



MASSE

290/295 - Ducato FL 2014

## VOLUMES - DESCRIPTION

The following diagram shows the various earths on the vehicle. The associated circuits are shown for each earth.

In this way it is easy to identify these circuits which are connected to earth by the same line; this facilitates the job of searching for faults if there are problems involving more than one function (for example, the oxidization of an earth may put various circuits "out of operation" simultaneously and numerous functions connected to them).

For versions with Start&Stop system, the adoption of the battery charge status sensor IBS located on the negative battery pole led to the use of a quick-release negative terminal ("RADSOK" type connector), through which the sensor is connected to the system power earth on body.

With this solution there is no connection on the negative battery pole. In this way all current consumption is detected by the IBS sensor: otherwise the battery status could not be evaluated correctly.



When jump starting, never connect the negative lead (-) of the auxiliary battery to the negative pole C of the vehicle battery and/or to the IBS sensor pin, but rather to an earth point of the vehicle.

## VOLUMES - FUNCTIONAL DESCRIPTION

The earths listed below present on the vehicle are categorised according to their relationship with the various wires.

Negative battery wiring:

- battery negative cable, A001 B (through "RADSOK" connector of the battery charge sensor K059 for versions with Start&Stop)
- battery earth on engine, C002
- battery earth on bodysheel, C003 A (near the battery) and C003 B (in the engine compartment)

Radiator wiring:

- radiator earth, C045

Front wiring:

- left front earth, C010 A and C010 B
- front right earth, C011
- ABS front earth, C012
- power steering earth, C014 (only for 2.3 JTD EURO 6 version with SCR - Selective Catalyst Reduction - ECO version -)
- radiator earth, C045 (for 2.3 JTD EURO 6 version with SCR - Selective Catalyst Reduction only)
- fuel injector control module earth, C060 (diesel versions)
- methane injection control unit earth, C062
- robotised gearbox control unit earth, C108

Engine wiring (only for version 3.0 Natural Power):

- injection control unit earth, C060
- earth ignition coils, C105 A-B-C-D

Dashboard wiring:

- central dashboard earth, C022 A and C022 B
- airbag system earth, C050 A

air conditioning/heater wiring:

- air conditioning unit earth, C016

Left longitudinal wiring:

- earth on rear axle, C102
- urea/AdBlue system earth, C117 (2.3 JTD EURO 6 version with SCR - Selective Catalyst Reduction only)
- urea/AdBlue system earth, C117 (2.3 JTD EURO 6D version only)

Urea/AdBlue system control harness:

- urea/AdBlue system earth, C117 B (2.3 JTD EURO 6D version only)

Right longitudinal wiring (only for Van, Ambulance setup, Combi and Panorama versions):

- left rear earth, C030
- right rear earth, C031

Rear light crossmember harness (for Cab and Twin cab versions only):

- left rear earth, C030

Cab wiring:

- cab earth, C100
- airbag system earth, C050 B
- battery switching earth (B.D.S.), C104

OPT cab wiring:

- right side front door access platform earth, C098
- rear camera setup earth, C098 B
- OPT cab earth, C099

Twin cab wiring:

- twin cab earth, C101

Injection control unit earth harness (only for 2.3 JTD and 3.0 Natural Power versions):

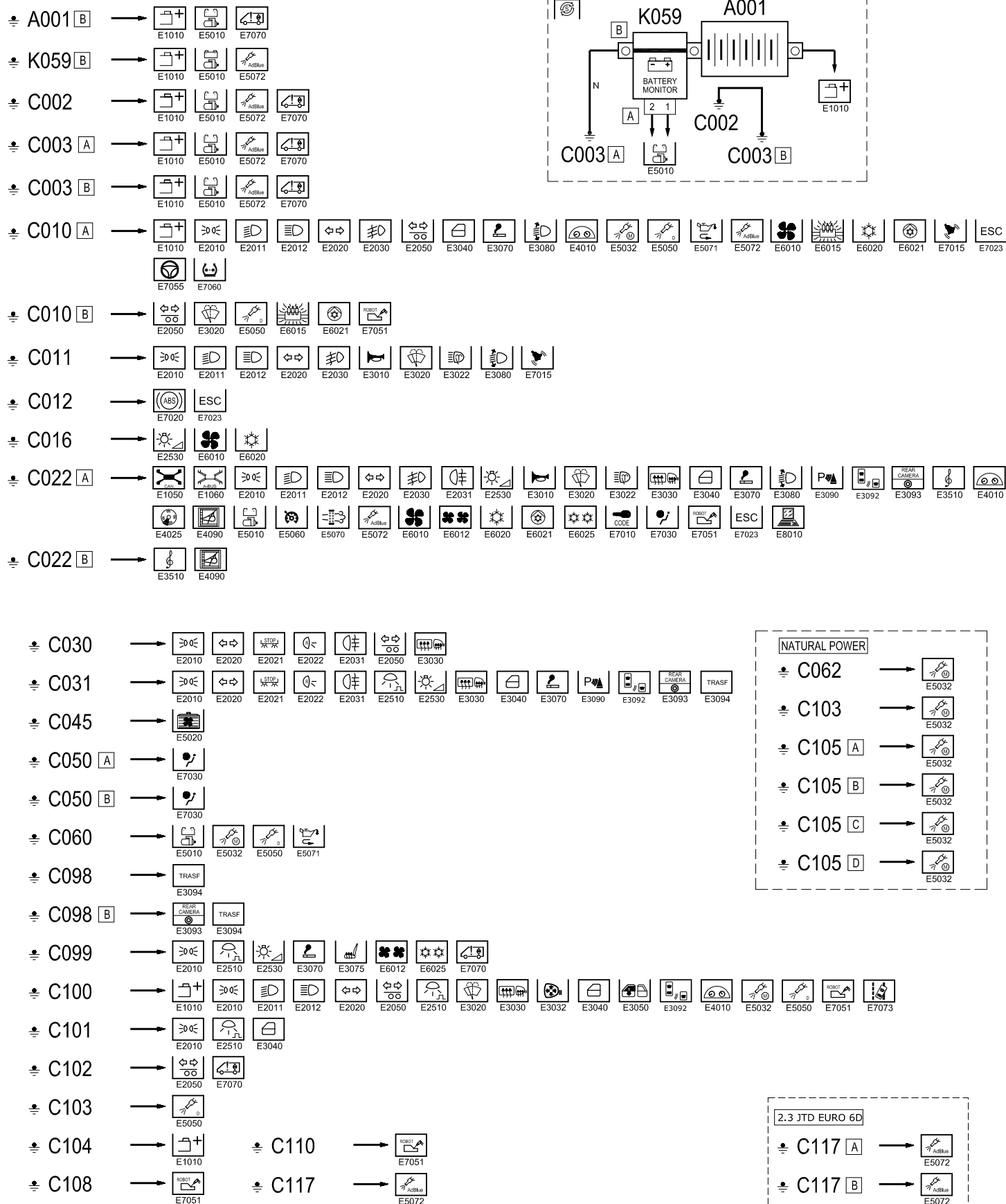
- earth on strut, C103

Robotised gearbox harness:

- robotised gearbox pump earth, C110



# VOLUMES - WIRING DIAGRAM





# VOLUMES - COMPONENT LOCATION

