



# HYDRONIC D5W SC WIRING DIAGRAMS

ELECTRICAL WIRING

Eberspächer

EN

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The troubleshooting and repair instructions are valid for the following engine-independent water heaters:

## Heaters for petrol

B 4 W SC – 12 volt

B 5 W SC – 12 volt

Order No.

20 1821 01 00 00

20 1820 01 00 00

## Heaters for diesel

D 4 W SC – 12 volt

D 5 W SC – 12 volt

Order No.

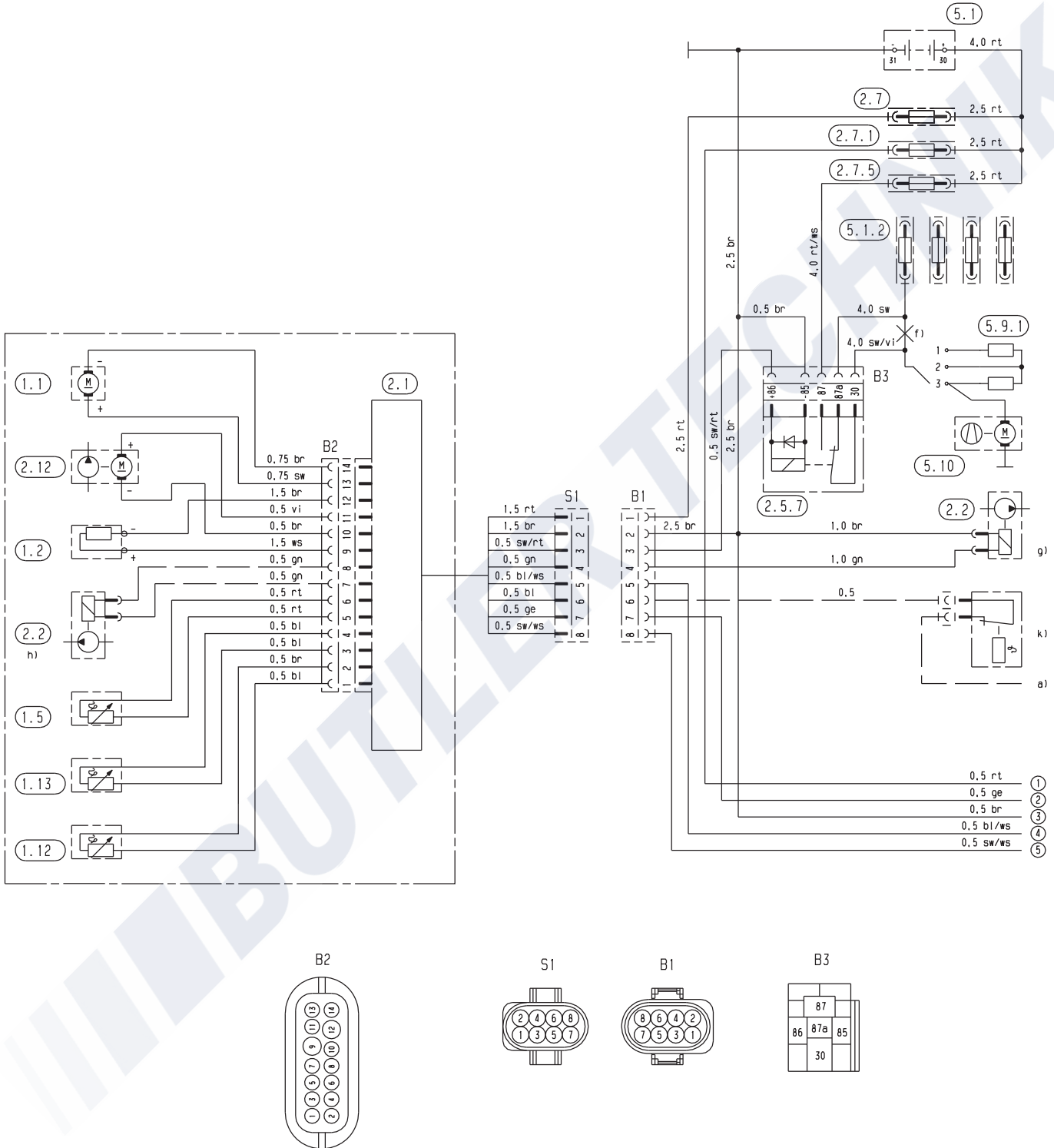
25 2221 01 00 00

25 2219 01 00 00



# 6 Wiring diagram

Wiring diagram  
 HYDRONIC B 4 W SC / B 5 W SC  
 HYDRONIC D 4 W SC / D 5 W SC





## 6 Wiring diagram

### Parts list

- 1.1 Heater motor
- 1.2 Glow plug
- 1.5 Overheating sensor
  
- 1.12 Flame sensor
- 1.13 Temperature sensor
  
- 2.1 Controller
- 2.2 Fuel dosing pump
- 2.5.7 Relay, vehicle fan
- 2.7 Main fuse 20 A
