## NO.10 VEHICLE MOVES WHEN ACCELERATING FROM STANDSTILL ON SLOPE [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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10	VEHICLE MOVES WHEN ACCELERATING FROM STANDSTILL ON SLOPE			
DESCRIPTION	<b>ESCRIPTION</b> • Vehicle slips backwards on inclined road surface when accelerating after i-stop operates.			
	<ul> <li>Note</li> <li>MT vehicles do not have the Hill Launch Assist function from i-stop because the driver controls the brake pressure.</li> <li>i-stop (engine-stop control) continues operating when shifting the selector lever from D position to N or P position while i-stop (engine-stop control) is operating, however, if the slope of the road surface is within ±4 %, the Hill Launch Assist (HLA) function is canceled. (ATX)</li> <li>Hill launch assist function system (DSC) malfunction</li> </ul>			
POSSIBLE CAUSE	False detection of inclination angle (cannot calculate correct road slope)     Low-G (XY) sensor (built-into SAS control module) malfunction (In this case, the SAS control module)			

Diagnostic Procedure

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STEP	INSPECTION	RESULTS	ACTION	
1	INSPECT EFFECT OF NON-GENUINE ELECTRICAL ACCESSORY FOR CAUSE OF MALFUNCTION • Remove any non-genuine electrical accessory. • Verify the malfunction symptom. • Does vehicle slip backwards on inclined road surface when accelerating after i-stop operates?	Yes	The system is normal.  • Explain to the customer that the vehicle slips backwards on an inclined road surface when accelerating after i-stop operates due to the effect of the non-genuine electrical accessory installed.  Go to the next step.	
2	VERIFY DTC  • Retrieve the PCM, TCM, DSC HU/CM, SAS control module DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].) (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) (See DTC INSPECTION.)  • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FW6A-EL, FW6AX-EL].) (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) (See DTC TABLE.)	
		No	Go to the next step.	
3	DETERMINE IF MALFUNCTION CAUSE IS HILL LAUNCH ASSIST FUNCTION OR ATX SYSTEM • Verify the malfunction symptom on a flat road	Yes	Perform the symptom troubleshooting "NO.9 ACCELERATION MALFUNCTION". (See NO.9 ACCELERATION MALFUNCTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	
	surface.  • Does the acceleration lag when accelerating?	No	Brake fluid pressure sensor (built-into DSC HU/CM) or DSC HU/CM brake pressure hold function malfunction. • Replace the DSC HU/CM. (See DSC HU/CM REMOVAL/INSTALLATION.)	
4	<ul> <li>Verify the test results.</li> <li>If normal, return to the diagnostic index to service any additional symptoms. (See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>If a malfunction remains, inspect the related Service Information and perform the repair or diagnosis.  — If the vehicle is repaired, troubleshooting is completed.  — If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> </ul>			