



TECHNICAL DOCUMENTATION




EURA MOBIL

TERRESTRA - PROFILA - ACTIVA - CONTURA - INTEGRA

SERIE 10

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INDEX

TERRESTRA and PROFILA

MAIN PARTS OF THE ELECTRICAL SYSTEM	5
CONTROL PANEL "PC-100EM"	6
CONTROL PANEL "PC-200T 3t EM"	7
DISTRIBUTION BOX "DS-300EM"	10
SWITCH MODULES	12
COMPONENTS SCHEME "PC-100 EM"	13
COMPONENTS SCHEME "PC-200T 3t EM"	14

ACTIVA, CONTURA und INTEGRA

MAIN PARTS OF THE ELECTRICAL SYSTEM	15
CONTROL PANEL "PC250EM"	16
USER'S SETTINGS	23
MANUFACTURER'S SETTINGS	25
"DS450EM" DISTRIBUTION BOARD	28
BATTERY SEPARATOR BUS-MODULE CONNECTION	31
AMPEREMETER MODULE CONNECTION (80A)	31
SWITCH MODE BATTERY CHARGER "CB 516"	32
SWITCH MODULES	35
COMPONENTS SCHEME "PC-250EM"	36

TECHNICAL DOCUMENTATION

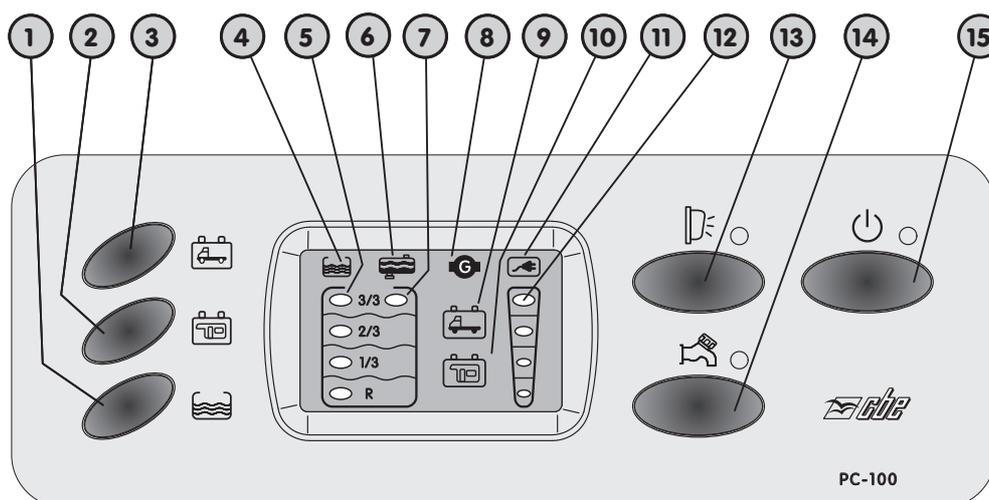
DOCUMENTATION	
Advice and checks	37
Symbol and wire colours	38
WIRING DIAGRAMS	
General wiring diagram "PROFILA"	39
General wiring diagram "TERRESTRA"	40
Wiring diagram "DS-300 EM"	41
General electric diagram Fuse-box / Relay-box "M-Klasse - MT1 710HB"	42
General wiring diagram "ACTIVA, CONTURA and INTEGRA"	43
Wiring diagram "DS-450 EM"	44
Wiring diagram "Step-box"	45
General electric diagram Fuse-box / Relay-box "IN3 I730HB"	46
Wiring harness cab M/L-Klasse	47
Batteries' cables	48
Wiring diagram "DS120-S"	49
Wiring diagram Double switch / Switch	50
Wiring diagram pump heat exchanger - L-Klasse ALDE Heating	51
Wiring diagram "PRS240"	52
Troubleshooting guide for battery separator	53
Troubleshooting guide for electronic water tank probe	54
Pin-out control panels' cables	55

TERRESTRA - PROFILA

MAIN PARTS OF THE ELECTRICAL SYSTEM

- ◆ **CONTROL PANEL**
mains' control, battery test, tank test, (PC-100 and PC-200) - clock function (only for "PC-200).
- ◆ **12V DISTRIBUTION BOX "DS-300EM"**
main relais, battery parallel relais (12V - 70A), fridge relais, pump relais, car battery recharging device, protection fuses.
- ◆ **BATTERY CHARGER**
buffer-system battery charger.
- ◆ **ELECTRONIC TANK PROBE**
it measures the content of the water tanks, visualization in "%". (only for "PC-200")
- ◆ **4-RODS TANKPROBE**
it measures the content of the drink water tank, 4-levels visualization. (only for "PC-100")
- ◆ **TANK PROBE WITH SCREWS "SS/P"**
signalization of full waste water tank. (only for "PC-100")
- ◆ **LEISURE BATTERY "B2"**
it gives power to all the users
- ◆ **CAR BATTERY "B1"**
- ◆ **ENGINE ALTERNATOR**
it recharges in parallel both the car and the leisure battery
- ◆ **230V CUT-OUT BOARD**
it powers and protects all the 230V users
- ◆ **"50A" CAR (B1) AND LEISURE (B2) BATTERY PROTECTION FUSES**

CONTROL PANEL "PC-100EM" - PROFILA



LEGENDA

- 1) Test button to check the drink water tank.
- 2) Test button to check the leisure battery (B2).
- 3) Test button to check the car battery (B1).
- 4) It shows the drink water tank test, the blinking indicates the empty tank alarm.
- 5) Leds to signal the drink water tank levels.
- 6) It shows the waste water tank test, the blinking indicates the full tank alarm.
- 7) Blinking led to signal the full waste water tank; the alarm is indicated also from the blinking of the led ref. 6.
- 8) It shows the car and leisure batteries recharging through engine alternator.
- 9) It shows the car battery (B1) test, the blinking indicates the discharged battery alarm.
- 10) It shows the leisure battery (B2) test, the blinking indicates the discharged battery alarm.
- 11) Led to signal 230V net on
- 12) Led-Voltmeter to check the voltage of the car and leisure batteries
- 13) External light switch; this ext. light switches automatically off when you start up the engine, depends on the main switch.
- 14) Waterpump switch; it controls the pump relais and depends on the main switch
- 15) Mains' general switch, the blinking of the led indicates that the battery is discharged and the next intervention of the minimal voltage control

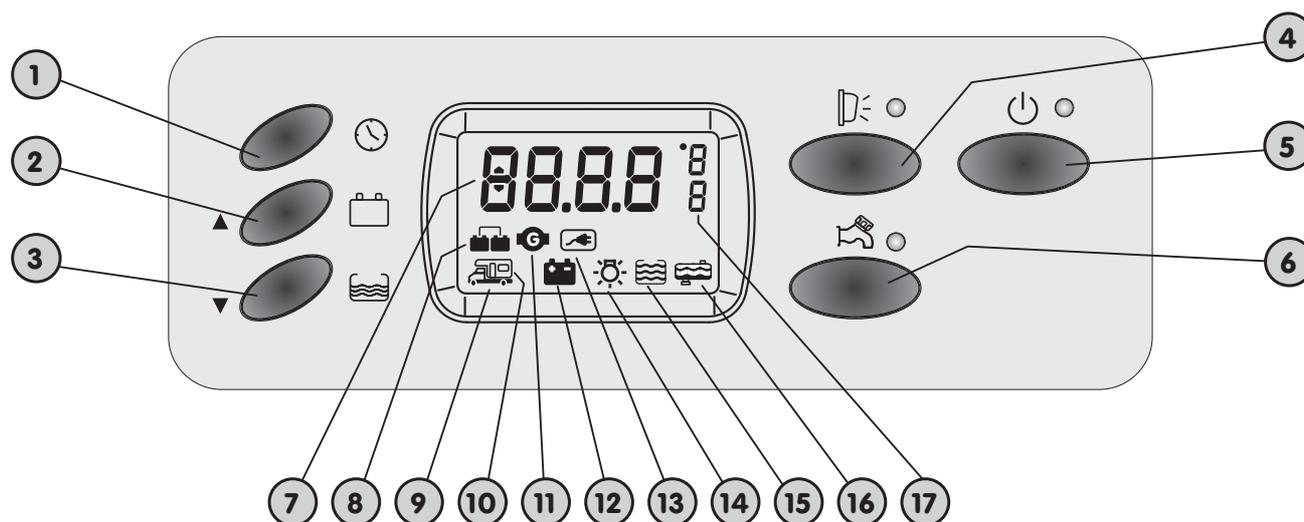
FUNCTIONS

MINIMAL VOLTAGE CONTROL

An electronic device switches all the 12V mains off, when the leisure battery reaches the minimal voltage level of 10V. It is possible to switch on again all the mains for about 1 minute by switching on the main switch.

The fridge, the electrical step and the mains powered directly from B2 are excluded from this device.

CONTROL PANEL "PC-200T 3t EM" - TERRESTRA



LEGENDA

- 1) Test button to set the clock.
- 2) Test button to check the voltage of the car (B1) and leisure (B2) battery and to set the clock.
- 3) Test button to check the level in % of the drink and waste water tank and to set the clock.
- 4) External light switch, it switches automatically off when you start up the engine.
- 5) Main switch (see minimal voltage control).
- 6) Water pump switch.
- 7) Digital displaying of the clock and the required test.
- 8) It shows the starting up of the battery parallel when the engine is started.
- 9) It shows the car (B1) battery test, the blinking means run-down battery alarm.
- 10) It shows the leisure (B2) battery test, the blinking means run-down battery alarm.
- 11) It shows the battery recharging through engine alternator.
- 12) It shows the test or alarm batteries together with the symbols 9 or 10.
- 13) It shows the connection to the 230V net.
- 14) It shows that the minimal voltage device has switched on.
- 15) It shows the drink water tank test, the blinking means empty tank alarm.
- 16) It shows the waste water tank test, the blinking means full tank alarm.
- 17) It shows the unit of measure: U=Volt.

NOTE: The watch is supplied from the leisure battery (B2).
Should B2 be disconnected, the watch is able to keep working, without visualization, for about 2 weeks.

FUNCTIONS

MINIMAL VOLTAGE CONTROL

An electronic device switches all the 12V mains off, when the leisure battery reaches the minimal voltage level of 10V. It is possible to switch on again all the mains for 1 minute by switching off and then on again the main switch.

They are also automatically switched on again when the voltage is > 12V.

The fridge, the electrical step and the mains powered directly from B2 are excluded from this device.

DRINK WATER TANK REFILLING

This function is used during the drink water tank refilling and it shows the level reached by the water.

You switch on this function by visualizing the drink water tank and by keeping pushed the tank switch for more than 3 seconds.

When this function is on, you see getting lightened, in sequence, the horizontal segments of the number ref. 17 and the panel emits sounds in order to warn that the tank is getting filled:

1 short sound at 75%, 2 short sounds at 85% and 1 long sound at 95%.

ELECTRONIC TANKPROBE

The electronic tankprobe mod. "SPE" is a capacitive tankprobe. It is powered with 5V and a back-signal from 0 to 2,5V.

Each 8 seconds the microprocessor gives power to the tankprobe; it is also powered each time you push the tank-test button. This was studied in order to avoid useless consumption.

CLOCK

When the panel is switched on, the time gets displayed; after every test-function the time gets displayed again.

In order to set the clock, keep pushing for 2 secs the test button ref. 1 while the time gets displayed. The hours' digits start blinking and by pushing the test buttons ref. 2 e ref. 3 they can be modified.

By pushing the test button ref. 1 again, it is possible to start setting the minutes' digits.

By pushing the test button ref. 1 for the third time, the clock setting is confirmed

SETUP

To enter the programming menu turn on the control panel with the switch ref. 5 while keeping pushed the buttons ref. 2 and 3.

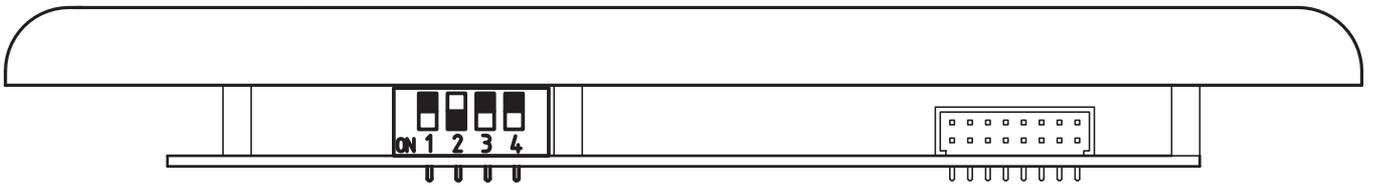
The programming is sequential: to shift to the next parameter push the button ref. 1.

1. Voltmeter B1. With the buttons ref. 2 and 3 it is possible to modify the displayed value in 0.2V steps
2. Voltmeter B2. With the buttons ref. 2 and 3 it is possible to modify the displayed value in 0.1V steps
3. Amperemeter B2 (N.C).
4. Internal temperature (N.C.).
5. External temperature (N.C)

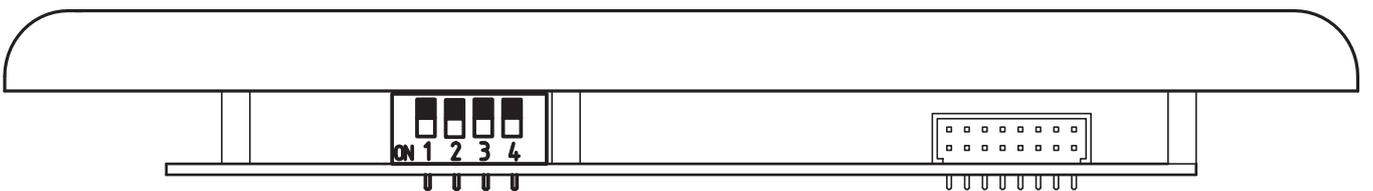
Pushing again the button ref. 1 you exit the programming menu.

TANKS SETTING

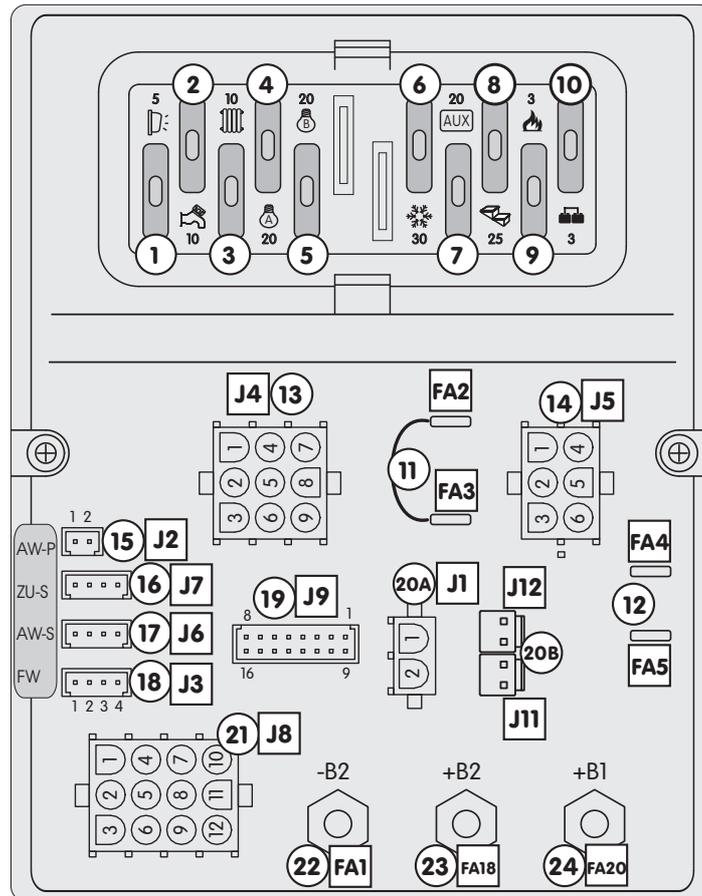
NB: do not modify the dip-switches' position of the picture.



Dip-switches' position here below to active auxiliary tank.



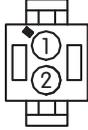
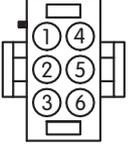
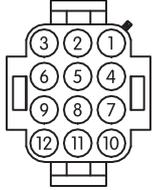
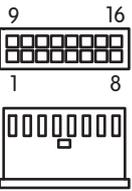
DISTRIBUTION BOX “DS-300EM”



PROTECTION FUSES

- 1) 5A fuse to give power to the awning light, it depends on the main switch and it switches automatically off when the engine is started.
- 2) 10A fuse to give power to the water pump, it depends on the main switch.
- 3) 10A fuse to give power to the heating / boiler, it depends on the main switch.
- 4) 20A fuse to give power to the lights group “A”, it depends on the main switch.
- 5) 20A fuse to give power to the lights group “B”, it depends on the main switch.
- 6) 30A fuse to give power to 12V AES or 3-way function fridge. The 3-way function fridge switches automatically off when the engine is off.
- 7) 20A fuse to give power to the AUX direct exit, it is connected directly to leisure battery (B2).
- 8) 25A fuse to give power to the motorized step, it is connected directly to the leisure battery (B2).
- 9) 3A fuse to give power to spark ignitions (fridge, oven) and gas valve, it is connected directly to the leisure battery (B2).
- 10) 3A fuse for OUT D+ simulated exit protection.
- 11) AES fridge connection; It is a bridge, which excludes the 3 way function fridge and is used to connect the AES fridge directly to the B2.
- 12) Simulated output D+ alternator to control the electrical step, AES refrigerator, electrical draining valve, coming-back of the electrical antenna.

