

START STOP UNIT INSPECTION

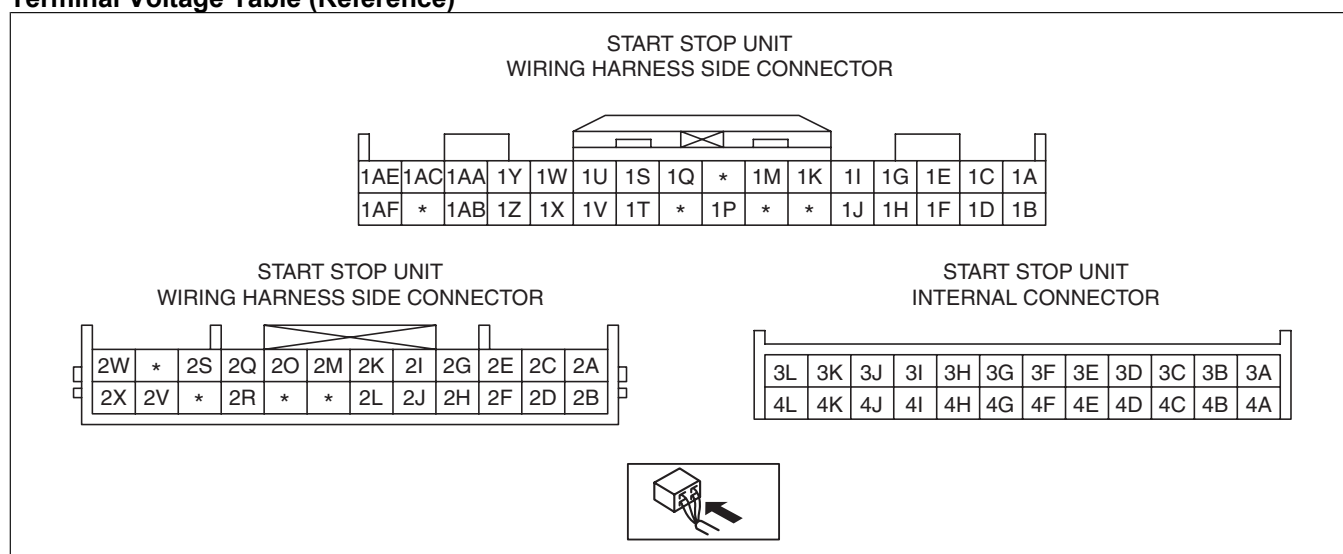
id091400110400

Note

- Because the start stop unit terminals 3A—3L and 4A—4L are inside the start stop unit and not exposed, the terminal voltage cannot be measured.
- Terminals with terminal voltage that cannot be measured are not indicated in the terminal voltage table (reference).

1. Remove the following parts:
 - (1) Column cover (See COLUMN COVER REMOVAL/INSTALLATION.)
2. Verify that the voltages of each of the terminals are as indicated in the terminal voltage table (reference).
 - If the voltage is not as specified in the terminal voltage table (reference), inspect the parts under Inspection item(s) and related wiring harnesses.
 - If the system does not work normally even though the inspection items or related wiring harnesses do not have any malfunction, replace the start stop unit.

Terminal Voltage Table (Reference)



ac5wzw00006107

Ter mi nal	Signal name	Connected to	Measurement conditions		Voltage (V)	Inspection item(s)
1A	Power supply	ROOM 15 A fuse	Under any condition		B+	• ROOM 15 A fuse • Battery
1B	Power supply	IG1 15 A fuse	Ignition switched ON (engine off)		B+	• IG1 15 A fuse • Battery
			Ignition switched OFF (LOCK) or at ACC		1.0 or less	
1C*	Brake switch	Brake switch	Brake pedal depressed		B+	Brake switch
1			Brake pedal not depressed		1.0 or less	
1D	Starter monitor (MTX)	Starter relay	Ignition switched ON (engine off)	Clutch pedal not depressed	B+	• Starter relay • Battery
				Clutch pedal depressed	1.0 or less	
	Starter monitor (ATX)	Starter relay	Ignition switched ON (engine off)	Other than selector lever is in P or N position	B+	• Starter relay • Battery
				Selector lever is in P or N position	1.0 or less	
1E	ACC monitor	MIRROR 7.5 A fuse	Switch the ignition to ACC or ON (engine off)		B+	• MIRROR 7.5 A fuse • Battery
			Ignition switched OFF (LOCK)		1.0 or less	

