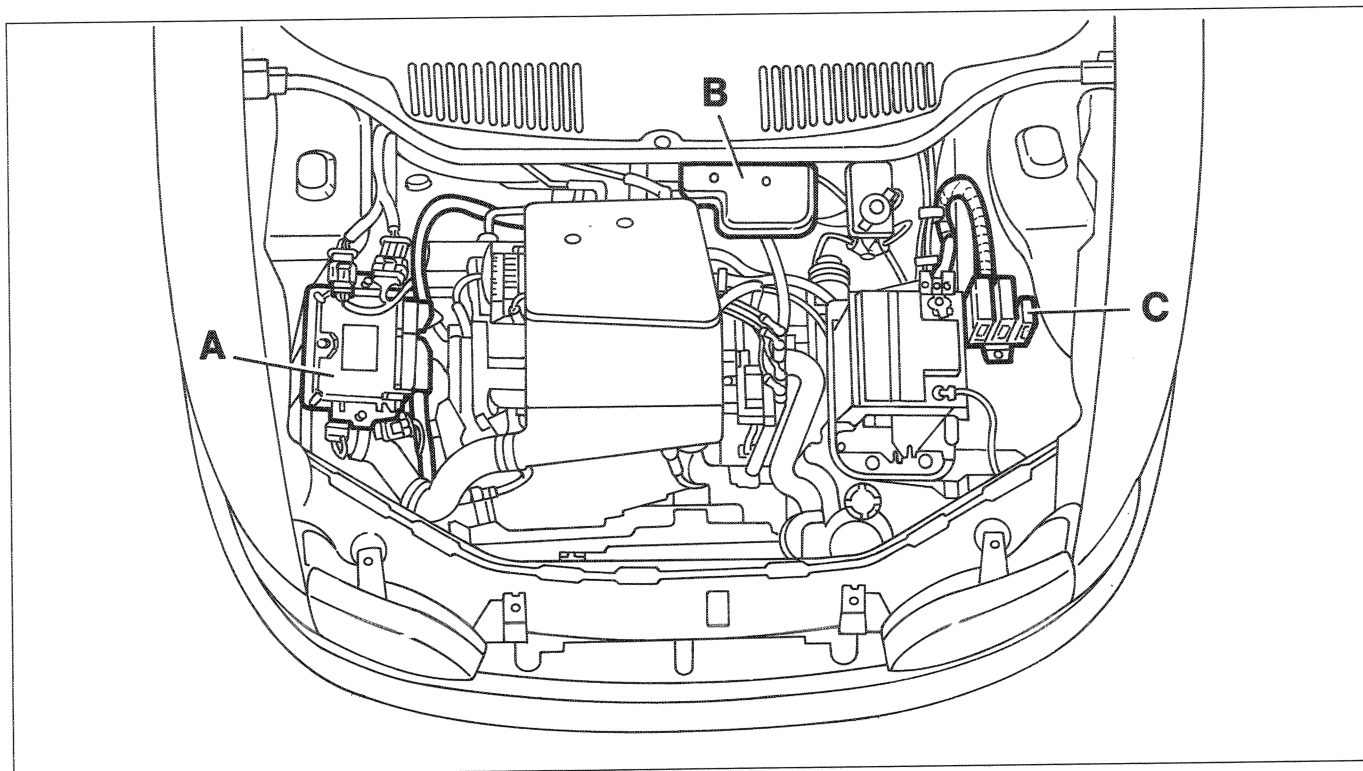


# PUNTO eMANUAL

Electrical Equipment

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**LOCATION OF CONTROL UNITS AND FUSES IN ENGINE BAY**



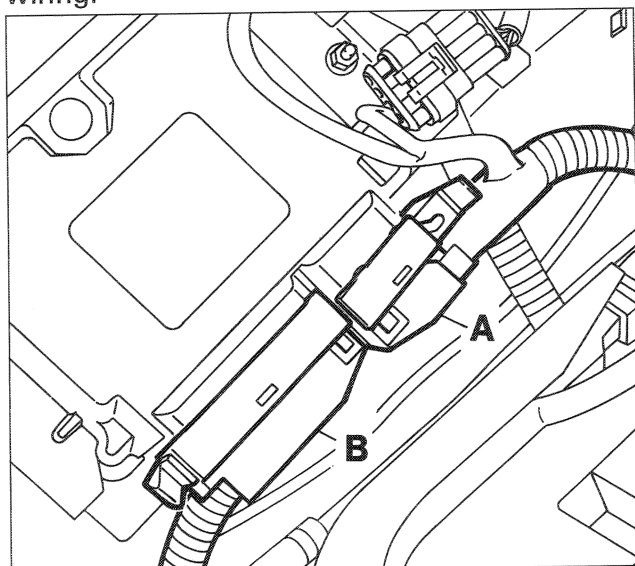
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- A. Injection-ignition ECU
- B. Fuses and relays on intake air pressure sensor mount
- C. Maxi Fuse

**IAW 49 F.D1 "RETURNLESS" INJECTION-IGNITION ECU**

**Introduction**

Unlike the control unit fitted to the previous version, the control unit on the IAW - 49 F.D1 injection-ignition system fitted to the 1242 MPI 8V version is connected to the electrical system by two separate connectors, one of which (A) connects the unit to engine wiring and another (B) connected to the front wiring.



