

JTDHCB22U257024491

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Vehicle Diagnostic Report

2005 Prius 1NZ-FXE
JTDKB22U257024491

Toyota of Melbourne

Printed By: Default User(1)

11/17/2010 11:12:47 AM

Freeze Frame Data Report C1256(Current)(1 of 1)

Parameter	Value	Unit
Detailed Freeze DTC	143	
Stop Light SW	ON	
VSC/TRAC OFF SW	OFF	
Shift Lever Position	Fail	
Operated System	no Sys	
Number of IG ON	31	
Vehicle Speed	0	MPH
Master Cylinder Sensor1	0.47	V
Pedal Stroke Sensor1	1.38	V
Throttle Sensor	0	deg
Master Cylinder Grade	0	MPa/s
Vehicle Speed Grade	0.00	G
Buzzer	ON	
Reservoir Warning SW	OFF	
Parking Brake SW	OFF	
FR Wheel Cylinder	0.47	V
FL Wheel Cylinder	0.47	V
RR Wheel Cylinder	0.47	V
RL Wheel Cylinder	0.50	V
Accumulator Sensor	2.82	V
Master Cylinder Sensor2	0.45	V
Pedal Stroke Sensor2	3.64	V
MTT	1.90	V
G1 Voltage	0.00	V
G2 Voltage	0.00	V
3S1	10.29	V
3S2	10.45	V
/M1	10.29	V
/M2	10.29	V
-B1	11.13	V
-B2	11.21	V
FR Target Oil Pressure	0.0	MPa
FL Target Oil Pressure	0.0	MPa
RR Target Oil Pressure	0.0	MPa
RL Target Oil Pressure	0.0	MPa
SLAFR Solenoid Current	0.00	A
SLAFL Solenoid Current	0.00	A
SLARR Solenoid Current	0.00	A
SLARL Solenoid Current	0.00	A
SLRFR Solenoid Current	0.00	A
SLRFL Solenoid Current	0.00	A
SLRRR Solenoid Current	0.34	A
SLRRL Solenoid Current	0.63	A
FR Wheel Speed	0	MPH
FL Wheel Speed	0	MPH
RR Wheel Speed	0	MPH
RL Wheel Speed	0	MPH
Capacitor Mode	OFF	
ECB Solenoid (SCSS)	ON	
ECB Solenoid (SMC1)	ON	
ECB Solenoid (SMC2)	ON	
Motor Relay1	ON	
Motor Relay2	OFF	
ECB Main Relay1	ON	
ECB Main Relay2	ON	

DTC	C1256/57	ACCUMULATOR LOW PRESSURE
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CIRCUIT DESCRIPTION

The accumulator pressure sensor is built into the actuator and detects the accumulator pressure.

The skid control ECU turns on the Brake Control warning lamp and sounds the skid control buzzer if it senses a decrease in the accumulator pressure.

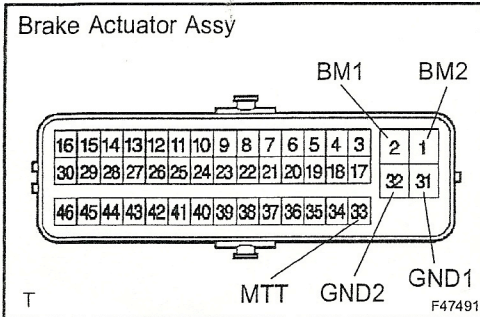
DTC No.	INF Code	DTC Detecting Condition	Trouble Area
C1256/57	141	<ul style="list-style-type: none"> Braking operation is input when accumulator pressure is less than 12.45 MPa and vehicle speed is input (detected value changes if accumulator pressure is low after system start). Accumulator pressure is less than 14.62 MPa for 120 sec. (changes according to power source voltage) after system start (stores the DTC after the conditions are met, and drives buzzer). 	<ul style="list-style-type: none"> Brake actuator assy (accumulator pressure, accumulator pressure sensor, pump motor)
C1256/57	143	<ul style="list-style-type: none"> Any of the wheel cylinder pressure sensor value is lower than the target value for at least 0.5 sec. when accumulator pressure is less than 14.62 MPa and vehicle speed is input. Accumulator pressure changes little when accumulator pressure is less than 14.62 MPa for at least 1 sec. without braking (pump motor is operating). Accumulator pressure is less than 14.62 MPa for at least 0.5 sec. when motor relay is malfunctioning. 	<ul style="list-style-type: none"> Brake actuator assy (accumulator pressure, accumulator pressure sensor, pump motor)

INSPECTION PROCEDURE

HINT:

DTCs may be output if the accumulator pressure drops due to frequent braking (this is not a malfunction).

1 INSPECT BRAKE ACTUATOR ASSY



- Disconnect the brake actuator assy connector.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
1 (BM2) - 31 (GND1)	Below 10 Ω
2 (BM1) - 31 (GND1)	Below 10 Ω
1 (BM2) - 2 (BM1)	Below 1 Ω
31 (GND1) - 32 (GND2)	Below 1 Ω
1 (BM2) - 33 (MTT)	450 to 550 Ω
2 (BM1) - 33 (MTT)	450 to 550 Ω

NG → REPLACE BRAKE ACTUATOR ASSY

OK

2 READ VALUE OF HAND-HELD TESTER

- Connect the hand-held tester to the DLC3.
- Turn the power switch ON (READY).
- Select the DATA LIST mode on the hand-held tester.

Item	Measurement Item / Range (Display)	Normal condition
ACC PRESS SENS 1	Accumulator pressure sensor 1 / min.: 0 V, max.: 5 V	Specified value: 3.2 to 4.0 V

- Depress the brake pedal 4 or 5 times to operate the pump motor, and check the output value on the hand-held tester with the motor stopped (not braking).

OK:

ACC pressure sensor's output voltage does not drop.

NG → REPLACE BRAKE ACTUATOR ASSY
(SEE PAGE 32-54)

OK

REPLACE SKID CONTROL ECU ASSY (SEE PAGE 32-68)

NOTICE:

When replacing the skid control ECU assy, perform initialization of linear solenoid valve and calibration (see page 05-962).



Diagnostic Report

Vehicle Information

Vehicle: 2005 Prius
Repair Order: 150320

VIN: JTDKB22U257024491

Mileage: 78048

Health Check Summary

Checkpoints	Status	Comments
Powertrain Systems	All systems OK	
Chassis Systems	All systems OK	
Electrical Systems	All systems OK	
Network Systems	All systems OK	

Performed: 11/18/10, 6:32 AM (PST)

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Technician Signature

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