CONTROL SYSTEM DEVICE AND CONTROL RELATIONSHIP CHART [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

×: Applicable

BARO sensor Power brake unit vacuum sensor																ſ	1	1
Input device	ltem	MAIN RELAY CONTROL	DRIVE-BY-WIRE CONTROL	HYDRAULIC VARIABLE VALVE TIMING CONTROL	ELECTRIC VARIABLE VALVE TIMING CONTROL	FUEL INJECTION CONTROL	FUEL PUMP CONTROL	HIGH PRESSURE FUEL PUMP CONTROL	ELECTRONIC SPARK ADVANCE CONTROL	PURGE CONTROL	A/F SENSOR HEATER CONTROI HO2S HEATER CONTROL	A/C CUT-OFF CONTROL	ELECTRICAL FAN CONTROL	STARTER CUT-OFF CONTROL	GENERATOR CONTROL	i-stop CONTROL	DC-DC CONVERTER CONTROL	ENGINE OIL CONTROL
APP sensor No.1, No.2	Input device										,			l				
TP sensor No.1, No.2			J							J								1
MAF sensor				<u> </u>					^									
IAT sensor No.1				-	_			-	_				~					
IAT sensor No.2				<u> </u>				<u> </u>							*2			<u> </u>
MAP sensor										×			×		× J			
CKP sensor X																		
Intake CMP sensor																		
Exhaust CMP sensor				×			×	×		×	×	×	×	×	×			×
ECT sensor					×													
Fuel pressure sensor			×	×		×		×	×							×		
BARO sensor Power brake unit vacuum sensor	ECT sensor		×	×	×	×		×	×	×	×	×	×	×	×*3	×		×
Power brake unit vacuum sensor '2 KS KS AF sensor HO2S Refrigerant pressure sensor '4 IG1 relay Brake switch (No.1 signal) Brake switch (No.2 signal) Transaxle range sensor (ATX) CPP switch (MTX) Starter interlock switch (MTX) Clutch stroke sensor (MTX) **2 Refrigerant pressure sensor '4 IG1 relay **	Fuel pressure sensor		×			×	×	×								×		
sensor*2 Ion sensor No.1—No.4 KS A/F sensor HO2S Refrigerant pressure sensor*4 IG1 relay	BARO sensor		×		×	×	×			×			×			×		
Sensor A																		
Inn sensor No.1—No.4	sensor*2															×		
KS AF sensor HO2S Refrigerant pressure sensor*4 IG1 relay Brake switch (No.1 signal) Brake switch (No.2 signal) Transaxle range sensor (ATX) Clutch stroke sensor (MTX) *2 Neutral switch No.2 (MTX)* Neutral switch No.2 (MTX)* Pattery Generator (Stator coil) CAN** CAN** CAN** AF sensor					×	×												
A/F sensor HO2S Refrigerant pressure sensor *4 IG1 relay									×									
HO2S						×				×								
Refrigerant pressure sensor*4 IG1 relay Brake switch (No.1 signal) Transaxle range sensor (ATX) CPP switch (MTX) Starter interlock switch (MTX) Clutch stroke sensor (MTX) *2 Neutral switch No.1 (MTX) Neutral switch No.2 (MTX)*2 Electric variable valve timing motor/driver Baltery GAN*1 A X X X X X X X X X X X X X X X X X X						×												
Sensor*4																		
IG1 relay												×	×					
Brake switch (No.1 signal) Brake switch (No.2 signal) Transaxle range sensor (ATX) CPP switch (MTX) Starter interlock switch (MTX) Clutch stroke sensor (MTX) *2 Neutral switch No.1 (MTX) Returnal switch No.2 (MTX) Electric variable valve timing motor/driver Battery Generator (Stator coil) CAN*1 Throttle valve actuator Electric variable valve timing motor/driver Battery Main relay Throttle valve actuator Electric variable valve timing motor/driver Electric variable valve timing motor/driver Battery Ax Ax Ax Ax Ax Ax Ax Ax Ax A		×		×		×	×		×		×		×	×		×	×	
Brake switch (No.2 signal)			×															
Transaxle range sensor (ATX) x																		
(ATX) X <td></td>																		
CPP switch (MTX)			×			×								×		×		
Starter interlock switch (MTX) Clutch stroke sensor (MTX) *2 Neutral switch No.1 (MTX) Neutral switch No.2 (MTX)*2 Electric variable valve timing motor/driver Battery CAN*1 CAN*1 X X X X X X X X X X X X X	CPP switch (MTX)		×			×			×			×				×		
(MTX) Clutch stroke sensor (MTX) *2 Neutral switch No.1 (MTX) Neutral switch No.2 (MTX)*2 Electric variable valve timing motor/driver Battery CAN*1 CAN*1 Number a substance of the substan	Starter interlock switch																	
*2 Neutral switch No.1 (MTX)														×				
*2 Neutral switch No.1 (MTX)	,																	
Neutral switch No.2 (MTX)*2 Electric variable valve timing motor/driver Battery Generator (Stator coil) CAN*1 V Output device Main relay Throttle valve actuator Electric variable valve timing motor/driver Electric variable valve timing relay OCV X X X X X X X X X X X X X																×		
Electric variable valve timing motor/driver Battery Generator (Stator coil) CAN*1 Number 1 Number 2 Number 3 N	Neutral switch No.1 (MTX)		×			×			×			×				×		
Electric variable valve timing motor/driver Battery Generator (Stator coil) CAN*1 Number 1 Number 2 Number 3 N	Neutral switch No.2 (MTX)*2															×		
motor/driver	Electric variable valve timing																	
Battery					×											×		
Generator (Stator coil)				×			×	×	×	×					×	×		
CAN*1	Generator (Stator coil)		×															
Output device Main relay			×			×	×		×			×	×	×	_× *2	×	×	
Main relay							<u> </u>							L				
Throttle valve actuator		×																
Electric variable valve timing motor/driver Electric variable valve timing relay OCV x x x x x x x x x x x x x x x x x x x			×													×		
motor/driver																		
Electric variable valve timing relay					×	×										×		
relay X X X X X X X X X X X X X X X X X X X																		
OCV ×	9				×											×		
				×														
	Fuel injector No.1—No.4					×										×		

