Adjustment

Brake System Bleeding

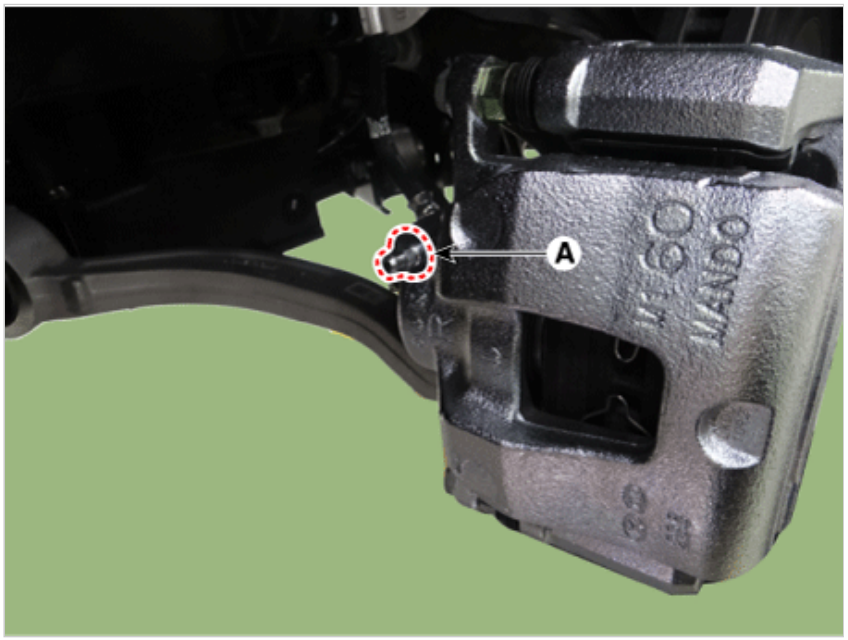
NOTICE

- Do not reuse the drained fluid.
- Always use genuine DOT3/DOT4 brake fluid.
  Using a non-genuine DOT3/DOT4 brake fluid can cause corrosion and decrease the life of the system.
- Avoid contaminating the brake fluid by keeping it away from dirt or other foreign matters.
- Do not spill brake fluid on the vehicle as it may damage the paint; if brake fluid does contact the paint, wash it off immediately with water.
- The reservoir on the master cylinder must be at the MAX (upper) level mark at the start of bleeding procedure and checked after bleeding each brake caliper.

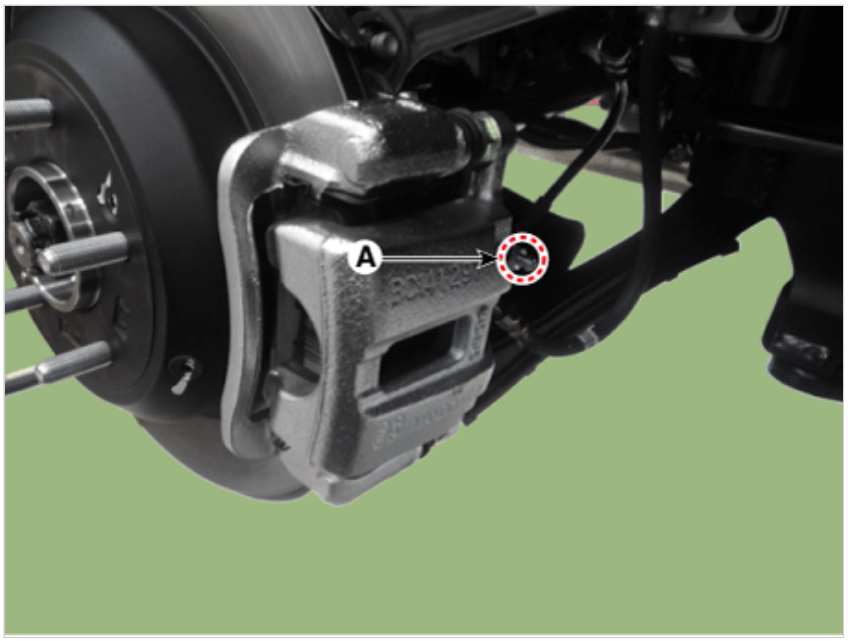
1. Make sure that the brake fluid in the reservoir is filled up to the MAX (upper) level line.
2. Have someone slowly pump the brake pedal several times, and then apply pressure.
3. Loosen the rear right-hand side brake bleed screw (A) to allow air to escape from the system. Then tighten the bleed screw securely.

[Normal brake]

Front



Rear

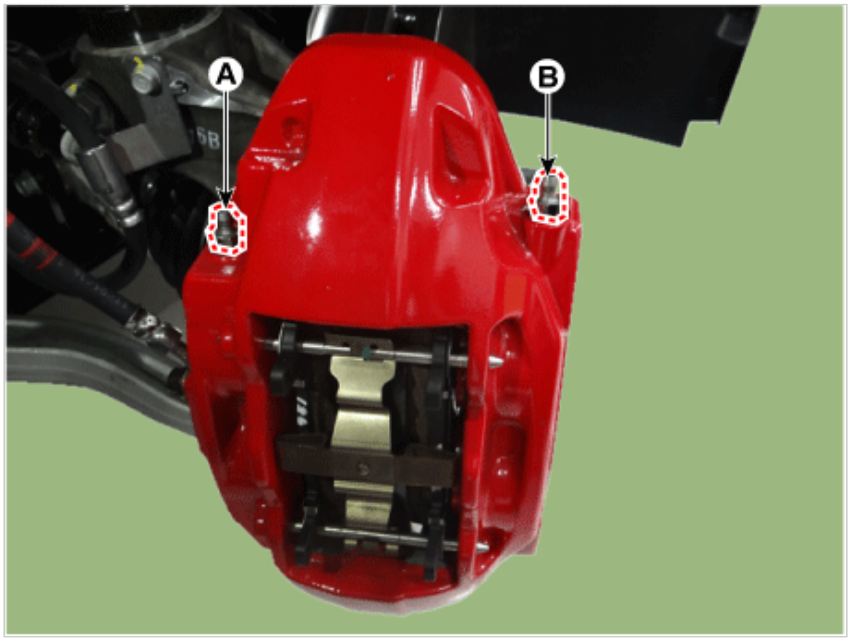


[Brembo brake]

