ON-VEHICLE INSPECTION

NOTICE:

If using a dropper to adjust the fluid amount, make sure that the dropper has not been used with mineral oils, water or deteriorated brake fluid. Sealed areas may deteriorate and lead to fluid leaks, or the fluid may deteriorate and lead to decreased efficiency.

HINT:

If the brake fluid level is lower than the MIN line, inspect for brake fluid leaks and brake pad wear. After repair or replacement, adjust the brake fluid level in the reservoir as specified below.

1. INSPECT AND ADJUST FLUID LEVEL IN RESERVOIR (for Using the Techstream)

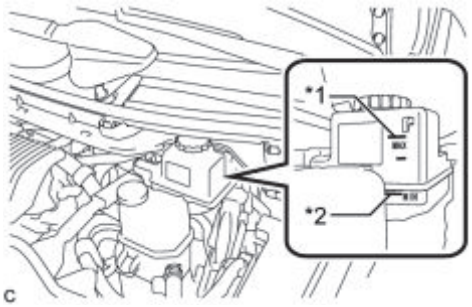
(a) Connect the Techstream to the DLC3 with the power switch off.

(b) Check that park (P) is selected and the parking brake is applied, and turn the power switch on (IG).

(c) Turn the Techstream on and enter the following menus: Chassis / ABS/VSC/TRC / Utility / ECB (Electronically Controlled Brake system) utility / Zero Down.

(d) Select "Next" and wait for 10 seconds.

(e) After the booster pump stopped, inspect the fluid level is between the MAX and MIN lines. If necessary, refill the brake fluid to the MAX line.



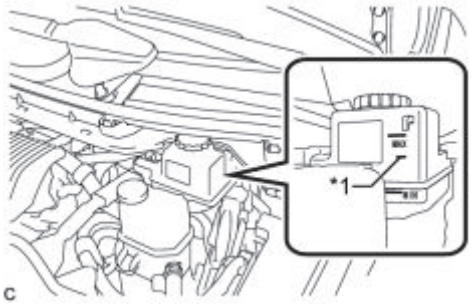
Text in Illustration

*1	MAX Line
*2	MIN Line

Brake fluid:

SAE J1703 or FMVSS No. 116 DOT3

2. INSPECT AND ADJUST FLUID LEVEL IN RESERVOIR (for not Using the Techstream)



(a) Inspect the fluid level is above the MIN line with the power switch on (IG). If necessary, refill the brake fluid to the fluid level support line with the power switch on (IG).

Text in Illustration

*1	Fluid Level Support Line

REPLACEMENT

HINT:

There are 2 ways of brake fluid replacement: using the Techstream or not using the Techstream.

NOTICE:

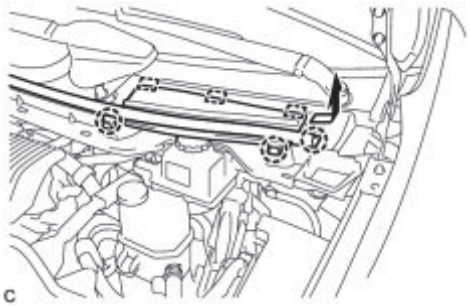
- Perform fluid replacement with park (P) selected and the parking brake applied.
- As brake fluid may overflow when replacing brake fluid, do not place the fluid can on the reservoir filler opening.
- Perform fluid replacement while maintaining the brake fluid level between the MIN/MAX level on the brake fluid reservoir.
- Replacing brake fluid will be difficult if the following occurs:
    a. The brake actuator hose (the hose between the brake booster pump and brake fluid reservoir) is lowered into the fluid and air enters the hose.
    b. During the fluid replacement procedure, air enters the brake booster pump while operating the pump motor.
- While performing fluid replacement, the accumulator pressure drop may cause a buzzer to sound. As there is no problem, continue with the fluid replacement.
- During fluid replacement, DTCs for pressure sensor malfunctions, etc. may be stored. After fluid replacement and if instructed in the procedures, clear the DTCs.
- Do not allow brake fluid to adhere to any painted surface such as the vehicle body. If brake fluid leaks onto any painted surface, immediately clean it off.

1. REPLACE BRAKE FLUID (for Using the Techstream)

NOTICE:

- Add brake fluid carefully and check that the reservoir level remains between the MIN and MAX lines.
- Do not stand the fluid can on the reservoir inlet. Doing so will cause brake fluid to overflow.

