2012 - Mazda6 - Brakes

ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]

On-Board Diagnostic (OBD) Test Description

- The OBD test inspects the integrity and function of the DSC and outputs the results when requested by the specific tests.
- On-board diagnostic test also:
  - Provides a quick inspection of the DSC usually performed at the start of each diagnostic procedure.
  - Provides verification after repairs to ensure that no other faults occurred during service.
- The OBD test is divided into 3 tests:
  - Read/clear diagnostic results, PID monitor and record and active command modes.

Read/ clear diagnostic results

- This function allows you to read or clear DTCs in the DSC HU/CM memory.

PID/ Data monitor and record

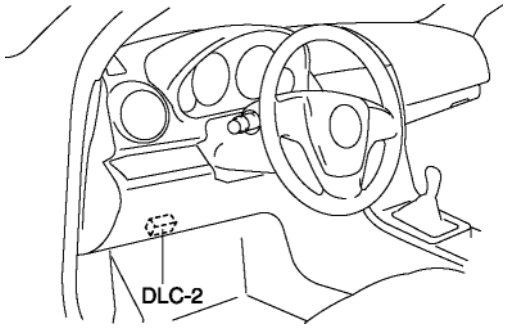
- This function allows you to access certain data values, input signals, calculated values, and system status information.

Active command modes

- This function allows you to control devices through the M-MDS.

Reading DTCs Procedure

1. Connect the M-MDS (IDS) to the DLC-2.



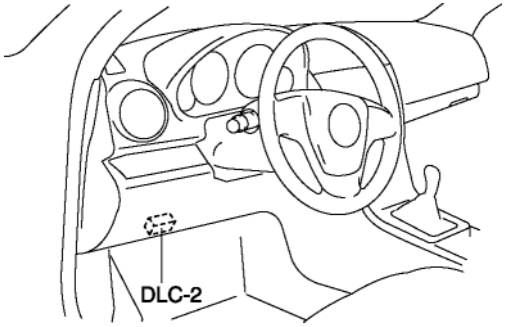
2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
   - Select "Self Test".
   - Select "Modules".
   - Select "ABS".
3. Verify the DTC according to the directions on the screen.

If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection.

4. After completion of repairs, clear all DTCs stored in the DSC. (See **Clearing DTCs Procedures**.)

Clearing DTCs Procedures

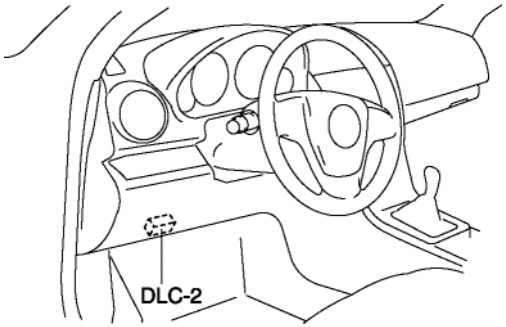
1. Connect the M-MDS (IDS) to the DLC-2.



2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
    - Select "Self Test".
    - Select "Modules".
    - Select "ABS".
3. Verify the DTC according to the directions on the screen.
4. Press the clear button on the DTC screen to clear the DTC.
5. Switch the ignition to off.
6. Switch the ignition to ON and wait for **5 s or more**.
7. Perform DTC inspection. (See **Reading DTCs Procedure**.)
8. Verify that no DTCs are displayed.

PID/ Data Monitor and Record Procedure

1. Connect the M-MDS (IDS) to the DLC-2.



2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
    - Select "DataLogger".
    - Select "Modules".
    - Select "ABS".
3. Select the applicable PID from the PID table.

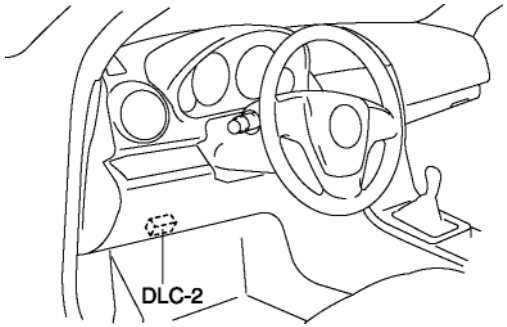
4. Verify the PID data according to the directions on the screen.