- 2.7.1 Fuse, actuation 5 A
- 2.7.5 Fuse, vehicle fan 25 A
- 2.12 Water pump
  
- 5.1 Battery
- 5.1.2 Fuse block in the vehicle
- 5.9.1 Switch, vehicle fan
- 5.10 Vehicle fan

- a) connect to D+ for pre-heating option
- f) split lead
- g) petrol only
- h) diesel only
- k) switch  
(pre-heating, e.g. outside temperature < 5°C  
or summer / winter changeover switch)

Length "plus" + length "minus":  
< 5 m: cross section 4 mm<sup>2</sup>  
> 5 m < 8 m: cross section 6 mm<sup>2</sup>



### Caution

Unused lead ends can cause a short circuit and damage *HYDRONIC*.

→ Insulate unused lead ends.

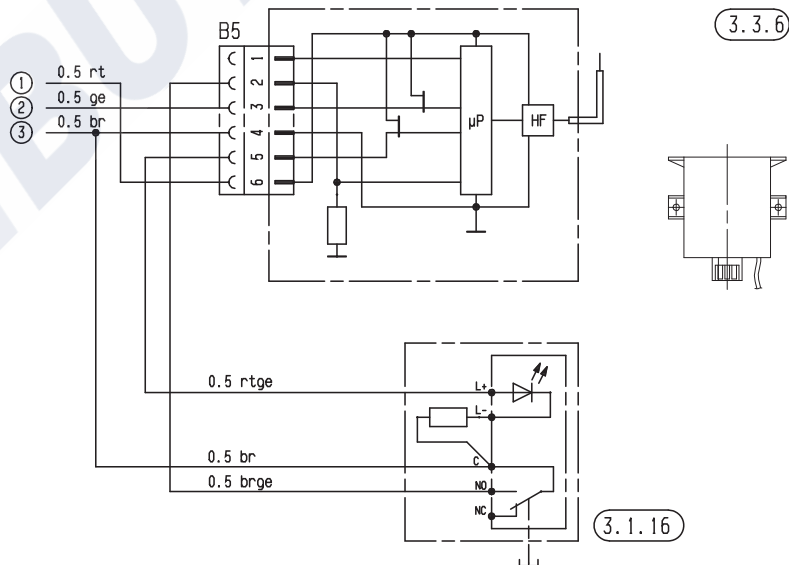
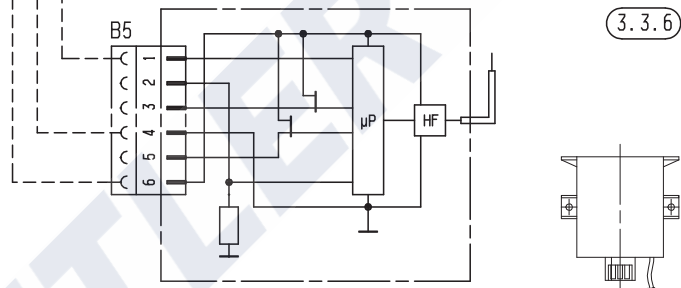
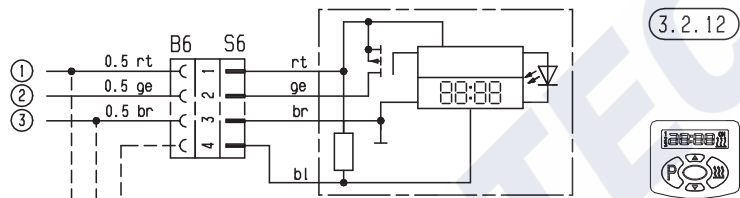
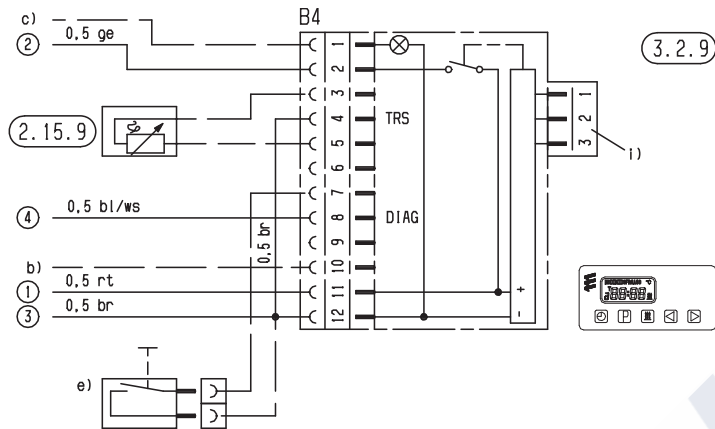
Connectors and socket housings are shown from the lead inlet side.