CONNECTIONS

<p>13 WHITE</p> 	<p>MAINS</p> <ol style="list-style-type: none"> + output heating + output water pump + output external light 5-6) + output lights group "A" 7-8-9) + output lights group "B" 	<p>20A WHITE</p> 	<p>SIGNALS (OPTION "A")</p> <ol style="list-style-type: none"> + input signal contact key engine starting. + input signal "S" net coming from the CBE battery charger
<p>14 WHITE</p> 	<p>MAINS</p> <ol style="list-style-type: none"> + output AUX direct B2 2-3) + output "3 way function / AES refrigerator" + output electric step 5-6) + output gas mains' supply (fridge, kitchen, boiler valve) 	<p>20B</p> <p>RED</p>  <p>WHITE</p> 	<p>SEGNALI (OPTION "B")</p> <ol style="list-style-type: none"> N.C. + input signal contact key engine starting. <ol style="list-style-type: none"> + input signal "S" net coming from the CBE battery charger N.C.
<p>15 BLACK</p> 	<p>WASTE WATER TANK (AW-P)</p> <p>To connect to the waste water tank probe with screws. (Only for PROFILA)</p>	<p>21 WHITE</p> 	<p>MASSE</p> <p>To connect to the mains' masses.</p>
<p>16 BLACK</p> 	<p>AUXILIARY TANK (ZU-S)</p> <p>To connect to the auxiliary water electronic tank probe. (Only for TERRESTRA)</p> <ol style="list-style-type: none"> Masse - 2)Signal 3)+5V - 4)Not connected 	<p>22</p> <p>-B2</p> 	<p>MASSE</p> <p>To connect to the negative pole of the services battery or to the chassis of the vehicle.</p>
<p>17 BLACK</p> 	<p>WASTE WATER TANK (AW-S)</p> <p>To connect to the waste water electronic tank probe. (Only for TERRESTRA)</p> <ol style="list-style-type: none"> Masse - 2)Signal 3)+5V - 4)Not connected 	<p>23</p> <p>+B2</p> 	<p>SERVICES BATTERY</p> <p>To connect to the positive pole of the services battery.</p>
<p>18 BLACK</p> 	<p>DRINK WATER TANK (FW)</p> <p>To connect to the drink water tank probe.</p> <p>PROFILA - 1)Masse - 2) 1/3 Level 3) 2/3 Level - 4) 3/3 Level</p> <p>TERRESTRA - 1)Masse - 2)Signal 3)+5V - 4)n.c.</p>	<p>24</p> <p>+B1</p> 	<p>CAR BATTERY</p> <p>To connect to the positive pole of the car battery.</p>
<p>19 BLACK</p> <p>VISTO DA "A"</p>  <p>↑ A</p>	<p>CONTROL PANEL</p> <p>To connect to the 16 poles connector of the control panel.</p>		

FUNCTIONS

CAR BATTERY (B1) RECHARGING

When the battery charger is charging, an electronic device allows a recharging (max 2A) of the car battery (B1), the system gives priority to the leisure battery (B2).

LEISURE BATTERY (B2) RECHARGING

a) by alternator: through the separating relays, when the engine is started. The engine ignition controls electronically a small relays which controls the other relays: parallel, fridge, external light, etc...

b) by 230V net: buffer system through battery charger (see "battery charger").

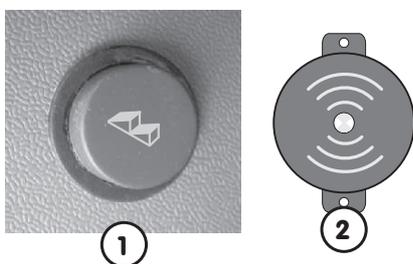
c) by solar panel: through solar regulator.

ELECTRONIC BATTERY SEPARATOR

An electronic device, which is controlled by the engine ignition, switches on the battery parallel when the alternator voltage is over 13.3V and switches it off when the engine starting key is off or the voltage is under 12V.

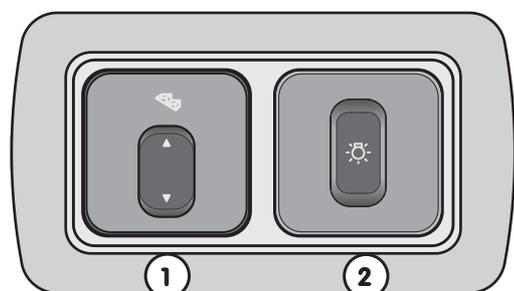
This device controls also the external light's relays, which works only when the engine is off.

SWITCH MODULES (TERRESTRA only)



STEP-RETRACT BUTTON

- 1) Button placed on the dashboard to the step retraction.
- 2) When motor gets turned on and the step is out, the buzzer gets on.

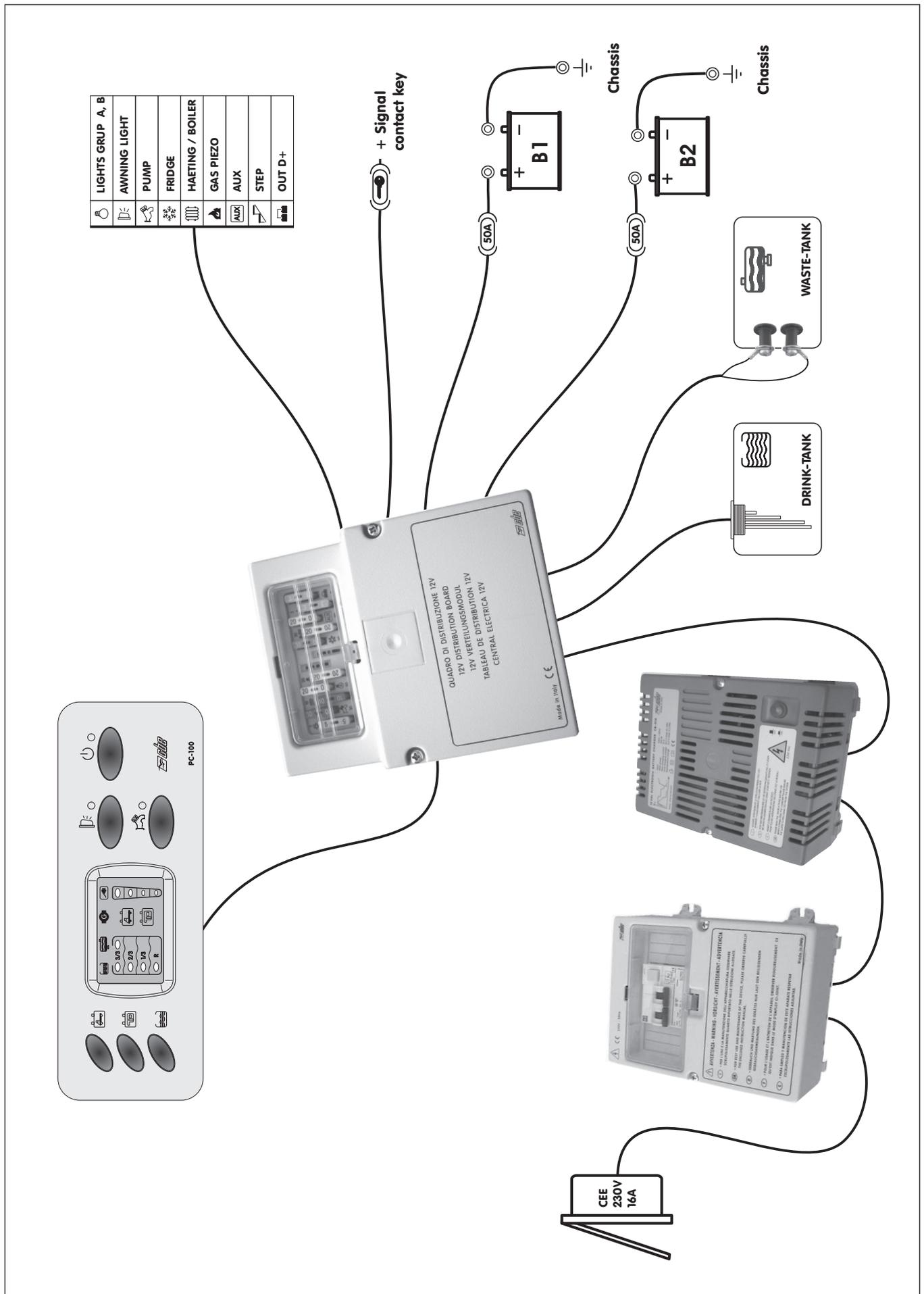


STEP AND LIGHT SWITCHES (SPORT only)

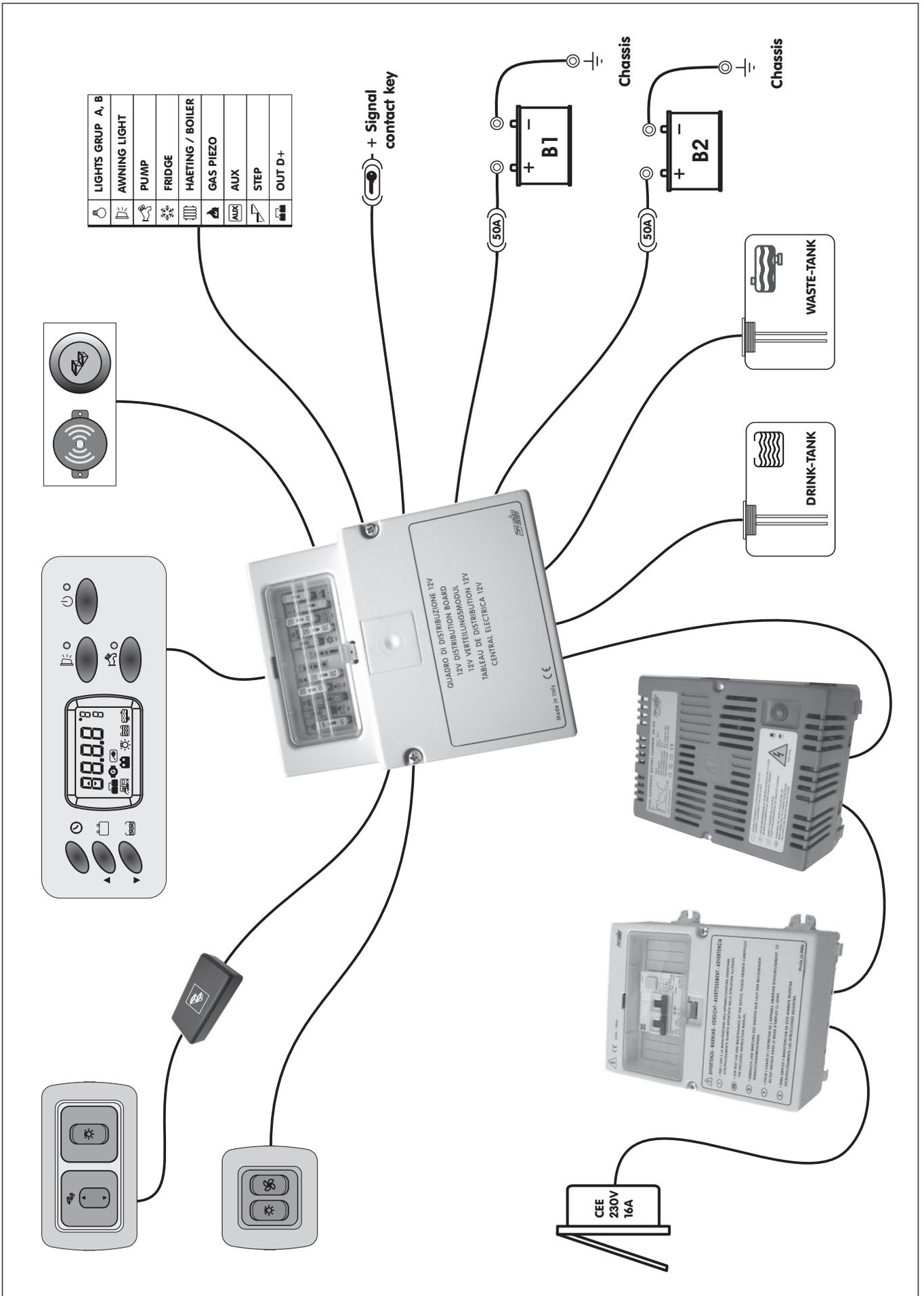
- 1) Step switch.
- 2) Light-switch.
- 3) Step relay-box.



COMPONENTS SCHEME "PC-100EM" - PROFILA



COMPONENTS SCHEME "PC200T 3t EM" - TERRESTRA

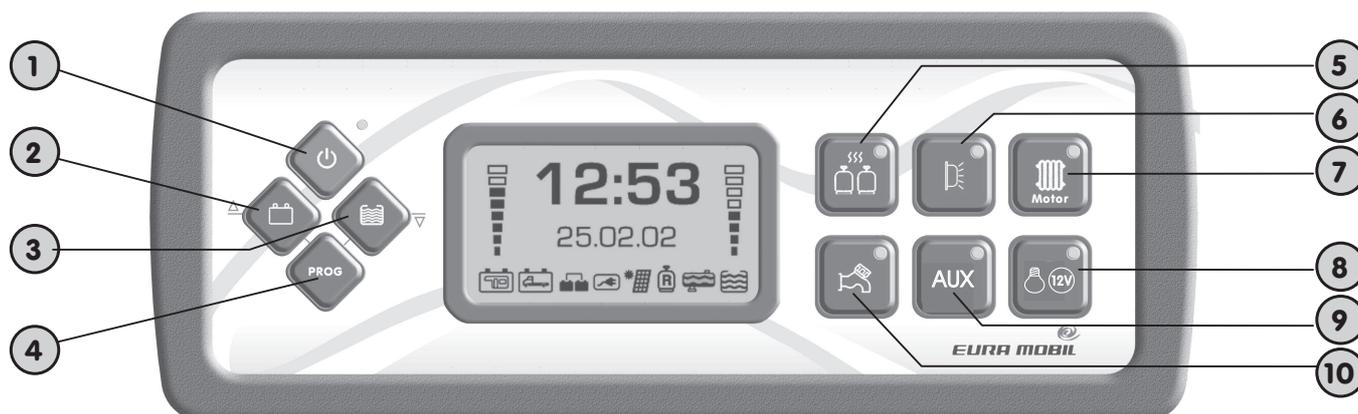


ACTIVA - CONTURA - INTEGRA

MAIN PARTS OF THE ELECTRICAL SYSTEM

- ◆ **CONTROL PANEL - “PC-250EM”**
mains’ control, battery test, tank test, temperature test and clock function.
- ◆ **12V DISTRIBUTION BOX “DS-450EM”**
main relays, battery parallel relays (12V - 70A), fridge relays, pump relays, car battery recharging device, protection fuses and broken fuses’ signalation’s leds.
- ◆ **BUS-SEPARATOR**
battery paralleling relay (12V - 70A) and car battery recharging device.
- ◆ **“80A” AMPEREMETER**
- ◆ **BATTERY CHARGER**
buffer-system battery charger.
- ◆ **ELECTRONIC TANK PROBE**
it measures the content of the water tanks, visualization in “%”.
- ◆ **LEISURE BATTERY “B2”**
it gives power to all the users
- ◆ **CAR BATTERY “B1”**
- ◆ **ENGINE ALTERNATOR**
it recharges in parallel both the car and the leisure battery
- ◆ **230V CUT-OUT BOARD**
it powers and protects all the 230V users
- ◆ **“50A” CAR (B1) AND LEISURE (B2) BATTERY PROTECTION FUSES**

CONTROL PANEL “PC-250EM”



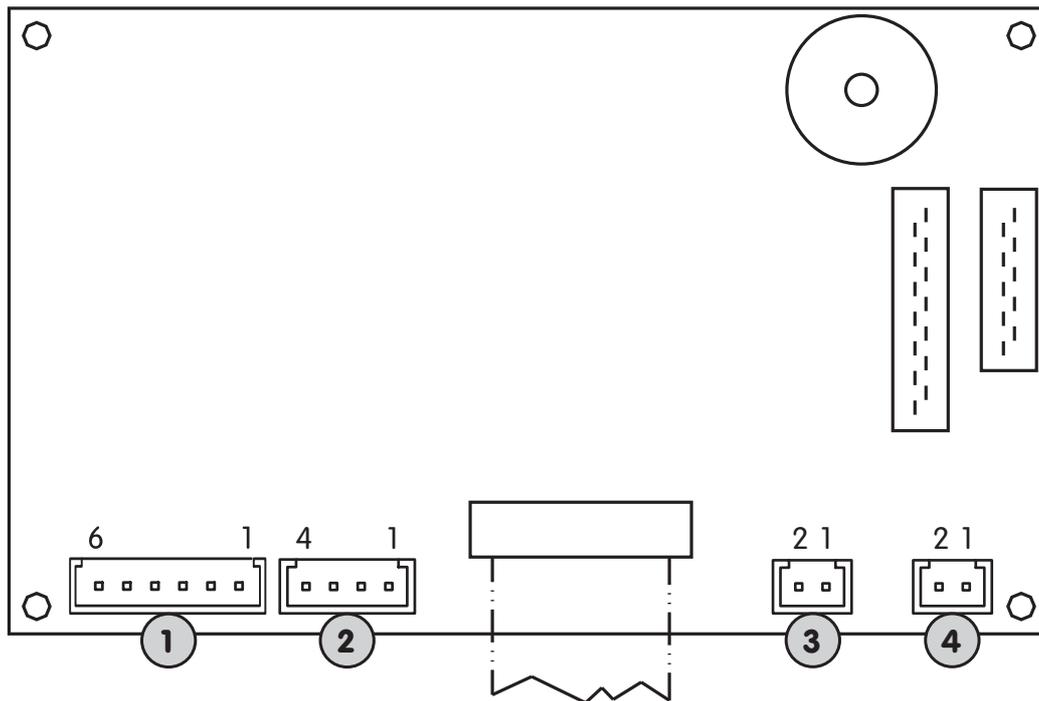
CAPTIONS

- 1) Test button to check both internal and external temperature and to set the clock.
- 2) Test button to check the voltage of the leisure battery (B2) and car battery (B1), to check charge and discharge currents of leisure battery and to set the clock.
- 3) Test button to check the level in % of the drink and waste water tank and to set the clock.
- 4) Duomatic anti-ice resistance switch.
- 5) Main switch (see minimum voltage control).
- 6) Water pump switch.
- 7) Lights main switch.
- 8) Digital display of the clock and of the required test
- 9) It shows the starting up of the battery parallel when the engine is started.
- 10) It shows the car (B1) battery test, the blinking means run-down battery alarm.
- 11) It shows the leisure (B2) battery test, the blinking means run-down battery alarm.
- 12) It shows the batteries recharging through engine alternator.
- 13) It shows the test or alarm of batteries together with the symbols 10 or 11.
- 14) It shows the connection to the 230V net.
- 15) It shows that the minimal voltage device has switched on.
- 16) It shows the drink water tank test, the blinking means empty tank alarm.
- 17) It shows the waste water tank test, the blinking means full waste water tank alarm.
- 18) It shows the gas reserve (Duomatic).
- 19) It shows the unit of measure: U=Volt, A=Ampere, °C and temperature reference I=internal temperature, E=external temperature.

