

EXCESSIVE SHIFT SHOCK ON TORQUE CONVERTER CLUTCH (TCC) [FW6A-EL, FW6AX-EL]

id050317102200

TROUBLESHOOTING ITEM	Excessive shift shock on torque converter clutch (TCC)
DESCRIPTION	<ul style="list-style-type: none"> Strong shock is felt when TCC is engaged.
POSSIBLE CAUSE	<ol style="list-style-type: none"> Insufficient TCM learning (Insufficient TCC learning) Signal malfunction <ul style="list-style-type: none"> APP sensor malfunction CKP sensor malfunction Torque converter malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	PERFORM INITIAL LEARNING AND TCC LEARNING Perform the initial learning. (See INITIAL LEARNING [FW6A-EL, FW6AX-EL].) Perform TCC learning using the following procedure: (1) The ATF temperature is 20 °C {68 °F} or more . (2) Constantly maintain the accelerator pedal opening angle between 20 % to 60 % . (3) Accelerate the vehicle from a stop to 1st gear and from 1st to 2nd gear. (4) Perform the shifting above (3) ten times. • Does the symptom disappear?	Yes	Symptom troubleshooting is completed.
		No	Go to the next step.
2	INSPECT SIGNAL PARTS FOR MALFUNCTION • 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].) — APP (APP sensor) — RPM (CKP sensor) • Is there any malfunction?	Yes	Repair or replace any malfunctioning parts according to the inspection result.
		No	Replace the automatic transaxle. (See AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [FW6A-EL].) (See AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [FW6AX-EL].)