

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

With the intelligent tester connected to the DLC3 and the ignition switch in the ON position, the ABS, TRAC 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
HB MOT RELAY	HB motor relay / ON or OFF	ON : Motor relay ON OFF : Motor relay OFF	-
ABS MOT RELAY	ABS motor relay / ON or OFF	ON : Motor relay ON OFF : Motor relay OFF	-
SOL RELAY	Solenoid relay / ON or OFF	ON : Solenoid relay ON OFF : Solenoid relay OFF	-
VSC/TRAC OFF SW	TRAC control switch / ON or OFF	ON : TRAC control switch ON	-
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	-
PKB SW	Parking brake switch / ON or OFF	ON : Parking brake applied OFF : Parking brake released	-
RESERVOIR SW	Reservoir level warning switch / ON or OFF	ON : Switch ON OFF : Switch OFF	-
ABS OPERT FR	ABS operation (FR) / BEFORE or OPERATE	BEFORE : No ABS operation (FR) OPERATE : During ABS operation (FR)	-
ABS OPERT FL	ABS operation (FL) / BEFORE or OPERATE	BEFORE : No ABS operation (FL) OPERATE : During ABS operation (FL)	-
ABS OPERT RR	ABS operation (RR) / BEFORE or OPERATE	BEFORE : No ABS operation (RR) OPERATE : During ABS operation (RR)	-
ABS OPERT RL	ABS operation (RL) / BEFORE or OPERATE	BEFORE : No ABS operation (RL) OPERATE : During ABS operation (RL)	-
WHEEL SPD FR	Wheel speed sensor (FR) reading / min.: 0 MPH (0 km/h), max.: 202 MPH (326 km/h)	Actual wheel speed	Similar speed to that indicated on speedometer
WHEEL SPD FL	Wheel speed sensor (FL) reading / min.: 0 MPH (0 km/h), max.: 202 MPH (326 km/h)	Actual wheel speed	Similar speed to that indicated on speedometer
WHEEL SPD RR	Wheel speed sensor (RR) reading / min.: 0 MPH (0 km/h), max.: 202 MPH (326 km/h)	Actual wheel speed	Similar speed to that indicated on speedometer
WHEEL SPD RL	Wheel speed sensor (RL) reading / min.: 0 MPH (0 km/h), max.: 202 MPH (326 km/h)	Actual wheel speed	Similar speed to that indicated on speedometer
DECELERAT SEN	Deceleration sensor 1 reading / min.: -1.869 G, max.: 1.869 G	Approximately 0 +- 0.13G is still condition	Reading changes when vehicle bounced
DECELERAT SEN2	Deceleration sensor 2 reading / min.: -1.869 G, max.: 1.869 G	Approximately 0 +- 0.13G is still condition	Reading changes when vehicle bounced
IG VOLTAGE	ECU power supply voltage / TOO LOW / NORMAL / TOO HIGH	TOO HIGH: 14 V or more NORMAL: 9.5 V or 14V TOO LOW: Below 9.5 V	-

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
SFRR	ABS solenoid (SFRR) / ON or OFF	ON: Operates OFF: Does not operate	-
SFRH	ABS solenoid (SFRH) / ON or OFF	ON: Operates OFF: Does not operate	-
SFLR	ABS solenoid (SFLR) / ON or OFF	ON: Operates OFF: Does not operate	-
SFLH	ABS solenoid (SFLH) / ON or OFF	ON: Operates OFF: Does not operate	-
SRRR (SRR)	ABS solenoid (SRRR [SRR]) / ON or OFF	ON: Operates OFF: Does not operate	-
SRRH (SRH)	ABS solenoid (SRRH [SRH]) / ON or OFF	ON: Operates OFF: Does not operate	-
SRLR	ABS solenoid (SRLR) / ON or OFF	ON: Operates OFF: Does not operate	-
SRLH	ABS solenoid (SRLH) / ON or OFF	ON: Operates OFF: Does not operate	-
SRCF (SA1)	TRAC solenoid (SRCF [SMCF]) / ON or OFF	ON: Operates OFF: Does not operate	-
SRCR (SA2)	TRAC solenoid (SRCR [SREA]) / ON or OFF	ON: Operates OFF: Does not operate	-
SRMF (SMCF, SA3)	TRAC solenoid (SRMF [SREC]) / ON or OFF	ON: Operates OFF: Does not operate	-
SRMR (SMCR, STR)	TRAC solenoid (SRMR [SMCR, STR]) / ON or OFF	ON: Operates OFF: Does not operate	-
ENGINE SPD	Engine Speed/ Min.: 0 rpm, Max.: 6000 rpm	Actual engine speed	-
VEHICLE SPD	Maximum wheel speed sensor reading / min.: 0 MPH (0 km/h), max.: 202 MPH (326 km/h)	Actual engine speed	Speed indicated on speedometer
YAW RATE	Yaw rate sensor/ Min.: -128 deg/s, Max.: 127 deg/s	Min: -128 deg/s Max: 127 deg/s	-
YAW ZERO VALUE	Memorized zero value/ Min.: -128 deg/s, Max.: 127 deg/s	Min: -128 deg/s Max: 127 deg/s	-
STEERING ANG	Steering sensor/ Min.: -1152 deg, Max.: 1150.875 deg	Left turn: Increase Right turn: Decrease	-
MAS CYL PRS 1	Master cylinder pressure sensor 1 reading / min.: 0V, max.: 5V	When brake pedal is released : 0.3 V to 0.9 V	Reading increases when brake pedal depressed
ACC PRESS SENS	Accumulator pressure sensor reading / min.: 0V, max.: 5V	min.: 3V max.: 5V	If value constant regardless of pump operation, accumulator pressure sensor malfunction suspected.
WHEEL DIR FR	Front right wheel direction	wheel direction BACK: BACK, FORWARD: FORWARD	-
WHEEL DIR FL	Front left wheel direction	wheel direction BACK: BACK, FORWARD: FORWARD	-
WHEEL DIR RR	Rear right wheel direction	wheel direction BACK: BACK, FORWARD: FORWARD	-
WHEEL DIR RL	Rear left wheel direction	wheel direction BACK: BACK, FORWARD: FORWARD	-
SPD SEN FR	FR speed sensor open detection / OPEN or NORMAL	OPEN: momentary interruption	-
SPD SEN FL	FL speed sensor open detection / OPEN or NORMAL	OPEN: momentary interruption	-
SPD SEN RR	RR speed sensor open detection / OPEN or NORMAL	OPEN: momentary interruption	-
SPD SEN RL	RL speed sensor open detection / OPEN or NORMAL	OPEN: momentary interruption	-

