

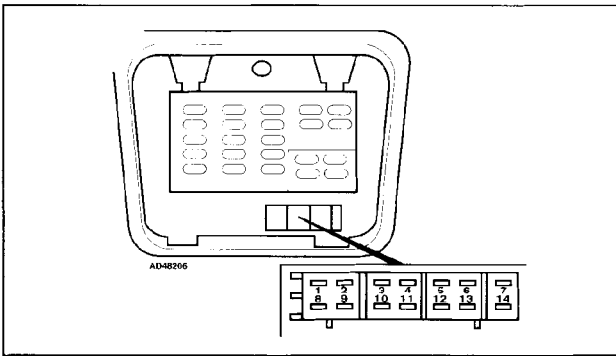
Model: Almera 2,0D • Primera 2,0TD • Terrano II 2,7TD  
 Year: 1996-00  
 Engine code: CD20E, CD20T, TD27Ti  
 System: Bosch EDC

**NISSAN**



Engine management

## Data link connector (DLC) locations



In fascia fusebox

## Trouble codes

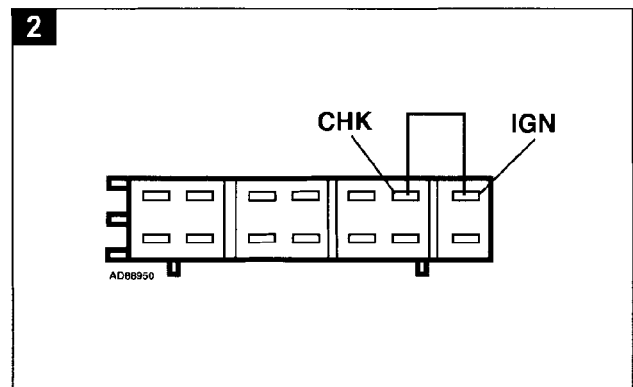
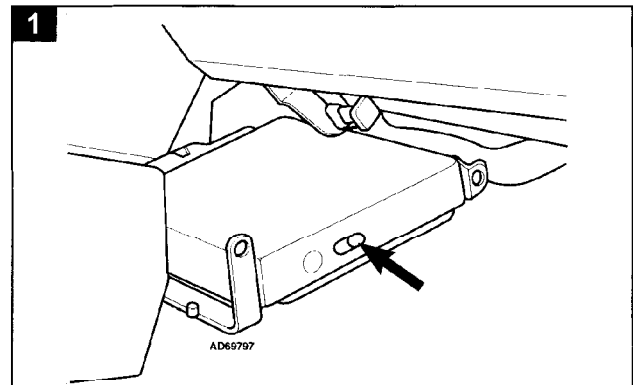
### General information

- Refer to the front of this manual for general test conditions, terminology, detailed descriptions of wiring faults and a general trouble shooter for electrical and mechanical faults.
- Trouble codes are displayed by the malfunction indicator lamp (MIL).
- The ECM fault memory can also be checked using diagnostic equipment connected to the data link connector (DLC).
- Switch ignition ON.
- Check that MIL illuminates.
- Start engine. Allow to idle.
- If MIL extinguishes: No trouble codes have been recorded.
- If MIL remains illuminated: Access trouble codes.

### Accessing

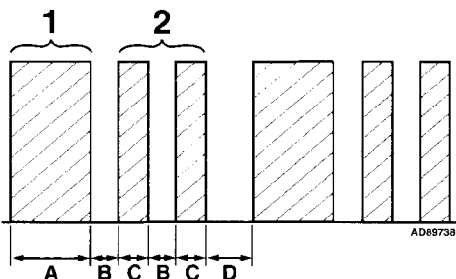
**NOTE:** Some models will also display trouble codes by the red LED in the ECM **1**.

- Switch ignition ON.
- Bridge data link connector (DLC) terminals IGN and CHK **2**.
- Wait 2 seconds.
- Disconnect bridge wire from data link connector (DLC) **2**.
- Count MIL flashes. Compare with trouble code table.
- Long flashes indicate the 'tens' of the trouble code **3** [A].
- Short flashes indicate the 'units' of the trouble code **3** [C].
- A short pause separates each flash **3** [B].
- A long pause separates each trouble code **3** [D].
- For example: Trouble code 12 displayed **3**.
- Switch ignition OFF. Rectify faults as necessary.