NOTE:

- The PID data screen function is used for monitoring the calculated value of input/output signals in the module. Therefore, if the monitored value of the output parts is not within the specification, it is necessary to inspect the monitored value of input parts corresponding to the applicable output part control. In addition, because the system does not display an output part malfunction as an abnormality in the monitored value, it is necessary to inspect the output parts individually.
- When detecting DTCs, PIDs related to a malfunctioning system may not display even if the module is normal. Therefore, if a PID is not displayed, it is necessary to verify the DTC, perform malfunction diagnosis of the DTC that was detected, and do repairs.

Active Command Modes Procedure

1. Connect the M-MDS (IDS) to the DLC-2.



2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
    - Select "DataLogger".
    - Select "Modules".
    - Select "ABS".
3. Select the active command modes from the PID table.
4. Perform the active command modes, inspect the operations for each parts.
    - If the operation of output parts cannot be verified after the active command mode inspection is performed, this could indicate the possibility of an open or short circuit, sticking, or operation malfunction in the output parts.

DTC Table

DTC M-MDS	System malfunction location	Page
C0001:01	DSC HU/CM internal malfunction (linear control solenoid valve)	
C0003:01		
C0010:01	DSC HU/CM internal malfunction (LF inlet solenoid)	
	DSC HU/CM internal	

C0011:01	malfunction (LF outlet solenoid)	(See **DTC C0001:01/ C0003:01/ C0010:01/ C0011:01/ C0014:01/ C0015:01/ C0018:01/ C0019:01/ C001C:01/ C001D:01 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0014:01	DSC HU/CM internal malfunction (RF inlet solenoid)	
C0015:01	DSC HU/CM internal malfunction (RF outlet solenoid)	
C0018:01	DSC HU/CM internal malfunction (LR inlet solenoid)	
C0019:01	DSC HU/CM internal malfunction (LR outlet solenoid)	
C001C:01	DSC HU/CM internal malfunction (RR inlet solenoid)	
C001D:01	DSC HU/CM internal malfunction (RR outlet solenoid)	
C0020:01	Pump motor, motor relay	(See **DTC C0020:01/ C0020:11/ C0020:13/ C0020:16/ C0020:1C/ C0020:71 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0020:11		
C0020:13		
C0020:16		
C0020:1C		
C0020:71		
C0031:01	LF ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0031:13		
C0031:23	LF ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0031:27		
C0031:62		

C0034:01 C0034:13	RF ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0034:23 C0034:27 C0034:62	RF ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0037:01 C0037:13	LR ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0037:23 C0037:27 C0037:62	LR ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C003A:01 C003A:13	RR ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C003A:23 C003A:27 C003A:62	RR ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0040:13 C0040:64	Brake switch	(See **DTC C0040:13/ C0040:64 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0044:14 C0044:1C C0044:65 C0044:66 C0044:67	Brake fluid pressure sensor	(See **DTC C0044:14/ C0044:1C/ C0044:65/ C0044:66/ C0044:67 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0051:54	Steering angle sensor	(See **DTC C0051:54 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0061:28 C0061:62 C0062:27 C0062:28 C0062:29		

