

DTC P2530:00 [GW6A-EL, GW6AX-EL]

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DTC P2530:00	Ignition switch stuck off
DETECTION CONDITION	<ul style="list-style-type: none"> • If the IG ON time count of the instrument cluster proceeds 5 s under the following condition: <ul style="list-style-type: none"> — Ignition switch signal off
FAIL-SAFE FUNCTION	Not applicable
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Start stop unit malfunction <ul style="list-style-type: none"> — Ignition switch signal output stuck off • Wiring harness malfunction <ul style="list-style-type: none"> — Short or open signal in ignition switch — Ignition switch signal terminal (start stop unit terminal 1B) malfunction • Control valve body malfunction <ul style="list-style-type: none"> — Ignition switch signal terminal (start stop unit terminal 1B) pin deformity
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA/SNAPSHOT DATA HAS BEEN RECORDED <ul style="list-style-type: none"> • Has the freeze frame data/snapshot data been recorded on the repair order? 	Yes Go to the next step.
		No Record the freeze frame data/snapshot data on the repair order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> • Verify related Service Information availability. • Is any related Service Information available? 	Yes Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	VERIFY STORED DTC IN START STOP UNIT <ul style="list-style-type: none"> • Perform the start stop unit DTC inspection using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Are any DTCs present? 	Yes Go to the applicable DTC inspection. (See DTC TABLE [START STOP UNIT].)
		No Go to the next step.
4	INSPECT IGNITION CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Switch the ignition off. • Disconnect the negative battery cable. • Verify that the following connector are disconnected. <ul style="list-style-type: none"> — IG1 relay — Start stop unit • Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> — IG1 relay terminal C—Start stop unit terminal 1B • Is there continuity? 	Yes Go to the next step.
		No Refer to the wiring diagram and verify whether or not there is a common connector between IG1 relay terminal C and start stop unit terminal 1B. If there is a common connector: <ul style="list-style-type: none"> • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. If there is no common connector: <ul style="list-style-type: none"> • Repair or replace the wiring harness which has an open circuit. Go to Step 6.
5	VERIFY ENGINE START <ul style="list-style-type: none"> • Reconnect all disconnected connectors. • Reconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Does the engine start normally? 	Yes Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].)
		No Replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)

STEP	INSPECTION	ACTION	
6	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none">• Clear the DTC using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].)• Perform the following procedure to ensure that the DTC has been resolved:<ol style="list-style-type: none">1. Switch the ignition ON (engine off or on) and wait for 10 s or more.2. Switch the ignition off.• Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].)• Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [GW6A-EL, GW6AX-EL].)
		No	DTC troubleshooting completed.