DTC P2299:00	Accelerator pedal: spring back malfunction				
DETECTION CONDITION	Brake override system operates. Diagnostic support note This is a continuous monitor (other). The check engine light does not illuminate. FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. The DTC is stored in the PCM memory.				
FAIL-SAFE FUNCTION	* F. MTV - 1:10				
POSSIBLE CAUSE	Note If the brake override system operates, the PCM detects DTC P2299:00. Driver depresses accelerator and brake pedals simultaneously (during braking operation using left foot) Accelerator pedal is pressed in by object such as floor mat Accelerator pedal sticking APP sensor signal malfunction APP sensor malfunction Related connector or terminals malfunction Related wiring harness malfunction Brake switch signal malfunction Brake switch malfunction Related connector or terminals malfunction Related wiring harness malfunction Related wiring harness malfunction Brake pedal malfunction (increase in play due to joint pin wear) PCM malfunction				
SYSTEM WIRING DIAGRAM	_				

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY		Service Information.
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.
	Is any related Service Information available?	No	Go to the next step.
2	VERIFY DTC REPEATABILITY	Yes	Go to the next step.
	Clear the DTC from the PCM memory using the M-	No	DTC troubleshooting completed.
	MDS.		• Explain to the customer that P2299:00 is stored by the
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G		brake override system operation.
	2.0].)		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)		
	Is the same DTC present?		
3	VERIFY VEHICLE USE CONDITION	Yes	There is a malfunction in a related floor mat
	Verify the vehicle use condition.		• Explain to the customer that the floor mat may prevent
	The floor mat is doubled over		the accelerator pedal from springing back after release,
	The floor mat is spread against the accelerator		then go to Step 11.
	pedal		There is a malfunction in the pedal operation
	The accelerator and brake pedals are being		Give the customer advice on how to depress the
	depressed simultaneously		accelerator and brake pedals while driving the vehicle,
	• Are any of the conditions above applicable to vehicle		then go to Step 11.
	use condition?	No	Go to the next step.
4	INSPECT APP SENSOR	Yes	Replace the accelerator pedal, then go to Step 11.
	Is the condition of the accelerator pedal one of the		(See ACCELERATOR PEDAL REMOVAL/
	following?	.	INSTALLATION [SKYACTIV-G 2.0].)
	Accelerator pedal sticking has occurred when	No	Go to the next step.
	operated		
	There is evidence of accelerator pedal		
	disassembly		

STEP	INSPECTION		ACTION
5	VERIFY CURRENT INPUT SIGNAL STATUS OF APP	Yes	Go to Step 7.
	SENSOR	No	Go to the next step.
	 Access the APP PID using the M-MDS. 		
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G		
	2.0].)		
	• Is the value for PID APP 0 % when the accelerator		
	pedal is not depressed?		
	 Does the value for PID APP change when the accelerator pedal is continually depressed? 		
6	INSPECT APP SENSOR RELATED WIRING	Yes	Repair or replace the malfunctioning part according to
	HARNESS AND CONNECTOR		the inspection results, then go to Step 11.
	• Inspect the wiring harness related to the APP sensor	No	APP sensor malfunction.
	for connector disconnection, short circuit, and poor		Replace the accelerator pedal, then go to Step 11.
	contact.		(See ACCELERATOR PEDAL REMOVAL/
	Is there any malfunction?		INSTALLATION [SKYACTIV-G 2.0].)
7	VERIFY CURRENT INPUT SIGNAL STATUS OF	Yes	Go to Step 10.
	BRAKE SWITCH	No	Go to the next step.
	Access the following PIDs using the M-MDS: ON BOARD BIACHOSTIC TEST ISIN ACTIVED.		
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].)		
	BOO		
	— BPA		
	Are all PIDs normal?		
8	INSPECT BRAKE SWITCH	Yes	Replace the brake switch, then go to Step 11.
	Inspect the brake switch.		(See BRAKE PEDAL REMOVAL/INSTALLATION
	(See BRAKE SWITCH INSPECTION.)		[R.H.D.].)
	Is there any malfunction?		(See BRAKE PEDAL REMOVAL/INSTALLATION
			[L.H.D.].)
	INODEST DRAKE BEDAL DLAV AMOUNT	No	Go to the next step.
9	INSPECT BRAKE PEDAL PLAY AMOUNT Inspect the brake pedal play amount.	Yes	Inspect the wiring harness related to the brake switch for connector disconnection, short circuit, and poor contact.
	(See BRAKE PEDAL INSPECTION.)		If there is any malfunction:
	• Is the amount of brake pedal play normal?		Repair or replace the malfunctioning part
	The same and a same production of the same pr		according to the inspection results, then go to Step
			11.
		No	Repair or replace the malfunctioning part according to
			the inspection results, then go to Step 11.
10	VERIFY IF A DTC RELATED TO DRIVE-BY-WIRE	Yes	Go to the applicable DTC inspection.
	CONTROL IS DETECTED	NI-	(See DTC TABLE [SKYACTIV-G 2.0].)
	 Perform the KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].) 	No	It is possible that the accelerator and brake pedals have been depressed simultaneously. (during braking
	• Is a DTC related to the drive-by-wire control present?		operation using left foot)
	a 5 to totaled to the drive by who control proscrit:		Go to the next step.
11	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1.
	• Make sure to reconnect all disconnected connectors.		If the malfunction recurs, replace the PCM.
	Clear the DTC from the PCM memory using the M-		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
	MDS.		2.0].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G		Go to the next step.
	2.0].)	No	Go to the next step.
	• Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)		
12	• Is the same DTC present? VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
'2	• Perform the "AFTER REPAIR PROCEDURE".	163	(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G	No	DTC troubleshooting completed.
	2.0].)	-	
	Are any DTCs present?		
	J = F		