

2005 Prius
1NZ-FXE

JTDKB22U267024491

2005_Prius_1NZ
File Notes
Health Check
Data 1-11/

Health Check Results

| System | Monitor Status | DTC | Curr | Pend | Hist | Perm | SB | Calibration | Update |
|----------------------|----------------|-------|------|------|------|------|-----|--------------|--------|
| Engine and ECT | Com | | | | | | | 34706200 | Yes |
| ABS/VSC/TRAC | - | C1256 | X | | | | No | - | |
| Air Conditioner | - | B1421 | X | | | | No | - | |
| | | B1200 | | | X | | Yes | - | |
| Gateway | - | B1207 | | | X | | Yes | - | |
| | | B1271 | | | X | | Yes | - | |
| | | | | | | | | 899834712301 | No |
| | | | | | | | | 899814707001 | No |
| Hybrid Control | - | | | | | | | 899814707002 | No |
| | | | | | | | | 899814711001 | No |
| | | | | | | | | 899814707004 | No |
| HV Battery | - | | | | | | | 898904708000 | No |
| Cruise Control | - | | | | | | | - | |
| EMPS | - | | | | | | | - | |
| Immobiliser | - | | | | | | | - | |
| Body | - | | | | | | | - | |
| Transmission Control | - | | | | | | | - | |
| Power Source Control | - | | | | | | | - | |
| Smart Key | - | | | | | | | - | |
| SRS Airbag | - | | | | | | | - | |

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11/17/2010 11:11:03 AM Campaign Available:NO

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 |
| S1 | 10.29 | V |
| S2 | 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 |
|------------|-----------------|---------------------------------|

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.

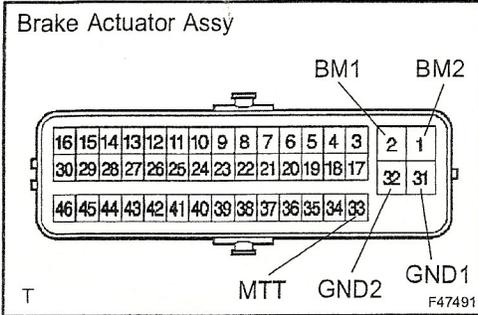
| DTC No. | INF Code | DTC Detecting Condition | Trouble Area |
|----------|----------|---|---|
| C1256/57 | 141 | <ul style="list-style-type: none"> Braking operation is input when accumulator pressure is less than 12.45 MPa and vehicle speed is input (detected value changes if accumulator pressure 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



- (a) Disconnect the brake actuator assy connector.
- (b) 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

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the power switch ON (READY).
- (c) 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 |

3.39V ✓

- (d) 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: JTDKKB22U257024491

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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 24 NORTH HARBOR CITY BLVD
 MELBOURNE, FL 32935
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 Technician Signature

 Quality Inspector Signature