

LOW ENGINE COOLANT TEMPERATURE INDICATOR LIGHT/HIGH ENGINE COOLANT TEMPERATURE WARNING LIGHT ILLUMINATES OR FLASHES CONTINUOUSLY [INSTRUMENT CLUSTER]

id0903d5013300

Possible cause

- ECT sensor malfunction
- Instrument cluster malfunction

Diagnostic Procedure

Step	Inspection	Action	
1	PERFORM CAN MALFUNCTION DIAGNOSIS AND DTC INSPECTION <ul style="list-style-type: none"> • Perform the CAN malfunction diagnosis according to the recommendation of FOREWORD [INSTRUMENT CLUSTER] malfunction diagnosis, and if there is no CAN malfunction, perform inspection for DTCs. (See DTC INSPECTION [INSTRUMENT CLUSTER].) • Is the DTC displayed? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
2	VERIFY THE MALFUNCTION SYMPTOM <ul style="list-style-type: none"> • Cool down the engine. • When the ignition is switched ON, does the engine coolant temperature warning light illuminate or flash? 	Yes	Go to Step 4.
		No	Go to the next step.
3	VERIFY ILLUMINATION OF LOW ENGINE COOLANT TEMPERATURE INDICATOR LIGHT <ul style="list-style-type: none"> • Start the engine. • Monitor the PID ECT using the M-MDS. • Verify that the low engine coolant temperature indicator light illuminates when the ECT monitor value is 55 °C {131 °F} or more. • Does the low engine coolant temperature indicator light illuminate? 	Yes	Go to the next step.
		No	The system is operating normally.
4	INSPECT ECT SENSOR <ul style="list-style-type: none"> • Inspect the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-D 2.2].) • Is the ECT sensor normal? 	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
		No	Replace the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)