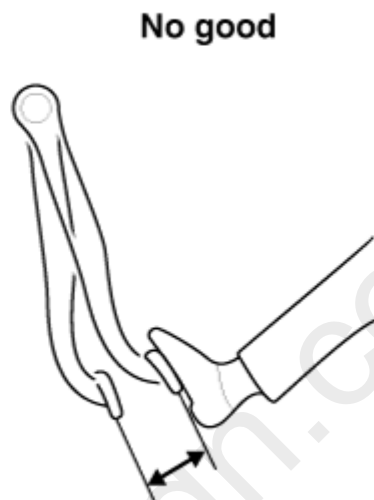
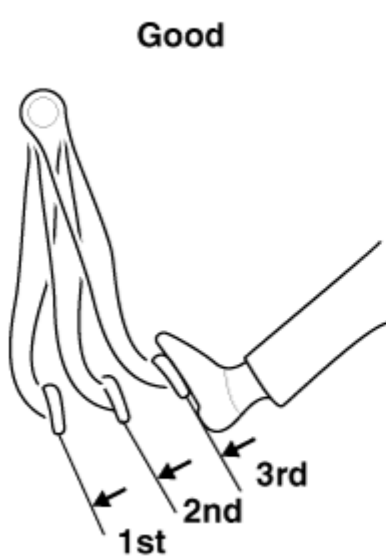


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BRAKE BOOSTER OPERATING TEST

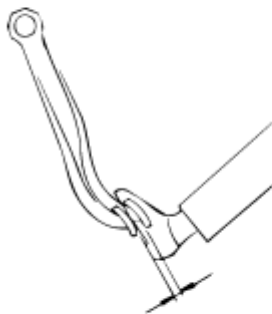
For simple checking of the brake booster operation, carry out the following tests.

1. Run the engine for one to two minutes, and then stop it. If the pedal depresses fully initially but gradually becomes higher in the successive attempts, the booster is operating properly. If the pedal height remains unchanged, the booster is inoperative.

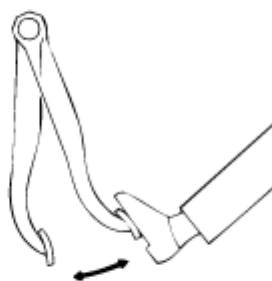


2. With the engine stopped, step on the brake pedal several times. Then step on the brake pedal and start the engine. If the pedal moves downward slightly, the booster is in good condition. If there is no change, the booster is inoperative.

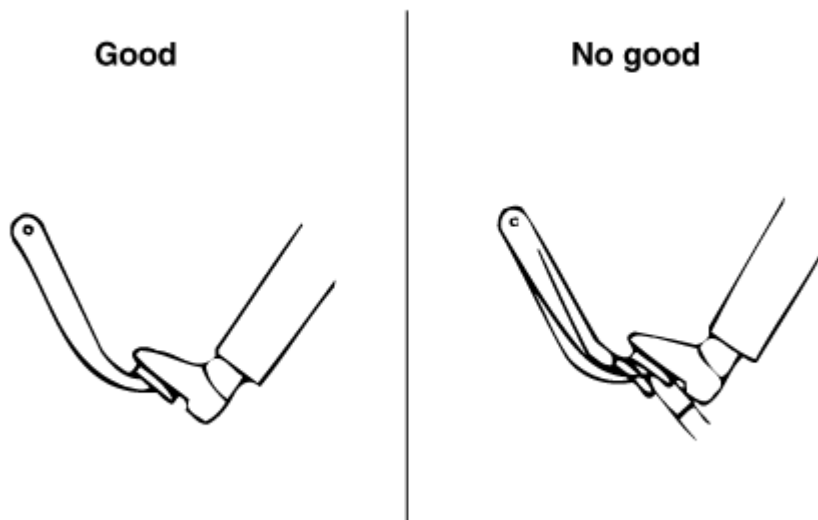
When engine is stopped



When engine is started



3. With the engine running, step on the brake pedal and then stop the engine. Hold the pedal depressed for 30 seconds. If the pedal height does not change, the booster is in good condition, and if the pedal rises, the booster is inoperative. If the three tests above are satisfied, the booster performance can be considered as in good condition.



