

DATA LIST/ACTIVE TEST

1. DATA LIST

- Connect the intelligent tester II to the DLC3.
- Turn the ignition switch to the ON position.
- Following the display on the intelligent tester II, read the "DATA LIST".

| Item | Measurement Item / Range (Display) | Normal Condition | Diagnostic Note |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Vehicle Speed | Vehicle speed reading / min.: 0 km/h (0 mph), max.: 255 km/h (158 mph) | Actual vehicle speed | Similar speed as indicate on speed meter |
| IG Power Source Voltage | ECU power supply voltage / min.: 0 V, max.: 25.5 V | Actual ECU power supply voltage: 10 to 14 V | – |
| Steering Angle | Steering angle sensor reading / min.: –49152 deg, max. 49152 deg | Actual steering angle Left turn: reading increases Right turn: reading decreases | Zero point is set at the point when battery is connected |
| Engine Speed | Cam position sensor reading / min.: 0 rpm, max.: 25,500 rpm | Actual engine speed | Similar speed as indicate on speed meter |
| Stop Light Switch | Stop light switch / ON or OFF | ON: Brake pedal depressed OFF: Brake pedal released | – |
| Door Switch | Door switch / ON or OFF | ON: Open each door OFF: Close all doors | – |
| Damping Force Switch 1 | Damping force switch 1 / ON or OFF | The same as absorber control switch position | Operate the height control switch |
| TS Terminal | TS terminal / ON or OFF | ON: During test mode OFF: Normal mode | – |
| TC Terminal | TC terminal / ON or OFF | ON: DTC recorded OFF: No DTC recorded | – |
| TD Terminal | TD terminal / ON or OFF | ON: Height control is not operating OFF: Height control is operating | – |
| Height Control Switch | Height control switch / ON or OFF | ON: Height control switch while pressing "HIGH" OFF: Height control switch while pressing "NORM" | – |
| G (Back & Forth) Sensor | G sensor reading / min.: –1.8669 G, max.: 1.8816 G | 0 ± 0.1 G at still condition | Reading changes when vehicle is bounced |
| G (Up & Down) Sensor FR | G (up & down) front right acceleration sensor reading / min.: –1045267 mm/s ² , max.: 1045299 mm/s ² | 0 ± 0.1 G at still condition | Reading changes when vehicle (FR) is bounced |
| G (Up & Down) Sensor FL | G (up & down) front left acceleration sensor reading / min.: –1045267 mm/s ² , max.: 1045299 mm/s ² | 0 ± 0.1 G at still condition | Reading changes when vehicle (FL) is bounced |
| G (Up & Down) Sensor Rear | G (up & down) rear acceleration sensor reading / min.: –1045267 mm/s ² , max.: 1045299 mm/s ² | 0 ± 0.1 G at still condition | Reading changes when vehicle (rear) is bounced |
| FR Height Control Sensor | Right front height control sensor reading / min.: –3276.7 mm (–129.004 in.), max.: 3276.8 (129.007 in.) | Min.: 10 mm (0.39 in.) Max.: 30 mm (1.81 in.) | – |
| FL Height Control Sensor | Left front height control sensor reading / min.: –3276.7 mm (–129.004 in.), max.: 3276.8 (129.007 in.) | Min.: 10 mm (0.39 in.) Max.: 30 mm (1.81 in.) | – |

| Item | Measurement Item / Range (Display) | Normal Condition | Diagnostic Note |
|--------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------|
| RR Height Control Sensor | Right rear height control sensor reading / min.: -3276.7 mm (-129.004 in.), max.: 3276.8 mm (129.007 in.) | Min.: 10 mm (0.39 in.) Max.: 30 mm (1.81 in.) | - |
| RL Height Control Sensor | Left rear height control sensor reading / min.: -3276.7 mm (-129.004 in.), max.: 3276.8 mm (129.007 in.) | Min.: 10 mm (0.39 in.) Max.: 30 mm (1.81 in.) | - |
| Warp Sensor | Height control sensor detecting road condition / ON or OFF | ON: Detects that the road condition is warp. OFF: - | - |
| Bumpy Road Sensor | Height control sensor detecting road condition / ON or OFF | ON: Detects that the road condition is bumpy. OFF: - | - |
| Damper Step FR | Damper step (Front Right) / min.: 0 step, max.: 255 step | Min.: 0 step, max.: 16 step | - |
| Damper Step FL | Damper step (Front Left) / min.: 0 step, max.: 255 step | Min.: 0 step, max.: 16 step | - |
| Damper Step RR | Damper step (Rear Right) / min.: 0 step, max.: 255 step | Min.: 0 step, max.: 16 step | - |
| Damper Step RL | Damper step (Rear Left) / min.: 0 step, max.: 255 step | Min.: 0 step, max.: 16 step | - |
| Max Damper Step FR | Damper step (Front Right) / min.: 0 step, max.: 255 step | 16 step | - |
| Max Damper Step FL | Damper step (Front Left) / min.: 0 step, max.: 255 step | 16 step | - |
| Max Damper Step RR | Damper step (Rear Right) / min.: 0 step, max.: 255 step | 16 step | - |
| Max Damper Step RL | Damper step (Rear Left) / min.: 0 step, max.: 255 step | 16 step | - |
| Wheel Speed FR | Wheel speed (Front) sensor reading / min.: 0 km/h (0 MPH), max.: 255 km/h (158 MPH) | Actual vehicle speed | Similar speed as indicate on speed meter |

2. ACTIVE TEST

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

| Item | Vehicle Condition / Test Details | Diagnostic Note |
|--------------------|--------------------------------------------------------------------|-----------------------------------------------------|
| Damper Step FR | Changes damper step (Front Right) / min.: 1 step, max.: 16 step | Shock absorber hardens as damper step increases |
| Damper Step FL | Changes damper step (Front Left) / min.: 1 step, max.: 16 step | Shock absorber hardens as damper step increases |
| Damper Step RR | Changes damper step (Rear Right) / min.: 1 step, max.: 16 step | Shock absorber hardens as damper step increases |
| Damper Step RL | Changes damper step (Rear Left) / min.: 1 step, max.: 16 step | Shock absorber hardens as damper step increases |
| FR Wheel Up & Down | Right front vehicle height / UP or DOWN | - |
| FL Wheel Up & Down | Left front vehicle height / UP or DOWN | - |
| RR Wheel Up & Down | Right rear vehicle height / UP or DOWN | - |
| RL Wheel Up & Down | Left rear vehicle height / UP or DOWN | - |
| FR Solenoid | Turn OFF right front solenoid valve one second after turning it ON | Operation of solenoid (clicking sound) can be heard |
| FL Solenoid | Turn OFF left front solenoid valve one second after turning it ON | Operation of solenoid (clicking sound) can be heard |

DIAGNOSTICS – AIR SUSPENSION SYSTEM

| Item | Vehicle Condition / Test Details | Diagnostic Note |
|-------------|-------------------------------------------------------------------|-----------------------------------------------------|
| RR Solenoid | Turn OFF right rear solenoid valve one second after turning it ON | Operation of solenoid (clicking sound) can be heard |
| RL Solenoid | Turn OFF left rear solenoid valve one second after turning it ON | Operation of solenoid (clicking sound) can be heard |
| Motor Relay | AIR SUS relay / ON or OFF | Operation of solenoid (clicking sound) can be heard |