

How to pick up your COBRA trailer in the port

When you go to the port to pick up your new glider with a COBRA trailer you should check some important things:

First please look for damage on the outside of the trailer, broken light lenses, bent handles or scratches on the surface. Depending on the tide the ramps to the ship have often too much angle for long trailers. This may result in bent rear stands, damaged jockey wheels or bent brake rods.

Underneath the trailer, on the right side of the axle is a key taped. With this key you can open the trailer and inspect your glider.

If there is anything wrong please report immediately to the shipping company and to us ! Do this in the harbour and show the damage to the agent. Later reports without the confirmation of the agent will not be accepted from the insurance company.

Warning: All Cobra trailers have a two inch coupling, please make sure your car is equipped with a ball in the same size. A wrong ball size may result in a loss of the trailer. Make sure that the coupling is safe on the ball before driving.

Warning: Before driving make sure that the hand brake is released and the brake rod and the brake cables of the overrunning brake can move slightly.

A closed handbrake or a blocked brake rod or damaged brake cables can heat the wheel bearings and may result in serious accidents (loss of wheels).

Cobra trailers are equipped with an international 7-pin (round) wiring system, or on customers request with an 7-pin (flat) RV plug (USA style).

1.) 7-pin (round) plug:

The numbers are printed in the plug near the pins.

Pin-No.:	wire-color:	Function:
1 / L	yellow	left hand turn light
2 / 54G	blue	fog light (if requested)
3 / 31	white	ground
4 / R	green	right hand turn light
5 / 58R	brown	right hand tail light
6 / 54	red	both brake lights
7 / 58L	black	left hand tail light

When you pick up your trailer with an American car with a US 4-pin trailer plug you will need a converter and some small changes in the rear lights.

Sorry, we cannot do this before delivery. All trailers go on their own wheels to the port and must meet German laws when driving in Germany. Also some gliderpilots like to use the 7-pin system also on their American cars.

The tools you will need are a phillips head screwdriver, a knife to remove the insulation and a pair of pliers to press the plugs on the wires. On material you should provide a US 4-pin trailer side connector.

1. Open the tail light lenses with the screw driver
2. Disconnect the left hand and right hand flat plug (red wire) of the light bulb in the center of the lights
3. Disconnect the wires of the light bulbs in top of the lights (left hand yellow, right hand green) and plug this wires on the light bulbs in the center of the lights.

4. Close the tail light lenses.
5. Now open the trailer side 7-pin connector (in front of the trailer) by turning the plastic nut over the cable by hand anti-clock-wise. Push the little hook on the side of the plug outwards. Then the plug will open like a book.
6. Disconnect the brown and the black wires, cut off the plugs and remove insulation.
7. Give both wires together and press a new flat plug on. Connect this two wires to number 7/58R. Close the trailer plug in the opposite way as described before.
Make sure that the nose of the plastic part that holds the pins rests in the right slot of the outer shell. The plug must close slightly
8. In the front box of your trailer there is a car side 7-pin connector and some flat plugs. Connect both, the car side and the trailer side plugs together.
9. Take your US 4- pin trailer connector and press a flat plug on each wire.
10. Connect this wires with the pins on the rear side of the car side 7- pin connector in the way described below.

Wire colors of the US 4- pin connector	Function:	Pin-No. printed on 7-pin connector	Wire colors of the 7-pin connector
white	ground	3 / 31	white
brown	tail light right + left	7 / 58 R	brown
yellow	left hand turn signal	1 / L	yellow
green	right hand turn signal	4 / R	green

If you connect the US plug direct to the trailer do like described above and connect the brown wire of your 4 pin connector to both the brown and the black wire of the trailer.

2.) 7-pin (flat) RV plug (USA style)

The numbers are printed in the plug near the pins.

Pin-No.:	wire color:	Function:
1	white	ground
2	free	free
3	brown	right hand tail-light, right side-marker-lights
4	black	left hand tail-light, left side-marker-lights, licence plate light
5	yellow	left hand turn light
6	green	right hand turn light
7	red	both brake lights

Please check the proper working of all the lights before driving !

You can find a wiring scheme on our homepage <http://www.cobratrailer.com> under technics.

If you have any questions, comments or problems, please don't hesitate to call us.

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Have a save trip with your new COBRA-trailer and many happy flights with your new glider !

Your COBRA-Team

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