2007 Toyota Prius L4-1.5L (1NZ-FXE) (Hybrid) Copyright © 2008, ALLDATA 9.90 Page 1

Brake Bleeding: Service and Repair BRAKE FLUID BLEEDING

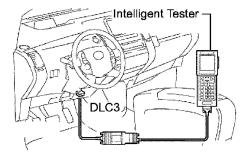
CAUTION: Bleeding without the intelligent tester may result in the air not being completely bled. As this can result in an accident, be sure to use the intelligent tester for air bleeding.

NOTICE:

- ^ Move the shift lever to the P position and apply the parking brake before bleeding air.
- ^ Add brake fluid carefully so that it remains between the MIN and MAX lines of the reservoir while bleeding air.
- ^ Brake fluid may overflow when bleeding the brake actuator hose. Do not place the fluid can on the reservoir inlet.
- ^ If the pump motor operates while there is air remaining inside the brake actuator hose, the air will enter the actuator, resulting in difficulty of air bleeding. Remove the No. 1 and No. 2 motor relays until instructed to reinstall them in order to prevent air from coming into the brake actuator hose.
- ^ The actuator pump motor and master pressure cut-off solenoid can operate through a supplemental power source even if the power switch is OFF.
- ^ A buzzer may sound due to the accumulator pressure decline during air bleeding. However, continue bleeding.
- ^ DTCs for problems such as No. 1 and No. 2 motor relay malfunctions and pressure sensor malfunctions are stored after bleeding. Clear the DTCs when instructed during or after bleeding.
- A Bleed the brake actuator hose if air enters as a result of the decline of reservoir fluid.

1. PREPARE FOR BLEEDING

a. Move the shift lever to the P position and apply the parking brake.



- b. Connect the intelligent tester to the DLC3 with the power switch OFF as shown in the illustration.
- c. Turn the power switch ON (IG) and turn on the intelligent tester.

NOTICE: Do not start the engine.

d. Select "DIAGNOSTIC MENU" "ABS/VSC" "AIR BLEEDING" on the intelligent tester.

AIR BLEEDING

- 1. Usual
- 2. Actuator
- 3. Master Cylinder
- or Stroke Simulator

Select the work No.

1 2 3

PRESS [ENTER]

- e. Select "AIR BLEEDING".
 - 1. Select "Usual" if the front/rear brakes were removed, installed or disassembled.

HINT: Go to "BLEED AIR FROM FRONT AND REAR BRAKE SYSTEMS" if "Usual" is selected.

2. Select "Actuator" if the actuator is removed, installed or replaced.

NOTICE: Be sure to release the pressure out of the actuator before removing.

HINT: Go to "BLEED AIR FROM BRAKE ACTUATOR" if "Actuator" is selected.

3. Select "Master Cylinder or Stroke Simulator" if the brake master cylinder or the brake stroke simulator was removed, installed or replaced.

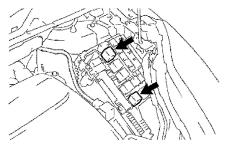
HINT: Go to "BLEED AIR FROM MASTER CYLINDER/STROKE SIMULATOR" if "Master Cylinder or Stroke Simulator" is selected.

FAILED

This command can not be available.

PRESS [ENTER]

f. Return to "MENU" and bleed the air again if the display appears during air bleeding.



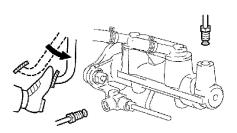
- g. Remove and install the relays as shown in the illustration if instructed to remove and install No. 1 and No. 2 motor relays by the intelligent tester.
- 2. FILL RESERVOIR WITH BRAKE FLUID

NOTICE: Wash brake fluid off immediately if it adheres to any painted surface.

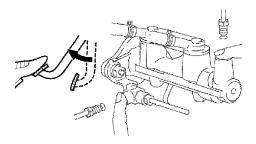
- Add brake fluid into the reservoir.
 Fluid: SAE J1703 or FMVSS No. 116 DOT3
- 3. BLEED AIR FROM MASTER CYLINDER

HINT: If the master cylinder has been disassembled or if the reservoir becomes empty, bleed the air out of the master cylinder.