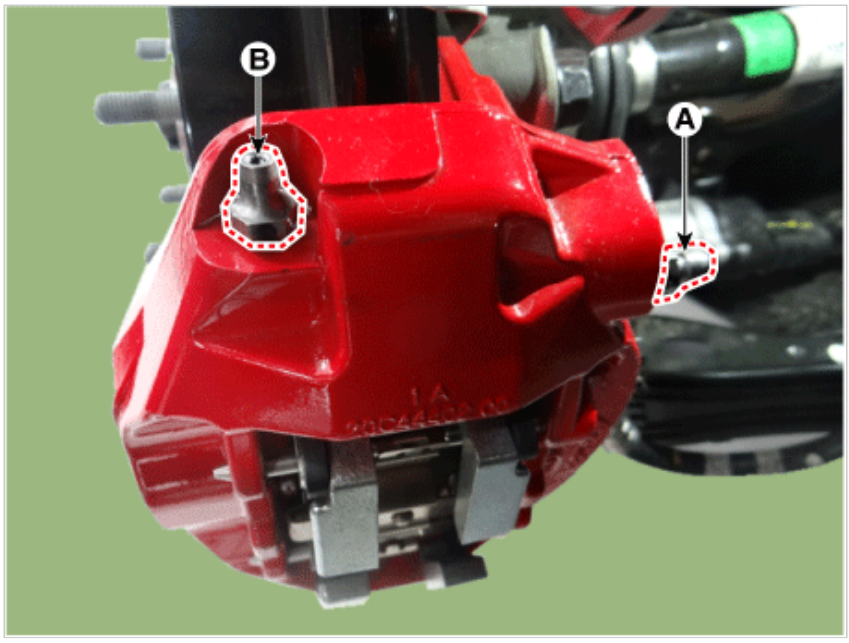
NOTICE

Let the inner (A) air bleeding and then let the outer (B) air when the procedure of air bleeding brembo brake air.

Front

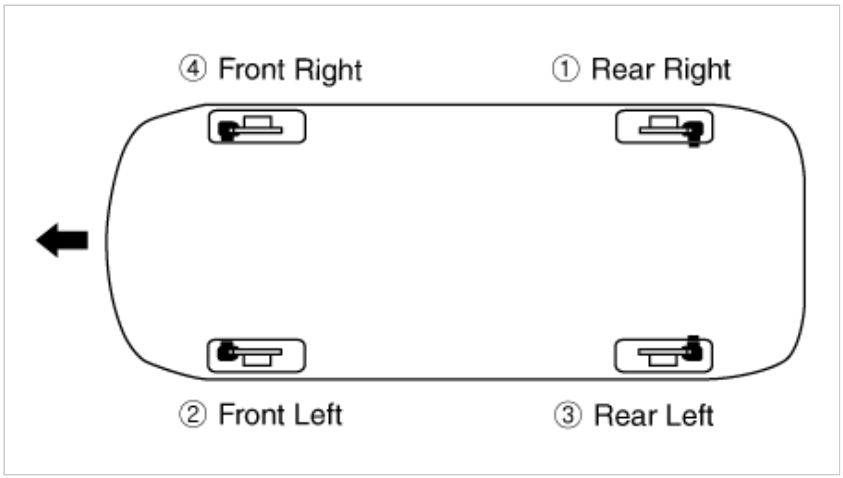


Rear

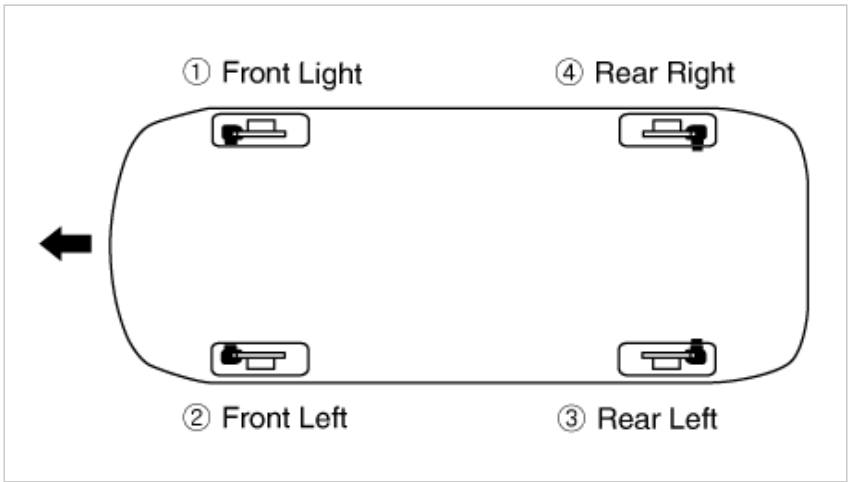


4. Repeat the procedure for all wheels in the sequence shown below until air bubbles no longer appear in the fluid.

[Normal brake]



[Brembo brake]



5. Refill the master cylinder reservoir up to the MAX (upper) level line.

NOTICE

Do not reuse the old brake fluid. Use only new clean brake fluid.

