assembly.
(Refer to Hybrid Motor System - "Hybrid Motor Assembly")
2. Remove the engine clutch actuator.
(Refer to Engine Clutch System - "Engine Clutch Actuator")
3. Loosen the bolts (A, B) and then removing the concentric slaver cylinder (C).

Tightening torque :

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

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

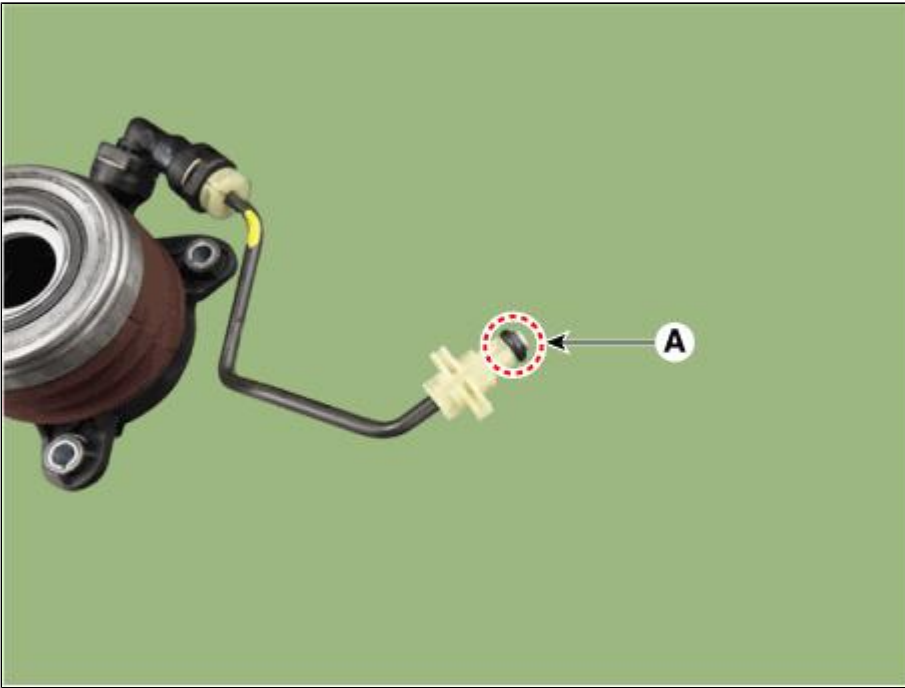


Installation

1. To install, reverse the removal procedures.

NOTICE

- ⌘ After tightening bolts temporarily, tighten the bolt completely at the same time with regulation torque.
- ⌘ When it is assembled, it must be free from invasive foreign matters and oil leakage.
- ⌘ Before installing the adapter, check the assembled state of the O-rings (A).



2. Perform the procedure below using the diagnostic tool according to the parts exchanged together.
- (1) When exchanging a part in addition to the engine clutch set (Dual clutch transmission, Hybrid motor, 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 a part in addition to 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 hydraulic line, MCA (actuator), transmission, and motor.
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



Do not touch any system buttons while performing this function.

S/W Management

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

● [Engine clutch learning(when exchanging a part in addition to the engine clutch set)]

This function is to initialize the existing learning data and perform the engine clutch system learning again after exchanging the hydraulic line, MCA (actuator), transmission, and motor.

●[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 a part in addition to 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

