NO.2 ANY OF THE FOLLOWING LIGHTS STAY ON: (ABS WARNING LIGHT, TCS/DSC INDICATOR LIGHT AND/OR TCS OFF INDICATOR LIGHT) [DYNAMIC STABILITY CONTROL (DSC)]

id0403b2895700

2	**Any of the following lights stay on: (ABS warning light, TCS/DSC indicator light and/or TCS OFF indicator light)**
POSSIBLE CAUSE	• No connection at DSC HU/CM connector (When DSC HU/CM connector comes off, ABS warning light, brake system warning light, TCS/DSC indicator light, and TCS OFF indicator light illuminate.) • DSC HU/CM detected malfunction. (Input and output device malfunction) • DSC HU/CM detects low voltage in power supply. • DSC HU/CM ground malfunction (When DSC HU/CM ground is not securely connected, ABS warning light, brake system warning light, TCS/DSC indicator light, and TCS OFF indicator light illuminate but diagnostic trouble code does not display.) • DSC HU/CM does not operate. • PCM detected malfunction. • Error signal input from PCM • Communication error between DSC HU/CM and instrument cluster • Communication error between DSC HU/CM and PCM • Communication error between DSC HU/CM and EPS CM • After replacing SAS control module low-G sensor and yaw rate sensor initialization have not been performed. • After replacing DSC HU/CM brake fluid pressure sensor initialization has not been performed. • Non-completion of module configuration (When module configuration does not carried out, after replacing DSC HU/CM, ABS warning light will stay on.) • DSC HU/CM internal malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	**CONFIRM DSC HU/CM DTC** • Retrieve the DSC HU/CM DTC using the M-MDS (IDS). (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
		No	If communication error message is displayed on the M-MDS (IDS) screen: • Go to the next step. If communication error message is not displayed: • Go to Step 6.
2	**INSPECT CONNECTION OF DSC HU/CM CONNECTOR** • Inspect for connection of the DSC HU/CM connector. • Is the DSC HU/CM connector connected securely?	Yes	Go to the next step.
		No	Connect the DSC HU/CM connector securely, then go to Step 6.
3	**INSPECT DSC HU/CM POWER SUPPLY FUSE** • Inspect the DSC HU/CM ignition power supply fuse. • Is the fuse normal?	Yes	Go to the next step.
		No	Inspect the blown fuse's circuit for short to ground. Repair or replace the wiring harness for a possible short to ground as necessary. Install appropriate amperage fuse.
*4	**VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN DSC HU/CM POWER SUPPLY AND DSC HU/CM FOR CONTINUITY) OR ELSEWHERE** • Switch the ignition to ON. • Measure the voltage at the DSC HU/CM terminal Q (wiring harness-side). • Is the voltage **approx. 12 V**?	Yes	Go to the next step.
		No	Inspect for open circuit between DSC HU/CM and ignition. Repair or replace the wiring harness for a possible open circuit as necessary.
*5	**VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN DSC HU/CM AND GND FOR CONTINUITY) OR ELSEWHERE** • Switch the ignition to off. • Disconnect the DSC HU/CM connector. • Inspect for continuity between DSC HU/CM terminal AL (wiring harness-side) and body ground. • Is there continuity?	Yes	Replace the DSC HU/CM. (open circuit in the DSC HU/CM) (See DSC HU/CM REMOVAL/INSTALLATION.)
		No	Repair or replace the wiring harness for a possible open circuit and poor contact in ground point.

STEP	INSPECTION		ACTION
6	**CONFIRM PCM DTCs** • Retrieve the PCM DTCs using the M-MDS (IDS). (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (SeeON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
		No	Go to the next step.
7	**VERIFY IF MALFUNCTION CAUSED BY INITIALIZATION PROCEDURE FOR MODULE NOT PERFORMED** • Verify if malfunction caused by initialization procedure for brake fluid pressure sensor not performed. • Has the initial setting for the brake fluid pressure sensor been performed after replacing the DSC HU/CM?	Yes	Go to the next step.
		No	Perform the brake fluid pressure sensor initial setting. (See DSC RELATED PARTS SENSOR INITIALIZATION PROCEDURE.)
8	**VERIFY IF MALFUNCTION CAUSED BY INITIALIZATION PROCEDURE FOR LOW-G SENSOR NOT PERFORMED** • Verify if malfunction caused by initialization procedure for low-G sensor not performed. • Has the initial setting for the low-G sensor been performed after replacing the DSC HU/CM and the SAS control module?	Yes	Go to the next step.
		No	Perform the low-G sensor initial setting. (See DSC RELATED PARTS SENSOR INITIALIZATION PROCEDURE.)
9	**VERIFY IF MALFUNCTION CAUSED BY INITIALIZATION PROCEDURE FOR YAW RATE SENSOR NOT PERFORMED** • Verify if malfunction caused by initialization procedure for yaw rate sensor not performed. • Has the initial setting for the yaw rate sensor been performed after replacing the DSC HU/CM and the SAS control module?	Yes	Go to the next step.
		No	Perform the yaw rate sensor initial setting. (See DSC RELATED PARTS SENSOR INITIALIZATION PROCEDURE.)
10	**VERIFY WHETHER MALFUNCTION IS IN INSTRUMENT CLUSTER OR DSC HU/CM** • Connect the M-MDS (IDS) to the DLC-2. • Turn off and on all warning light and indicator lights using the instrument cluster PID WL+IL of active command modes. (See ACTIVE COMMAND MODES INSPECTION [INSTRUMENT CLUSTER].) • Do the ABS warning light, brake system warning light, TCS/DSC indicator light and DSC OFF indicator light turn on and off according to the active command modes?	Yes	Replace the DSC HU/CM. (Internal malfunction) (See DSC HU/CM REMOVAL/INSTALLATION.)
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)

- When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.