



Diagnostic Trouble Code Diagnosis Charts

P0601 & P0604	ECM checksum and RAM error
Threshold Value ~ P0601 ~ Checksum error P0604 ~ RAM error Enable Conditions ~ At power up Time Requirements ~ Once per driving cycle MIL Illumination ~ 2 driving cycles	Related Items ⇨ Open or blown fuse (ECU fuse in Passenger Compartment Fuse Box - PCFB of Fuel Inj fuse in Engine Compartment Fuse/Relay Box - ECFRB) in ECM back up power supply circuit. ⇨ Faulty ECM.

STEP	INSPECTION	Y/N	ACTION
1	Check Fuel Inj fuse in ECFRB and ECU fuse in PCFB. Is either fuse blown?	YES	Locate source of short and repair as necessary.
		NO	Go to step 2.
2	With ignition off, connect adapter cable #K99U-2106-G17 to BOB and disconnect C211 from ECM. Connect adapter cable C211 to ECM and vehicle C211 to adapter cable. Measure voltage at BOB pin 26 (B+). Is battery voltage available?	YES	Monitor voltage at BOB pin 26 while test driving. If voltage stays constant and pending code returns, replace ECM. If voltage fluctuates, check circuit Thoroughly for loose, bent or corroded terminals and repair as necessary.
		NO	Locate open or source of high resistance between ECM B+ fuse and C211-26. Repair as necessary.
3	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).		