(a) Remove the center cowl top ventilator cover.

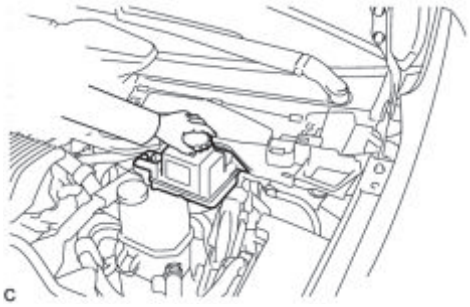


(1) Slide the hood to cowl top seal and disengage the claw.

(2) Disengage the 2 claws and 3 guides, and remove the center cowl top ventilator cover.

(b) Replace brake fluid.

(1) Remove the brake master cylinder reservoir filler cap assembly.



(2) Add brake fluid into the reservoir between MAX and MIN level on the brake fluid reservoir.

Brake fluid:

SAE J1703 or FMVSS No. 116 DOT3

(3) Connect the Techstream to the DLC3 and turn the power switch on (IG).

(4) Turn the Techstream on and enter the following menus: Chassis / ABS/VSC/TRC / Air Bleeding.

(5) Select the "Usual air bleeding" on the Techstream display, and replace the brake fluid following the instructions on the Techstream.

(6) After replacing brake fluid, tighten each bleeder plug.

front bleeder plug - Torque: **8.3 N·m (85 kgf·cm, 73in·lbf)**

rear bleeder plug - Torque: **11 N·m (112 kgf·cm, 8ft·lbf)**

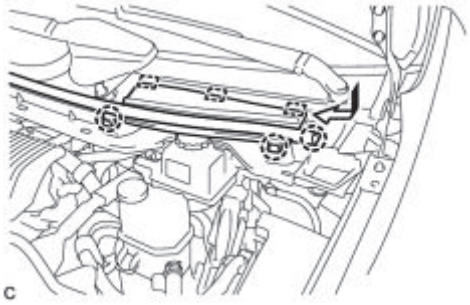
(c) Clear the DTCs INFO.

(d) Turn the Techstream off and turn the power switch off.

(e) Inspect for brake fluid leaks.

(f) Install the brake master cylinder reservoir filler cap.

(g) Install the center cowl top ventilator cover.



(1) Engage the 2 claws and 3 guides to install the center cowl top ventilator cover.

(2) Slide the hood to cowl top seal to engage the claw.

2. REPLACE BRAKE FLUID (for not Using the Techstream)

NOTICE:

- Performing the following procedure will select ECB (Electronically Controlled Brake system) Invalid Mode without using the Techstream.
- ECB (Electronically Controlled Brake system) Invalid Mode allows the brake fluid to be replaced without using the Techstream.
- The brake warning light / yellow will blink to indicate when ECB (Electronically Controlled Brake system) Invalid Mode is selected.
- Be sure to inspect that the brake warning light / yellow is blinking while replacing the brake fluid.
- When one of the following conditions is met, ECB (Electronically Controlled Brake system) Invalid Mode is cancelled, and then the DTCs may be stored. So do not cancel the ECB (Electronically Controlled Brake system) Invalid Mode while replacing brake fluid.

The shift lever is used to select from P to any other position.
Turn the power switch on (READY).
Turn the power switch off.
The parking brake is released.
The vehicle velocity is not 0 km/h (0 mph).

- Do not rotate the brake disc while ECB (Electronically Controlled Brake system) Invalid Mode is selected.
- When replacing the brake fluid from the brake line, do not depress the brake pedal to operate the brake booster pump more than 100 seconds. If the brake booster pump is operated more than 100 seconds, ECB (Electronically Controlled Brake system) Invalid Mode is automatically finished and the DTCs may be stored.
- Add brake fluid carefully and check that the reservoir level remains between the MIN and MAX lines.
- Do not stand the fluid can on the reservoir inlet. Doing so will cause brake fluid to overflow.

(a) Remove 4 wheels.

(b) Select ECB (Electronically Controlled Brake system) Invalid Mode.

(1) Perform the procedure listed below in 1 minute.

