NO.9 DUAL A/C CONTROL DOES NOT OPERATE [FULL-AUTO AIR CONDITIONER]

id0703c1812300

9	Dual A/C control function does not operate
DESCRIPTION	Driver or passenger side temperature control dial does not operate individually
DESCRIPTION	Temperature control operates normally except for dual A/C control function
	Driver-side air mix door malfunction (stuck)
	Passenger-side air mix door malfunction (stuck)
	Driver-side air mix actuator malfunction
	Passenger-side air mix actuator malfunction
	Driver-side air mix actuator position sensor malfunction
	Passenger-side air mix actuator position sensor malfunction
POSSIBLE	• Open, short circuit in wiring or poor connection between climate control unit and driver-side air mix actuator
CAUSE	Open, short circuit in wiring or poor connection between climate control unit and passenger-side air mix actuator
	Open, short circuit in wiring or poor connection between climate control unit and driver-side air mix actuator position sensor
	Open, short circuit in wiring or poor connection between climate control unit and passenger-side air mix actuator position sensor
	Climate control unit malfunction

When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while
doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If
there is a problem, inspect to make sure connectors, terminals and wiring harness are connected correctly and
undamaged.

Diagnostic procedure

STEP	INSPECTION		ACTION
1	CHECK SYMPTOM	Yes	Go to the next step.
	Turn on the A/C.	No	Go to Step 12.
	 Perform the dual A/C control function for driver and passenger side individually. Is it either of cannot the temperature control on driver side or passenger side? 		
2	INSPECT TO SEE WHETHER MALFUNCTION	Yes	Go to Step 8.
_	IS IN AIR MIX DOOR OR ELSEWHERE	No	Go to the next step.
	• Turn on the A/C.		'
	Change temperature control for suspect side seat at the dual mode.		
	Does the suspect side air mix door move smoothly?		
3	INSPECT AIR MIX ACTUATOR	Yes	Go to the next step.
	Inspect the suspect side air mix actuator.Is the air mix actuator normal?	No	Replace the suspect air mix actuator, then go to Step 15.

STEP	INSPECTION		ACTION
4*	INSPECT AIR MIX ACTUATOR (MOTOR)	Yes	Repair or replace the wiring harness for a possible short to
	CIRCUIT FOR SHORT TO GROUND	103	ground, then go to the Step 15.
	Disconnect the negative battery cable.	No	Go to the next step.
	(See NEGATIVE BATTERY CABLE	INO	Go to the flext step.
	· ·		
	DISCONNECTION/CONNECTION		
	[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].)		
	Disconnect the climate control unit connector.		
	Inspect for continuity between the following		
	terminals (wiring harness-side) and body		
	ground:		
	L.H.D.		
	 Climate control unit terminal 2E (driver-side 		
	motor)		
	 Climate control unit terminal 2G (driver-side 		
	motor)		
	Climate control unit terminal 2F		
	(passenger-side motor)		
	Climate control unit terminal 2H		
	(passenger-side motor)		
	R.H.D.		
	Climate control unit terminal 2F (driver-side)		
	motor)		
	Climate control unit terminal 2H (driver-side)		
	· ·		
	motor)		
	Climate control unit terminal 2E		
	(passenger-side motor)		
	Climate control unit terminal 2G		
	(passenger-side motor)		
	• Is there continuity?		
5*	INSPECT AIR MIX ACTUATOR (MOTOR)	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Air mix actuator and climate control unit		circuit, then go to Step 15.
	connectors are disconnected.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	L.H.D.		
	 Climate control unit terminal 2E— driver- 		
	side air mix actuator terminal B		
	 Climate control unit terminal 2G — driver- 		
	side air mix actuator terminal C		
	 Climate control unit terminal 2F— 		
	passenger-side air mix actuator terminal C		
	 Climate control unit terminal 2H — 		
	passenger-side air mix actuator terminal B		
	R.H.D.		
