

FREEZE FRAME DATA

HINT:

- 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 ABS was activated. 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 after that.
- Freeze frame data at the time the ABS operates: The skid control ECU stores and updates the 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 to the DLC3.
 - (b) Turn the ignition switch to the ON position.
 - (c) Turn the tester ON.
 - (d) From the display on the tester, select the FREEZE FRAME DATA.

Intelligent Tester	Measurement Item	Reference Value
TRouble CODE	Freeze DTC	min.: 0, max.: 65535
STOP LIGHT SW	Stop light switch signal	Stop light switch ON: ON, OFF: OFF
VSC/TRC OFF SW	VSC OFF switch signal	VSC OFF SW ON: ON, OFF: OFF
SHIFT POSITION	Shift lever position	FAIL P,N R D 4 3 2 L
SYSTEM	System status	ABS activated: ABS VSC/TRAC activated: VSC/TRAC BA activated: BA Fail safe mode activated: FAIL SF No system activated: NO SYS
# IG ON	Number of operations turning ignition switch to ON after strong freeze frame data	0 to 31
VEHICLE SPD	Wheel speed sensor reading	Speed indicated on speedometer
STEERING ANG	Steering sensor reading	Left turn: Increase Right turn: Drop (Deceleration)
YAW RATE	Yaw rate angle sensor reading	-128 to 127
MAS CYL PRESS	Master cylinder pressure sensor reading	Brake pedal release: 0.3 to 0.9 V Brake pedal depress: 0.8 to 4.5 V
MAS PRESS GRADE	Master cylinder pressure sensor change	-30 to 225 MPa/s
G (RIGHT & LEFT)	Right and left G (Yaw Rate)	-1.869 to 1.869
G (BACK & FORTH)	Back and forth G (Deceleration)	-1.869 to 1.869
WHEEL DIR FR	Front right wheel direction	Wheel direction BACK: BACK Wheel direction FORWARD: FORWARD

Intelligent Tester	Measurement Item	Reference Value
WHEEL DIR FL	Front left wheel direction	Wheel direction BACK: BACK Wheel direction FORWARD: FORWARD
WHEEL DIR RR	Rear right wheel direction	Wheel direction BACK: BACK Wheel direction FORWARD: FORWARD
WHEEL DIR RL	Rear left wheel direction	Wheel direction BACK: BACK Wheel direction FORWARD: FORWARD
BUZZER	VSC buzzer signal	VSC buzzer ON: ON, OFF: OFF
RESERVOIR SW	Reservoir level warning switch signal	Reservoir level warning Switch ON: ON, OFF: OFF
PKB SW	Parking brake switch signal	Parking brake Switch ON: ON, OFF: OFF