

LEGEND:

- F1: 5A fuse connected to the vehicle battery to power the side marker lights
 F2: 20A fuse connected to the service battery to power the fridge
 F3: 30A/20A fuse connected directly to the service battery to power the Webasto (30A) or Auxiliary (20A)
 F4: 15A fuse connected directly to the service battery to power the step
 F5: 15A fuse connected to lights master switch to power the group of lights_1
 F6: 15A fuse connected to lights master switch to power the group of lights_2
 F7: 10A fuse connected directly to the service battery to turn on the fridge and heater and to the pump switch to power the water pump
 F8: 10A fuse connected directly to the service battery to the courtesy light and external light switch
 F9: 15A fuse connected to the AUX switch

Attention:

When replacing faulty fuses, observe the correct amperage.

OPERATION:**Power activated from control panel:**

The outputs for internal lights (lights_1 and lights_2), external light, pump and aux are activated directly by the relevant keys on the control panel.
 -If the service battery voltage remains under 10.5V for over three minutes, the NE355 shunt automatically turns off all the power for lights, pump and aux. To recharge press the relevant keys on the control panel. If the battery is still under 10.5V, it will be deactivated again after three minutes. In this case is advisable to disconnect all loads with the battery main switch and recharge the battery services within 2 days.

Car battery recharge:





If there is the main supply 230V, the shunt charges the car battery with a current of about 2A. The charge is activated automatically when the battery voltage exceeds the services of the car battery.

Side marker signal:

The side-marker output can be activated with a negative control (negative) on the JP13 block pin 5, or with a positive control (+12V) on the JP13 block pin 4.

Services activated by D+:

The coupler relay⁽¹⁾ and fridge relay are enabled immediately in one of these two conditions:

 +key JP13 pin 1	+	+	+key JP13 pin 1	 D+
 +12V	or	 +Alternator JP13 pin2	+12V	JP13 pin 6 on

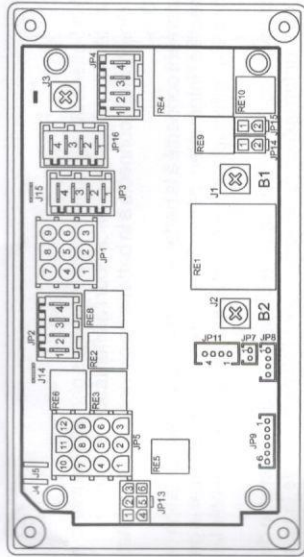
The coupler relay⁽¹⁾ recharges the service battery with the alternator when the engine is running. The fridge relay powers the three purpose fridge at 12V when the engine is running. With the engine running the external light automatically turns itself off.

⁽¹⁾ If there is a connection between J14 and J15 the coupler relay is not enabled. (presence of external DC / DC converter)

ATTENTION: DC / DC converter:

If you use the DC / DC converter to charge the services battery, make the connection between J14 and J15. In this mode the coupler relay (RE1) is not enabled when the engine is running.

If the vehicle not in use and the connection 230V is not present disconnect the battery service with the battery main switch.

**JP1 : NEGATIVE**

- 1.2.3.4.5.6.7.8.9: NEGATIVE

JP2: LIGHT OUTPUT (BLACK)

1. LIGHTS_2 (+) (F6 15A)
2. LIGHTS_1 (+) (F5 15A)
3. NEGATIVE
4. NEGATIVE

JP3: STEP OUT, TRUMA (RED)

1. Webasto / Auxiliary output (+) (F3 30A/20A)
2. STEP output (+) (F4 15A)
3. NEGATIVE
4. NEGATIVE

JP4: FRIDGE OUTPUT (WHITE)

1. Direct fridge output (+) (F2 20A)
2. Fridge output (+) activated by relay (F2 20A)
3. Gas ignition power supply (+) (F7 10A)
4. NEGATIVE

JP5: POWER OUTPUTS

- 1.4.5.7.8: AUX output (+) (F9 15A)
9. Heater ignition output (+) (F7 10A)
12. PUMP output (+) (F7 10A)
6. External light output (+) (F8 10A)
- 2.3. Courtesy light output (+) (F8 10A)
- 10.11. Output step in (max 1A)

JP7: RECYCLE TANKS (R1)

1. NEGATIVE
2. FULL recycle tanks R1

JP8: RECYCLE TANKS (R2-R3)

1. NEGATIVE
2. FULL recycle tanks R2
3. NEGATIVE
4. FULL recycle tanks R3

JP9: TANKS (S1)

1. NEGATIVE
2. 1/4 drinking water tank S1
3. 2/4 drinking water tank S1
4. 3/4 drinking water tank S1
5. 4/4 drinking water tank S1
6. N.C.

JP11: CONTROL PANEL

4-pole connector to connect the control panel with the cable provided.

JP13: D+ CONTROL INPUT, SIDE MARKER, POWER MAIN

1. +Key-on input (C036L1A-13)
2. D+ input from alternator
3. POWER MAINS ON input from battery charger
4. Side Marker positive control input
5. Side Marker negative control input (C036L1A-11)
6. D+ negative control input (C036L1A-2)

JP14: SIDE MARKER LEFT OUTPUT

1. Side Marker left output (+) (F1 5A)
2. NEGATIVE

JP15: SIDE MARKER RIGHT OUTPUT

1. Side Marker right output (+) (F1 5A)
2. NEGATIVE

JP16: OPTION FOR SOLAR PANEL (GREEN)

1. Free (F2 20A)
2. SOLAR PANEL +Service Battery (F4 15A)
3. Free (F7 10A)
4. NEGATIVE

J1: AUTO BATTERY INPUT

Input +CAR battery (B1)

J2: SERVICE BATTERY INPUT

Input + LEISURE battery (B2)

J3: NEGATIVE

NEGATIVE

J4, J5 : D+ OUTPUT

Positive output (pic 0.5A) to activate all charges operating with engine running (e.g. fridge AES, aerial entry, discharge valves, etc.)

J14 : PRESENCE DC-DC

1. Presence DC-DC (connects to the negative)

J15 : NEGATIVE