

## ABNORMAL SHIFTING [FW6A-EL, FW6AX-EL]

id050317101200

TROUBLESHOOTING ITEM	Abnormal shifting
DESCRIPTION	<ul style="list-style-type: none"> <li>Shifts incorrectly (incorrect shift pattern).</li> </ul>
POSSIBLE CAUSE	<ol style="list-style-type: none"> <li>Signal malfunction <ul style="list-style-type: none"> <li>APP sensor malfunction</li> <li>BARO sensor malfunction</li> <li>Brake switch malfunction</li> <li>CKP sensor malfunction</li> <li>ECT sensor No.1 malfunction</li> <li>IAT sensor No.1 malfunction</li> <li>MAF sensor malfunction</li> </ul> </li> <li>Low-G (XY) sensor (built into SAS control module) malfunction</li> </ol> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>If a tire of a different diameter from the standard tire is installed, the TCM determines that the driving mode is the AAS mode, and may change to a different shift timing from the normal timing.</li> </ul>

### Diagnostic procedure

Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<b>INSPECT SIGNAL PARTS FOR MALFUNCTION</b> <ul style="list-style-type: none"><li>Inspect the value at the following PCM PIDs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)<ul style="list-style-type: none"><li>APP (APP sensor)</li><li>BARO (BARO sensor)</li><li>BOO (Brake switch)</li><li>ECT (ECT sensor No.1)</li><li>IAT (IAT sensor No.1)</li><li>MAF (MAF sensor)</li><li>RPM (CKP sensor)</li></ul></li><li>Is there any malfunction?</li></ul>	Yes	Repair or replace any malfunctioning parts according to the inspection result.
		No	Go to the next step.
2	<b>VERIFY IF MALFUNCTION CAUSE IS LOW-G (XY) SENSOR</b> <ul style="list-style-type: none"><li>Is there any malfunction?</li></ul>	Yes	Replace the SAS control module. (See SAS CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Symptom troubleshooting is completed.