NOTE: - During a test function (batteries ref. 2 and tanks ref.3) it is possible to maintain the visualisation for one minute by pressing the “PROG” button (ref.4)
 - To cancel an alarm signalling, press one of the buttons ref. 2 or 3.

NOTE: - The watch is supplied from the leisure battery (B2).
 Should B2 be disconnected, the watch is able to keep working, without visualization, for about 2 weeks.

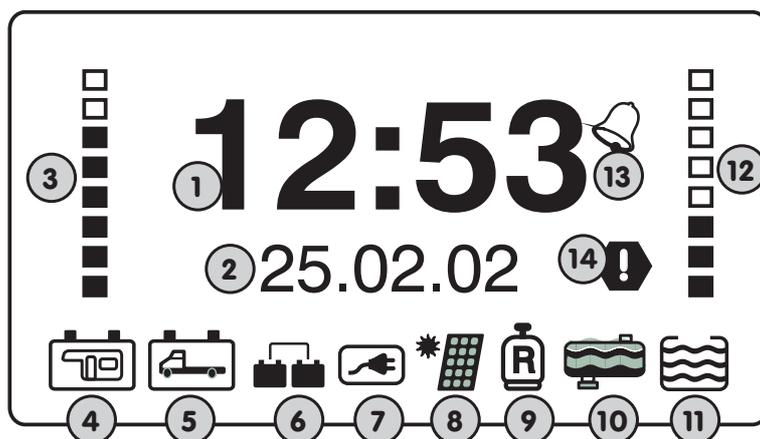
"PC-250EM" CONTROL PANEL CONNECTIONS



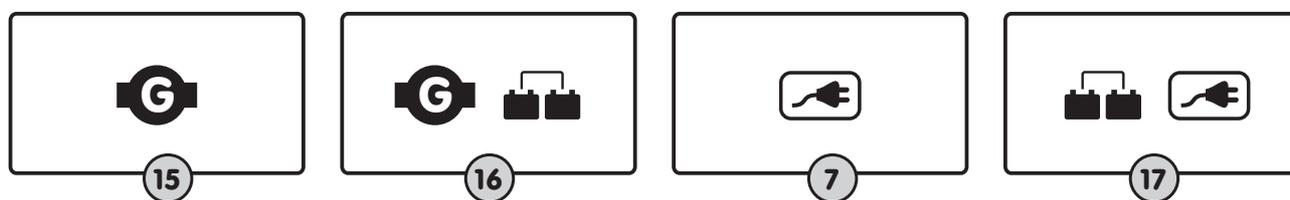
1	BLACK	"DS-450EM" DISTRIBUTION BOX
		To be connected to the 6 pole connector (ref.26) of the distribution box "DS-450EM".
2	BLACK	BUS CONNECTION
		To be connect to the bus modules.
3	BLACK	NOT CONNECTED
		
4	BLACK	NOT CONNECTED
		

“PC-250EM” CONTROL PANEL VISUALIZATIONS

MAIN VISUALIZATION



AUTOMATIC VISUALIZATIONS (main switch is off)



- 1) Clock digital display.
- 2) Date digital display.
- 3) “B2” leisure battery status display.
- 4) It shows the leisure battery (B2) test, the blinking indicates the discharged battery alarm
- 5) It shows the car battery (B1) test, the blinking indicates the discharged battery alarm.
- 6) It displays the batteries’ paralleling when engine is on or with car battery recharging unit.
- 7) It displays that the 230V net is connected.
- 8) It displays the recharging through solar panel (possible with a CBE solar regulator only).
- 9) It displays that the main gas bottle is empty.
- 10) It shows the waste and auxiliary (optional) water tank test, the blinking indicates the full tank alarm.
- 11) It shows the drink and auxiliary (optional) water tank test, the blinking indicates the empty tank alarm.
- 12) Drink water tank status display.
- 13) It displays that alarm clock is activated.
- 14) The blinking indicates a system anomaly.
Disconnect and reconnect the negative end of the B2 leisure battery; if the problem is not solved contact the local representative.
- 15) It displays that the vehicle key is in the ignition position
- 16) It shows the connection of the batteries in parallel (see “LEISURE BATTERY RECHARGE (B2)”).
- 17) It shows the recharge of the car battery “B1” (see “CAR BATTERY RECHARGE (B1)”).

FUNCTIONS

START ALARM

Alarm signals acoustically and visually with the message "230V CONNECTED!" and then blinking of symbols ref. 6 and 7.

Alarm is activated also with panel off when, while connected with the 230V net, start key is operated.

EXTERNAL STEP ALARM (with ignition on)

Alarm occurs also when panel is off if external step is out and motor is turn on.

Alarm is shown acoustically and visually with the message "STEP OUT".

CAR BATTERY ALARM (B1)

When car battery voltage is lower than 12V, the "MOTOR B. DISCHARGE" alarm is activated automatically and symbols ref. 5 start blinking.

CAR BATTERY RECHARGE (B1)

With battery charger or solar panel: an electronic device controlled by the microprocessor allows the recharge (max 2A) of car battery (B1) only if the voltage of leisure battery is bigger than 13.6V. If the voltage of leisure battery is lower than 12.6V, the electronic device is automatically deactivated.

Priority is given to leisure battery (B2) charge.

Function is displayed by the symbol ref. 6 on control panel.

With solar panel the device is operated only when control panel is on, when 230V net is connected the device is automatically operated.

LEISURE BATTERY ALARM (B2)

When leisure battery voltage is lower than 11.5V, "LEISURE B. RESERVE" is automatically activated together with symbols ref. 4 blinking.

When leisure battery voltage is lower than 10.5V, "LEIS. B. DISCHARGE" alarm is activated.

LEISURE BATTERY RECHARGE (B2)

a) through engine alternator: through separative relays when engine is on. The ignition electronically controls the relays: parallel, fridge, awning light, etc.

b) trough 230V net: pad system through battery charger.

c) trough solar panel: through solar charge regulator.

MINIMUM VOLTAGE CONTROL (BATTERY PROTECTION)

The electronic battery protection device cuts off the 12V users when leisure battery reaches 10V and disables: pump, lights, awning light, RH exit and stove.

The alarm is signalled visually with the message "BATTERY SAVER".

It is possible to reactivate all users for one minute by pressing the on/off button (ref. 1 on control panel) or separately by pressing the related control button.

The control panel automatically turns off with a voltage lower than 9.5V.

Users are automatically reactivated when voltage is bigger than 13.5V.

This device doesn't control the functions: fridge, step and the auxiliary exit AUX.

FUNCTIONS

TANKS

- a) Drink water tank with electronic probe: levels are displayed numerically in % and graphically with represented tank filling and graphically with represented tank filling.
- b) Waste water tank with electronic probe: levels are displayed numerically in % and graphically with represented tank filling and graphical with represented tank filling.
- c) Auxiliary (optional) water tank with electronic probe: levels are displayed numerically in % and graphically with represented tank filling and graphical with represented tank filling.

DRINK WATER TANK REFILLING

This function is used during the drink water refilling and shows the water level during refilling. To activate this function activate the tanks button ref.03 and press the "PROG" button ref.4 for more than 2 seconds, until the "water refilling" screen is displayed.

The control panel beeps in order to warn that tank is getting filled: one short beep at 75-80%, two short beep at 85-90% and a long beep at 95-100%.

To exit this function press buttons ref. 2 and 3.

DRINK WATER TANK ALARM

Alarm turns on when drink water level is lower than 10% of the tank capacity and automatically turns on when level exceeds 20%.

Alarm is shown acoustically (when engine is off) and visually with the symbol ref. 11 and the message "DRINK RESERVE".

WASTE WATER TANK ALARM

Alarm turns on when waste water level exceeds 90% of total capacity and turns off automatically when level is lower than 80%.

Alarm is shown acoustically (when engine is off) and visually with the symbol ref. 10 and the message "WASTE FULL".

AUXILIARY DRINK WATER TANK ALARM

Alarm turns on when auxiliary drink water level is lower than 10% of the tank capacity and automatically turns on when level exceeds 20%.

Alarm is shown acoustically (when engine is off) and visually with the symbol ref. 11 and the message "AUX TANK RESERVE".

AUXILIARY WASTE WATER TANK ALARM

Alarm turns on when auxiliary waste water level exceeds 90% of total capacity and turns off automatically when level is lower than 80%.

Alarm is shown acoustically (when engine is off) and visually with the symbol ref. 10 and the message "AUX TANK FULL".

GAS RESERVE ALARM

Alarm is activated when main gas bottle is empty.

Alarm is visually signalled with the message "GAS BOTTLE RESERVE" and with the blinking of symbol ref. 9.

FUNCTIONS

AMPEREMETER

External amperometer module.

- It measures the current of the leisure battery.
- Measure range is -80A÷ +80A, the precision is 0,1A.
- The measure happens through the differences among the charging and discharging currents; with "+" symbol indicates the recharging current; with the "-" symbol indicates a discharging current.

In order to measure the charging current of a single source (battery charger, alternator, solar Panel), turn off every other source and the users.

In order to measure the consumption of a single user, switch off every charge source and any Other user.

NB: - Before calibration turn off all users and sources.

- Visualized value include the consumption of the electronic system.

ELECTRONIC BATTERY SEPARATOR

An electronic device controlled by the ignition switches on the batteries parallel when the car battery voltage is over 13,5V and switches off when engine is off or voltage is lower than 12,2V.

This device operates only if the B2 leisure battery is connected.

This device controls the relays of the users depending from exit simulating +OUT D+ (3 way function fridge, awning light, antenna motion, etc.).

AWNING LIGHT AUTOMATIC TURN OFF

An electronic device switches off the awning light when engine is turned on.

DIGITAL CLOCK AND DATE

To set clock and date see "SETTING".

ALARM CLOCK

To set and activate/deactivate the alarm clock see "SETTING".

To reset alarm press any test button; there is no delayed alarm!

PUMP LOCK

An electronic device automatically locks the water pump after a predefined continuous service time (set by manufacturer). Alarm is visual only, with the message "PUMP BLOCK" and with the pump button led ref. 10 blinking on the control board.

BROKEN FUSE ALARM

Under each fuse is positioned a red LED.

The lighting of the LED signals that the fuse is broken and it is necessary to replace it with another fuse with the same value. The alarm is activated only when the control panel is on and the user related to the fuse is switched on.

NOTE: before repalcing the fuse find the problem that determined the intervention of the protection and fix it, eventually with the help of specialized technicians.

ALARM MESSAGES, TESTS AND CONFIRMATIONS

EIS-EX ON	It confirms the switching on of eis-ex.
EIS-EX OFF	It confirms the switching off of eis-ex.
ENGINE HEATING ON	It confirms that engine heating is switched on
ENGINE HEATING OFF	It confirms that engine heating is switched off
AWNING LIGHT ON	It confirms that awning light is switched on
AWNING LIGHT OFF	It confirms that awning light is switched off
LIGHTS ON	It confirms that lights are switched on.
LIGHTS OFF	It confirms that lights are switched on.
AUX ON	It confirms that AUX is switched on.
AUX OFF	It confirms that AUX is switched off.
PUMP ON	It confirms that pump is switched on
PUMP OFF	It confirms that pump is switched off
GAS BOTTLES RESERVE	Main gas bottles reserve alarm
PUMP BLOCK	It displays the intervention of pump lock
STEP OUT	It displays that step is down when engine is on
LEISURE B. RESERVE	It displays that leisure battery is in reserve
LEIS. B. DISCHARGE	It displays that leisure battery is discharged
MOTOR B. DISCHARGE	It displays that car battery is discharged
DRINK RESERVE	It displays that drink water tank is in reserve
AUX TANK RESERVE	It displays that auxiliary water tank is in reserve
AUX TANK FULL	It displays that auxiliary water tank is full
WASTE FULL	It displays that waste water tank is full
230V CONNECTED!	It displays that the 230V net is connected when engine is on
OPTIONAL	It displays that this function has not been set
BATTERY SAVER	It displays the intervention of minimum voltage device.
ERROR COM	It indicates a communication error

USER'S SETTINGS

- ◆ Disconnect 230V external power supply.
- ◆ To enter the set mode, press the "PROG" button (ref. 4) for more than 2 seconds from the main clock screen.
- ◆ To run through the menu press arrow keys (ref. 2 and 3).
- ◆ To select a function press the "PROG" button (ref. 4).
- ◆ To go back to previous menu select "↑MENU↑".
- ◆ To exit the set mode and save the settings, select "EXIT" in main menu (exit is confirmed by the message "PROG. OK !").
- ◆ To exit without saving wait 30 seconds for automatic exit without pressing any key.

ALARM CLOCK

MENU → ALARM CLOCK
→ Select the function

- ALARM CLOCK REG.
Set alarm clock time (HOURS / MINUTES).
- ALARM
Activation/deactivation of alarm clock (ON / OFF).

CLOCK

MENU → CLOCK
→ Select the function

- CLOCK SETTING
Set clock time (HOURS / MINUTES).
- DATE SETTING
Date set (DAY / MONTH / YEAR).

LANGUAGE

MENU → LANGUAGE
→ Select the function

- ITALIANO
- DEUTSCH
- FRANCAIS
- ENGLISH

DISPLAY

MENU → DISPLAY

→ Select the function

-CONTRAST

Display contrast setting (0÷100 %).

-BACKLIGHT

Display back light can be:

-ON (always on)

-OFF (always off)

-AUTO (light switches off if no button is pressed for 10 seconds).

TONES

MENU → TONES

→ Select the function

-ALL

Acoustic alarms and button tones are connected.

-ONLY ALARM

Acoustic alarms are connected, button tones are disconnected.

-NONE

No acoustic alarm, no button tones.

MANUFACTURER'S SETTINGS

- ♦ To access the programming mode, turn the control panel on by keeping the «PROG » ref.4 button pushed.
- ♦ To run through the menu press arrow keys (ref. 2 and 3).
- ♦ To select a function press the «PROG» button (ref. 4).
- ♦ To go back to previous menu select « ↑MENU↑ ».
- ♦ To exit the set mode and save the settings, select “EXIT” in main menu (exit is confirmed by the message “PROG. OK !”).
- ♦ To exit without saving wait 30 seconds for automatic exit without pressing any key.
- ♦ To exit the manufacturer programming turn the control panel off.

DRINK WATER TANK

MENU → DRINK

→ Select the function

-STATUS

Activation / deactivation of tank control (ON / OFF).

-VISUALIZATION

Select measure unit (LITERS / PERCENTAGE / 3 LEVELS / SCREWS).

-CAPACITY

Maximum capacity set (45÷500L / NO LINEAR).

WASTE WATER TANK

MENU → WASTE

→ Select the function

-STATUS

Activation / deactivation of tank control (ON / OFF).

-VISUALIZATION

Measure unit set (LITERS / PERCENTAGE / 3 LEVELS / SCREWS).

-CAPACITY

Maximum capacity set (45÷500L / NO LINEAR).

AUX WATER TANK

MENU → AUX TANK

→ Select the function

-STATUS

Activation / deactivation of tank control (DRINK / WASTE / OFF).

-VISUALIZATION

Select measure unit (LITERS / PERCENTAGE / 3 LEVELS/ SCREWS).

-CAPACITY

Maximum capacity set (45÷500L / NO LINEAR).

GAS (optional)

MENU → GAS

→ Select the function

-GAS BOTTLES

Gas bottles control device activation/deactivation (ON / OFF).

-GAS BOTTLE VALVE

Gas bottles valve control device activation/deactivation (ON / OFF).

-TANK

Tank control device activation/deactivation (ON / OFF).

-TANK'S VALVE

Tank gas valve control device activation/deactivation (ON / OFF).

-EIS-EX

"Eis-ex" control device activation/deactivation (ON / OFF).

CAR BATTERY

MENU → CAR BATTERY

→ Select the function

-VOLTAGE

Car battery voltage set (12V / 24V).

-SETTING

Engine battery voltage setting (max ± 1V).

LEISURE BATTERY

MENU → LEISURE BATTERY

-SETTING

Leisure battery voltage setting (max ± 1V).

PUMP BLOCK

MENU → PUMP BLOCK.

Activation / deactivation and set of intervention time of pump lock device
(2÷60 min. / OFF).

«0» AMPMETER

MENU → 0 AMPMETER

Calibration of « 0 » in amperemeter (A).

ENGINE HEATING

MENU → ENGINE HEATING

Activation / deactivation of engine heating device (ON / OFF).

DIAGNOSIS

MENU → DIAGNOSIS

→ Select the function

-ANOMALY

It indicates all possible communication errors of each activated bus module (n°ERR).

-SOFTWARE VERSION

It indicates the software version of each bus module.

-SONDE ON

It activates the power supply to all system probes for maintenance or troubleshooting procedures (ON/OFF).

DEVICES

MENU → DEVICES

→ Select the function

-BUS SEPARATOR. (**option**)

Separator device activation/deactivation (ON / OFF).

-GAS BUS-MODULE (**option**)

Gas bus module device activation/deactivation (ON / OFF).

-STEP BUS-MODULE (**option**)

Step bus module control device activation/deactivation (ON / OFF).

-AMPMETER

Ampmeter type setting activation/deactivation (OFF / ANALOG / BUS).