ESC Bleeding of Brake System

Follow this procedure to ensure adequate bleeding of air and filling of the ESC unit, brake lines and master cylinder with brake fluid.

1. Remove the reservoir cap and fill the brake reservoir with brake fluid.

> **⚠ CAUTION**
> • If there is any brake fluid on any painted surface, wash it off immediately.

> ***NOTICE***
> • When pressure bleeding, do not depress the brake pedal.
> • Recommended fluid: DOT3 or DOT4

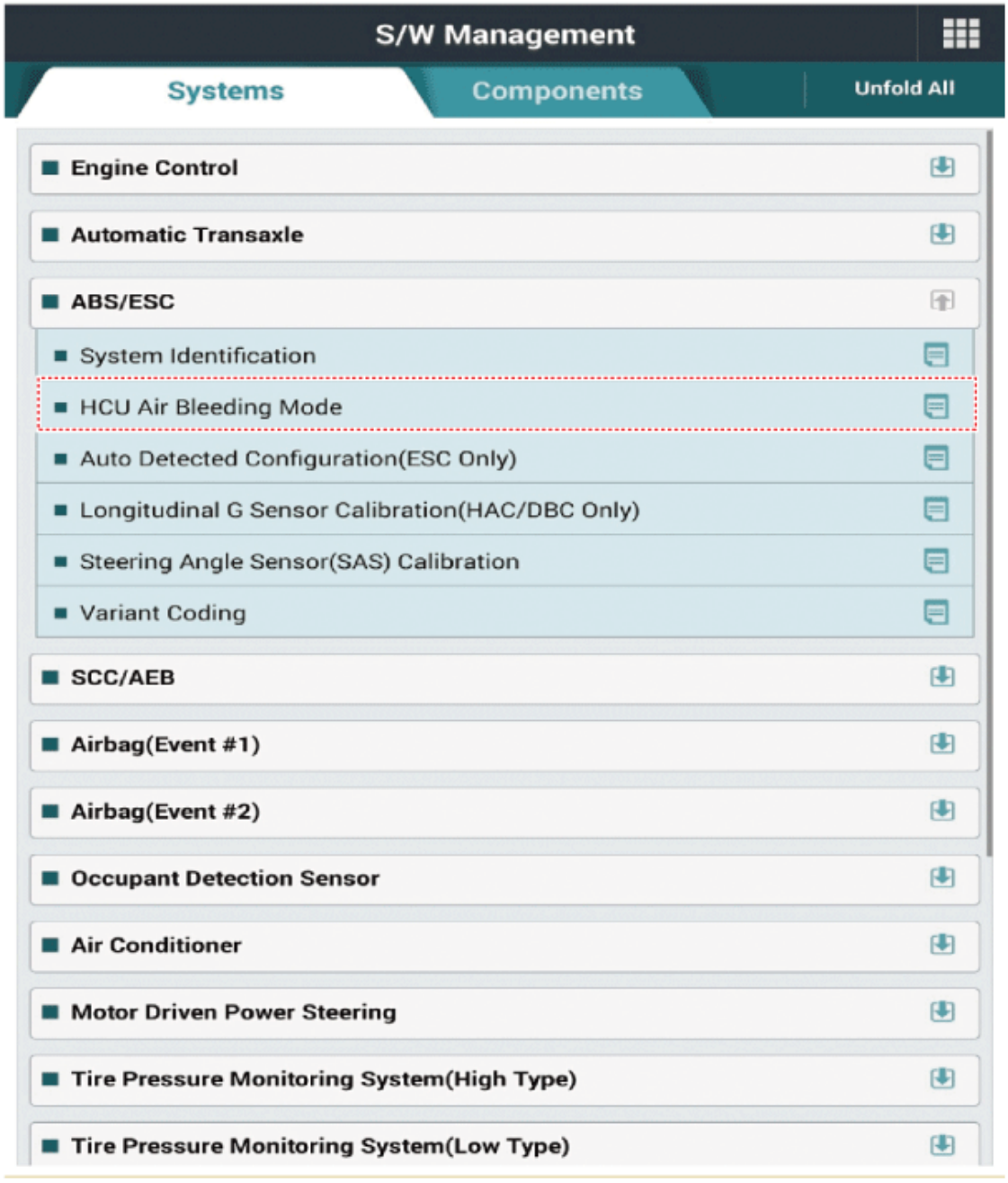
2. Connect a clear plastic tube to the wheel cylinder bleeder plug and insert the other end of the tube into a half filled clear plastic bottle.
3. Connect the KDS to the data link connector located underneath the dash panel.
4. Select and operate according to the instructions on the KDS screen.