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- a. Disconnect the brake lines from the master cylinder. SST 09023-00100
- b. Slowly depress and hold the brake pedal.



- c. Cover the outer holes with your fingers, and release the brake pedal.
- d. Repeat the above steps 3 or 4 times.
- e. Connect the brake lines to the master cylinder. SST 09023-00100

Torque: 15 Nm (155 kgf-cm, 11 ft. lbs.)

4. BLEED AIR FROM FRONT AND REAR BRAKE SYSTEMS

NOTICE: Wash brake fluid off immediately if it adheres to any painted surface.

HINT: Bleed the air out of the front and rear brake systems in accordance with the display.

OPERATION

- 1. Turn the IG OFF.
- Remove the motor relays No. 1 andNo. 2.
- 3. Turn the IG ON.

PRESS [ENTER]

a. Remove the No. 1 and No. 2 motor relays.

NOTICE:

- ^ Remove the No. 1 and No. 2 motor relays before bleeding the air out of the front brake system.
- ^ Be sure to turn the power switch OFF before removing the No. 1 and No. 2 motor relays.

Perform the usual air bleeding for FR and FL wheels.

PRESS [ENTER]

- b. Bleed the air out of the FR/FL wheels if the display appears.
 - 1. Remove the bleeder plug cap.
 - 2. Connect the vinyl tube to the bleeder plug.
 - 3. Depress the brake pedal several times, then loosen the bleeder plug with the brake pedal depressed.
 - 4. When the fluid stops coming out, tighten the bleeder plug, and then release the brake pedal. Torque: 8.4 Nm (86 kgf-cm, 74 inch lbs.)
 - 5. Repeat the above steps until all the air in the fluid is completely bled out.
 - 6. Install the bleeder plug cap.
 - 7. Repeat the previous procedures to bleed the air out of the brake line for each wheel.

OPERATION

- 1. Turn the IG OFF.
- Install the motor relays No. 1 and No. 2.
- 3. Turn the IG ON.

PRESS [ENTER]

c. Install the No. 1 and No. 2 motor relays.

NOTICE:

- ^ Install the No. 1 and No. 2 motor relays before bleeding the air out of the rear brake system.
- ^ Be sure to turn the power switch OFF before installing the No. 1 and No. 2 motor relays.

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OPERATION

Hold the brake pedal depressed and loosen the bleeder plug of RL wheel until all the air in the fluid is completely bled out.

PRESS [ENTER]

- d. Bleed the air out of the RL wheel if the display appears.
 - 1. Remove the bleeder plug cap of RL wheel.
 - 2. Connect the vinyl tube to the bleeder plug of RL wheel.
 - 3. Depress the brake pedal and loosen the bleeder plug of RL wheel until all the air in the fluid is completely bled out.

NOTICE: Do not pump the brake pedal. Hold the brake pedal depressed when bleeding the air out of the rear brake system.

HINT: The actuator motor relay starts operation and oil pressure is applied to the rear brake system if the brake pedal is depressed, which allows air bleeding through the bleeder plug.

4. Tighten the bleeder plug if the air is completely bled out.

Torque: 8.4 Nm (86 kgf-cm, 74 inch lbs.)

OPERATION

Hold the brake
pedal depressed and
loosen the bleeder
plug of RR wheel
until all the air
in the fluid is
completely bled
out.

PRESS [ENTER]

- e. Bleed the air out of the RR wheel if the display appears.
 - 1. Remove the bleeder plug cap of RR wheel.
 - 2. Connect the vinyl tube to the bleeder plug of RR wheel.
 - 3. Depress the brake pedal and loosen the bleeder plug of RR wheel until all the air in the fluid is completely bled out.

NOTICE: Do not pump the brake pedal. Hold the brake pedal depressed when bleeding the air out of the rear brake system.

HINT: The actuator motor relay starts operation and oil pressure is applied to the rear brake system if the brake pedal is depressed, which allows air bleeding through the bleeder plug.