C0062:62	SAS control module system	(See DTC C0061:28/ C0061:62/ C0062:27/ C0062:28/ C0062:29/ C0062:62/ C0062:65/ C0063:27/ C0063:28/ C0063:61/ C0063:62/ C006A:61/ C1A97:27/ C1A97:28/ C1A97:29/ C1A98:27/ C1A98:28/ C1A98:29 [DYNAMIC STABILITY CONTROL (DSC)].)
C0062:65		
C0063:27		
C0063:28		
C0063:61		
C0063:62		
C006A:61		
C0089:11	DSC OFF switch	(See DTC C0089:11 [DYNAMIC STABILITY CONTROL (DSC)].)
C1137:64*1	Reverse signal (MTX)	(See DTC C1137:64 [DYNAMIC STABILITY CONTROL (DSC)].)
C1A77:12	Valve relay	(See DTC C1A77:12/ C1A77:13/ C1A77:16 [DYNAMIC STABILITY CONTROL (DSC)].)
C1A77:13		
C1A77:16		
C1A97:27	SAS control module system	(See DTC C0061:28/ C0061:62/ C0062:27/ C0062:28/ C0062:29/ C0062:62/ C0062:65/ C0063:27/ C0063:28/ C0063:61/ C0063:62/ C006A:61/ C1A97:27/ C1A97:28/ C1A97:29/ C1A98:27/ C1A98:28/ C1A98:29 [DYNAMIC STABILITY CONTROL (DSC)].)
C1A97:28		
C1A97:29		
C1A98:27		
C1A98:28		
C1A98:29		
U0001:88	CAN line	(See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)
U0028:87	SAS control module system (CAN2 line malfunction)	(See DTC U0028:87 [DYNAMIC STABILITY CONTROL (DSC)].)
U0100:00	CAN line	(See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)
U0101:00*2		
U0140:00	Communication error with BCM	(See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)
U0155:00	Communication error with instrument cluster	

U0214:00*3	Communication error with keyless control module	
U0401:00	Abnormal massage from PCM	(See **DTC U0401:00/ U0401:68 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0401:68		
U0402:00*2	Abnormal massage from TCM	(See **DTC U0402:00 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0422:00	Steering angle sensor	(See **DTC U0422:00/ U0422:28/ U0422:64/ U0422:86 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0422:28		
U0422:64		
U0422:86		
U0423:29	Brake fluid level sensor	(See **DTC U0423:29/ U0423:7B [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0423:7B		
U2100:00	DSC HU/CM configuration	(See **DTC U2100:00 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3000:4A	DSC HU/CM mismatched installation	(See **DTC U3000:4A [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3000:96	DSC HU/CM (internal malfunction)	(See **DTC U3000:96 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3003:16	Power supply system	(See **DTC U3003:16/ U3003:17/ U3003:1C [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3003:17		
U3003:1C		

*1
MTX
*2
ATX
*3
With advanced keyless entry and push button start system

PID/ DATA Monitor Table

PID name (definition)	Unit/Condition	Operation condition (reference)	Action
BRAKE_SW	On/Off	• Brake pedal depressed: On • Brake pedal released: Off	Inspect the brake switch. (See **BRAKE SWITCH INSPECTION**.)

BRK_FLUID	Normal/Low	• Brake fluid level is normal: Normal • Brake fluid level is low: Low	Inspect the brake fluid level sensor. (See **BRAKE FLUID LEVEL SENSOR INSPECTION**.)
LAT_ACCL	G	• Vehicle stopped or driving at constant speed: **0 G** • Cornering to right: Changes **0 G—positive** • Cornering to left: Changes **0 G—negative**	Perform the DTC inspection for the SAS control module. (See **DTC INSPECTION**.)
MCYLI_P	Pa, psi	• Brake pedal depressed: Changes according to the brake fluid pressure	Inspect the brake fluid pressure sensor. (See **BRAKE FLUID PRESSURE SENSOR INSPECTION**.)
PMP_MTR	On/Off	• Pump motor activated: On • Pump motor not activated: Off	Inspect the DSC HU/CM. (See **DSC HU/ CM INSPECTION**.)
STEER_ANGL	°	• Steering wheel in neutral position (not turned): **0°** • Steering wheel turned to left: Changes **0°—negative** • Steering wheel turned to right: Changes **0°—positive**	Inspect the steering angle sensor. (See **STEERING ANGLE SENSOR INSPECTION**.)
VPWR	V	Switch the ignition to ON: **B+**	Inspect power supply circuit. (See **DSC HU/ CM INSPECTION**.)
V_LF_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	Inspect the DSC HU/CM. (See **DSC HU/ CM INSPECTION**.)
V_LF_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_LR_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_LR_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RF_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RF_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RR_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RR_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_LIN_L	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	Inspect the DSC HU/CM. (See **DSC HU/ CM INSPECTION**.)
V_LIN_R	On/Off	• Solenoid valve activated: On	