## Engine management

**3****Erasing**

- Switch ignition ON.
- Bridge data link connector (DLC) terminals IGN and CHK **2**.
- Wait 2 seconds.
- Disconnect bridge wire from data link connector (DLC) **2**.
- Check that MIL flashes.
- Bridge data link connector (DLC) terminals IGN and CHK **2**.
- Wait 2 seconds.
- Disconnect bridge wire from data link connector (DLC) **2**.
- Switch ignition OFF.
- Repeat checking procedure to ensure no data remains in ECM fault memory.

**Trouble code identification**

Flash type	Fault location	Probable cause
11	Fuel injection pump position sensor – incorrect signal	Wiring open/short circuit, fuel injection pump position sensor
12	Mass air flow (MAF) sensor – circuit malfunction	Wiring open/short circuit, MAF sensor
13	Engine coolant temperature (ECT) sensor – circuit malfunction	Wiring open/short circuit, ECT sensor
14	Vehicle speed sensor (VSS) – circuit malfunction	Wiring open/short circuit, VSS
15	Fuel quantity adjuster position sensor – circuit malfunction	Wiring open/short circuit, fuel quantity adjuster position sensor
17	Module coding plug – circuit malfunction	Wiring open/short circuit, module coding plug
18	Fuel quantity adjuster/position sensor – malfunction	Wiring, supply voltage, fuel quantity adjuster/position sensor, ECM, fuel injection pump
21	Fuel injection timing solenoid/injector needle lift sensor – malfunction	Wiring, fuel injection timing solenoid, injector needle lift sensor, CKP sensor, air in fuel
22	Fuel quantity adjuster/position sensor – malfunction	Wiring, supply voltage, fuel quantity adjuster/position sensor, ECM, fuel injection pump
23	Accelerator pedal position (APP) switch – incorrect signal	Wiring open/short circuit, APP switch
25	Fuel quantity adjuster – circuit malfunction	Wiring, fuel quantity adjuster
27	Engine control module (ECM) – defective	ECM
28	Engine coolant blower motor – malfunction	Wiring, engine coolant blower motor, coolant system
31	Engine control module (ECM) – defective	ECM
34	Injector needle lift sensor – incorrect signal	Wiring, injector needle lift sensor, air in fuel
36	Fuel shut-off solenoid 1 – malfunction	Wiring open/short circuit, fuel shut-off solenoid
37	Fuel shut-off solenoid 1 – circuit malfunction	Wiring short circuit
38	Fuel shut-off solenoid 2 – malfunction	Wiring open circuit, ECM
42	Fuel temperature sensor – incorrect signal	Wiring open/short circuit, fuel temperature sensor
43	Accelerator pedal position (APP) sensor/accelerator pedal position (APP) switch – incorrect signal	Wiring open/short circuit, APP sensor/switch
47	Crankshaft position (CKP) sensor – incorrect signal	Wiring open/short circuit, CKP sensor



Flash type	Fault location	Probable cause
48	Accelerator pedal position (APP) switch/fuel injection pump position sensor – circuit malfunction	Wiring open/short circuit, APP switch, fuel injection pump position sensor, ECM
55	No fault found	–
82	Barometric pressure (BARO) sensor, in ECM – incorrect signal	ECM
83	Glow plug relay – circuit malfunction	Wiring open/short circuit, glow plug relay
84	Engine control module (ECM), reference voltage – Incorrect	ECM
85	AC relay – circuit malfunction	Wiring open/short circuit, AC relay
86	Exhaust gas recirculation (EGR) solenoid – circuit malfunction	Wiring open/short circuit, EGR solenoid
87	Brake pedal position (BPP) switch I/II – circuit malfunction	Wiring open/short circuit, BPP switch
91	Engine control module (ECM) – defective	ECM
92	Engine control relay, shut-off time – too late	Wiring open/short circuit, engine control relay, ECM
93	Ignition switch/ECM voltage supply – circuit malfunction	Wiring short circuit
94	Fuel injection timing solenoid – circuit malfunction	Wiring open/short circuit, fuel injection timing solenoid
96	Engine control module (ECM)/injector needle lift sensor – incorrect signal	System voltage low, injector needle lift sensor, ECM
97	Malfunction indicator lamp (MIL) – circuit malfunction	Wiring open/short circuit, MIL
98	Glow plug warning lamp – circuit malfunction	Wiring open/short circuit, glow plug warning lamp

