DTC P2299:00	Accelerator pedal: spring back malfunction			
DETECTION	When under the following conditions it is detected that the brake pedal is depressed during driving for the specified time*. Racing Engine speed: 875 rpm or more Specified time is 0.6—10 s according to braking force calculated in PCM. 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. DTC is stored in the PCM memory.			
FAIL-SAFE FUNCTION	Not applicable			
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 — Related wiring harness malfunction — Brake pedal malfunction (increase in play due to joint pin wear) PCM malfunction			
SYSTEM WIRING DIAGRAM	Not applicable			

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-D		brake override system operation.
	2.2].)		
	Start the engine and warm it up completely.		
	Perform the DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-		
	D 2.2].)		
	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 10.
	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 the		then go to Step 10.
	vehicle use condition?	No	Go to the next step.

STEP	INSPECTION		ACTION
4	INSPECT APP SENSOR	Yes	Replace the accelerator pedal, then go to Step 10.
4	Is the condition of the accelerator pedal one of the	165	(See ACCELERATOR PEDAL REMOVAL/
	following?		INSTALLATION [SKYACTIV-D 2.2].)
	 Accelerator pedal sticking has occurred when 	No	Go to the next step.
	operated		
	 There is evidence of accelerator pedal disassembly 		
5	VERIFY CURRENT INPUT SIGNAL STATUS OF	Yes	Go to Step 7.
	APP SENSOR	No	Go to the next step.
	 Access the following PIDs using the M-MDS: 		·
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-		
	D 2.2].)		
	— APP1		
	— APP2		
	Does the value for PID APP1, APP2 change when		
	the accelerator pedal is continually depressed?		
6	INSPECT APP SENSOR RELATED WIRING HARNESS AND CONNECTOR	Yes	Repair or replace the malfunctioning part according to the inspection results, then go to Step 10.
	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 10.
	contact.		(See ACCELERATOR PEDAL REMOVAL/
	Is there any malfunction?		INSTALLATION [SKYACTIV-D 2.2].)
7	VERIFY CURRENT INPUT SIGNAL STATUS OF	Yes	It is possible that the accelerator and brake pedals have
	BRAKE SWITCH		been depressed simultaneously. (during braking
	 Access the following PIDs using the M-MDS: 		operation using left foot)
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-		Go to Step 10.
	D 2.2].)	No	Go to the next step.
	— BOO		
	— BPA		
	Are all PIDs normal?		
8	INSPECT BRAKE SWITCH	Yes	Replace the brake switch, then go to Step 10.
	• 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
		No	[L.H.D.].) Go to the next step.
9	INSPECT BRAKE PEDAL PLAY AMOUNT	Yes	Inspect the wiring harness related to the brake switch for
9	Inspect the brake pedal play amount.	165	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 according
	io the amount of brane pedal play herman.		to the inspection results, then go to the next step.
		No	Repair or replace the malfunctioning part according to the
			inspection results, then go to the next step.
10	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1.
	Always 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-D
	MDS.		2.2].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D		Go to the next step.
	2.2].)	No	Go to the next step.
	Start the engine and warm it up completely.		
	• Perform the DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-		
	D 2.2].)		
11	• Is the same DTC present?	Voc	Co to the applicable DTC inspection
11	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE"	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D]	No	(See DTC TABLE [SKYACTIV-D 2.2].) DTC troubleshooting completed.
	2.2].)	No	DTO troubleshooting completed.
	Are any DTCs present?		
	The diff D 100 produit:		