



ALIMENTATION

188 - Punto Classic

SUPPLY - DESCRIPTION

The entire electrical system has been designed and constructed in accordance with the most up-to-date guidelines concerning safety and protection, especially against fire risks.

There are two main kinds of protection:

- active protection, aimed at reducing possible causes of faults 'at source';
- passive protection, aimed at minimizing the effects of a possible fault.

The first kind involves the thoughtful design of wiring, attentive to location and anchorage, and the careful planning of properly protected cable routes.

Modifications have therefore been made to the alternator and starter motor cables, with the adoption of protective caps.

Passive protection instead includes all the interventions, which have always been adopted on vehicles, to reduce high fault currents (overload and short circuit).

All the fuses included in the system have been rated on the basis of the nominal absorption of the loads which cannot be served simultaneously, and so as to ensure intervention in the case of a definite short circuit.

All the electrical systems are supplied by the battery at a voltage of 12. V.

The battery is in turn recharged by the alternator during engine operation.

See E5010 STARTING AND RECHARGING

The main supply lines are protected by maxifuses, contained in two fuse boxes located near the battery and supplied directly from the latter.


The power supplies for all the services and systems are protected by specific fuses, contained in the junction unit, or bridge fuses. The bridge fuses are located under the dashboard either just above the junction unit, or on the right above the glove compartment.

All the power supplies are thus protected, except for the starter motor cable (battery-starter motor) and recharging cable (starter motor-alternator): these are protected by an additional shielded sheath.

Some circuits are supplied continuously, even if the vehicle is stopped and the ignition is off, as they are connected directly to the battery.

Other circuits are supplied by turning the ignition key to various different positions:

- when the key is inserted and turned to the first click, the ignition is turned on (MAR position) and several circuits are supplied, which are thus called 'ignition-operated' (lines 'INTE' and '15/54');
- the second click - start up position - supplies the starter motor; (line '50')., disconnecting some circuits (those which absorb most power), thus ensuring the maximum flow of current to the starter motor; ('INT/A' line).
- on the other hand, by extracting the key and turning it in the opposite direction (and pressing the special button) the PARK position is engaged which supplies the side lights even with the key switched off ('STAZ' and 'POS' lines); See E2010 SIDE LIGHTS / NO. PLATE LIGHTS 3119409.

 The lines through which the supply is distributed to the various electrical devices are shown on the wiring diagrams relating to the various functions and systems. This general diagram shows all the lines which depart from the battery, the maxifuse boxes and the ignition switch; reference should be made to the specific diagrams for greater detail.

SUPPLY - FUNCTIONAL DESCRIPTION

All the electrical equipment and systems are supplied by the battery

A001.

The supply for the various devices is controlled by two junction control units in the engine bay

B001 and under the fascia B002. These contain the fuses and the relays which allow the electrical apparatus to work properly.

L'alimentazione ai vari dispositivi sono gestite attraverso le due centraline di derivazione vano motore

