

NO SHIFTING [GW6A-EL, GW6AX-EL]

id050320101000

TROUBLESHOOTING ITEM	No shifting
DESCRIPTION	<ul style="list-style-type: none"> • Single shift position only. • Sometimes shifts correctly.
POSSIBLE CAUSE	<ol style="list-style-type: none"> 1. Signal malfunction <ul style="list-style-type: none"> — APP sensor malfunction — BARO sensor malfunction — Brake switch malfunction — CKP sensor malfunction — IAT sensor No.1 malfunction — MAF sensor malfunction 2. Low-G (XY) sensor (built into SAS control module) malfunction <p>Note</p> <ul style="list-style-type: none"> • 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.

Diagnostic procedure

STEP	INSPECTION		ACTION
1	INSPECT SIGNAL PARTS FOR MALFUNCTION <ul style="list-style-type: none"> • Inspect the value at the following PCM PIDs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) <ul style="list-style-type: none"> — APP (APP sensor) — BARO (BARO sensor) — BOO (Brake switch) — IAT (IAT sensor No.1) — MAF (MAF sensor) — RPM (CKP sensor) • Is there any malfunction? 	Yes	Repair or replace any malfunctioning parts according to the inspection result.
		No	Go to the next step.
2	VERIFY IF MALFUNCTION CAUSE IS LOW-G (XY) SENSOR <ul style="list-style-type: none"> • Is there any malfunction? 	Yes	Replace the SAS control module. (See SAS CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Symptom troubleshooting is completed.