## NO.8 HILL LAUNCH ASSIST (HLA) OPERATES EVEN ON A DOWNHILL/HILL LAUNCH ASSIST (HLA) DOES NOT OPERATE ON A SLOPE [DYNAMIC STABILITY CONTROL (DSC)]

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ever is in a position other than the ever position is in a forward gear.  er is in a reverse (R) position. (MTX) rever is in a R position. (ATX)  sulting from SAS control module differing conditions of wear) performed after replacing DSC HU/erformed, HLA may not operate at disignal, accelerator pedal position

Diagnostic procedure						
STEP	INSPECTION		ACTION			
1	VERIFY DTC FOR RELATED MODULES	Yes	Go to the applicable DTC inspection.			
	Retrieve the DSC HU/CM, PCM, TCM (ATX)		(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY			
	and instrument cluster DTC using the M-MDS.		CONTROL (DSC)].)			
	(See ON-BOARD DIAGNOSIS [DYNAMIC		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)			
	STABILITY CONTROL (DSC)].)		(See DTC TABLE [SKYACTIV-D 2.2].)			
	(See ON-BOARD DIAGNOSTIC TEST		(See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE			
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		[FW6A-EL, FW6AX-EL].)			
	(SeeON-BOARD DIAGNOSTIC TEST		(See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE			
	[SKYACTIV-D 2.2].)		[GW6A-EL, GW6AX-EL].)			
	(See ON-BOARD DIAGNOSTIC SYSTEM DTC		(See DTC TABLE [INSTRUMENT CLUSTER].)			
	INSPECTION [FW6A-EL, FW6AX-EL].)	No	Go to the next step.			
	(See ON-BOARD DIAGNOSTIC SYSTEM DTC					
	INSPECTION [GW6A-EL, GW6AX-EL].)					
	(See DTC INSPECTION [INSTRUMENT					
	CLUSTER].)					
	Are any DTCs present?					
2	VERIFY IF FALSE DETECTION OF	Yes	Go to the next step.			
	INCLINATION ANGLE CAUSED BY	No	Repair the SAS control module installation condition.			
	MALFUNCTIONING SAS CONTROL MODULE		(See SAS CONTROL MODULE REMOVAL/			
	INSTALLATION		INSTALLATION.)			
	Inspect the SAS control module installation					
	condition for the following:					
	— Is the module installed with any twisting?					
	— Is the module installed correctly?					

STEP	INSPECTION		ACTION
3	VERIFY IF MALFUNCTION CAUSED BY	Yes	Go to the next step.
	INITIALIZATION PROCEDURE FOR LOW-G	No	Perform the initialization procedure.
	SENSOR NOT PERFORMED		(See DSC RELATED PARTS SENSOR INITIALIZATION
	Verify if malfunction caused by initialization		PROCEDURE.)
	procedure for low-G sensor not performed.		
	Has the initialization for the low-G sensor been		
	performed after replacing the DSC HU/CM and		
	the SAS control module?		
4	VERIFY IF MALFUNCTION CAUSED BY TIRE	Yes	Go to the next step.
	MALFUNCTION PERFORMED	No	If the pressure is incorrect, adjust the tire pressure to the
	Inspect the tire pressure and condition.		specification.
	Are tire pressure and condition normal?		If the tires are worn, replace the tires.
5	INSPECT RELATED MODULES FOR	Yes	Inspect the following:
	MALFUNCTION CAUSED BY FALSE SIGNAL		Brake (foot brake/parking brake) drag
	Access the following DSC HU/CM, PCM and		Engine output malfunction
	instrument cluster PIDs using the M-MDS:		Repair or replace any malfunctioning parts according to the
	(See ON-BOARD DIAGNOSIS [DYNAMIC		inspection result.
	STABILITY CONTROL (DSC)].)	No	Inspect the related parts and wiring harness.
	(See PCM INSPECTION [SKYACTIV-G 2.0,		Repair or replace any malfunctioning parts according to the
	SKYACTIV-G 2.5].)		inspection result.
	(See PCM INSPECTION [SKYACTIV-D 2.2].)		
	(See ON-BOARD DIAGNOSTIC SYSTEM PID/		
	DATA MONITOR INSPECTION [FW6A-EL,		
	FW6AX-EL].)		
	(See ON-BOARD DIAGNOSTIC SYSTEM PID/		
	DATA MONITOR INSPECTION [GW6A-EL,		
	GW6AX-EL].) (See PID/DATA MONITOR INSPECTION		
	[INSTRUMENT CLUSTER].)		
	DSC HU/CM		
	BRAKE_SW (Brake signal)		
	LON_ACCL_C (Low-G sensor (longitudinal)		
	G) calculated value signal)		
	LON_ACCL_R (Low-G sensor (longitudinal)		
	G) raw value signal)		
	BRK_F_P_C (Brake fluid pressure		
	calculated value signal)		
	<ul> <li>BRK_F_P_R (Brake fluid pressure raw</li> </ul>		
	value signal)		
	<ul> <li>WSPD_LF (ABS wheel-speed sensor (LF)</li> </ul>		
	signal)		
	<ul><li>— WSPD_RF (ABS wheel-speed sensor (RF)</li></ul>		
	signal)		
	WSPD_LR (ABS wheel-speed sensor (LR)		
	signal)		
	WSPD_RR (ABS wheel-speed sensor (RR)		
	signal)		
	PCM		
	RPM (Engine speed signal)		
	— APP (APP sensor signal)		
	CPP (Clutch pedal signal: MTX)		
	M_GEAR (Manual gear position signal:		
	MTX)		
	GEAR (Gear commanded signal: ATX)  TCM (ATX)		
	TCM (ATX)		
	TR (Transaxle range sensor signal)  INSTRUMENT CLUSTER		
	INSTRUMENT CLUSTER  P. RRAKE, S.W. (Parking brake signal)		
	P_BRAKE_SW (Parking brake signal)     Are all PID values normal?		
	TAIE AII FID VAIUES HUITIAI!		