

CHECK ENGINE LIGHT [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

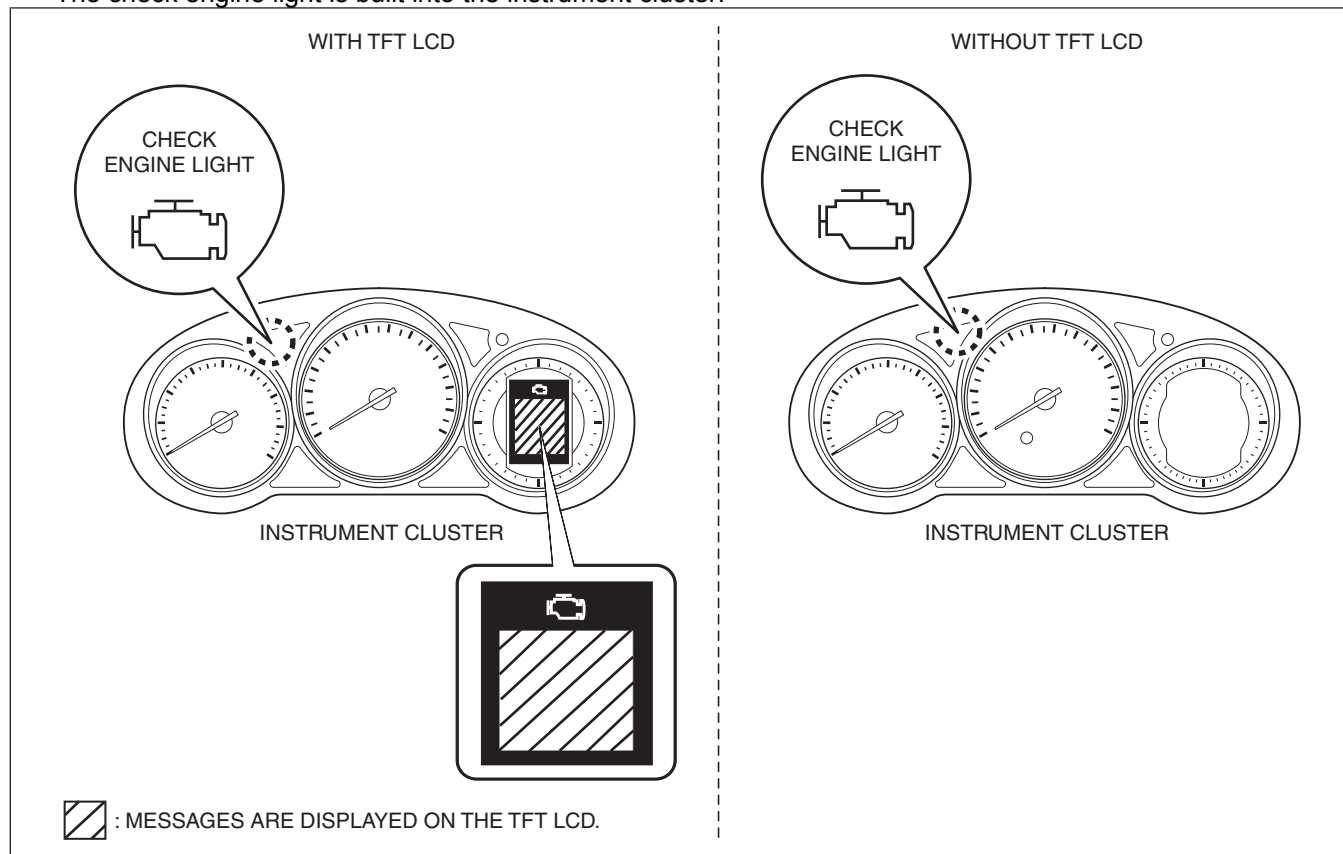
id0102h4549100

Purpose/Function

- If a malfunction occurs in the engine control system, the light illuminates to warn the driver of the malfunction.

Construction

- The check engine light is built into the instrument cluster.



ac5wzn00002612

Operation

- The check engine light illuminates when a malfunction occurs in the engine control system, and it illuminates at the same time a DTC is recorded in the PCM.
- The illumination conditions for the check engine light are determined by the number of drive cycles set for each DTC. For details on the drive cycle, refer to "ON-BOARD DIAGNOSTIC SYSTEM TEST MODE". (See ON-BOARD DIAGNOSTIC SYSTEM TEST MODE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
- For DTCs with one drive cycle, if a malfunction is detected in the first drive cycle, the check engine light illuminates.
- For DTCs with two drive cycles, if each malfunction is detected in the first and second drive cycles, the check engine light illuminates. However, if the same malfunction as the DTC stored in the PCM is detected, the check engine light illuminates in the first drive cycle even if the DTC is two drive cycles.
- If the PCM detects that the engine control system is continuously normal for three drive cycles, the illuminated check engine light turns off. However, the DTC is not cleared from the PCM at this time. If the PCM determines that the engine control system is continuously normal for **41** warm-up cycles*, the DTC is cleared.

* : A warm-up cycle is a drive cycle including the period until the engine is completely warmed up after a cold-engine starts. This cycle repeated **41 times** is a **41** warm-up cycle.

- The PCM sends a check engine light illumination request to the instrument cluster via CAN communication.