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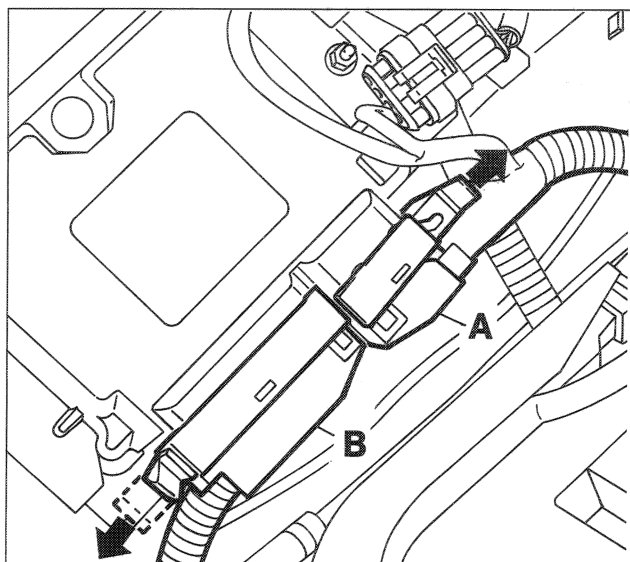


*It is absolutely forbidden to swap control units between different cars to check their efficiency. During testing, before replacing a control unit check that the component is really faulty because when a new control unit is activated, the Fiat CODE system secret code is stored and the control unit is totally unusable on other cars.*



*Unconnected pins may be live. No connections may therefore be made due to the risk of short-circuits and damage to the control unit.*

### 55.



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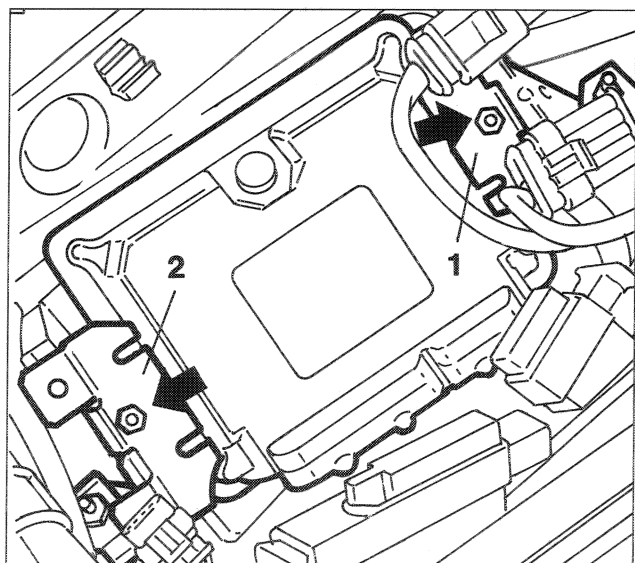
#### Removing-refitting injection-ignition ECU