REMOVAL

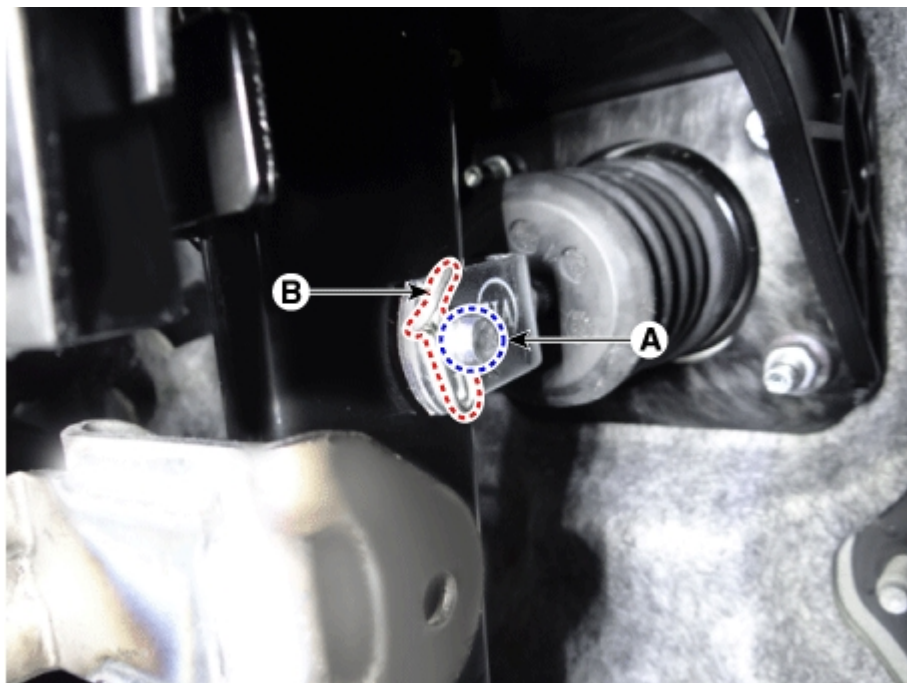
[LHD]

1. Turn ignition switch OFF and disconnect the negative (-) battery cable.
2. Remove the brake fluid from the master cylinder reservoir with a syringe.

NOTICE

Do not spill brake fluid on the vehicle as it may damage the paint. If brake fluid comes in contact with the paint, wash off immediately with water.

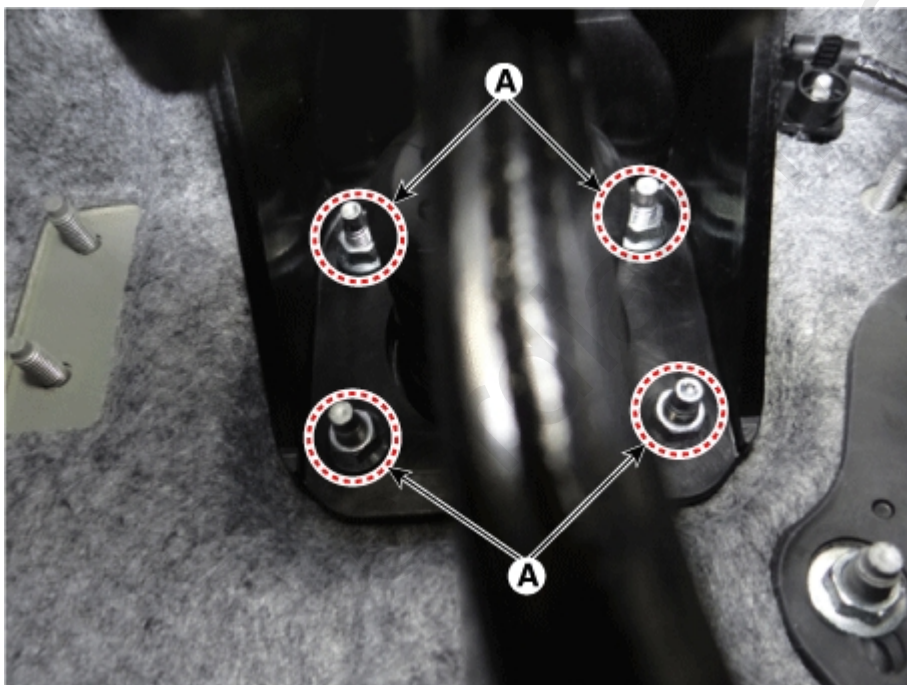
3. Remove the crash pad lower panel.
(Refer to Body - "Crash Pad Lower Panel")
4. Remove the knee airbag.
(Refer to Restraint - "Knee airbag (KAB) module")
5. Remove the snap pin (A) and clevis pin (B).



6. Remove the brake booster mounting nuts (A).

Tightening torque:

16.7 - 22.5 N·m (1.7 - 2.3 kgf·m, 12.3 - 16.6 lb·ft)



7. Remove the hood sealing cover.



8. Remove the engine control module (ECM).

D 2.2 R VGT (Refer to Engine Control /Fuel System - "Engine Control Module (ECM)")

D 2.2 R VGT (Enhanced Euro 6) (Refer to Engine Control /Fuel System - "Engine Control Module (ECM)")

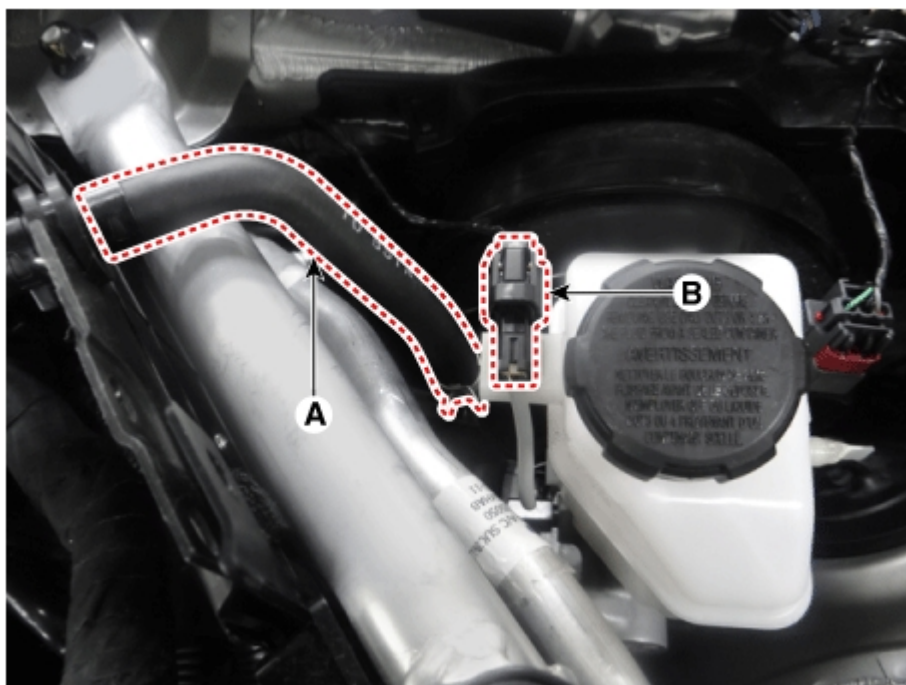
G 2.0 T-GDI (Refer to Engine Control /Fuel System - "Engine Control Module (ECM)")

G 3.3 T-GDI (Refer to Engine Control /Fuel System - "Engine Control Module (ECM)")

9. Disconnect the ISG connector.



10. Disconnect the brake vacuum hose (A) and brake fluid level sensor connector (B).



11. Remove the brake master cylinder.
(Refer to Brake System - "Master cylinder")

12. Remove the brake booster.

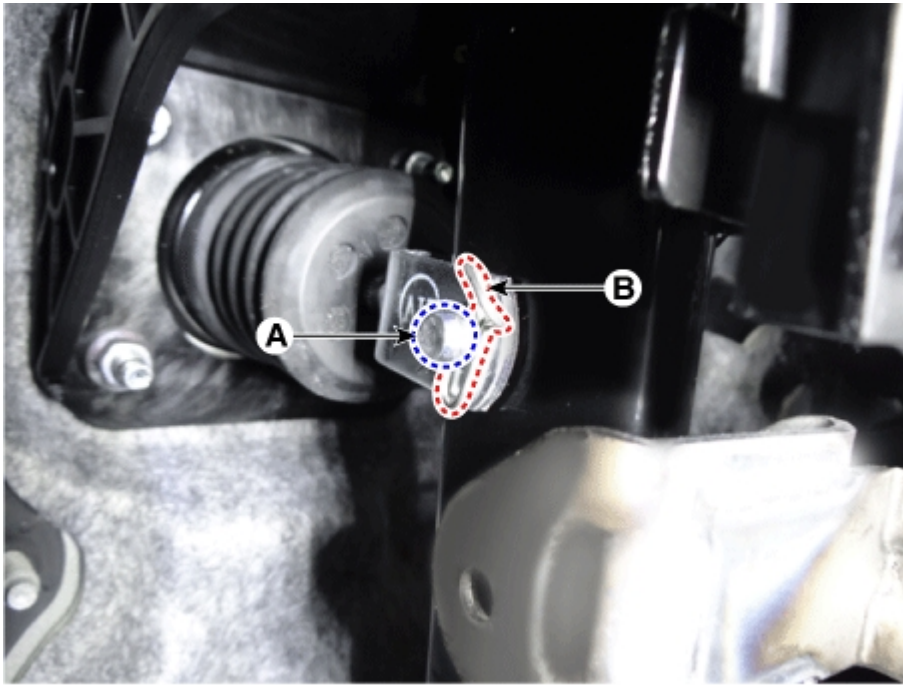
[RHD]

1. Turn ignition switch OFF and disconnect the negative (-) battery cable.
2. Remove the brake fluid from the master cylinder reservoir with a syringe.

NOTICE

Do not spill brake fluid on the vehicle as it may damage the paint. If brake fluid comes in contact with the paint, wash off immediately with water.

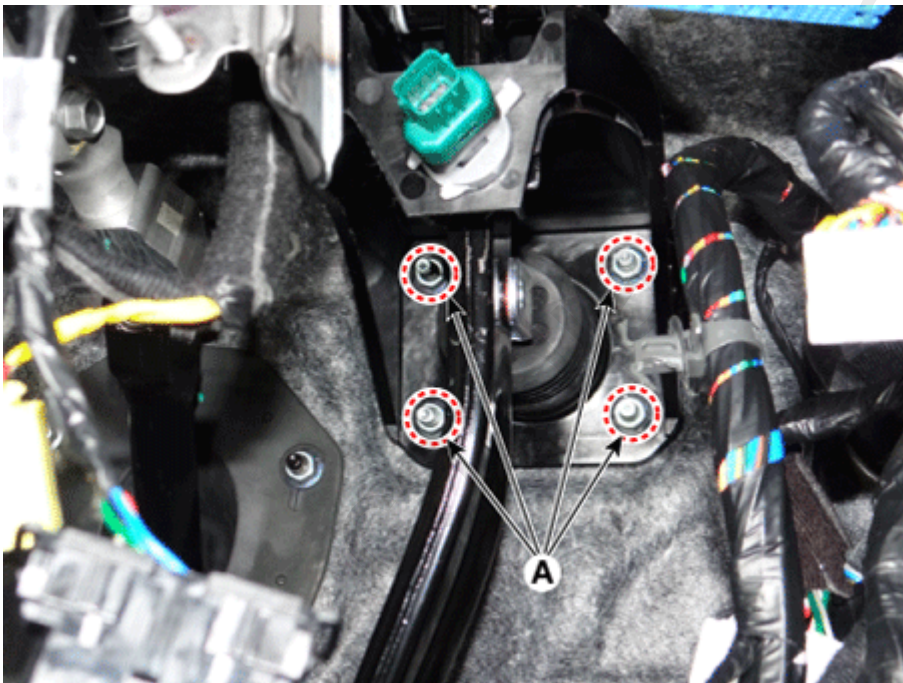
3. Remove the crash pad lower panel.
(Refer to Body - "Crash Pad Lower Panel")
4. Remove the knee airbag.
(Refer to Restraint - "Knee airbag (KAB) module")
5. Remove the snap pin (A) and clevis pin (B).



6. Remove the brake booster mounting nuts (A).

Tightening torque:

16.7 - 22.5 N·m (1.7 - 2.3 kgf·m, 12.3 - 16.6 lb·ft)

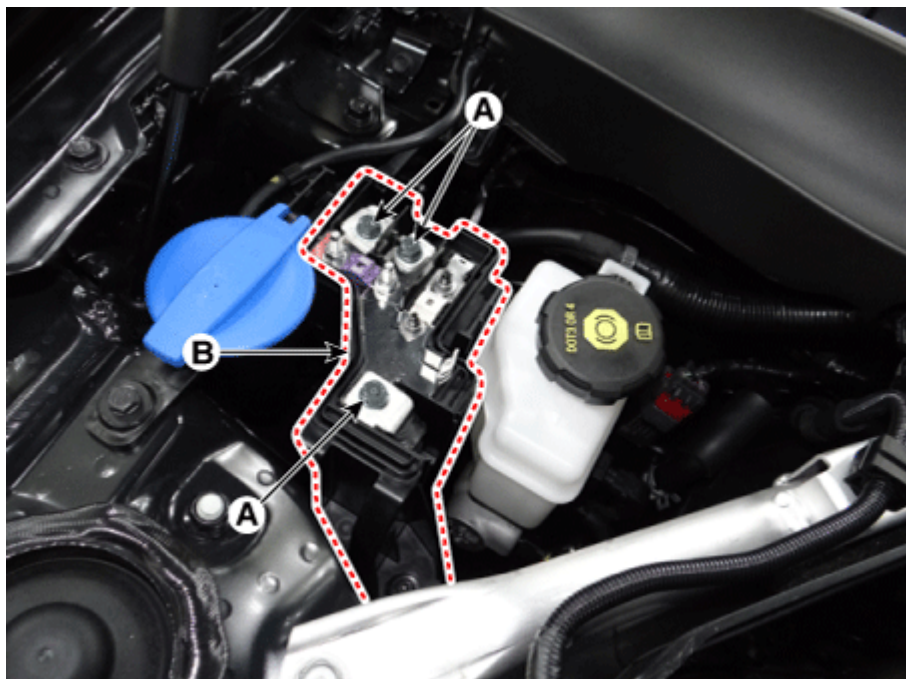


7. Disconnect the wirings (A) from the joint junction block.

8. Detach the joint junction block (B).

Tightening torque:

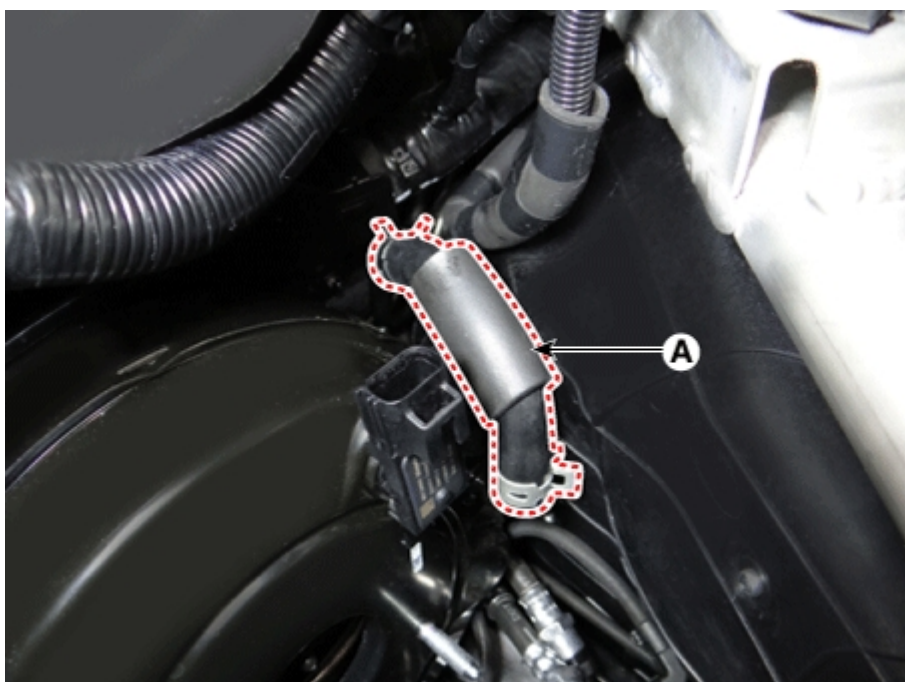
10.8 - 13.7 N·m (1.1 - 1.4 kgf·m, 8.0 - 10.1 lb·ft)



9. Disconnect the vacuum sensor connector (A).



10. Disconnect the brake vacuum hose (A).



11. Remove the brake master cylinder.
(Refer to Brake System - "Master cylinder")

12. Remove the brake booster (A).



INSPECTION

1. Inspect the vacuum hose.
2. Check the boot for damage.

INSTALLATION

1. Install in the reverse order of removal.

NOTICE

- Before installing the pin, apply the grease to the joint pin.
- Use a new snap pin whenever installing.

English

2. After installation, bleed the brake system.

(Refer to Brake system - "Brake Bleeding Procedures")

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