	 Climate control unit terminal 2F — driver- 		
	side air mix actuator terminal C		
	 Climate control unit terminal 2H — driver- 		
	side air mix actuator terminal B		
	 Climate control unit terminal 2E — 		
	passenger-side air mix actuator terminal B		
	Climate control unit terminal 2G—		
	passenger-side air mix actuator terminal C		
	• Is there continuity?		
			<u>I</u>

STEP	INSPECTION		ACTION
6*	INSPECT AIR MIX ACTUATOR (MOTOR)	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	Air mix actuator and climate control unit	140	power supply, then go to Step 15.
	connectors are disconnected.		power suppry, then go to etcp to:
	Connect the negative battery cable.		
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[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].)		
	• Switch the ignition ON (engine off or on).		
	Measure the voltage at the following terminals		
	(wiring harness-side):		
	L.H.D.		
	Climate control unit terminal 2E (driver-side)		
	motor)		
	Climate control unit terminal 2G (driver-side)		
	motor)		
	Climate control unit terminal 2F		
	(passenger-side motor)		
	Climate control unit terminal 2H		
	(passenger-side motor)		
	R.H.D.		
	Climate control unit terminal 2F (driver-side)		
	motor)		
	Climate control unit terminal 2H (driver-side)		
	motor)		
	Climate control unit terminal 2E		
	(passenger-side motor)		
	Climate control unit terminal 2G		
	(passenger-side motor)		
	• Is the voltage 0 V ?		
7	INSPECT AIR MIX DOOR	Yes	Replace the climate control unit, then go to Step 15.
	Inspect the suspect side air mix door.		(See CLIMATE CONTROL UNIT REMOVAL/
	 — Is the fan free of interfere with the suspect 		INSTALLATION [FULL-AUTO AIR CONDITIONER].)
	side A/C unit case?	No	Remove the obstruction or replace the suspect side A/C unit
	 — Is the fan free of foreign material and 		case, then go to Step 15.
	obstruction?		
	Is the air mix door normal?		
8*	INSPECT AIR MIX ACTUATOR POSITION	Yes	Go to the next step.
	SENSOR	No	Replace the suspect air mix actuator, then go to Step 15.
	Inspect the suspect side air mix actuator		
	position sensor.		
	• Is the air mix actuator position sensor normal?		

STEP	INSPECTION		ACTION
9*	INSPECT AIR MIX ACTUATOR (POSITION	Yes	Repair or replace the wiring harness for a possible short to
	SENSOR) CIRCUIT FOR SHORT TO GROUND		ground, then go to the Step 15.
	Disconnect the negative battery cable.	No	Go to the next step.
	(See NEGATIVE BATTERY CABLE		
	DISCONNECTION/CONNECTION		
	[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].)		
	Disconnect the climate control unit connector.		
	Inspect for continuity between the following		
	terminals (wiring harness-side) and body		
	ground:		
	L.H.D.		
	Climate control unit terminal 1N (driver-side		
	position sensor) — Climate control unit terminal 1P		
	(passenger-side position sensor)		
	— Climate control unit terminal 1H (position)		
	sensor power supply)		
	Climate control unit terminal 1X (position)		
	sensor ground)		
	R.H.D.		
	Climate control unit terminal 1P (driver-side)		
	position sensor)		
	Climate control unit terminal 1N		
	(passenger-side position sensor)		
	Climate control unit terminal 1H (position)		
	sensor power supply)		
	Climate control unit terminal 1X (position)		
	sensor ground)		
	Is there continuity?		

STEP	PINSPECTION		ACTION
10*	INSPECT AIR MIX ACTUATOR (POSITION	Yes	Go to the next step.
	SENSOR) CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Air mix actuator and climate control unit		circuit, then go to Step 15.
	connectors are disconnected.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	L.H.D.		