*Fit and remove multiple connectors with the ignition key taken out of the ignition.*

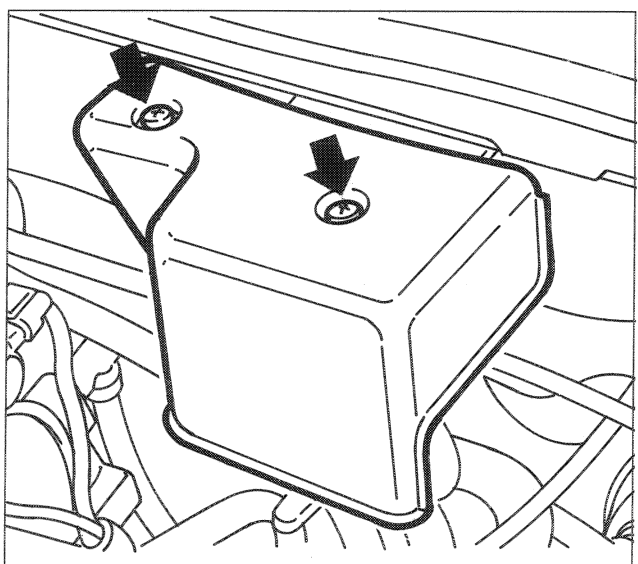
Remove the ignition key and disconnect the battery leads, then proceed as follows:

- disconnect connectors (A) and (B) by sliding the connection cursors in the arrowed direction;



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- unscrew the retaining bolts indicated and move brackets (1) and (2) out of the way, then remove the injection-ignition control unit from the car.
- Finish refitting by carrying out removal instructions in reverse order. Take care not to force the connectors onto the control unit.

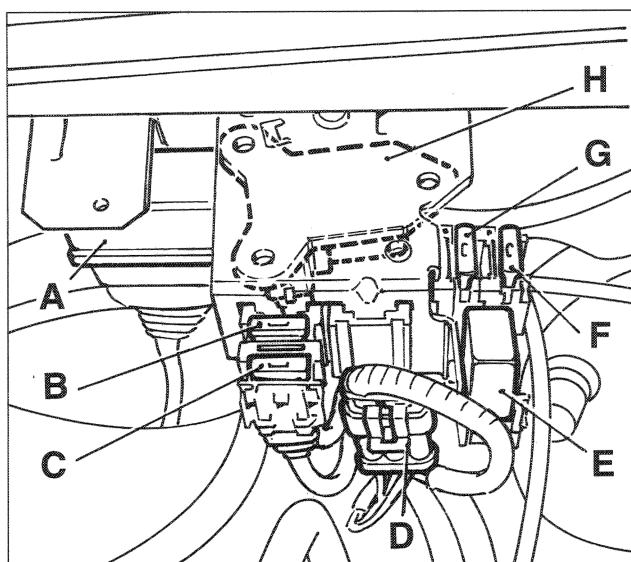


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#### FUSES AND RELAYS ON INTAKE AIR PRESSURE SENSOR MOUNT

#### Removing-refitting guard

Unscrew the bolts indicated and remove the relay and fuse mount guard from the car.

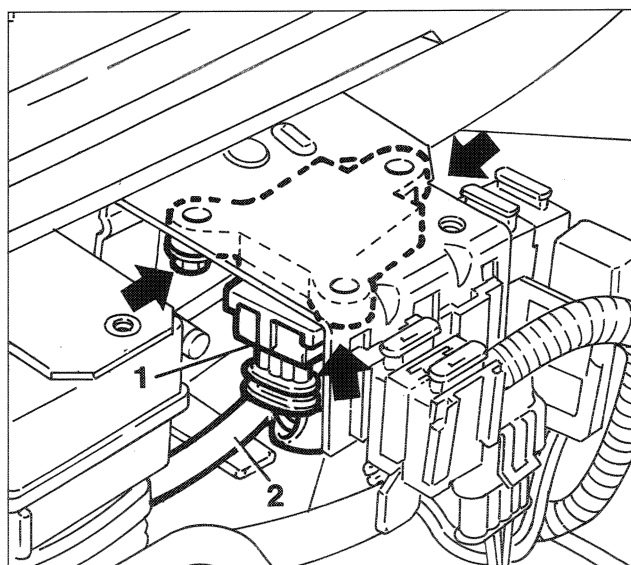


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### Component identification

