BRAKE FLUID (w/ ABS) BLEEDING

BR12E-03

HINT:

- If any work is done on the brake system or if air in the brake lines is suspected, bleed the air from the system.
- When bleeding, keep the amount of the fluid within the line of reservoir between Min. and Max.

NOTICE:

- Do not let brake fluid remain on painted surfaces.
 Wash it off immediately.
- With the reservoir cap removed, when depressing the brake pedal, the fluid will spray.
- 1. FILL RESERVOIR WITH BRAKE FLUID
 Fluid: SAE J1703 or FMVSS NO. 116 DOT3
- 2. In case of using hand-held tester:
 BLEED HYDRAULIC BRAKE BOOSTER

HINT:

If the hydraulic brake booster has been disassembled, disconnect the brake line from the hydraulic brake booster or if the reservoir becomes empty, bleed the hydraulic brake booster.

(a) Turn the ignition switch OFF, depress the brake pedal more than 40 times.

HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

(b) Turn the ignition switch ON, check that the pump stops after approx. 30 to 40 sec.

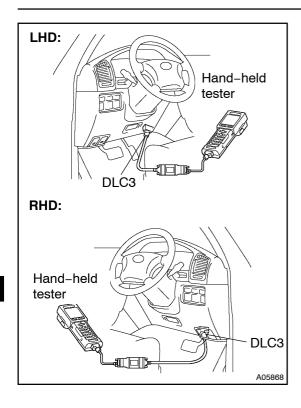
NOTICE:

When the pump does not stop, repeat step (a) and (b) again.

- (c) With the ignition switch remained ON, depress the brake pedal more than 20 times.
- (d) Observe the procedure in step 4 and bleed the right and left front brake caliper.
- (e) Holding the brake pedal depressed, bleed the right and left rear brake caliper.

HINT:

It is not necessary to depress the pedal continuously, as brake fluid flows out by first depressing.



- (f) Connect hand-held tester.
 - (1) Turn the ignition switch OFF, connect the hand-held tester to DLC3.
 - (2) Turn the ignition switch ON and select "AIR BLEED-ING" on the hand-held tester.

HINT:

Please refer to the hand-held tester operator's manual for further details.

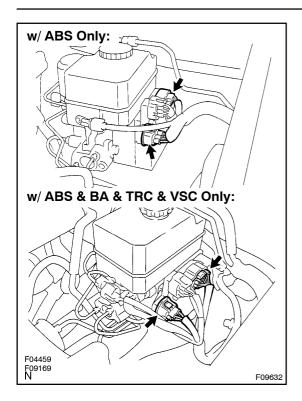
- (g) Bleed right front brake line.
 - (1) Select "FR LINE" on the hand-held tester.
 - (2) With "FR LINE" turned ON with the hand-held tester, depress the brake pedal and hold it to bleed the right front brake caliper.
 - (3) Repeat step (2) until there are no more air bubbles in the fluid.
- (h) Bleed left front brake line.
 - (1) Select "FL LINE" on the hand-held tester.
 - (2) With "FL LINE" turned ON with the hand-held tester, depress the brake pedal and hold it to bleed the left front brake caliper.
 - (3) Repeat step (2) until there are no more air bubbles in the fluid.
- (i) w/ ABS & TRC & VSC only:

Bleed rear brake line.

- (1) Select "RR LINE" on the hand-held tester.
- (2) With "RR LINE" turned ON with the hand-held tester, bleed the left and right rear brake caliper.
- (j) Disconnect the hand-held tester from DLC3.
- (k) Clear[the[DTC[See[page[DI-4)]]
- 3. In case of using ABS actuator checker (SST):
 BLEED HYDRAULIC BRAKE BOOSTER

HINT:

If the hydraulic brake booster has been disassembled, disconnect the brake line from the hydraulic brake booster or if the reservoir becomes empty, bleed the hydraulic brake booster.



 (a) Disconnect the 2 connectors from the hydraulic brake booster.

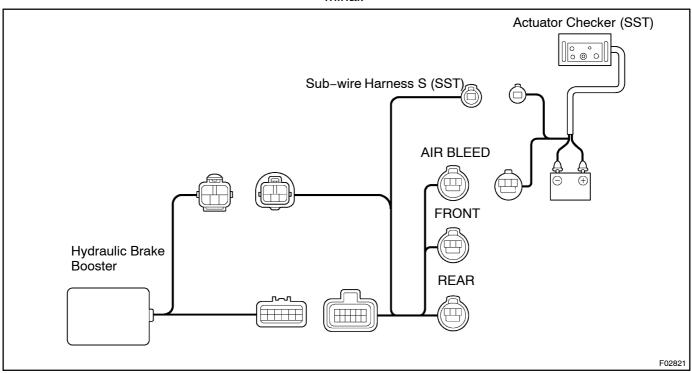
(b) Connect the actuator checker (SST) to the hydraulic brake booster side wire harness via the sub-wire harness (SST), as shown in the chart below.