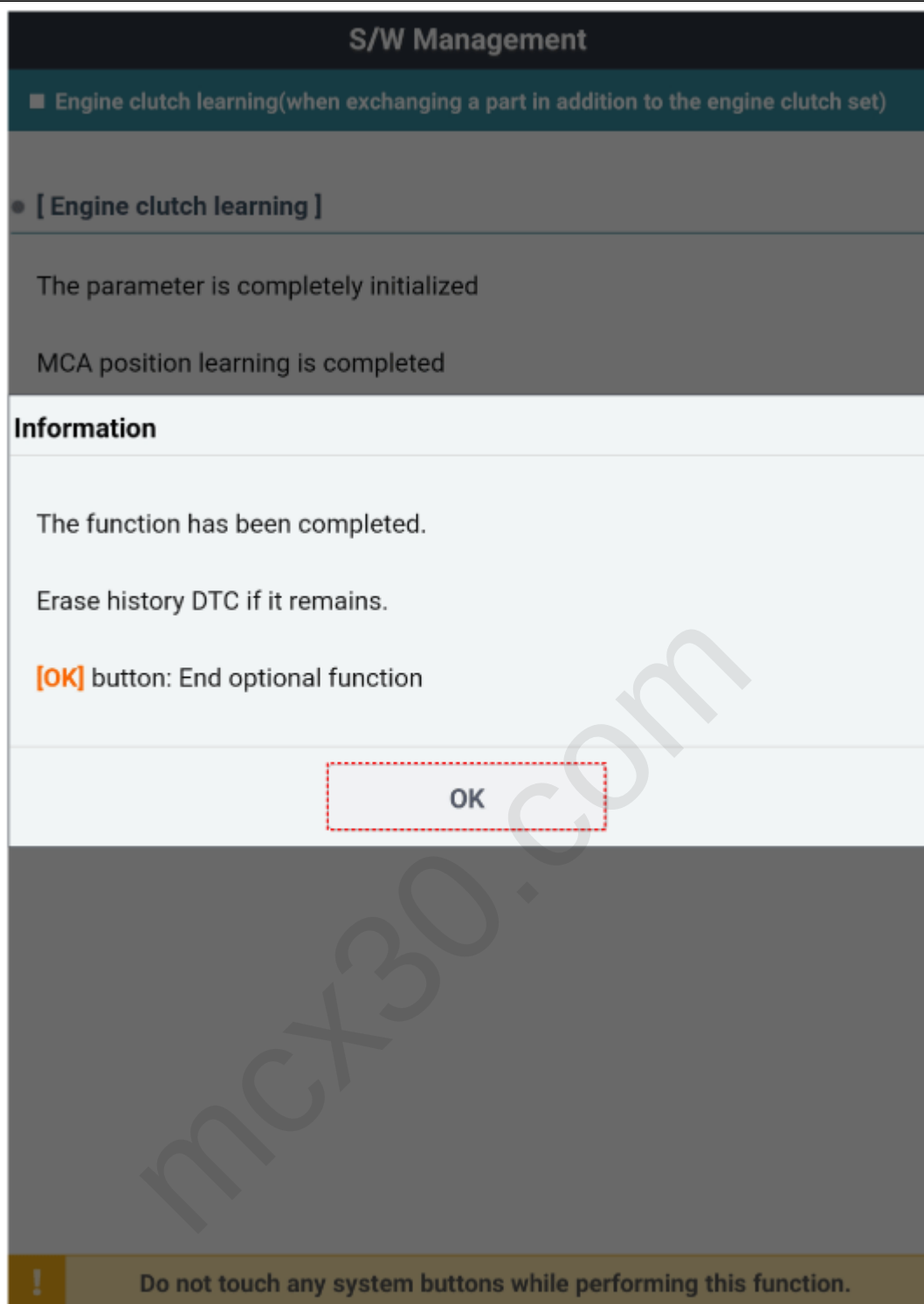
[Retry] button: Initialize MCA again

OK

Retry



Do not touch any system buttons while performing this function.



(2) 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



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.

S/W Management

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

● [Engine clutch learning]

The parameter is completely initialized

MCA position learning is completed

Information

The function has been completed.

Erase history DTC if it remains.

[OK] button: End optional function

OK

stabilized

EEPROM is being saved

!

Do not touch any system buttons while performing this function.

Rate this Document

☐ Document Type : SHOP

☐ Document Rating :

Please rate the above contents on a scale of 1 to 5.

Little Value

1

2

3

4

5

Excellent Value