	1		1				1						1				
ltem	MAIN RELAY CONTROL	DRIVE-BY-WIRE CONTROL	HYDRAULIC VARIABLE VALVE TIMING CONTROL	ELECTRIC VARIABLE VALVE TIMING CONTROL	FUEL INJECTION CONTROL	FUEL PUMP CONTROL	HIGH PRESSURE FUEL PUMP CONTROL	ELECTRONIC SPARK ADVANCE CONTROL	PURGE CONTROL	A/F SENSOR HEATER CONTROL HO2S HEATER CONTROL	A/C CUT-OFF CONTROL	ELECTRICAL FAN CONTROL	STARTER CUT-OFF CONTROL	GENERATOR CONTROL	i-stop CONTROL	DC-DC CONVERTER CONTROL	ENGINE OIL CONTROL
Fuel injector relay					×										×		
Fuel pump control module						×											
Fuel pump relay						×											
Spill valve control solenoid																	
valve (High pressure fuel							×										
pump)																	
Ignition coil No.1—No.4								×							×		
Purge solenoid valve									×								
A/F sensor heater										×							
HO2S heater										×							
A/C relay*4											×						
Cooling fan relay No.1, No.2,												×					
No.3																	
Starter relay													×		×		
Generator (Field coil)														×	×		
DC-DC converter*2															×	×	
Engine oil solenoid valve																	×

^{*1 :} TCM (ATX), DSC HU/CM, front body control module (FBCM), rear body control module (RBCM), instrument cluster, start stop unit, EPS control module

*2 : With i-stop system

^{*3 :} Without i-stop system

^{*4 :} With air conditioner