



NORDELETTRONICA

NE185D-11

- I** ISTRUZIONI D'USO
- GB** INSTRUCTIONS MANUAL
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- D** BEDIENUNGSANLEITUNG
- E** INSTRUCCIONES PARA EL USO



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LEGEND:

- F1: 5A fuse connected to the vehicle battery to power the side marker lights
 F2: 20A fuse connected to the vehicle battery to power the fridge
 F3: 15A fuse connected directly to the service battery to power the step
 F4: 30A fuse connected directly to the service battery to power the Webasto / Auxiliary
 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 external light and courtesy light switch
 F9: 15A fuse connected to the AUX switch

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

The outputs for internal lights (lights_1 and lights_2), external light, pump, aux. and heater control are activated directly by the relevant keys on the control panel.
 -The external light goes out automatically when the engine is running
 -If the service battery voltage remains under 10V for over a minute, the NE185 shunt automatically turns off all the power for lights, pump, aux. and heater. To recharge press the relevant keys on the control panel. If the battery is still under 10V, it will be deactivated again after one minute.

Services activated by D+:

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

Ⓜ	+Alternator JP6 pin1	or	KEY-ON Ⓜ	+key JP13 pin 3	D+ Ⓜ	D+ JP13 pin 2
	+12V			+12V		on

The coupler relay 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.

Side marker signal:

The side-marker output can be activated with a negative control (negative) on the JP13 block, pin 4, or with a positive control (+12V) on the JP13 block, pin 1.

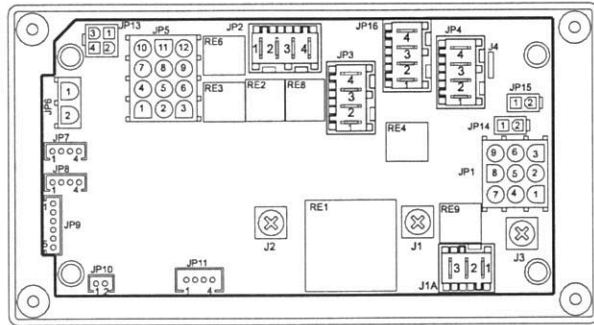
Car battery recharge:

The coupler relay recharges the starting battery with the charger battery when there is a 230V mains supply.

The relay is excited when the service battery exceeds 13.5V and automatically drop out when the 230V mains supply is turned off or the service battery voltage is below 12.8V.

Managing reservoirs:

This shunt can read different tanks with different levels using appropriate connections, JP8, JP7 and JP9. With reference to the display panel control operator.
 In the "retail links" (in this case) and shows how to connect a tank with drinking 3 / 3 and two tanks recovery 3 / 3.

**J1: AUTO BATTERY INPUT**

1. Input + AUTO battery (B1)

J1A: AUTO BATTERY

- 1.2. NEGATIVE
3. +AUTO battery (B1)

J2: SERVICE BATTERY INPUT

1. Input + SERVICE battery (B2)

J3: NEGATIVE

1. NEGATIVE

J4: D+ OUTPUT

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

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 (+) (F4 30A)
2. STEP output (+) (F3 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 ignitin power supply (+) (F7 10A)
4. NEGATIVE

JP5: POWER OUTPUTS

9. Valve output (+) (F7 10A)
- 1,4,5,7,8. AUX output (+) (F9 15A)
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)

JP6: D+ INPUT, POWER MAIN ON

1. D+ input from alternator
2. POWER MAIN ON input from battery charger

JP8: RECYCLE TANKS (R1)

1. NEGATIVE
2. 1/3 recycle tanks R2
3. 1/3 recycle tanks R2
4. 1/3 recycle tanks R2

JP7: RECYCLE TANKS (R2)

1. NEGATIVE
2. 1/3 recycle tanks R2
3. 1/3 recycle tanks R2
4. 1/3 recycle tanks R2

JP9: TANKS (S1)

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

JP11: CONTROL PANEL

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

JP13: D+ CONTROL INPUT, SIDE MARKER

1. Side Marker positive control input
2. D+ negative control input (C036L1A -2)
3. +Key input (C036L1A -13)
4. Side Marker negative control input (C036L1A -11)

JP14: Side Marker left output

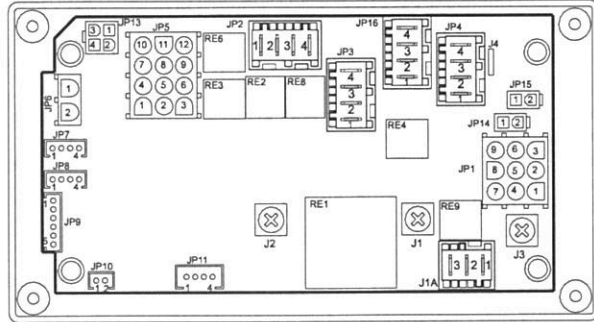
1. Side Marker sx output (+) (F1 5A)
2. NEGATIVE

JP15: Side Marker right output

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

JP16: OPTION FOR SOLAR PANEL (GREEN)

1. Car BATTERY (F2 20A)
2. Leisure BATTERY (F3 15A)
3. Ignition (F7 10A)
4. NEGATIVE

**J1: AUTO BATTERY INPUT**

1. Input + AUTO battery (B1)

J1A: AUTO BATTERY

- 1.2. NEGATIVE
3. +AUTO battery (B1)

J2: SERVICE BATTERY INPUT

1. Input + SERVICE battery (B2)

J3: NEGATIVE

1. NEGATIVE

J4: D+ OUTPUT

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

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 (+) (F4 30A)
2. STEP output (+) (F3 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 ignitin power supply (+) (F7 10A)
4. NEGATIVE

JP5: POWER OUTPUTS

9. Valve output (+) (F7 10A)
- 1,4,5,7,8. AUX output (+) (F9 15A)
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)

JP6: D+ INPUT, POWER MAIN ON

1. D+ input from alternator
2. POWER MAIN ON input from battery charger

JP8: RECYCLE TANKS (R1)

1. NEGATIVE
2. 1/3 recycle tanks R2
3. 1/3 recycle tanks R2
4. 1/3 recycle tanks R2

JP7: RECYCLE TANKS (R2)

1. NEGATIVE
2. 1/3 recycle tanks R2
3. 1/3 recycle tanks R2
4. 1/3 recycle tanks R2

JP9: TANKS (S1)

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

JP11: CONTROL PANEL

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

JP13: D+ CONTROL INPUT, SIDE MARKER

1. Side Marker positive control input
2. D+ negative control input (C036L1A -2)
3. +Key input (C036L1A -13)
4. Side Marker negative control input (C036L1A -11)

JP14: Side Marker left output

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

JP15: Side Marker right output

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

JP16: OPTION FOR SOLAR PANEL (GREEN)

1. Car BATTERY (F2 20A)
2. Leisure BATTERY (F3 15A)
3. Ignition (F7 10A)
4. NEGATIVE