

DTC P081D:29 [START STOP UNIT]

id0902p6022900

System malfunction location	Neutral switch error signal received
Detection condition	• The start stop unit receives neutral switch signal error signal from the PCM for 1 min or more with the ignition switched ON (engine off or on).
Fail-safe	• Perform the control with neutral switch signal turned off.
Possible cause	• DTCs are stored in the PCM • Neutral switch malfunction • PCM malfunction • Start stop unit malfunction
System wiring diagram	—

Diagnostic Procedure

Step	Inspection	Action
1	VERIFY PCM DTCs <ul style="list-style-type: none">• Perform the DTC inspection for the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC displayed?	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
		No Go to the next step.
2	INSPECT NEUTRAL SWITCH <ul style="list-style-type: none">• Inspect the neutral switch. (See NEUTRAL SWITCH INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEUTRAL SWITCH INSPECTION [SKYACTIV-D 2.2].) • Is the neutral switch normal?	Yes Go to the next step.
		No Replace the neutral switch, then go to Step 4. (See NEUTRAL SWITCH REMOVAL/INSTALLATION [C66M-R, C66MX-R].) (See NEUTRAL SWITCH REMOVAL/INSTALLATION [D66M-R, D66MX-R].)
3	VERIFY PCM DTCs <ul style="list-style-type: none">• Perform the DTC inspection for the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC displayed?	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
		No Go to the next step.
4	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none">• Clear DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].)• Switch the ignition ON (engine off or on) and wait for 1 min or more.• Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].)• Is DTC P081D:29 displayed?	Yes Replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)
		No Go to the next step.
5	VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none">• Are any other DTCs displayed?	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [START STOP UNIT].)
		No DTC troubleshooting completed.