-INVERTER (**not applicable to this version**)

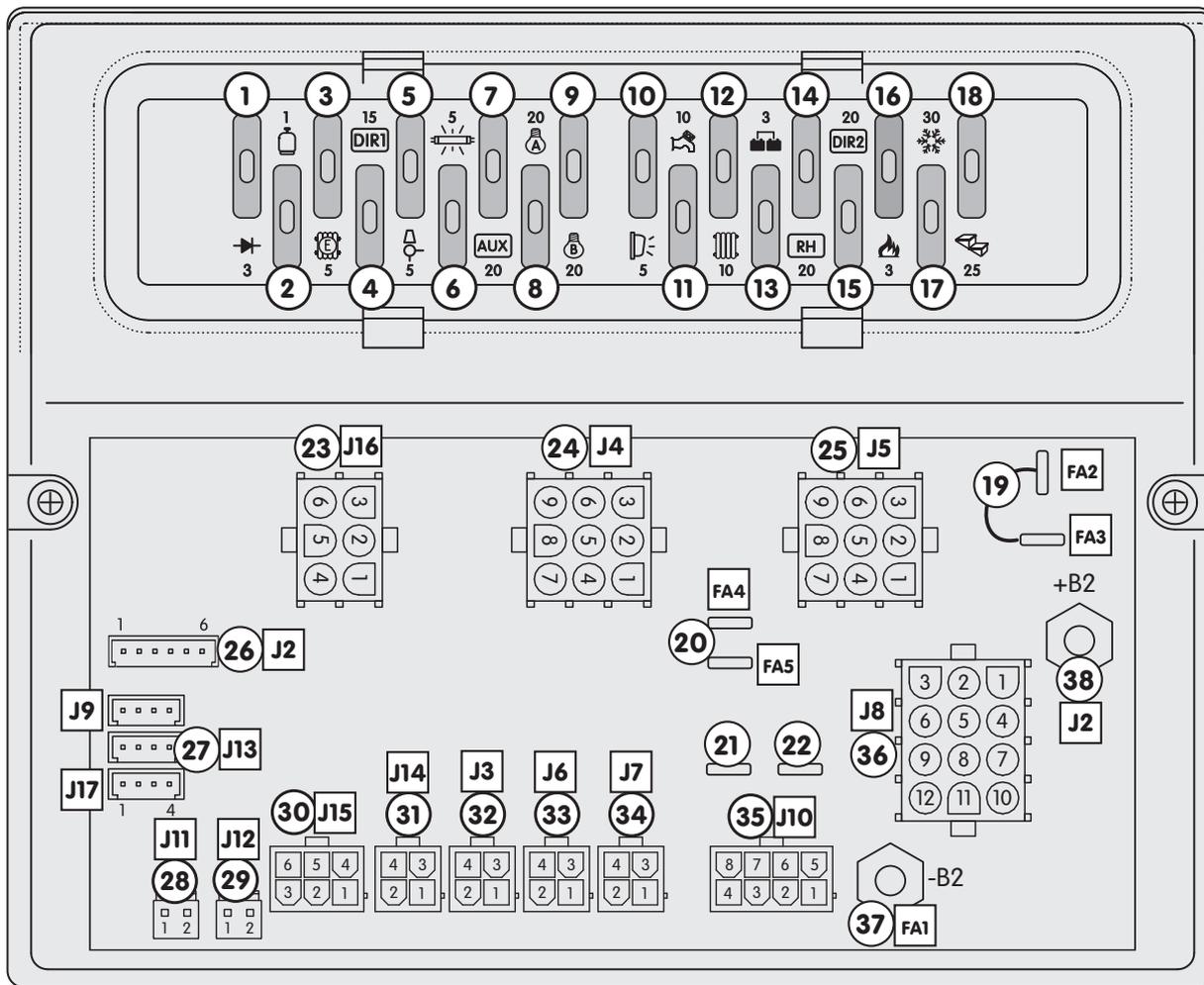
-BURGLAR (**not applicable to this version**)

- THERMOSTAT (**not applicable to this version**)

- DISTRIB. BOX

Distribution box type setting activation/deactivation (DS350-450 / DS560) (**for this version, "DS350-450" is always applicable**)

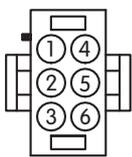
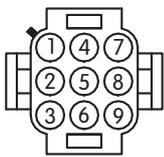
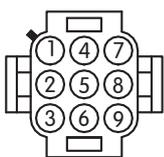
“DS-450EM” DISTRIBUTION BOARD

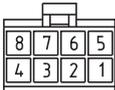
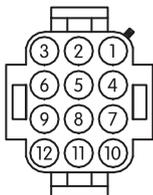


- 1) 3A fuse for control panel power supply.
- 2) 1A fuse to give power to the “EIS-EX” exit, it depends on the “EIS-EX” button.
- 3) 5A fuse for engine’s heating power supply, it depends on the engine’s heating button.
- 4) 15A fuse for “DIR1” auxiliary exit power supply, which is directly connected to leisure battery (B2).
- 5) 5A fuse for power supply of gas valve, directly connected to the leisure battery (B2).
- 6) 5A fuse for power supply of lights through pushbutton, it depends on the main button.
- 7) 20A fuse for “AUX” auxiliary exit power supply, it depends on the AUX button.
- 8) 20A fuse for power supply of light group “A”, it depends on the lights button.
- 9) 20A fuse for power supply of light group “B”, it depends on the lights button.
- 10) 5A fuse for awning light power supply, which depends on the awning button and automatically switches off when engine is on.
- 11) 10A fuse for water pump power supply, it depends on the pump button.
- 12) 10A fuse to give power to heating, it depends on main button.
- 13) 3A fuse for OUT D+ simulated exit protection.
- 14) 20A fuse to give power to the "RH" auxiliary exit, it depends on the main button.
- 15) 20A fuse for “DIR2” auxiliary exit power supply, which is directly connected to leisure battery (B2).

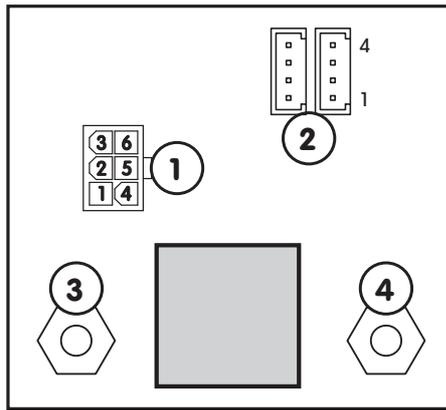
- 16) 3A fuse for power supply of gas piezoelectric firing device (fridge, kitchen, etc.) and boiler's anti-ice gas valve, which is directly connected to the leisure battery (B2).
- 17) 30A fuse for 12V AES and 3 way function fridge power supply. The 3 way function fridge automatically switches off when engine is off.
- 18) 25A fuse for electric step power supply, which is connected directly to leisure battery (B2).
- 19) AES fridge connection; It is a bridge, which excludes the 3 way function fridge and is used to connect the AES fridge directly to the B2.
- 20) 3A fuse to protect the OUT D+ simulated exit.
- 21) N.C.
- 22) N.C.

CONNECTIONS

23 WHITE	 <p>USERS</p> <ul style="list-style-type: none"> 1) + exit "AUX", it depends on the main button 2) + exit lights through pushbutton. 3) + exit gas valve (direct B2) 4) + exit anti-ice resistor "Eis-ex", it depends on the "EIS-EX" button 5) + exit engine heating, it depends on the engine's heating button 6) + exit "DIR1" (direct B2) 	FUSE (rif.)
24 WHITE	 <p>USERS</p> <ul style="list-style-type: none"> 1) + exit oven / boiler, it depends on the main button. 2) + exit water pump, it depends on the pump button. 3) + exit awning light, it depends on the awning button 4-5-6) + exit lights group "B", it depends on the lights button. 7-8-9) + exit lights group "A", it depends on the lights button. 	FUSE (rif.)
25 RED	 <p>USERS</p> <ul style="list-style-type: none"> 1) + exit step (direct B2) 2-3) + exit fridge 4+7) + exit "RH1", it depends on the main button. 5-6) + exit gas users (fridge, oven, boiler valve, etc.) (direct B2) 8-9) + exit "DIR2" (direct B2) 	FUSE (rif.)
26 BLACK	 <p>CONTROL PANEL</p> <p>To connect to the 6 poles connector of the control panel (rif. 01).</p>	28 WHITE
27 BLACK	 <p>BUS CONNECTION</p> <p>Bus modules connection.</p>	29 RED
		 <p>SIGNALS</p> <ul style="list-style-type: none"> 1) + input signal "S" net coming from the CBE battery charger 2) free
		 <p>SIGNALS</p> <ul style="list-style-type: none"> 1-2) + input signal ignition.

30 WHITE 	SIGNALS 1) input step contact signal (-) 2) input RUN pump signal (+) 3) input button switched light (-) 4) input solar signal (only possible with CBE solar regulator). 5) input gas bottle signal (-) 6) N.C.
31 BLEU 	AMPMETER To connect to the 4 poles connector of the ammeter (rif. 03). 1) Masse - 2)Signal 3)+5V - 4)+12V
32 RED 	AUX TANK To connect to the auxiliary tank electronic probe. 1) Masse - 2)Signal 3)+5V - 4)Free
33 BLACK 	WASTE WATER TANK To connect to the waste water electronic probe. 1) Masse - 2)Signal 3)+5V - 4)Free
34 WHITE 	DRINK WATER TANK To connect to the drink water electronic probe. 1) Masse - 2)Signal 3)+5V - 4)Free
35 WHITE 	N.C.
36 WHITE 	MASSE Masses to be connected to the user's negative pole.
37 -B2 	MASSE To be connected to the minus pole of leisure battery (B2) or to car chassis.
38 +B2 	SEPARATOR'S CONNECTION To connect to the bolt "+B2" (rif.3) of the separator.

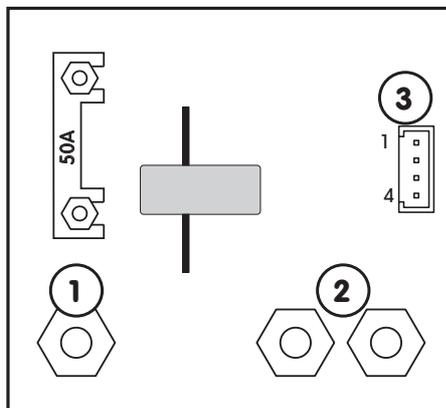
BATTERY SEPARATOR BUS-MODULE CONNECTION



1	WHITE	SIGNAL
		1) N.C. 2) N.C. 3) Masse 4) + input signal ignition 5) N.C. 6) N.C.
2	BLACK	BUS CONNECTION
		Bus modules connection

3	+B2	AMPEREMETER / DS-450EM
		To be connected to the bolt "+12V" rif.2 of the amperemeter and to the bolt "+B2" rif.38 of the distribution box "DS-450EM"
4	+B1	CAR BATTERY "B1"
		To be connected to the plus pole of the car battery.

AMPEREMETER MODULE CONNECTION (80A)



1	+B2	LEISURE BATTERY "B2"
		To be connected to the plus pole of the leisure battery.
2	+12V	SEPARATOR
		To connect to the bolt "+B2" (rif.03) of the separator.

3	BLACK	SIGNAL
		Requires connection to connector marked with ref. n. 31 on distribution box "DS-450EM".

SWITCH MODE BATTERY CHARGER “CB516”

The CB 510/516 switch-mode battery charger has been expressly designed for the caravanning and boating sector and can automatically charge 12V --- lead batteries.

The battery charger is protected against overtemperature and the 12V --- outputs are protected against short circuit and polarity inversion.

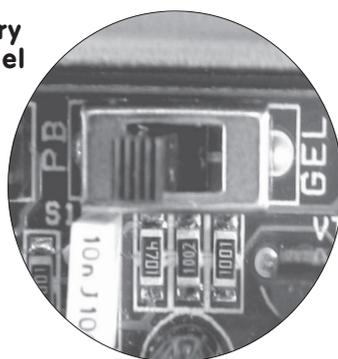
The charging system is carried out in 4 stages:

- 1) **battery charging** with maximum current until the end-charge voltage is reached:
Note: the end-charge voltage is reached only if the battery is efficient.
- 2) when the **end-charge** threshold is reached the charger continues to operate for 90 minutes (lead batteries) or 8 hours (gel batteries) with constant voltage.
- 3) **Constant** voltage holding 13.8V --- (gel batteries) or 13.5V --- (lead batteries)
- 4) After 10 hours, the battery charger reaches the **stand-by** mode and begins to operate again only when the battery voltage is lower than 13V --- .

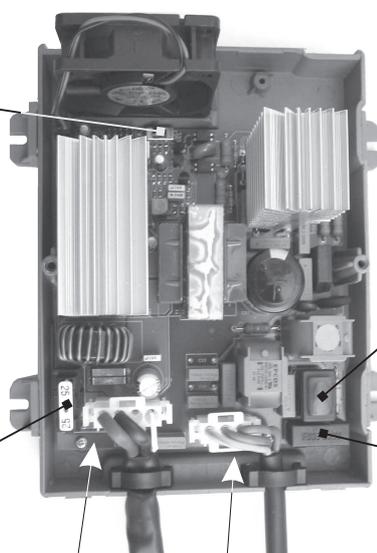
The high frequency switching technology allows to have high performances with small dimensions and limited weight.

CONNECTIONS

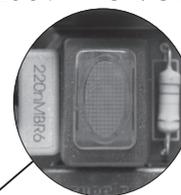
**Battery
Pb / Gel**



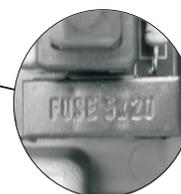
F1	CB 510	15A
	CB 516	25A



230V \sim On/Off



**Fuse 230V \sim
F2 - T 2A**



1

2

1 WHITE	12V --- CONNECTION
	<ol style="list-style-type: none"> 1) + 12V --- supply 2) - 12V --- supply 3) N.C. 4) Net signal (+12V ---)

2 WHITE	230V a.c. CONNECTION
	<ol style="list-style-type: none"> 1) Earth 2) Neutral 3) Line

- Technical data are indicated also in the label inside the cover -

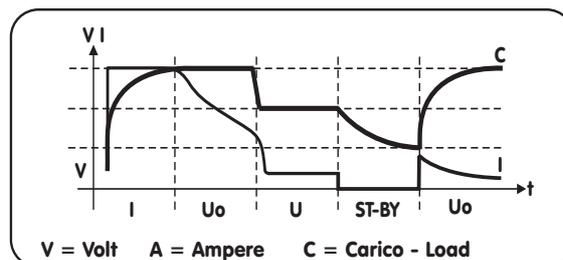
SPECIFICATIONS

INPUT TECHNICAL DATA	
Nominal voltage	230V ~ ±10%
Frequency	50 Hz
Maximum power	CB510 - 150 W CB516 - 250 W
Protection fuse ref. F2	T 2A (glass 5x20)
Security switch	230V ~ luminous

OUTPUT TECHNICAL DATA	
Maximum voltage	14,3 V = (Pb-Gel) - 14,1V = (Pb-Acido)
Maintenance voltage	13,8 V = (Pb-Gel) - 13,5V = (Pb-Acido)
Maximum output current	CB510 - 10A CB516 - 16A
Charge line	IUoU
Battery type selector	Pb-Acido / Pb-Gel
Short circuit and inversion polarity protected ref. F1	CB510 - 15A (car type) CB516 - 25A (car type)
Thermal protection	Yes
Net presence signalling (S)	12V = ; 50 mA

GENERAL TECHNICAL DATA	
Efficiency	86 %
Room temperature	0 - +50 °C
Ventilation	Automatic regulation variable (only CB-516)
Security directives	2006/95/CE
EMC directives	2004/108/CE
Net connection	"mate-n-lock" 3 poles
Battery connection	"mate-n-lock" 4 poles
Dimensions	180 x 140 x 85 (mm)
Weight	1kg

CHARGING LINE "IUoU"



INSTALLATION

Fig.1 - DIMENSIONS (mm):

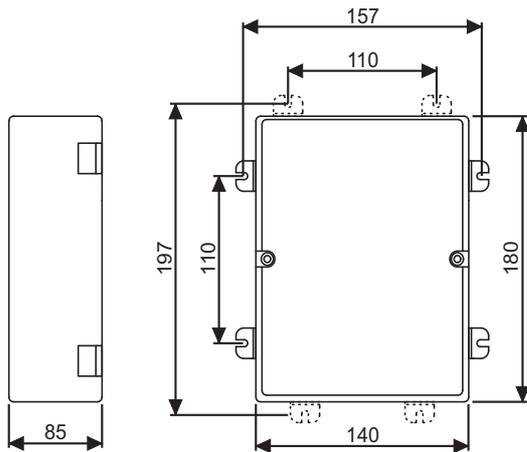


Fig.2 - VERTICAL INSTALLATION



- IMPORTANT:** - The installation of this device must be carried out by specialized technicians.-
- **Caution, do not connect the battery charger:**
 - when a generator set with non stabilised output voltage is employed
 - with power mains voltage exceeding the rated value (230V ~ ±10%)
 - Do not carry out any maintenance when the battery charger is connected to the 230V ~ power supply net.
 - In case of battery charger's misuse, the guarantee falls off and the manufacturer declines all responsibility for damages to people and things.
 - This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.**

BATTERY CHARGER

- Install the battery charger in an appropriate housing, dry and ventilated; maximum efficiency can be obtained when the battery charger is installed in vertical position (see figure 2), keeping the front side at minimum distance of 300 mm and the bottom and top side at a minimum distance of 100 mm from the housing sides.
- Do not cover air intakes.
- To guarantee a proper change of air the installation of two air intakes (one placed on the top and one on the bottom, see figure 2) ensuring a working temperature inside the housing not exceeding 50 °C.
- Make sure that the 230V ~ safety switch can be easily reached.
- The connection to power supply mains shall be made in accordance with national installation rules.
- Before disconnecting the battery charger from 230V ~ power supply, turn the safety switch off.
- The installation requires the fixing of no. 4 pins that can be easily placed on the 4 sides.
- The battery charger can be installed together with CBE 12V and 230V distribution panels, using the appropriate modular joints.

CABLES

- Mains connection: use a 3x1.5mm² cable, type H05 RN-F or equivalent.
- Battery connection: use N07 V-K cables having adequate section (minimum section 4mm²).
- Fix the cables with the relevant blocking devices supplied.
- Protect cables from any possible damage.

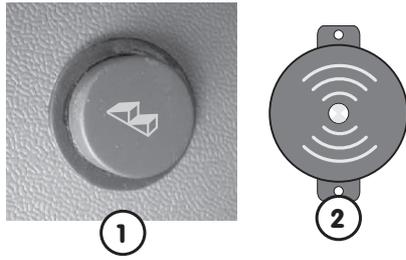
BATTERY

- Lead-acid batteries shall be positioned in a well ventilated place.
- Use only 12V = rechargeable lead batteries (capacity >40Ah).

