KOEO/KOER SELF TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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KOEO Self Test

- 1. Connect the M-MDS to the DLC-2.
- 2. After the vehicle is identified, select the following items from the initialization screen of the M-MDS.
 - (1) Select "Self Test".
 - (2) Select "Modules".
 - (3) Select "PCM".
- 3. Then, select the "KOEO On Demand Self Test" and perform procedures according to the directions on the M-MDS screen.
- 4. Verify the DTC according to the directions on the M-MDS screen.
 - If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection.
- After completion of repairs, clear all DTCs stored in the PCM, while referring to "AFTER REPAIR PROCEDURE".

KOER Self Test

Note

- If a KOER self test is performed with the engine coolant temperature at less than 60 °C {140 °F}, a DTC for the variable valve timing may be detected even if the variable valve timing is normal.
- For vehicles with the variable valve timing control, execute a KOER self test after the variable valve timing learning is finished.
 - A KOER self test cannot be executed if the variable timing valve learning in not finished.
 - The variable valve timing learning is cleared if the PCM backup power supply is interrupted (including battery removal), or after reprogramming.
 - To perform variable valve timing learning, the engine speed needs to be increased momentarily to approx. 2,000 rpm.
- 1. Connect the M-MDS to the DLC-2.
- 2. Start engine and run it at idle.
- 3. After the vehicle is identified, access the ECT PID using the M-MDS.
- Verify the ECT PID value is above 60 °C {140 °F}.
- 5. Select the following items from the initialization screen of the M-MDS.
 - (1) Select "Self Test".(2) Select "Modules".

 - (3) Select "PCM".
- 6. Then, select the "KOER On Demand Self Test" and perform procedures according to the directions on the M-MDS screen.
- 7. Verify the DTC according to the directions on the M-MDS screen.
 - If any DTCs are displayed, perform troubleshooting according to the corresponding DTC inspection.
- 8. After completion of repairs, clear all DTCs stored in the PCM, while referring to "AFTER REPAIR PROCEDURE".