

NO.7 CHARGING SYSTEM WARNING LIGHT ILLUMINATES/MESSAGE "Charging System Inspection Required" IS INDICATED IN TFT LCD [SKYACTIV-D 2.2]

id0103g1879100

7	CHARGING SYSTEM WARNING LIGHT ILLUMINATES/MESSAGE "Charging System Inspection Required" IS INDICATED IN TFT LCD
DESCRIPTION	<ul style="list-style-type: none"> • "Charging System Inspection Required" is displayed in the TFT LCD. (with TFT LCD) • Charging system warning light illuminates. (without TFT LCD)
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Erratic signal to PCM <ul style="list-style-type: none"> — Generator or related circuit malfunction • Battery malfunction • Generator malfunction • Instrument cluster malfunction

Diagnostic Procedure

STEP	INSPECTION	RESULTS	ACTION
1	VERIFY PCM DTC <ul style="list-style-type: none"> • Retrieve PCM DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	Go to the next step.
2	VERIFY CURRENT INPUT SIGNAL STATUS <p>Caution</p> <ul style="list-style-type: none"> • While performing this step, always operate the vehicle in a safe and lawful manner. • When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD capturing function and inspect later. <ul style="list-style-type: none"> • Access the following PIDs using the M-MDS: (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) <ul style="list-style-type: none"> — ALTT V • Do the PIDs indicate the correct values under the malfunction condition? (See PCM INSPECTION [SKYACTIV-D 2.2].) 	Yes	Inspect the related sensor and circuit. <ul style="list-style-type: none"> • If there is any malfunction: <ul style="list-style-type: none"> — Repair or replace the malfunctioning part according to the inspection results, then go to Step 6. • If there is no malfunction: <ul style="list-style-type: none"> — Go to the next step.
		No	Go to the next step.
3	INSPECT BATTERY <ul style="list-style-type: none"> • Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-D 2.2].) • Is the battery normal? 	Yes	Go to the next step.
		No	Recharge or replace the battery, then go to Step 6. (See BATTERY RECHARGING [SKYACTIV-D 2.2].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4	INSPECT GENERATOR <ul style="list-style-type: none"> • Inspect the generator. (See GENERATOR INSPECTION [SKYACTIV-D 2.2].) • Is the generator normal? 	Yes	Go to the next step.
		No	Repair or replace the malfunctioning part according to the inspection results, then go to Step 6. (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5	INSPECT INSTRUMENT CLUSTER <ul style="list-style-type: none"> • Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION.) • Is the instrument cluster normal? 	Yes	Go to the next step.
		No	Replace the instrument cluster, then go to the next step. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
6	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].) 		