		Solenoid valve not activated: Off	
WSPD_LF	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the LF ABS wheel-speed sensor. (See **FRONT ABS WHEEL-SPEED SENSOR INSPECTION**.)
WSPD_LR	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the LR ABS wheel-speed sensor. (See **REAR ABS WHEEL-SPEED SENSOR INSPECTION**.)
WSPD_RF	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the RF ABS wheel-speed sensor. (See **FRONT ABS WHEEL-SPEED SENSOR INSPECTION**.)
WSPD_RR	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the RR ABS wheel-speed sensor. (See **REAR ABS WHEEL-SPEED SENSOR INSPECTION**.)
YAW_RATE	°/s	• Vehicle stopped or driving straight: **0 °/s** • Cornering to left: Changes **0 °/s—negative** • Cornering to right: Changes **0 °/s—positive**	• Perform the DTC inspection for the SAS control module. (See **DTC INSPECTION**.)

Active Command Modes Table

Command name	Output part	Operation	Operating condition
PMP_MTR	Pump motor	On/Off	Switch the ignition to ON
V_LF_INL	LF inlet solenoid valve		
V_LF_OTL	LF outlet solenoid valve		
V_LR_INL	LR inlet solenoid valve		
V_LR_OTL	LR outlet solenoid valve		
V_RF_INL	RF inlet solenoid valve		
V_RF_OTL	RF outlet solenoid valve		
V_RR_INL	RR inlet solenoid valve		
V_RR_OTL	RR outlet solenoid valve		
V_LIN_L	Left linear control solenoid valve		
V_LIN_R	Right linear control solenoid valve		

< Previous **Next >**

Back to Top

2012 - Mazda6 - Brakes

ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)]

On-Board Diagnostic (OBD) Test Description

- The OBD test inspects the integrity and function of the DSC and outputs the results when requested by the specific tests.
- On-board diagnostic test also:
  - Provides a quick inspection of the DSC usually performed at the start of each diagnostic procedure.
  - Provides verification after repairs to ensure that no other faults occurred during service.
- The OBD test is divided into 3 tests:
  - Read/clear diagnostic results, PID monitor and record and active command modes.

Read/ clear diagnostic results

- This function allows you to read or clear DTCs in the DSC HU/CM memory.

PID/ Data monitor and record

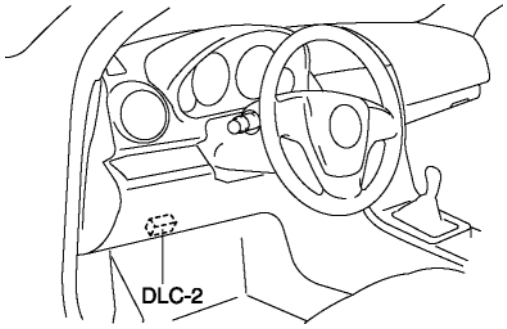
- This function allows you to access certain data values, input signals, calculated values, and system status information.

Active command modes

- This function allows you to control devices through the M-MDS.

Reading DTCs Procedure

1. Connect the M-MDS (IDS) to the DLC-2.



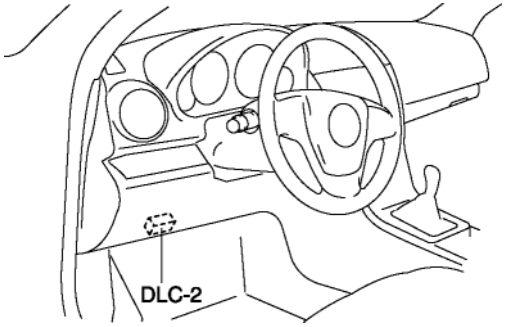
2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
   - Select "Self Test".
   - Select "Modules".
   - Select "ABS".
3. Verify the DTC according to the directions on the screen.

If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection.

4. After completion of repairs, clear all DTCs stored in the DSC. (See **Clearing DTCs Procedures**.)

Clearing DTCs Procedures

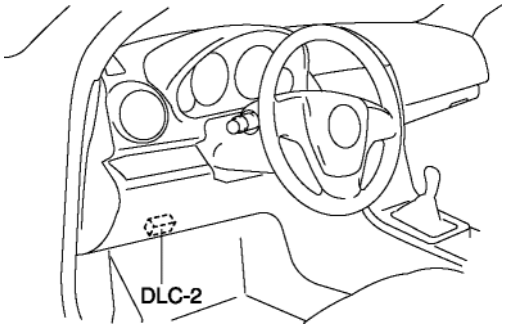
1. Connect the M-MDS (IDS) to the DLC-2.



2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
    - Select "Self Test".
    - Select "Modules".
    - Select "ABS".
3. Verify the DTC according to the directions on the screen.
4. Press the clear button on the DTC screen to clear the DTC.
5. Switch the ignition to off.
6. Switch the ignition to ON and wait for **5 s or more**.
7. Perform DTC inspection. (See **Reading DTCs Procedure**.)
8. Verify that no DTCs are displayed.

PID/ Data Monitor and Record Procedure

1. Connect the M-MDS (IDS) to the DLC-2.



2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
    - Select "DataLogger".
    - Select "Modules".
    - Select "ABS".
3. Select the applicable PID from the PID table.

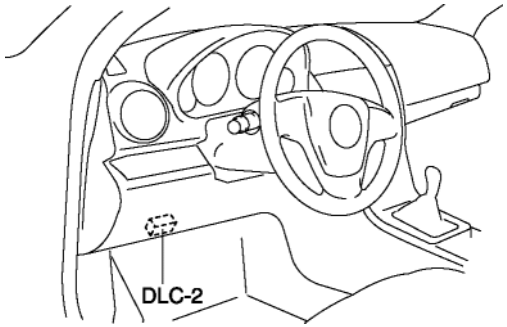
4. Verify the PID data according to the directions on the screen.

NOTE:

- The PID data screen function is used for monitoring the calculated value of input/output signals in the module. Therefore, if the monitored value of the output parts is not within the specification, it is necessary to inspect the monitored value of input parts corresponding to the applicable output part control. In addition, because the system does not display an output part malfunction as an abnormality in the monitored value, it is necessary to inspect the output parts individually.
- When detecting DTCs, PIDs related to a malfunctioning system may not display even if the module is normal. Therefore, if a PID is not displayed, it is necessary to verify the DTC, perform malfunction diagnosis of the DTC that was detected, and do repairs.

Active Command Modes Procedure

1. Connect the M-MDS (IDS) to the DLC-2.



2. After the vehicle is identified, select the following items from the initialization screen of the IDS.
    - Select "DataLogger".
    - Select "Modules".
    - Select "ABS".
3. Select the active command modes from the PID table.
4. Perform the active command modes, inspect the operations for each parts.
    - If the operation of output parts cannot be verified after the active command mode inspection is performed, this could indicate the possibility of an open or short circuit, sticking, or operation malfunction in the output parts.

DTC Table

DTC M-MDS	System malfunction location	Page
C0001:01	DSC HU/CM internal malfunction (linear control solenoid valve)	
C0003:01		
C0010:01	DSC HU/CM internal malfunction (LF inlet solenoid)	
	DSC HU/CM internal	

C0011:01	malfunction (LF outlet solenoid)	(See **DTC C0001:01/ C0003:01/ C0010:01/ C0011:01/ C0014:01/ C0015:01/ C0018:01/ C0019:01/ C001C:01/ C001D:01 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0014:01	DSC HU/CM internal malfunction (RF inlet solenoid)	
C0015:01	DSC HU/CM internal malfunction (RF outlet solenoid)	
C0018:01	DSC HU/CM internal malfunction (LR inlet solenoid)	
C0019:01	DSC HU/CM internal malfunction (LR outlet solenoid)	
C001C:01	DSC HU/CM internal malfunction (RR inlet solenoid)	
C001D:01	DSC HU/CM internal malfunction (RR outlet solenoid)	
C0020:01	Pump motor, motor relay	(See **DTC C0020:01/ C0020:11/ C0020:13/ C0020:16/ C0020:1C/ C0020:71 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0020:11		
C0020:13		
C0020:16		
C0020:1C		
C0020:71		
C0031:01	LF ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0031:13		
C0031:23	LF ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0031:27		
C0031:62		