Warning:

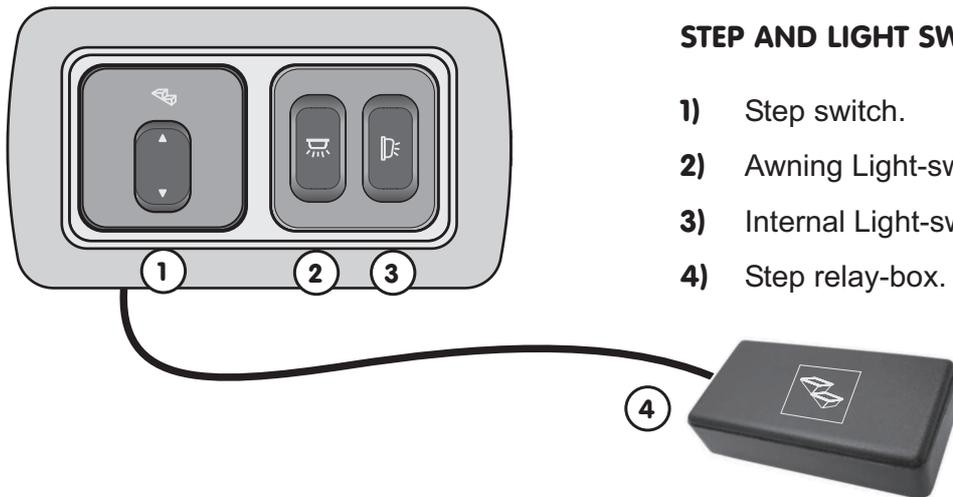
- Do not use "not rechargeable" batteries.
- Exhausted batteries shall be disposed in accordance with existing environmental protection regulations.

SWITCH MODULES



STEP-RETRACT BUTTON

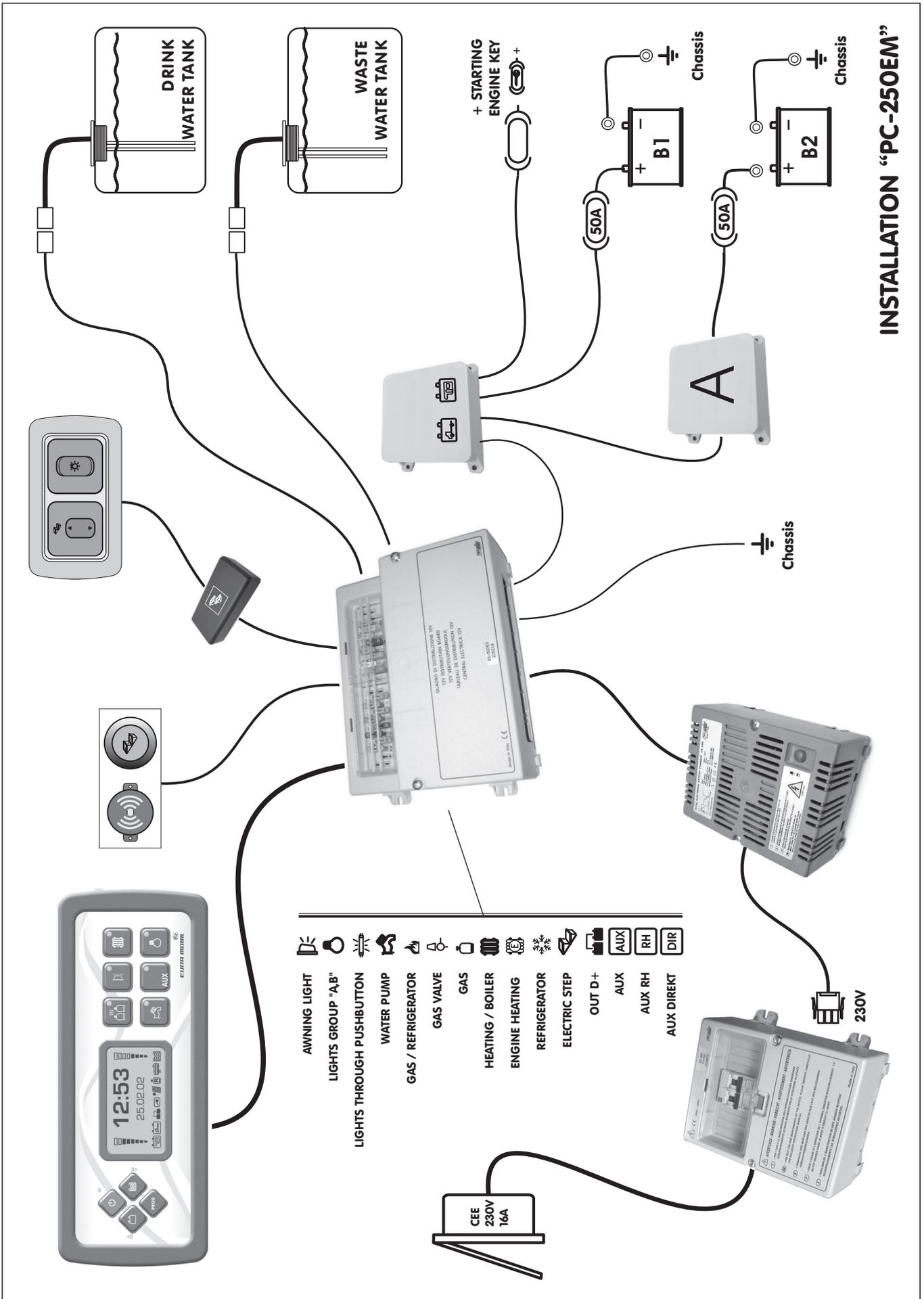
- 1) Button placed on the dashboard to the step retraction.
- 2) When motor gets turned on and the step is out, the buzzer gets on.



STEP AND LIGHT SWITCHES

- 1) Step switch.
- 2) Awning Light-switch.
- 3) Internal Light-switch.
- 4) Step relay-box.

COMPONENTS SCHEME "PC250EM"



INSTALLATION "PC-250EM"

TECHNICAL DOCUMENTATION

ADVICE AND CHECKS

IMPORTANT

- ♦ Maintenance interventions on the electric plant shall be carried out by specialized personnel.
- ♦ Before carrying out maintenances works disconnect the battery and the power supply line.

BATTERIES

- ♦ Read with care the maintenance and use instructions provided by the manufacturer.
- ♦ The acid kept in the batteries is poisoning and corrosive. Avoid any contact with skin and eyes.
- ♦ If the battery is completely discharged it needs recharging for almost 10 hours. If discharged for more than 8 weeks it may be damaged.
- ♦ Check periodically the level of the liquid of the battery (with acid); the GEL battery does not need any maintenance but a countinuous recharging.
- ♦ Check the correct tightening of the connection binding screw and brush off the oxyde.
- ♦ If the leisure battery is removed, isolate the positive pole (in order to avoid short-circuits during an accidental car engine starting).
- ♦ In case of a longer stop the services battery has to be connected or recharged regularly.

BATTERY CHARGER

- ♦ The battery charger must be installed in a dry and ventilated place.
- ♦ This device shall be installed by specialized technicians only.
- ♦ In the event of battery charger's misuse, the guarantee shall no longer be valid and the manufacturer declines all responsibility for damages to people and things.
- ♦ Do not carry out any maintenance when the battery charger is connected to the 230V power supply net.
- ♦ Do not cover air intakes and assure an appropriate ventilation.
- ♦ Before disconnecting the battery charger from 230V power supply, turn the safety switch off.

TANK PROBES

- ♦ Never let water in the tanks for long time, in order to avoid foulings, especially in the waste water tank.

230V CUT-OUT BOX

- ♦ Before taking away the cover, check if the 230V socket is disconnected.
- ♦ In order to avoid any damage to the box, check the correct tightening of the connections.
- ♦ In order to cut power to the whole 230V system, please take care that the 230V main switch must be on the "0" (OFF) position.
- ♦ Connect and disconnect the external 230V net only when the main switch is off.
- ♦ In case of automatic switch break, find the damage before giving power again to the electrical system.

FUSES

- ♦ Replace the fuses only after finding out the real cause of the damage only.
- ♦ If the fuses are replaced observe the value of the amperage established.

SYMBOLS

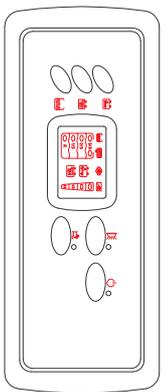
	Car battery
	Leisure battery
	2nd Leisure battery
	Battery charger
	Drink water tank
	Waste water tank
	Light
	Two-way light
	12V "dealer-socket"
	Awning light
	Internal light
	Electrical step
	Step engine
	Heating
	Boiler
	Fridge
	Gas
	Gas electrical piezo
	12V Socket
	TV Socket

	Duomatic
	Gas valve
	Pump
	WC
	Iso-Air
	Suction hood
	Marker lights
	3 rd stop
	Temperature sensors
	Radio speaker left, rearside
	Radio speaker right, rearside
	Radio speaker left, frontside
	Radio speaker right, frontside
	Car fuses
	Radio
	Signal ignition
	"X" - Light switch
	Two-way switch
	Awning light switch

	Radio switch
	Suction hood switch
	Iso-Air switch
	Brake pedal contact
	Step-comand
	Step-retract button
	Step limit switch
	Step buzzer
	Amperremetersensor
	Iso-Air box
	electric step box
	Radio-box
	230V junction box
	230V socket
	230V CEE external socket
	230V distribution box
	12V distribution box
	Battery charger
	Control panel

COLOURS

	ITALIANO	DEUTSCH	ENGLISH	FRANÇAIS
REF.	<i>COLORE CAVI</i>	<i>KABELFARBE</i>	<i>WIRE COLOR</i>	<i>COLEUR DU CABLE</i>
GR	GRIGIO	GRAU	GREY	GRIS
BL	BLU	BLAU	BLEU	BLEU
MA	MARRONE	BRAUN	BROWN	MARRON
NE	NERO	SCHWARZ	BLACK	NOIR
BI	BIANCO	WEISS	WHITE	BLANC
VE	VERDE	GRÜN	GREEN	VERT
GI	GIALLO	GELB	YELLOW	JAUNE
VI	VIOLA	VIOLE	PURPLE	VIOLET
AR	ARANCIONE	ORANGE	ORANGE	ORANGE
RO	ROSSO	ROT	RED	ROUGE

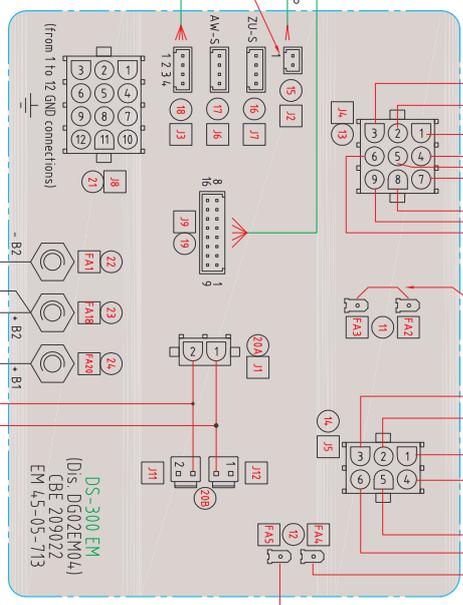
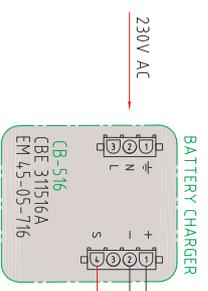
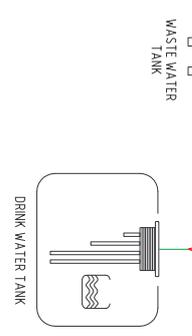


PC-100 EM
CBE 11032
EM 100152181

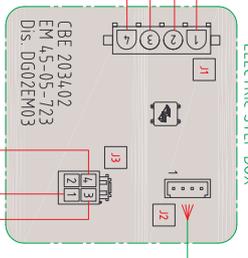
PIN	REF.	COLOR
1	SPN	WHITE
2	SPN	BROWN
3	SPN	BROWN
4	SPN	BROWN
5	SPN	BROWN
6	SPN	BROWN
7	SPN	BROWN
8	SPN	BROWN
9	SPN	BROWN
10	SPN	BROWN
11	SPN	BROWN
12	SPN	BROWN
13	SPN	BROWN
14	SPN	BROWN
15	SPN	BROWN
16	SPN	BROWN
17	SPN	BROWN
18	SPN	BROWN
19	SPN	BROWN
20	SPN	BROWN
21	SPN	BROWN
22	SPN	BROWN
23	SPN	BROWN
24	SPN	BROWN
25	SPN	BROWN
26	SPN	BROWN
27	SPN	BROWN
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31	SPN	BROWN
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92	SPN	BROWN
93	SPN	BROWN
94	SPN	BROWN
95	SPN	BROWN
96	SPN	BROWN
97	SPN	BROWN
98	SPN	BROWN
99	SPN	BROWN
100	SPN	BROWN

PIN	REF.	DESCRIPTION	COLOR
1	ADAD	QND	brown
2	KCVT	SIGNAL	white

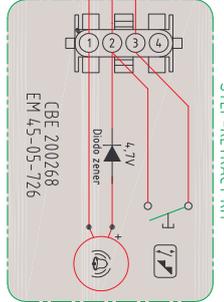
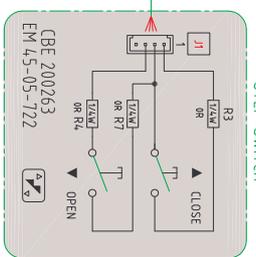
PIN	DESCRIPTION	PIN	COLOR
1	QND	1	brown
2	LEVEL 1/3	2	white
3	LEVEL 2/3	3	white
4	LEVEL 3/3	4	yellow



- EXIT AWNING LIGHT
- EXIT PUMP
- EXIT STOVE / BOILER
- n°3 • EXIT LIGHTS GROUP "A"
- n°3 • EXIT LIGHTS GROUP "B"
- n°2 • EXIT 3-WAY FRIDGE / AES
- EXIT "AUX" (DIRECT B2)
- EXIT STEP
- EXIT OUT D.
- n°2 • EXIT GAS MAINS SUPPLY
- EXIT OUT D.
- EXIT AWNING LIGHT
- EXIT PUMP
- EXIT STOVE / BOILER
- n°3 • EXIT LIGHTS GROUP "A"
- n°3 • EXIT LIGHTS GROUP "B"
- n°2 • EXIT 3-WAY FRIDGE / AES
- EXIT "AUX" (DIRECT B2)
- EXIT STEP
- EXIT OUT D.
- n°2 • EXIT GAS MAINS SUPPLY
- EXIT OUT D.



PIN	REF.	PIN	REF.
1	J2	1	J1
2	J2	2	J1
3	J2	3	J1
4	J2	4	J1
5	J2	5	J1
6	J2	6	J1
7	J2	7	J1
8	J2	8	J1
9	J2	9	J1
10	J2	10	J1
11	J2	11	J1
12	J2	12	J1
13	J2	13	J1
14	J2	14	J1
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94	J2	94	J1
95	J2	95	J1
96	J2	96	J1
97	J2	97	J1
98	J2	98	J1
99	J2	99	J1
100	J2	100	J1



SEE INSTRUCTION MANUAL

SEE WIRING DIAGRAM

Disegno di proprietà esclusiva della CBE S.p.A. TN. È vietata la riproduzione e la comunicazione a terzi senza autorizzazione scritta.

Modello: ...

Descrizione: Schema elettrico generale "PROFIL A" - EURA

General wiring diagram "PROFIL A" - EURAWOBL

Trattamento e/o finiture: ...

Edizione: Data 27/10/09 Firma R. Condi

Scale: /

Toll. gen.: /

N° Fogli: 1/1

Autocad - A2

Sostituisce il: /

Sostituito da: /

REVISIONI

Rev. Data Descrizione

Rev. Data

19) SEE INSTRUCTION MANUAL

18) SEE WIRING DIAGRAM

Autocad - A2

Sostituisce il: /

Sostituito da: /

REVISIONI

Rev. Data Descrizione

Rev. Data

Modello: ...

Descrizione: Schema elettrico generale "PROFIL A" - EURA

General wiring diagram "PROFIL A" - EURAWOBL

Trattamento e/o finiture: ...