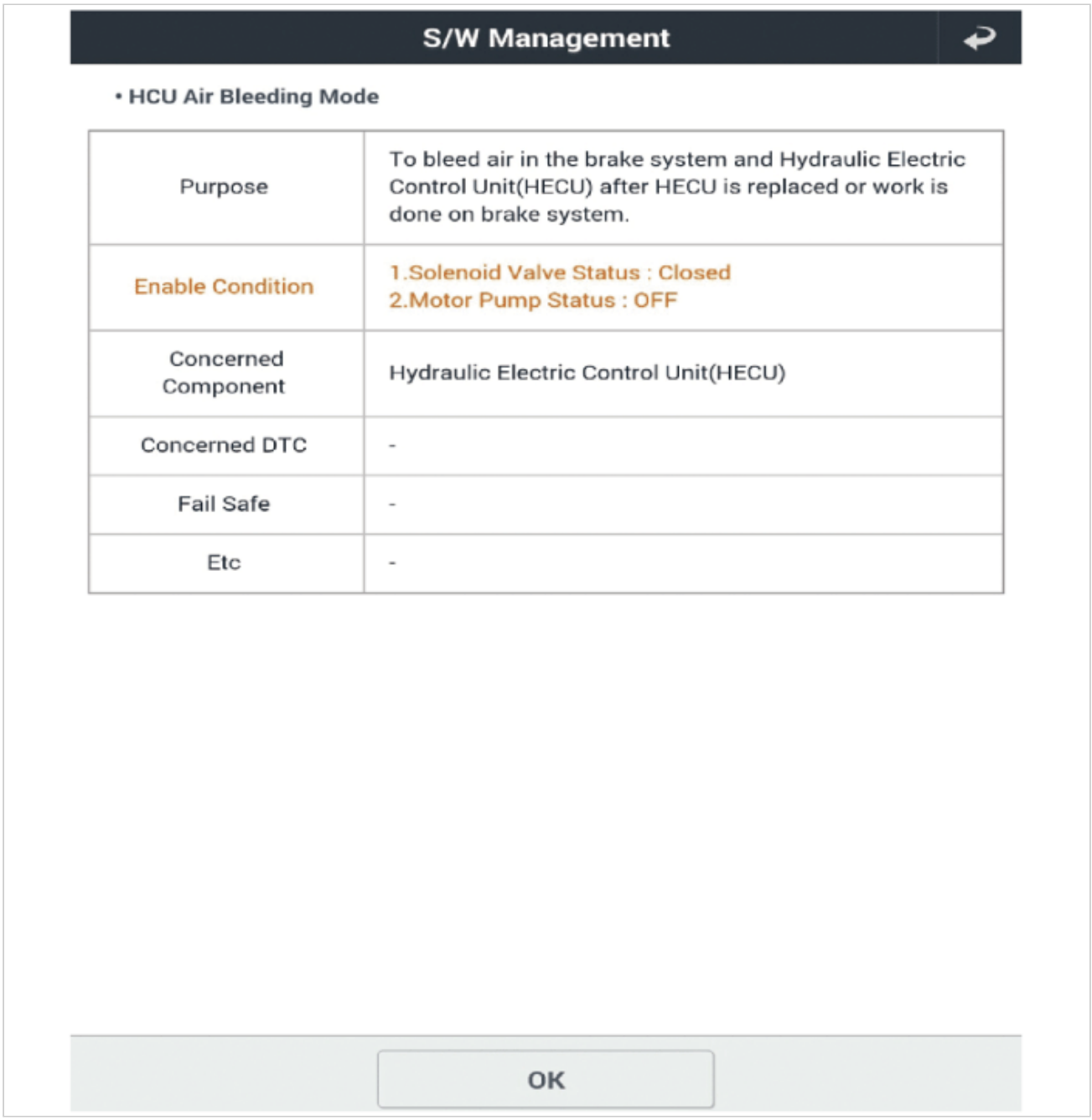
> **⚠ CAUTION**
> • Comply with the maximum operating time of the ESC motor on the KDS to prevent the motor pump from burning.

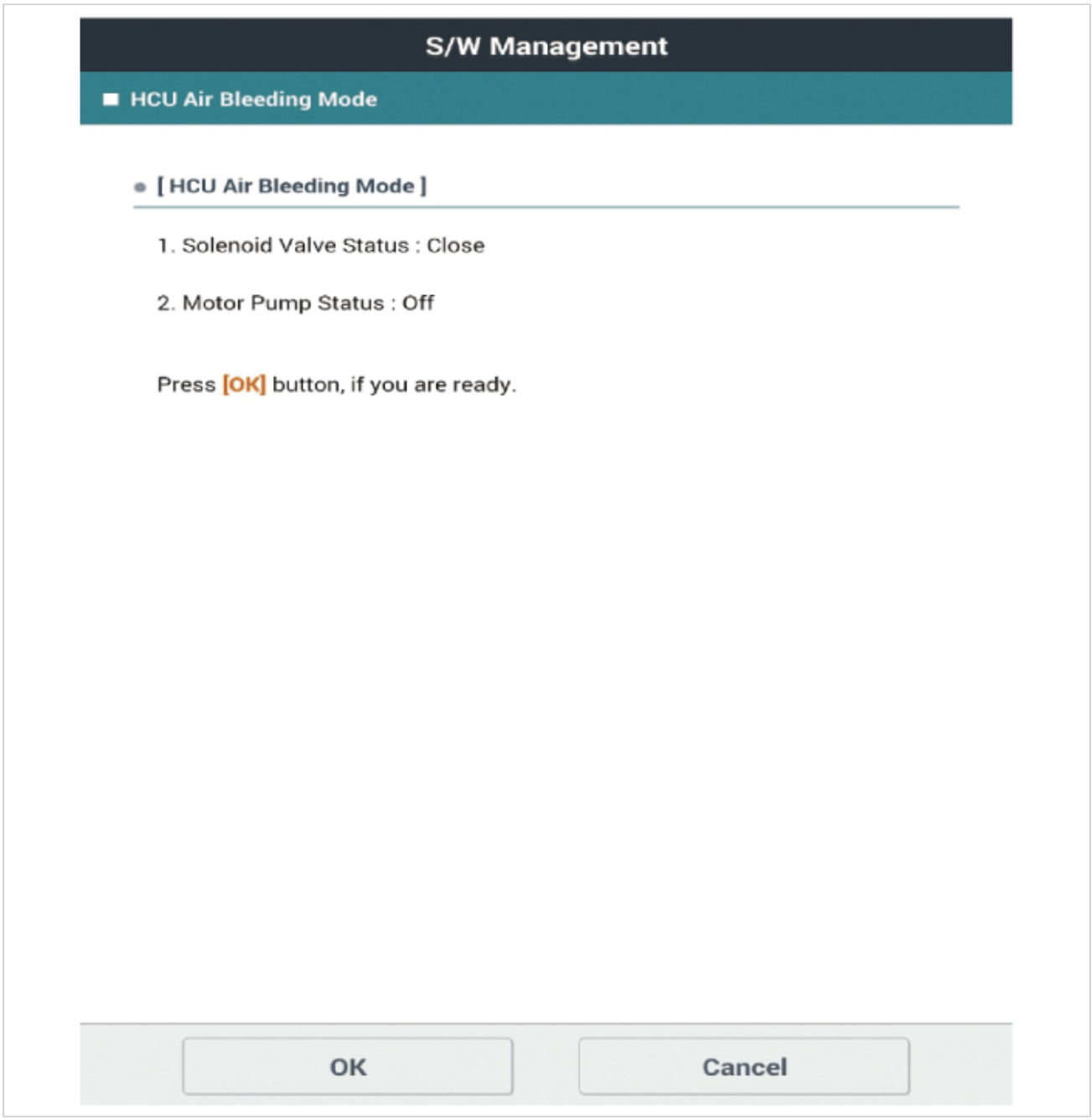
(1) Select vehicle name.

