



Connecting a 13-pin towbar wiring kit: What is +30 (steady plus) and +15?

In the automotive industry, the codes (+30) and (+15) are standard references to identify the electrical supply points in a vehicle circuit.

(+30): Indicates the 12V (nominal voltage) or 24V (nominal voltage) battery of the vehicle. Simply put, it is the positive pole of the battery – a high voltage electrical supply point on the vehicle.

(+15): Refers to the power supply that is activated when the ignition key is in the 'run' position, allowing power to flow to certain components of the vehicle.

Application

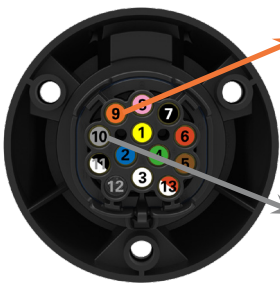
When towing a trailer, (+30) and (+15) are used to transfer current to caravans or special trailer equipment. Pins 9 and 10 of a 13 pins socket (ISO 11446) are reserved for the following purposes:

Pin 9 (+30): Steady Plus

- Interior light of caravan
- Electronic stabilizers (ATC)
- Energy-efficient appliances
- ...

Pin 10 (+15): Charging line

- Auxiliary battery
- Air conditioning an ventilation systems
- High-power household appliance
- ...



To learn more about the contact allocation of a 13-pin socket, scan or click the QR-Code



Extension Kits

On the last pages of the fitting instructions of the ERICH JAEGER wiring Kits you can find the corresponding extension kits for the (+30) and the (+15) connections. These are complete sets with all necessary components: connectors, terminals, fuse holders, relay,...

721075: Only (+30) connection,
721077: Both (+30) & (+15),
721074: Only (+15) as the steady plus is already on E-Kit as standard.

Our optional extension kits 721077 and 721074 include a voltage control relay (Part Number 321061) that automatically closes the circuit when the battery level is higher than 13,6V and it interrupts it once voltage drops below 12,8V to avoid the battery to discharge.