Edizione: Data 27/10/09 Firma R. Condi

Scale: /

Toll. gen.: /

N° Fogli: 1/1

Autocad - A2

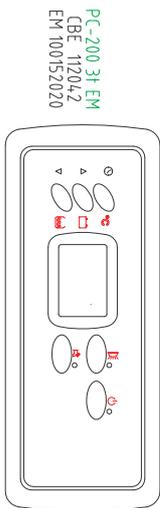
Sostituisce il: /

Sostituito da: /

REVISIONI

Rev. Data Descrizione

Rev. Data

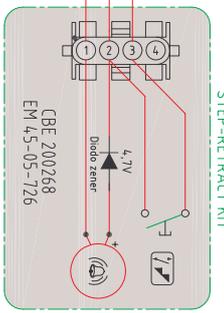
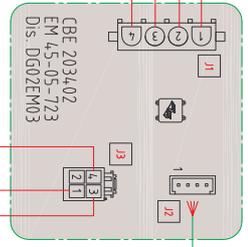
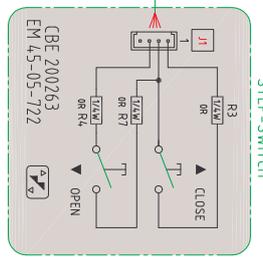
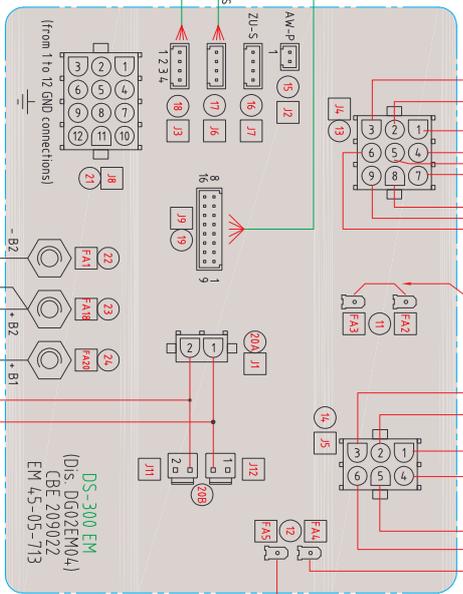
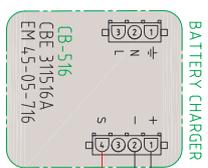


PC-200 3H EM
CBE 11204-2
EM 100152020

PIN	DESCRIPTION	REF.	COLOR
1	5V	1	WHITE
2	GROUND	2	BROWN
3	GROUND	3	YELLOW
4	GROUND	4	PINK
5	GROUND	5	RED
6	GROUND	6	ORANGE
7	GROUND	7	GREEN
8	GROUND	8	BLUE
9	GROUND	9	PURPLE
10	GROUND	10	BROWN
11	GROUND	11	YELLOW
12	GROUND	12	PINK
13	GROUND	13	RED
14	GROUND	14	ORANGE
15	GROUND	15	GREEN
16	GROUND	16	BLUE
17	GROUND	17	PURPLE
18	GROUND	18	BROWN
19	GROUND	19	YELLOW
20	GROUND	20	PINK
21	GROUND	21	RED
22	GROUND	22	ORANGE
23	GROUND	23	GREEN
24	GROUND	24	BLUE
25	GROUND	25	PURPLE
26	GROUND	26	BROWN
27	GROUND	27	YELLOW
28	GROUND	28	PINK
29	GROUND	29	RED
30	GROUND	30	ORANGE
31	GROUND	31	GREEN
32	GROUND	32	BLUE
33	GROUND	33	PURPLE
34	GROUND	34	BROWN
35	GROUND	35	YELLOW
36	GROUND	36	PINK
37	GROUND	37	RED
38	GROUND	38	ORANGE
39	GROUND	39	GREEN
40	GROUND	40	BLUE
41	GROUND	41	PURPLE
42	GROUND	42	BROWN
43	GROUND	43	YELLOW
44	GROUND	44	PINK
45	GROUND	45	RED
46	GROUND	46	ORANGE
47	GROUND	47	GREEN
48	GROUND	48	BLUE
49	GROUND	49	PURPLE
50	GROUND	50	BROWN
51	GROUND	51	YELLOW
52	GROUND	52	PINK
53	GROUND	53	RED
54	GROUND	54	ORANGE
55	GROUND	55	GREEN
56	GROUND	56	BLUE
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59	GROUND	59	YELLOW
60	GROUND	60	PINK
61	GROUND	61	RED
62	GROUND	62	ORANGE
63	GROUND	63	GREEN
64	GROUND	64	BLUE
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66	GROUND	66	BROWN
67	GROUND	67	YELLOW
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69	GROUND	69	RED
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74	GROUND	74	BROWN
75	GROUND	75	YELLOW
76	GROUND	76	PINK
77	GROUND	77	RED
78	GROUND	78	ORANGE
79	GROUND	79	GREEN
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82	GROUND	82	BROWN
83	GROUND	83	YELLOW
84	GROUND	84	PINK
85	GROUND	85	RED
86	GROUND	86	ORANGE
87	GROUND	87	GREEN
88	GROUND	88	BLUE
89	GROUND	89	PURPLE
90	GROUND	90	BROWN
91	GROUND	91	YELLOW
92	GROUND	92	PINK
93	GROUND	93	RED
94	GROUND	94	ORANGE
95	GROUND	95	GREEN
96	GROUND	96	BLUE
97	GROUND	97	PURPLE
98	GROUND	98	BROWN
99	GROUND	99	YELLOW
100	GROUND	100	PINK

PIN	DESCRIPTION	REF.	COLOR
1	5V	1	WHITE
2	GROUND	2	BROWN
3	GROUND	3	YELLOW
4	GROUND	4	PINK

PIN	DESCRIPTION	REF.	COLOR
1	5V	1	WHITE
2	GROUND	2	BROWN
3	SIGNAL	3	GREEN



REVISIONI

N°	Data	Descrizione
1		

Autocad - A2

Sostituisce il: _____
Sostituito da: _____

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SEE INSTRUCTION MANUAL

SEE WIRING DIAGRAM

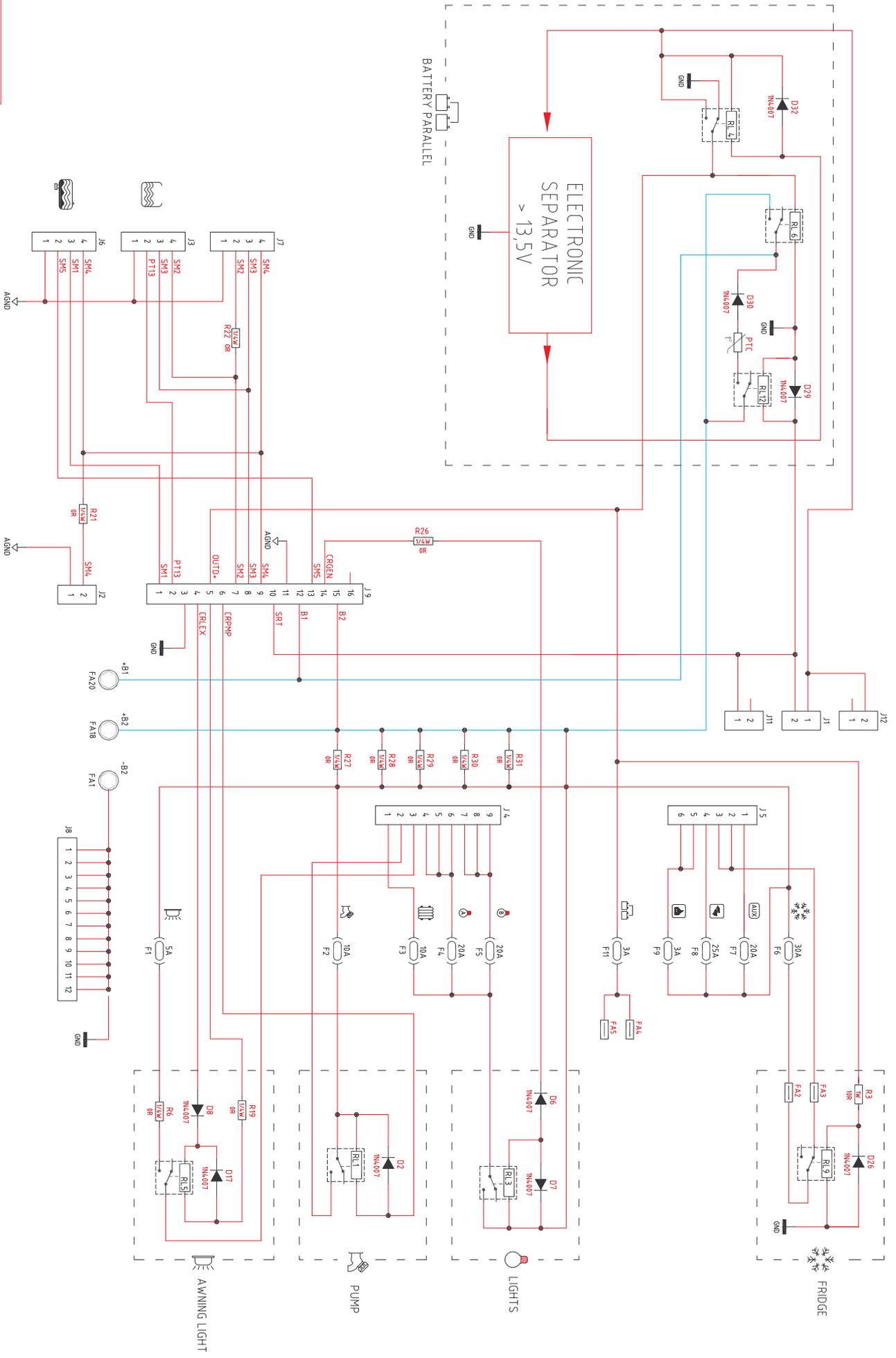
DESCRIZIONE: Schema elettrico generale "TERRESTRA" - EURAMOBIL
general wiring diagram "TERRESTRA" - EURAMOBIL

Materiali: _____
Traffimanti e/o finiture: _____

Scale: _____
N° Fogli: 1/1

Autocad - A2
D501EM05_01

DS-300EM
 Dis.DG02EM04
 CBE 209022
 EM 4.5.05.713



AUTOCAD - A2
 Sostituisce il:
 Sostituito da:
 REVISIONI:

Nr.	Data	Descrizione

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Materiali: Scheda quadro distribuzione "S0300P" - C.S. cod. 0019255

Treatment: e/o finiture

Elab. Data 22/07/04 Firma: R. Condi

Aut. DG02

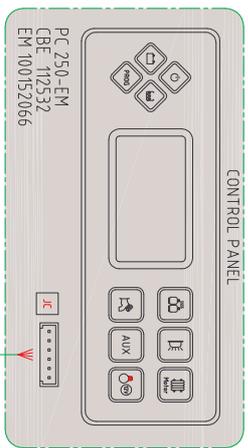
Disegno: Disegno

Descrizione: Schema elettrico modello 12V 9 FUSIBILI "DS-300EM". Wiring diagram "DS-300EM" - EURAKOBIL.

Scale: /

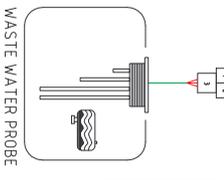
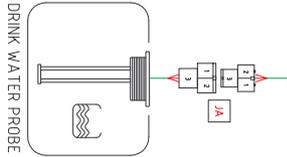
N° Fogli: 1/1

Disegno: DG02EM04_00



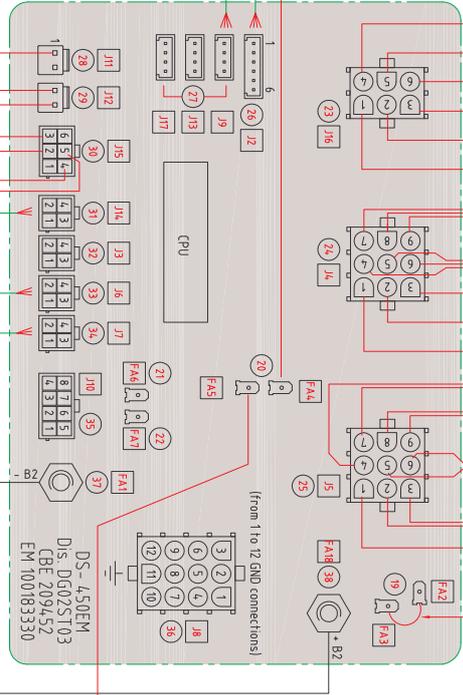
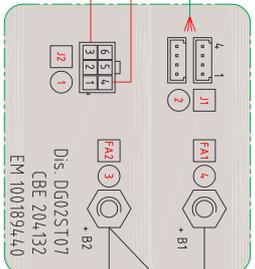
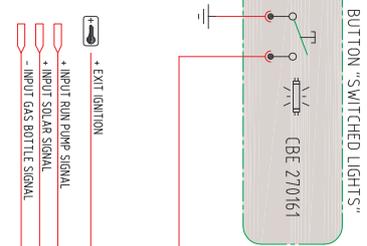
PIN	DESCRIPTION	PIN	COLOR
1	+2V (RL6)	1	white
2	GND	2	brown
3	-BUS	3	green
4	-BUS	4	yellow
5	PANEL ON	5	grey
6	+2V (F1)	6	pink

PIN	DESCRIPTION	PIN	COLOR
1	+5V	3	white
2	GND	1	brown
3	SIGNAL	2	green
/	/	4	/



PIN	DESCRIPTION	PIN	COLOR
1	+5V	3	white
2	GND	1	brown
3	SIGNAL	2	green
/	/	4	/

PIN	DESCRIPTION	PIN	COLOR
1	+12V (RL6)	1	brown
2	GND	2	yellow
3	-BUS	3	white
4	-BUS	4	green



PIN	DESCRIPTION	PIN	COLOR
1	+12V (RL6)	1	brown
2	+5V	2	white
3	SIGNAL	3	green
4	GND	4	yellow

27 SEE INSTRUCTION MANUAL

108 SEE WIRING DIAGRAM

Autocad - A2

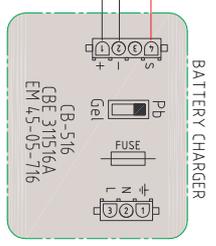
Sostituisce il:

Sostituito da:

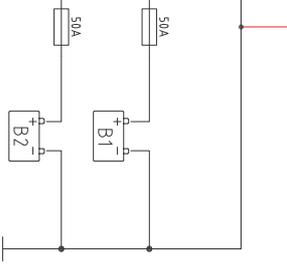
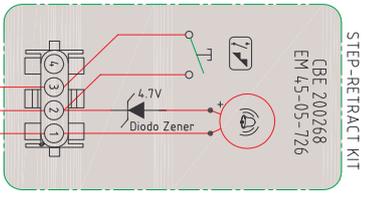
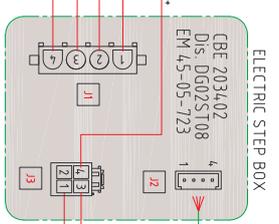
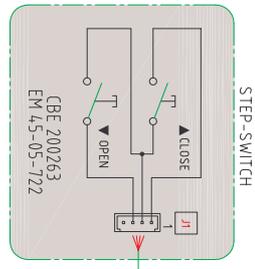
REVISIONI

Rev. Data Descrizione

Technical data on instructions sheets can be modified without notice, because technical improvements are continually made.



PIN	DESCRIPTION	PIN	COLOR
1	MOTOR CLOSE	1	white
2	+STEP	2	brown
3	MOTOR OPEN	3	green
4	/	4	/



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Materiali

Traffimonto e/o finiture

REVISIONI

Rev. Data Descrizione

Descrizione: Schema elettrico generale "PC-250 / DS-450EM" - L-Klasse

general electric wiring diagram "PC-250 / DS-450EM"

Famiglia prod. Arch. DG 01

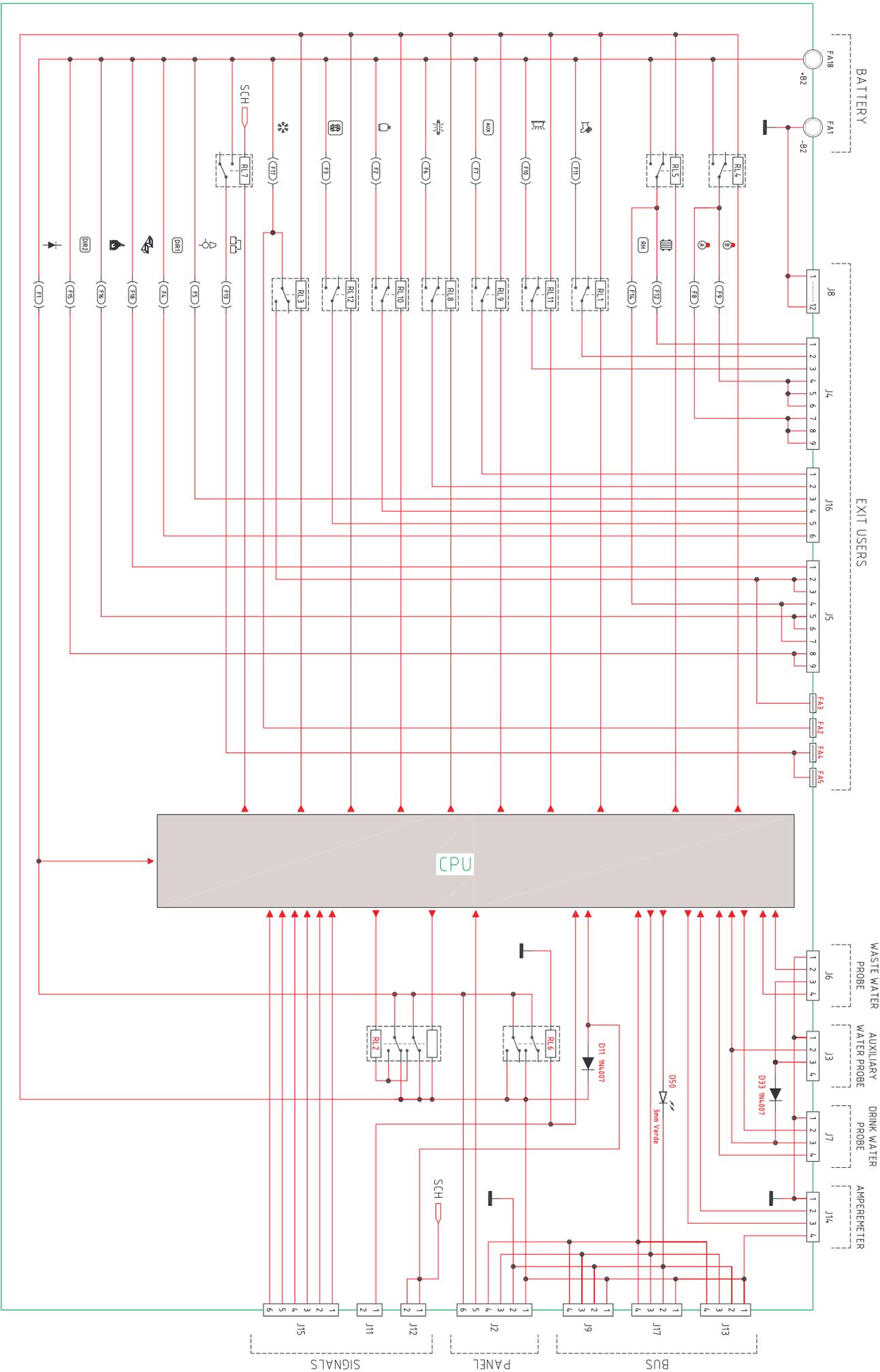
Scale /

N° Fogli /

Totale /

1/1

DSG1EM07 01



AUTOCAD - A2
 Sostituisce il:
 Sostituito da:
 REVISIONI

Nr.	Data	Descrizione

Disegno di proprietà esclusiva della CRE S.p.A. TN, è vietata la riproduzione e la comunicazione a terzi senza autorizzazione scritta. Nr. 25/1

