FREEZE FRAME DATA

1. FREEZE FRAME DATA

Whenever a DTC is detected or the ABS operates, the skid control ECU stores the current vehicle (sensor) state as freeze frame data.

The skid control ECU stores the number of times (maximum: 31) the ignition switch has been turned from off to the ON position since the last time the ABS was activated.

HINT:

- However, if the vehicle was stopped or at low speed (4.3 mph (7 km/h) or less), or if a DTC is detected, the skid control ECU will not count the number since then.
- Freeze frame data at the time the ABS operates:
  The skid control ECU stores and updates data whenever the ABS system operates.
  When the ECU stores data at the time a DTC is detected, the data stored when the ABS operated is erased.
- Freeze frame data at the time a DTC is detected:
  When the skid control ECU stores data at the time a DTC is detected, no updates will be performed until the data is cleared.

(a) Connect the intelligent tester II to the DLC3.

(b) Turn the ignition switch to the ON position.

(c) From the display on the tester, select the ”FREEZE FRAME DATA”.

Intelligent Tester II Display	Measurement Item	Reference Value
Vehicle Speed	Vehicle speed reading	Min.: 0 km/h, Max.: 326.4 km/h
Stop Light SW	Stop light switch signal	Stop light switch ON: ON, OFF: OFF
Number of IG ON	Number of operations of ignition switch ON after memorizing freeze frame data	0 to 31
Master Cylinder Sensor 1	Master cylinder pressure sensor reading	Brake pedal released: 0.3 to 0.9 V Brake pedal depressed: 0.8 to 4.5 V
Master Cylinder Grade	Master cylinder pressure sensor change	Min.: –30 Mpa/s, Max.: 225 Mpa/s
Operated System	System status	ABS activated: ABS VSC/TRC activated: VSC/TRC BA activated: BA No system activated: NO SYS
Yaw Rate Sensor	Yaw rate sensor reading	Min.: –128 deg/s, Max.: 127 deg/s
Steering Angle Sensor	Steering angle sensor reading	Left turn: Increase Right turn: Drop
Right And Left G	Right and left G	Min.: –1.869 G, Max.: 1.869 G
Back And Forth G	Back and forth G	Min.: –1.869 G, Max.: 1.869 G
Shift Lever Position	Shift lever position	FAIL P,N R D/M 4 3 2 L
Freeze DTC	Freeze DTC (Trouble code)	0 to 65535
Buzzer	Skid control buzzer signal	Skid control buzzer ON: ON, OFF: OFF
Reservoir Warning SW	Brake fluid level warning switch signal	Brake fluid level warning switch ON: ON, OFF: OFF
Parking Brake SW	Parking brake switch signal	Parking brake switch ON: ON, OFF: OFF
FR Wheel Direction	Front right wheel direction signal	Front right wheel direction FORWARD: Forward, BACK: Back
FL Wheel Direction	Front left wheel direction signal	Front left wheel direction FORWARD: Forward, BACK: Back

Intelligent Tester II Display	Measurement Item	Reference Value
RR Wheel Direction	Rear right wheel direction signal	Rear right wheel direction FORWARD: Forward, BACK: Back
RL Wheel Direction	Rear left wheel direction signal	Rear left wheel direction FORWARD: Forward, BACK: Back
Throttle Sensor	Throttle position sensor reading	Accelerator pedal released: approx. 0 % Accelerator pedal depressed: approx. 100 %