

DESCRIPTION

To increase protection against theft attempts, an engine immobilizer system known as the FIAT CODE-2 is used.

The keys are equipped with an electronic Transponder device that sends a coded signal to a special electronic CODE control unit. If the code transmitted is recognised as valid, the control unit allows the engine to be started.

Because the code used in the communication - which takes place via aerial - changes at each start-up (rolling code), the code may not be reproduced even using electronic scanners.

The CODE control unit and the engine management unit exchange information on the code received from the key inserted. If the code of the key in question is correct, the engine management control unit enables engine ignition.

The entire system is protected by dedicated fuses housed in the engine bay and under-facia junction unit and a further maxifuse housed in the battery control unit.

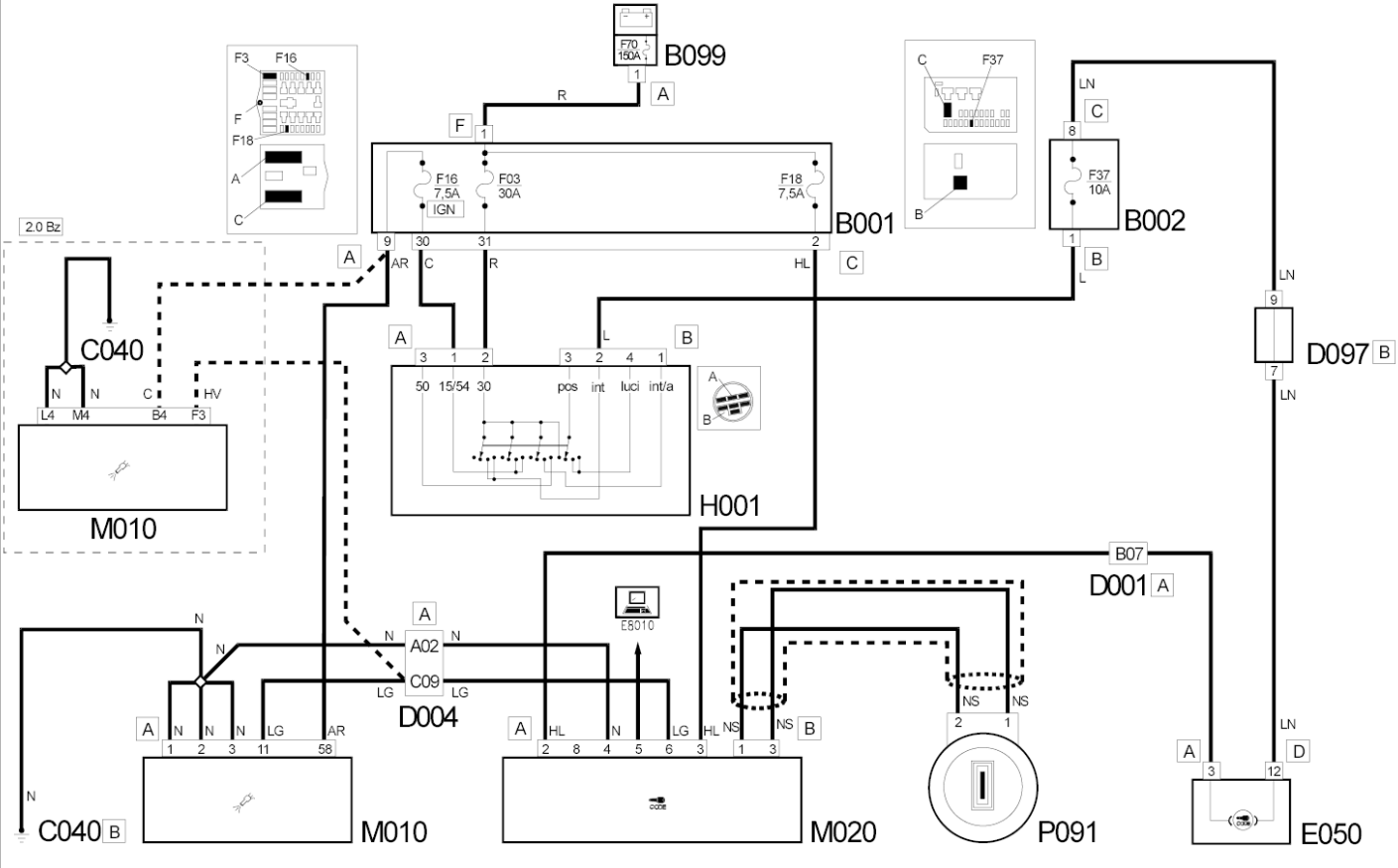
OPERATIONAL DESCRIPTION

Ignition switch H001 is supplied via the ignition at pin 2 connector A. The line is protected by maxifuse F70 housed in battery control unit B099 and a further fuse F03 housed in engine bay control unit B001.

When the ignition is turned ON, the power supply passes through a line protected by fuse F16 located in junction unit B001 to reach engine mangement unit M010, pin 58 (pin B4 connector A for 2.0 petrol versions).

CODE control unit M020 receives a key inserted code via transponder P091 and checks its validity by comparing it with codes stored in its memory.

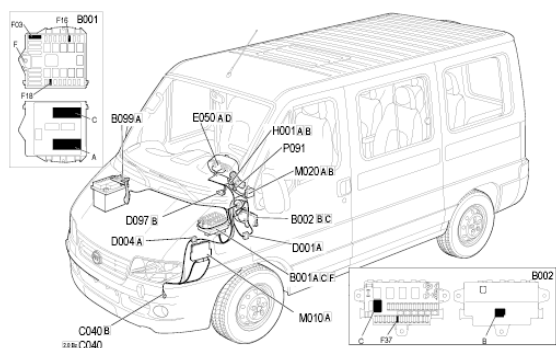
If the code is correct CODE control unit M020 enables control unit M010 to start the engine as soon as required and simultaneously controls activation of the warning light on instrument panel E050 by earthing pin 2 of its own connector B.



COMPONENTS

Component code	Description	Reference to the assembly
B001	JUNCTION UNIT	
B002	JUNCTION UNIT UNDER DASHBOARD	-
B099	MAXI FUSE BOX ON BATTERY	-
C040	ENGINE EARTH	-
D001	FRONT/DASHBOARD COUPLING	-
D004	FRONT/ENGINE COUPLING	-
D097	SHORT CIRCUITING COUPLING	-
E050	INSTRUMENT PANEL	-
H001	IGNITION SWITCH	-
M010	ENGINE MANAGEMENT ECU	-
M020	CODE CONTROL UNIT	-
P091	AERIAL FOR FIAT-CODE	-

## LOCATION COMPONENTS



E7010



[Full-size](#)

Component code	Description	Reference to the assembly
<a href="#">B001</a>	JUNCTION UNIT	
<a href="#">B002</a>	JUNCTION UNIT UNDER DASHBOARD	-
<a href="#">B099</a>	MAXI FUSE BOX ON BATTERY	-
<a href="#">C040</a>	ENGINE EARTH	-
<a href="#">D001</a>	FRONT/DASHBOARD COUPLING	-
<a href="#">D004</a>	FRONT/ENGINE COUPLING	-
<a href="#">D097</a>	SHORT CIRCUITING COUPLING	-
<a href="#">E050</a>	INSTRUMENT PANEL	
<a href="#">H001</a>	IGNITION SWITCH	
<a href="#">M010</a>	ENGINE MANAGEMENT ECU	-