DATA LIST/ACTIVE TEST

1. DATA LIST

(a) While the intelligent tester II is connected to the DLC3 with the ignition switch turned to the ON position, the ABS, TRC and VSC data list can be displayed. Follow the prompts on the tester screen to access the "DATA LIST".

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
H/B Motor Relay	HB motor relay/ON or OFF	ON: During pump motor operation OFF: No pump motor operation	–
Solenoid Relay	Solenoid relay/ON or OFF	ON: Solenoid relay ON OFF: Solenoid relay OFF	–
Air Bleeding Support	Air bleed availability/SUPPORT or NOT SUP	SUPPORT: Support ON NOT SUP: Support OFF	–
Main Idle SW	Main idle switch/ON or OFF	ON: Accelerator pedal released OFF: Accelerator pedal depressed	–
Stop Light SW	Stop light switch/ON or OFF	ON: Brake pedal depressed OFF: Brake pedal released	–
Parking Brake SW	Parking brake switch/ON or OFF	ON: Parking brake applied OFF: Parking brake released	–
FR Wheel ABS Control	ABS operation (FR)/BEFORE or OPERATE	BEFORE: No ABS operation (FR) OPERATE: During ABS operation (FR)	–
FL Wheel ABS Control	ABS operation (FL)/BEFORE or OPERATE	BEFORE: No ABS operation (FL) OPERATE: During ABS operation (FL)	–
RR Wheel ABS Control	ABS operation (RR)/BEFORE or OPERATE	BEFORE: No ABS operation (RR) OPERATE: During ABS operation (RR)	–
RL Wheel ABS Control	ABS operation (RL)/BEFORE or OPERATE	BEFORE: No ABS operation (RL) OPERATE: During ABS operation (RL)	–
FR Wheel Speed	Wheel speed sensor (FR) reading /min.: 0 mph (0 km/h), max.: 202 mph (326 km/h)	Actual wheel speed	Similar speed as indicated on speedometer
FL Wheel Speed	Wheel speed sensor (FL) reading/ min.: 0 mph (0 km/h), max.: 202 mph (326 km/h)	Actual wheel speed	Similar speed as indicated on speedometer
RR Wheel Speed	Wheel speed sensor (RR) reading /min.: 0 mph (0 km/h), max.: 202 mph (326 km/h)	Actual wheel speed	Similar speed as indicated on speedometer
RL Wheel Speed	Wheel speed sensor (RL) reading /min.: 0 mph (0 km/h), max.: 202 mph (326 km/h)	Actual wheel speed	Similar speed as indicated on speedometer
Deceleration Sensor 1	Deceleration sensor 1 reading/ min.: –1.869 G, max.: 1.869 G	Approximately 0 ± 0.13 G while stationary	Reading changes when vehicle is bounced
Deceleration Sensor 2	Deceleration sensor 2 reading/ min.: –1.869 G, max.: 1.869 G	Approximately 0 ± 0.13 G while stationary	Reading changes when vehicle is bounced
ECU IG Power Voltage	ECU IG power supply voltage/ TOO LOW/NORMAL/TOO HIGH	TOO LOW: 9.5 V or less NORMAL: 9.5 or 14.0 V TOO HIGH: 14.0 V or more	–
Solenoid (SFRR)	ABS solenoid (SFRR)/ON or OFF	ON: Operates	–
Solenoid (SFRH)	ABS solenoid (SFRH)/ON or OFF	ON: Operates	–
Solenoid (SFLR)	ABS solenoid (SFLR)/ON or OFF	ON: Operates	–
Solenoid (SFLH)	ABS solenoid (SFLH)/ON or OFF	ON: Operates	–
Solenoid (SRRR)	ABS solenoid (SRRR)/ON or OFF	ON: Operates	–
Solenoid (SRRH)	ABS solenoid (SRRH)/ON or OFF	ON: Operates	–