C0034:01 C0034:13	RF ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0034:23 C0034:27 C0034:62	RF ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0037:01 C0037:13	LR ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0037:23 C0037:27 C0037:62	LR ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C003A:01 C003A:13	RR ABS wheel-speed sensor	(See **DTC C0031:01/ C0031:13/ C0034:01/ C0034:13/ C0037:01/ C0037:13/ C003A:01/ C003A:13 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C003A:23 C003A:27 C003A:62	RR ABS wheel-speed sensor/ABS sensor rotor	(See **DTC C0031:23/ C0031:27/ C0031:62/ C0034:23/ C0034:27/ C0034:62/ C0037:23/ C0037:27/ C0037:62/ C003A:23/ C003A:27/ C003A:62 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0040:13 C0040:64	Brake switch	(See **DTC C0040:13/ C0040:64 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0044:14 C0044:1C C0044:65 C0044:66 C0044:67	Brake fluid pressure sensor	(See **DTC C0044:14/ C0044:1C/ C0044:65/ C0044:66/ C0044:67 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0051:54	Steering angle sensor	(See **DTC C0051:54 [DYNAMIC STABILITY CONTROL (DSC)]**.)
C0061:28 C0061:62 C0062:27 C0062:28 C0062:29		

C0062:62	SAS control module system	(See DTC C0061:28/ C0061:62/ C0062:27/ C0062:28/ C0062:29/ C0062:62/ C0062:65/ C0063:27/ C0063:28/ C0063:61/ C0063:62/ C006A:61/ C1A97:27/ C1A97:28/ C1A97:29/ C1A98:27/ C1A98:28/ C1A98:29 [DYNAMIC STABILITY CONTROL (DSC)].)
C0062:65		
C0063:27		
C0063:28		
C0063:61		
C0063:62		
C006A:61		
C0089:11	DSC OFF switch	(See DTC C0089:11 [DYNAMIC STABILITY CONTROL (DSC)].)
C1137:64*1	Reverse signal (MTX)	(See DTC C1137:64 [DYNAMIC STABILITY CONTROL (DSC)].)
C1A77:12	Valve relay	(See DTC C1A77:12/ C1A77:13/ C1A77:16 [DYNAMIC STABILITY CONTROL (DSC)].)
C1A77:13		
C1A77:16		
C1A97:27	SAS control module system	(See DTC C0061:28/ C0061:62/ C0062:27/ C0062:28/ C0062:29/ C0062:62/ C0062:65/ C0063:27/ C0063:28/ C0063:61/ C0063:62/ C006A:61/ C1A97:27/ C1A97:28/ C1A97:29/ C1A98:27/ C1A98:28/ C1A98:29 [DYNAMIC STABILITY CONTROL (DSC)].)
C1A97:28		
C1A97:29		
C1A98:27		
C1A98:28		
C1A98:29		
U0001:88	CAN line	(See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)
U0028:87	SAS control module system (CAN2 line malfunction)	(See DTC U0028:87 [DYNAMIC STABILITY CONTROL (DSC)].)
U0100:00	CAN line	(See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)
U0101:00*2		
U0140:00	Communication error with BCM	(See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)
U0155:00	Communication error with instrument cluster	

U0214:00*3	Communication error with keyless control module	
U0401:00	Abnormal massage from PCM	(See **DTC U0401:00/ U0401:68 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0401:68		
U0402:00*2	Abnormal massage from TCM	(See **DTC U0402:00 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0422:00	Steering angle sensor	(See **DTC U0422:00/ U0422:28/ U0422:64/ U0422:86 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0422:28		
U0422:64		
U0422:86		
U0423:29	Brake fluid level sensor	(See **DTC U0423:29/ U0423:7B [DYNAMIC STABILITY CONTROL (DSC)]**.)
U0423:7B		
U2100:00	DSC HU/CM configuration	(See **DTC U2100:00 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3000:4A	DSC HU/CM mismatched installation	(See **DTC U3000:4A [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3000:96	DSC HU/CM (internal malfunction)	(See **DTC U3000:96 [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3003:16	Power supply system	(See **DTC U3003:16/ U3003:17/ U3003:1C [DYNAMIC STABILITY CONTROL (DSC)]**.)
U3003:17		
U3003:1C		

*1
MTX
*2
ATX
*3
With advanced keyless entry and push button start system

PID/ DATA Monitor Table

PID name (definition)	Unit/Condition	Operation condition (reference)	Action
BRAKE_SW	On/Off	• Brake pedal depressed: On • Brake pedal released: Off	Inspect the brake switch. (See **BRAKE SWITCH INSPECTION**.)