Rel. / Data / Codice / Descrizione

DESCRIZIONE: Schema elettrico modello 12V 18 FUSIBILI "DS-450EM"
 Wiring diagram "DS-450EM" - EURAKOBIL

Materiale: Scheda quadro distribuzione "S04502" - CS cod. 001929C

Traffimonto e/o firmare:

Elab. Data 22/08/07 Firma R. Conci

CO.DICE 209452

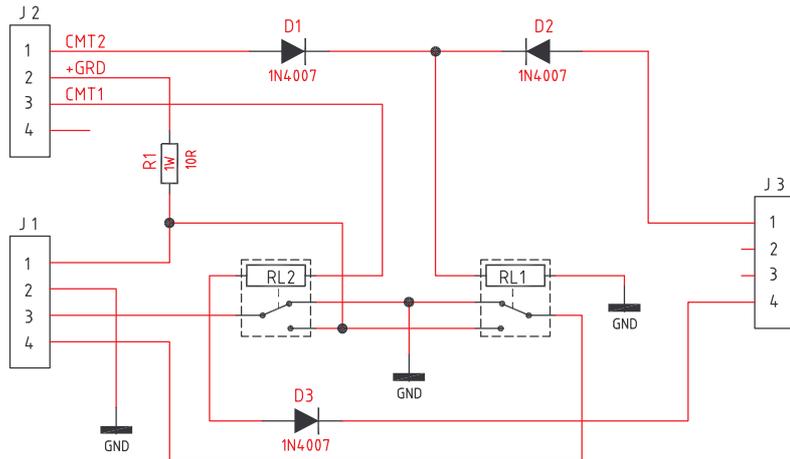
Famiglia prod. Arch. DGG
 SCHEMI ELETTRICI COMUNI

Scala / N° Fogli 1/1

N° USIGNO DGG02EM05.00

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Rif.	Qtà.	Codice	Disegno	Descrizione	Materiale
------	------	--------	---------	-------------	-----------



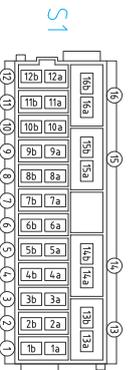
ELECTRIC STEP BOX
CBE 203402
EM 45-05-723

REVISIONI			Firma
Rev.	Data	Descrizione	

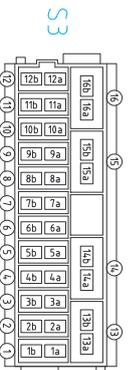
DESCRIZIONE: Schema elettronico generale "SCATOLA GRADINO" General electronic wiring diagram "ELECTRIC STEP BOX"		Famiglia prod.: Arch.: DG 02
Materiale: /		SCHEMI ELETTRICI COMUNI
Trattamento e/o finiture:		Scala: N° Fogli: 1 / 1
		Toll.gen.:

CBE 38014 Gardolo TN ITALY	Elab. Data: 15/07/04	Firma: R. Conci	CODICE 203402	N° DISEGNO DG02EM06.00
	Appr. Data:	Firma:		

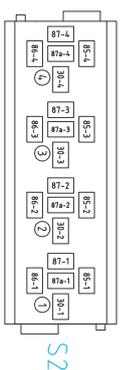
Sostituisce it: Sostituito da:



N°	FUSE	BESCHREIBUNG	Abhängig vom
1	5A	Belegungsleuchte links	+Scheinwerfer
2	5A	Belegungsleuchte rechts	Scheinwerfer
3	20A	12V/ TV/ SAT Steckdose	RH
4	20A	12V/ TV/ SAT Steckdose	RH
5	20A	12V/ TV/ SAT Steckdose	RH
6	20A	12V/ TV/ SAT Steckdose	RH
7	5A	Backofen mit Grill	RH
8	40A	Backofen mit Grill	RH
9	20A	Inverter 300W	RH
10	20A	12V/ TV/ SAT Steckdose	RH
11	15A	Fahrerfuß	Zündung
12	20A	Radio + Subwoofer	DIR B2
13	20A	Rückfahrkamera	DIR B2
14	20A	Rückfahrkamera	DIR B2
15	20A	Rückfahrkamera - "DMP"	DIR B2
16		Sitze	DIR B1

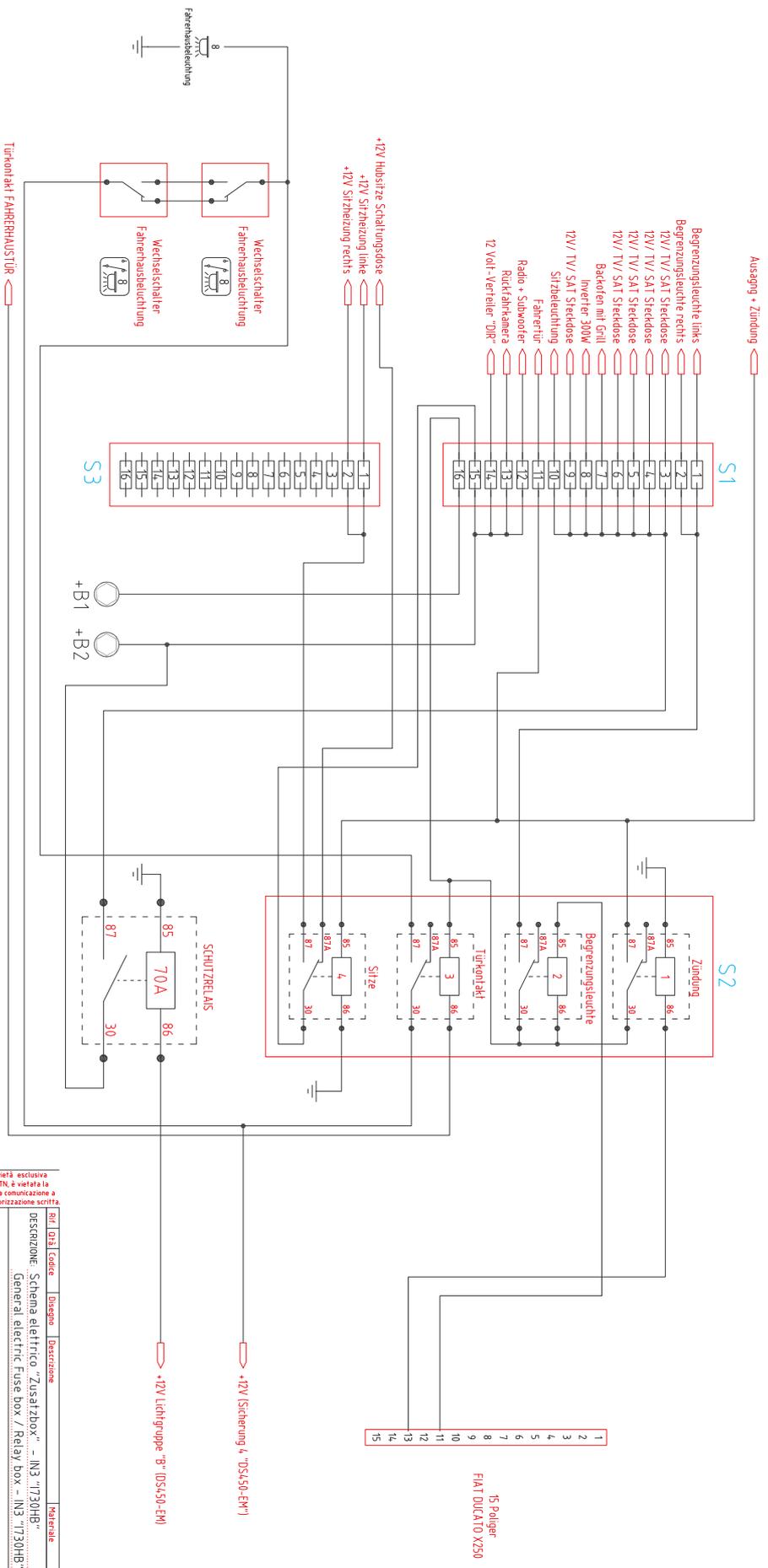


N°	FUSE	BESCHREIBUNG	Abhängig vom
1	7.5A	Sitzheizung	Zündung
2	/	/	/
3	/	/	/
4	/	/	/
5	/	/	/
6	/	/	/
7	/	/	/
8	/	/	/
9	/	/	/
10	/	/	/
11	/	/	/
12	/	/	/
13	/	/	/
14	/	/	/
15	/	/	/
16	/	/	/



N°	BESCHREIBUNG
1	Relais Zündung
2	Relais Belegungsleuchte
3	Relais Türkontaktf
4	Relais Sitze

RH = aktiv wenn Control Panel ON

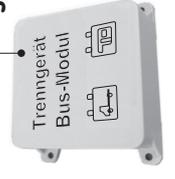


AUTOCAD - A2
Sassifusce #:
Sassifusce da:
REVISIONI
Rev. Data
Descrizione

Disegno di proprietà esclusiva della CBE S.n.c. TN. È vietata la riproduzione e la comunicazione a terzi senza autorizzazione scritta dalla CBE S.n.c. TN.	
Titolo	Schema elettrico "Zusatzbox" - INS "1730HB"
Descrizione	General electric Fuse box / Relay box - INS "1730HB"
Autore	Elab. Data: 27/10/09 Firma: A. Fogaroli
Verificatore	Elab. Data: 27/10/09 Firma: A. Fogaroli
Disegnato	Elab. Data: 27/10/09 Firma: A. Fogaroli
Materiali	Elab. Data: 27/10/09 Firma: A. Fogaroli
Scale	1/1
N° Disegno	DG01EM09_00
N° Fogli	1/1

15 Poliger
FAI DUCATO X250

Trenngerät Bus-Modul
"SBB-100"



Amperemeter "80A"



Ladegerät
"CB516"



DS450-EM



+B1 +B2

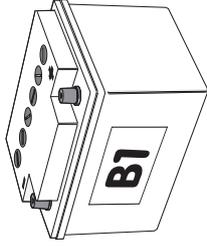
+B2 +12V

+B2 -B2

NET
SIGNAL

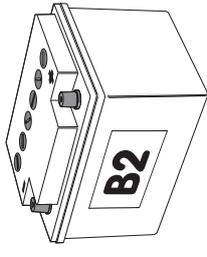
50A

+B1 -B1



FAHRZEUGBATTERIE

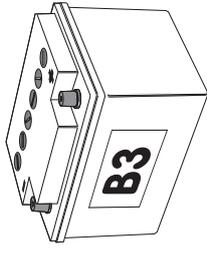
+B2 -B2



VERBRAUCHERBATTERIE
1

50A

+B3 -B3



VERBRAUCHERBATTERIE
2

Mod. 21.50
Disegno di proprietà esclusiva
della CBE S.r.l. TN, è vietata la
riproduzione e la comunicazione
a terzi senza autorizzazione scritta.

DESCRIZIONE: LEISTUNGSLEITUNGEN
Euromobil 2009 - IN3

Famiglia prod.: Arch.: PR EM
CORSO EURAMOBIL 09

Materiale: /
Trattamento e/o finiture: /

Scala: / N. Fogli: 1 / 1
Tot. gen.: /

Elab. Data: 29/10/09
Firma: A. Fogaroli
38014 Gardolo TN

N. DISEGNO
EM090101.A

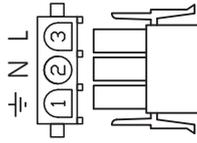
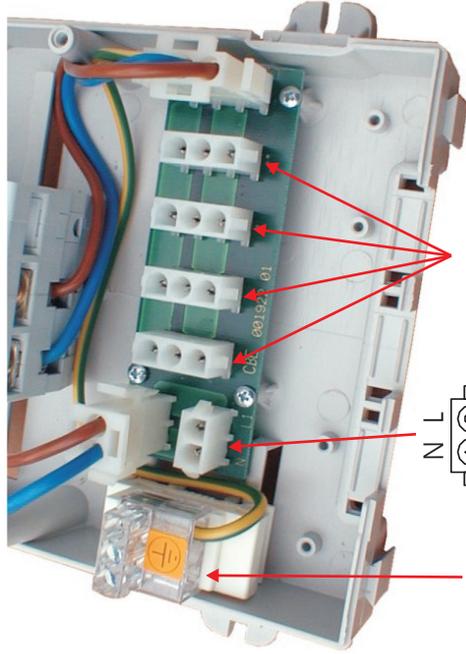
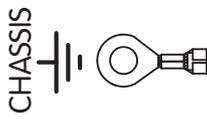
CODICE /

Firma:

Data:

Firma:

ITALY



YE/GR - 4 mm²

3x2.5 mm²

3x1.5 mm²



AVVERTENZA - WARNING - VORSICHT - AVERTISSEMENT - ADVERTENCIA

• PER L'USO E LA MANUTENZIONE DELL'APPARECCHIATURA OSSERVARE SCrupolosamente QUANTO RIPORTATO NELLE ISTRUZIONI ALLEGATE.

• FOR BEST USE AND MAINTENANCE OF THE DEVICE, PLEASE OBSERVE CAREFULLY THE INCLUDED INSTRUCTION MANUAL.

• GERÄUCH UND WARTUNG DES GERÄTES NUR LAUT DEN BEILIEGENDEN GEBRAUCHSANWEISUNGEN.

• POUR L'USAGE ET L'ENTRETIEN DE L'APPAREIL, OBSERVEZ RIGORÉMENT CE QUI EST INDICÉ DANS LE MODE D'EMPLOI CI-JOINT.

• PARA EMPLEO Y MANUTENCIÓN DE ESTE APARATO RESPECTAR ESCrupolosamente LAS ISTRUCCIONES ADJUNTAS.

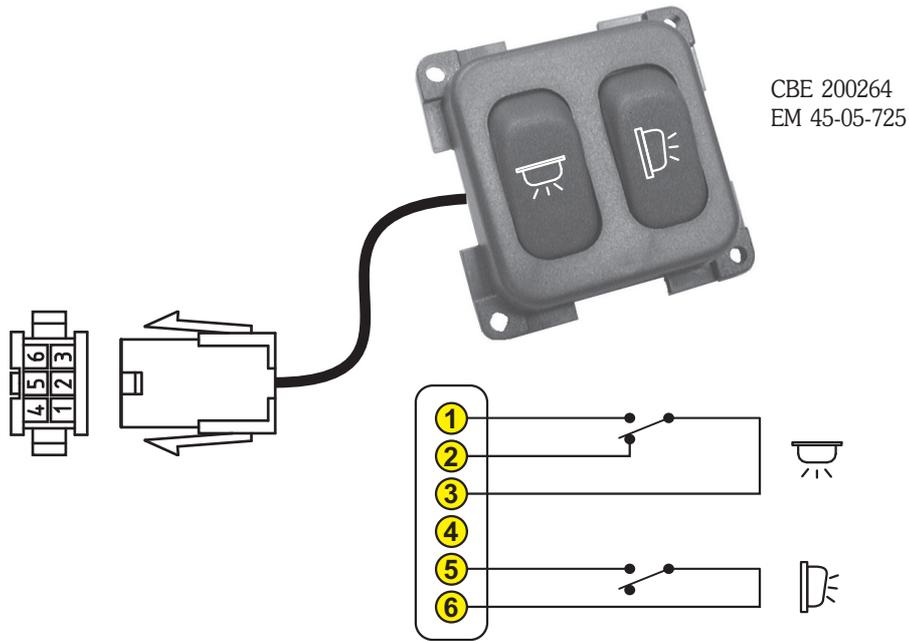
Made in Italy

Coreldraw-A3	Sostituisce il:	/
	Sostituito da:	/
	REVISIONI	

Rev.	Data	Descrizione	Firma
Disegno di proprietà della CBE S.r.l. TN, è vietata la ristampa o l'uso non autorizzato.			
Ref. Qrã	Codice	Disegno	Descrizione
DESCRIZIONE: ANSCHLUSSPLAN "DS120-S"			
WIRING DIAGRAM "DS120-S"			
Euro mobil			
Trattamento e/o finiture: /			
Elab	Data	Firma	CODICE
Appr.	Data	Firma	/
Famiglia prod:		Arch: PR	
CORSO EURAMOBIL 09		N. Fogli: 1/1	
Scala:	/	Toll. gen.:	/
N. DISEGNO		230V.A	

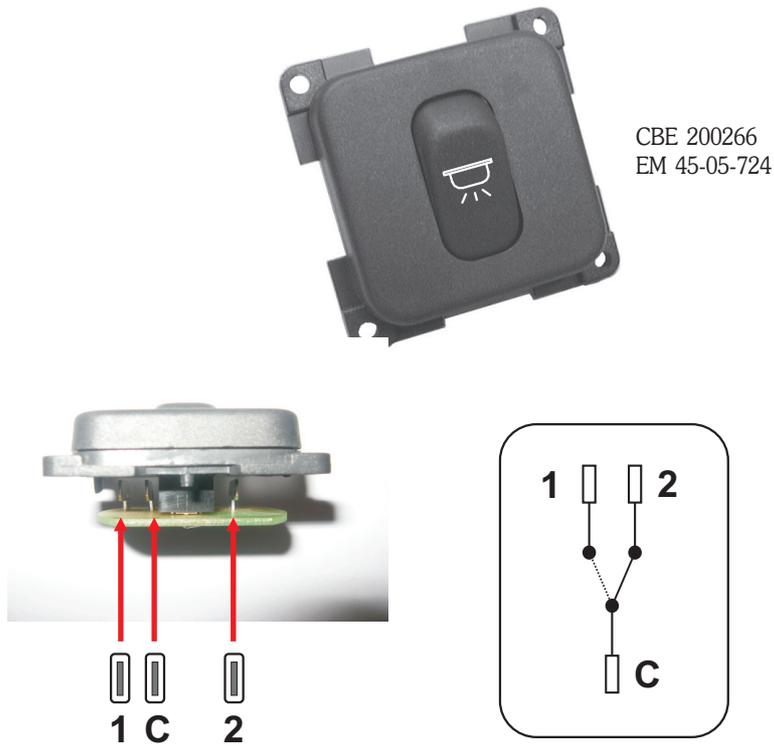
Mod.26 SQ. - CORELDRAW A4 Disegno di proprietà esclusiva della CBE S.n.c. TN, è vietata la riproduzione e la comunicazione a terzi senza autorizzazione scritta.

