

4-1-23 EI SYSTEM DIAGNOSIS

MALFUNCTION CODE	DETECTED ITEM	DETECTED FAILURE CONDITION
		CHECK FOR
C24 / C25	Ignition coil (IG coil), NO.1 / NO.2	Ignition signal is interrupted continuous by 31 times or more when ECU confirm ignition surge at each combustion chamber. In this case, the code C24 or C25 is indicated.
		Ignition coil, wiring / coupler connection, power supply from the battery.
C27	Idle speed control solenoid (ISC solenoid)	The idle speed control solenoid step should be the following. O step \leq solenoid step \leq 250 step Without the above range, C27 is indicated.
		Idle speed control solenoid, lead wire / coupler connection.
C31	Gear position switch (GP switch)	It judges from gear position voltage, engine speed and throttle position by ECU, when $0.15 \text{ V} < \text{Gear position voltage} < 3.93 \text{ V}$ for more 2 sec.. If gear position voltage get out of the above voltage, C31 is indicated.
		Gear position switch, wiring / coupler connection, gearshift cam etc.
C32 / C33	Fuel injector, NO.1 / NO.2	Injector signal is interrupted continuous for more than 1 sec. when ECU confirm injector running surge at each combustion chamber, C32 or C33 is indicated.
		Injector, wiring / coupler connection, power supply to the injector.
C37	Secondary air valve solenoid (SAV solenoid)	No voltage is applied from ECU to secondary air valve solenoid by 400 sec.. In this case, the code 37 is indicated.
		Secondary air valve solenoid, lead wire / coupler connection.
C41	Fuel pump relay	Voltage is applied continuous for more than 5 sec., battery voltage $\geq 3.2 \text{ V}$ when fuel pump relay is "OFF" position or battery voltage $< 1.5 \text{ V}$ when fuel pump relay is "ON" position. In this case, the code 41 is indicated.
		Fuel pump relay, connecting lead wire, power source to fuel pump relay, fuel injector.
C43	Oxygen sensor heater (O ₂ S heater)	The oxygen sensor heater signal is not inputted in ECU.
		Oxygen sensor heater, lead wire / coupler connection.