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Air Bleeding is COMPLETE.

PRESS [ENTER]

f. The air bleeding of the front and rear brake system finishes if the display appears.

5. BLEED AIR FROM BRAKE ACTUATOR

NOTICE: Wash brake fluid off immediately if it adheres to any painted surface.

HINT: Bleed the air out of the brake actuator in accordance with the display.

INFORMATION

Do you wish to refresh the high pressure line?

This operation will take 20 seconds.

PRESS [ENTER]

a. Refresh the high pressure line.

NOTICE: Be sure to perform this procedure before replacement, removal or installation of the actuator.

HINT:

- ^ Decrease the internal pressure by performing this procedure.
- ^ Count down from 20 seconds.

	1. Turn the IG OFF.
	2. Remove the motor
	relays No. 1 and
	No. 2.
	3. Turn the IG ON.
	4. Confirm ABS pump
	motor runs and
	stops.
	PRESS [ENTER]
b.	Follow the procedures shown on the display.
	NOTICE: Be sure to remove the No. 1 and No. 2 motor relays before removing the actuator for replacement, removal or installation
	OPERATION
	Perform the usual
	air bleeding for
	FR and FL wheels.
	PRESS [ENTER]
c.	Follow the procedures shown on the display.

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INFORMATION

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Do you wish to bleed the air out of the drain line?

This command activates solenoids (SLRFR, SLRFL, SLRRR and SLRRL).

PRESS [ENTER]

d. Bleed the air out of the drain line.

NOTICE: Be sure to perform this procedure if air remains in the actuator hose.

HINT: Fluid inside the actuator hose returns to the reservoir tank when performing this procedure.

OPERATION

- Depress the brake pedal 30 times in 30 seconds.
- 2. Turn the IG OFF.
- Install the motor relays No. 1 and No. 2.
- 4. Turn the IG ON.

PRESS [ENTER]

e. Depress the brake pedal 30 times within 30 seconds while the solenoid is operating.

HINT: The solenoid stops operation automatically after approximately 30 seconds.

f. Install the No. 1 and No. 2 motor relays.

NOTICE:

- ^ Install the No. 1 and No. 2 motor relays before bleeding the air out of the rear brake system.
- ^ Be sure to turn the power switch OFF before installing the No. 1 and No. 2 motor relays.

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OPERATION

Hold the brake pedal depressed and loosen the bleeder plug of RL wheel until all the air in the fluid is completely bled out.

PRESS [ENTER]

g. Bleed the air out of the rear brake RL wheel.

OPERATION

Hold the brake pedal depressed and loosen the bleeder plug of RR wheel until all the air in the fluid is completely bled out.

PRESS [ENTER]

h. Bleed the air out of the rear brake RR wheel.

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	OPERATION			
	Loosen the bleeder			
	plug of FL wheel.			

PRESS [ENTER]

i. Loosen the bleeder plug of FL wheel.

INFORMATION

Do you wish to bleed the air out of the power supply line?

This command activates solenoids (SMC2 and SLAFL).

PRESS [ENTER]

j. Bleed the air out of the power supply line.

HINT: Air can be bled out of the high pressure line inside the actuator when performing this procedure.

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Tighten the bleeder plug of FL wheel.

PRESS [ENTER]

k. Tighten the bleeder plug of FL wheel. Torque: **8.4 Nm (86 kgf-cm, 74 inch lbs.)**

INFORMATION (*/2)

Do you wish to bleed the air out of the stroke simulator line?

This command activates solenoids (SMC2 and SCSS).

PRESS [ENTER]

- 1. Bleed the air out of the stroke simulator line.
 - ^ Bleed the air out of the stroke simulator twice.
 - The number of times air is bled is displayed as 1/2 (first) and 2/2 (second).

