

# MOLPIR

Každý má sny...

# User Manual

Ord.No.: 471252



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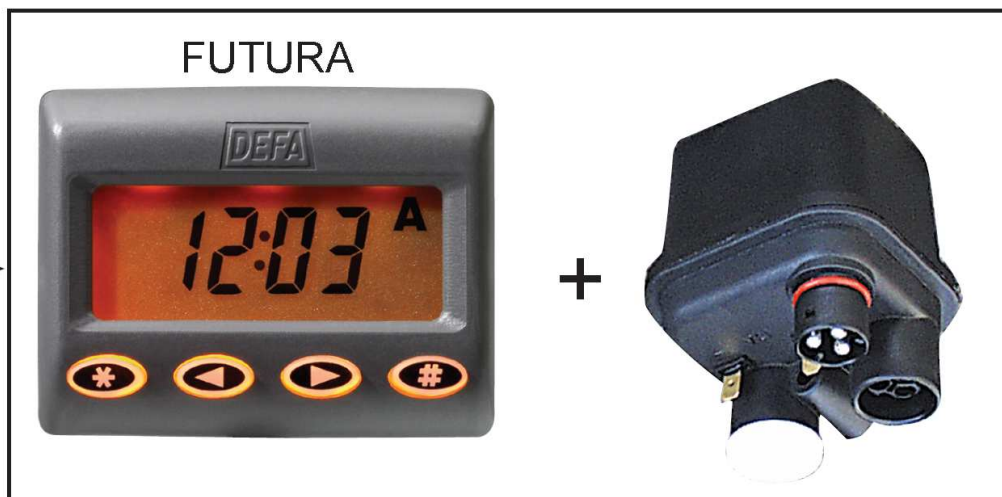
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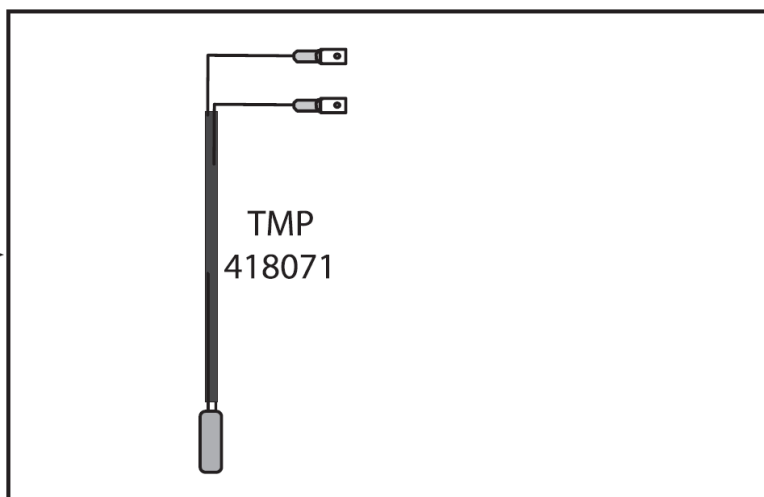
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## Installing control unit

The cable for the control unit is connected to the contact under the small cover. Find a suitable position for the control unit in the passenger compartment. Clean the surfaces carefully with a suitable grease solvent (for instance Acrysol). Do not use acetone, trichlorethylene, Breakclean or similar product as PVC and plastic may be damaged. Fasten the control unit by means of the enclosed double-sided tape. *Note that the two ends of the cover are different. It can only be opened from one end (I).* If the outside temperature sensor is enclosed, fit this in the front of the car, and place it so that hot parts do not influence it. For wiring, see the wiring diagram.

## Installing the relay box

The relay box should be fastened with enclosed car body screw or strips. For wiring, see the wiring diagram. Instal the relay box in the engine compartment in a position far away from moving or warm parts. NOTE: The box must be installed in such a way that the outlet side slopes downwards in case any water should accumulate. Outlets which are not in use should be blanked off, using the enclosed plugs. timer.



## Using the control unit

The control unit in the „Defa Warm Up“ ensures that the car is warm at the required time. The unit has 2 drive away times (Drive away time is the time the car will be used) functioning independently of each other. These times are 24 hours repetitive, suitable for car owners using the car at the same time every day. In addition to being an advanced control unit for the „Defa Warm Up“, the unit is equipped with a number of other functions: outside temperature, ice warning device, battery voltage/charging voltage. The display lighting on the unit is lit when the engine is running or when one of the buttons is pressed.


