Sportage [AL] > 2000 > Engine > 2.0 DOHC

Diagnostic Trouble Code Diagnosis Charts

P0342	Camshaft position (phase) sensor low input
Threshold Value ~ # of CMP sensor signals during 2 crankshaft revolutions: >1 Enable Conditions ~ Engine speed: >600 RPM Time Requirements ~ Continuous MIL Illumination ~ 2 driving cycle	**Related Items** ⇨ Short to GND between Cam Position (Phase) Sensor (CMP)(C118-2) and ECM (C211-44). ⇨ Faulty CMP Sensor.

STEP	INSPECTION	Y/N	ACTION
1	**IMPORTANT! Record all freeze frame data before disconnecting any connectors of clearing code(s). With ignition off, disconnect C118 from CMP and C211 from ECM. Connect adapter cable #K99U-2106-G17 to BOB and connect vehicle C211 to adapter cable. Measure resistance to GND at BOB pin 44 (infinite resistance).** **Is resistance infinite?**	**YES**	**Go to step 2.**
		NO	Locate source of short to GND and repair as necessary.
2	Measure resistance from CMP Sensor pigtail (C118-2) to GND (infinite resistance). Is resistance infinite?	YES	Go to step 3.
		NO	Replace CMP Sensor.
3	Reconnect C118 to CMP and connect adapter cable C211 to ECM. Set up KIA Data Pro for use as a single channel oscilloscope (refer to KIA Data Pro Program Card Operators Manual section 4 for set up procedures). Make sure internal NI-CAD battery is fully charged or use adapter cable to power scan tool. Do not connect scan tool to OBD-II DLC for power source as this may affect waveform. Connect positive lead to BOB pin 44 and negative lead to GND. Set scope time (F1) to 50ms and voltage (F2) to 5v. Start engine and allow to idle at operating temperature. Pattern should be similar to sample: Is pattern similar to sample?	YES	While still monitoring waveform, wiggle test harness between CMP Sensor and C211. If pattern becomes broken or is eliminated, repair or replace harness as necessary.
		NO	Replace CMP Sensor.
4	Clear codes and return vehicle to original condition. Verify any repairs by driving vehicle with KIA Data Pro connected to OBD-II connector and monitoring for pending codes (refer to section 3 of the KIA Data Pro Generic OBD-II Program Card reference manual).		