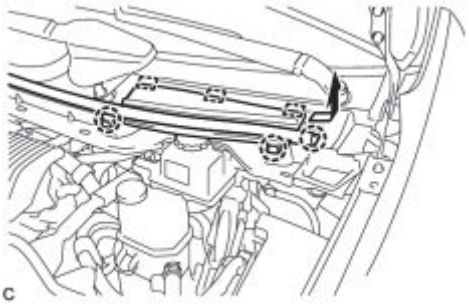
1. Turn the power switch on (IG) with park (P) selected and parking brake applied.
2. Select N and then depress the brake pedal more than 8 times in 5 seconds.
3. Push the P position switch and then depress the brake pedal more than 8 times in 5 seconds.
4. Select N and then depress the brake pedal more than 8 times in 5 seconds.
5. Push the P position switch.

(2) Check that the brake warning light / yellow is blinking.

Brake Warning Light / Yellow

N

(c) Remove the center cowl top ventilator cover.

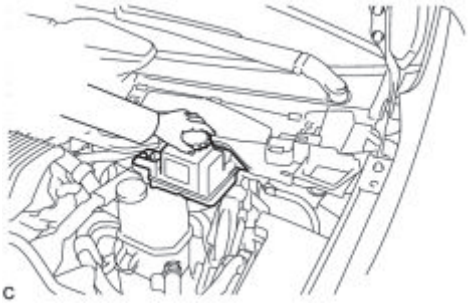


C

(1) Slide the hood to cowl top seal and disengage the claw.

(2) Disengage the 2 claws and 3 guides, and remove the center cowl top ventilator cover.

(d) Replace the brake fluid.



C

(1) Remove the brake master cylinder reservoir filler cap assembly.

(2) Add brake fluid into the reservoir between MAX and MIN level on the brake fluid reservoir.

Brake fluid:

SAE J1703 or FMVSS No. 116 DOT3

(3) Connect a vinyl tube to the bleeder plug of the front disc brake cylinder assembly RH.

(4) Depress the brake pedal several times, and then loosen the bleeder plug with the pedal depressed.*1

(5) When fluid stops coming out, tighten the bleeder plug, and then release the brake pedal.*2

(6) Repeat *1 and *2 until all the air in the brake fluid is completely bled out and a new brake fluid comes out.

(7) Tighten the bleeder plug completely.

Torque: **8.3 N·m (85 kgf·cm, 73in·lbf)**

(8) Replace the brake fluid from the front disc brake cylinder assembly LH using the same procedure as for RH.

(9) Connect a vinyl tube to the bleeder plug of the rear disc brake cylinder assembly LH.

(10) Loosen the bleeder plug while depressing and holding the brake pedal, and replace the brake fluid while the brake booster pump assembly and solenoid running.*3

NOTICE:

- Be sure to keep the brake pedal depressed.
- Do not depress the brake pedal to operate the brake booster pump more than 100 seconds. When performing this procedure continuously, release the brake pedal to stop the brake booster pump operating and depress the brake pedal again.

(11) Tighten the bleeder plug, then release the brake pedal.*4

(12) Repeat steps *3 and *4 until all the air in the brake fluid is completely bled out and a new brake fluid comes out.

(13) Tighten the bleeder plug completely.

Torque: **11 N·m (112 kgf·cm, 8ft·lbf)**

(14) Replace the brake fluid from the rear disc brake cylinder assembly RH using the same procedure as for LH.

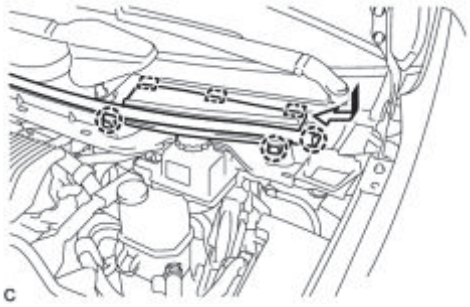
(15) Turn the power switch off.

(e) Inspect for brake fluid leaks.

(f) Adjust the brake fluid level in the reservoir INFO.

(g) Install the brake master cylinder reservoir filler cap.

(h) Install the center cowl top ventilator cover.



(1) Engage the 2 claws and 3 guides to install the center cowl top ventilator cover.

(2) Slide the hood to cowl top seal to engage the claw.

(i) Install the 4 wheels.

Torque: **103 N·m (1050 kgf·cm, 76ft·lbf)**