

NO.2 i-stop WARNING LIGHT (AMBER) FLASHES [SKYACTIV-D 2.2]

id1103a2000700

2	i-stop WARNING LIGHT (AMBER) FLASHES
DESCRIPTION	<ul style="list-style-type: none"> i-stop function is inhibited because an i-stop control system error is detected.
POSSIBLE CAUSE	<p>i-stop component parts malfunction</p> <ul style="list-style-type: none"> Detects malfunction in i-stop component part (i-stop related module detects DTC) <ul style="list-style-type: none"> PCM DC-DC converter Current sensor Battery malfunction (deterioration) Generator malfunction (part, system, control malfunction) DSC HU/CM SAS control module TCM (ATX) Power brake unit vacuum sensor malfunction Refrigerant pressure sensor Steering angle sensor malfunction Instrument cluster malfunction <p>Number of times i-stop function operates exceeds assured operation amount of components</p> <ul style="list-style-type: none"> Number of times engine restart exceed limit Any of following parts exceeds assured operation amount: <ul style="list-style-type: none"> Starter relay Starter

Diagnostic Procedure

STEP	INSPECTION	RESULTS	ACTION
1	<p>VERIFY DTC</p> <ul style="list-style-type: none"> Retrieve the PCM, DSC HU/CM, SAS control module and TCM DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) (See DTC INSPECTION.) (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].) Are any DTCs present? 	<p>Yes</p> <p>No</p>	<p>Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].) (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) (See DTC TABLE.) (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [GW6A-EL, GW6AX-EL].)</p> <p>Go to the next step.</p>
2	<p>DETERMINE IF MALFUNCTION CAUSE IS BATTERY VOLTAGE DECREASE OR OTHER</p> <ul style="list-style-type: none"> Start the engine and warm it up completely. Idle the engine. Access the BATT_SOC PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) Is the BATT_SOC PID value above 68 %? 	<p>Yes</p> <p>No</p>	<p>Go to Step 4.</p> <p>Go to the next step.</p>
3	<p>INSPECT BATTERY</p> <ul style="list-style-type: none"> Recharge the battery. (See BATTERY RECHARGING [SKYACTIV-D 2.2].) Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-D 2.2].) Is there any malfunction? 	<p>Yes</p> <p>No</p>	<p>Replace the battery. (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)</p> <p>Go to the next step.</p>
4	<p>INSPECT GENERATOR</p> <ul style="list-style-type: none"> Inspect the generator. (See GENERATOR INSPECTION [SKYACTIV-D 2.2].) Is there any malfunction? 	<p>Yes</p> <p>No</p>	<p>Repair or replace the malfunctioning part according to the inspection results.</p> <p>Replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)</p>

STEP	INSPECTION	RESULTS	ACTION
5	Verify the test results. <ul style="list-style-type: none"> • If normal, return to the diagnostic index to service any additional symptoms. (See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-D 2.2].) • If a malfunction remains, inspect the related Service Information and perform the repair or diagnosis. <ul style="list-style-type: none"> — If the vehicle is repaired, troubleshooting is completed. — If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) 		