## Function button

For each hit on the button the unit displays (II):

- 24 hour clock.
- Drive-away time I - Factory programmed to 08:00
- Drive-away time II - Factory programmed to 16:00

- 
- Battery voltage\*
  - Outside temperature\* in °C



\*If an outside sensor is not fitted the control unit will not indicate battery voltage and outside temperature, but alternative between 24hour clock – drive away time (II) at each press on .

## Arrow buttons

Used for setting the time and programming the drive-away times. Pressing both arrow buttons at the same time puts the control unit into programming mode and the display digits blink. The left arrow button adjusts the time backward and the right arrow button forward.

## Heat button

The heat button is used to choose between several pre-programmed heating programs (III).

**A** Automatic switch-on controlled by the outside temperature. When an outside sensor has not been fitted, the sensor incorporated in the unit will take over control.



ON time 1 hour before selected drive-away time



ON time 2 hours before selected drive-away time



ON time 3 hours before selected drive-away time

**On** DEFA Warm Up **ON**  
DEFA Warm Up **OFF** (no symbol in the display)





## Temperature-controlled automatic switch-on

When Automatic switch-on is selected, the sensor will take the outside temperature and decide the correct switch-on time in relation to the programmed drive away time. Lower temperatures require longer warming up periods to reach the required engine and interior temperatures. The graph (IV) shows the on-time in minutes at different outside temperatures. Note that the on-time is always related to programmed drive away time.

If the vehicle is not started at the programmed drive away time, the on-time is automatically extended by 2 hours (Oversleep function). When the car is started the remaining on-time and the oversleep function are automatically erased.



## Programming the time/drive away time and calibration of outside temperature (V).

1. Press  until the display shows the wanted function.
2. Press both arrow buttons   simultaneously. Selected function starts to blink .
3. Set the time / away time or calibrate the temperature by using the arrow buttons. The temperature might be adjusted until +/- 3°C. To achieve precise calibration of the outside temperature, calibration should take place at 0°C.

To save the chosen function – wait for 5 seconds until the blinking stops. If you only want one drive away time, program I and II so that they coincide. When the control unit switches on the “Defa Warm Up”, the “On” symbol blinks on the display.

### 0-condition warning. (Optional temp sencor 418071)

The control unit is equipped with a 0-condition warning, which will warn you when the vehicle enters an area where slippery conditions are likely. An outside sensor must be fitted for this function to work. If the vehicle enters an area where the temperature sinks below +4°C or raises past – 4°C, the light on the display and the buttons blink rapidly for approximately 6 seconds. At the same time the temperature is shown for 15 seconds. The control unit can not be otherwise used when this ice-warning is active.

### Starting the engine

When the engine is started any remaining on-time is erased and the “On” symbol in the display is extinguished. The control unit carries out an information sequence that displays: Battery voltage before start, charging voltage after start and outside temperature (approximately 2 seconds for each function). At the end the control unit returns to the function selected before the information sequence.

### Switching off the engine


When the engine is switched off, the control unit carries out an information sequence showing drive away time I and drive away time II before returning to the function selected before the information sequence.

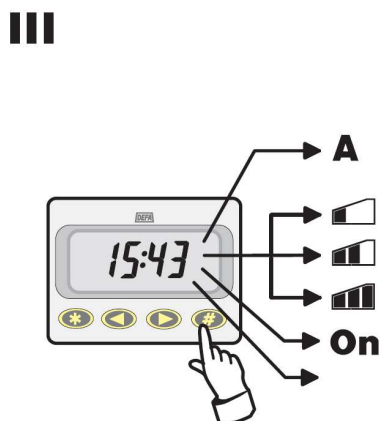
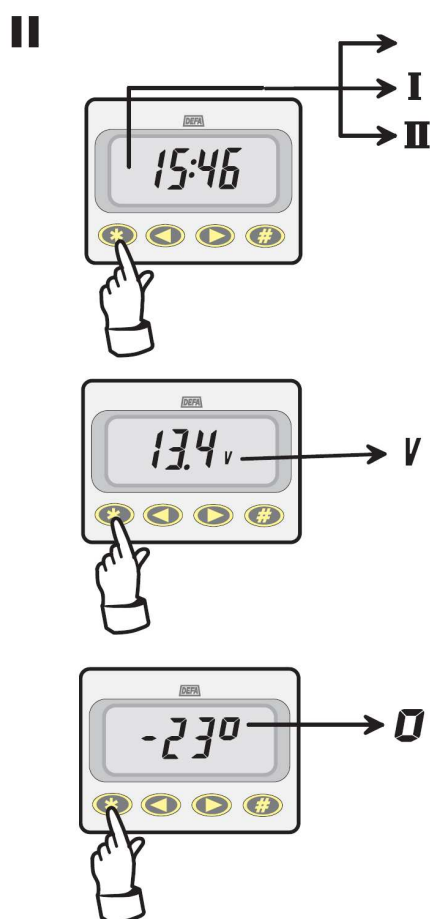
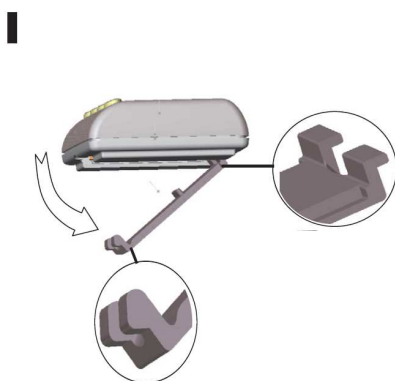
### Display illumination