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
ACCELERATOR %	Different % of present accelerator	min.: 0 max.: 128	-
TORQUE	Real output torque	min.: -1024 max.: 1016	-
TEST MODE	Test mode / Normal or TEST	NORMAL: Normal mode TEST: During test mode	-
MAS CYL PRESS 1	Master cylinder pressure sensor 1 reading / min.: 0V, max.: 5V	When brake pedal released: 0.3 to 0.9V	Reading increases when brake pedal depressed
#CODES	Number of DTC recorded / min.: 0, max.: 255	min.: 0 max.: 255	-

2. ACTIVE TEST

HINT:

Performing the ACTIVE TEST using the intelligent tester allows relays and actuators to be operated without removing any parts. Performing the ACTIVE TEST as the first step of troubleshooting is one method of shortening diagnostic time.

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

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Turn the tester ON.
- (d) 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.

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Item	Vehicle Condition / Test Details	Diagnostic Note
SFRR	Turns ABS solenoid (SFRR) ON / OFF	Operation of solenoid (clicking sound) can be heard
SFRH	Turns ABS solenoid (SFRH) ON / OFF	Operation of solenoid (clicking sound) can be heard
SFLR	Turns ABS solenoid (SFLR) ON / OFF	Operation of solenoid (clicking sound) can be heard
SFLH	Turns ABS solenoid (SFLH) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRRR	Turns ABS solenoid (SrRR) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRRH	Turns ABS solenoid (SRRH) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRLR	Turns ABS solenoid (SRLR) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRLH	Turns ABS solenoid (SFLH) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRCF (SA1)	Turns TRAC solenoid SRCF (SMCF) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRCR (SA2)	Turns TRAC solenoid SRCR (SREA) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRMF (SMCF, SA3)	Turns TRAC solenoid SRCR (SREA) ON / OFF	Operation of solenoid (clicking sound) can be heard
SRMR (SMCR, STR)	Turns TRAC solenoid SRMF (SMEC) ON / OFF	Operation of solenoid (clicking sound) can be heard

Item	Vehicle Condition / Test Details	Diagnostic Note
SFLR & SFLH	Turns ABS solenoid SFLR & SFLH ON / OFF	Operation of solenoid (clicking sound) can be heard
SRH & SRR	Turns ABS solenoid SRH & SRR ON / OFF	Operation of solenoid (clicking sound) can be heard
SRLR & SRLH	Turns ABS solenoid SRLR & SRLH ON / OFF	Operation of solenoid (clicking sound) can be heard
SFRH & SFLH	Turns ABS solenoid SFRH & SFLH ON / OFF	Operation of solenoid (clicking sound) can be heard
SRCF & SRCR	Turns ABS solenoid SRCF & SRCR ON / OFF	Operation of solenoid (clicking sound) can be heard
SRMF & SRMR	Turns ABS solenoid SRMF & SRMR ON / OFF	Operation of solenoid (clicking sound) can be heard
SOL RELAY	Turns ABS solenoid relay ON / OFF	Operation of solenoid (clicking sound) can be heard
ABS MOT RELAY	Turns ABS motor relay ON / OFF	Operation of motor can be heard
TRAC MOT RELAY	Turns TRAC motor relay ON / OFF	Operation of motor can be heard
ABS WARN LIGHT	Turns ABS warning light ON / OFF	Operation of motor can be heard
VSC WARN LIGHT	Turns VSC TRAC warning light ON / OFF	Operation of motor can be heard
VSC / TRC OFF IND	Turns VSC OFF indicator ON / OFF	Operation of motor can be heard
SLIP INDI LIGHT	Turn SLIP indicator light ON / OFF	Operation of motor can be heard
BRAKE WRN LIGHT	Turns BRAKE warning light ON / OFF	Operation of motor can be heard
VSC / BR WARN BUZ	Turns VSC / BRAKE warning buzzer ON / OFF	Buzzer can be heard
H/B MOT RELAY	Turns H/B motor relay ON / OFF	Operation of motor can be heard
STP LIGHT RELAY	Turns stop light relay ON / OFF	Observe stop light