

**NO.22 VIBRATION CONCERNS (ENGINE) [SKYACTIV-G 2.0, SKYACTIV-G 2.5]**

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| <b>22</b>             | <b>VIBRATION CONCERNS (ENGINE)</b>   |
| <b>DESCRIPTION</b>    | • Vibration from under bonnet or driveline.  |
| <b>POSSIBLE CAUSE</b> | • Loose attaching bolts or worn parts<br>• Components malfunction such as worn parts |

**Diagnostic Procedure**

| <b>STEP</b> | <b>INSPECTION</b>   | <b>RESULTS</b> | <b>ACTION</b>   |
|-------------|---|----------------|---|
| 1           | <b>VERIFY PART INSTALLATION CONDITION</b> <ul style="list-style-type: none"><li>• Inspect the following components for loose attaching bolts or worn parts:<ul style="list-style-type: none"><li>— Cooling fan</li><li>— Condenser fan</li><li>— Engine mounts</li><li>— Exhaust system</li><li>— Abnormal combustion</li></ul></li><li>• Is there any malfunction?</li></ul>   | Yes            | Readjust installation position or retighten the suspect parts.<br>Repair or replace the malfunctioning part according to the inspection results for other parts.  |
|             |   | No             | Inspect the following systems: <ul style="list-style-type: none"><li>• Wheels</li><li>• Transmission and mounts</li><li>• Driveline</li><li>• Suspension<ul style="list-style-type: none"><li>— If there is any malfunction:<ul style="list-style-type: none"><li>• Repair or replace the malfunctioning part according to the inspection results.</li></ul></li><li>— If there is no malfunction:<ul style="list-style-type: none"><li>• Go to the next step.</li></ul></li></ul></li><li>• Misfire<ul style="list-style-type: none"><li>— If there is any malfunction:<ul style="list-style-type: none"><li>• Inspect the parts related to the ignition system, intake air system, and control system, repair or replace the malfunctioning part.</li></ul></li><li>— If there is no malfunction:<ul style="list-style-type: none"><li>• Go to the next step.</li></ul></li></ul></li></ul> |
| 2           | Verify the test results. <ul style="list-style-type: none"><li>• If normal, return to the diagnostic index to service any additional symptoms.<br/>(See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li><li>• If a malfunction remains, inspect the related Service Information and perform the repair or diagnosis.<ul style="list-style-type: none"><li>— If the vehicle is repaired, troubleshooting is completed.</li><li>— If the vehicle is not repaired or additional diagnostic information is not available, replace the PCM.<br/>(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li></ul></li></ul> |                |   |