Ter mi nal	Signal name	Connected to	Measurement conditions		Voltage (V)	Inspection item(s)
1F	Starter interlock switch (MTX)	Starter interlock switch	Clutch pedal not depressed		B+	Starter interlock switch
			Clutch pedal depressed		1.0 or less	
	Selector lever position switch (ATX)	TCM	Other than selector lever is in P or N position		B+	TCM
			Selector lever is in P or N position		1.0 or less	
1G	Hazard warning switch signal	Hazard warning switch	Hazard warning switch not pressed (OFF)		B+	• MIRROR 7.5 A fuse • Battery
			Hazard warning switch pressed (ON)		1.0 or less	
1H	Push button start 1	Push button start	Push button start pressed		1.0 or less	Push button start
			Push button start not pressed		B+	
1I	Push button illumination	Push button start	Determination using terminal voltage inspection is not possible.			Push button start
1J [*] 1	P position	Not P position switch	Selector lever is in P position		B+	Not P position switch
			Except above		1.0 or less	
1K	Push button illumination (green)	Push button start	Engine starting conditions are met		1.0 or less	Push button start
			Except above		B+	
1M	Push button illumination (amber)	Push button start	Ignition switched to ACC or ON (engine off)		1.0 or less	Push button start
			Except above		B+	
1P	Lock input	Door lock-link switch (driver's door)	Driver's door locked		1.0 or less	Door lock-link switch (driver's door)
			Driver's door unlocked		Approx. 5	
1Q	Rear body control module (RBCM) communication	Rear body control module (RBCM)	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
1S [*] 5	Steering angle sensor power supply	Steering angle sensor	The specified time has elapsed since key placed outside vehicle and all doors locked		1.0 or less	Steering angle sensor
			Except above		Approx. 5	
1T [*] 5	Steering angle sensor ground	Steering angle sensor	Under any condition		1.0 or less	Steering angle sensor
1U [*] 5	Steering angle sensor (signal A/D1)	Steering angle sensor	Steering wheel is turned to left and right		4.00—4.75⇔0.25—0.75	Steering angle sensor
1V	Windshield wiper switch signal (LO)	Front body control module (FBCM)	Ignition switch ON (engine off or on)	Other than windshield wiper switch at LO and HI	B+	Front body control module (FBCM)
				Windshield wiper switch at LO	1.0 or less	
1W	Steering angle sensor (signal A/D1)	Steering angle sensor	Steering wheel is turned to left and right		4.00—4.75⇔0.25—0.75	Steering angle sensor
1X	Headlight switch signal (LO)	Front body control module (FBCM)	Light switch at position other than HEAD and passing		B+	Front body control module (FBCM)
			Light switch at HEAD position		1.0 or less	
1Y	Cruise control switch signal	Cruise control switch	RESUME switch is pressed		Approx. 1.5	Cruise control switch
			CANCEL switch is pressed		1.0 or less	
			ON switch is pressed		Approx. 1.9	
			OFF switch is pressed		1.0 or less	
			SET (+) switch is pressed			
			SET (-) switch is pressed			
			Except above		Approx. 3.6	
1Z	Cruise control switch ground	Cruise control switch	Under any condition		1.0 or less	Cruise control switch
1A A	Steering switch signal	Steering switch	Up switch is pressed		1.0 or less	Steering switch
			Down switch is pressed		Approx. 1.2	
			INFO button is pressed		Approx. 2.2	
			Except above		Approx. 3.3	

Ter mi nal	Signal name	Connected to	Measurement conditions		Voltage (V)	Inspection item(s)
1A B	Steering switch ground	Steering switch	Under any condition		1.0 or less	Steering switch
1A C	PATS+	Coil antenna (push button start)	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
1A E	PATS-	Coil antenna (push button start)	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
1A F	GROUND	Body ground	Under any condition		1.0 or less	Body ground
2A	GROUND	Body ground	Under any condition		1.0 or less	Body ground
2B	GROUND	Body ground	Under any condition		1.0 or less	Body ground
2C	ACC relay control	ACC relay	Switch the ignition to ACC or ON (engine off or on)	B+	1.0 or less	ACC relay
			Ignition switched OFF (LOCK)			
2D	IG2 relay control	Front body control module (FBCM)	Ignition switched ON (engine off)	B+	1.0 or less	Front body control module (FBCM)
			Ignition switched OFF (LOCK) or at ACC			
2E* 2	CPP switch	CPP switch	Clutch pedal not depressed	B+	1.0 or less	CPP switch
			Clutch pedal depressed			
2F* 3	LF control unit communication	LF control unit	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2G *1	Shift lock	Shift lock solenoid	Ignition switch ON (engine off or on)	Selector lever at position except P	B+	Shift lock solenoid
				Selector lever at P position and brake pedal depressed	1.0 or less	
2H* 3	LF control unit communication	LF control unit	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2I* 4	Keyless antenna (inside vehicle, center)	Keyless antenna (inside vehicle, center)	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2J	Push button start 2	Push button start	Push button start pressed	1.0 or less	B+	Push button start
			Push button start not pressed			
2K* 4	Keyless antenna (inside vehicle, center)	Keyless antenna (inside vehicle, center)	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2L* 4	GROUND	Shield ground	Under any condition		1.0 or less	Body ground
2M	HS-CAN+	-	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2O	HS-CAN-	-	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2Q	Keyless receiver power supply	Keyless receiver	Under any condition		Approx. 5	Keyless receiver
2R	Keyless receiver communication	Keyless receiver	Because this terminal is for communication, determination using terminal voltage inspection is not possible.			
2S	IG1 relay control	IG1 relay	Ignition switched ON (engine off)	B+	1.0 or less	IG1 relay
			Ignition switched OFF (LOCK) or at ACC			
2V	Starter relay	Starter relay	When cranking	B+	1.0 or less	Starter relay
			Except above			
2W	Power supply	AT 15 A fuse	Under any condition		B+	• AT 15 A fuse • Battery
2X	Power supply (ESCL)	SRS2 / ESCL 15 A fuse	Under any condition		B+	• SRS2 / ESCL 15 A fuse • Battery

*1 : ATX

*2 : MTX

*3 : With advanced keyless system

*4 : Without advanced keyless system

*5 : With AFS (adaptive front lighting system), smart city brake support (SCBS), or park assist system