B001

e sotto plancia

B002

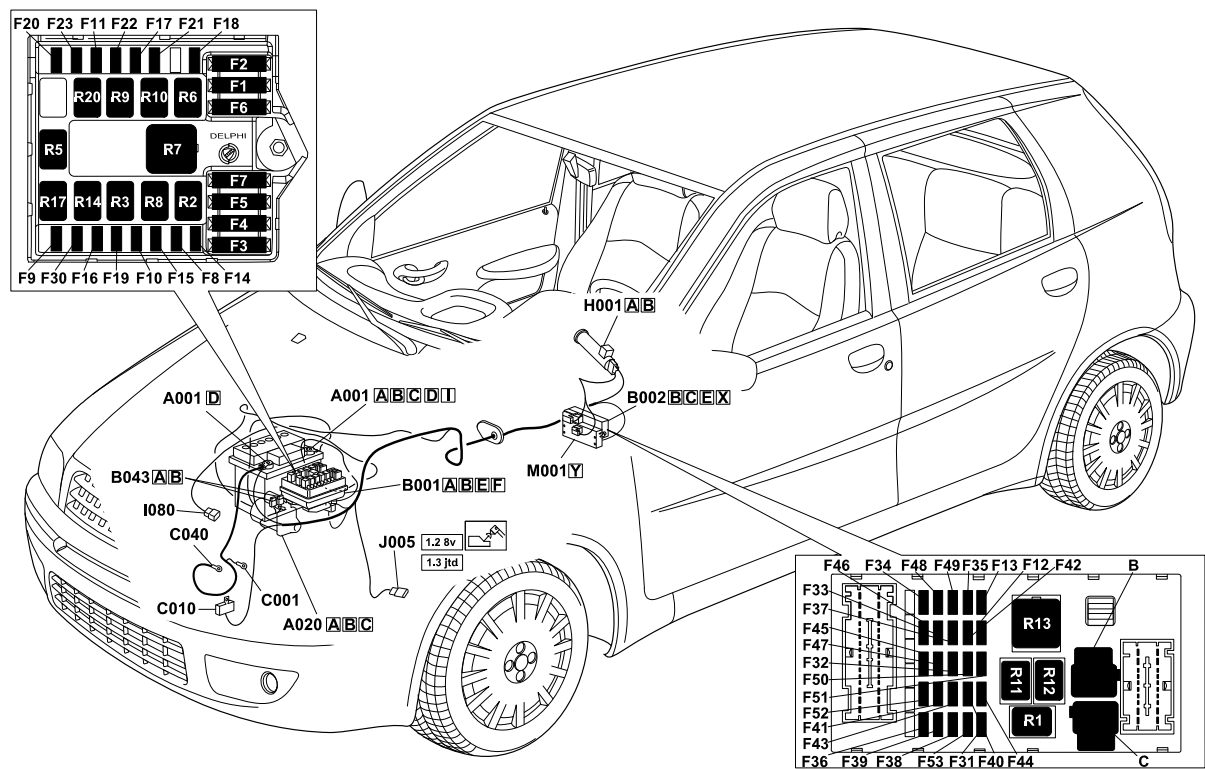
, le quali contengono i fusibili ed i teleruttori che consentono il corretto funzionamento dell'apparato elettrico

Other circuits are supplied by turning ignition key H001 to different positions:

- In the ON position, numerous circuits and services controlled by the ignition (INT line) are supplied, protected by fuses for the junction unit B001 and (line 15/54)
- in the AVV position - the starter motor is supplied; (line '50')See E5010 STARTING AND RECHARGING3119838;
- in the PARK position the side lights are supplied ('STAZ' and 'POS' lines);See E2010 SIDE LIGHTS / NO. PLATE LIGHTS3119409.

Component code	Name	Assembly reference
A1	Battery (+)	Op. 5530B battery and leads
A1	Battery (-)	Op. 5530B battery and leads
A1	Battery(-)	Op. 5530B battery and leads
A20	Starter' motor	Op. 5520B starter motor and components
B1	Engine compartment junction unit	-
B1	Engine compartment junction unit	Op. 5505A multi-function components
B2	Junction unit under dashboard	-
B2	Junction unit under dashboard	Op. 5505A multi-function components
B43	Robotized gearbox supply fuse	-
C1	Battery earth	Op. 5530B battery and leads
C10	Front left earth	Op. 5505A multi-function components
C20	Passenger side dashboard earth	Op. 5505A multi-function components
C40	Earth on engine	Op. 5505A multi-function components
D79	Transmission sensor junction	-
H1	Ignition switch'	Op. 5520A ignition switch

SUPPLY - LOCATION OF COMPONENTS



Component code	Name	Assembly reference
A1	Battery (+)	Op. 5530B battery and leads
A1	Battery (-)	Op. 5530B battery and leads
A1	Battery(-)	Op. 5530B battery and leads
A20	Starter' motor	Op. 5520B starter motor and components
B1	Engine compartment junction unit	-
B1	Engine compartment junction unit	Op. 5505A multi-function components
B2	Junction unit under dashboard	-
B2	Junction unit under dashboard	Op. 5505A multi-function components
B43	Robotized gearbox supply fuse	-
C1	Battery earth	Op. 5530B battery and leads
C10	Front left earth	Op. 5505A multi-function components
C20	Passenger side dashboard earth	Op. 5505A multi-function components
C40	Earth on engine	Op. 5505A multi-function components
D79	Transmission sensor junction	-
H1	Ignition switch'	Op. 5520A ignition switch