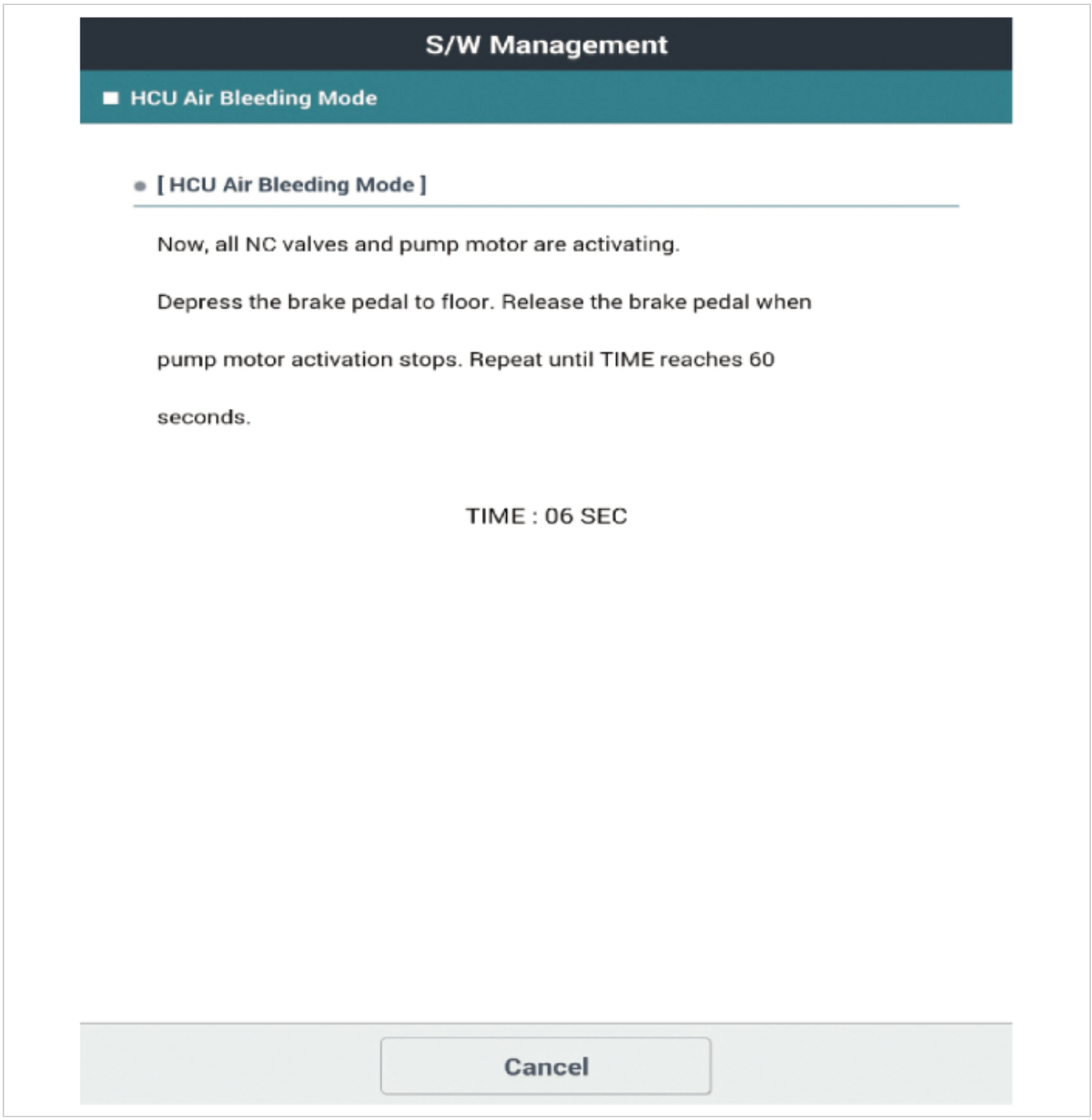
(2) Select ABS/ESC system.

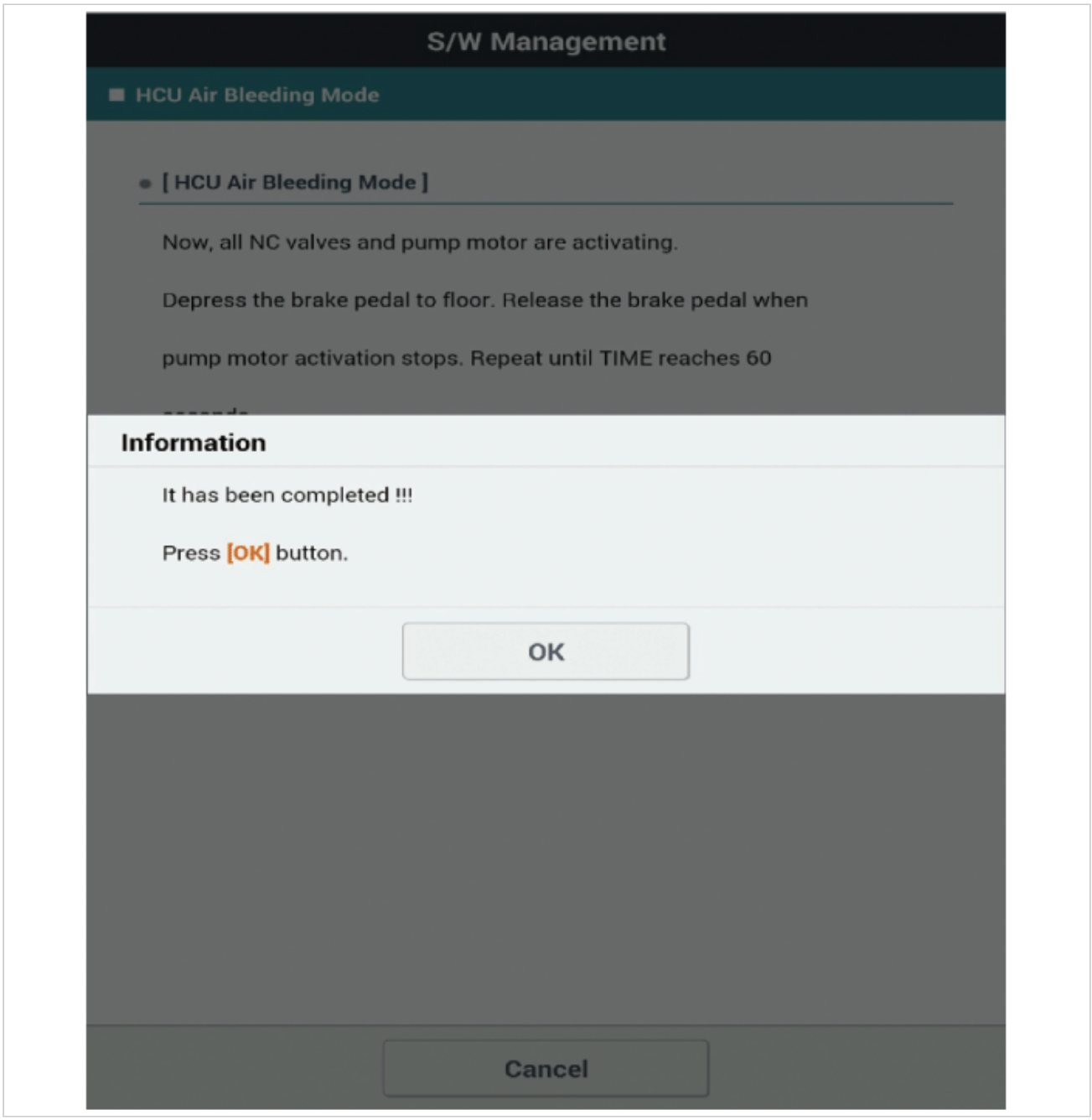
(3) Select HCU air bleeding mode.


S/W Management
Systems
Components
Unfold All
Engine Control
Automatic Transaxle
ABS/ESC
System Identification
HCU Air Bleeding Mode
Auto Detected Configuration(ESC Only)
Longitudinal G Sensor Calibration(HAC/DBC Only)
Steering Angle Sensor(SAS) Calibration
Variant Coding
SCC/AEB
Airbag(Event #1)
Airbag(Event #2)
Occupant Detection Sensor
Air Conditioner
Motor Driven Power Steering
Tire Pressure Monitoring System(High Type)
Tire Pressure Monitoring System(Low Type)


S/W Management
• HCU Air Bleeding Mode
Purpose
To bleed air in the brake system and Hydraulic Electric Control Unit(HECU) after HECU is replaced or work is done on brake system.
Enable Condition
1.Solenoid Valve Status : Closed
2.Motor Pump Status : OFF
Concerned Component
Hydraulic Electric Control Unit(HECU)
Concerned DTC
-
Fail Safe
-
Etc
-
OK


S/W Management
HCU Air Bleeding Mode
[HCU Air Bleeding Mode]
1. Solenoid Valve Status : Close
2. Motor Pump Status : Off
Press [OK] button, if you are ready.
OK
Cancel

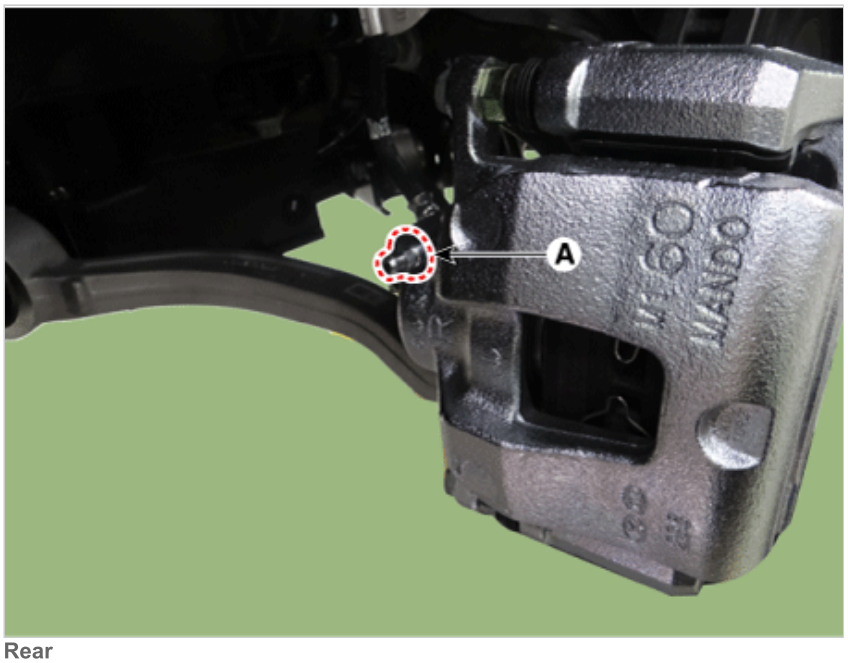

S/W Management
HCU Air Bleeding Mode
[HCU Air Bleeding Mode]
Now, all NC valves and pump motor are activating.
Depress the brake pedal to floor. Release the brake pedal when
pump motor activation stops. Repeat until TIME reaches 60
seconds.
TIME : 06 SEC
Cancel



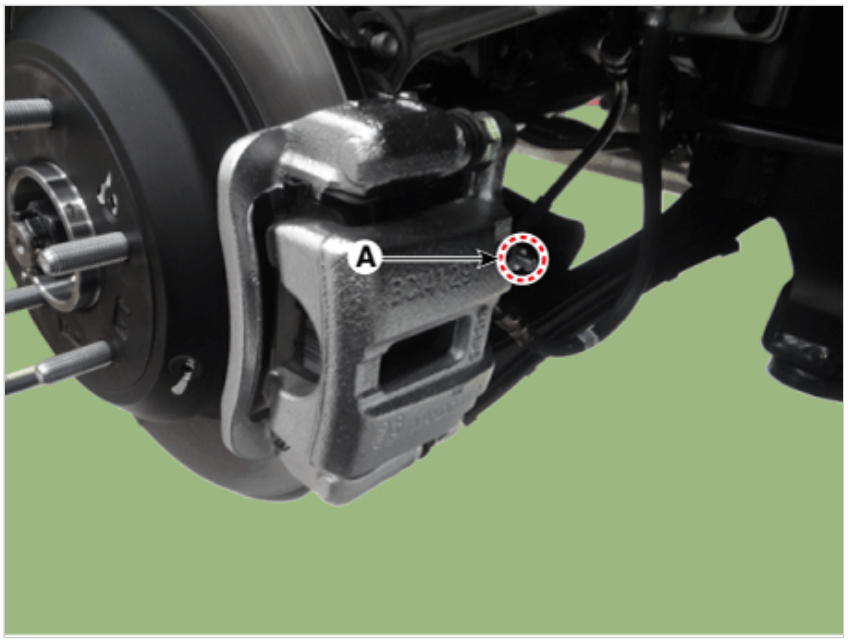
5. Pump the brake pedal several times, and then loosen the bleeder screw until fluid starts to run out without bubbles. Then close the bleeder screw (A).

[Normal brake]

Front



Rear



[Brembo brake]