### Cable colours

- rt = red
- bl = blue
- ws = white
- sw = black
- gn = green
- gr = grey
- ge = yellow
- vi = violet
- br = brown
- li = lilac

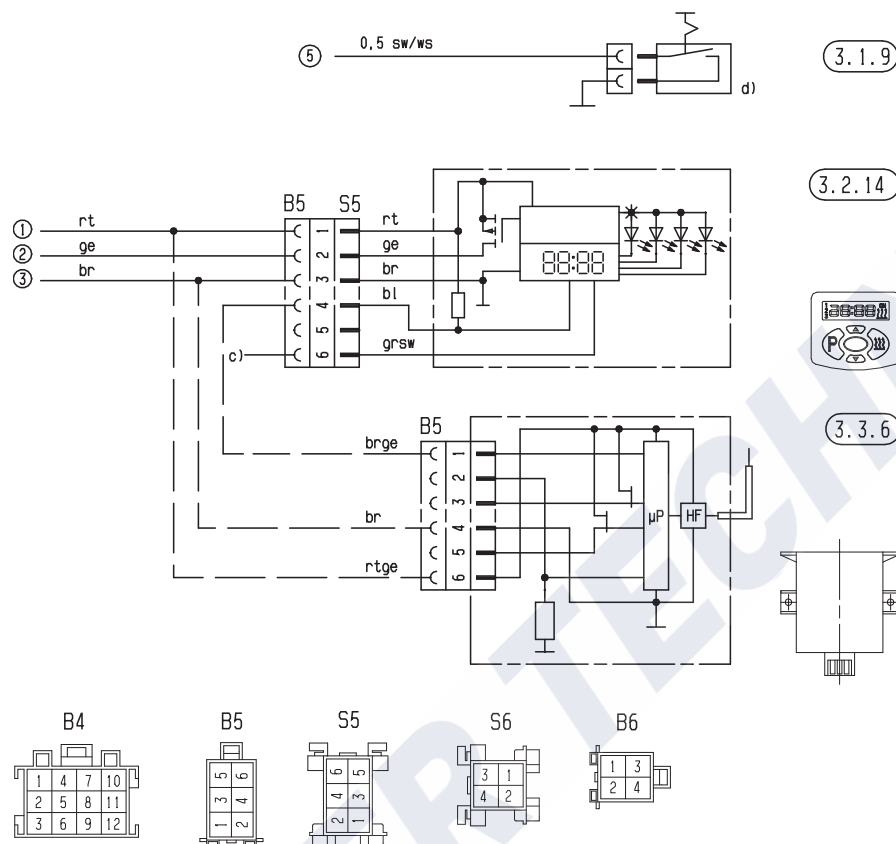
# 6 Wiring diagram

## Wiring diagram Controls – part 1





# 6 Wiring diagram



25 1920 00 97 01 C

### Parts list

- 2.15.9 Sensor, outside temperature
- 3.1.9 Changeover switch "heating / venting"
- 3.1.16 Button, radio remote control
- 3.2.9 Timer, module clock
- 3.2.12 Timer, mini 12 / 24 volt
- 3.2.14 Timer, mini lighting blue – 12 volt only
- 3.3.6 Radio remote control (receiver) TP41i
- b) Connect to terminal +15  
if heating mode required for > 2 hrs  
(with ignition switched on)
- c) lighting terminal 58
- d) pre-venting with vehicle fan (option)
