DTC INSPECTION id080200080500

CMDTC Self Test

- 1. Connect the M-MDS to the DLC-2.
- 2. After the vehicle is identified, select the following items from the initialization screen of the M-MDS.

 - (1) Select "Self Test".(2) Select "All CMDTCs".
- 3. Verify the DTC according to the directions on the screen.
 - · If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection after recording the snapshot data.
- 4. After completion of repairs, clear all DTCs stored in the SAS control module. (See CLEARING DTC.)

ODDTC Self Test

- 1. Connect the M-MDS to the DLC-2.
- 2. After the vehicle is identified, select the following items from the initialization screen of the M-MDS.
 - (1) Select "Self Test".
 - (2) Select "Modules".
 - (3) Select "RCM".
- 3. Verify the DTC according to the directions on the screen.
 - If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection after recording the snapshot data.
- 4. After completion of repairs, clear all DTCs stored in the SAS control module. (See CLEARING DTC.)

Snapshot Data Table

Note

· Snapshot data items are not displayed, according to detected DTC.

Not applicable

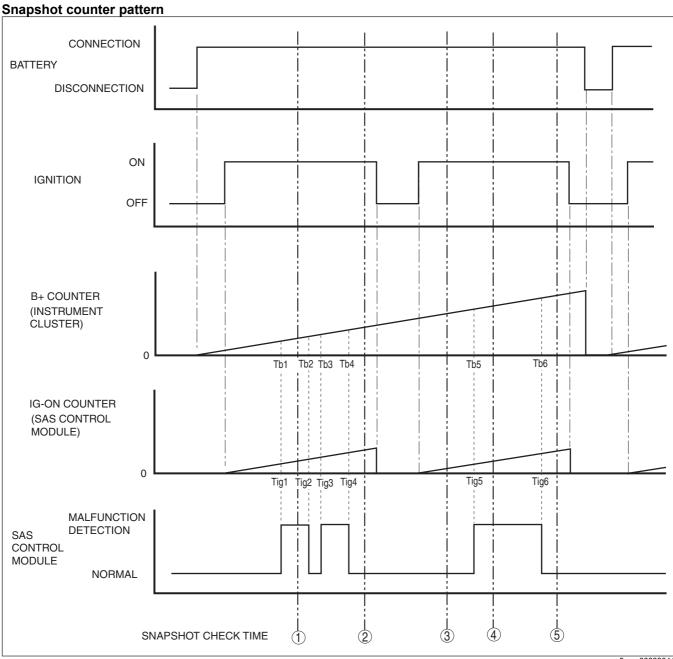
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Snapshot data item	Unit		Definition	Data read/use method	Corresponding PID data monitor item
AAT	°C	°F	Ambient temperature —		_
APP_STATUS	Accelerator Pedal Off/ Under20%/ Over20%/FAIL		Accelerator pedal position status	_	_
CFG_STATUS	Config Complete/ Not Configured/ Config Error		Instrument cluster configuration status	_	_
ECT_STATUS	Under 0 degrees C/ 0-Under 80 degrees C/ Over 80 degrees C/ FAIL		Engine coolant temperature status	_	_
FAULT_CNT	_	_	Number of malfunction detections	_	_
FIRST_DET_IG	RST_DET_IG hh:mm:ss*2		Time when initial malfunction occurs (IG-ON counter) • Elapsed time from when ignition is switched ON (engine off or on) until SAS control module detects first malfunction (See Snapshot counter pattern.)	_	_

Snapshot data item Unit		Definition	Data read/use method	Corresponding PID data monitor item	
IC_VPWR	V	Instrument cluster power supply voltage	The SAS control module constantly receives the power supply voltage value of the instrument cluster sent via CAN signal from the instrument cluster. If a DTC is detected, the SAS control module records the power supply voltage of the instrument cluster when the DTC was detected, and it is displayed in the M-MDS.	VPWR*1	
IG-ON_TIMER	hh:mm:ss ^{*2}	Elapsed time since ignition was switched ON Note • The instrument cluster records the elapsed time since the ignition was switched ON.	The SAS control module constantly receives the elapsed time since the ignition was switched ON sent via CAN signal from the instrument cluster. If a DTC is detected, the SAS control module records the elapsed time since the ignition was switched ON when the DTC was detected, and it is displayed in the M-MDS.	_	
LAST_CLR	hh:mm:ss*2	Repair time for last malfunction (B+counter) • Elapsed time from when battery is connected until SAS control module detects that last malfunction is repaired (See Snapshot counter pattern.)	_	_	
LAST_CLR_IG	hh:mm:ss*2	Repair time for last malfunction (IG-ON counter) • Elapsed time from when ignition is switched ON (engine off or on) until SAS control module detects that last malfunction is repaired (See Snapshot counter pattern.)	_	_	
LAST_DET	hh:mm:ss ^{*2}	Time when last malfunction occurs (B+ counter) • Elapsed time from when battery is connected until SAS control module detects last malfunction (See Snapshot counter pattern.)	_	_	
LAST_DET_IG hh:mm:ss*2 sr		Time when last malfunction occurs (IG-ON counter) • Elapsed time from when ignition is switched ON (engine off or on) until SAS control module detects last malfunction (See Snapshot counter pattern.)	_	_	

