

FREEZE FRAME DATA

1. 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 the 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 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 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 display	Measurement Item	Reference Value
VEHICLE SPD	Wheel speed sensor reading	min.: 0 km/h max.: 326 km/h
STOP LIGHT SW	Stop light switch signal	Stop light switch ON: ON, OFF: OFF
# IG ON	Number of operations of ignition switch ON after memorizing freeze frame data	0 to 31
MAS CYL PRESS	Master cylinder pressure sensor reading	Brake pedal released: 0.3 to 0.9 V Brake pedal depressed: 0.8 to 4.5 V
MASS PRESS GRADE	Master cylinder pressure sensor change	-30 to 255 MPa/s
SYSTEM	System status	ABS activated: ABS VSC / TRC activated: VSC / TRC BA activated: BA Fail safe mode activated: FAIL SF No system activated: NO SYS
YAW RATE	Yaw rate sensor reading	-128 to 127
STEERING ANG	Steering angle sensor reading	Left turn: Increase Right turn: Drop
THROTTLE	Throttle position sensor reading	Release accelerator pedal: Approx. 0 deg. Depress accelerator pedal: Approx. 125 deg.
G (RIGHT & LEFT)	Right and left G	-1.869 to 1.869
G (BACK & FORTH)	Back and forth G	-1.869 to 1.869
VSC / TRC OFF SW	VSC OFF switch signal	TRAC OFF SW ON: ON TRAC OFF SW OFF: OFF

Intelligent tester display	Measurement Item	Reference Value
SHIFT POSITION	Shift lever position	FAIL P,N R D 4 3 2 L
TROUBLE CODE	Freeze DTC	min.: 0 max.: 255
# CODES	Number of trouble codes	min.: 0 max.: 255