- A. dual relay
  - B. fuse protecting injection-ignition ECU
  - C. Fiat CODE system fuse
  - D. pulse generator connection for speedometer signal
  - E. relay controlling radiator cooling fan (only for cars with heater)
  - F. lambda probe fuse
  - G. ABS system fuse
  - H. Intake air pressure sensor
- Check components for faults or damage and replace if necessary.

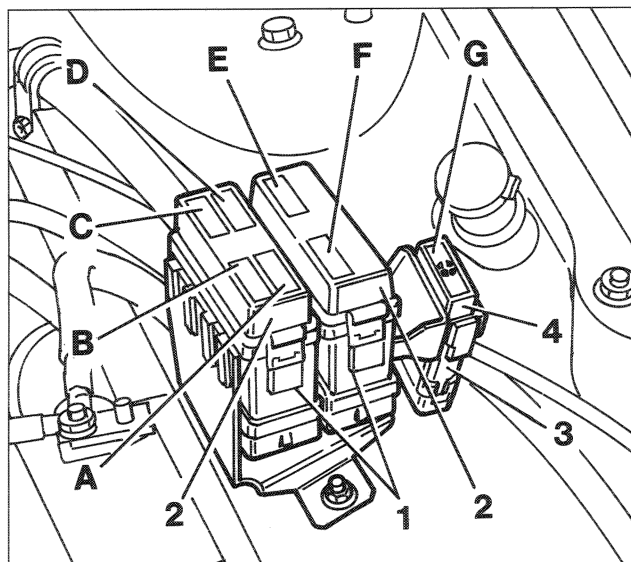


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### Removing-refitting intake air pressure sensor

- Disconnect electrical connection (1), undo retaining nuts indicated and remove the sensor from the mount. Disconnect pipe (2) connecting to the intake manifold and remove the sensor from the engine bay.
- to refit, carry out removal instructions in reverse order and ensure the intake manifold connection pipe and electrical connection are correctly positioned.



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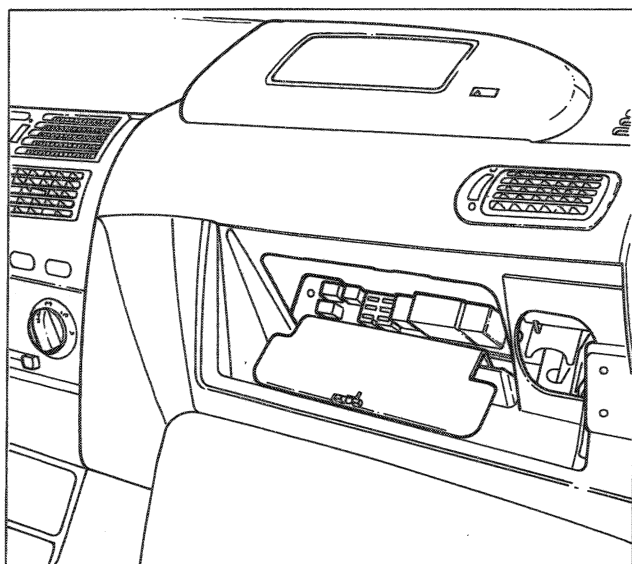


### MAXI-FUSE BOX FUSES

#### Fuse identification

- A. 40A fuse (IGN) for ignition system
- B. 30A fuse (EFI) for injection system
- C. 50A fuse (J/B2) for supplementary options
- D. 80A fuse (J/B1) for junction unit
- E. 40A fuse for ABS system
- F. 30A fuse for supplementary fan system
- G. 30A fuse (40A) for radiator fan system (\*) for versions with climate control system

Remove cover (2) from mounts (1) and cover (3) from base (4) to gain access to the MAXI-FUSE fuses.  
Check components for damage or faults and replace if necessary.