	 Climate control unit terminal 1N — driver- 		
	side air mix actuator terminal F		
	Climate control unit terminal 1P —		
	passenger-side air mix actuator terminal F		
	 Climate control unit terminal 1H — driver- 		
	side air mix actuator terminal G		
	 Climate control unit terminal 1H — 		
	passenger-side air mix actuator terminal E		
	 Climate control unit terminal 1X — driver- 		
	side air mix actuator terminal E		
	 Climate control unit terminal 1X — 		
	passenger-side air mix actuator terminal G		
	R.H.D.		
	 Climate control unit terminal 1P — driver- 		
	side air mix actuator terminal F		
	 Climate control unit terminal 1N — 		
	passenger-side air mix actuator terminal F		
	Climate control unit terminal 1H — driver-		
	side air mix actuator terminal E		
	Climate control unit terminal 1H —		
	passenger-side air mix actuator terminal G		
	Climate control unit terminal 1X — driver-		
	side air mix actuator terminal G		
	Climate control unit terminal 1X —		
	passenger-side air mix actuator terminal E		
	Is there continuity?		

INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO POWER SUPPLY Air mix actuator and climate control unit connectors are disconnected. Connect the negative battery cable. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION SIXYACTIV-0.2.0, SKYACTIV-0.2.5. (See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION SIXYACTIV-0.2.5. (WITHOUT i-stop)). (See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION SIXYACTIV-0.2.2.). SKYACTIV-0.2.2.) Switch the ignition ON (engine off or on). Measure the voltage of st the following terminals (wring harness-side): L.H.D. Climate control unit terminal 1N (driver-side position sensor) Climate control unit terminal 1H (position sensor ground) R.H.D. Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (position sensor ground) Climate control unit terminal 1N (position sensor power supply) Climate control unit terminal 1N (pos	STEP	INSPECTION		ACTION
SENSOR) CIRCUIT FOR SHORT TO POWER SUPPLY * Air mix actuator and climate control unit connectors are disconnected. * Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SYYACTIV-6 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SYYACTIV-6 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SYYACTIV-6 2.5) (WITHOUT i-stoppl)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SYYACTIV-6 2.5) (WITHOUT i-stoppl)) * Climate control unit terminal 1 N (driver-side position sensor) * Climate control unit terminal 1 I (position sensor power supply) * Climate control unit terminal 1 I (position sensor ground) * Is the voltage 0 V? * INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GNOUND (SYYACTIV-6 2.6) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * SINSOR (CIRCUIT FOR SHORT TO GROUND (SYYACTIV-6 2.6) (SYACTIV-6 2.6) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYYACTIV-6 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYXACTIV-6 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYXACTIV-6 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYXACTIV-6 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYXACTIV-6 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYXACTIV-6 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) * (SYACTIV-6 2.0, SYXACTIV-6 2.5) (SYACTIV-6			Yes	
SUPPLY Air mix actuator and climate control unit connectors are disconnected. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION (SKYACTIV-G 2.2)) - Switch the ignition ON (engine off or on). - Measure the voltage at the following terminals (wiring harness-side): L.H.D. - Dilmate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1Y (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power surply) - Climate control unit terminal 1X (position sensor power surply) - Climate control unit terminal 1X (position sensor power surply) - Climate control unit terminal 1X (position sensor power surply) - Climate control unit terminal 1X (position sensor power surply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply)				
Air mix actuator and climate control unit connectors are disconnected. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.6)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0, SKYACTIV-G 2.5) (WITHOUT - stop))) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.1) Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harness-side): L.H.D. — Climate control unit terminal 1N (driver-side position sensor) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.5), (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION (S		,	110	
connectors are disconnected. - Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV.G. 2.0, SKYACTIV.G. 2.5)) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV.G. 2.0, SKYACTIV.G. 2.5) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV.D. 2.1). Switch the ignition ON (engine off or on). - Measure the voltage at the following terminals (wiring harness-side): L.H.D. - Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1Y (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply)				power suppry, their go to etcp re.