BRK_FLUID	Normal/Low	• Brake fluid level is normal: Normal • Brake fluid level is low: Low	Inspect the brake fluid level sensor. (See **BRAKE FLUID LEVEL SENSOR INSPECTION**.)
LAT_ACCL	G	• Vehicle stopped or driving at constant speed: **0 G** • Cornering to right: Changes **0 G—positive** • Cornering to left: Changes **0 G—negative**	Perform the DTC inspection for the SAS control module. (See **DTC INSPECTION**.)
MCYLI_P	Pa, psi	• Brake pedal depressed: Changes according to the brake fluid pressure	Inspect the brake fluid pressure sensor. (See **BRAKE FLUID PRESSURE SENSOR INSPECTION**.)
PMP_MTR	On/Off	• Pump motor activated: On • Pump motor not activated: Off	Inspect the DSC HU/CM. (See **DSC HU/ CM INSPECTION**.)
STEER_ANGL	°	• Steering wheel in neutral position (not turned): **0°** • Steering wheel turned to left: Changes **0°—negative** • Steering wheel turned to right: Changes **0°—positive**	Inspect the steering angle sensor. (See **STEERING ANGLE SENSOR INSPECTION**.)
VPWR	V	Switch the ignition to ON: **B+**	Inspect power supply circuit. (See **DSC HU/ CM INSPECTION**.)
V_LF_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	Inspect the DSC HU/CM. (See **DSC HU/ CM INSPECTION**.)
V_LF_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_LR_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_LR_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RF_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RF_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RR_INL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_RR_OTL	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	
V_LIN_L	On/Off	• Solenoid valve activated: On • Solenoid valve not activated: Off	Inspect the DSC HU/CM. (See **DSC HU/ CM INSPECTION**.)
V_LIN_R	On/Off	• Solenoid valve activated: On	

		Solenoid valve not activated: Off	
WSPD_LF	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the LF ABS wheel-speed sensor. (See **FRONT ABS WHEEL-SPEED SENSOR INSPECTION**.)
WSPD_LR	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the LR ABS wheel-speed sensor. (See **REAR ABS WHEEL-SPEED SENSOR INSPECTION**.)
WSPD_RF	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the RF ABS wheel-speed sensor. (See **FRONT ABS WHEEL-SPEED SENSOR INSPECTION**.)
WSPD_RR	KPH, MPH	• Vehicle stopped: **0 KPH**, **0 MPH** • Vehicle running: Vehicle speed	Inspect the RR ABS wheel-speed sensor. (See **REAR ABS WHEEL-SPEED SENSOR INSPECTION**.)
YAW_RATE	°/s	• Vehicle stopped or driving straight: **0 °/s** • Cornering to left: Changes **0 °/s—negative** • Cornering to right: Changes **0 °/s—positive**	• Perform the DTC inspection for the SAS control module. (See **DTC INSPECTION**.)

Active Command Modes Table

Command name	Output part	Operation	Operating condition
PMP_MTR	Pump motor	On/Off	Switch the ignition to ON
V_LF_INL	LF inlet solenoid valve		
V_LF_OTL	LF outlet solenoid valve		
V_LR_INL	LR inlet solenoid valve		
V_LR_OTL	LR outlet solenoid valve		
V_RF_INL	RF inlet solenoid valve		
V_RF_OTL	RF outlet solenoid valve		
V_RR_INL	RR inlet solenoid valve		
V_RR_OTL	RR outlet solenoid valve		
V_LIN_L	Left linear control solenoid valve		
V_LIN_R	Right linear control solenoid valve		

< Previous **Next >**

Back to Top