(*/2)	
Depress the brake	
pedal 20 times in	
20 seconds.	
PRESS [ENTER]	
FRESS [ENTER]	
1. Depress the brake pedal 20 times in 20 seconds .	
1. Depress the stake pedal 20 times in 20 seconds.	
HINT: Depress the brake pedal 20 times at 1 second intervals, holding the pedal down on the last depression.	
111 (10 2 option the crime pount 20 miles at 1 cooling more pount do his on the most depression	
OPERATION	
OPERATION	
(*/2)	
Perform the usual	
air bleeding for	
FL wheel.	

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OPERATION

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PRESS [ENTER]

2. Perform the usual air bleeding for the FL wheel.

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HINT:

^ Loosen the bleeder plug of the FL wheel and bleed the air with the brake pedal depressed.

INFORMATION

(*/5)

Do you wish to refresh the high pressure line?

This operation will take 20 seconds.

PRESS [ENTER]

m. Refresh the high pressure line.

NOTICE: Keep the fluid inside the reservoir above the "LOW" level by replenishing fluid.

HINT:

- ^ Accumulator pressure is released and accumulated repeatedly, which circulates the fluid inside the accumulator when performing this procedure.
- ^ The high pressure line is refreshed 5 times. The number of times refreshed is displayed as 1/5 (first), 2/5 (second), etc.
- ^ Count down from **20 seconds**.

OPERATION

(*/5)

 Turn the IG OFF, and ON again.

Confirm the ABS motor pump runs and stops.

PRESS [ENTER]

n. Turn the power switch OFF. Turn the power switch ON (IG) and check if the ABS motor pump runs and stops.

HINT: The pump motor rotates and the accumulator is pressurized every time the power switch is turned from OFF to ON (IG).

- o. Return to "MENU".
- 6. BLEED AIR FROM MASTER CYLINDER/STROKE SIMULATOR

NOTICE: Wash brake fluid off immediately if it adheres to any painted surface.

HINT: Bleed the air out of the master cylinder/stroke simulator in accordance with the display.

1. Turn the IG OFF.

Remove the motor relays No. 1 andNo. 2.

3. Turn the IG ON.

PRESS [ENTER]

a. Remove the No. 1 and No. 2 motor relays.

NOTICE:

- ^ Remove the No. 1 and No. 2 motor relays before bleeding the air out of the front brake system.
- ^ Be sure to turn the power switch OFF before removing the No. 1 and No. 2 motor relays.

OPERATION

Perform the usual air bleeding for FR and FL wheels.

PRESS [ENTER]

b. Bleed the air out of the FR/FL wheels in accordance with the display.

HINT:

^ Air can be completely bled out of the master cylinder by performing this procedure.

- 1. Turn the IG OFF.
- Install the motor relays No. 1 and No. 2.
- 3. Turn the IG ON.

PRESS [ENTER]

c. Install the No. 1 and No. 2 motor relays.

NOTICE:

- ^ Install the No. 1 and No. 2 motor relays before bleeding the air out of the stroke simulator.
- ^ Be sure to turn the power switch OFF before installing the No. 1 and No. 2 motor relays.

INFORMATION

(*/2)

Do you wish to bleed the air out of the stroke simulator line?

This command activates solenoids (SMC2 and SCSS).

PRESS [ENTER]

d. Bleed the air out of the stroke simulator line.

HINT: Bleed the air out of the stroke simulator twice. The number of times air is bled is displayed as 1/2 (first) and 2/2 (second).

(*/2)
Depress the brake
pedal 20 times in
20 seconds.
PRESS [ENTER]
1. Depress the brake pedal 20 times in 20 seconds .
HINT: Depress the brake pedal 20 times at 1 second intervals, holding the brake pedal down on the last depression.
OPERATION
(*/2)
Perform the usual
air bleeding for
FL wheel.
PRESS [ENTER]

^ Loosen the bleeder plug of the FL wheel and bleed the air with the brake pedal depressed.

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OPERATION

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2. Perform the usual air bleeding for the FL wheel.

HINT:

Air Bleeding is
COMPLETE.

PRESS [ENTER]

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- e. The air bleeding of the master cylinder/stroke simulator finishes if the display appears.
- 7. CHECK AND CLEAR DTC

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