

OBU FIXED INSTALLATION

Toll4Europe recommends providing permanent power to our OBUs using a fixed cable installed by a professional service instead of the connection via cigarette lighter plug.

The OBU package of the Toll4Europe OBU contains a three-threaded cable which can be used for a fixed installation:

OBU connection:

- socket Micro-Fit 3.0
- 4 circuit receptacle in combination with a Molex connector
- type 43025-0400.



Vehicle connection:

- Cigarette lighter plug
- Whereas both, the ground wire (**brown**) and ignition cable (**black**) are connected to GROUND and the **red** wire is fixed to PLUS.



For the fixed installation with the standard cable, the cigarette lighter plug needs to be removed (i.e. cut off) whilst the Molex connector stays with the cable. The ignition (**black**) and ground cable (**brown**) must be separated, and all three wires of the cable have to be firmly installed in the vehicle to the respective connectors (terminal 15 = ignition = **black**, terminal 30 = plus = **red** and terminal 31 = ground = **brown**). Please note that this installation must be carried out in accordance with the applicable standards and best practices (i.e. lege artis) which also includes fusing the electrical connections with min. 2A.



If a fixed installation is applied to an **ADR** vehicle, then the OBU **MUST NOT** contain a battery. The OBU will be powered by the vehicle's board network – only during loading/unloading the OBU is completely shut down (reboot) when switching off the board network completely (separate switch – standard in ADR trucks).



Recommendations

- The installation shall be performed by professional services (i.e. truck workshop or car service)
- The internal (buffer) battery **MUST NOT** be removed for regular vehicles
- The internal (buffer) battery **MUST** be removed for **ADR** vehicles (carrying dangerous goods)

Re-use of cables from different suppliers

Satellitic:

The Toll4Europe OBU can be connected to existing cables of the Satellic OBU. Adapter plugs can be reused.

Toll Collect:

As there exist different Toll Collect (TC) OBUs, a general advice on the reuse of TC OBU cables is **NOT** possible as additional adapter plugs might or might not be necessary due to the different voltage feeds. However, if a Satellic OBU has been connected previously to "old" TC cables, the same connection can theoretically be established (using the existing adapter plugs) under professional supervision following the instructions in the manual. Especially when using the enclosed TC cable, fuses must be used according to the instructions in the manual, which also contains an indication of the cable colours. On the top of this page, you will find information about what kind of plug and what pin assignment is necessary if a connection needs to be established.