SST 09990-00150, 09990-00480

HINT:

Connect the connector with the label of "AIR BLEED" attached to the connector of actuator checker.

(c) Connect the red cable of the checker to the battery positive (+) terminal and the black cable to the negative (-) terminal.



(d) Turn the ignition switch OFF, depress the brake pedal more than 40 times.

HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

(e) Turn the ignition switch ON, check that the pump stops after 30 to 40 sec.

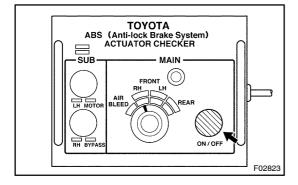
NOTICE:

When the pump does not stop, repeat step (d) and (e) again.

- (f) With the ignition switch remained ON, depress the brake pedal more than 20 times.
- (g) Observe the procedure in step 4 and bleed the right and left front wheel caliper.
- (h) Holding the brake pedal depressed, bleed the right and left rear brake caliper.

HINT:

It is not necessary to depress the pedal continuously, as brake fluid flows out by first depressing.

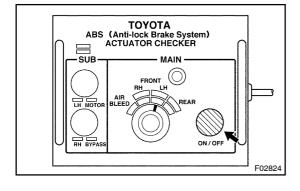


- (i) Bleed right front brake line.
 - (1) Turn the selector switch of the actuator checker to the "FRONT RH" position.
 - (2) Push and hold in MAIN push switch, depress the brake pedal and hold it to bleed the right front brake caliper.

NOTICE:

Do not keep the MAIN switch pushed in for more than 10 sec. When operating it continuously, set the interval of more than 20 sec.

(3) Repeat step (2) until there are no more air bubbles in the fluid.

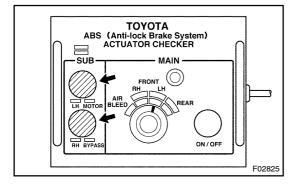


- (j) Bleed left front brake line.
 - (1) Turn the selector switch of the actuator checker to the "FRONT LH" position.
 - (2) Push and hold in the MAIN push switch, depress the brake pedal and hold it to bleed the left front brake caliper.

NOTICE:

Do not keep the MAIN switch pushed in for more than 10 sec. When operating it continuously, set the interval of more than 20 sec.

(3) Repeat[step[[2]]until[]here[are[]ho[]nore[air[]bubbles in[]he[]luid.



(k) \square w/ \square ABS \square & \square TRC \square & \square VSC \square pnly:

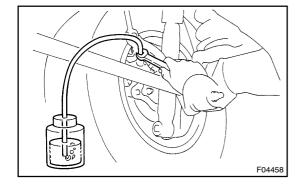
Bleed ight igear brake line.

(1) Push and hold nthe 'SUBLH' and 'SUBRH' switches, bleed the tight ear brake caliper.

NOTICE:

Do[hot[keep[the[MAIN[switch[pushed[]n[for[more[than 10 sec.[When[operating[]t[continuously,[set[]the[]interval[]of more[than[]20[sec.

- (2) Repeat[step[1]] until[there[are[no[more[air[bubbles in[the]]]]] Repeat[step[1]] Repeat[ste
- (I) Observe the procedure in step (k) and bleed eft rear brake in e.
- (m) Disconnect[theactuator@hecker[SST)andsub-wireharness[SST)from heactuator.
 - SST[] 09990-00150,[09990-00480
- (n) Connect the Connectors to the hydraulic rake booster.
- (o) Clear[the[DTC[See[page[DI-4)]]



4. BLEED BRAKE LINE

- (a) Connect the viny tube to the characters.
- (b) Depress the brake pedal several times, then osen the bleeder plug with the pedal held down.
- (c) At the point when full stops coming out the bleeder plug, then release the brake pedal.
- (d) Repeat(b) and(c) untilal the air in the fluid has been bled out
- (e) Repeat[the[above[procedure[to[bleed[the[brake[ine[for each[wheel.

Torque: 11[N·m[[110]kgf·cm,[8[ft·lbf]

- 5. CHECK[FLUID[LEVEL[]N[RESERVOIR
- (a) With the gnition switch OFF, depress the brake pedal more than 40 times.

HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

(b) Remove the reservoir cap. Add brake fluid up to the "MAX" line.

Fluid: SAE J1703 or FMVSS NO. 116 DOT3