- Connect the negative battery cable. (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.0, SKYACTIV-Q 2.5).) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.5 (WITHOUT istop)].) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.5) - Switch the ignition ON (engine off or on) Measure the voltage at the following terminals (wiring harness-side): L.H.D. - Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1Y (position sensor power supply) - Climate control unit terminal 1Y (position sensor power supply) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 1X (position sensor power supply) - (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.0, SKYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.0, SKYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-Q 2.2, SWYACTIV-Q 2.5) (See NECATIVE BATTERY CABLE				
(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2, SKYACTIV-G 2, S) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2, SKYACTIV-G 2, S) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2, SKYACTIV-G 2, S) (WITHOUT is-bipil) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2, S) (With the ignition ON (engine off or on). - Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 11 (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1N (position sensor power supply)				
DISCONNECTION/CONNECTION SKYACTIV-Q = 2,0 SKYACTIV-G = 2,5 , (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION SKYACTIV-Q = 2,0 SKYACTIV-G = 2,5 (WITHOUT stop) , (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION SKYACTIV-Q = 2,0 SKYACTIV-G = 2,5 (WITHOUT stop) , (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION SKYACTIV-Q = 2,0 SKYACTIV-G = 2,5 (LH_D) — Climate control unit terminal 1N (driver-side position sensor) — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate control unit terminal 1 (priver-side position sensor) — Climate contro				
SKYACTIV-G 2.0, SKYACTIV-G 2.5 . See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop) .) See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION SKYACTIV-D 2.2 . Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harness-side): LH.D.		,		
(See NEGATIVE BATTERY CABLE DISCONNECTION(CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT istop)], (See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION [SKYACTIV-D 2.2], - Switch the ignition ON (engine off or on) Measure the voltage at the following terminals (wiring harness-side): L.H.D Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1P (passenger-side position sensor) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) R.H.D Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1N (position sensor ground) - Is the voltage 0 v? 12* MSPECT AIR MIX ACTUATOR (POSITION SENSOR) (CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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-G 2.0, SKYACTIV-G 2.5 (WITHOUT I-stop)]) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2], Disconnect the climate control unit connector Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1X (position sensor grower supply) - Climate control unit terminal 1 (position sensor power supply) - Climate control unit terminal 1 (position sensor power supply) - Climate control unit terminal 1 (position sensor grown)				
DISCONNECTIONCONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTIONCONNECTION [SKYACTIV-D 2.2]). Switch the ignition ON (engine off or on). •Measure the voltage at the following terminals (wiring harmess-side): LH.D. — Climate control unit terminal 1N (driver-side position sensor) — Climate control unit terminal 1P (passenger-side position sensor) — Climate control unit terminal 1Y (position sensor) owner supply) — Climate control unit terminal 1N (position sensor) owner supply) — Climate control unit terminal 1N (position sensor) — Climate control unit terminal 1N (position sensor power supply) — Climate control unit terminal 1N (position sensor power supply) — SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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], Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1N (position sensor opower supply) — Climate control unit terminal 1N (position sensor opower supply) — Climate control unit terminal 1N (position sensor opower supply) — Climate control unit terminal 1N (position sensor opower supply) — Climate control unit terminal 1N (position sensor opower supply)				
[SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT I -stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-D 2.2].) - Switch the ignition ON (engine off or on) Measure the voltage at the following terminals (wiring harmess-side): L.H.D Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1H (position sensor ground) R.H.D Climate control unit terminal 1N (position sensor ground) R.H.D Climate control unit terminal 1N (position sensor ground) R.H.D Climate control unit terminal 1N (position sensor ground) - Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR). CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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], Disconnect the climate control unit connector Inspect for continuity between the following terminals (witing harness-side) and body ground: - Climate control unit terminal 1N (position sensor grower supply) - Climate control unit terminal 1N (position sensor grower supply) - Climate control unit terminal 1N (position sensor grower supply) - Climate control unit terminal 1N (position sensor grower supply) - Climate control unit terminal 1N (position sensor grower supply) - Climate control unit terminal 1N (position sensor grower supply) - Climate control unit terminal 1N (position sensor grower supply)		, ·		
(WITHOUT I-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-O-2.L) Switch the ignition ON (engine off or on). *Measure the voltage at the following terminals (wiring harmess-side): L.H.D Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1P (passenger-side position sensor) - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) R.H.D Climate control unit terminal 1N (position sensor ground) R.H.D Climate control unit terminal 1N (position sensor ground) R.H.D Climate control unit terminal 1N (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) - Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5), (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.0, SKYACTIV-G 2.5, (WITHOUT - stopi)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (SKYACTIV-G 2.5, SKYACTIV-G 2.5, (WITHOUT - stopi)].				