NOTICE

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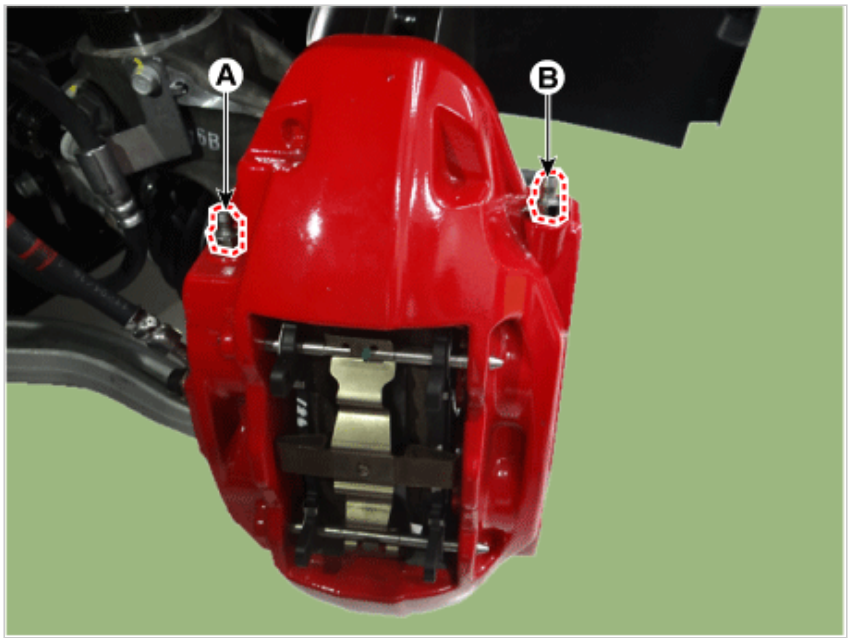
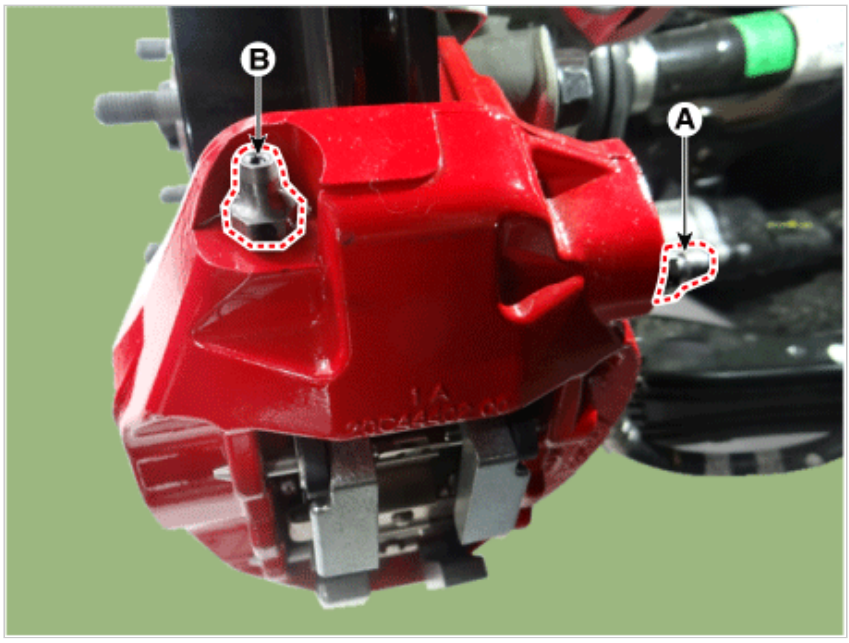
Front

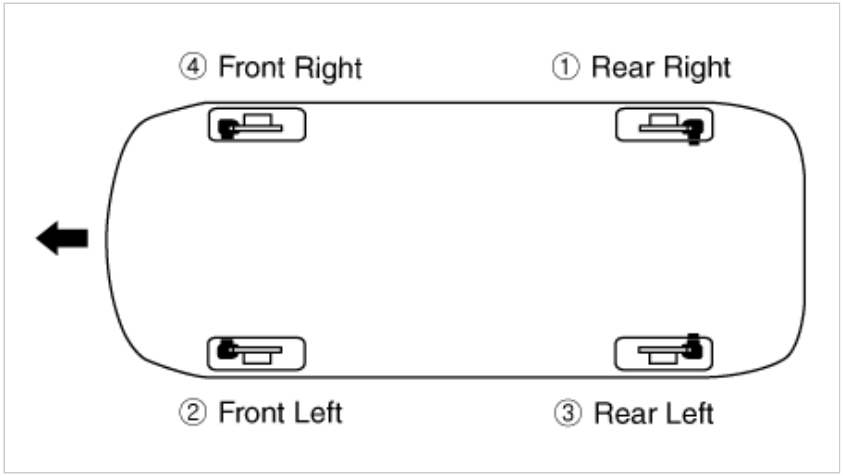


Rear

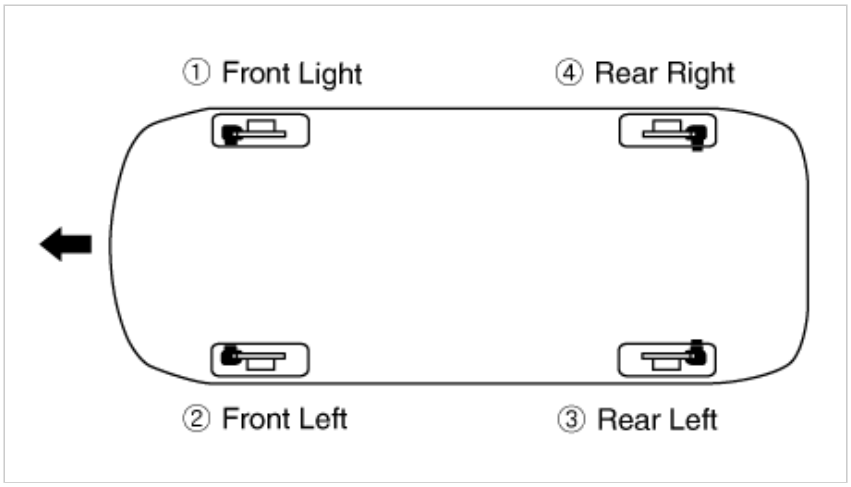


6. Repeat step 5 in the order shown below until there are no more bubbles in the fluid for each wheel.

[Normal brake]



[Brembo brake]



7. Tighten the bleeder screw.

Bleed screw tightening torque
17 in : 6.9 - 12.7 N·m (0.7 - 1.3 kgf·m, 5.1 - 9.4 lb·ft)
18 in : 16.7 - 19.6 N·m (1.7 - 2.0 kgf·m, 12.3 - 14.5 lb·ft)