DOPPEL SCHALTER
DOUBLE SWITCH



CBE 200264
EM 45-05-725

SCHALTER
SWITCH



CBE 200266
EM 45-05-724

Due to continued improvement, this specification is subject to change without prior notice.

GB

Descrizione: DOPPEL SCHALTER / SCHALTER
DOUBLE SWITCH/ SWITCH
/
/

Foglio / Sheet

1 / 1

Data

29/10/09



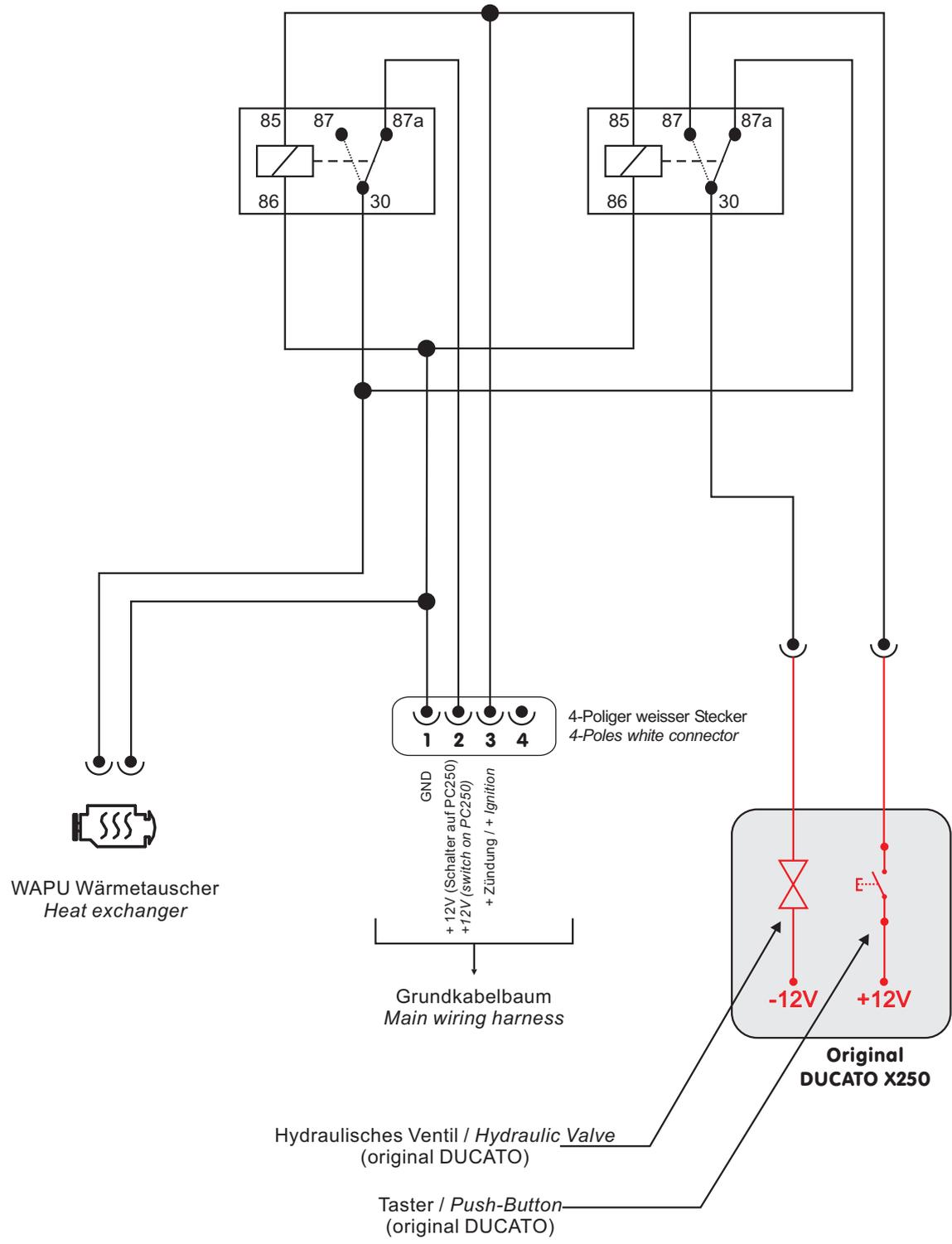
CLIENTE / CUSTOMER
EURAMOBIL

MODELLO / MODEL
MCDxN / MC12N

CODICE / CODE
/

N° DISEGNO / DESIGN NUMBER
DA 11 ST 08 .00

Disegno di proprietà esclusiva della CBE S.n.c. TN, è vietata la riproduzione e la comunicazione a terzi senza autorizzazione scritta.



Mod.26 SQ. - CORELDRAW A4

Descrizione: **ANSCHLUSSPLAN PUMPE "MOTORWÄRMETAUSCHER" L-KLASSE ALDE-HEIZUNG**
WIRING DIAGRAM PUMP HEAT EXCHANGER L-KLASSE ALDE HAETING

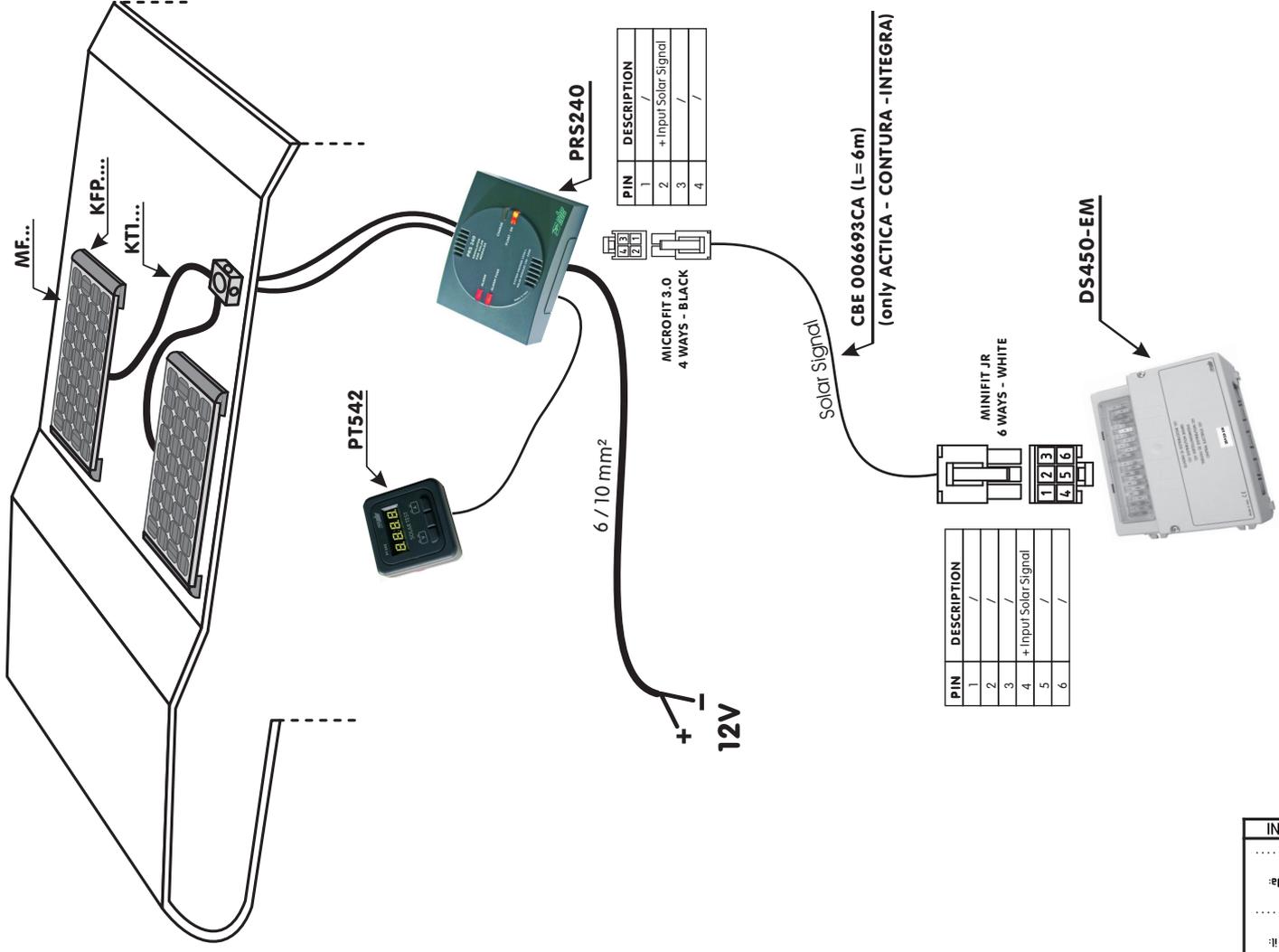
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/

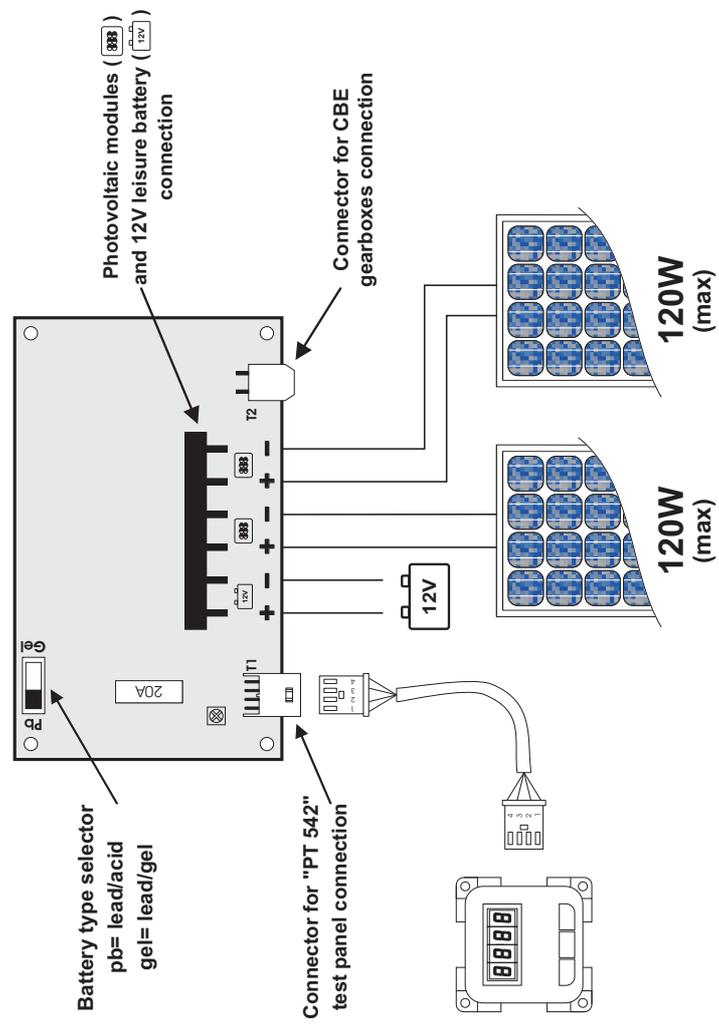
Foglio / Sheet
1 / 1

Data
30/10/09

CBE Elettrotecnica 38014 Gardolo TN ITALY	CLIENTE / CUSTOMER	MODELLO / MODEL	CODICE / CODE	N° DISEGNO / DESIGN NUMBER
	EURAMOBIL	/	/	DG 01AC 01 .A



CONNECTIONS



Disegno di proprietà
e s c l u s i v a
della CBE S.r.l. TN, è vietata
la ristampa o l'uso
non autorizzato

Rev.	Data	Descrizione	Firma
1	30/10/09	Firma: A. Fogarolli	Firma:
1	30/10/09	Appr: Data:	Firma:

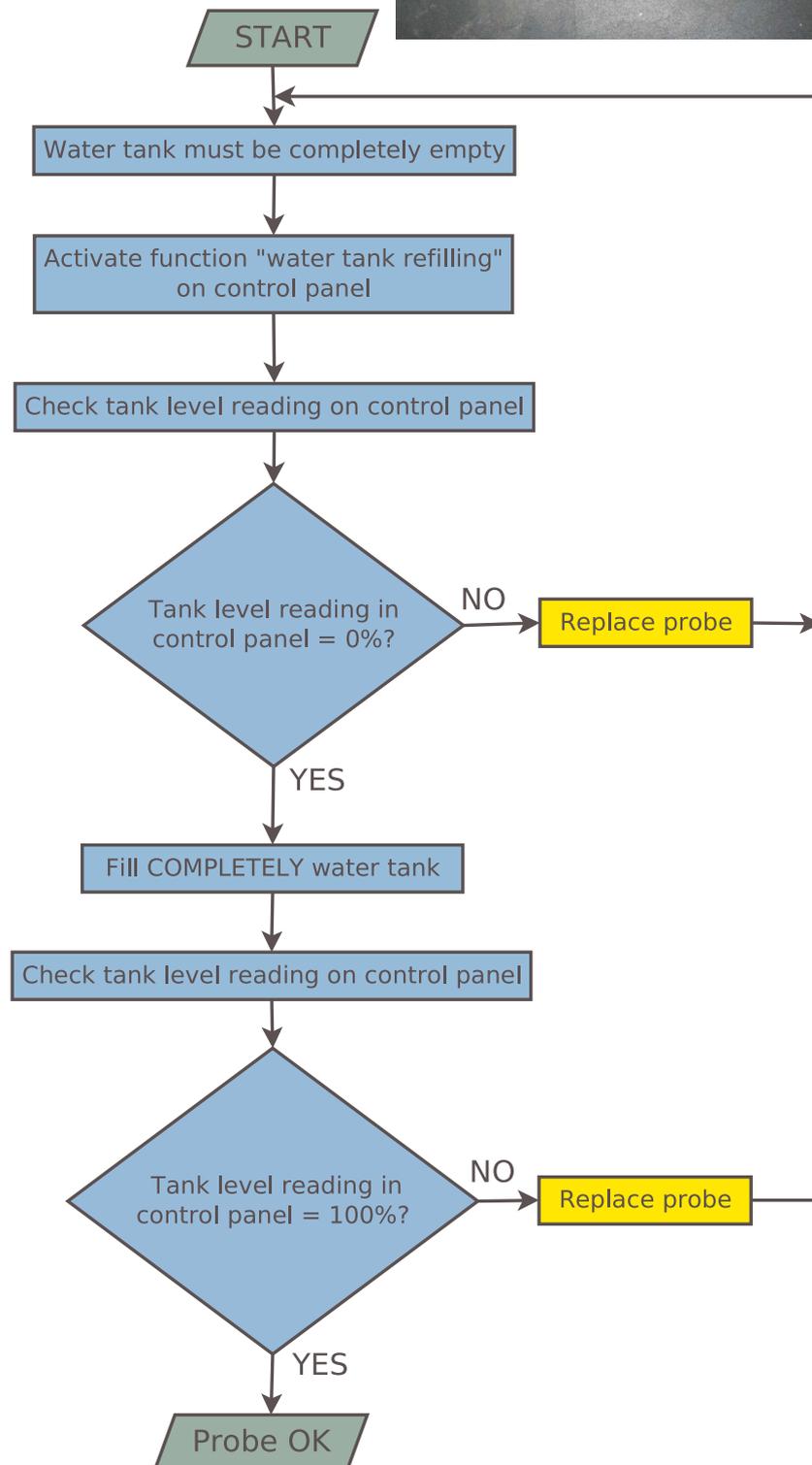
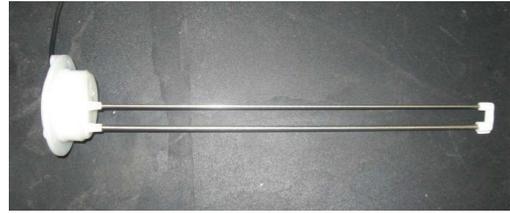
Ref.	Data	Codice	Disegno	Descrizione	Materiale
				DESCRIZIONE: ANSCHLUSSPLAN "PRS240" WIRING DIAGRAM "PRS240"	

Famiglia prod.:	Arch.:	N. Fogli:
CORSO EURAMOBIL 09	PR	1/1

Scala:	Toll. gen.:	N. DISEGNO
/	/	SOLAR.A

Trattamento e/o finiture:	Elab.:	Data:	Firma:	CODICE
EURAMOBIL	CBE Elettrotecnica	30/10/09	A. Fogarolli	/
	380% Gardolo TN			
	ITALY			

TROUBLESHOOTING GUIDE FOR ELECTRONIC WATER TANK PROBE

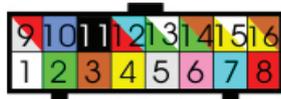


VIEW FROM THE BACK



CABLE 6 WAY (for ACTIVA, CONTURA and INTEGRA)		
PIN	COLOR	DESCRIPTION
1	White	12V On/Off relay
2	Brown	Ground
3	Green	Bus Data
4	Yellow	
5	Grey	Command ON/OFF Button
6	Pink	+12V "B2"

VIEW FROM THE BACK



CABLE 16 WAY (for PROFILE and TERRESTRA)			
PIN	COLOR	DESCRIPTION	
		PC200	PC100
1	White	+5V Tank probes	/
2	Green	Signal Drink Water Tank	Water Tank Lev.1/3
3	Brown	Ground	Ground
4	Yellow	Command Awning Light	Command Awning Light
5	Grey	Out D+	Out D+
6	Pink	Command Pump	Command Pump
7	Blue	Signal Auxiliary Tank	Water Tank Lev.3/3
8	Red	+5V Tank probes	Water Tank Lev.2/3
9	Grey/Red	/	Waste Tank
10	Violet	Net Signal 230V	Signal 230V
11	Black	Ground	Ground
12	Red/Blue	+12V "B1"	+12V "B1"
13	Green/White	Signal Waste Tank	/
14	Green/Brown	Command ON/OFF relay	Command ON/OFF relay
15	Yellow/White	+12V "B2"	+12V "B2"
16	Yellow/Brown	/	/