- e) external button ON / OFF (option)
- i) Connection radio module receiver TP4i

Length "plus" + length "minus":  
 < 5 m: cross section 4 mm<sup>2</sup>  
 > 5 m < 8 m: cross section 6 mm<sup>2</sup>



### Caution

Unused lead ends can cause a short circuit and damage *HYDRONIC*.

➔ Insulate unused lead ends.

Connectors and socket housings are shown from the lead inlet side.

### Please note

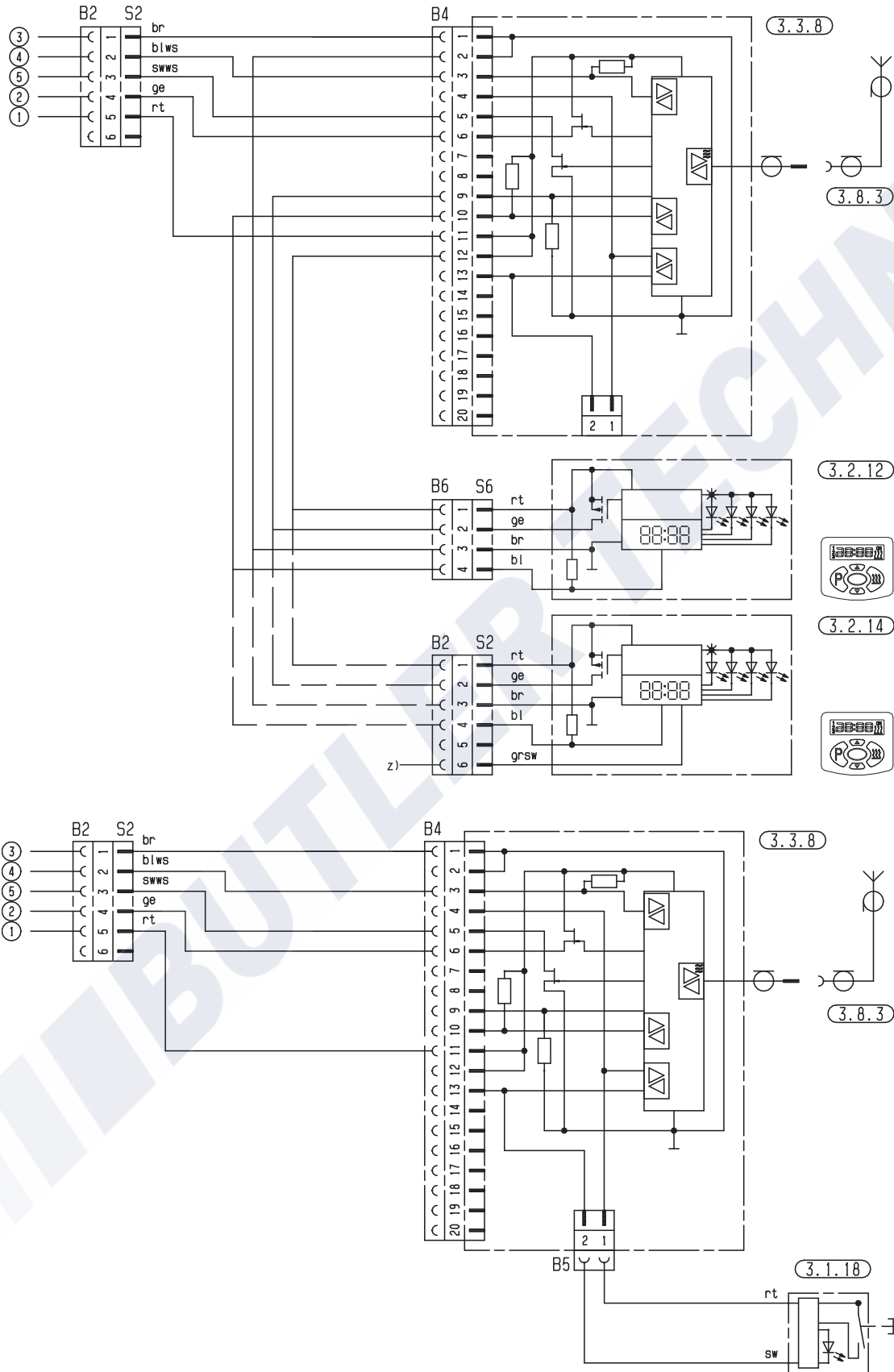
In vehicles with automatic heating or air-conditioning, please follow the workshop instructions for the vehicle concerned regarding fan control. If no workshop instructions have been issued, please follow the instructions issued by the vehicle manufacturer regarding the connection or interface for fan control.

### Cable colours

- |            |             |
|------------|-------------|
| rt = red   | gr = grey   |
| bl = blue  | ge = yellow |
| ws = white | vi = violet |
| sw = black | br = brown  |
| gn = green | li = lilac  |

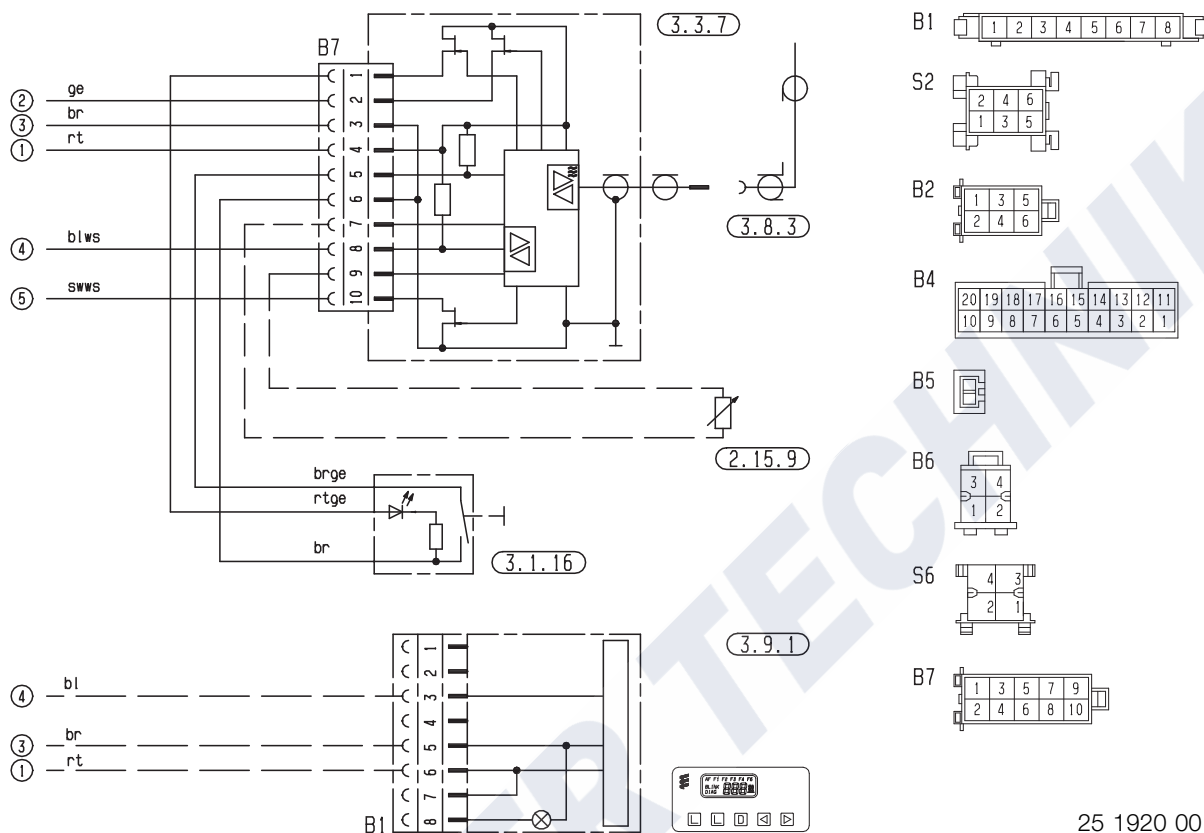
# 6 Wiring diagram

## Wiring diagram Controls – part 2





## 6 Wiring diagram



25 1920 00 97 02 A

### Parts list

- 2.15.9 Sensor, outside temperature
- 3.1.16 Button, radio remote control
- 3.1.18 Button, *CALLTRONIC*
- 3.2.12 Timer, mini 12 V / 24 V
- 3.2.14 Timer, mini lighting blue – 12 volt only
- 3.3.7 Radio remote control TP5
- 3.3.8 Remote control, *CALLTRONIC*
- 3.8.3 Antenna
- 3.9.1 Diagnosis instrument JE diagnosis
- z) Terminal 58 (lighting)

Length "plus" + length "minus":  
 < 5m: cross section 4 mm<sup>2</sup>  
 > 5 m < 8 m: cross section 6 mm<sup>2</sup>



### Caution

Unused lead ends can cause a short circuit and damage *HYDRONIC*.

➔ Insulate unused lead ends.

Connectors and socket housings are shown from the lead inlet side.

### Please note

In vehicles with automatic heating or air-conditioning, please follow the workshop instructions for the vehicle concerned regarding fan control. If no workshop instructions have been issued, please follow the instructions issued by the vehicle manufacturer regarding the connection or interface for fan control.

### Cable colours

rt = red	gr = grey
bl = blue	ge = yellow
ws = white	vi = violet
sw = black	br = brown
gn = green	li = lilac

## 6 Wiring diagram

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### Parts list for control units circuit diagrams EasyStart

- 2.15.1 Temperature sensor (room temperature)  
(included in the EasyStart R+ scope of supply,  
optional for EasyStart T and EasyStart R)
- 2.15.9 External temperature sensor (optional)
  
- 3.1.7 "ON / OFF" pushbutton (option)
- 3.1.9 "Heat / ventilate" switch (option)
- 3.1.16 Radio remote control button
  
- 3.2.15 EasyStart T timer
  
- 3.3.9 EasyStart R radio remote control  
(stationary unit)
- 3.3.10 EasyStart R+ radio remote control  
(stationary unit)
  
- 3.6.1 Lead harness
  
- 3.8.3 Antenna
  
  
- c) Terminal 58 (lighting)
- d) Parking ventilation with vehicle blower (optional)
- e) EasyStart T timer connection
- g) External "ON / OFF" button (optional)

Connectors and bush housings are shown from the cable inlet side.

### Cable colours

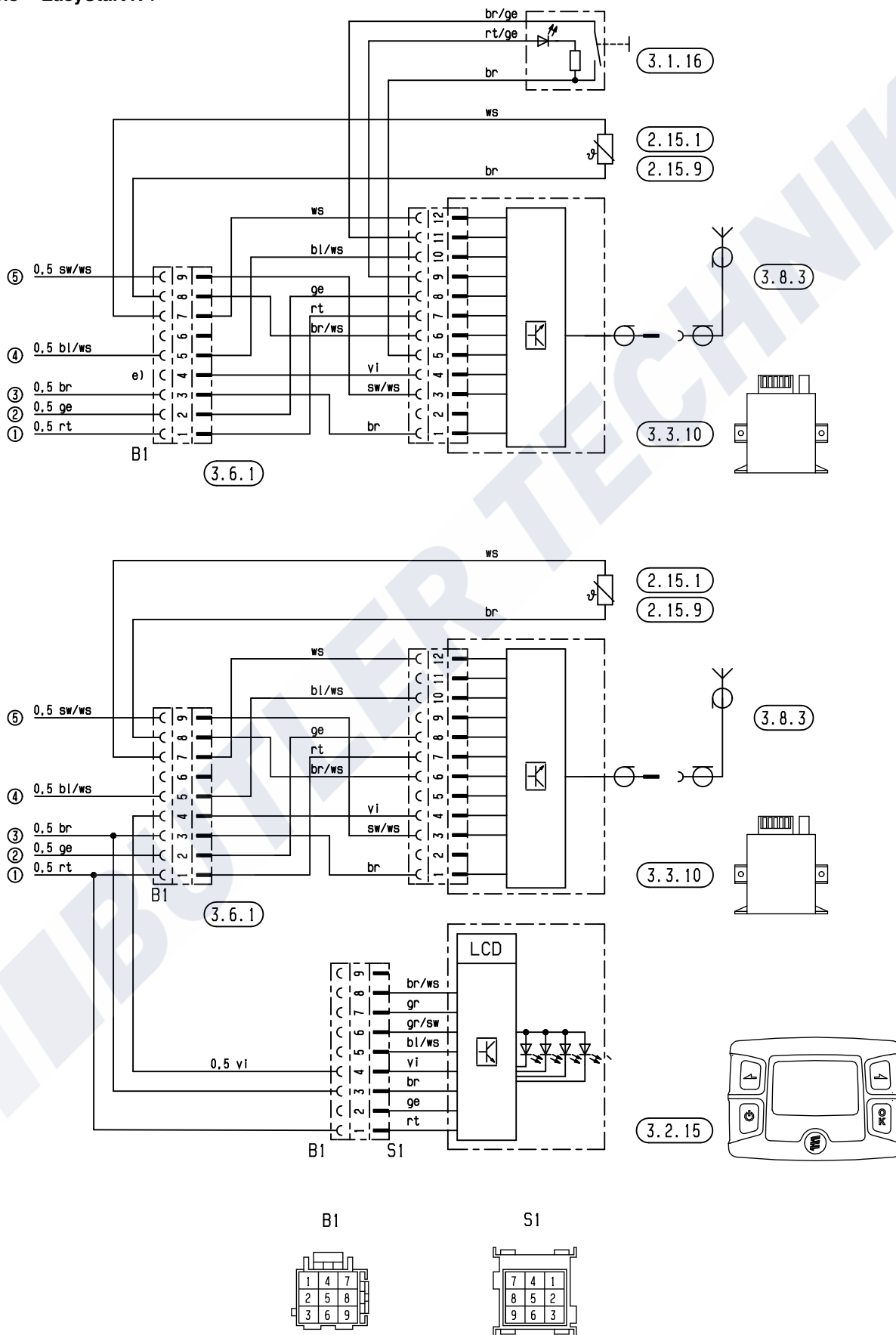
- rt = red
- bl = blue
- ws = white
- sw = black
- gn = green
- gr = grey
- ge = yellow
- vi = violet
- br = brown
- li = purple





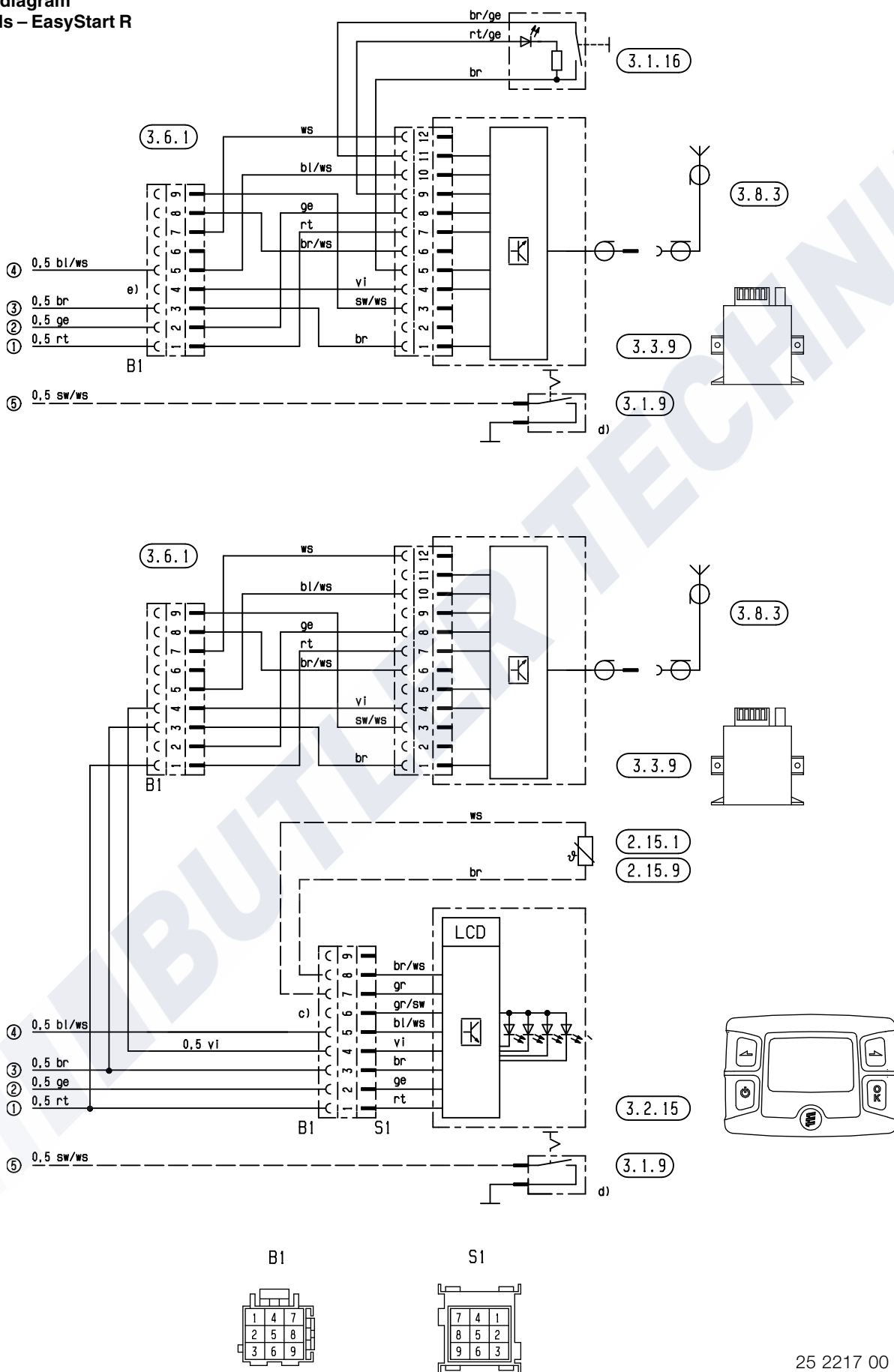
# 6 Wiring diagram

## Wiring diagram Controls – EasyStart R +



# 6 Wiring diagram

## Wiring diagram Controls – EasyStart R





# 6 Wiring diagram

## Wiring diagram Controls – EasyStart T