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
Solenoid (SRLR)	ABS solenoid (SRLR)/ON or OFF	ON: Operates	–
Solenoid (SRLH)	ABS solenoid (SRLH)/ON or OFF	ON: Operates	–
Solenoid (SRCF)	TRC solenoid (SMCF)/ON or OFF	–	–
Solenoid (SRCR)	TRC solenoid (SREA)/ON or OFF	–	–
Solenoid (SRMF)	TRC solenoid (SREC)/ON or OFF	–	–
Solenoid (SRMR)	TRC solenoid (STR)/ON or OFF	–	–
Engine Speed	Engine speed/ min.: 0 rpm, max.: 6000 rpm	Actual engine speed	–
Vehicle Speed	Vehicle speed reading/min.: 0 mph (0 km/h), max.: 202 mph (326 km/h)	Actual vehicle speed	–
Yaw Rate Sensor	Yaw rate sensor/ min.: –128 deg/s, max.: 127 deg/s	Min.: –128 deg/s Max.: 128 deg/s	–
Zero Yaw Rate Sensor	Memorized zero value/ min.: –128 deg/s, max.: 127 deg/s	Min.: –128 deg/s Max.: 128 deg/s	–
Steering Angle Sensor	Steering angle sensor/ min.: –1152 deg/s, max.: 1150.875 deg/s	Left turn: Increase Right turn: Decrease	–
Master Cylinder Sensor 1	Master cylinder pressure sensor 1 reading/min.: 0 V, max.: 5 V	When brake pedal is released: 0.3 to 0.9 V When stop light is turned on: 0.3 to 0.9 V	Reading increases when brake pedal is depressed
Test Mode	Test mode operation/NORMAL or TEST	NORMAL: Normal mode TEST: During test mode	–
Number of DTC	Number of DTC recorded/ min.: 0, max.: 255	–	–
ECU Code 1	ECU code	1 or 0	3–door: 1 5–door: 0
ECU Code 2	ECU code	1 or 0	3–door: 1 5–door: 0
ECU Code 3	ECU code	1 or 0	3–door: 0 5–door: 1
ECU Code 4	ECU code	1 or 0	3–door: 0 5–door: 0
FR Wheel Direction	Wheel direction (FR)/FORWARD or BACK	FORWARD: Forward BACK: Back	–
FL Wheel Direction	Wheel direction (FL)/FORWARD or BACK	FORWARD: Forward BACK: Back	–
RR Wheel Direction	Wheel direction (RR)/FORWARD or BACK	FORWARD: Forward BACK: Back	–
RL Wheel Direction	Wheel direction (RL)/FORWARD or BACK	FORWARD: Forward BACK: Back	–
Reservoir Warning SW	Brake fluid level warning switch/ ON or OFF	ON: Switch ON OFF: Switch OFF	–
Accumulator Sensor	Accumulator pressure sensor/ min.: 0 V max.: 5 V	3.58 to 5 V	If the value is constant regardless of pump operation, accumulator pressure sensor malfunction is suspected
FR Speed Open	Speed sensor open detection (FR)/OPN DET or NORMAL	OPN DET: Momentary interruption NORMAL: Normal	–
FL Speed Open	Speed sensor open detection (FL)/OPN DET or NORMAL	OPN DET: Momentary interruption NORMAL: Normal	–
RR Speed Open	Speed sensor open detection (RR)/OPN DET or NORMAL	OPN DET: Momentary interruption NORMAL: Normal	–

Item	Measurement Item/Range (Display)	Normal Condition	Diagnostic Note
RL Speed Open	Speed sensor open detection (RL)/OPN DET or NORMAL	OPN DET: Momentary interruption NORMAL: Normal	–
Accelerator %	The difference of a present accelerator/min.: 0 %, max.: 128 %	–	–
Real Output Torque	Real output torque/min.: –1024 Nm, max.: 1016 Nm	–	–

2. ACTIVE TEST

HINT:

Performing the ACTIVE TEST using the intelligent tester ll allows the relay, actuator, etc. to operate without removing any parts. Performing the ACTIVE TEST as the first step of troubleshooting is one of the methods to shorten labor time.

It is possible to display the DATA LIST during the ACTIVE TEST.

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

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

(c) According to the display on the tester, perform the ”ACTIVE TEST”.

HINT:

The ignition switch must be turned to the ON position to proceed to the ACTIVE TEST using the intelligent tester II.

Item	Vehicle Condition/Test Details	Diagnostic Note
ABS Solenoid (SFRR)	Turns ABS solenoid (SFRR) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SFRH)	Turns ABS solenoid (SFRH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SFLR)	Turns ABS solenoid (SFLR) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SFLH)	Turns ABS solenoid (SFLH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SRRR)	Turns ABS solenoid (SRRR) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SRRH)	Turns ABS solenoid (SRRH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SRLR)	Turns ABS solenoid (SRLR) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SRLH)	Turns ABS solenoid (SRLH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
TRC Solenoid (SRCF)	Turns TRC solenoid (SMCF) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
TRC Solenoid (SRCR)	Turns TRC solenoid (SREA) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
TRC Solenoid (SRMF)	Turns TRC solenoid (SREC) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
TRC Solenoid (SRMR)	Turns TRC solenoid (STR) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SFRR & SFRH)	Turns ABS solenoid (SFRR & SFRH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SFLR & SFLH)	Turns ABS solenoid (SFLR & SFLH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SRRR & SRRH)	Turns ABS solenoid (SRRR & SRRH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Solenoid (SRLR & SRLH)	Turns ABS solenoid (SRLR & SRLH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard

Item	Vehicle Condition/Test Details	Diagnostic Note
ABS Solenoid (SFRH & SFLH)	Turns ABS solenoid (SFRH & SFLH) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
TRC Solenoid (SRCF & SRCR)	Turns TRC solenoid (SMCF & SREA) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
TRC solenoid (SRMF & SRMR)	Turns TRC solenoid (SREC & STR) ON/OFF	Operation sound of solenoid (clicking sound) can be heard
ABS Motor Relay	Turns H/B motor relay ON/OFF	Operation sound of motor can be heard
ABS Warning Light	Turns ABS warning light ON/OFF	Observe combination meter
VSC Warning Light	Turns VSC TRC warning light ON/OFF	Observe combination meter
VSC/TRC OFF Indicator Light	Turns VSC OFF indicator light ON/OFF	Observe combination meter
Slip Indicator Light	Turns slip indicator light ON/OFF	Observe combination meter
Brake Warning Light	Turns brake warning light ON/OFF	Observe combination meter
VSC H/B Warning Buzzer	Turns skid control buzzer ON/OFF	Buzzer can be heard
Stop Light Relay	Turns stop light operation relay ON/OFF	Observe rear combination lamp (Does not come on for 5 sec. or more)