The illumination of the control unit display will always be turned on when one of the buttons is pressed. The display will be



illuminated for approximately 1 minute after the last button is pressed. Depending on the usefulness of the information displayed by the control unit, the illumination can be turned ON or OFF during driving. Illuminated display during driving:

Press  for up to 3 seconds. The display light will blink to confirm that the light will come on.



## V



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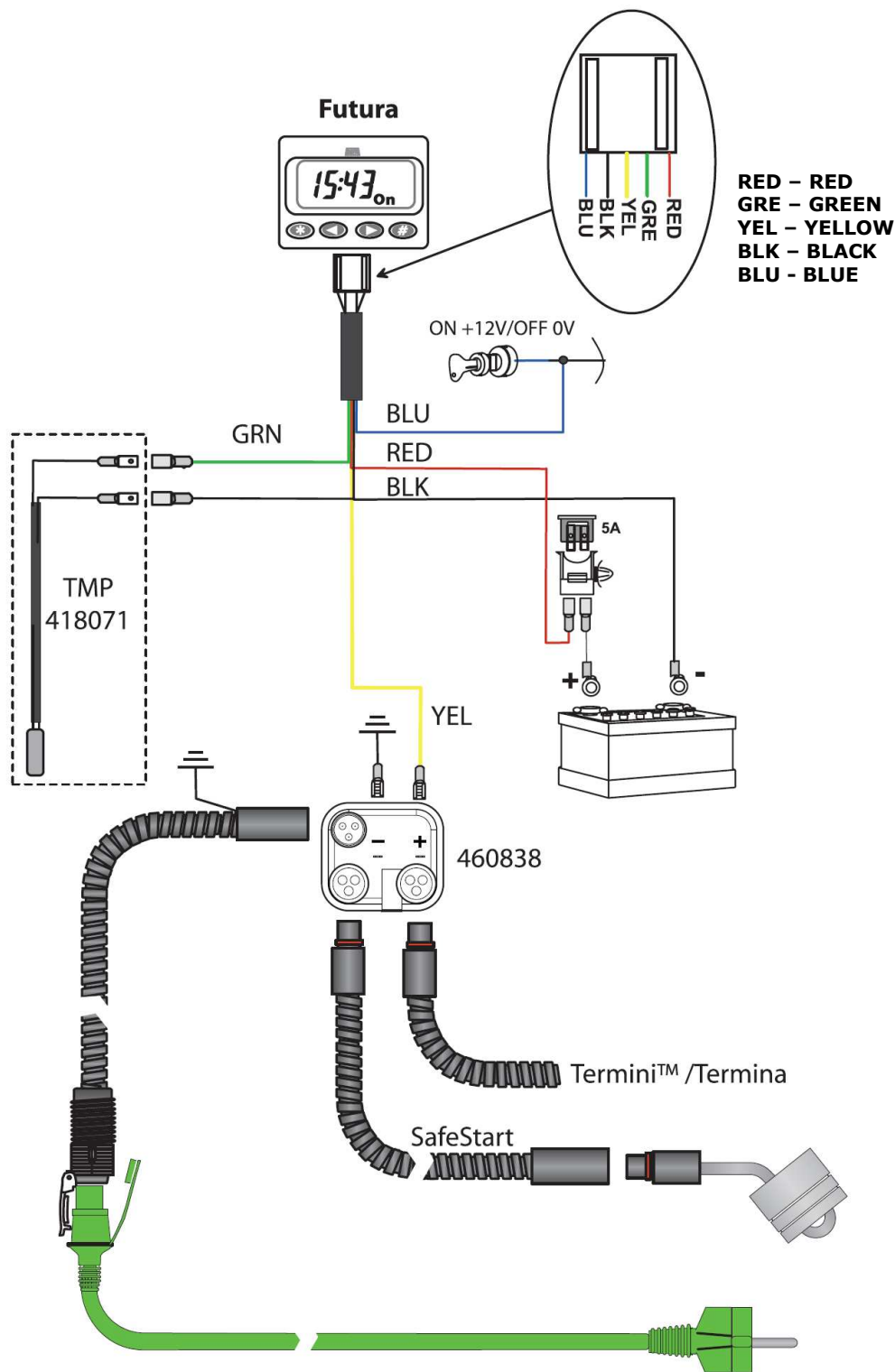
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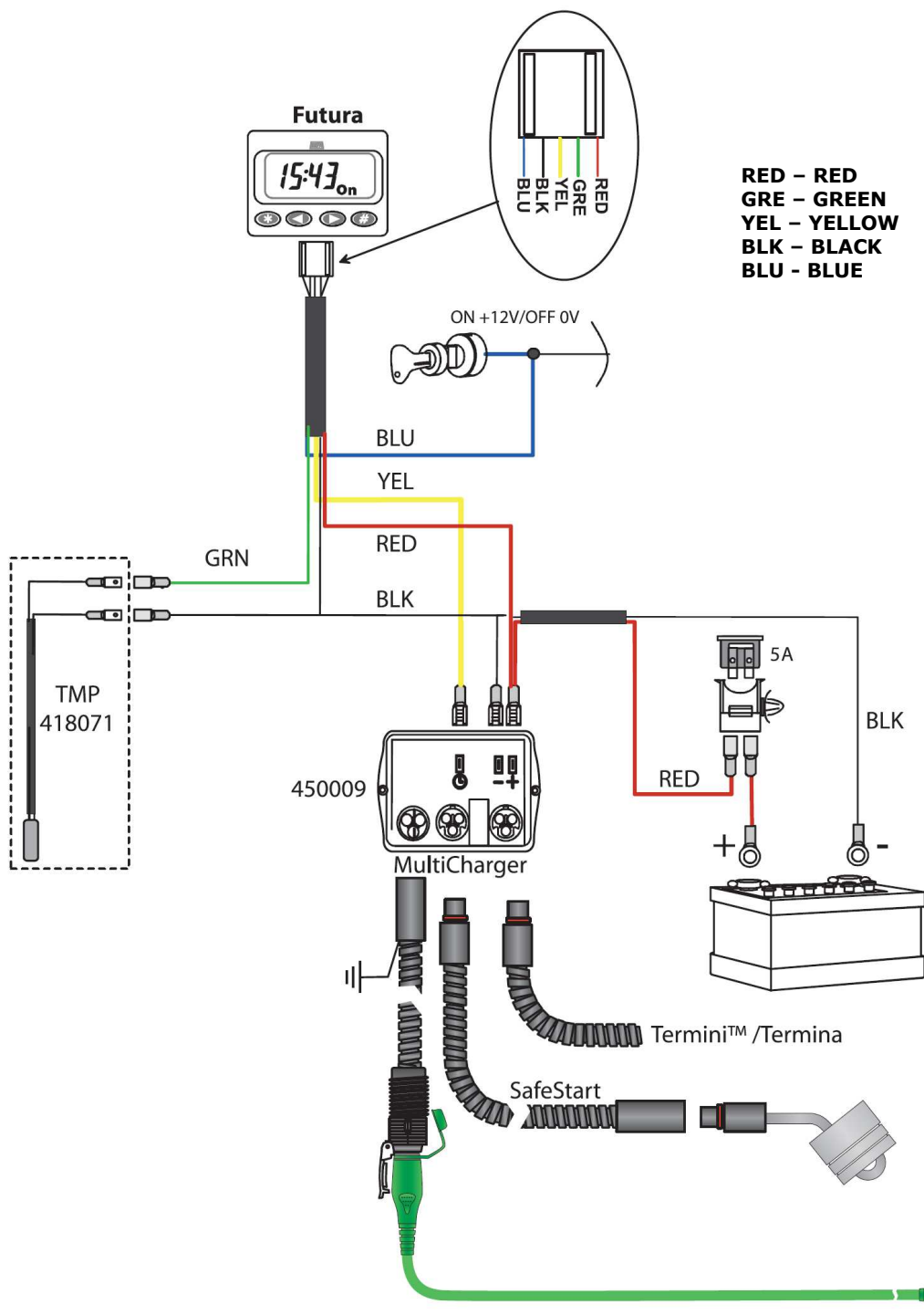
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## FUTURA + Reley 460838

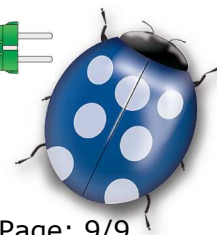




## FUTURA + MultiCharger 1203



Application:



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