

## 6. Push Button Start System

### A: WIRING DIAGRAM

For wiring diagrams related to the push button start system (ignition change), refer to the following items. (HEV model)

- Keyless access system: <Ref. to WI(HEV)-158, WIRING DIAGRAM, Keyless Access System.>
- Push button start system: <Ref. to WI(HEV)-181, WIRING DIAGRAM, Push Button Start System.>

### B: ELECTRICAL SPECIFICATION

Refer to “Control Module I/O Signal” of “KEYLESS ACCESS WITH PUSH BUTTON START SYSTEM (DIAGNOSTICS)” section. <Ref. to KPS(diag)-16, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

### C: INSPECTION

#### 1. POWER SUPPLY SWITCH FUNCTION INSPECTION

1) Check push button ignition switch function

(1) Check the power supply change control through the operation of push button ignition switch, brake pedal, and shift position.

Shift lever position	Brake pedal operation	Push button ignition switch operation
P	Released	Repeat Ignition OFF → ACC ON → Ignition ON → Ignition OFF
P	Released	Engine running or hybrid system operating → Ignition OFF
P	Depressed	Ignition OFF → Engine or hybrid system started
P	Depressed	ACC ON → Engine or hybrid system started
P	Depressed	Ignition ON → Engine or hybrid system started
P	Depressed	Engine running or hybrid system operating → Ignition OFF
N	Released	Repeat Ignition OFF → ACC ON → Ignition ON → ACC ON
N	Released	Engine running or hybrid system operating → ACC ON
N	Depressed	Ignition OFF → Engine or hybrid system started
N	Depressed	ACC ON → Engine or hybrid system started
N	Depressed	Ignition ON → Engine or hybrid system started
N	Depressed	Engine running or hybrid system operating → ACC ON
Other than P or N	Released	Repeat Ignition OFF → ACC ON → Ignition ON → ACC ON
Other than P or N	Released	Engine running or hybrid system operating → ACC ON
Other than P or N	Depressed	Ignition OFF → Ignition ON
Other than P or N	Depressed	ACC ON → Ignition ON
Other than P or N	Depressed	Engine running or hybrid system operating → ACC ON

(2) Check the changeover functions other than push button ignition switch operation.

With ACC ON or Ignition ON, and with the shift lever in “P” position, leave the vehicle for 1 hour or more, and confirm that the vehicle status changed from ACC ON or Ignition ON to Ignition OFF.

(3) If the inspection result indicates an improper operation, check the push button start system. <Ref. to KPS(diag)-109, POWER SUPPLY SWITCHING SYSTEM, INSPECTION, General Diagnostic Table.>

## Push Button Start System

### SECURITY AND LOCKS

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#### 2) Check power status display

(1) Check the power indicator display of the push button ignition switch.

#### NOTE:

\*1: Key collation is normal, and the stop light switch (AT) is ON.

Indicator display

Push button ignition switch status	Indicator lighting status
Ignition OFF (except for condition *1)	Light OFF
ACC ON (except for condition *1)	Orange light
Ignition ON (except for condition *1)	Orange light
Engine or hybrid system in start standby mode (*1)	Green light
After engine or hybrid system started	Light OFF

(2) If the inspection result indicates an improper operation, check the push button start system. <Ref. to KPS(diag)-109, POWER SUPPLY SWITCHING SYSTEM, INSPECTION, General Diagnostic Table.>

#### NOTE:

The indicator blinks if any of the following malfunctions are detected.

Detected malfunction	Indicator lighting status
Steering lock stuck	Green blinking
Steering lock CM internal malfunction	Orange blinking
Keyless access CM internal malfunction	Orange blinking
Vehicle speed signal malfunction	Orange blinking