

DATA LIST/ACTIVE TEST

HINT:

With the intelligent tester II connected to the DLC3 and the ignition switch in 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
ABS Motor Relay	ABS motor relay / ON or OFF	ON : Motor relay ON	-
Solenoid Relay	Solenoid relay / ON or OFF	ON : Solenoid relay ON	-
VSC/TRC OFF SW	TRC control switch / ON or OFF	ON : TRC control switch ON	-
Main Idle SW	Main idle switch / ON or OFF	ON : Accelerator pedal released OFF : Accelerator pedal depressed	-
Stop Light SW	Stop lamp 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	-
Stepping Force SW	Brake load sensing switch / ON or OFF	ON : Depressed brake pedal OFF : Released brake pedal	-
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 km/h (0 MPH, max.: 326 km/h (202 MPH)	Actual wheel speed	Similar speed as indicated on speedometer
FL Wheel Speed	Wheel speed sensor (FL) reading / min.: 0 km/h (0 MPH, max.: 326 km/h (202 MPH)	Actual wheel speed	Similar speed as indicated on speedometer
RR Wheel Speed	Wheel speed sensor (RR) reading / min.: 0 km/h (0 MPH, max.: 326 km/h (202 MPH)	Actual wheel speed	Similar speed as indicated on speedometer

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
RL Wheel Speed	Wheel speed sensor (RL) reading / min.: 0 km/h (0 MPH, max.: 326 km/h (202 MPH)	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 $0 \pm 0.13G$ at still condition	Reading changes when vehicle is bounced
Deceleration Sensor 2	Deceleration sensor 2 reading / min.: -1.869 G, max.: 1.869 G	Approximately $0 \pm 0.13G$ at still condition	Reading changes when vehicle is bounced
ECU IG Power Voltage	ECU power supply voltage / UNDER / NORMAL / OVER	OVER: 14 V NORMAL: 9.5 V to 14 V UNDER: Below 9.5 V	-
Solenoid (SFRR)	ABS solenoid (SFRR) / ON or OFF	ON : Operate	-
Solenoid (SFRH)	ABS solenoid (SFRH) / ON or OFF	ON : Operate	-
Solenoid (SFLR)	ABS solenoid (SFLR) / ON or OFF	ON : Operate	-
Solenoid (SFLH)	ABS solenoid (SFLH) / ON or OFF	ON : Operate	-
Solenoid (SRRR)	ABS solenoid (SRRR (SRR)) / ON or OFF	ON : Operate	-
Solenoid (SRRH)	ABS solenoid (SRRH (SRH)) / ON or OFF	ON : Operate	-
Solenoid (SRLR)	ABS solenoid (SRLR) / ON or OFF	ON : Operate	-
Solenoid (SRLH)	ABS solenoid (SRLH) / ON or OFF	ON : Operate	-
Solenoid (SMF)	TRC solenoid (SMF) / ON or OFF	ON : Operate	-
Solenoid (SMR)	TRC solenoid (SMR) / ON or OFF	ON : Operate	-
Throttle Sensor	Throttle position sensor/ Min.: 0 deg, Max.: 125 deg	Release accelerator pedal: Approx. 0 deg. Depress accelerator pedal: Approx. 90 deg.	-
Engine Speed	Engine Speed/ Min.: 0 rpm, Max.: 6000 rpm	Actual engine speed	-
Vehicle Speed	Maximum wheel speed sensor reading / min.: 0 km/h (0 MPH), max.: 326 km/h (202 MPH)	Actual vehicle speed	Speed indicated on speedometer
Yaw Rate Sensor	Yaw rate sensor/ Min.: -128 deg/s, Max.: 128 deg/s	Min.: -128 deg/s Max.: 128 deg/s	-
Zero Yaw Rate Sensor	Memorized zero value/ Min.: -128 deg/s, Max.: 128 deg/s	Min.: -128 deg/s Max.: 128 deg/s	-
Steering Angle Sensor	Steering sensor/ Min.: -1152 deg, Max.: 1150.875 deg	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	Reading increases when brake pedal is depressed

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
Test Mode	Test mode / NORMAL or TEST	NORMAL : Normal mode TEST : During test mode	-
FR Speed Open	FR speed sensor open detection / OPEN or NORMAL	OPEN : Momentary interruption	-
FL Speed Open	FL speed sensor open detection / OPEN or NORMAL	OPEN : Momentary interruption	-
RR Speed Open	RR speed sensor open detection / OPEN or NORMAL	OPEN : Momentary interruption	-
RL Speed Open	RL speed sensor open detection / OPEN or NORMAL	OPEN : Momentary interruption	-
Yaw Rate Open	Yaw rate sensor open detection	OPEN : Momentary interruption	-
Deceleration Open	G sensor open detection	OPEN : Momentary interruption	-
Steering Open	Steering sensor open detection	OPEN : Momentary interruption	-
Master Cylinder Open	Master Cylinder pressure sensor 1 open detection	OPEN : Momentary interruption	-
EFI Open	EFI communication open detection	OPEN : Momentary interruption	-

1. ACTIVE TEST

HINT:

Performing the ACTIVE TEST using the intelligent tester II allows the relay and 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.

- Connect the intelligent tester II to the DLC3.
- Turn the ignition switch to the ON position.
- According to the display on the tester, perform the "ACTIVE TEST".

HINT:

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 of solenoid (clicking sound) can be heard
ABS Solenoid (SFRH)	Turns ABS solenoid (SFRH) ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SFLR)	Turns ABS solenoid (SFLR) ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SFLH)	Turns ABS solenoid (SFLH) ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SRRR)	Turns ABS solenoid (SRRR) ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SRRH)	Turns ABS solenoid (SRRH) ON / OFF	Operation of solenoid (clicking sound) can be heard

Item	Vehicle Condition / Test Details	Diagnostic Note
ABS Solenoid (SRLR)	Turns ABS solenoid (SRLR) ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SRLH)	Turns ABS solenoid (SRLH) ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SFRR & SFRH)	Turns ABS solenoid SFRR & SFRH ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SFLR & SFLH)	Turns ABS solenoid SFLR & SFLH ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SRH & SRR)	Turns ABS solenoid SRH & SRR ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SRLR & SRLH)	Turns ABS solenoid SRLR & SRLH ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Solenoid (SFRH & SFLH)	Turns ABS solenoid SFRH & SFLH ON / OFF	Operation of solenoid (clicking sound) can be heard
TRC Solenoid (SMF)	Turns TRC solenoid SMF ON / OFF	Operation of solenoid (clicking sound) can be heard
TRC Solenoid (SMR)	Turns TRC solenoid SMR ON / OFF	Operation of solenoid (clicking sound) can be heard
Solenoid Relay	Turns ABS solenoid relay ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Motor Relay	Turns ABS motor relay ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS Warning Light	Turns ABS warning light ON / OFF	Observe combination meter
VSC Warning Light	Turns VSC warning light ON / OFF	Observe combination meter
VSC/TRC OFF Light	Turns VSC / TRC OFF indicator 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 VSC / BRAKE warning buzzer ON / OFF	Buzzer can be heard
Stop Light Relay	Turns stop light relay ON/OFF	Relay sound can be heard