(See NEGATIVE BATTERY CABLE DISCONNECTION (SKYACTIV-D 2.2].) * Switch the ignition ON (engine off or on). * Measure the voltage at the following terminals (wiring harness-side): * L.H.D. * Climate control unit terminal 1N (driver-side position sensor) * Climate control unit terminal 1P (position sensor power supply) * Climate control unit terminal 1Y (position sensor ground) * R.H.D. * Climate control unit terminal 1P (driver-side position sensor) * Climate control unit terminal 1P (driver-side position sensor) * Climate control unit terminal 1P (driver-side position sensor) * Climate control unit terminal 1P (position sensor ground) * Is the voltage 0 V? * INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND * Disconnect the negative battery cable. * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0, SKYACTIV-G 2.5) * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0, SKYACTIV-G 2.5) * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0, SKYACTIV-G 2.5) * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0, SKYACTIV-G 2.5) * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0, SKYACTIV-G 2.5) * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0, SKYACTIV-G 2.5) * (WITHOUT i-stop)].) * (See NEGATIVE BATTERY CABLE DISCONNECTION) * (SKYACTIV-G 2.0) * (SKYACTIV-		,		
DISCONNECTION/CONNECTION [SKYACTIV-0 2 2], * Switch the ignition ON (engine off or on). * Measure the voltage at the following terminals (wiring harness-side): L.H.D. — Climate control unit terminal 1N (driver-side position sensor) — Climate control unit terminal 1P (passenger-side position sensor) — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor opower supply) — Climate control unit terminal 1N (driver-side position sensor) — Climate control unit terminal 1N (position sensor opower supply) — Climate control unit terminal 1N (position sensor opower supply) — Climate control unit terminal 1X (position sensor opower supply) — Climate control unit terminal 1X (position sensor opower supply) 12* Inspect for an MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-0 2 0, SKYACTIV-6 2 5, KYACTIV-6 2 5, KY		` '-'		
SKYACTIV-D 2.2) Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harmess-side): L.H.D.		,		
Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harness-side): L.H.D. — Climate control unit terminal 1P (driver-side position sensor) — Climate control unit terminal 1H (position sensor open supply) — Climate control unit terminal 1P (driver-side position sensor power supply) — Climate control unit terminal 1P (driver-side position sensor) — Climate control unit terminal 1P (driver-side position sensor) — Climate control unit terminal 1N (position sensor power supply) — Climate control unit terminal 1N (position sensor power supply) — Climate control unit terminal 1X (position sensor or ground) • Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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)].) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply)				
Measure the voltage at the following terminals (wiring harness-side): L.H.D. Climate control unit terminal 1N (driver-side position sensor) Climate control unit terminal 1P (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) R.H.D. Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 11 (position sensor power supply) Climate control unit terminal 11 (position sensor power supply) Climate control unit terminal 11 (position sensor power supply) Climate control unit terminal 11 (position sensor power supply) 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.6) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply)				
(wiring harness-side): L.H.D. — Climate control unit terminal 1N (driver-side position sensor) — Climate control unit terminal 1P (passenger-side position sensor) — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1N (position sensor ground) R.H.D. — Climate control unit terminal 1P (driver-side position sensor) — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground) • Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (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-G 2.1) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply) — Climate control unit terminal 1 H (position sensor power supply)				
L.H.D. Climate control unit terminal 1N (driver-side position sensor) Climate control unit terminal 1P (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor prower supply) Climate control unit terminal 1X (position sensor ground) 1s the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5) (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.2).) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor power supply)		Measure the voltage at the following terminals		
- Climate control unit terminal 1N (driver-side position sensor) - Climate control unit terminal 1P (passenger-side position sensor) - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) R.H.D Climate control unit terminal 1P (driver-side position sensor) - Climate control unit terminal 1N (passenger-side position sensor) - Climate control unit terminal 1H (position sensor ground) - Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) (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-G 2.1) - Disconnect the climate control unit connector Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1 H (position sensor power supply) - Climate control unit terminal 1 H (position sensor power supply) - Climate control unit terminal 1 H (position sensor power supply)		(wiring harness-side):		
position sensor) Climate control unit terminal 1P (passenger-side position sensor) Climate control unit terminal 1H (position sensor ground) R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor power supply) Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5.5) (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.2].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1X (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)		L.H.D.		
