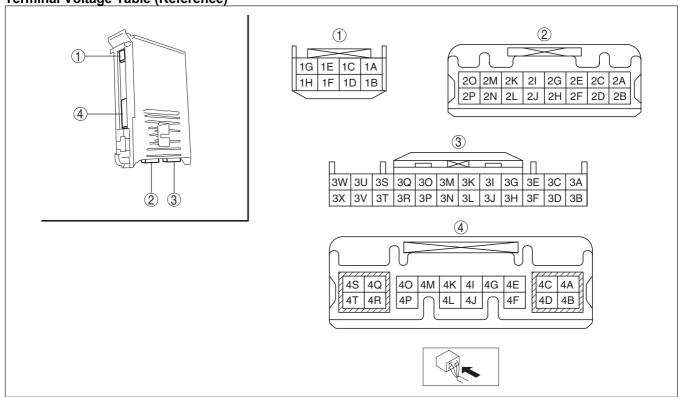
REAR BODY CONTROL MODULE (RBCM) INSPECTION

14004000002200

- 1. 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 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
- 2. Remove the following parts:
 - (1) Trunk board (See TRUNK BOARD REMOVAL/INSTALLATION.)
 - (2) Trunk end trim (See TRUNK END TRIM REMOVAL/INSTALLATION.)
 - (3) Rear scuff plate (LH) (See REAR SCUFF PLATE REMOVAL/INSTALLATION.)
 - (4) Trunk side trim (LH) (See TRUNK SIDE TRIM REMOVAL/INSTALLATION.)
- 3. Remove the rear body control module (RBCM) from the body with the connector connected. (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.)
- 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 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)
- 5. Verify that the voltages of each of the terminals are as indicated in the Terminal Voltage Table (Reference).
 - If the voltage is not as indicated in the table, inspect the parts under Inspection item(s).
 - If the system does not launch normally even though inspection items are normal, specify the location of the malfunction based on the instructions from the on-board diagnostic system and the symptom troubleshooting, and perform repairs.

Terminal Voltage Table (Reference)



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Termin al	Signal	Connected to	Measurement conditions	Voltage (V)	Inspection item(s)
1A ^{*1}	LIN communication ground	Intruder sensor	Under any condition	1.0 or less	Intruder sensor Related wiring harness
1B	Interior light ground	Front map lightRear map lightVanity mirror illumination	Under any condition	1.0 or less	Front map lightRear map lightVanity mirror illuminationRelated wiring harness
1C	_	_	_	_	_
1D	_	_	_	_	_
1E	Interior light control	Front map light	Under any condition	1.0 or less	Front map lightRelated wiring harness

Termin al	Signal	Connected to	Measurement conditions Voltage		/) Inspection item(s)			
1F	_	_						
1G*1	LIN communication	Intruder sensor	nination based on terminal					
1H	Interior light power supply	 Front map light Rear map light Vanity mirror illumination (LH, RH) Intruder sensor*1 	voltage is not possible. Under any condition	B+	 Front map light Rear map light Vanity mirror illumination (LH, RH) Intruder sensor Related wiring harness 			
2A	_	_	-	_	_			
2B	Power supply	D.LOCK 25 A fuse	Under any condition	B+	D.LOCK 25 A fuse Related wiring harness			
2C	Door lock control	Door lock actuator	Lock driver-side door lock switch from unlock Unlock driver-side door lock switch	1.0 or less → B+ → 1.0 or less	Door lock actuator Related wiring harness			
			from lock	1.0 or less				
2D 2E	Door unlock	Door lock	Unlock driver-side door lock switch from lock	1.0 or less $\rightarrow B+ \rightarrow 1.0$ or less	Door lock actuator			
	control	actuator	Lock driver-side door lock switch from unlock	1.0 or less	Related wiring harness			
2F ^{*1}	Theft-deterrent	Front body control module (FBCM)	Connected to M-MDS and using data monitor function, theft-deterrent sound activates	1.0 or less	Front body control module (FBCM)			
ZF .	horn relay control		Connected to M-MDS and using data monitor function, theft-deterrent sound does not activate	B+	Related wiring harness			
2G*2	Double locking system control	Door lock actuator	Press transmitter lock button two times (double locking system operation condition)	B+ → 1.0 or less	Door lock actuator Related wiring harness			
2H ^{*5}	Brake light	Brake light relay	Except above Connect the M-MDS and turn on the "STOP_LMP_CS" using the rear body control module (RBCM) simulation function	1.0 or less	Brake light relay Related wiring harness			
2H °	control	Brake light relay	Connect the M-MDS and turn off the "STOP_LMP_CS" using the rear body control module (RBCM) simulation function	B+				
21	Ignition power	METER1 10 A	Ignition switched ON (engine off)	B+	METER1 10 A fuse			
	supply	fuse	Ignition switched OFF (LOCK)	1.0 or less	Related wiring harness			
2J*5	Brake switch signal	Brake switch Start stop unit	Brake pedal depressed Brake pedal not depressed	B+ 1.0 or less	Brake switch Start stop unit Related wiring harness			
2K*3	Rear fog light power supply	STOP 10 A fuse	Under any condition	B+	STOP 10 A fuse Related wiring harness			
2L		_	_	_	—			
2M	Power supply	R.WIPER 15 A fuse	Under any condition	B+	R.WIPER 15 A fuse Related wiring harness			
2N	_	_	_	_	_			
20	_			_				
2P	Power supply	ROOM 15 A fuse	Under any condition B+		ROOM 15 A fuseRelated wiring harness			
3A*1	LIN communication	Theft-deterrent siren	Terminal used for communication therefore determination based on terminal voltage is not possible.					
3B	Serial communication	Start stop unit	Terminal used for communication therefore determination based on terminal voltage is not possible.					

