System malfunction location	Headlight leveling actuator circuit malfunction				
Detection condition	Headlight leveling actuator circuit voltage of 3.2 V or less is detected for 5 s or more with the ignition guitabled ON (ongine off or on).				
Fail-safe	switched ON (engine off or on). • The swivel actuator is moved to the center.				
Possible cause	 The headlight leveling actuator is stopped at the position when the malfunction is determined. Front combination light (LH) connector or terminal malfunction Front combination light (RH) connector or terminal malfunction AFS control module connector or terminal malfunction Short to ground in wiring harness between the following terminals: AFS control module terminal P and front combination light (LH) terminal I AFS control module terminal O and front combination light (RH) terminal I AFS control module terminal O and front combination light (RH) terminal F Open circuit in wiring harness between the following terminals: AFS control module terminal P and front combination light (LH) terminal I AFS control module terminal O and front combination light (RH) terminal F AFS control module terminal O and front combination light (RH) terminal I AFS control module terminal O and front combination light (RH) terminal F Headlight leveling actuator malfunction 				
AFS CONT	HEADLIGHT LEVELING ACTUATOR (LH) (FRONT COMBINATION LIGHT (LH))) TROL MODULE F HEADLIGHT LEVELING ACTUATOR (RH) (FRONT COMBINATION LIGHT (RH))) F L HEADLIGHT LEVELING ACTUATOR (RH) (FRONT COMBINATION LIGHT (RH)))				
	TROL MODULE FRONT COMBINATION LIGHT (LH) FRONT COMBINATION LIGHT (RH) SS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR				
O M K P N L	A D G J M B E Z K N C F I L O C F I L O				

Diagnostic Procedure

Step	tic Procedure Inspection		Action
1	INSPECT FRONT COMBINATION LIGHT (LH)	Yes	Go to the next step.
•	CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 7.
	Switch the ignition to off.		The second secon
	Disconnect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE		
	1 ,		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5		
	(WITHOUT i-stop)].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Disconnect the front combination light (LH)		
	connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		
2	INSPECT FRONT COMBINATION LIGHT (RH)	Yes	Go to the next step.
	CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 7.
	Disconnect the front combination light (RH)		
	connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	• Is the connector normal?		
3	INSPECT AFS CONTROL MODULE	Yes	Go to the next step.
-	CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 7.
	Disconnect the AFS control module connector.	110	Tropan of replace the confidence, their go to ctop 7.
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		
4	INSPECT HEADLIGHT LEVELING ACTUATOR	Yes	Repair or replace the wiring harness which is shorted to
4	CIRCUIT FOR SHORT TO GROUND	165	ground, then go to Step 7.
		NIa	·
	Verify that the following connectors are disconnected	No	Go to the next step.
	disconnected.		
	Front combination light (LH) Front combination light (DL)		
	Front combination light (RH) ACC control module		
	AFS control module		
	Inspect for continuity between the following		
	terminals (vehicle wiring harness side) and		
	body ground.		
	 Front combination light (LH) terminal I 		
	 Front combination light (LH) terminal F 		
	 Front combination light (RH) terminal I 		
	 Front combination light (RH) terminal F 		
	Is there continuity?		

Step	Inspection		Action
5	INSPECT HEADLIGHT LEVELING ACTUATOR	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness which has an open
	Verify that the following connectors are disconnected.		circuit, then go to Step 7.
	Front combination light (LH)		
	Front combination light (RH)		
	AFS control module		
	Inspect the wiring harness between the		
	following terminals (vehicle wiring harness side)		
	for continuity.		
	AFS control module terminal P and front		
	combination light (LH) terminal I		
	AFS control module terminal O and front applying tight (LH) terminal F		
	combination light (LH) terminal F — AFS control module terminal P and front		
	combination light (RH) terminal I		
	AFS control module terminal O and front		
	combination light (RH) terminal F		
	• Is there continuity?		
6	INSPECT HEADLIGHT LEVELING ACTUATOR	Yes	Go to the next step.
	OPERATION	No	Replace the front combination light, then go to the next
	Perform the headlight leveling actuator		step.
	operation check mode. (See HEADLIGHT LEVELING ACTUATOR		(See FRONT COMBINATION LIGHT REMOVAL/ INSTALLATION.)
	OPERATION CHECK MODE [ADAPTIVE		INSTALLATION.)
	FRONT LIGHTING SYSTEM (AFS)].)		
	Does the headlight leveling actuator operate		
	normally?		
7	VERIFY THAT REPAIRS HAVE BEEN	Yes	Repeat the inspection from Step 1.
	COMPLETED		• If the malfunction recurs, replace the AFS control module,
	Reconnect all the disconnected connectors.		then go to the next step.
	Reconnect the disconnected negative battery cable.		(See ADAPTIVE FRONT LIGHTING SYSTEM (AFS) CONTROL MODULE REMOVAL/INSTALLATION.)
	(See NEGATIVE BATTERY CABLE	No	Go to the next step.
	DISCONNECTION/CONNECTION	110	GO to the next step.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5		
	(WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[SKYACTIV-D 2.2].)		
	Clear the AFS control module DTCs using the		
	M-MDS.		
	(See CLEARING DTC [ADAPTIVE FRONT		
	LIGHTING SYSTEM (AFS)].)		
	• Switch the ignition ON (engine off or on) and		
	wait for 5 s or more . • Perform the DTC inspection for the AFS control		
	module using the M-MDS.		
	(See DTC INSPECTION [ADAPTIVE FRONT		
	LIGHTING SYSTEM (AFS)].)		
	• Is DTC B1041:14 displayed?		
8	VERIFY IF OTHER DTCs DISPLAYED	Yes	Repair the malfunctioning part according to the applicable
	Are any other DTCs displayed?		DTC troubleshooting.
			(See DTC TABLE [ADAPTIVE FRONT LIGHTING
			SYSTEM (AFS)].)
		No	DTC troubleshooting completed.