- Climate control unit terminal 1P (passenger-side position sensor) - Climate control unit terminal 1H (position sensor) power supply) - Climate control unit terminal 1X (position sensor ground) R.H.D Climate control unit terminal 1P (driver-side position sensor) - Climate control unit terminal 1N (passenger-side position sensor) - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) - Is the voltage 0 V? 12* INPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) - Disconnect the climate control unit connector Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1X (position sensor power supply) - Climate control unit terminal 1X (position sensor ground)		 Climate control unit terminal 1N (driver-side 		
(passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-BATTERY CABLE DISCONNECTION/CONNECTION (SKYACTIV-D 2.2).) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)		position sensor)		
- Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) R.H.D Climate control unit terminal 1P (driver-side position sensor) - Climate control unit terminal 1N (passenger-side position sensor) - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) - Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION (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), - Disconnect the climate control unit connector Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground)		 Climate control unit terminal 1P 		
sensor power supply) Climate control unit terminal 1X (position sensor ground) R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [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].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)		(passenger-side position sensor)		
sensor power supply) Climate control unit terminal 1X (position sensor ground) R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [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].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)		 Climate control unit terminal 1H (position 		
- Climate control unit terminal 1X (position sensor ground) R.H.D Climate control unit terminal 1P (driver-side position sensor) - Climate control unit terminal 1N (passenger-side position sensor) - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) • Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5], (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5], (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2],) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground)		· ·		
sensor ground) R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor ground) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground)				
R.H.D. Climate control unit terminal 1P (driver-side position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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-G 2.2].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: Climate control unit terminal 1X (position sensor ground) Climate control unit terminal 1X (position sensor ground)				
position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [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].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground)				
position sensor) Climate control unit terminal 1N (passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION) [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].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground)		 Climate control unit terminal 1P (driver-side 		
- Climate control unit terminal 1N (passenger-side position sensor) - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) - Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) - Disconnect the climate control unit connector Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1H (position sensor ground) - Climate control unit terminal 1X (position sensor ground)				
(passenger-side position sensor) Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) Is the voltage 0 V? INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness for a possible short to ground, then go to the Step 15. No Go to the next step.				
- Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground) - Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND - Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) - Disconnect the climate control unit connector Inspect for continuity between the following terminals (wiring harness-side) and body ground: - Climate control unit terminal 1H (position sensor power supply) - Climate control unit terminal 1X (position sensor ground)				
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- Climate control unit terminal 1X (position sensor ground) • Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
sensor ground) • Is the voltage 0 V? 12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
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12* INSPECT AIR MIX ACTUATOR (POSITION SENSOR) CIRCUIT FOR SHORT TO GROUND • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)		,		
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[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].) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
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DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the climate control unit connector. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
 [SKYACTIV-D 2.2].) Disconnect the climate control unit connector. Inspect for continuity between the following terminals (wiring harness-side) and body ground: Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground) 		· ·		
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Inspect for continuity between the following terminals (wiring harness-side) and body ground: Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground)		, <u> </u>		
terminals (wiring harness-side) and body ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
ground: — Climate control unit terminal 1H (position sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor ground)		, ,		
sensor power supply) — Climate control unit terminal 1X (position sensor ground)				
Climate control unit terminal 1X (position sensor ground)				
sensor ground)				
• Is there continuity?		• Is there continuity?		

