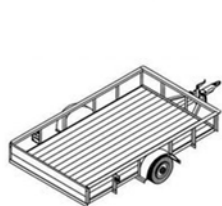
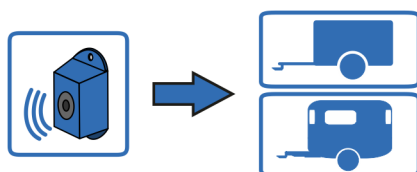


System that facilitates parking a car with a trailer



Application:

- Cargo trailers or caravans;
- 13-pin trailer plug.












Short description:

The TPA Trailer Parking Assistant is an autonomous device that helps the driver park backwards with a towed trailer. The device works on the same principle as the more and more commonly used parking sensors used in passenger cars. The only difference is in the way the driver is informed about the distance to the obstacle and its position relative to the parking vehicle. In the autonomous trailer parking sensor the signaling takes place through:

- modulated sound signal;
- generating a radio frequency signal in the range of 88.0..999.9 MHz modulated with an audible signal indicating the distance from the obstacle. The parking sensor signal is received by a standard car radio receiver tuned to the frequency of the transmitted signal;
- displaying information on additional, multi-functional trailer outline lamps. During normal forward driving, the trailer additional PDC lamps behave like standard outline lights: when the car tail lights are on, the trailer additional PDC lamps light red in the reverse direction and light white in the forward direction (not applicable for the A7 lamp version). When parking rearwards, additional trailer PDC lamps take on the function of signaling distance from an obstacle by emitting modulated green, yellow and red light. The TPA Trailer Parking Assistant is completely mounted on the trailer and does not require additional modifications to the vehicle electrical system. The system is powered directly from a ISO 11446 / DIN 72570 standardized trailer plug through tail light or reverse light voltage. All system modules communicate with each other via a 1-line LIN bus, which significantly simplifies its installation.

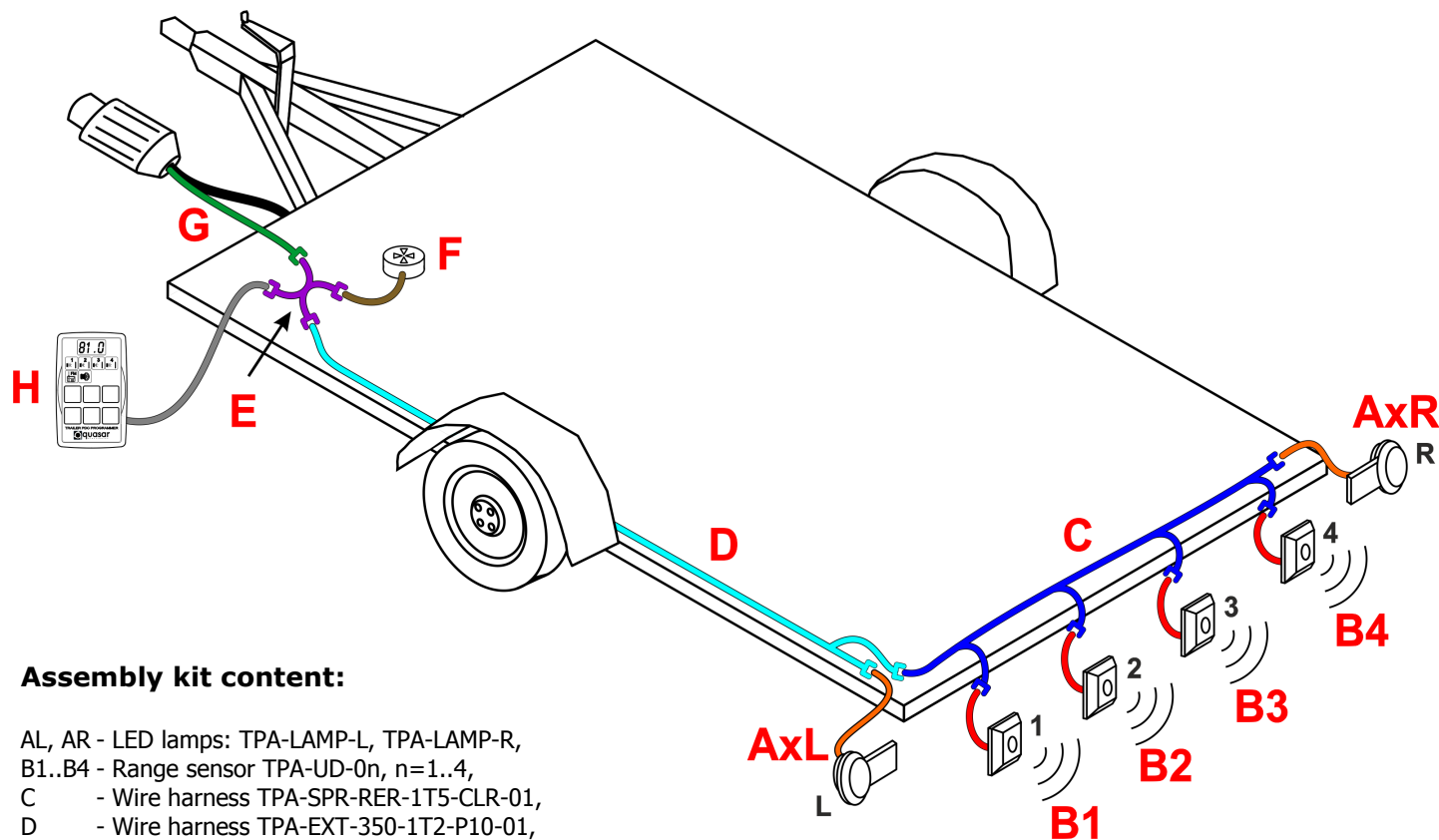
Main features :