Termin							
al	Signal	Connected to	Measurement conditions	Voltage (V)	Inspection item(s)		
3C	Fuel sensor ground	Fuel gauge sensor unitFuel gauge sensor unit (sub)	Under any condition 1.0 or less		Fuel gauge sensor unitFuel gauge sensor unit (sub)Related wiring harness		
3D	Serial	Power window	Terminal used for communication the voltage is not possible.	nination based on terminal			
3E	communication —	main switch	voltage is not possible.	_			
3F	Door lock switch signal	Door lock switch	Door lock switch unlocked 1.0 or less Other 4.5 Door lock switch locked 2.2		Door lock switch Related wiring harness		
3G	_	_	—		_		
3H	Driver-side door	Door key	Door key cylinder is turned to unlock side Other	1.0 or less 4.5	Door key cylinder switch		
311	key cylinder switch signal	cylinder switch	Door key cylinder is turned to lock side	2.2	Related wiring harness		
31	Fuel sensor signal	Fuel gauge sensor unit	Inspect the fuel gauge sender unit and related wiring harnesses because the terminal voltage at this terminal cannot be examined. (See FUEL GAUGE SENDER UNIT INSPECTION [2WD].) (See FUEL GAUGE SENDER UNIT INSPECTION [4WD].)				
3J*1	Lock input (lock- link switch	Door lock-link switch	The passenger-side and rear doors are all locked	4.6	Door lock-link switch		
30 '	(passenger's side, rear door))		Among the passenger-side and rear doors, at least one door is unlocked	1.0 or less	Related wiring harness		
3K*4	Fuel sensor signal (sub)	Fuel gauge sensor unit (sub)	Inspect the fuel gauge sender unit and related wiring harnesses because the terminal voltage at this terminal cannot be examined. (See FUEL GAUGE SENDER UNIT INSPECTION [4WD].)				
3L*1	Bonnet latch switch switch		Bonnet open (bonnet latch switch OFF) Bonnet is closed	4.6	Bonnet latch switch Related wiring harness		
	-		(bonnet latch switch ON)	1.0 or less			
3M	Unlock input (front door lock- link switch (driver's door))	Door lock-link switch (driver's door)	Driver's door locked Driver's door unlocked	4.6 1.0 or less	Door lock-link switch (driver's door) Related wiring harness		
3N	_	_	_	_	_		
30	Lock input (front door lock-link switch (driver's door))	Door lock-link switch (driver's door)	Driver's door locked Driver's door unlocked	1.0 or less 4.6	Door lock-link switch (driver's door) Related wiring harness		
3P	_	_		_	_		
3Q	Rear door switch (RH) signal	Door latch switch (RR)	Rear door (RH) open Rear door (RH) closed	1.0 or less B+	Rear door switch (RH) Related wiring harness		
3R	_	_	_	_	_		
3S	Rear door switch (LH) signal	Door latch switch (LR)	Rear door (LH) closed	1.0 or less B+	Rear door switch (LH) Related wiring harness		
3T	Rear seat belt (RH) switch signal	Rear buckle switch (RH)	Insert rear seat belt (RH) into buckle Rear seat belt (RH) not inserted into buckle	B+ 1.0 or less	Rear buckle switch (RH) Related wiring harness		
3U	Front door switch (passenger's door) signal	Door latch switch (passenger's door)	Front door (passenger's door) open Front door (passenger's door) closed	1.0 or less B+	Front door switch (passenger's door) Related wiring harness		
3V	Rear seat belt (center) switch	Rear center buckle switch	Insert rear seat belt (center) into buckle	B+	Rear center buckle switch		
3٧			Rear seat belt (center) not inserted into buckle	1.0 or less	Related wiring harness		
3W	Front door switch (driver's door)	Door latch switch (driver's door)	Front door (driver's door) open Front door (driver's door) closed	1.0 or less B+	• Front door switch (driver's door)		
	signal	(3	11111 2001 (211101 0 2001) 010000		Related wiring harness		

Termin al	Signal	Connected to	Measurement conditions		Voltage (V)	Inspection item(s)
3X	Rear seat belt (LH) switch	Rear buckle switch (LH)	Insert rear seat belt (LH) into buckle Rear seat belt (LH) not inserted into buckle		B+ 1.0 or less	Rear buckle switch (LH) Related wiring harness
4A	Rear window wiper motor	Rear wiper motor	Ignition switched ON (engine off) Ignition switched OFF (LOCK)		B+ 1.0 or less	Rear wiper motor Related wiring harness
4B	power supply Power ground	Body ground	Under any condition		1.0 or less	Related wiring harness
4C	Liftgate lock actuator control	Liftgate lock actuator	Press liftgate opener switch		B+ → 1.0 or less	Liftgate lock actuator Related wiring harness
4D	Brake light control	Brake light High-mount	Except above Brake pedal depressed Brake pedal not depressed		1.0 or less B+ 1.0 or less	Brake light High-mount brake light
4E	_	brake light —	—		—	• Related wiring harness —
4F	Cargo compartment light power supply	Cargo compartment light	Under any condition		B+	Cargo compartment light Related wiring harness
4G	CAN_H	CAN system related module	Terminal used for communication therefore determ voltage is not possible.			nination based on terminal
4H	_	_				_
41	CAN_H	CAN system related module	Terminal used for communication therefore determ voltage is not possible.			nination based on terminal
4J	CAN_L	CAN system related module	Terminal used for communication therefore determination based on terminal voltage is not possible.			
4K	Liftgate latch switch signal	Cargo compartment light switch	Liftgate open Liftgate closed		1.0 or less B+	Cargo compartment light switch Related wiring harness
4L	CAN_L	CAN system related module	Terminal used for voltage is not pos		erefore determ	nination based on terminal
4M	Liftgate opener switch signal	Liftgate opener switch	Liftgate opener sv Liftgate opener sv	vitch pressed	1.0 or less 4.5	Liftgate opener switch Related wiring harness
4N	—		- Linguic openier of		—	—
40	_	_	_	_	_	_
4P	Cargo compartment light control	Cargo compartment light	Cargo compartment light switched ON	Liftgate open Liftgate closed	1.0 or less B+	Cargo compartment light Related wiring harness
4Q*3	Rear fog light control	Rear fog light	Light switch at TNS position	Rear fog light at OFF	1.0 or less	Rear fog light Related wiring harness
				Rear fog light at ON	B+	
4R	Signal ground	Body ground	Under any condition		1.0 or less	Related wiring harness
4 S	Back-up light control	Back-up light (LH, RH) Auto dimming mirror	Ignition switched ON (engine off)	Selector lever at R position (AT vehicle) Shift lever at R position (MT vehicle)	B+	Back-up light switch Auto dimming mirror Related wiring harness
			Other		1.0 or less	
4T	Rear wiper motor control (LO)	Rear wiper motor	Rear wiper switch at ON Rear wiper switch at OFF		1.0 or less B+	Rear wiper motor Related wiring harness

*1 : Vehicles with theft-deterrent system
*2 : Vehicles with double locking system
*3 : Vehicles with rear fog light
*4 : 4WD vehicles
*5 : Vehicles with smart city brake support