INSPECTION NSPECT AIR MIX ACTUATOR (POSITION		ACTION
NOTECT AIR MIX ACTUATOR (FUSITION	Yes	Go to the next step.
SENSOR) CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
Air mix actuator and climate control unit		circuit, then go to Step 15.
		on oak, then go to otop To.
. •		
· -		
	Vec	Go to the next step.
		Repair or replace the wiring harness for a possible short to
SUPPLY		power supply, then go to the next step.
Air mix actuator and climate control unit		points: outperfy, anomy go to anomorphism
connectors are disconnected.		
Connect the negative battery cable.		
·		
·		
(See NEGATIVE BATTERY CABLE		
DISCONNECTION/CONNECTION		
Switch the ignition ON (engine off or on).		
Climate control unit terminal 1H (position)		
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· · · · · · · · · · · · · · · · · · ·		
	Yes	Troubleshooting completed. Explain repairs to customer.
DOES NOT RECUR AFTER REPAIR		Recheck malfunction symptoms, then repeat from Step 1 if
		malfunction recurs.
driver seat and passenger seat?		
	connectors are disconnected. Inspect for continuity between the following terminals (wiring harness-side): L.H.D. — Climate control unit terminal 1H — driverside air mix actuator terminal G — Climate control unit terminal 1H — passenger-side air mix actuator terminal E — Climate control unit terminal 1X — driverside air mix actuator terminal E — Climate control unit terminal 1X — passenger-side air mix actuator terminal G R.H.D. — Climate control unit terminal 1H — driverside air mix actuator terminal E — Climate control unit terminal 1H — driverside air mix actuator terminal G — Climate control unit terminal 1X — passenger-side air mix actuator terminal G — Climate control unit terminal 1X — driverside air mix actuator terminal G — Climate control unit terminal 1X — passenger-side air mix actuator terminal E Is there continuity? NSPECT AIR MIX ACTUATOR (POSITION ENSOR) CIRCUIT FOR SHORT TO POWER SUPPLY Air mix actuator and climate control unit connectors are disconnected. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harness-side): — Climate control unit terminal 1H (position sensor ground) Is the voltage 0 V? CONFIRM THAT MALFUNCTION SYMPTOMS DOES NOT RECUR AFTER REPAIR Does the temperature adjust individually for	connectors are disconnected. Inspect for continuity between the following terminals (wiring harness-side): L.H.D. Climate control unit terminal 1H — driverside air mix actuator terminal G Climate control unit terminal 1H — passenger-side air mix actuator terminal E Climate control unit terminal 1X — driverside air mix actuator terminal E Climate control unit terminal 1X — passenger-side air mix actuator terminal G R.H.D. Climate control unit terminal 1H — driverside air mix actuator terminal E Climate control unit terminal 1H — driverside air mix actuator terminal G Climate control unit terminal 1X — driverside air mix actuator terminal G Climate control unit terminal 1X — driverside air mix actuator terminal G Climate control unit terminal 1X — passenger-side air mix actuator terminal E Is there continuity? WSPECT AIR MIX ACTUATOR (POSITION SIENSOR) CIRCUIT FOR SHORT TO POWER SUPPLY Air mix actuator and climate control unit connectors are disconnected. Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [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].) Switch the ignition ON (engine off or on). Measure the voltage at the following terminals (wiring harness-side): Climate control unit terminal 1H (position sensor power supply) Climate control unit terminal 1X (position sensor power supply) Climate control unit terminal 1X (position sensor power supply) Convernmental 1A (position sensor ground) Is the voltage 0 V? CONFIRM THAT MALFUNCTION SYMPTOMS No SONT RECUR AFTER REPAIR Does the temperature adjust individually for