**OPTIONAL EXTRAS CONTROL UNIT**

**Location of optional extras control unit**

**NOTE** *The optional extras control unit is only fitted to the ELX - GT versions*

**View of optional extras control unit, connectors side**

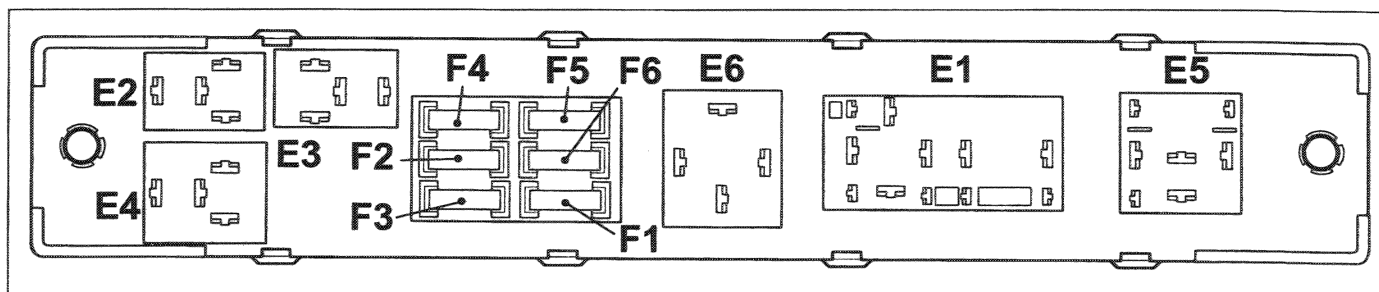
**Relays**

- E1. Electric front windows control unit
- E2. Front fog lamp relay
- E3. Rear fog lamp relay
- E4. Headlamp adjuster/dipped beam relay
- E5. Central door locking control unit
- E6. Power relay (sunroof)

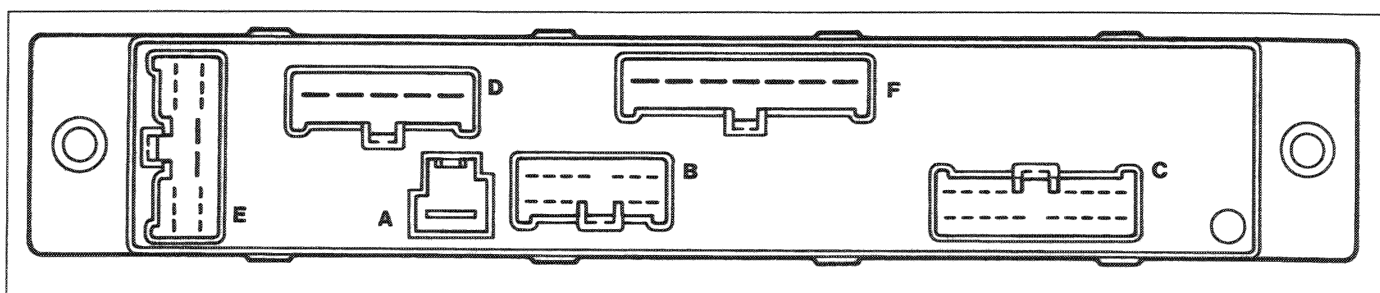
Fuse No.	Amp rating	Protected circuit
1	25	Electric windows
2	20	Front fog lamps
3	20	Door locking
4	20	Sunroof
5	30	Spare
6	30	Spare



*The connectors cannot be connected incorrectly, because each has its own particular shape. The letters identifying the connectors are the same as those used on the wiring diagrams.*



P3M01XL02



P3M01XL03