Snapshot data item	Unit	Definition	Data read/use method	Corresponding PID data monitor item
PWR_MODE_KEY	Key Out/Key Recently Out (Position 0)/ Accessory (Position 1)/Post Ignition (Position 2)/Ignition On (Position 2)/ Running (Position 2)/ Running - Starting	Key Out: Ignition switched to off Key Recently Out (Position 0): Elapsed time within 3 s since ignition was switched to off Accessory (Position 1): Ignition is switched to ACC Post Ignition (Position 2): Elapsed time within 3 s since ignition was switched ON Ignition On (Position 2): Ignition switched ON (engine off) Running (Position 2): Ignition switched ON (engine on) Running - Starting: Cranking condition	The SAS control module constantly receives the ignition switch status sent via CAN signal from the instrument cluster. If a DTC is detected, the SAS control module records the ignition switch status when the DTC was detected, and it is displayed in the MMDS.	_
RPM_STATUS	Engine Stop/ Under1500rpm/ Over1500rpm/ FAIL	Engine speed status	The SAS control module constantly receives the engine speed sent via CAN signal from the instrument cluster. If a DTC is detected, the SAS control module records the engine speed when the DTC was detected, and it is displayed in the M-MDS.	TACHOMTR*1
SHIFT_STATUS	P/N/ D/ R/ FAIL	Selector lever position status	The SAS control module constantly receives the selector lever position sent via CAN signal from the instrument cluster. If a DTC is detected, the SAS control module records the selector lever position when the DTC was detected, and it is displayed in the MMDS.	_
TOTAL_TIME hh:mm:ss*2		Accumulated total elapsed time since vehicle completion until SAS control module detects a DTC Note When the ROOM removed, and the ignition is switched to off, the time is not included in the elapsed time.	The elapsed time when the SAS control module detected a DTC can be calculated by performing the following procedure. 1. Verify the PID item TOTAL_TIME of the instrument cluster. 2. Verify the snap shot data item TOTAL_TIME. 3. Subtract 2 from 1.	TOTAL_TIME*1

Snapshot data item	Unit		Definition	Data read/use method	Corresponding PID data monitor item
TOTAL_DIST	km	miles	Accumulated total traveled distance from completion of vehicle until SAS control module detects DTC (Odometer value in instrument cluster)	The distance traveled when the SAS control module detected a DTC can be calculated by performing the following procedure. 1. Verify the odometer value in the instrument cluster. 2. Verify the snap shot data item TOTAL_DIST. 3. Subtract 2 from 1.	_
VPWR	VPWR V		SAS control module power supply malfunction	_	VPWR_IGA
VSPD_STATUS	Stop/ 0-10km/h/ Over10km/h/ FAIL		Vehicle speed status	The SAS control module constantly receives the vehicle speed sent via CAN signal from the instrument cluster. If a DTC is detected, the SAS control module records the vehicle speed when the DTC was detected, and it is displayed in the M-MDS.	SPEEDOMTR* 1

^{*1 :} Instrument cluster PID (See PID/DATA MONITOR TABLE [INSTRUMENT CLUSTER].) *2 : The seconds may be indicated after the decimal point.



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Snan	FAULT_CNT	FIRST_DET_IG	LAST_CLR	LAST_CLR_I G	LAST_DET	LAST_DET_IG	TOTAL_TIME
Snap- shot check time	Number of malfunction detections	Time when initial malfunction occurs (IG-ON counter)	Repair time for last malfunction (B+ counter)	Repair time for last malfunction (IG-ON counter)	Time when last malfunction occurs (B+ counter)	Time when last malfunction occurs (IG-ON counter)	Time when first malfunction occurs (B+ counter)
1	1	Tb1	-	-	Tb1	Tig1	Tig1
2	2	Tb1	Tb4	Tig4	Tb3	Tig3	Tig1
3	2	Tb1	Tb4	Tig4	Tb3	Tig3	Tig1
4	3	Tb1	Tb4	Tig4	Tb5	Tig5	Tig1
5	3	Tb1	Tb6	Tig6	Tb5	Tig5	Tig1