-  **13** Interoperation with 13-pin trailer plug
-  signaling the distance between the trailer and the obstacle
-  sound signaling
-  optical signaling using trailer additional multicolor LED outline lamps
-  sound signaling through the car radio
-  **4 x** Four ultrasonic range detectors
-  independent sensitivity adjustment for each detector
-  single-line communication of system modules
-  plug-in installation that does not require soldering or crimping connectors



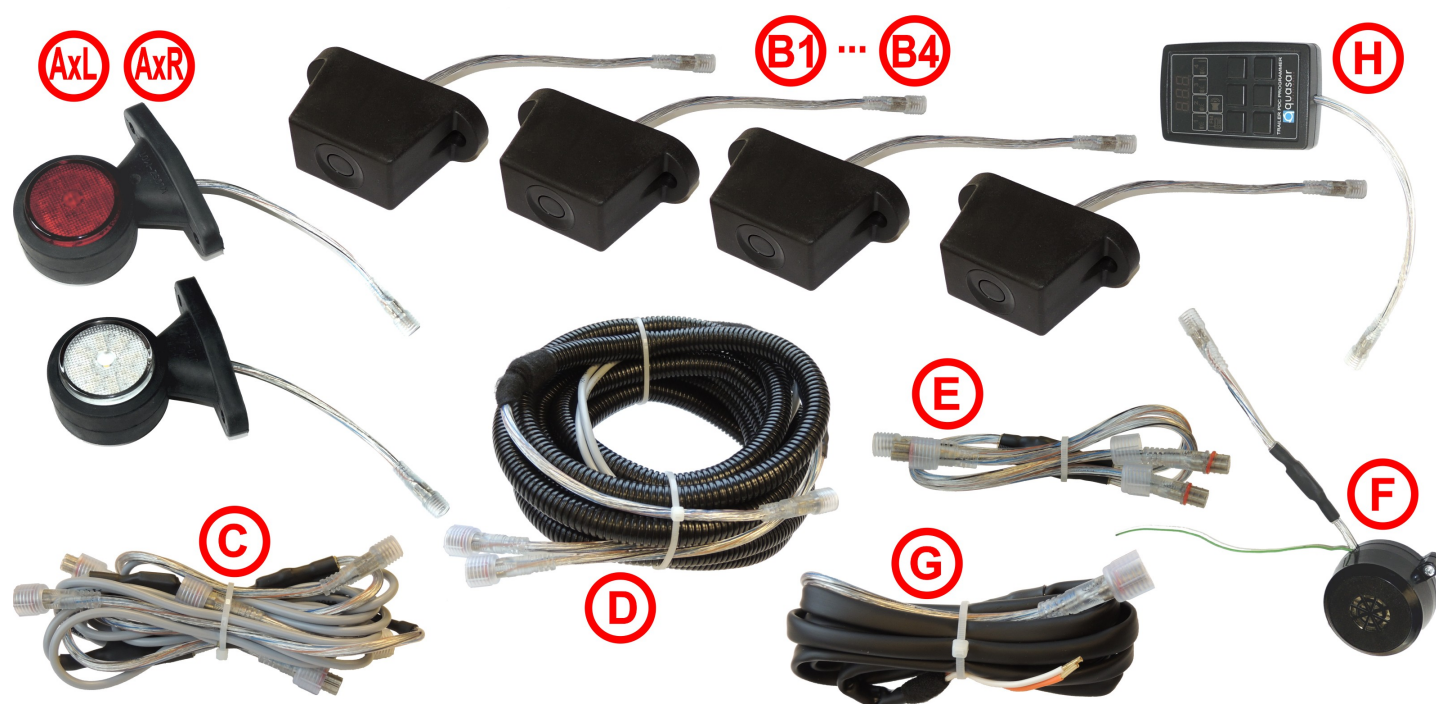
System that facilitates parking a car with a trailer

View and arrangement of system components:



Assembly kit content:

- AL, AR - LED lamps: TPA-LAMP-L, TPA-LAMP-R,
- B1..B4 - Range sensor TPA-UD-0n, n=1..4,
- C - Wire harness TPA-SPR-RER-1T5-CLR-01,
- D - Wire harness TPA-EXT-350-1T2-P10-01,
- E - Splitter TPA-SPR-040-1T3-CLR-01
- F - Sound beeper with FM transmitter: TPA-MASTER,
- G - Wire harness TPA-PWR-170-1T1-S10-01,
- H - TPA system programmer (additional equipment).



System that facilitates parking a car with a trailer

LED lamps variants:

