

# Heater / control element combinations

E-guide

Click on the start button on the right 

**START**



**Read me first.**

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## **Goal**

The goal of this E-guide is to help you find the connections between heater and control element. The most common combinations are set out.

Additional it shows the appropriate wiring diagram and pinout.

## **How to use this E-guide**

There are several ways to navigate through this E-guide. Just like any other PDF document you can browse through the pages.

See next page  for information on how to navigate through this document.

**Read me first.**

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## Explanation of the keys

 homepage

 Read me first

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## Explanation of the colours used in the wiring diagrams

WS = Weiß / White

RT = Rot / Red

SW = Schwarz / Black


BL = Blau / Blue

BR = Braun / Brown

GR = Grau / Grey

GE = Gelb / Yellow

GN = Grün / Green

See next page  for information on “normal” and “expert” mode

**Read me first.**

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In this E-guide you can find the connections between heater and control element.

In normal mode you will be guided step by step using the **blue** coloured tile and the top page navigation.

In the expert mode using the **red** coloured tile you go directly from overview to the appropriate wiring diagram.

See next page  for extended information.

**Read me first.**

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**NOTE:** Using multiple controls on one heater can only take place in the same mode. The exclusion of several control elements in different modes (W-bus / analog) is not permitted.

Click on  to start this E-guide.




















Select the mode you want to use.

Normal  
mode

Expert  
mode



Select a combination by clicking on  (Normal mode)

	Air Top 2000 ST	Air Top 2000 STC (Analog)	Air Top 2000 STC (W-bus)	Air Top Evo 3900 / 5500	Air Top Evo 40 / 55 (Analog)	Air Top Evo 40 / 55 (W-bus)	Thermo 90 ST	Thermo Top EVO (W-Bus)	Thermo Top Z / E / C (Analog)	Thermo Top Pro 120 / 150
SmartControl Heavy Duty (HD)										
MultiControl Heavy Duty (HD)										
MultiControl MAR RV AirTop										
Rotary switch										
ThermoCall TC4 Advanced										
MultiControl MAR RV ThermoTop										
UniControl										
Main Switch										



Select a combination by clicking on **✘** (Expert mode)

	Air Top 2000 ST	Air Top 2000 STC (Analog)	Air Top 2000 STC (W-bus)	Air Top Evo 3900 / 5500	Air Top Evo 40 / 55 (Analog)	Air Top Evo 40 / 55 (W-bus)	Thermo 90 ST	Thermo Top EVO (W-Bus)	Thermo Top Z / E / C (Analog)	Thermo Top Pro 120 / 150
SmartControl Heavy Duty (HD)	✘			✘		✘	✘			
MultiControl Heavy Duty (HD)	✘			✘		✘	✘			
MultiControl MAR RV AirTop				✘		✘				
Rotary switch		✘			✘					
ThermoCall TC4 Advanced			✘					✘	✘	
MultiControl MAR RV ThermoTop							✘			
UniControl										✘
Main Switch							✘			✘

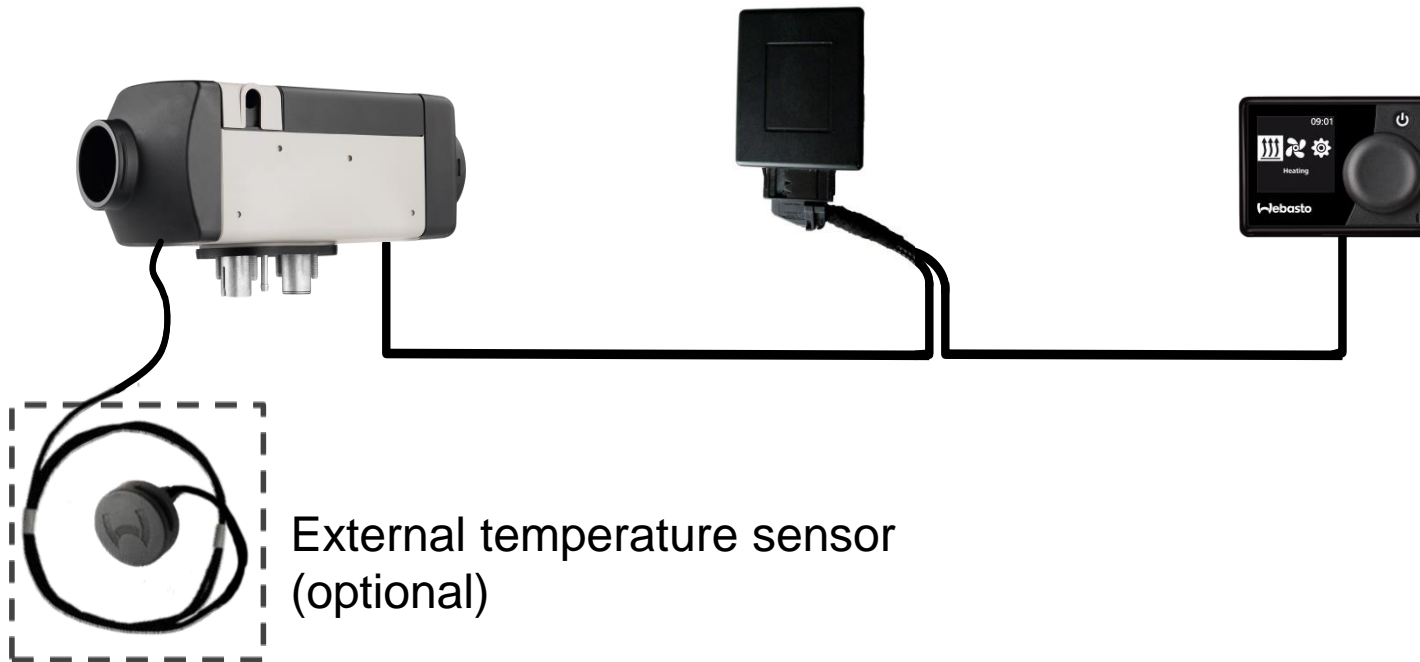


AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty

Air Top 2000 ST Analog

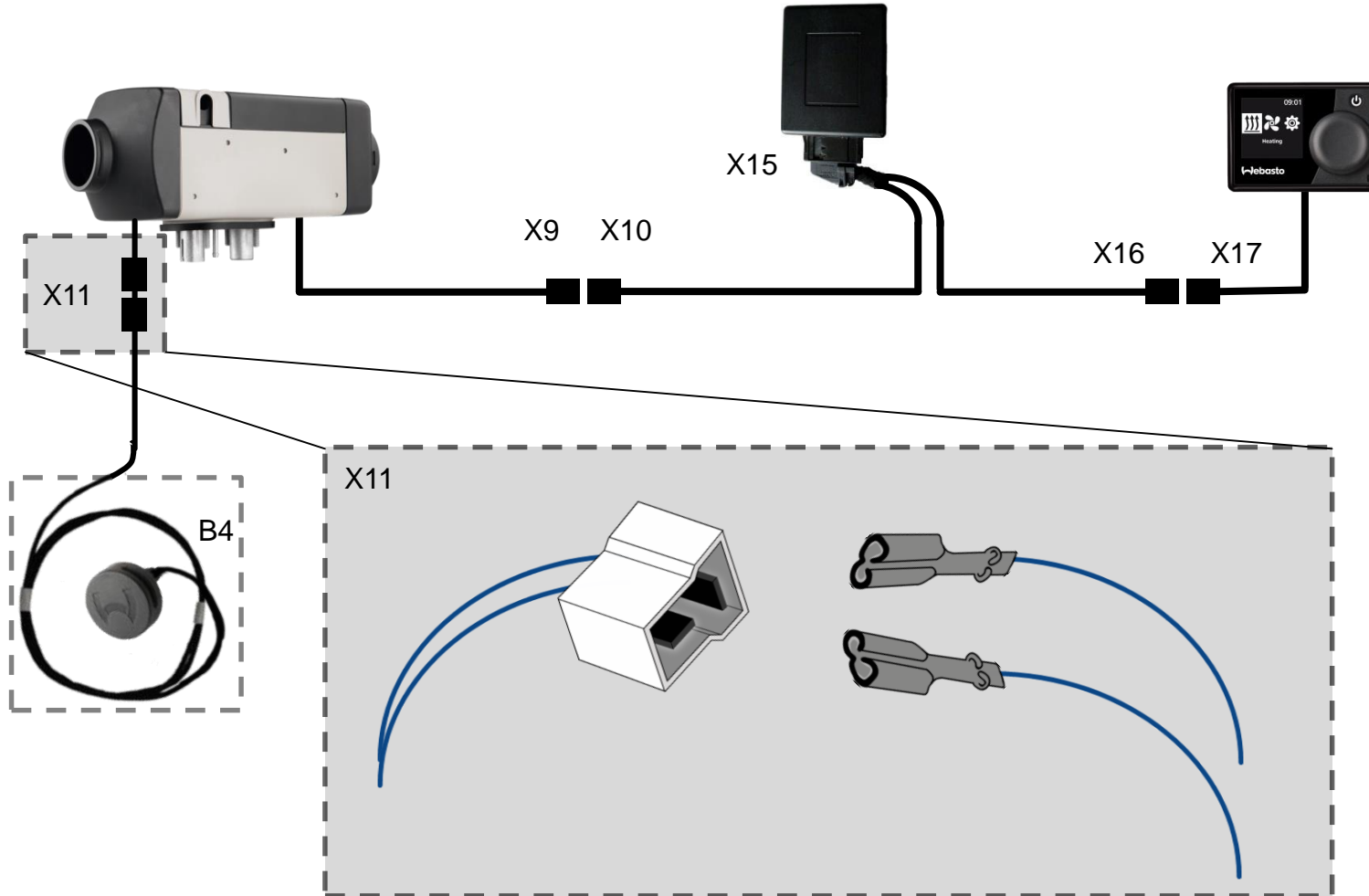
Unibox

SmartControl HD



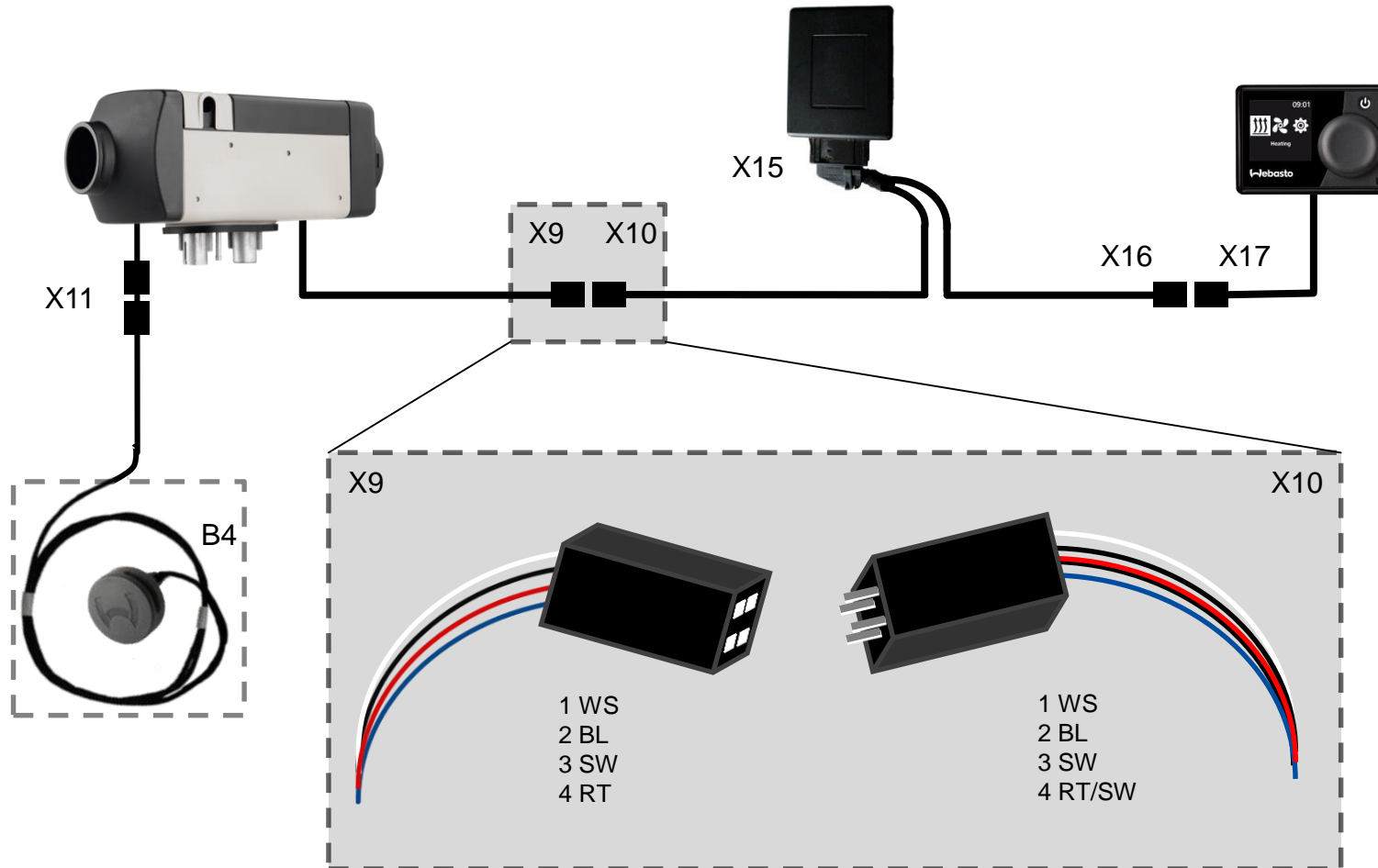
Click [here](#) for the pinout

AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty



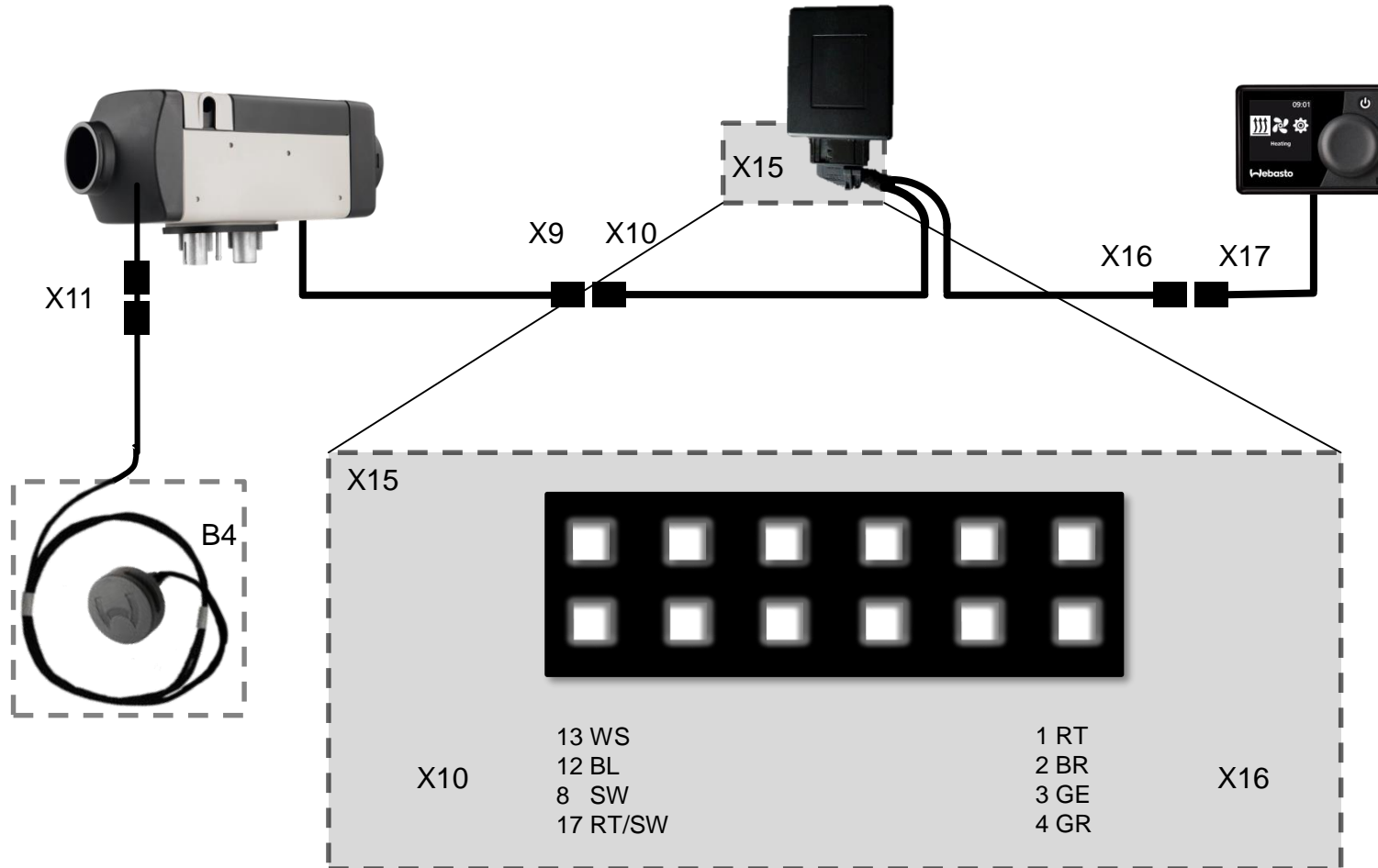
Click [here](#) for the X9-X10 pinout

# AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty



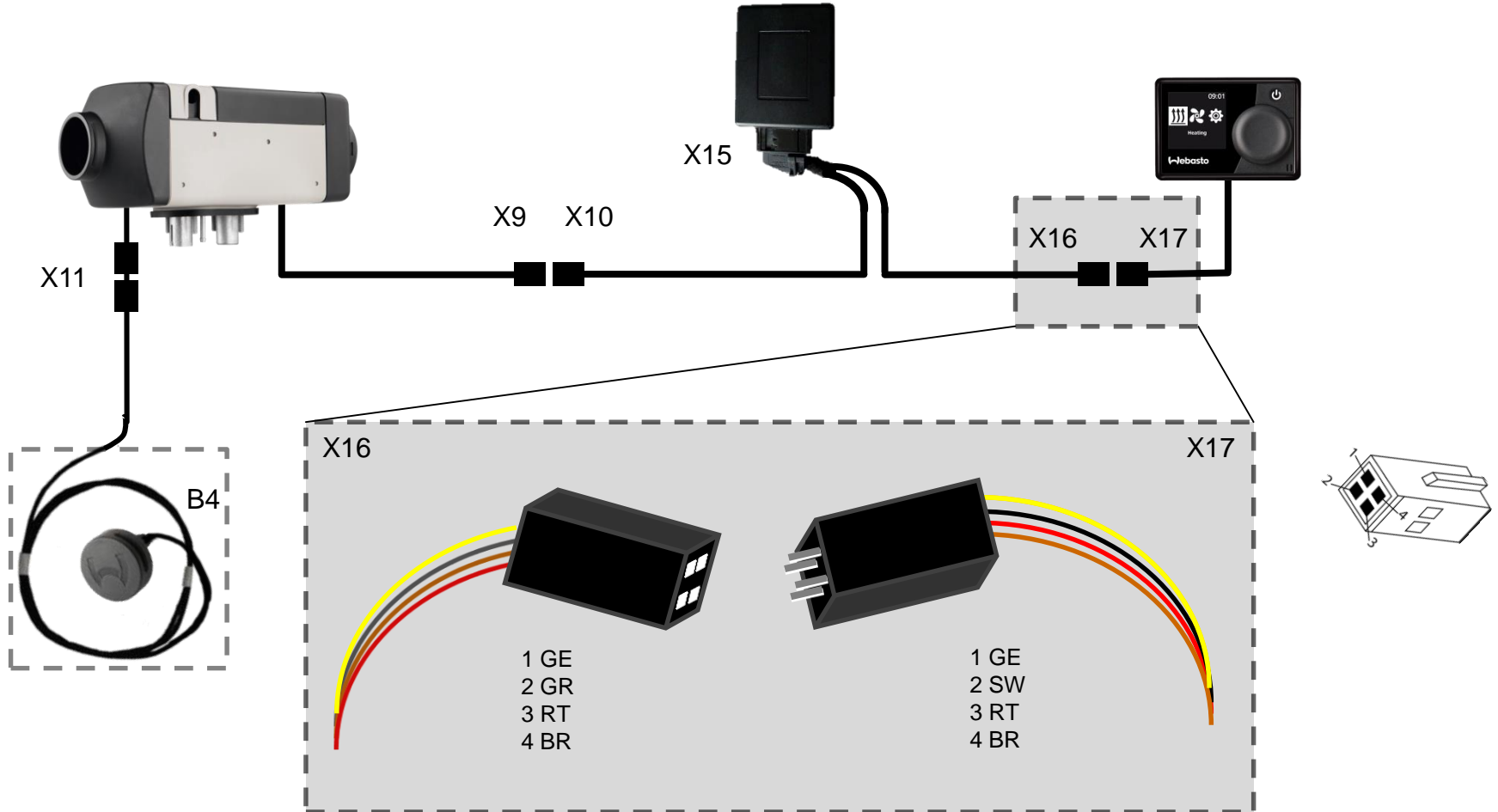
Click [here](#) for the X15 pinout

AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty



Click [here](#) for the X16-X17 pinout

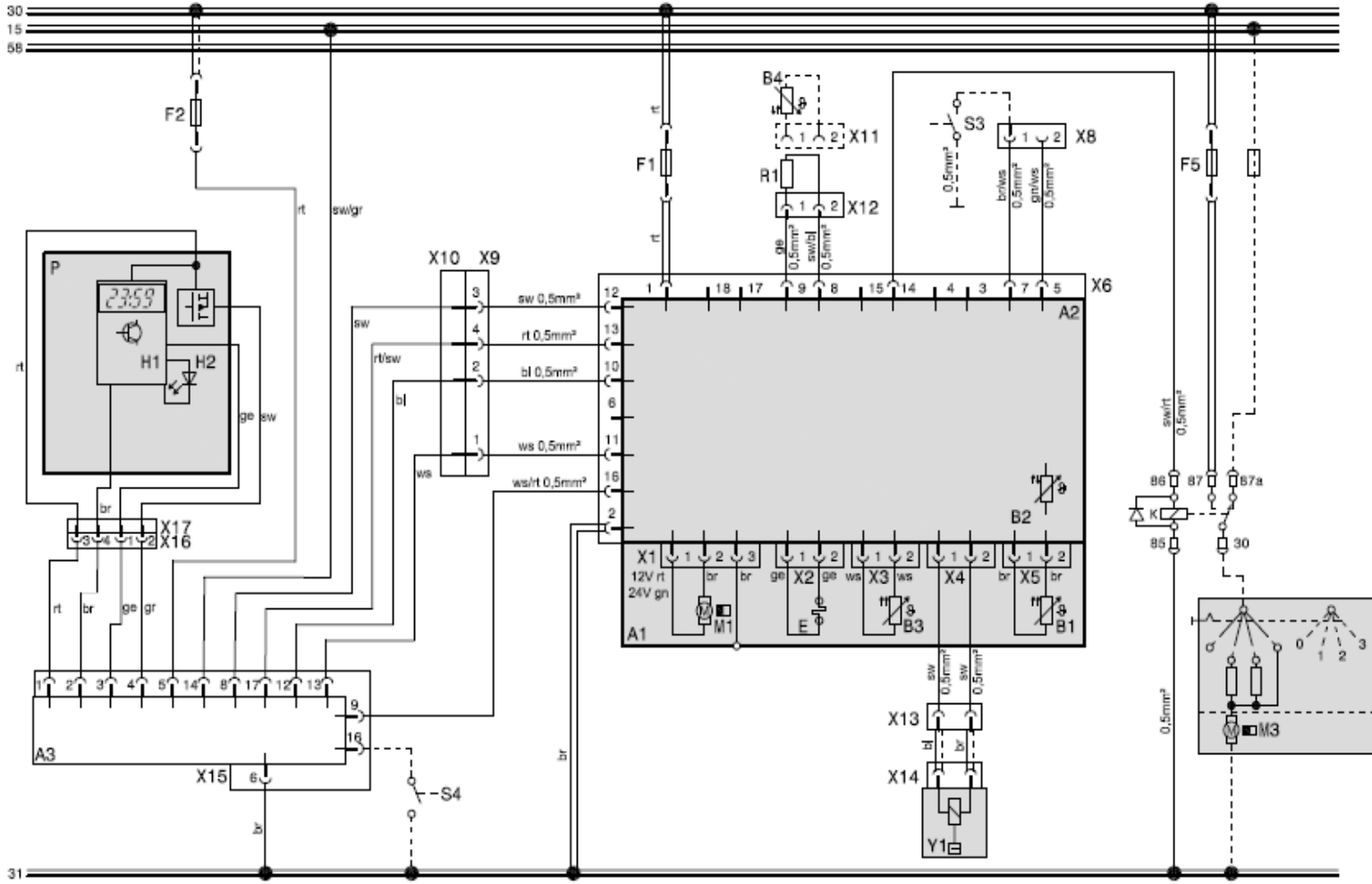
# AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty



Click [here](#) for the wiring diagram



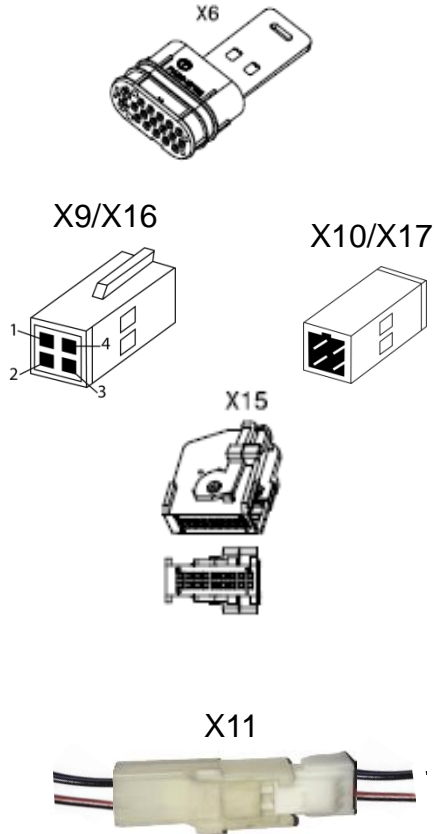
AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty



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AT 2000 ST Analog ↔ Unibox ↔ SmartControl Heavy Duty



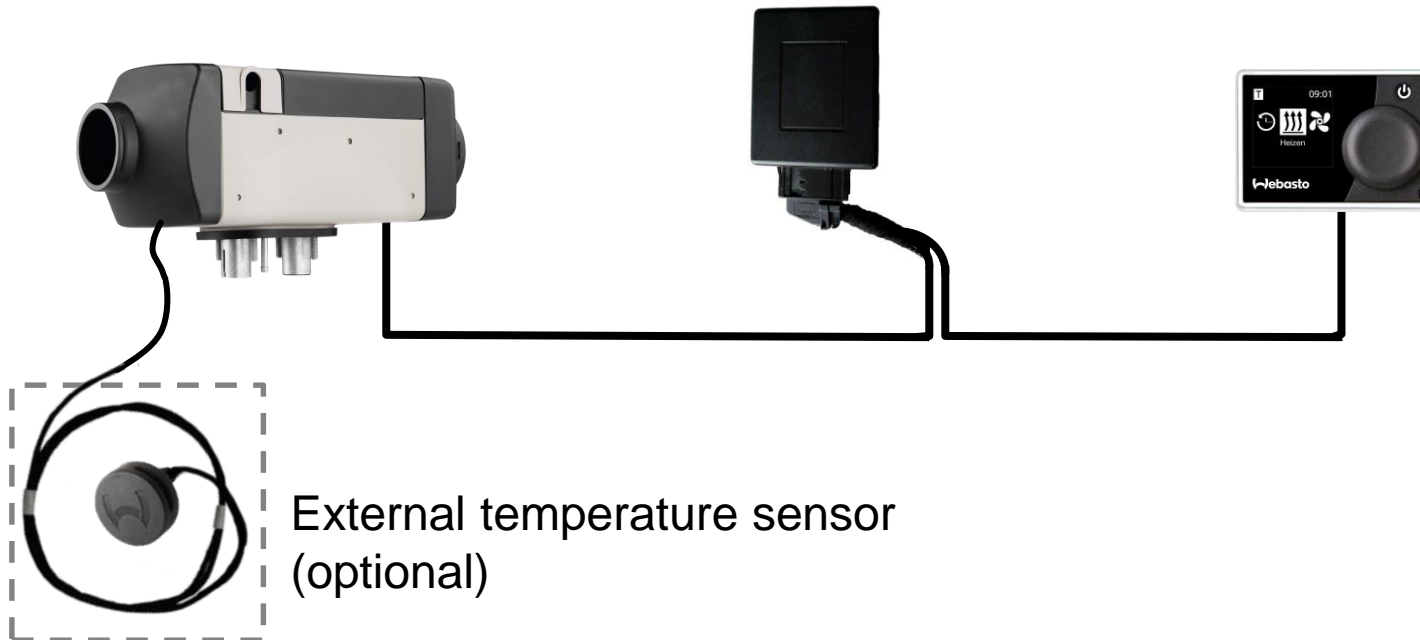
A2	Heater Control Unit
A3	Unibox
P	SmartControl
X6	Connector Control Unit heater
X9	Connector
X10	Connector
X11	Connector External temperature sensor (version < 2017)
X15	Connector Unibox
X16	Connector
X17	Connector SmartControl

AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty

Air Top 2000 ST Analog

Unibox

MultiControl HD

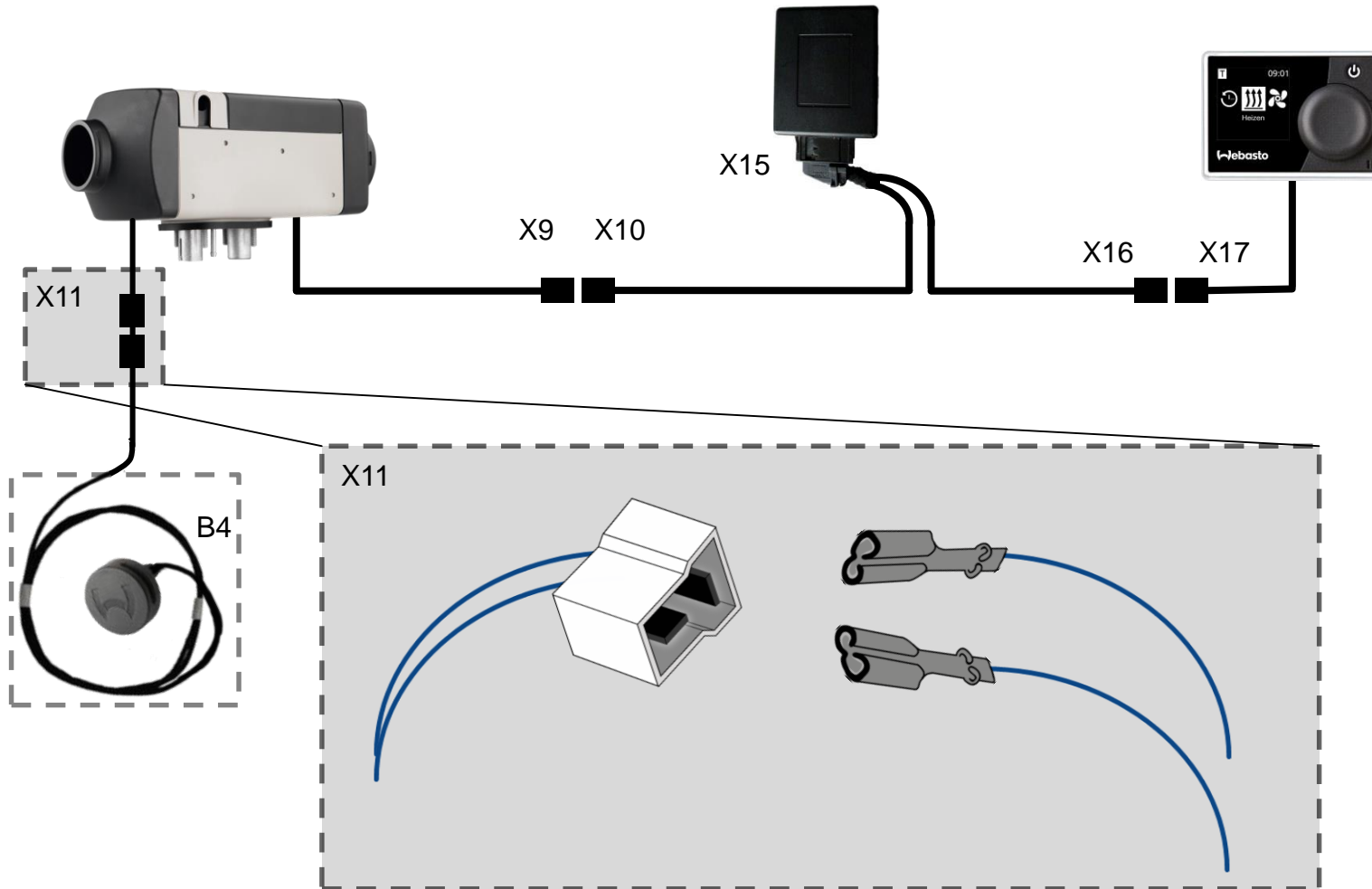


External temperature sensor (optional)

Click [here](#) for the pinout

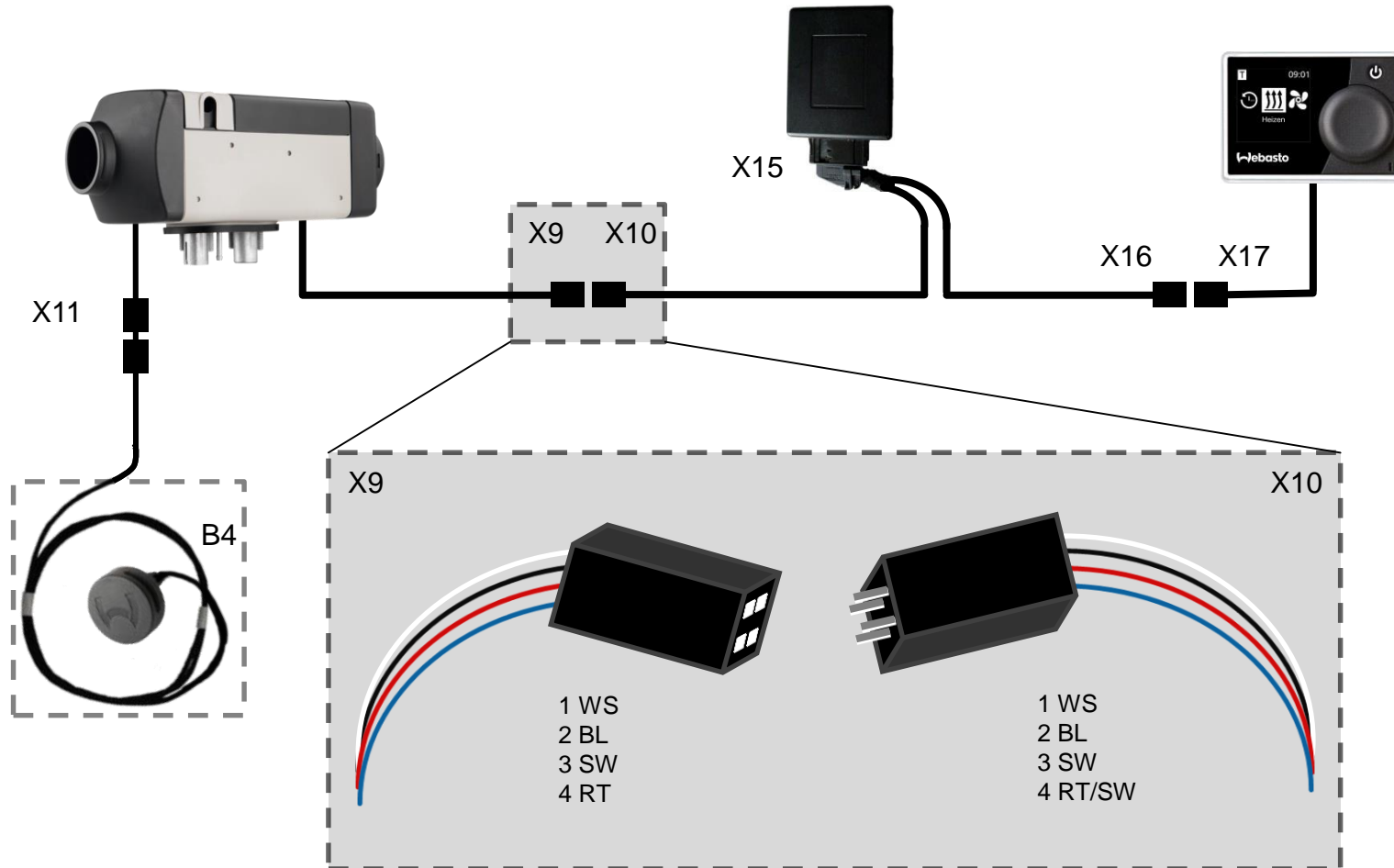


# AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty



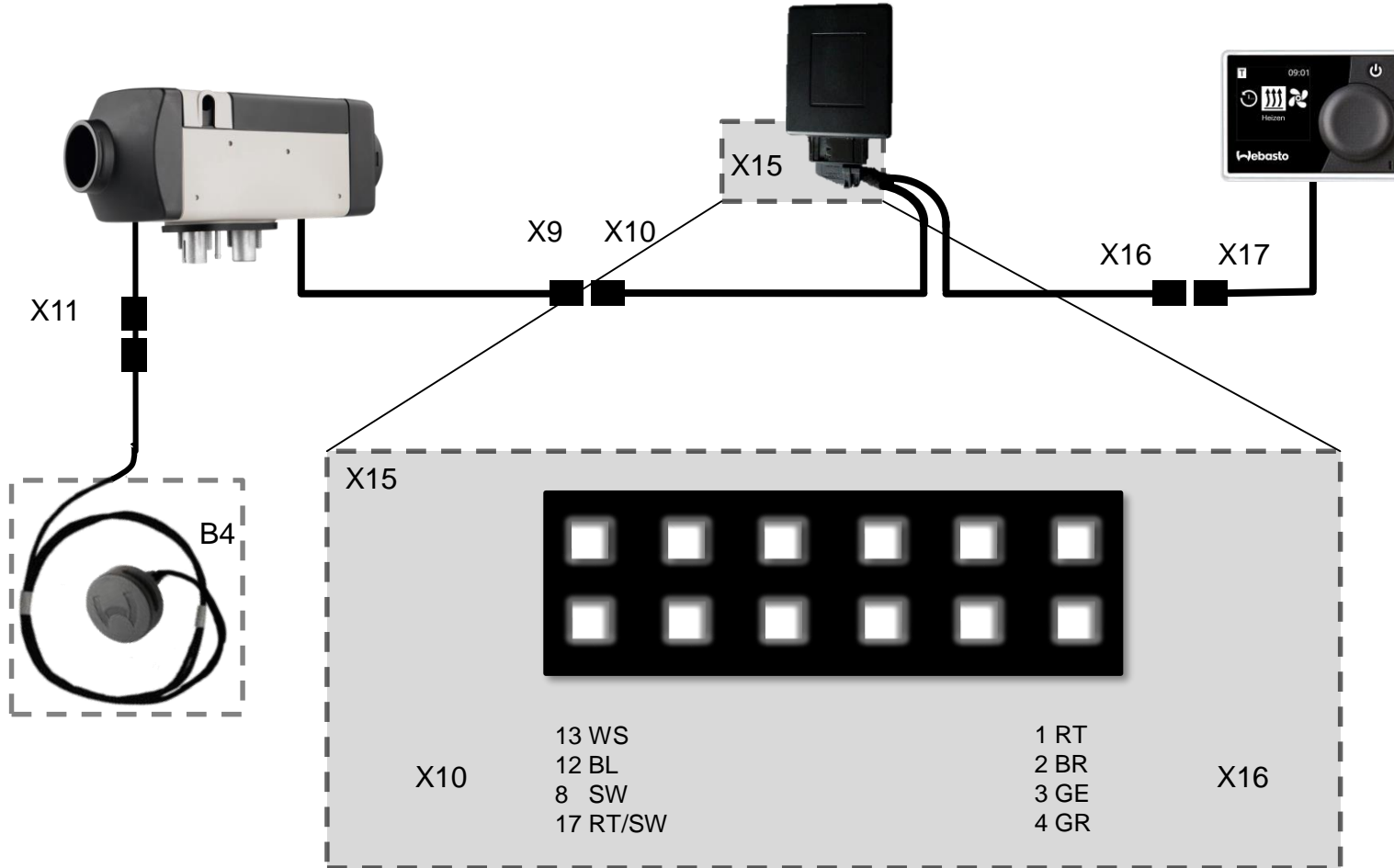
Click [here](#) for the X9-X10 pinout

AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty



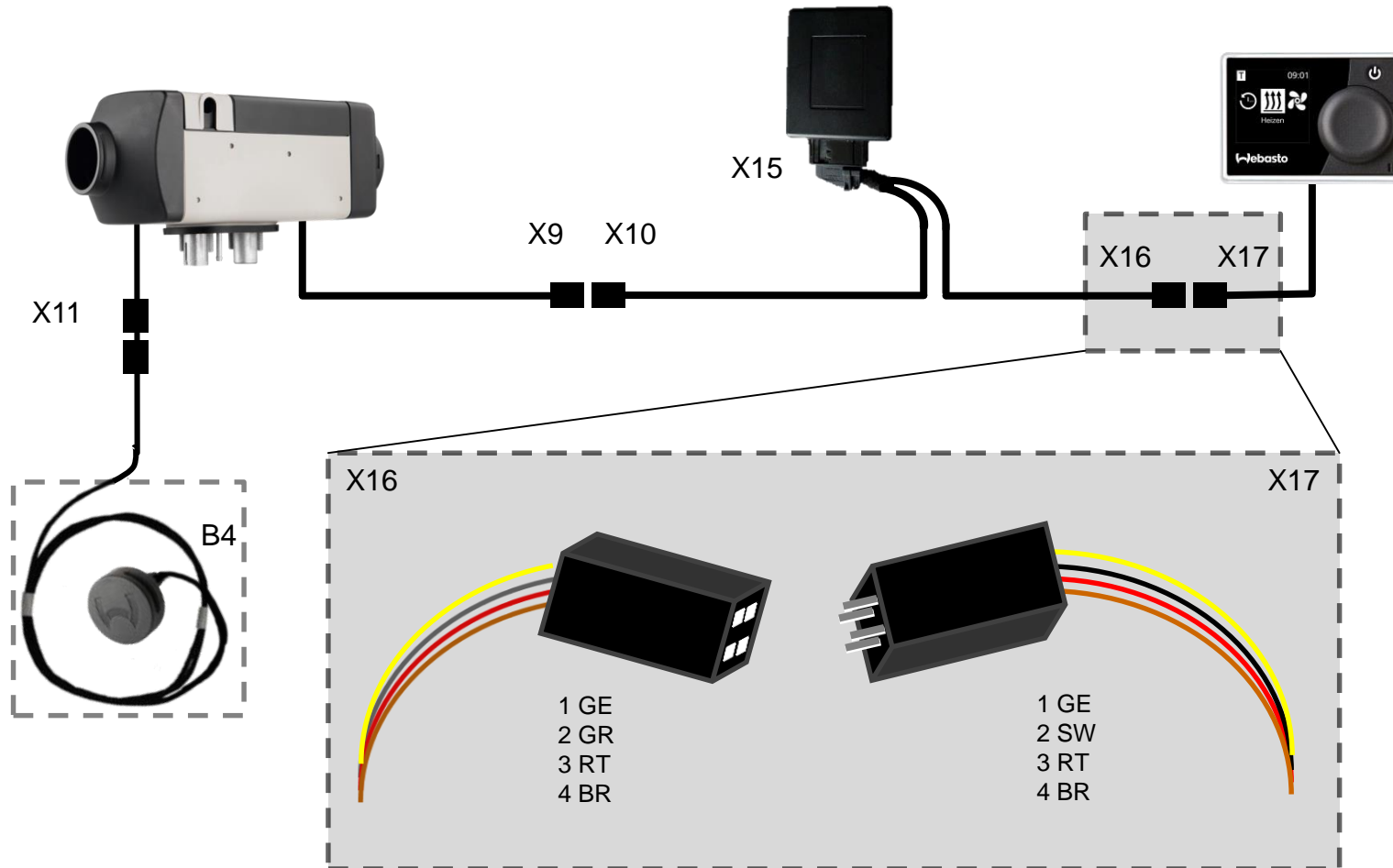
Click [here](#) for the X15 pinout

AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty



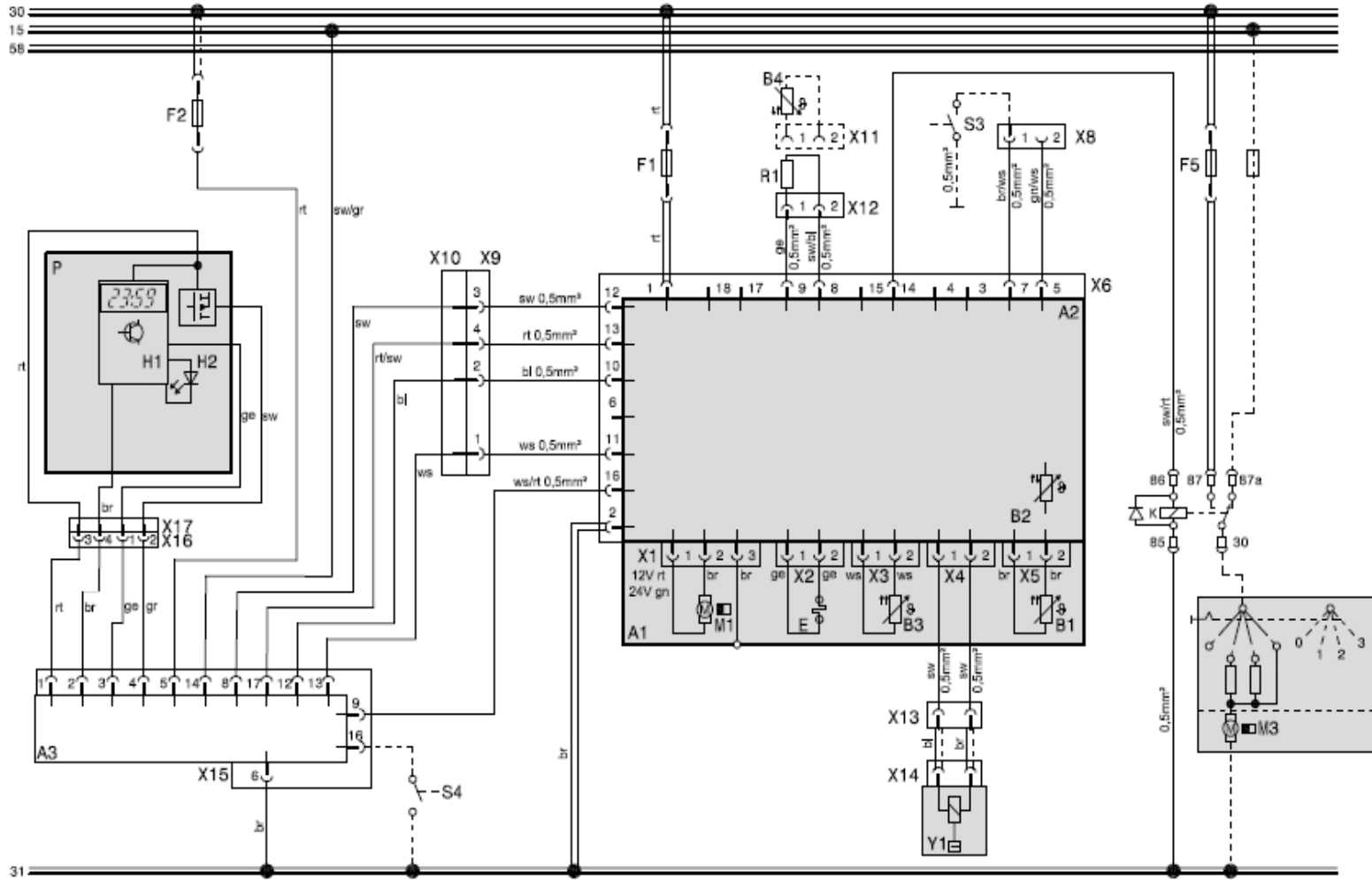
Click [here](#) for the X16-X17 pinout

# AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty



Click [here](#) for the wiring diagram

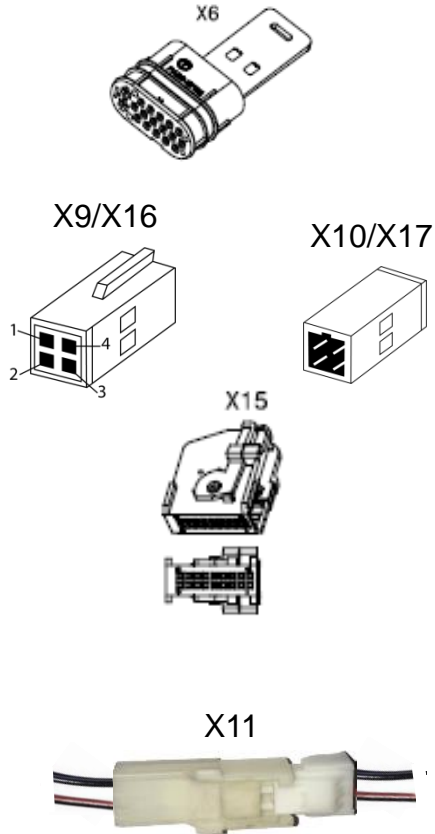
# AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty



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AT 2000 ST Analog ↔ Unibox ↔ MultiControl Heavy Duty



A2	Heater Control Unit
A3	Unibox
P	MultiControl
X6	Connector heater
X9	Connector
X10	Connector
X11	Connector External temperature sensor (version < 2017)
X15	Connector Unibox
X16	Connector
X17	Connector MultiControl

## AT 2000 STC Analog ↔ Rotary Switch

Air Top 2000 STC Analog



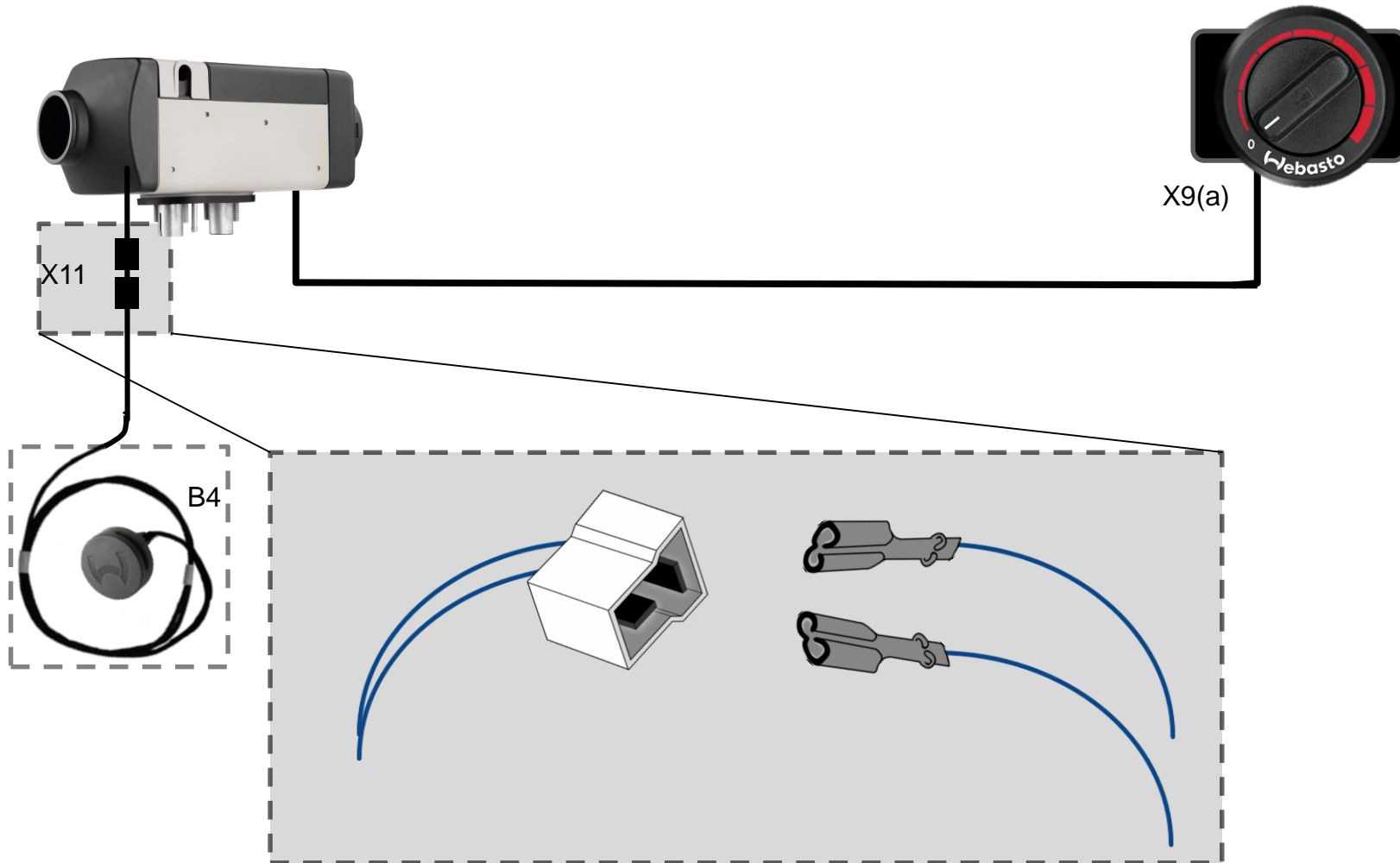
Rotary Switch



External temperature sensor  
(optional)

Click [here](#) for the pinout

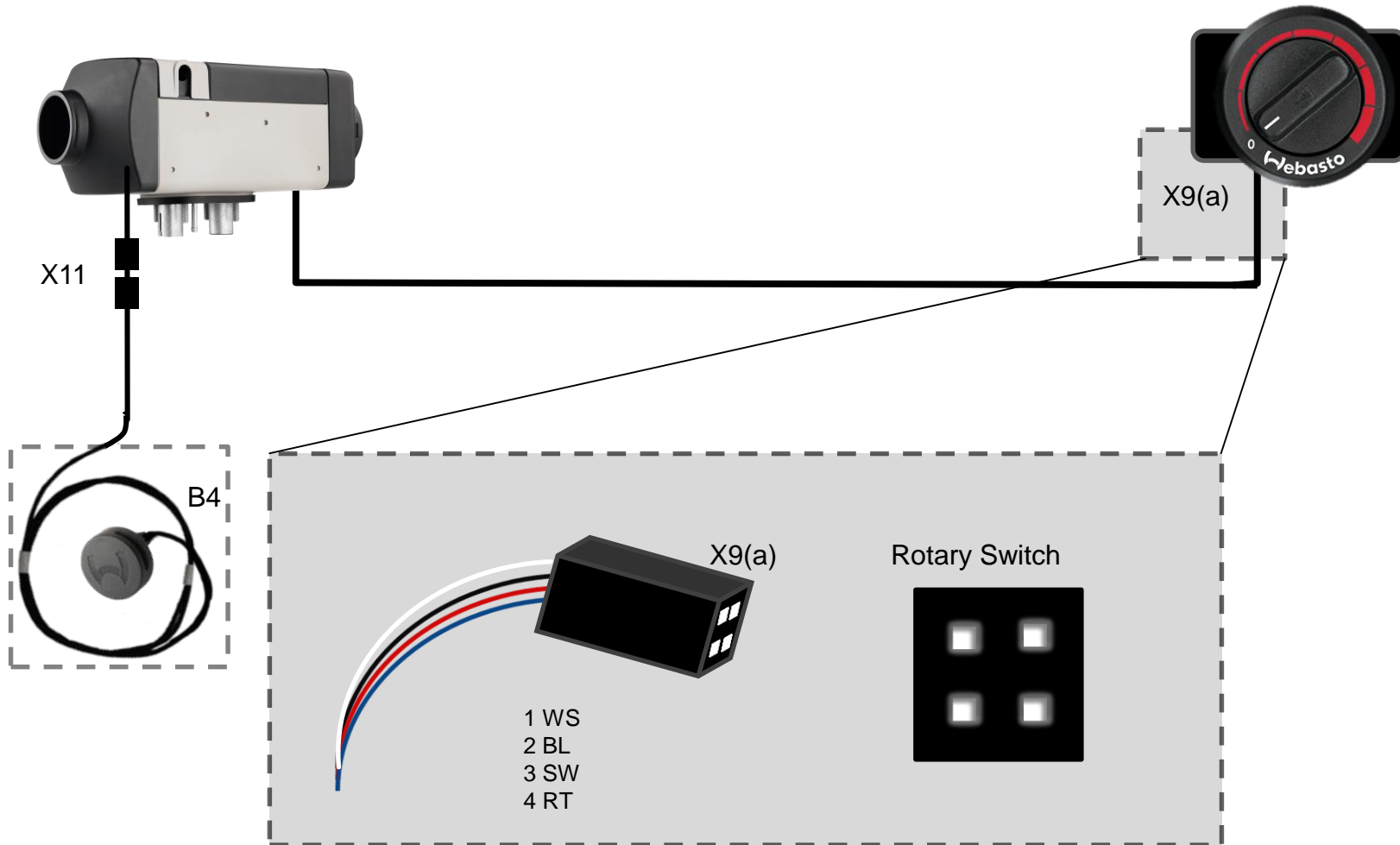
## AT 2000 STC Analog ↔ Rotary Switch



Click [here](#) for the X9(a) pinout



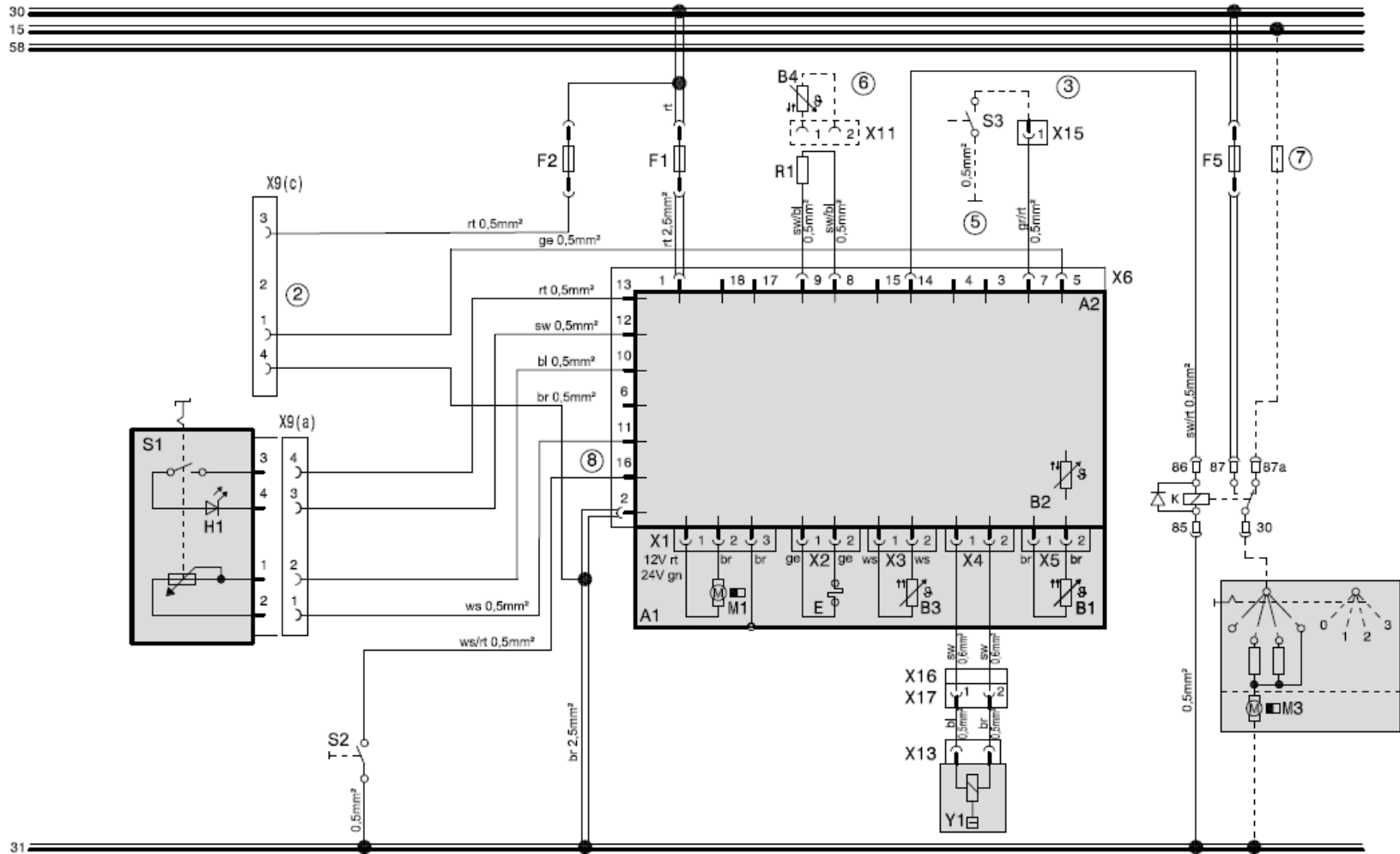
## AT 2000 STC Analog ↔ Rotary Switch



Click [here](#) for the wiring diagram



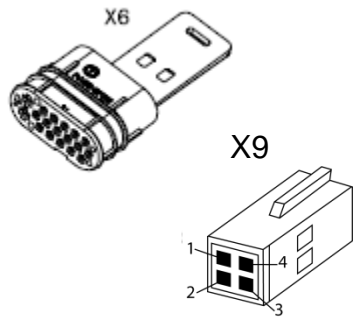
# AT 2000 STC Analog ↔ Rotary Switch



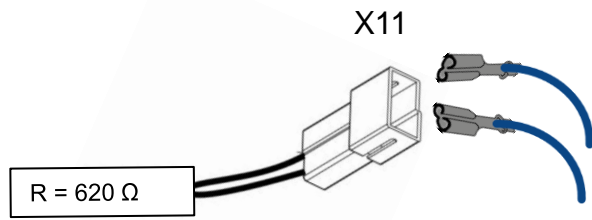
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# AT 2000 STC Analog ↔ Rotary Switch



- A2 Heater Control Unit
- S2 Rotary switch
- X6 Connector heater
- X9(a) Connector Rotary switch
- X11 Connector External temperature sensor (version > 2017)

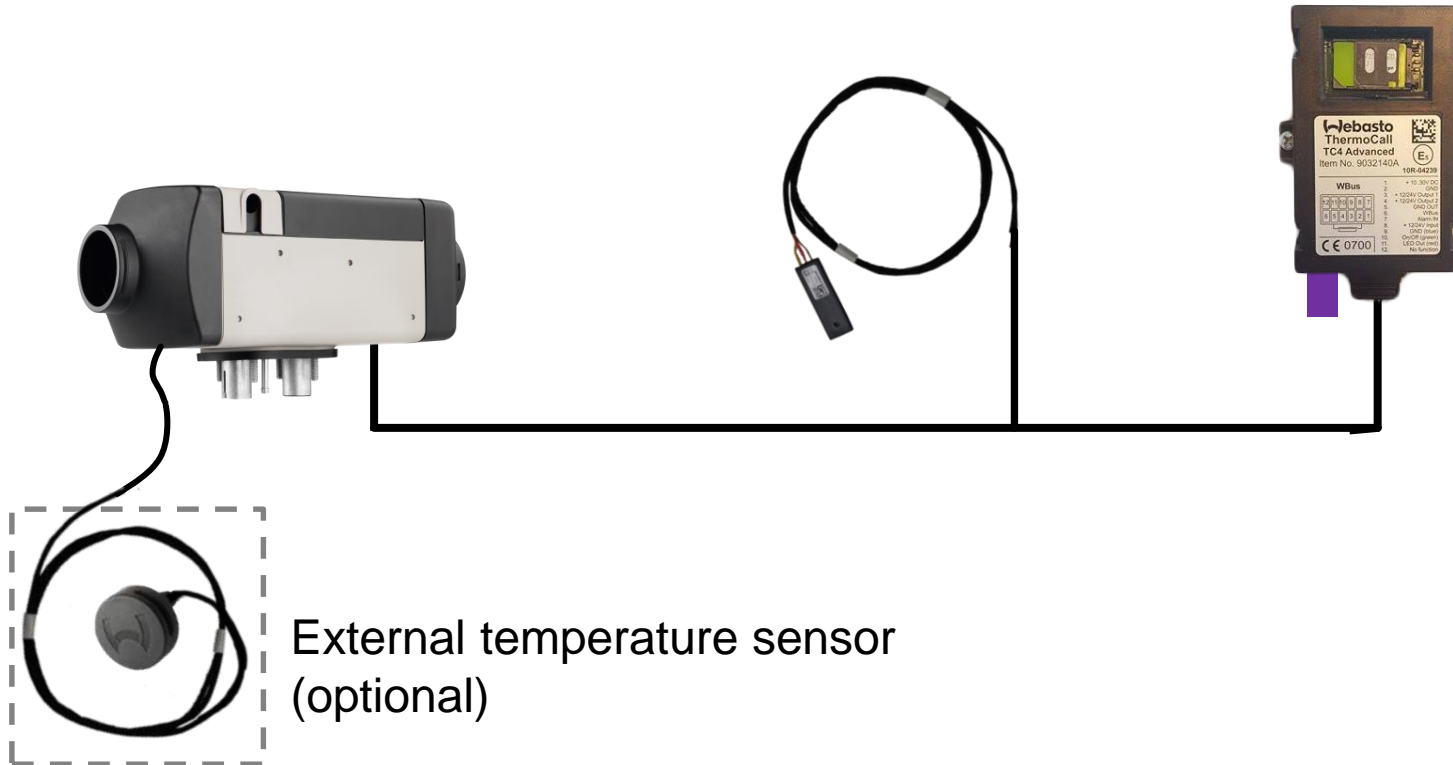


AT 2000 STC W-bus ↔ Temperature sensor ↔ ThermoCall TC4 Advanced

Air Top 2000 STC W-bus

W-bus temperature sensor

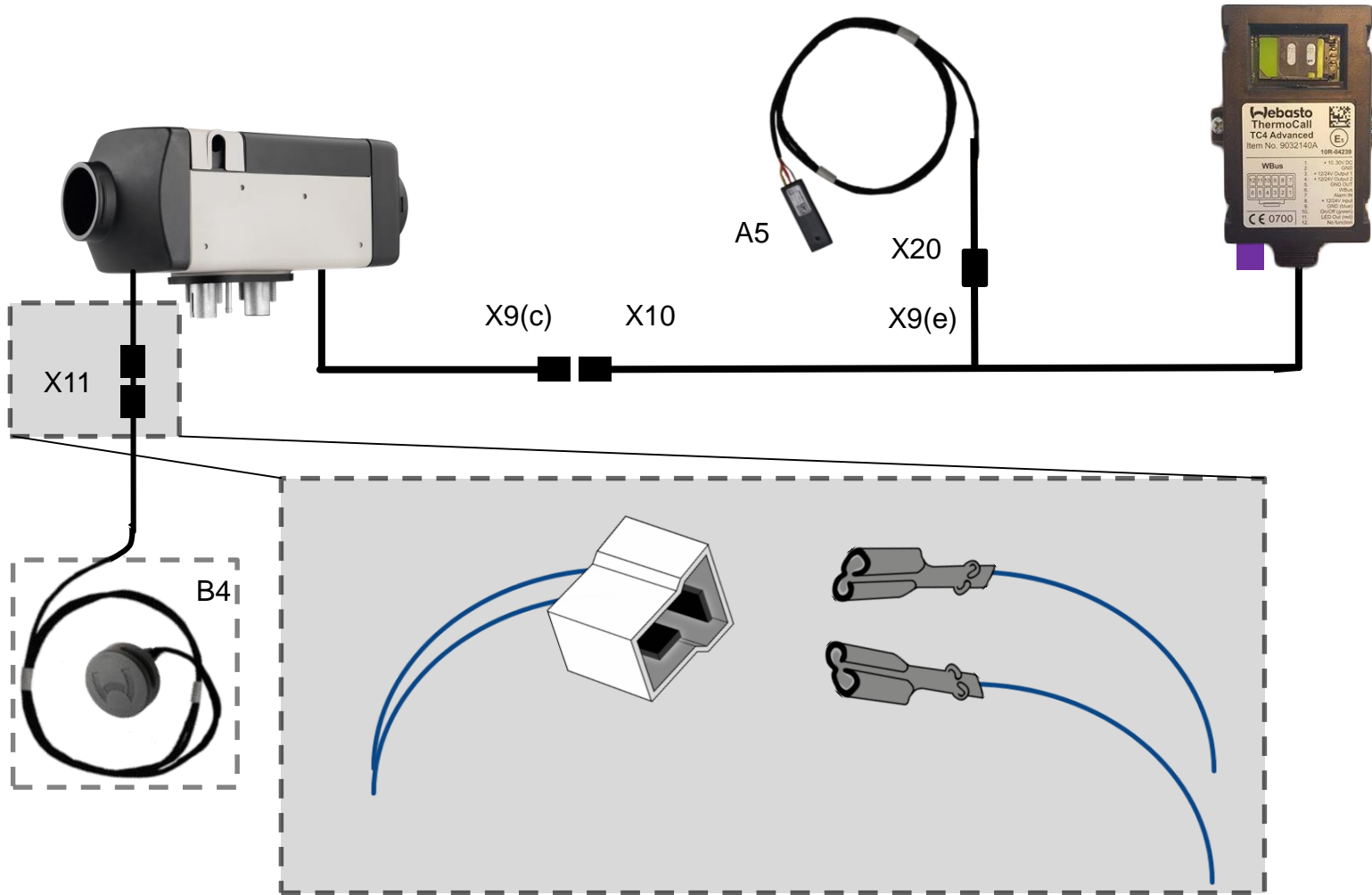
ThermoCall TC4 Advanced



External temperature sensor (optional)

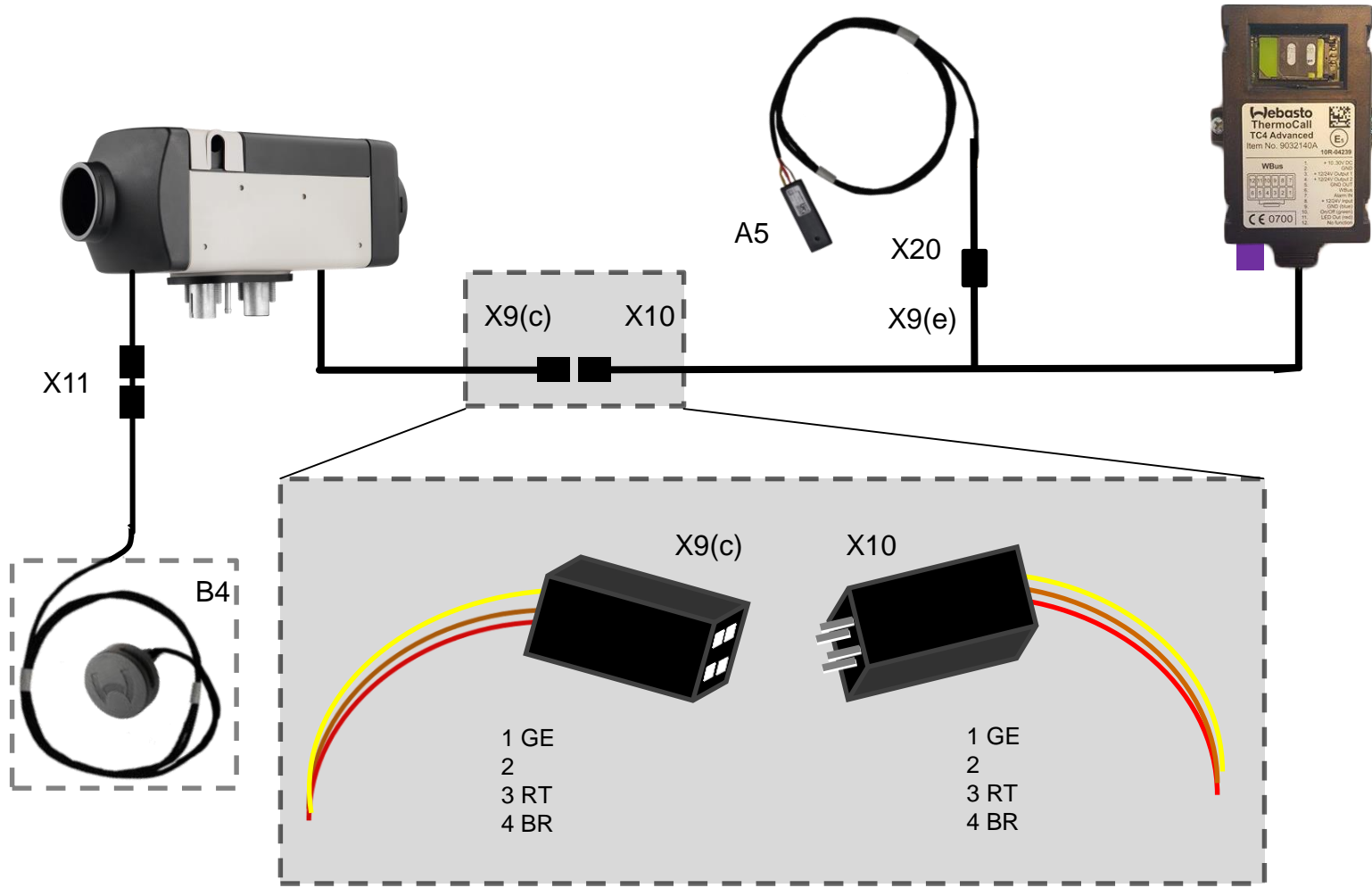
Click [here](#) for the pinout

AT 2000 STC W-bus ↔ Temperature sensor ↔ ThermoCall TC4 Advanced



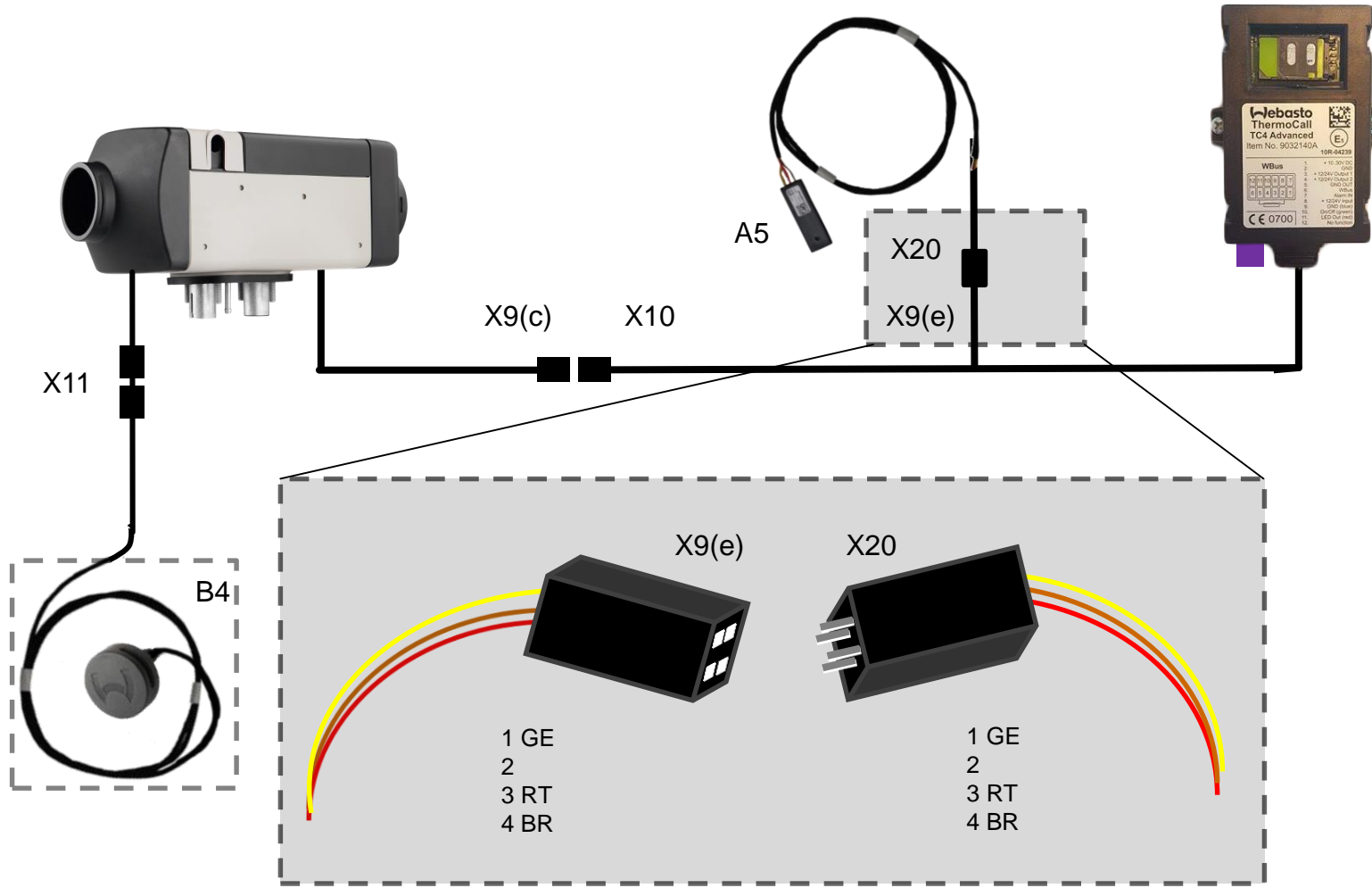
Click [here](#) for the X9(c)-X10 pinout

AT 2000 STC W-bus ↔ Temperature sensor ↔ ThermoCall TC4 Advanced



Click [here](#) for the X20-X9(e) pinout

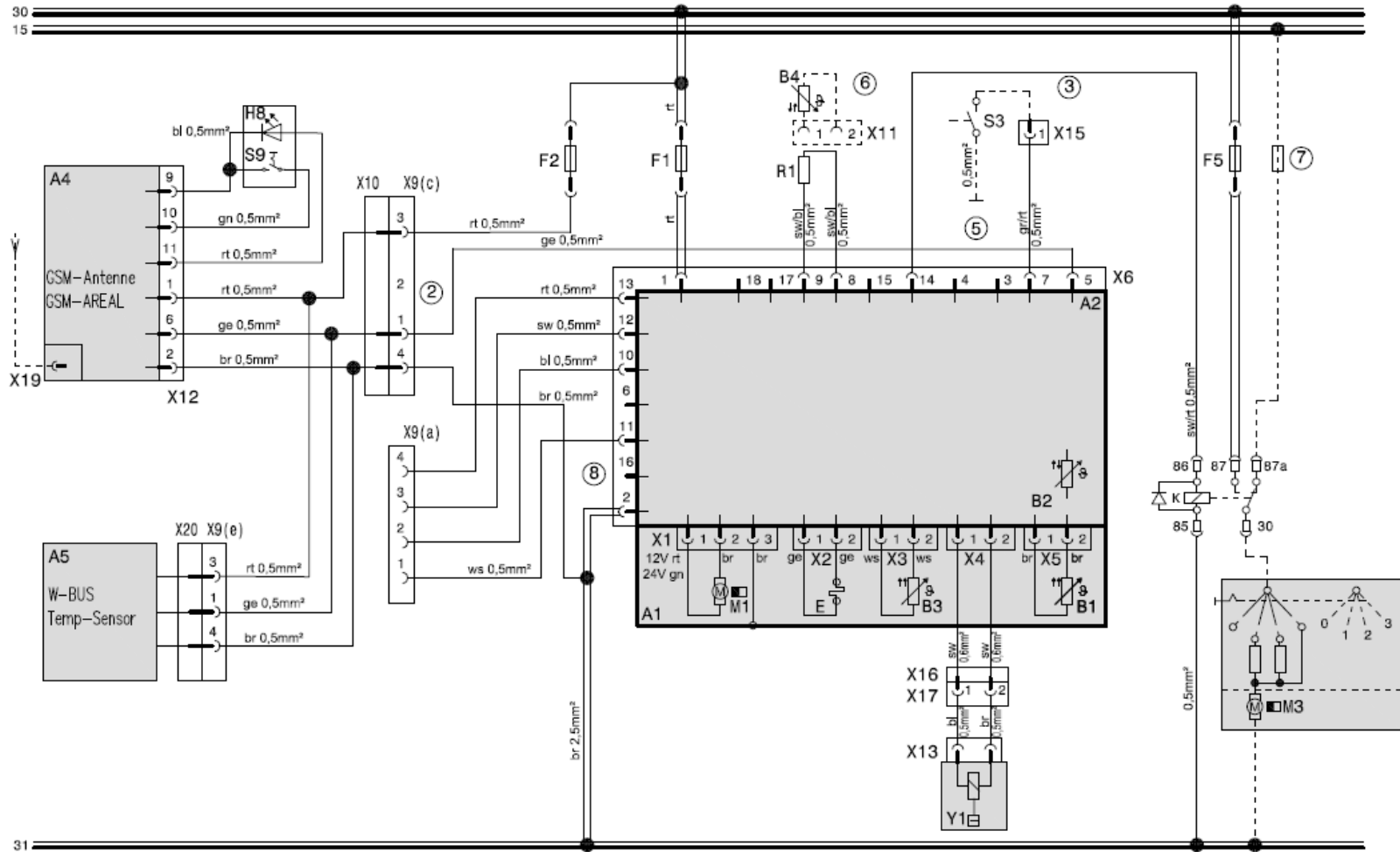
# AT 2000 STC W-bus ↔ Temperature sensor ↔ ThermoCall TC4 Advanced



Click [here](#) for the wiring diagram



# AT 2000 STC W-bus ↔ Temperature sensor ↔ ThermoCall TC4 Advanced

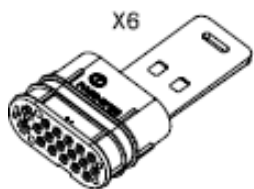


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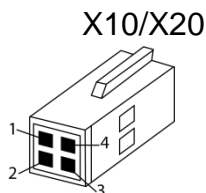
Click [here](#) for more information



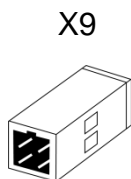
## AT 2000 STC W-bus ↔ Temperature sensor ↔ ThermoCall TC4 Advanced



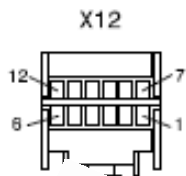
X6



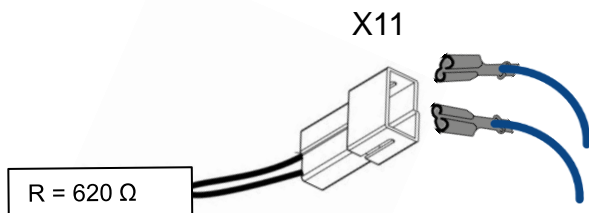
X10/X20



X9



X12



X11

A2	Heater Control Unit
A4	Receiver TC4 Advanced
A5	W-bus Temperature sensor (HTM)
X6	Connector heater
X9(c)	Connector
X10	Connector
X9(e)	Connector
X11	Connector External temperature sensor (version >2017)
X12	Connector Receiver
X20	Connector Temperature Sensor

### Note:

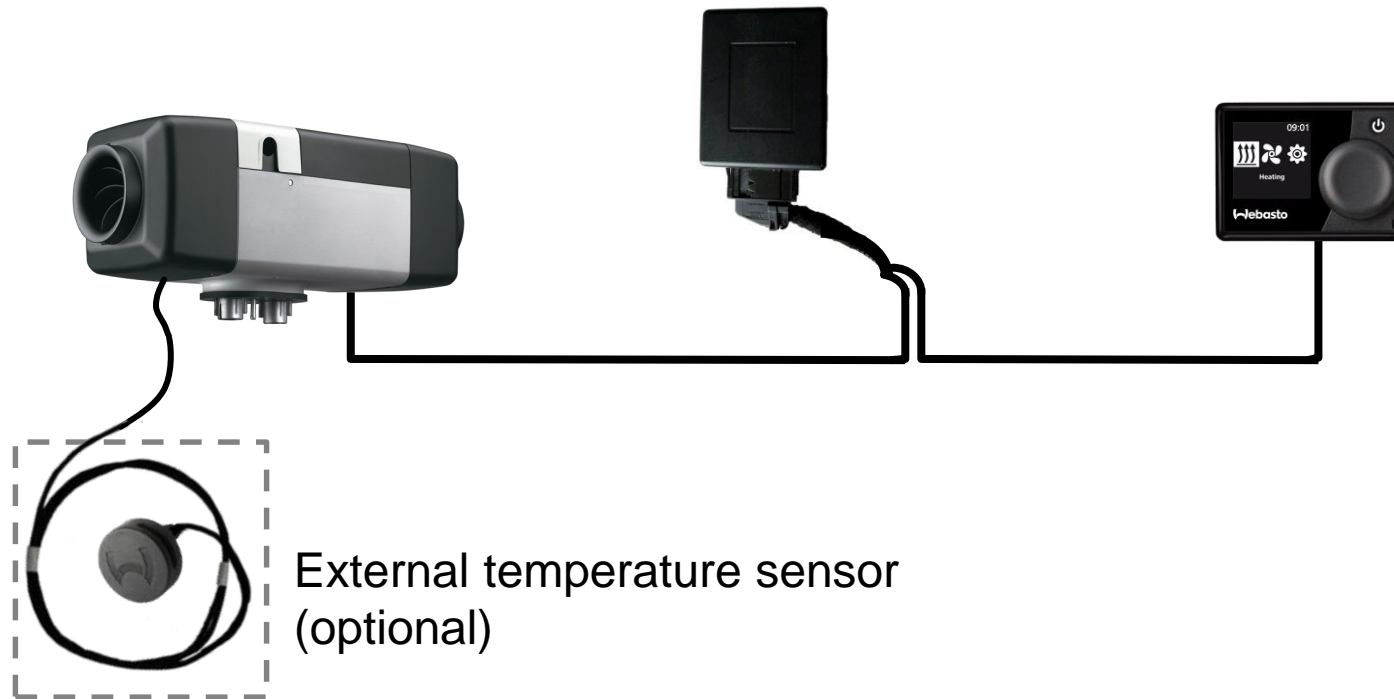
- The W-bus Temperature sensor (A5) is used to give feedback only for TC4 Advanced (mobile phone) or T 100HTM (remote control).
- External temperature sensor (B4) is optional

AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty

Air Top Evo 3900 – 5500 Analog

Unibox

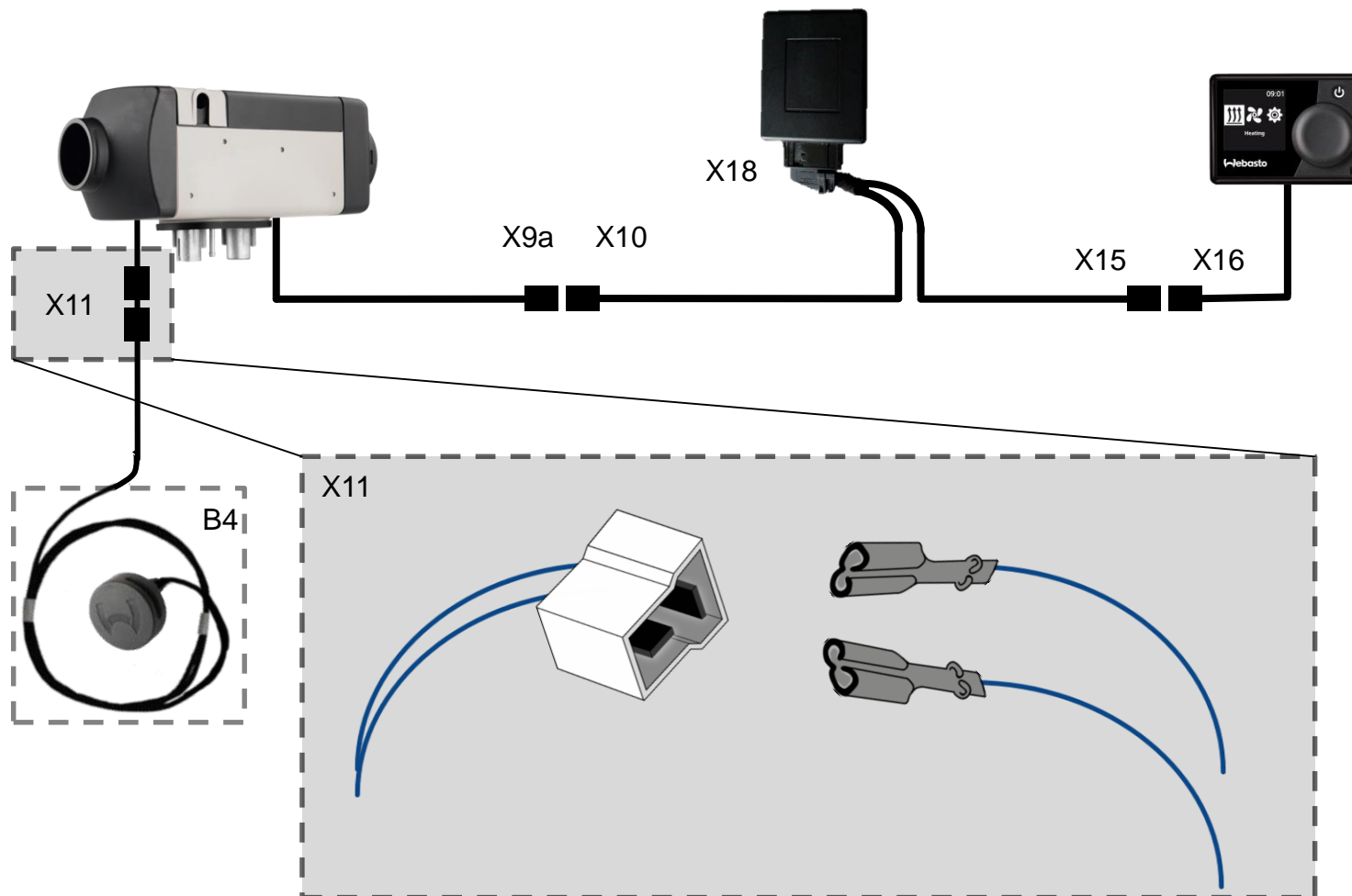
SmartControl HD



External temperature sensor (optional)

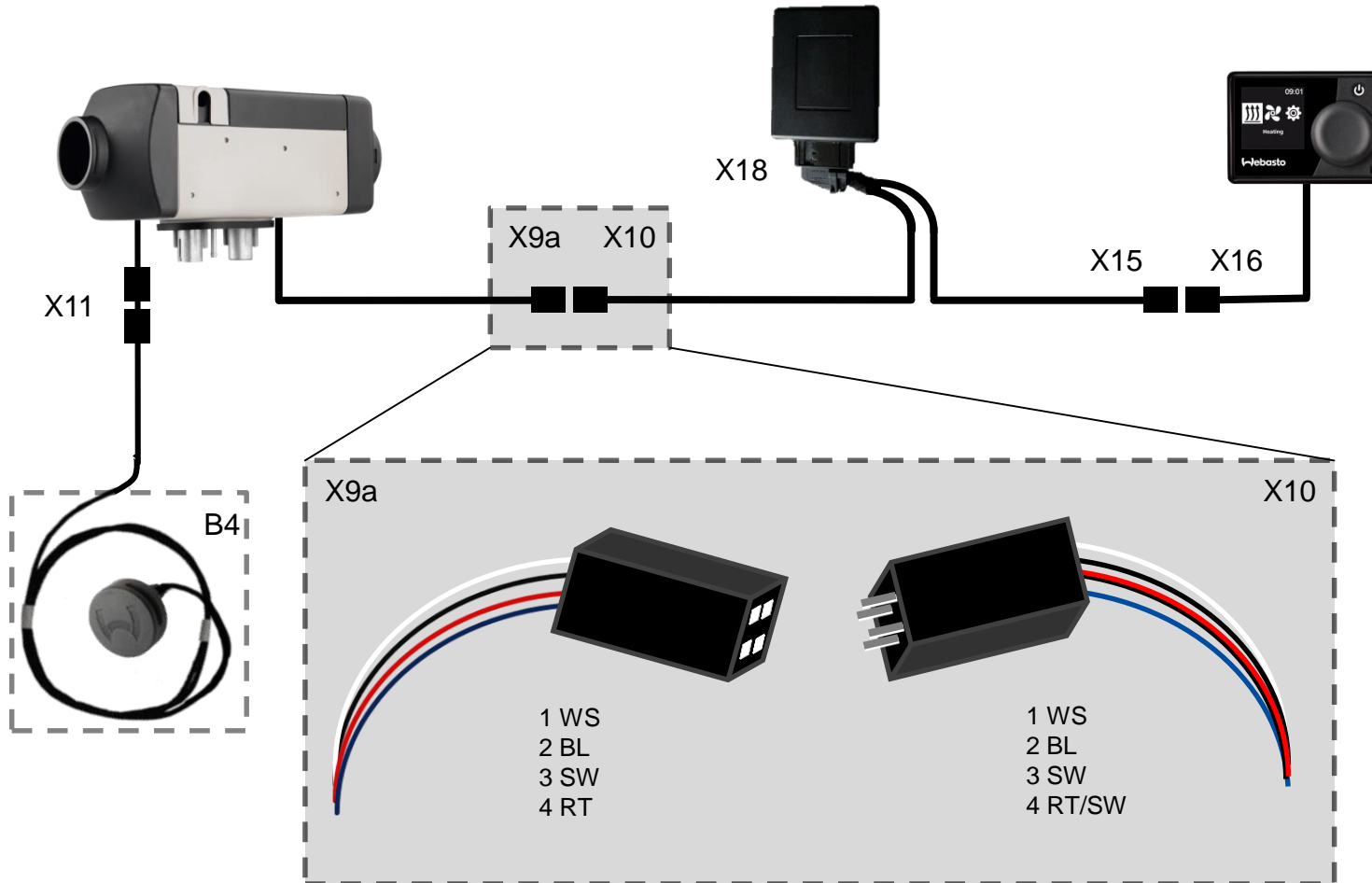
Click [here](#) for the pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty



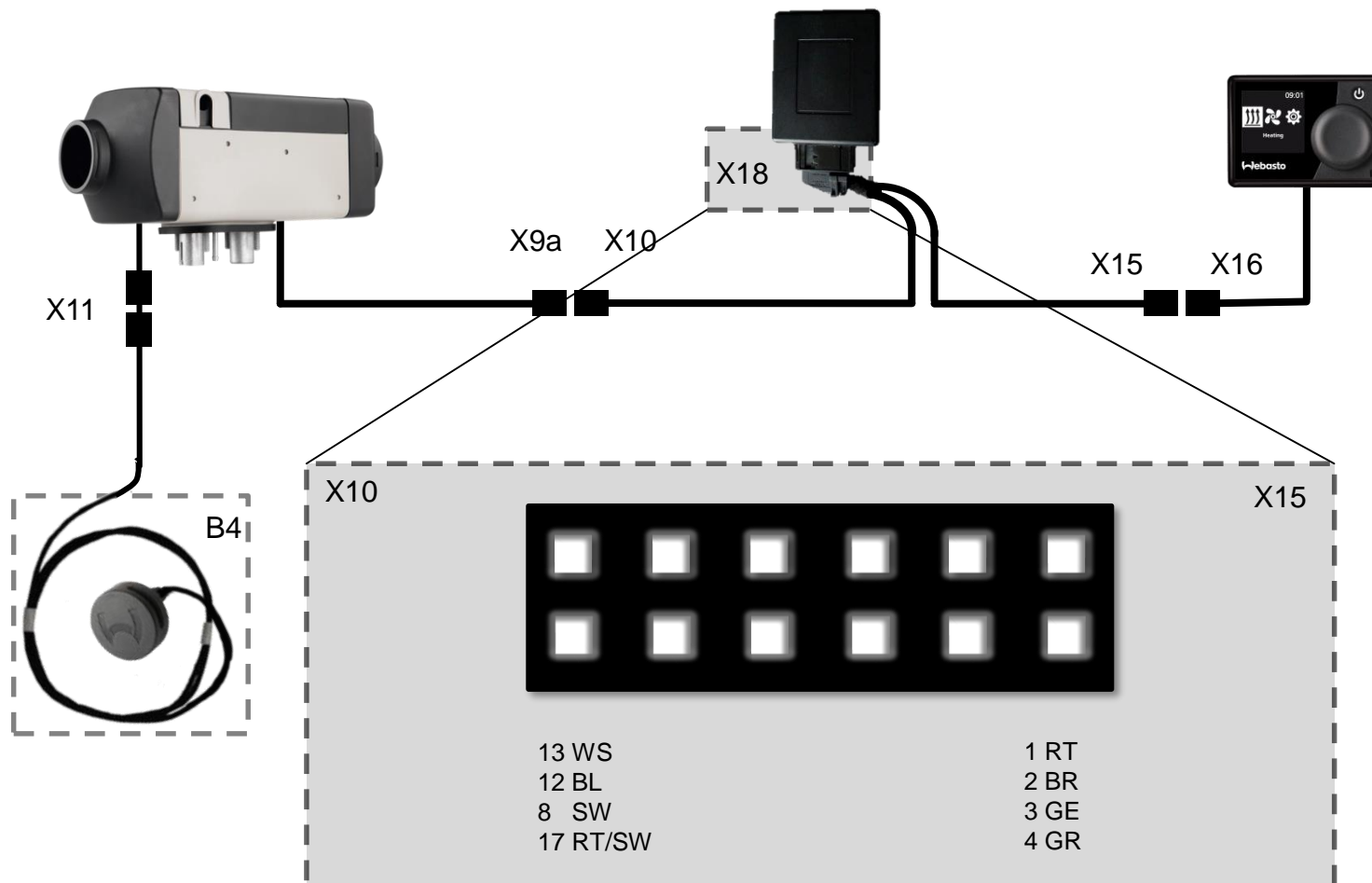
Click [here](#) for the X9a-X10 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty



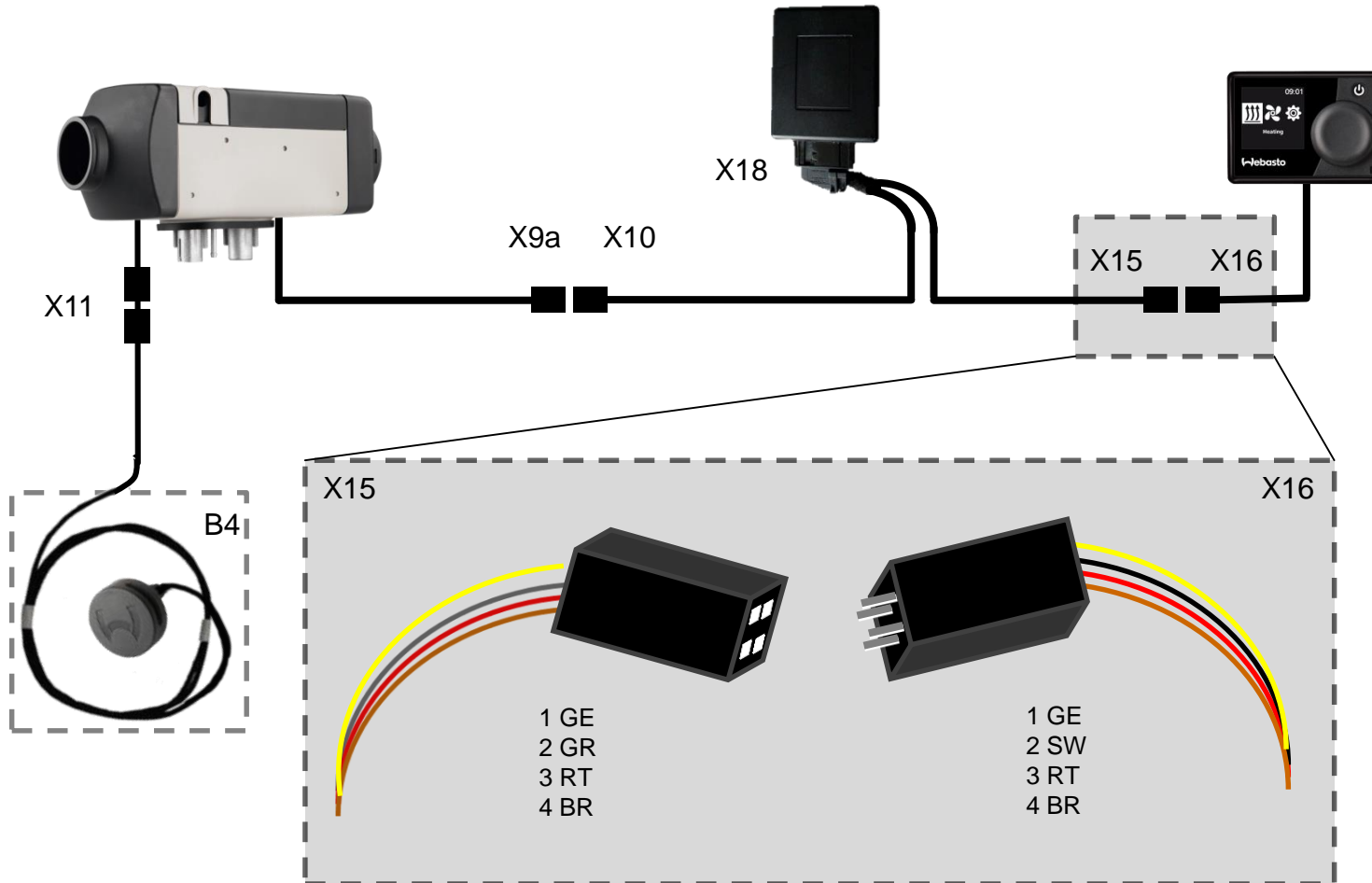
Click [here](#) for the X18 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty



Click [here](#) for the X15-X16 pinout

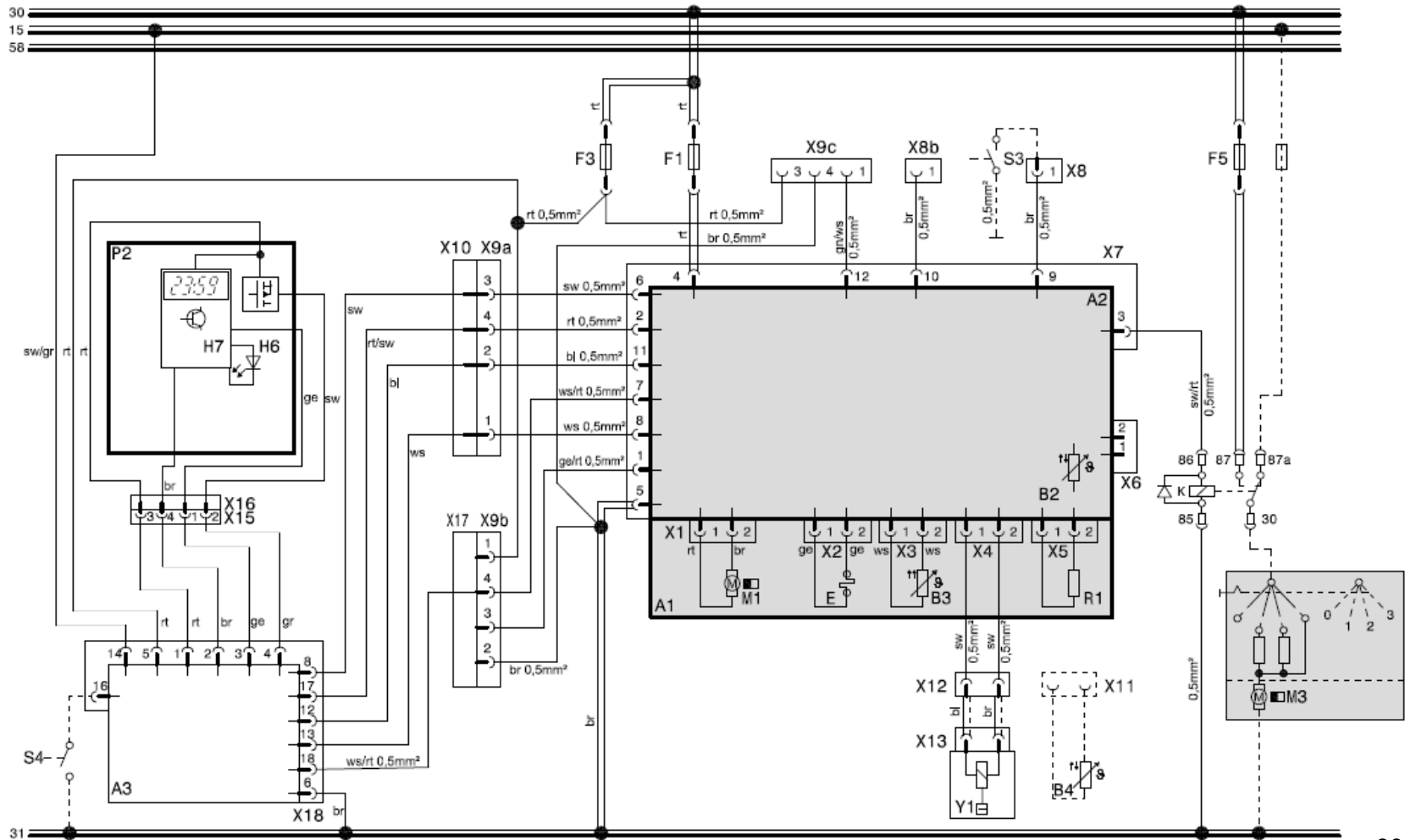
AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty



Click [here](#) for the wiring diagram



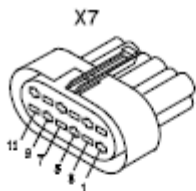
# AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty



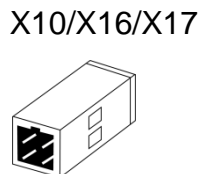
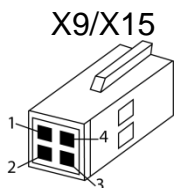
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Click [here](#) for more information

AT Evo 3900-5500 Analog ↔ Unibox ↔ SmartControl Heavy Duty



- A2 Heater Control Unit
- A3 Unibox
- P2 SmartControl
- X7 Connector Control Unit heater
- X9(a) Connector
- X9(b) Connector
- X10 Connector
- X11 Connector external temperature sensor (version < 2017)
- X15 Connector
- X16 Connector SmartControl
- X17 Connector
- X18 Connector Unibox



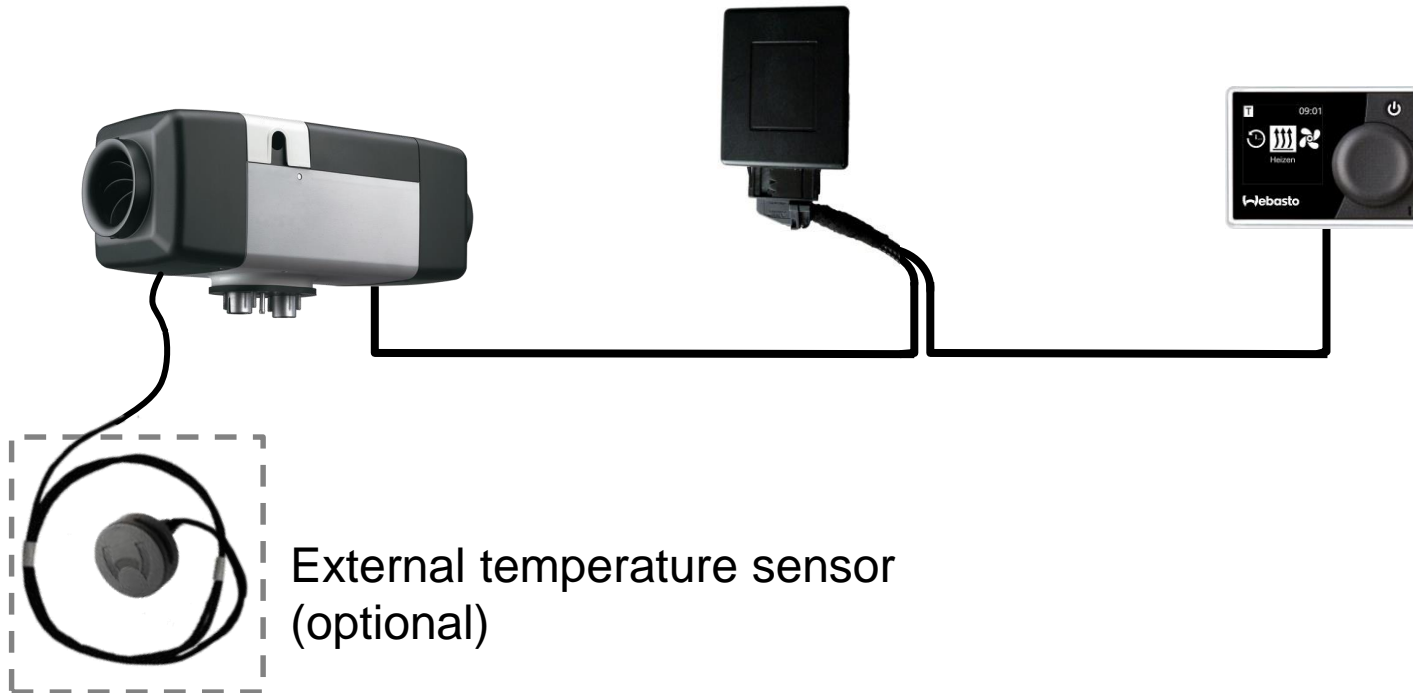


AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty

Air Top Evo 3900 – 5500 Analog

Unibox

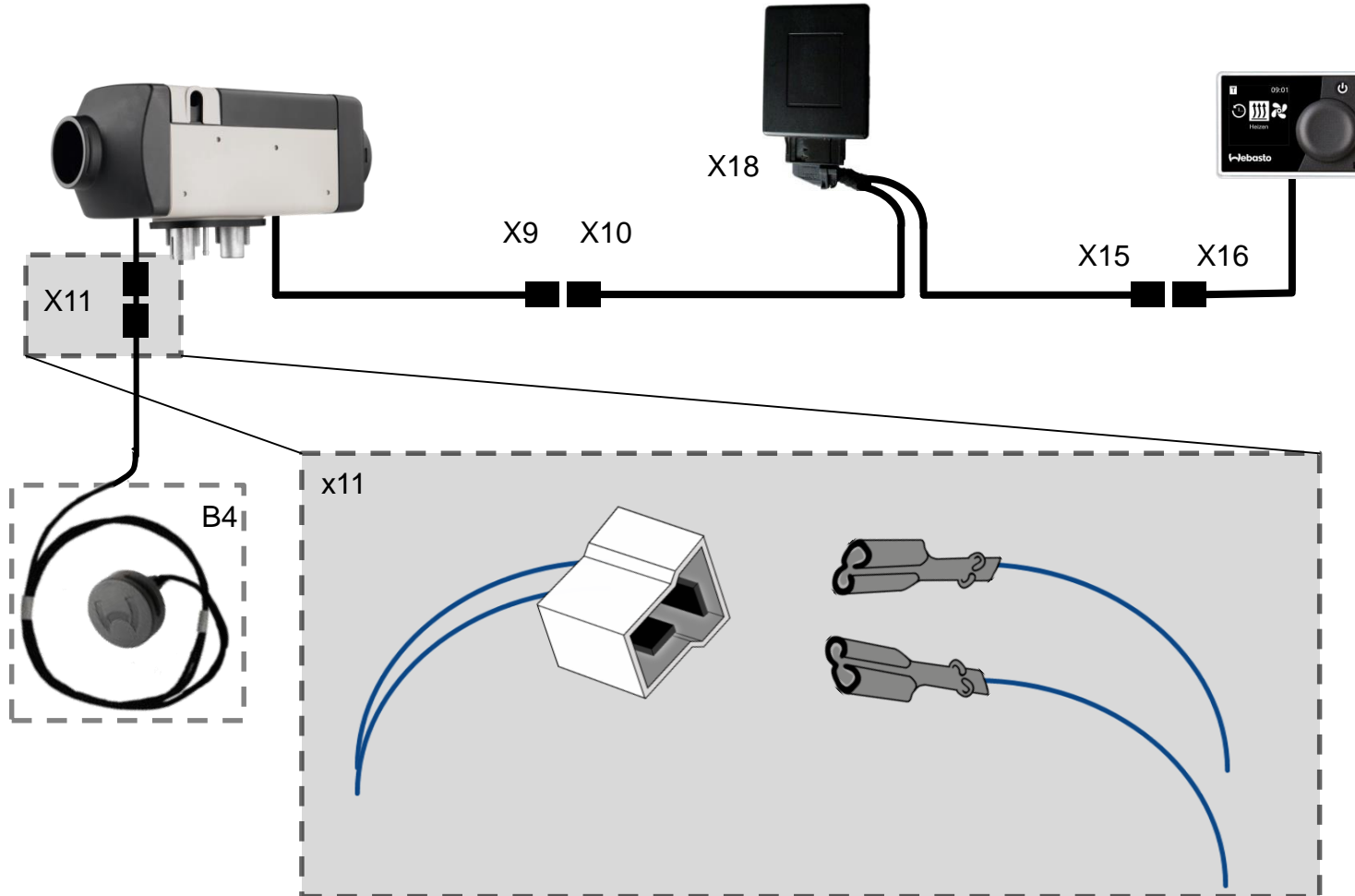
MultiControl HD



External temperature sensor (optional)

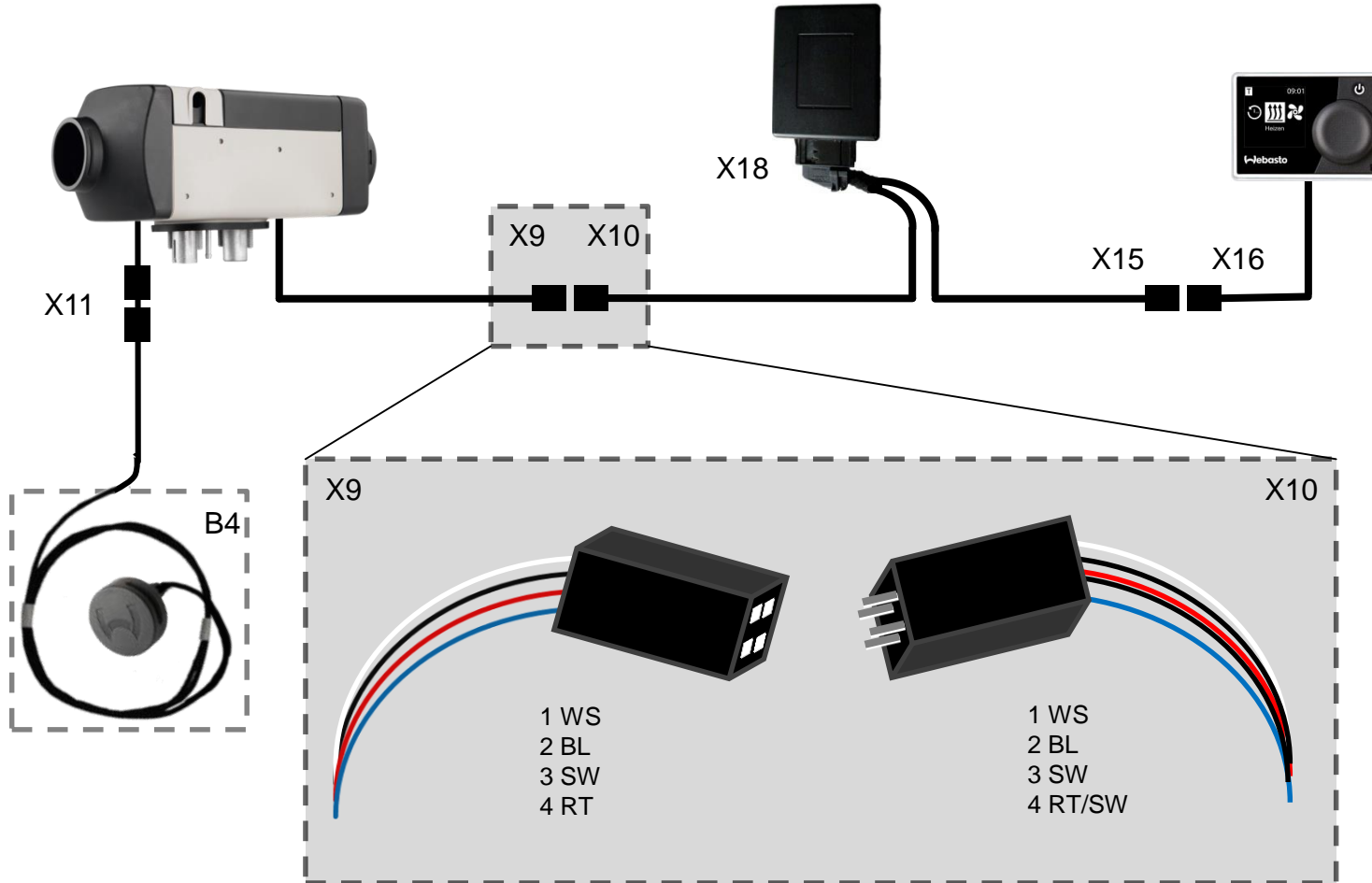
Click [here](#) for the pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty



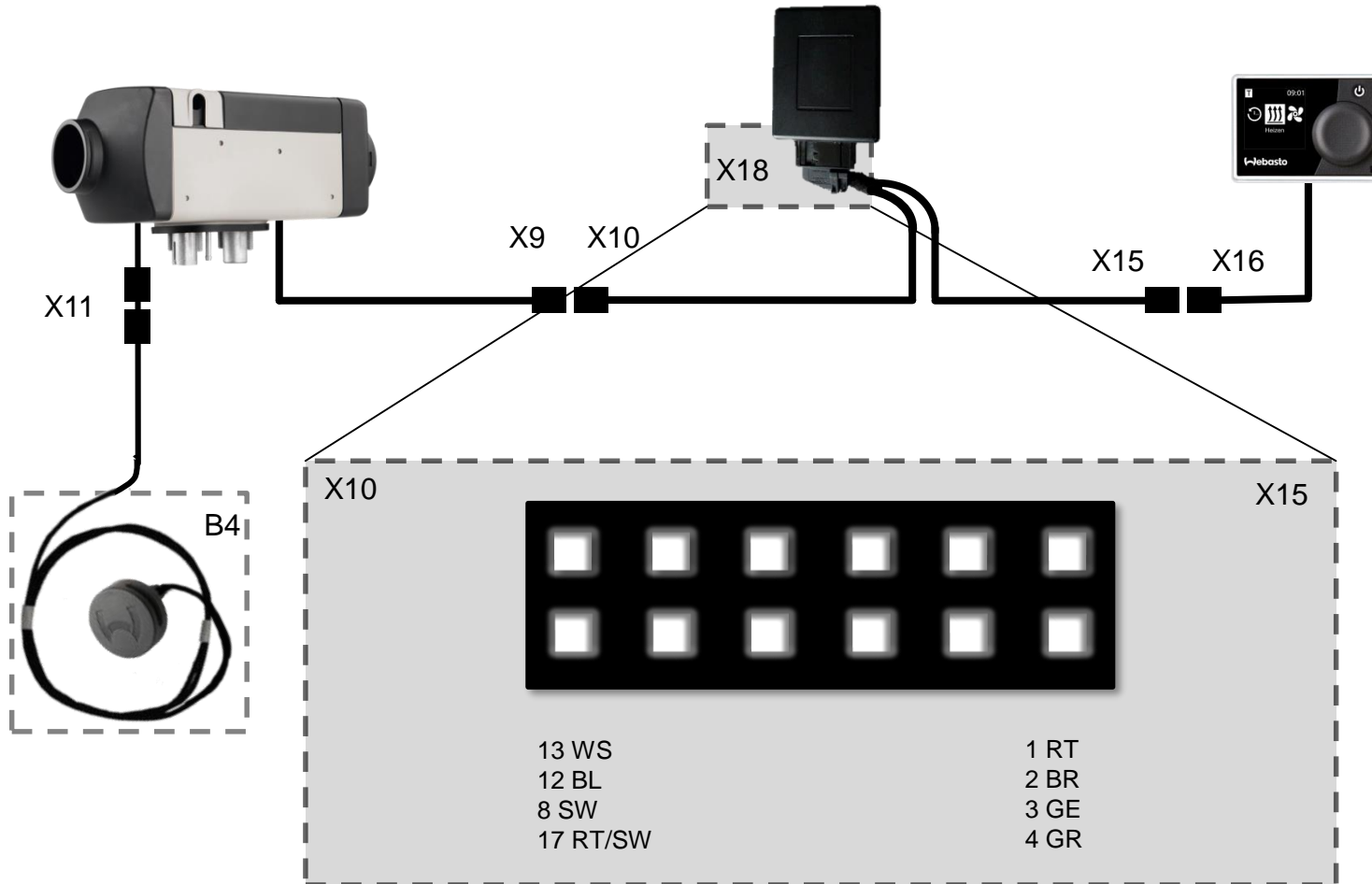
Click [here](#) for the X9-X10 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty



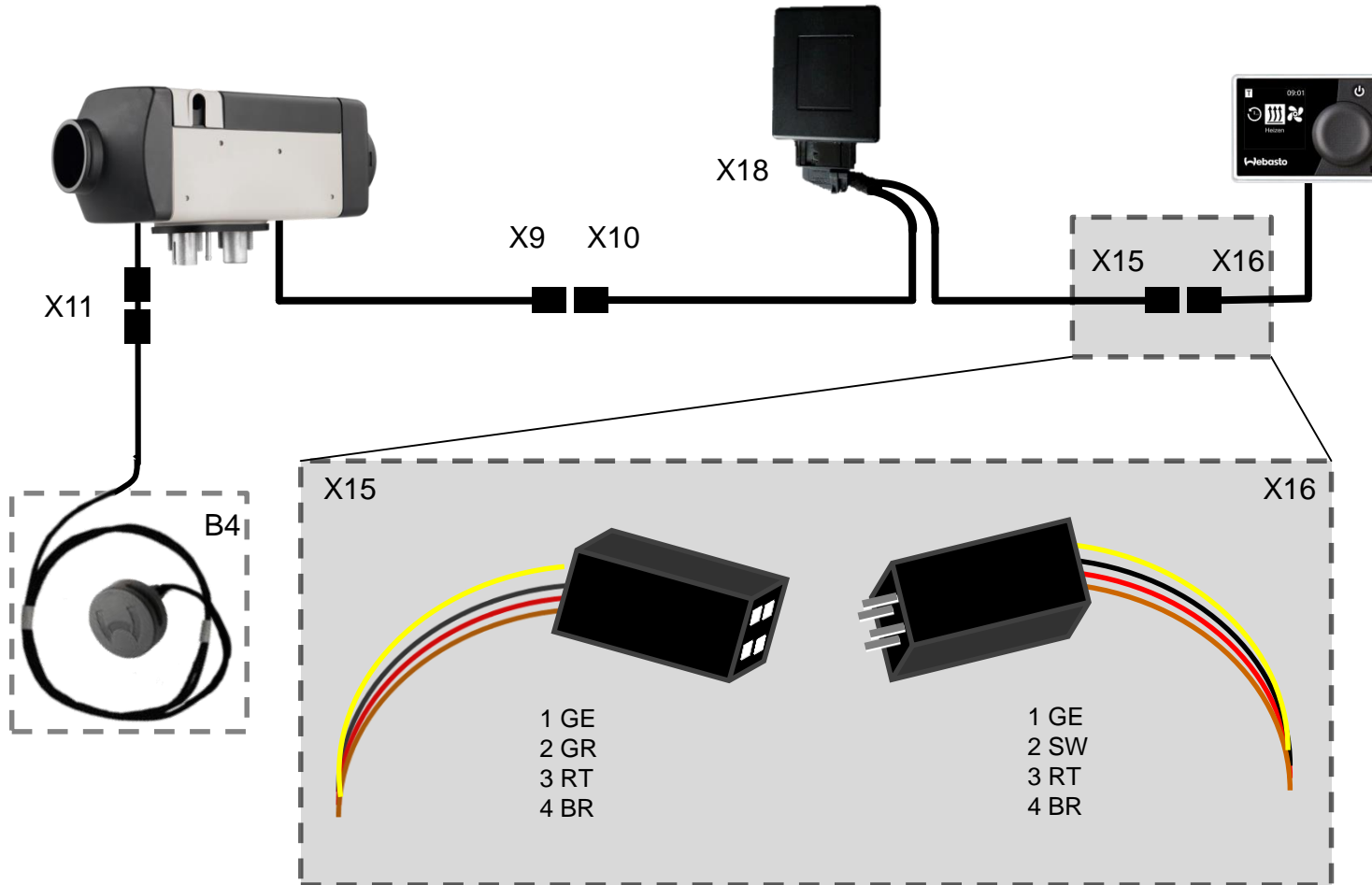
Click [here](#) for the X18 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty



Click [here](#) for the X15-X16 pinout

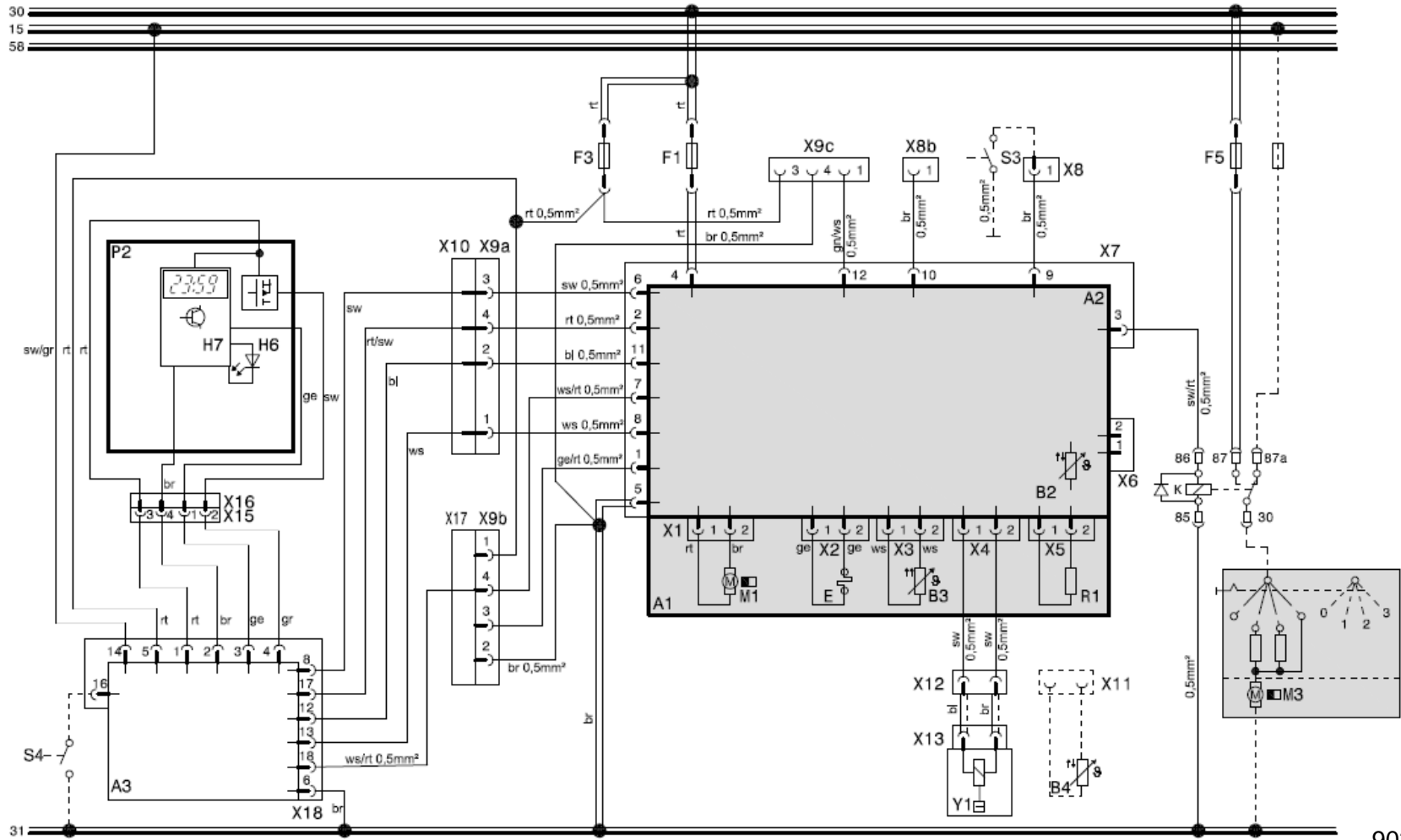
AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty



Click [here](#) for the wiring diagram



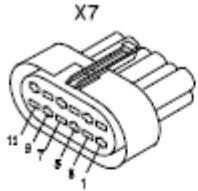
# AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty



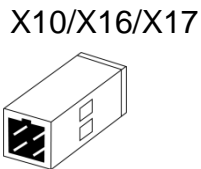
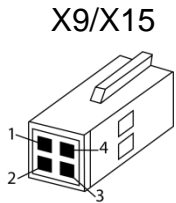
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Click [here](#) for more information

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl Heavy Duty



- A2 Heater Control Unit
- A3 Unibox
- P2 MultiControl
- X7 Connector heater



- X9(a) Connector
- X9(b) Connector
- X10 Connector
- X11 Connector external temperature sensor (version < 2017)



- X15 Connector
- X16 Connector MultiControl
- X17 Connector
- X18 Connector Unibox

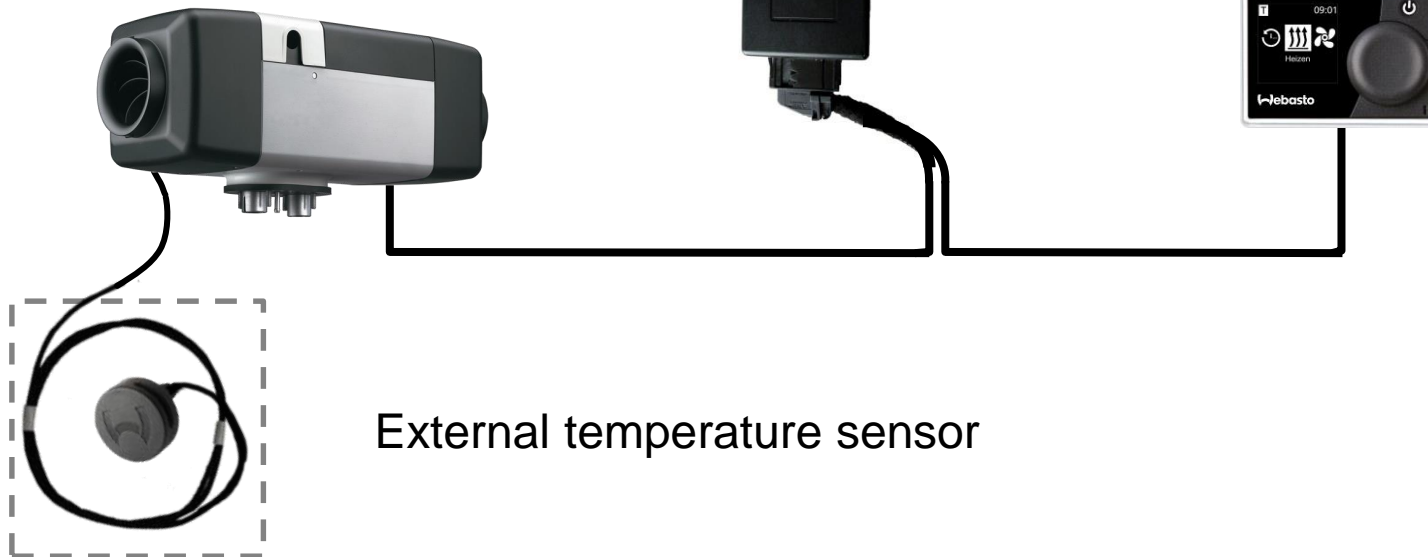


AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE

Air Top Evo 3900 – 5500 Analog

Unibox

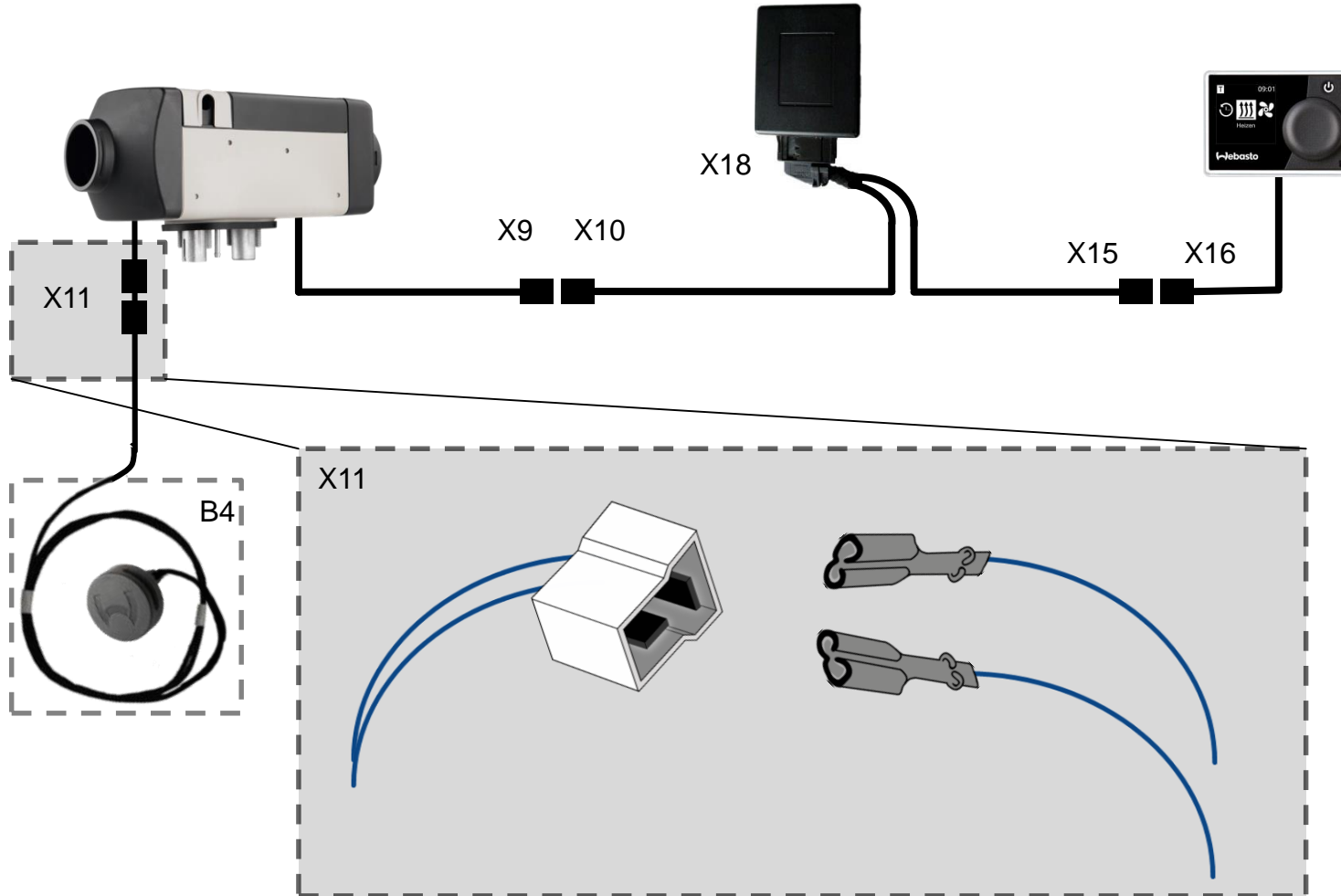
MultiControl MAR RV ATE



Click [here](#) for the pinout

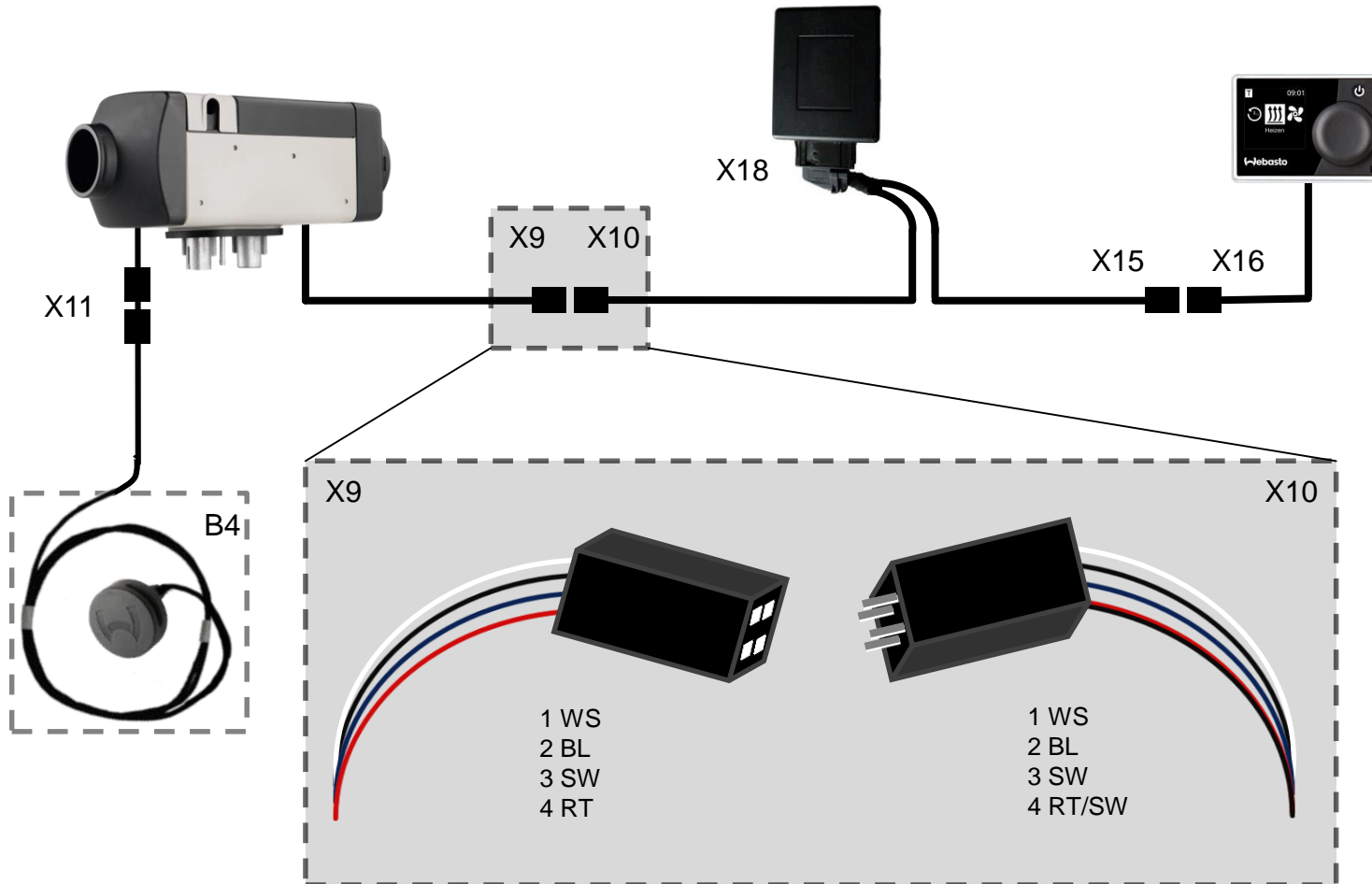


AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE



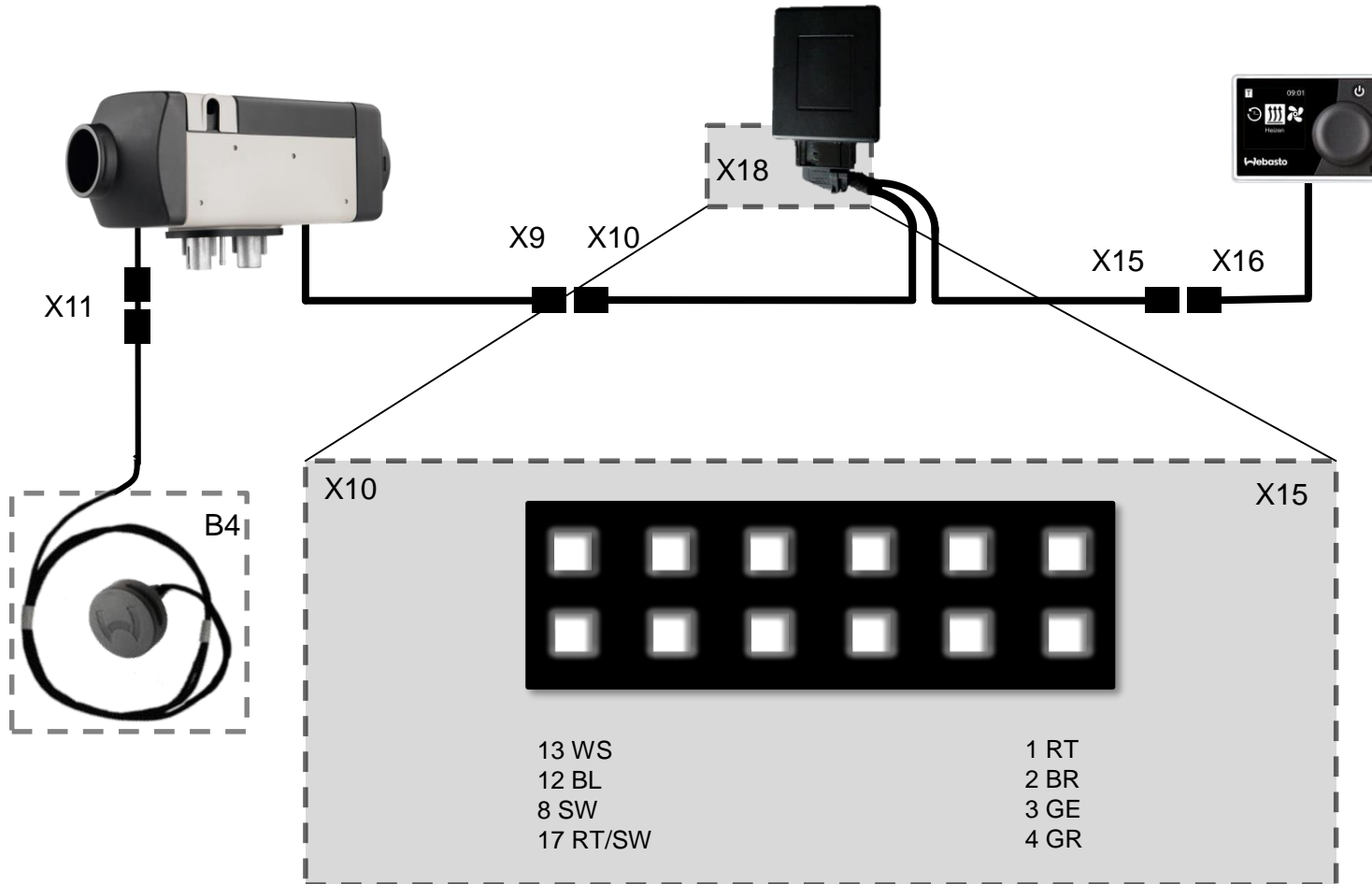
Click [here](#) for the X9-X10 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE



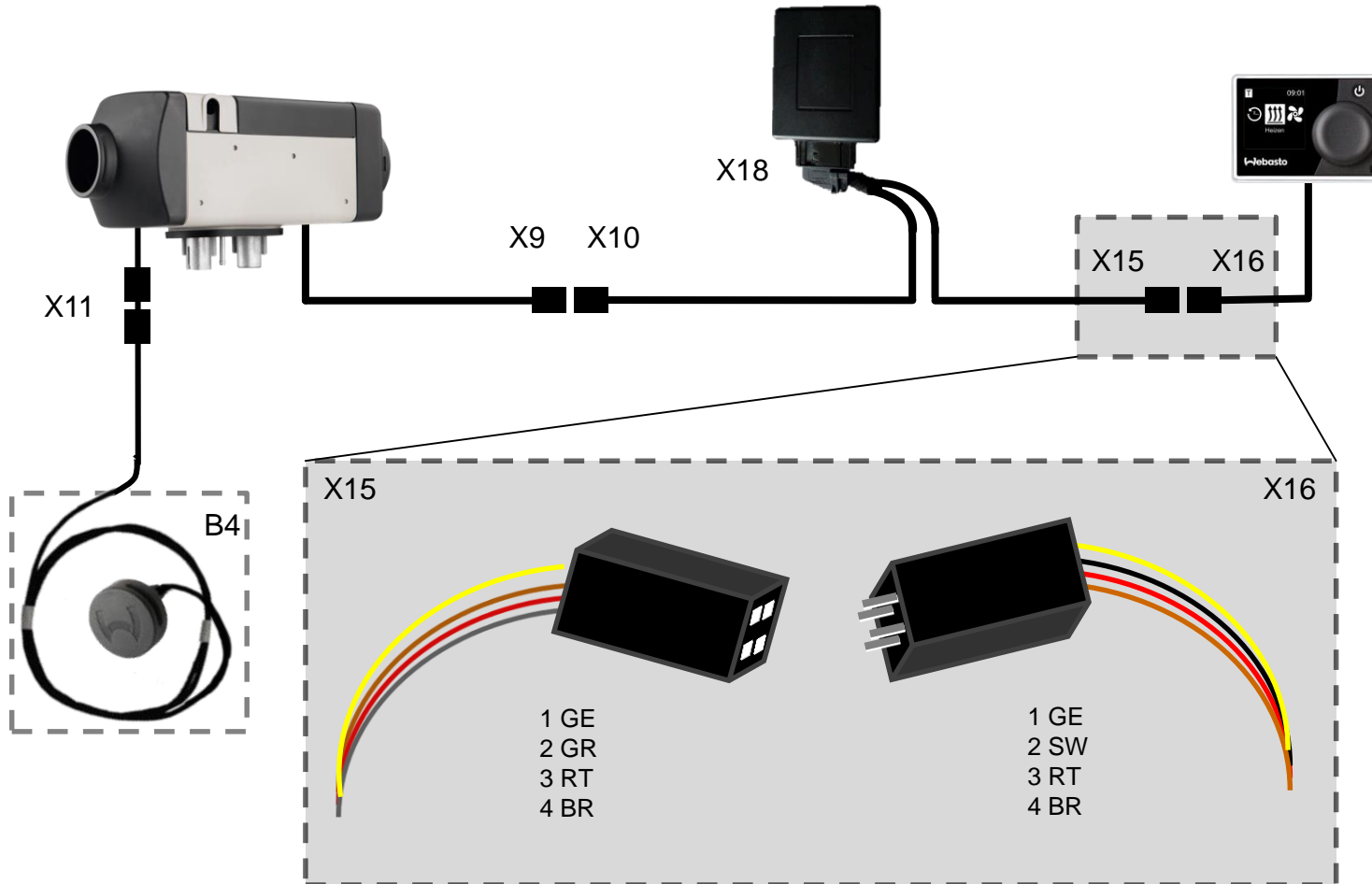
Click [here](#) for the X18 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE



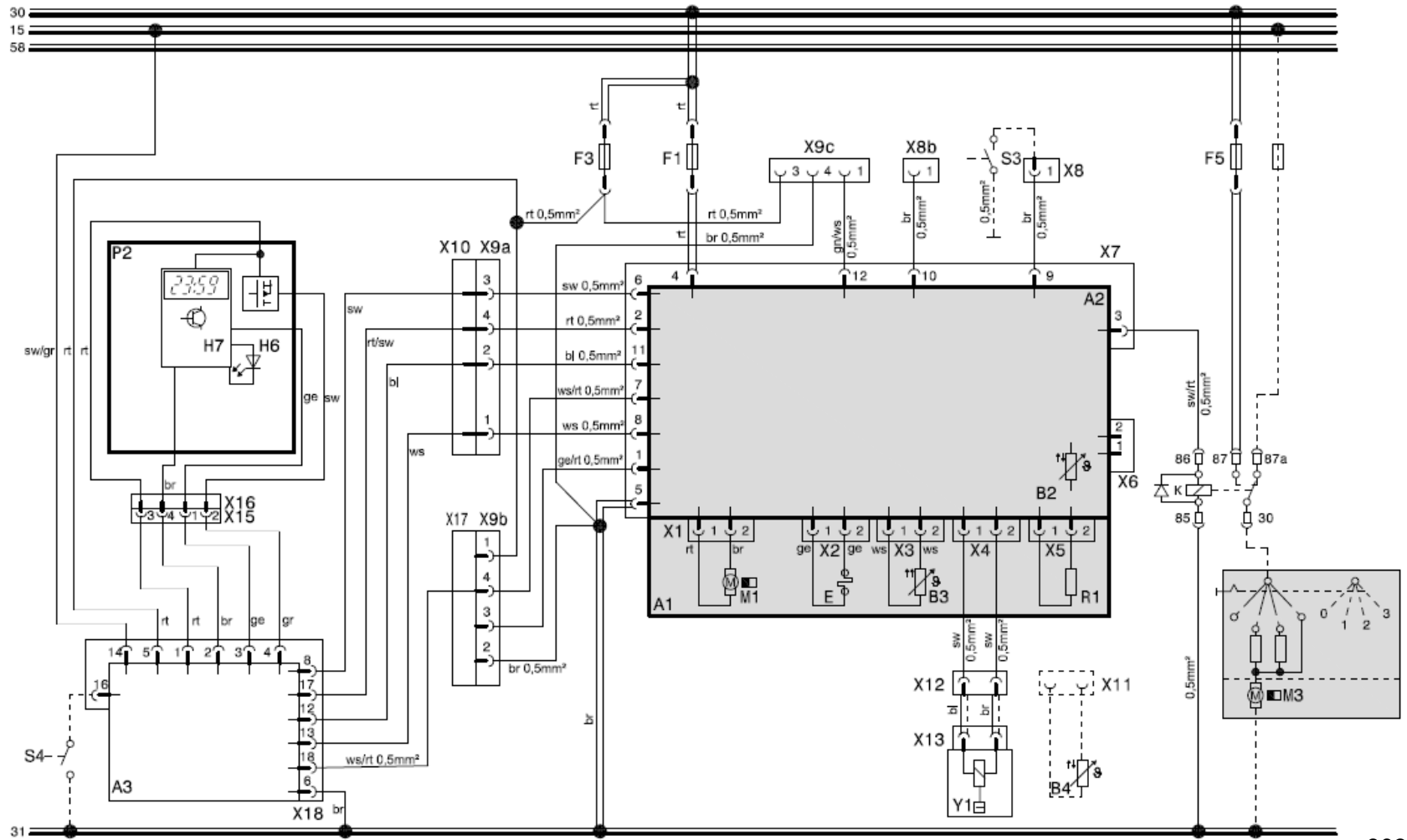
Click [here](#) for the X15-X16 pinout

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE



Click [here](#) for the wiring diagram

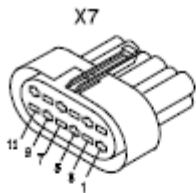
# AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE



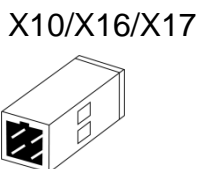
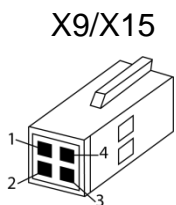
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Click [here](#) for more information

AT Evo 3900-5500 Analog ↔ Unibox ↔ MultiControl MAR RV ATE



- A2 Heater Control Unit
- A3 Unibox
- P2 MultiControl RV ATE
- X7 Connector heater



- X9(a) Connector
- X9(b) Connector
- X10 Connector
- X11 Connector external temperature sensor (version < 2017)



- X15 Connector
- X16 Connector MultiControl RV ATE
- X17 Connector
- X18 Connector Unibox

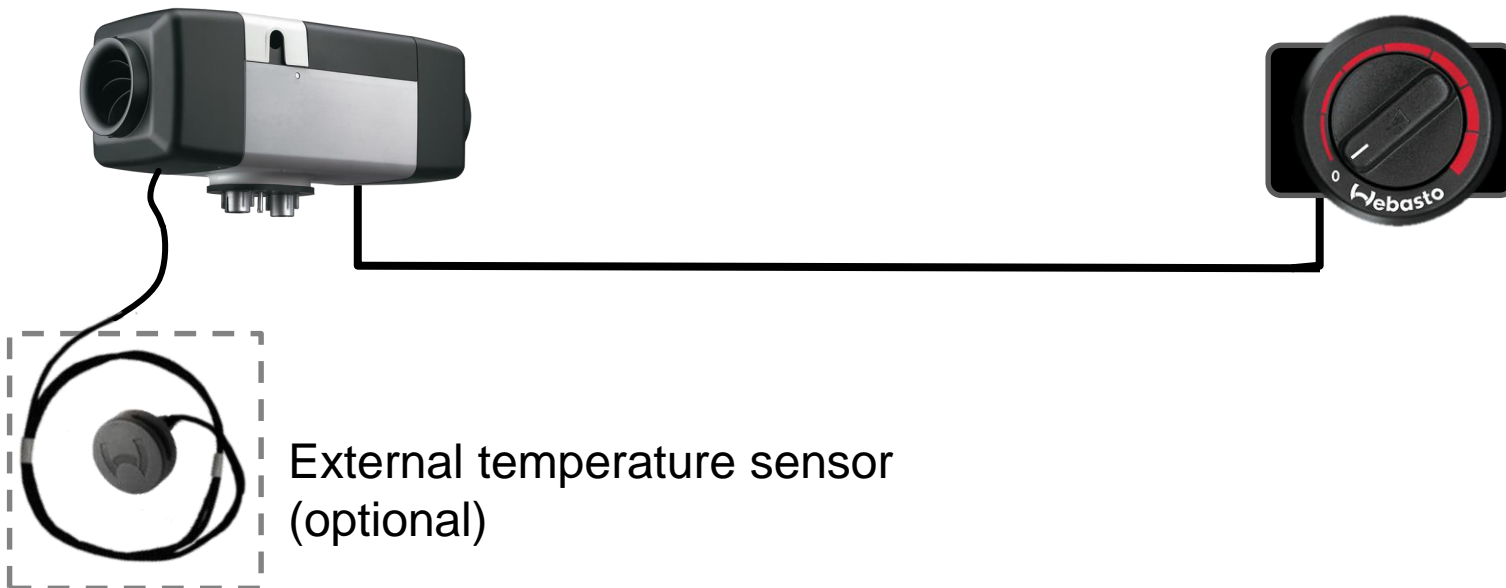


Note: When the optional temperature sensor is used, the fixed resistance R1 in X5 is replaced by B4.

## AT Evo 40 / 55 Analog ↔ Rotary Switch

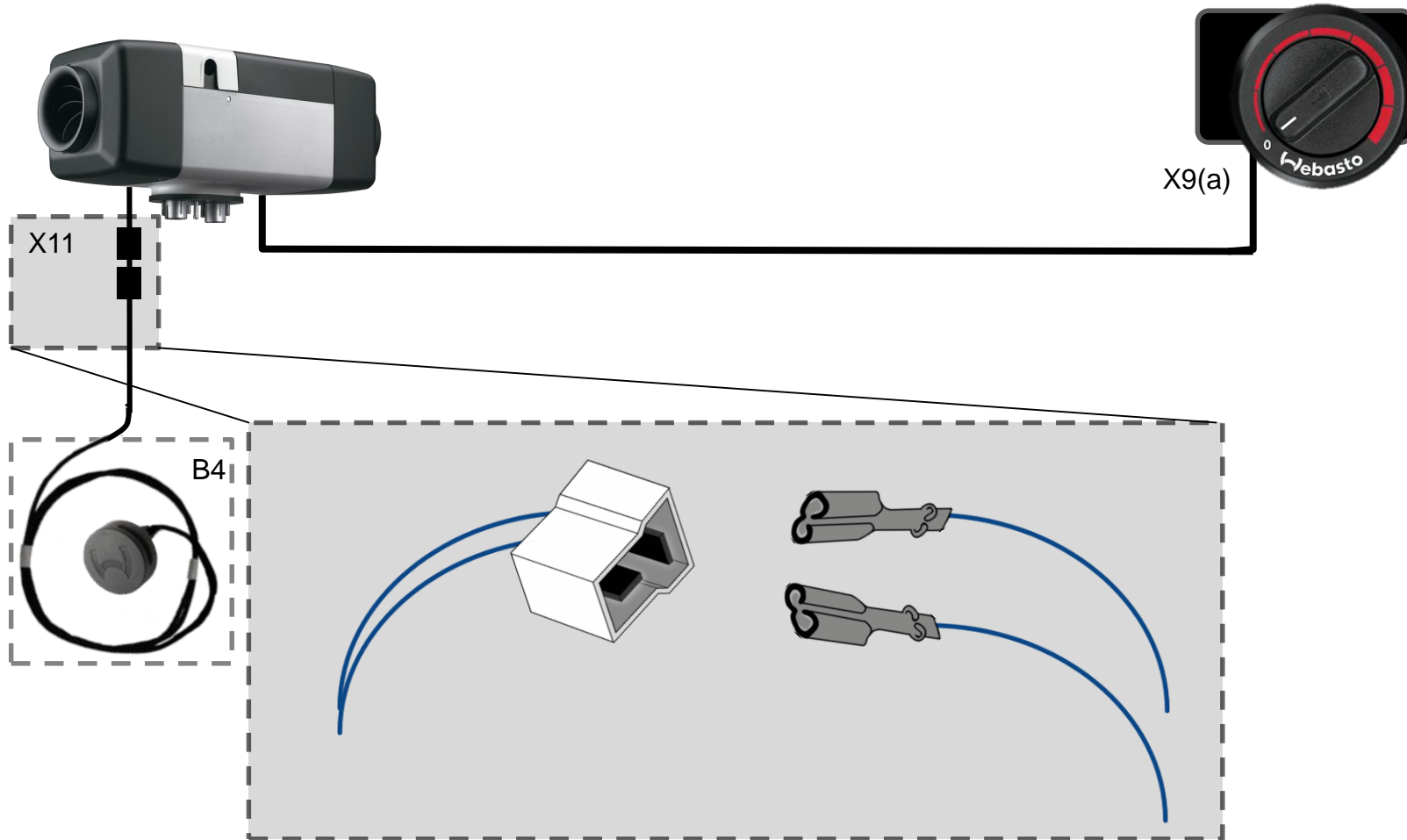
Air Top Evo 40 / 55 Analog

Rotary Switch



Click [here](#) for the pinout

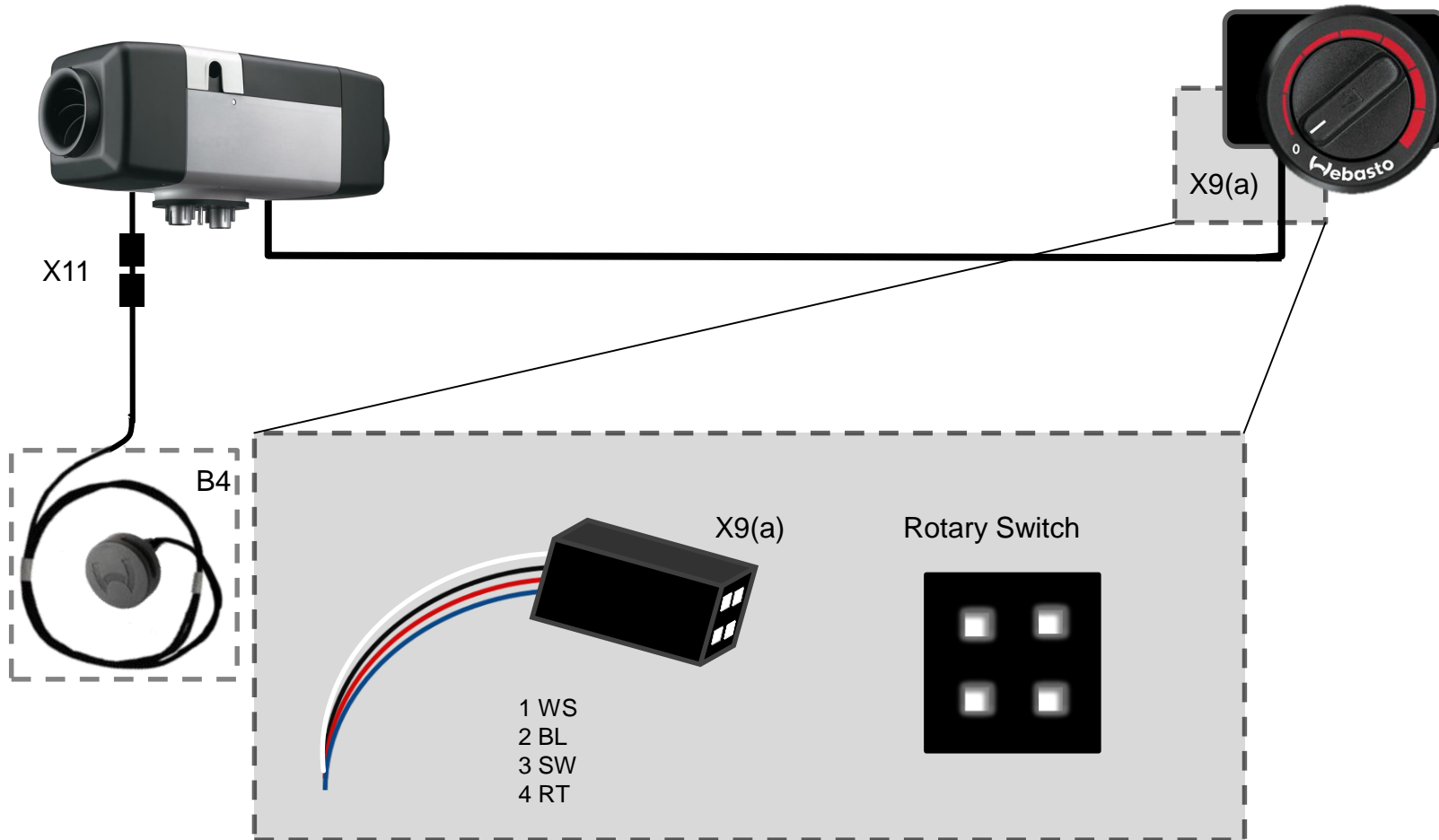
# AT Evo 40 / 55 Analog Rotary Switch



Click [here](#) for the X9(a) pinout

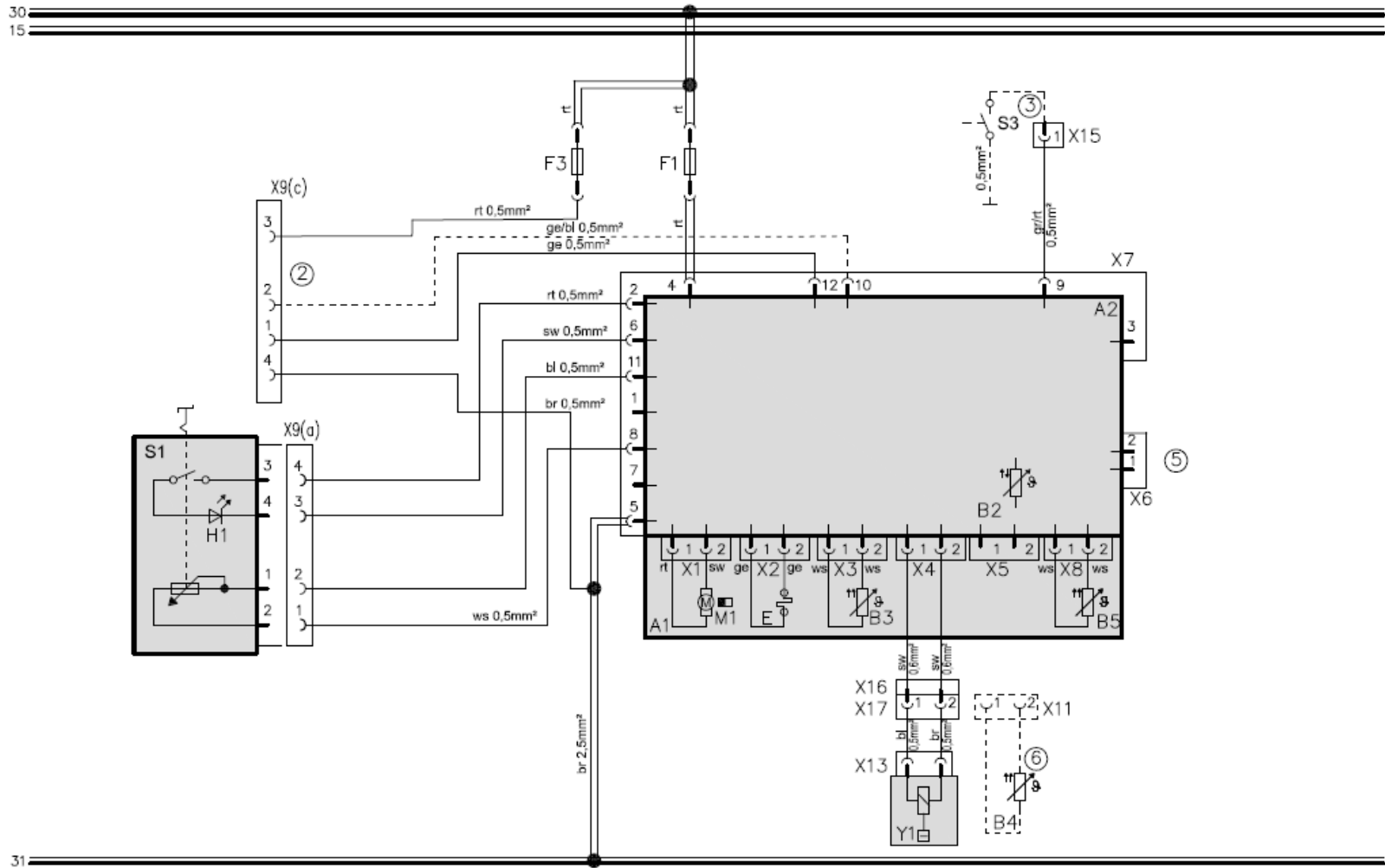


# AT Evo 40 / 55 Analog ↔ Rotary Switch



Click [here](#) for the wiring diagram

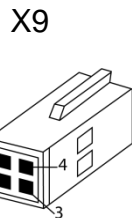
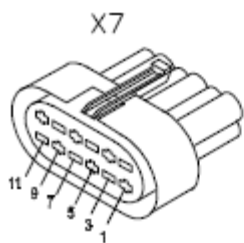
# AT Evo 40 / 55 Analog ↔ Rotary Switch



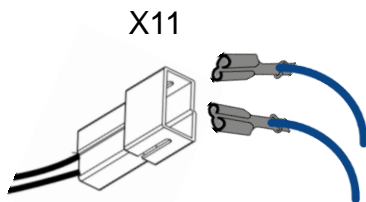
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Click [here](#) for more information

## AT Evo 40 / 55 Analog Rotary Switch



A2	Heater Control Unit
S1	Rotary switch
X7	Connector heater
X9(a)	Connector Rotary switch
X11	Connector external temperature sensor (version >2017)



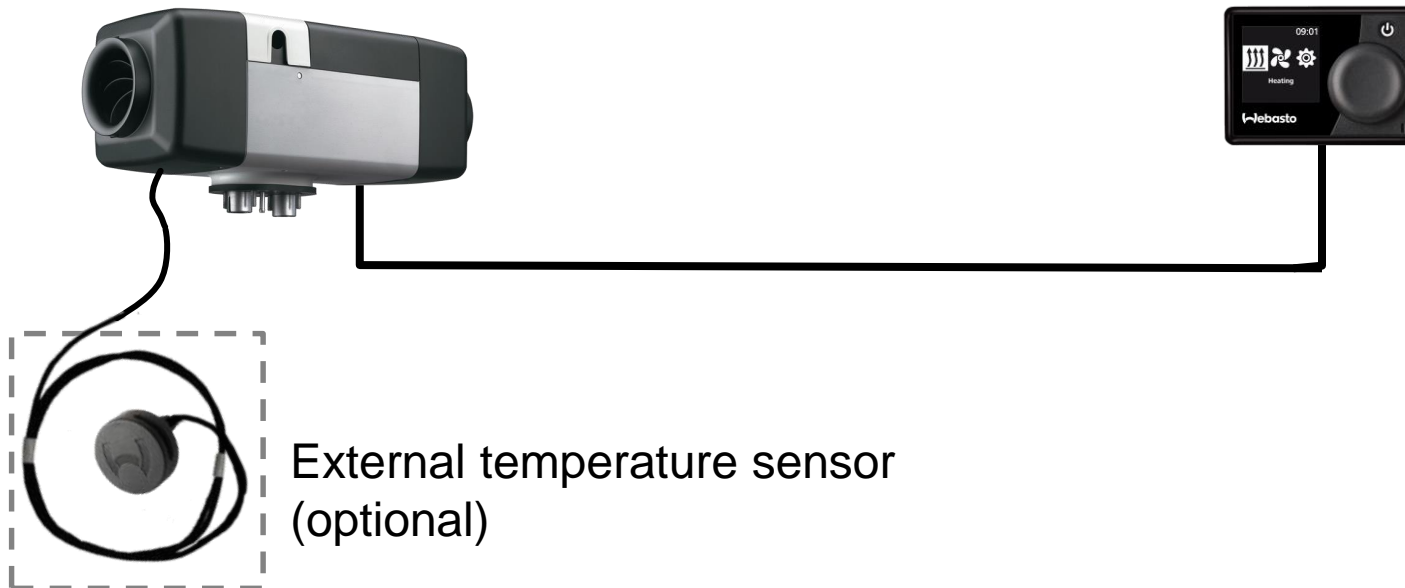
### Note:

- By default the connector X5 is not used on the AT Evo 40/55 and is closed with a rubber cap. When using the external temperature sensor B4, the heater automatically recognizes the connected sensor.

# AT Evo 40 / 55 W-bus ↔ SmartControl HD

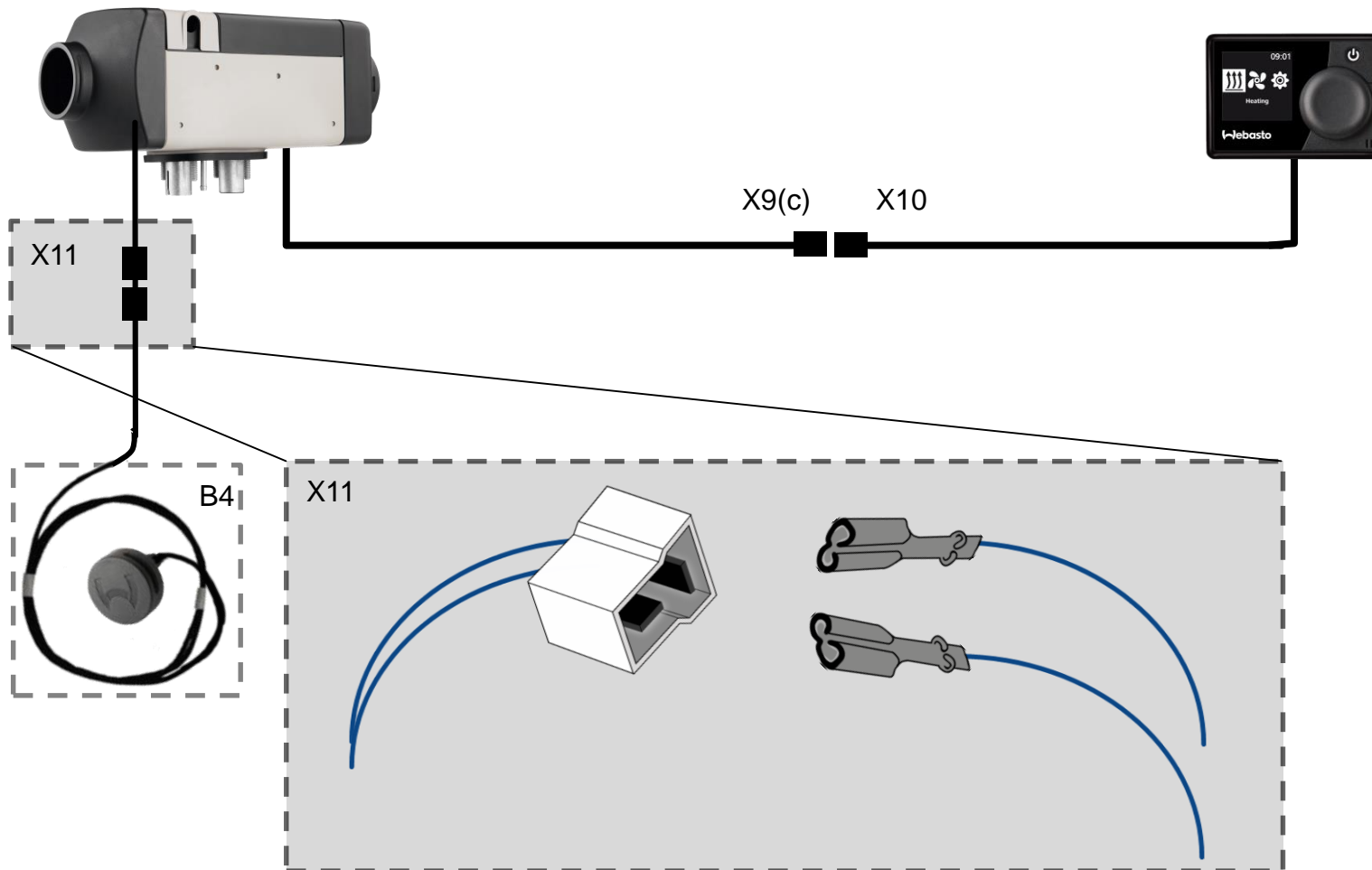
Air Top Evo 40 / 55 W-bus

SmartControl HD



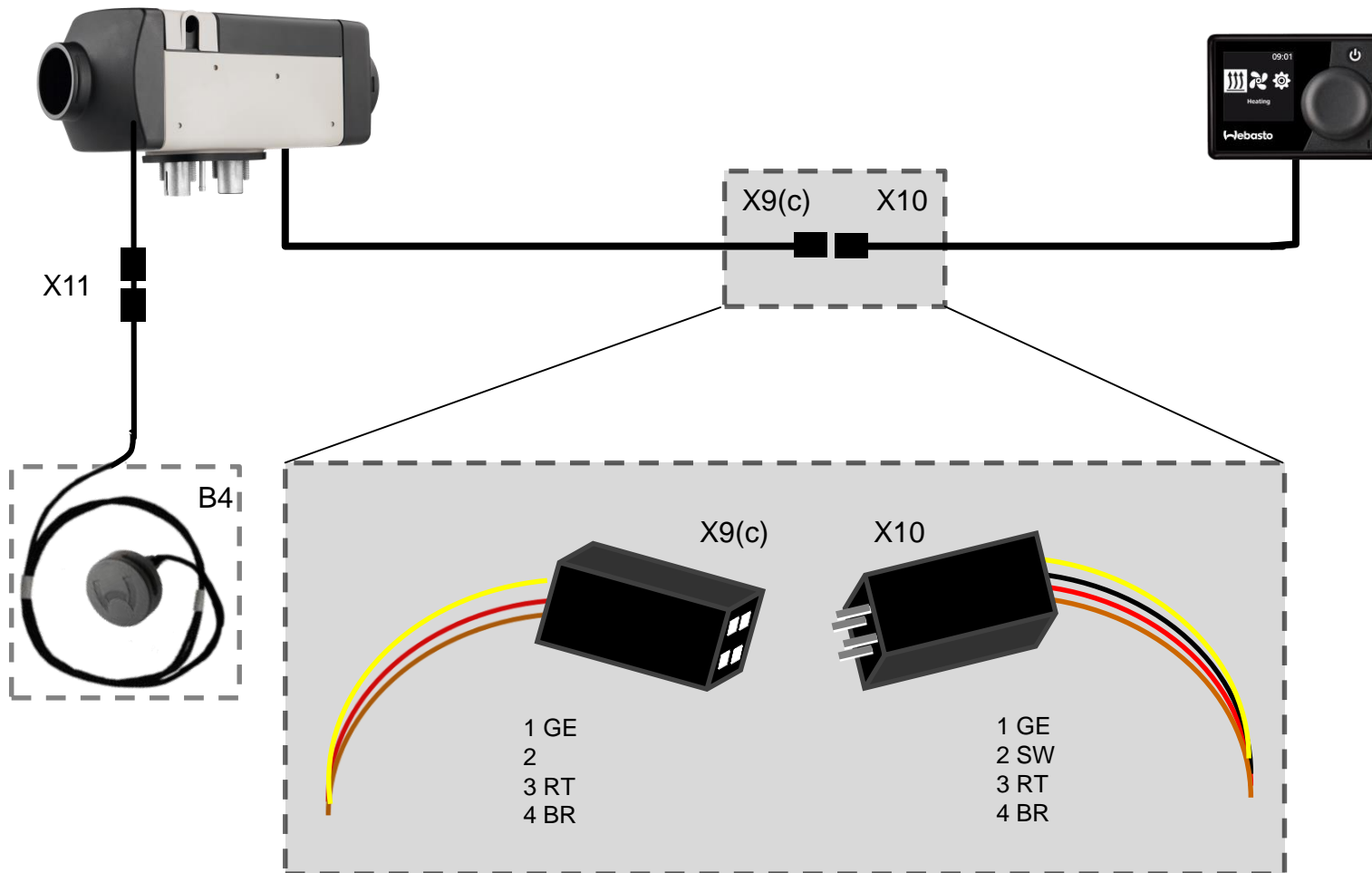
Click [here](#) for the pinout

# AT Evo 40 / 55 W-bus ↔ SmartControl HD



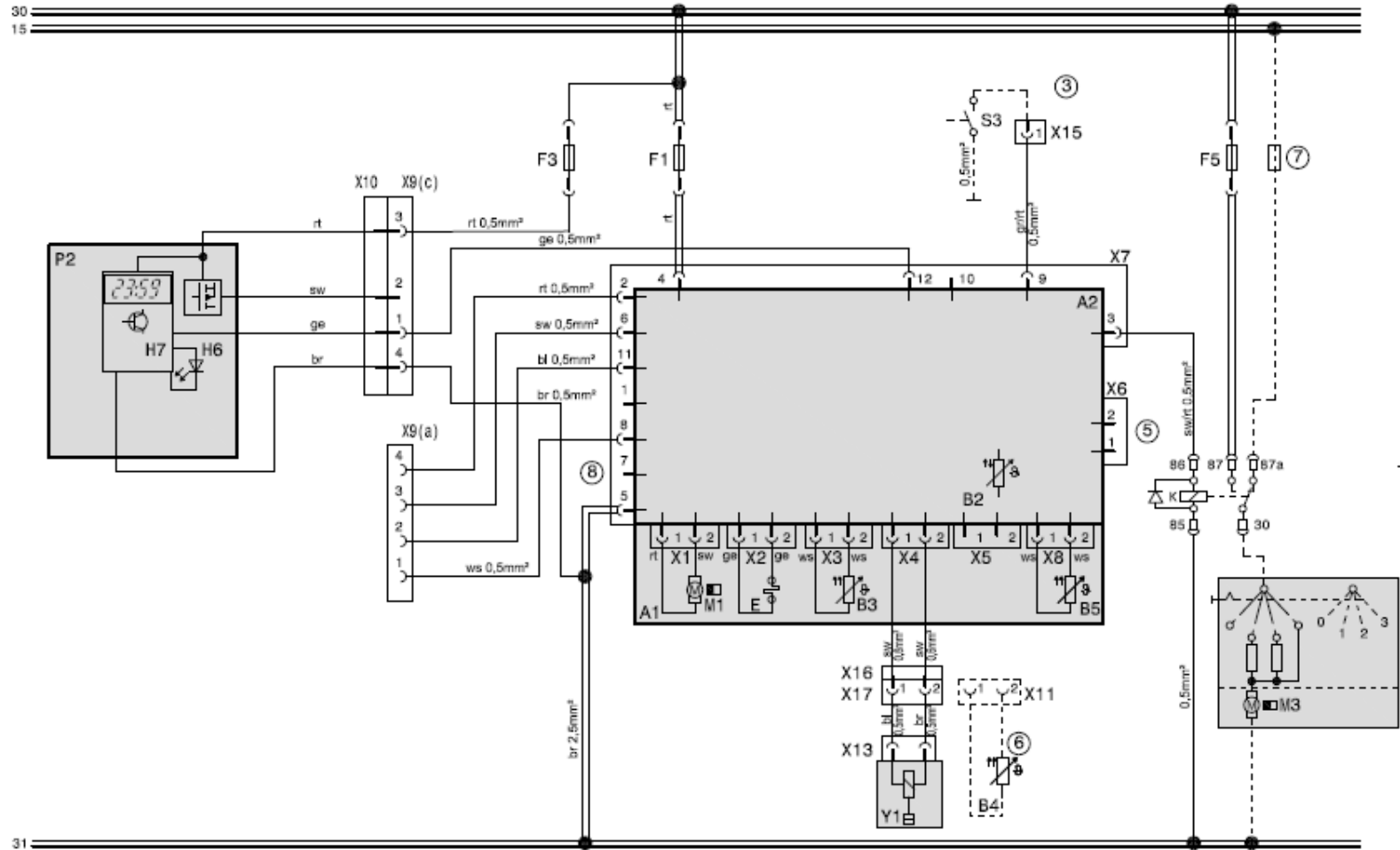
Click [here](#) for the X9(c)-X10 pinout

# AT Evo 40 / 55 W-bus ↔ SmartControl HD



Click [here](#) for the wiring diagram

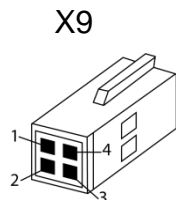
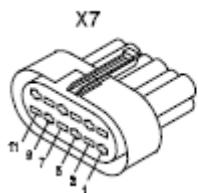
# AT Evo 40 / 55 W-bus ↔ SmartControl HD



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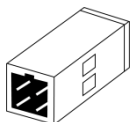
Click [here](#) for more information

## AT Evo 40 / 55 W-bus ↔ SmartControl HD

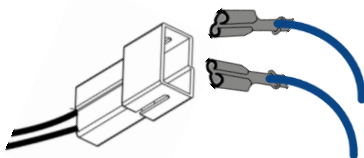


A2	Heater Control Unit
P2	SmartControl HD
X7	Connector Control Unit heater
X9(c)	Connector
X10	Connector SmartControl HD
X11	Connector External temperature sensor (version >2017)

X10



X11



### Note:

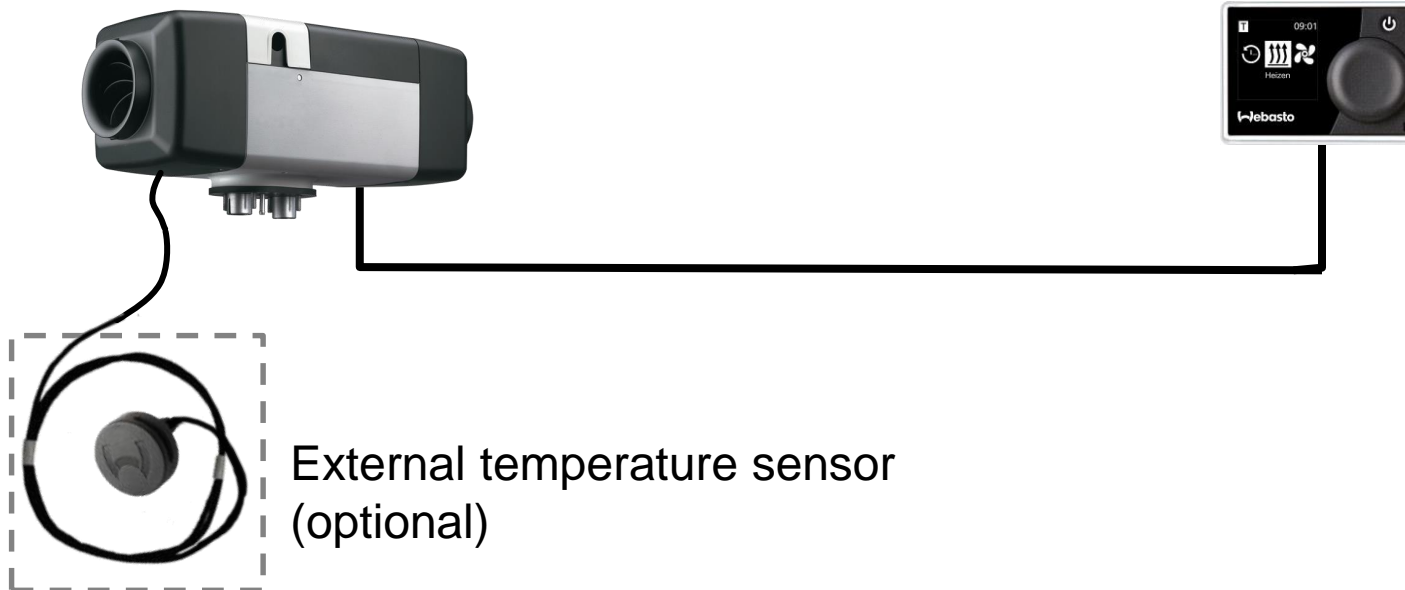
- By default the connector X5 is not used on the AT Evo 40/55 and is closed with a rubber cap. When using the external temperature sensor B4, the heater automatically recognizes the connected sensor.



# AT Evo 40 / 55 W-bus ↔ MultiControl HD

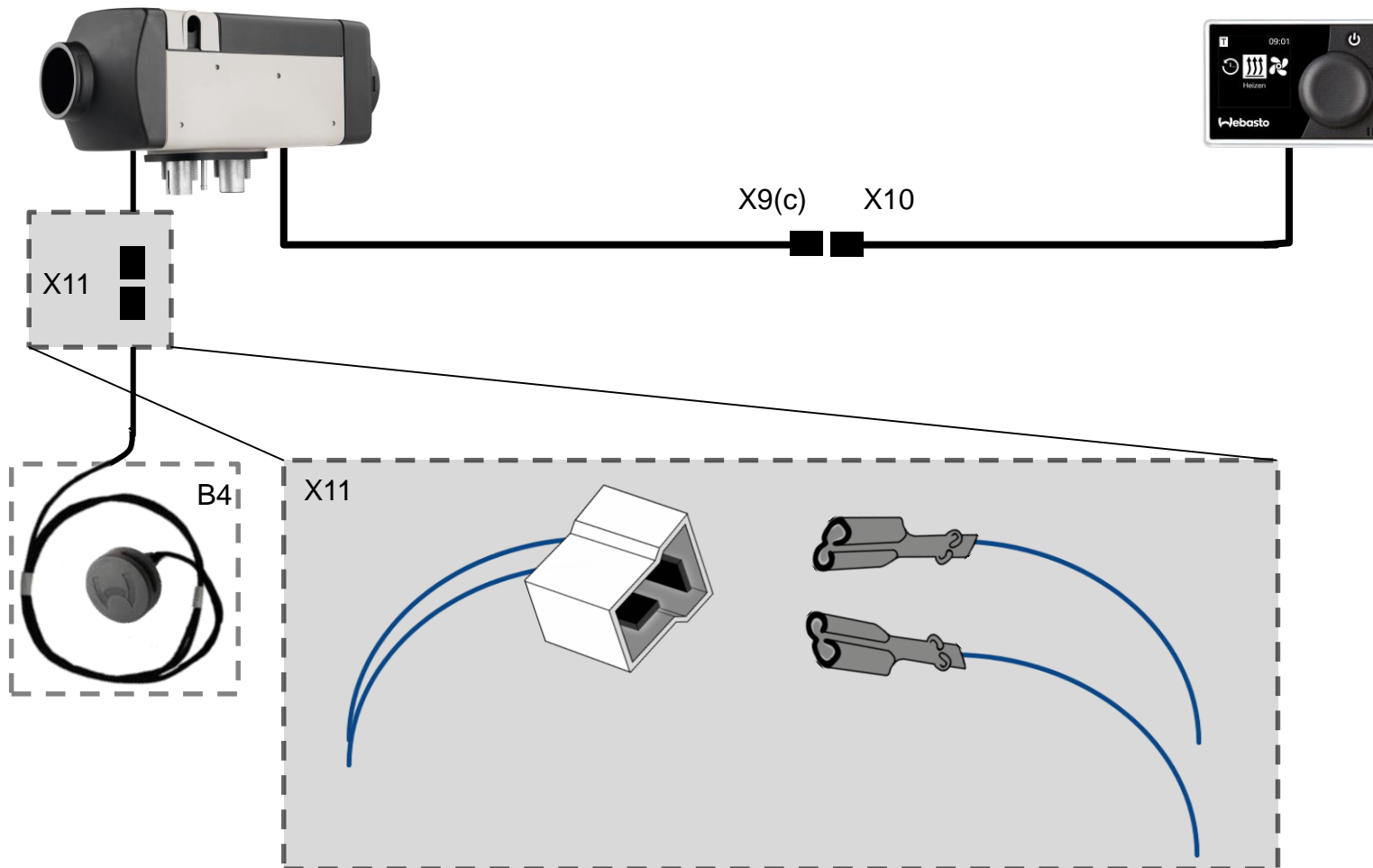
Air Top Evo 40 / 55 W-bus

MultiControl HD



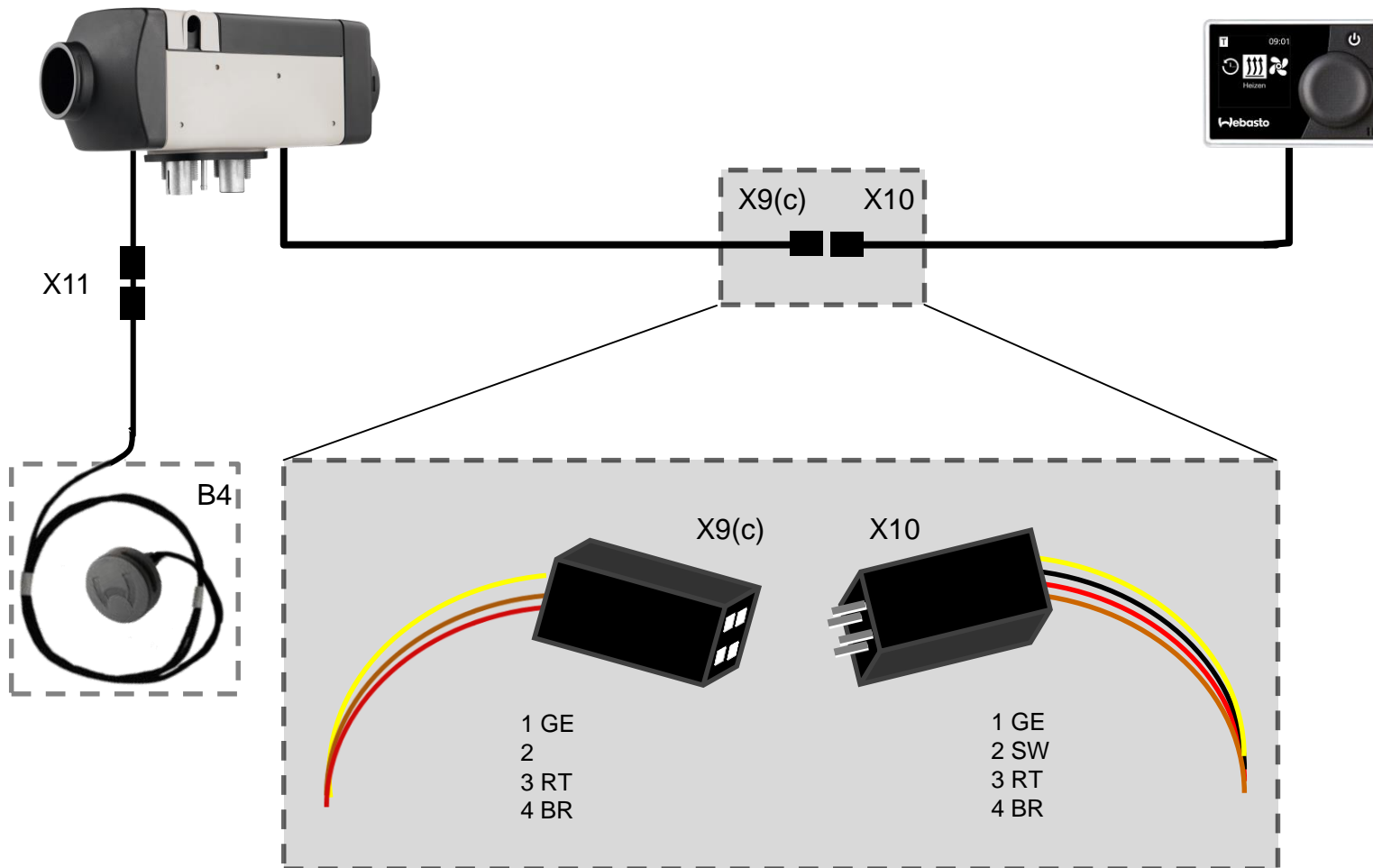
Click [here](#) for the pinout

# AT Evo 40 / 55 W-bus ↔ MultiControl HD



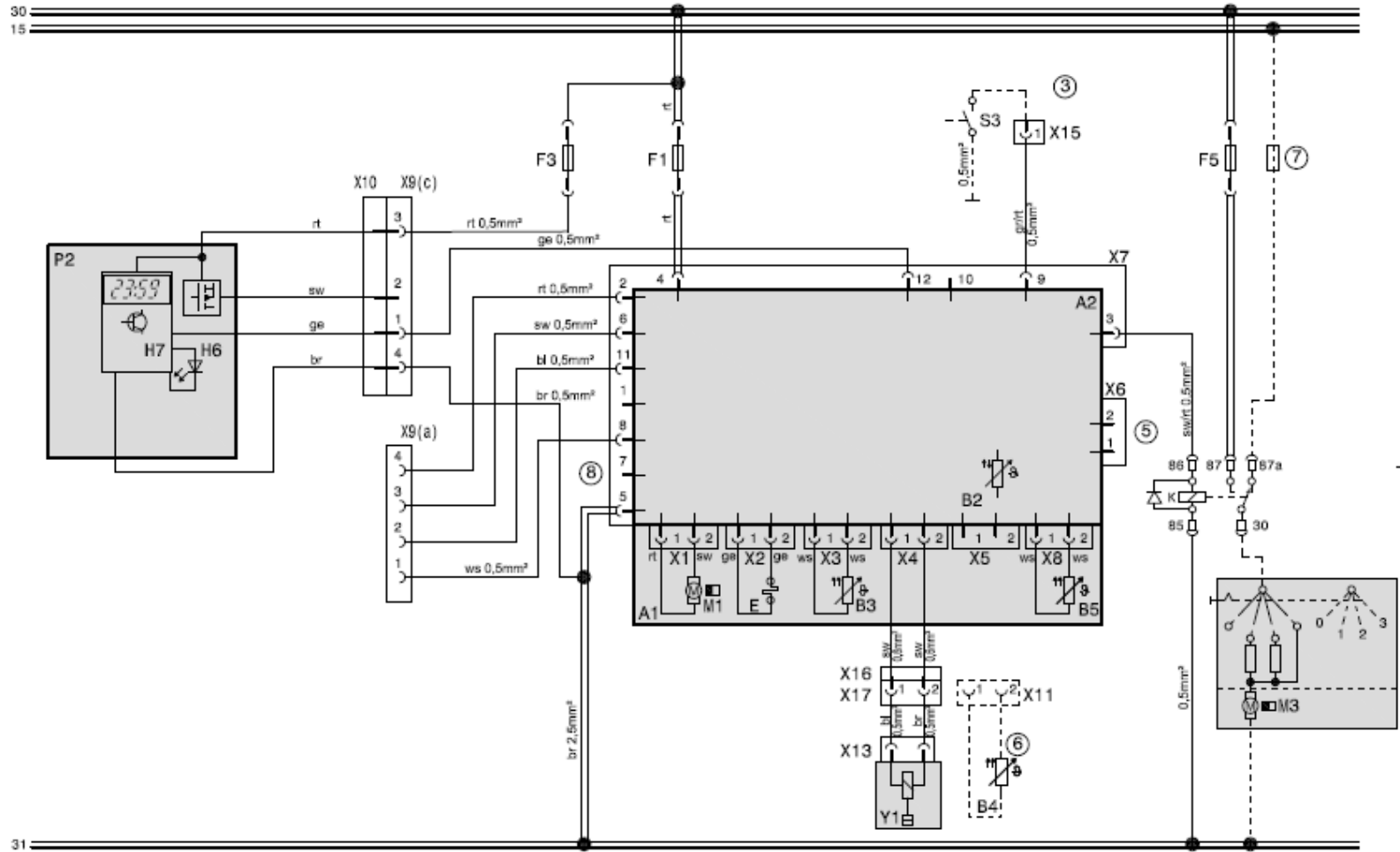
Click [here](#) for the X9(c)-X10

# AT Evo 40 / 55 W-bus ↔ MultiControl HD



Click [here](#) for the wiring diagram

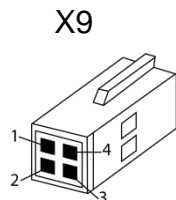
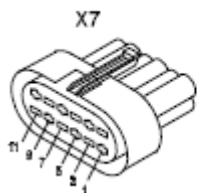
# AT Evo 40 / 55 W-bus ↔ MultiControl HD



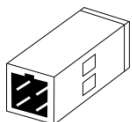
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Click [here](#) for more information

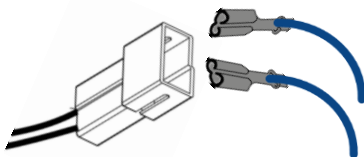
## AT Evo 40 / 55 W-bus ↔ MultiControl HD



X10



X11



A2	Heater Control Unit
P2	MultiControl HD
X7	Connector Control Unit heater
X9(c)	Connector
X10	Connector MultiControl HD
X11	Connector external temperature sensor (version >2017)

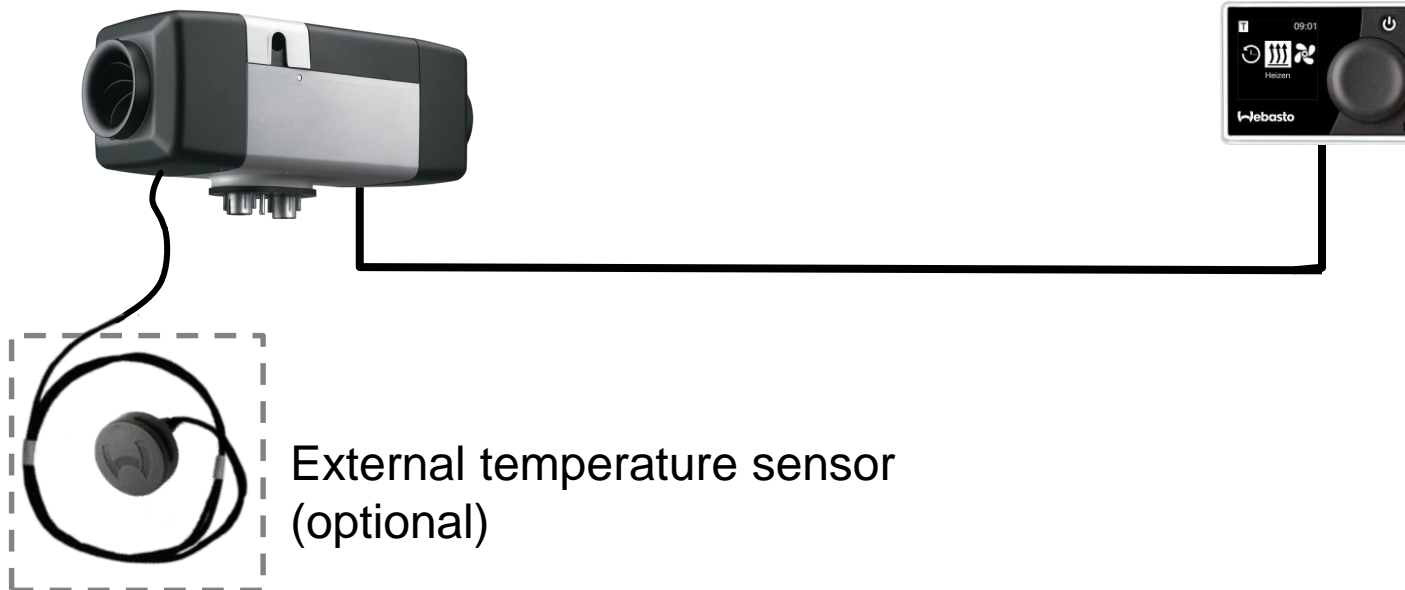
### Note:

- By default the connector X5 is not used on the AT Evo 40/55 and is closed with a rubber cap. When using the external temperature sensor B4, the heater automatically recognizes the connected sensor.

# AT Evo 40 / 55 W-bus ↔ MultiControl MAR RV ATE

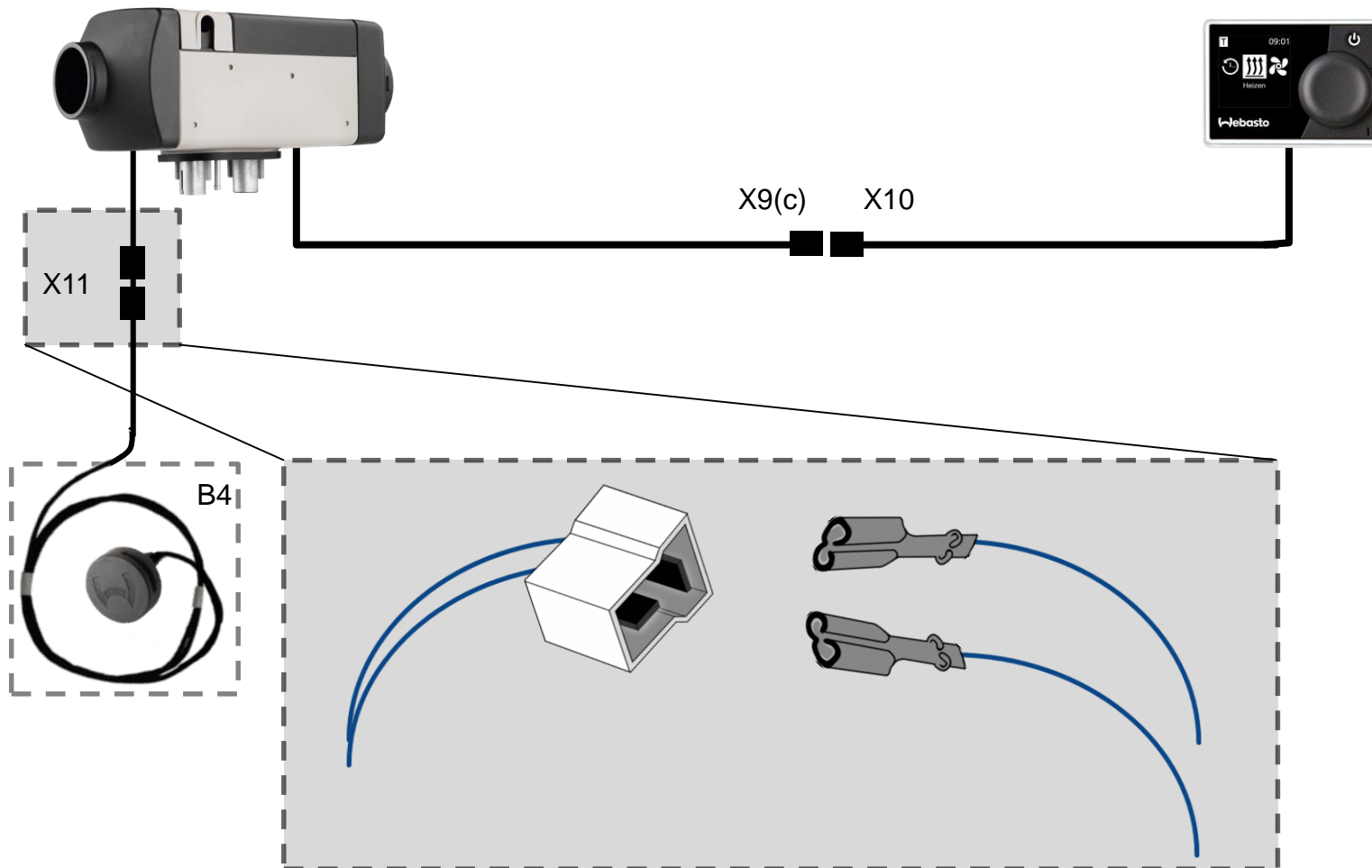
Air Top Evo 40 / 55 W-bus

MultiControl MAR RV ATE



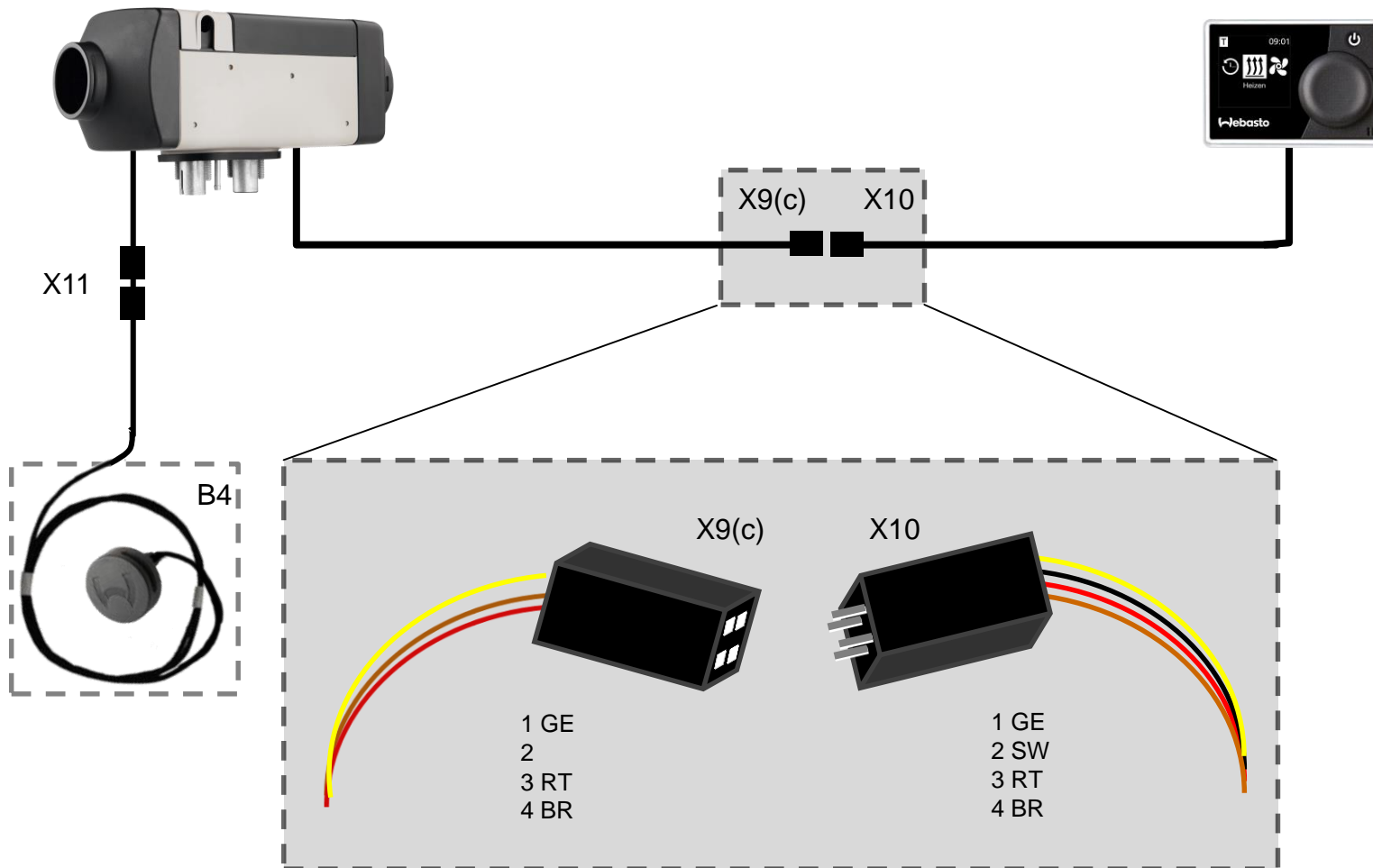
Click [here](#) for the pinout

# AT Evo 40 / 55 W-bus ↔ MultiControl MAR RV ATE



Click [here](#) for the wiring diagram

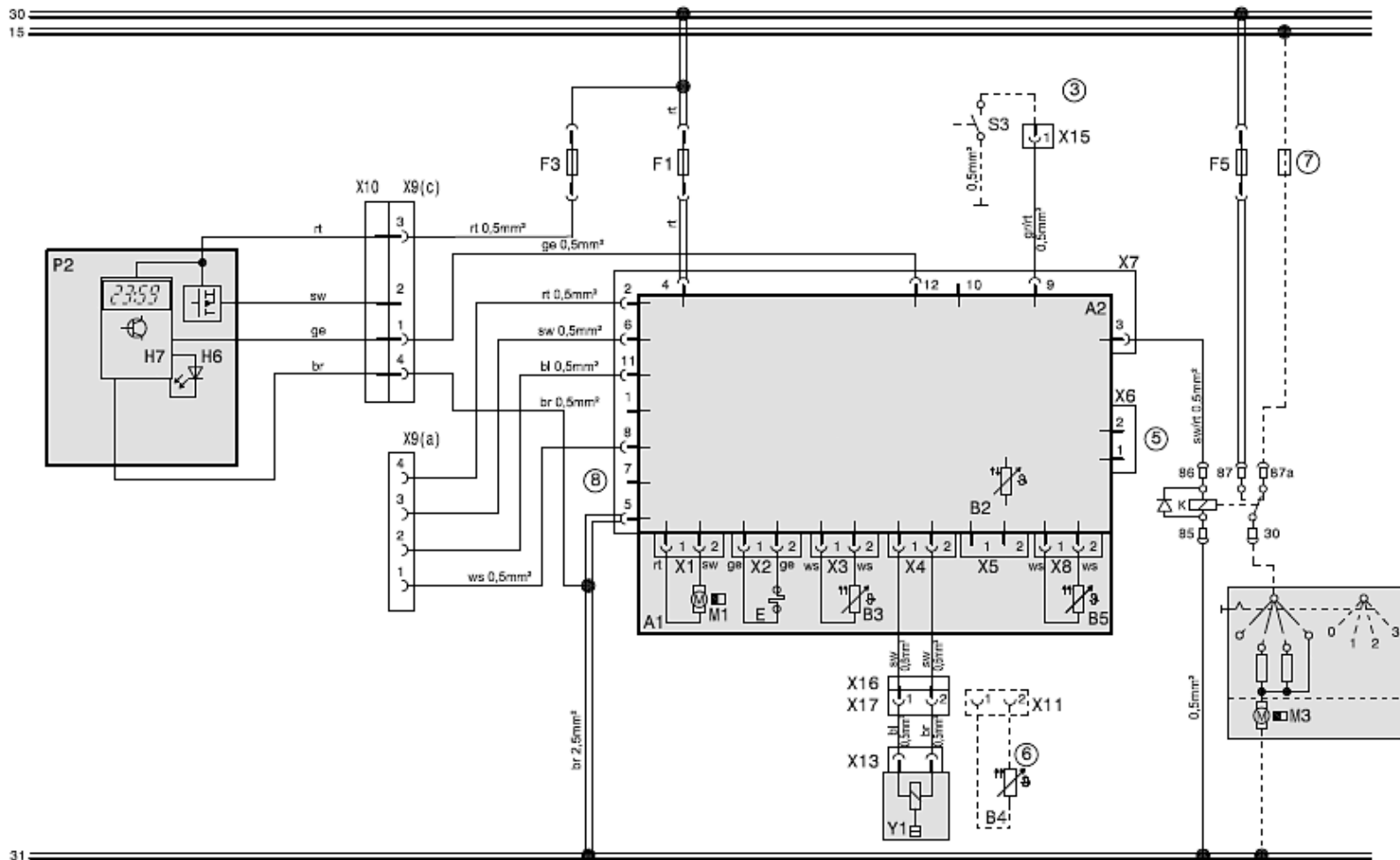
# AT Evo 40 / 55 W-bus ↔ MultiControl MAR RV ATE



Click [here](#) for the wiring diagram



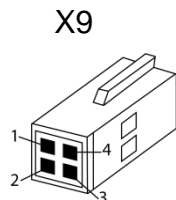
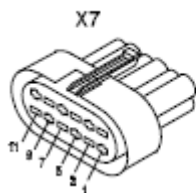
# AT Evo 40 / 55 W-bus ↔ MultiControl MAR RV ATE



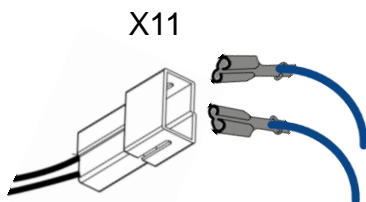
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Click [here](#) for more information

## AT Evo 40 / 55 W-bus ↔ MultiControl MAR RV ATE



A2	Heater Control Unit
P2	MultiControl RV
X7	Connector Control Unit heater
X9(c)	Connector
X10	Connector MultiControl RV
X11	Connector external temperature sensor (version >2017)



### Note:

- By default the connector X5 is not used on the AT Evo 40/55 and is closed with a rubber cap. When using an external temperature sensor, the heater automatically recognizes the connected sensor B4.

Thermo 90 ST ↔ MultiControl MAR RV TT

Thermo 90 ST

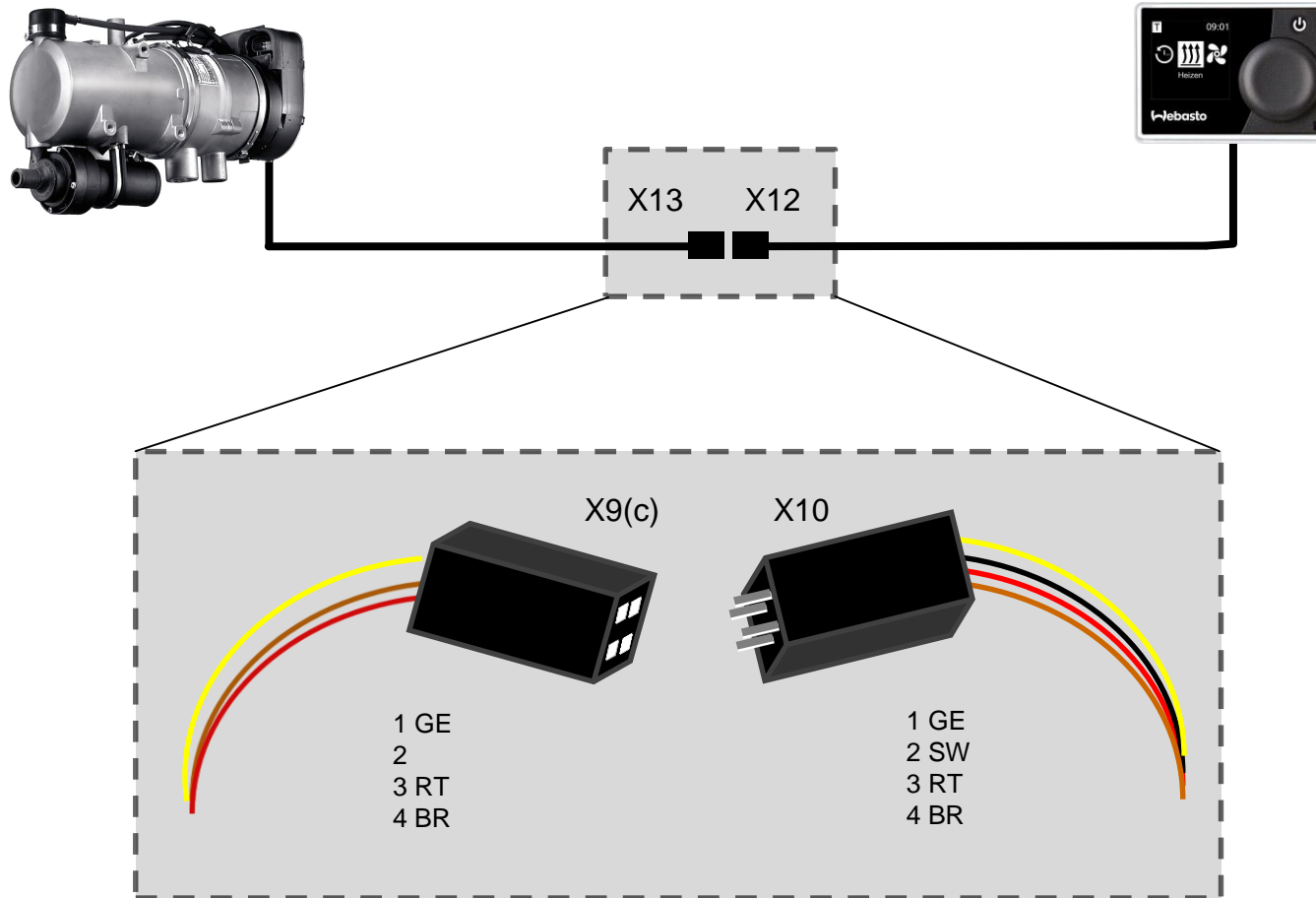


MultiControl MAR RV TT



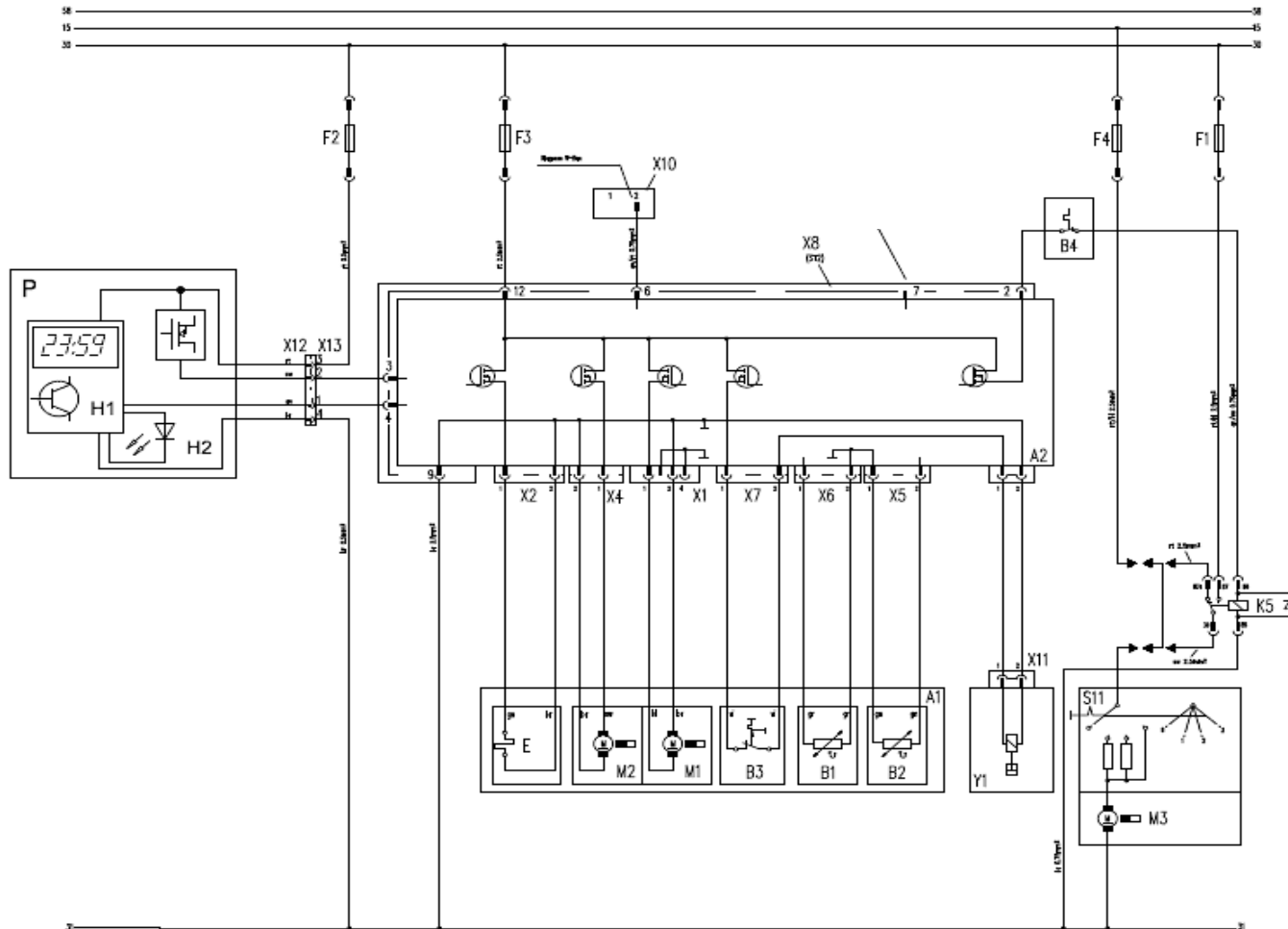
Click [here](#) for the pinout

# Thermo 90 ST ↔ MultiControl MAR RV TT



Click [here](#) for the wiring diagram

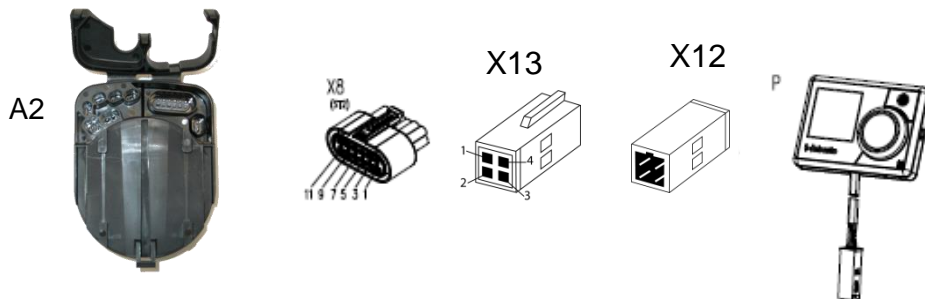
# Thermo 90 ST ↔ MultiControl MAR RV TT



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# Thermo 90 ST ↔ MultiControl MAR RV TT



- A2 Heater Control Unit
- P MultiControl RV
- X8 Connector Control Unit heater
- X12 Connector MultiControl RV
- X13 Connector MultiControl RV

Thermo 90 ST ↔ MultiControl HD

Thermo 90 ST

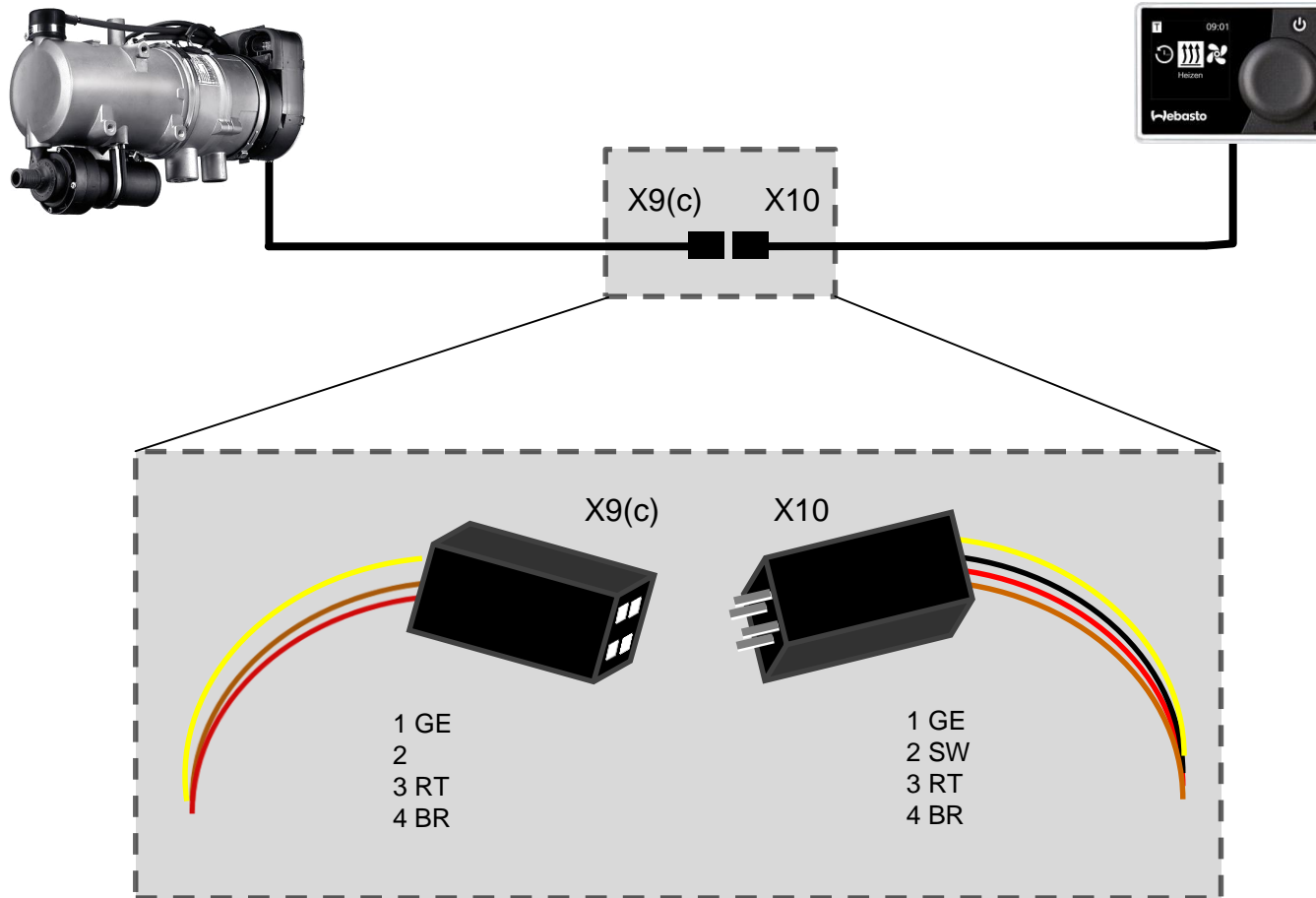


MultiControl HD



Click [here](#) for the pinout

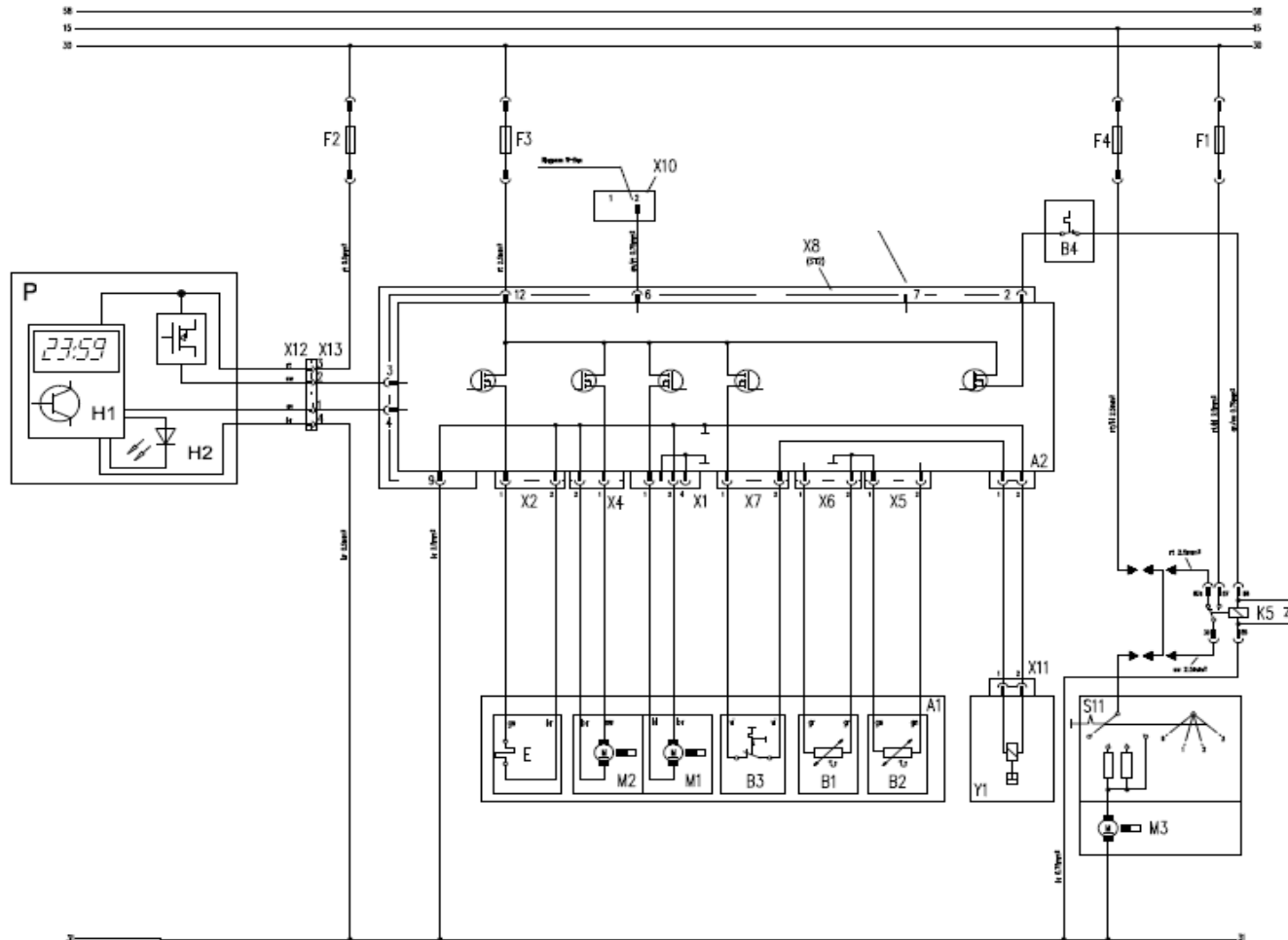
# Thermo 90 ST ↔ MultiControl HD



Click [here](#) for the wiring diagram



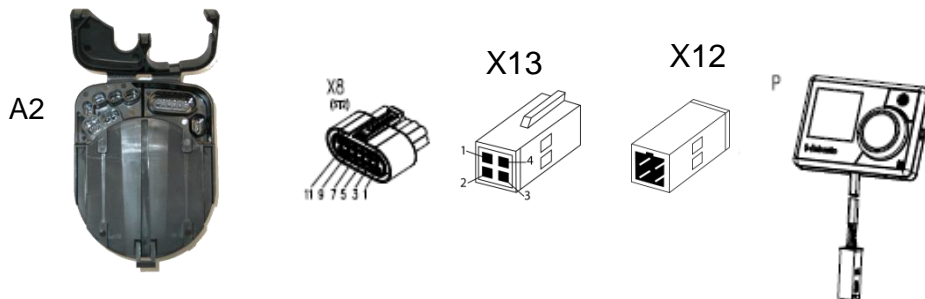
# Thermo 90 ST ↔ MultiControl HD



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# Thermo 90 ST ↔ MultiControl HD



- A2 Heater Control Unit
- P MultiControl HD
- X8 Connector Control Unit heater
- X12 Connector MultiControl HD
- X13 Connector MultiControl HD

Thermo 90 ST ↔ SmartControl HD

Thermo 90 ST

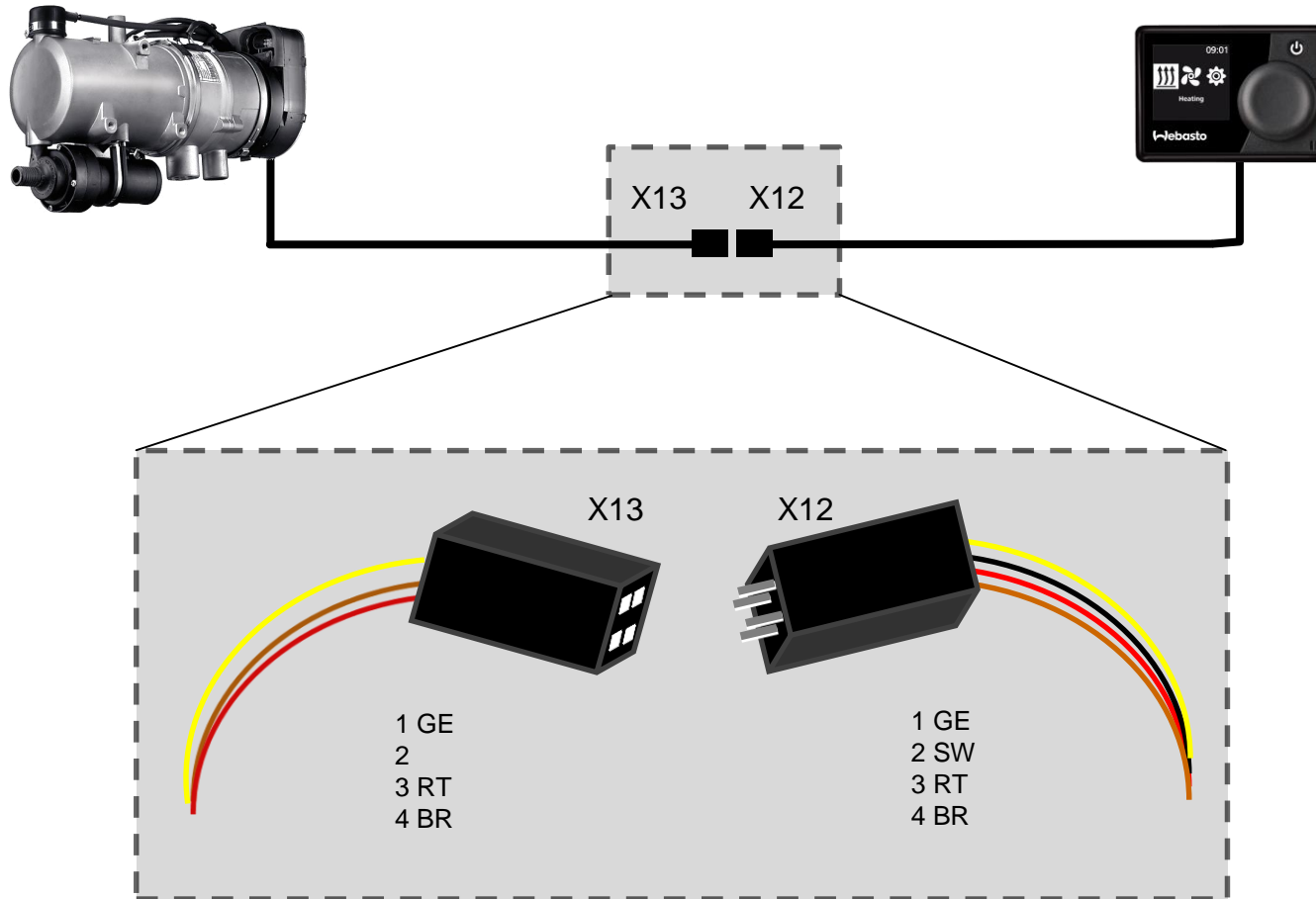


SmartControl HD



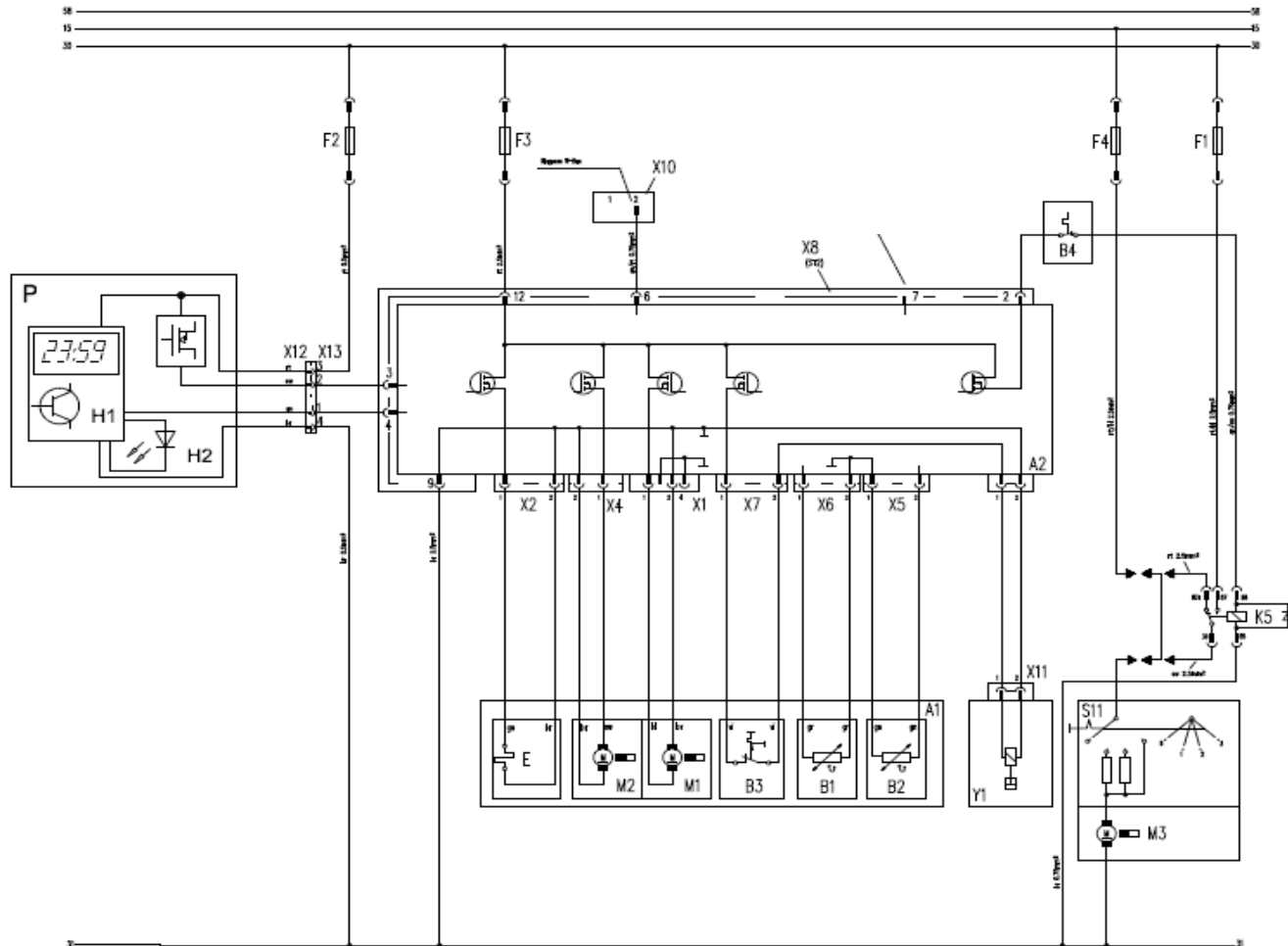
Click [here](#) for the pinout

# Thermo 90 ST ↔ SmartControl HD



Click [here](#) for the wiring diagram

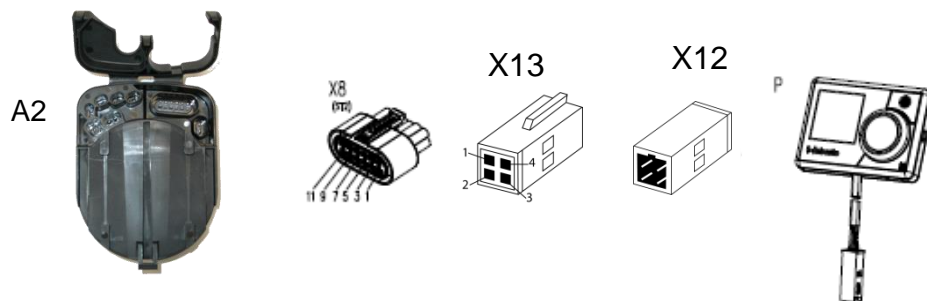
# Thermo 90 ST ↔ SmartControl HD



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# Thermo 90 ST ↔ SmartControl HD



- A2 Heater Control Unit
- P SmartControl HD
- X8 Connector Control Unit heater
- X12 Connector SmartControl HD
- X13 Connector SmartControl HD

# Thermo Top Evo W-bus ↔ ThermoCall TC4 Advanced

Thermo Top Evo W-bus



W-bus Temperature sensor

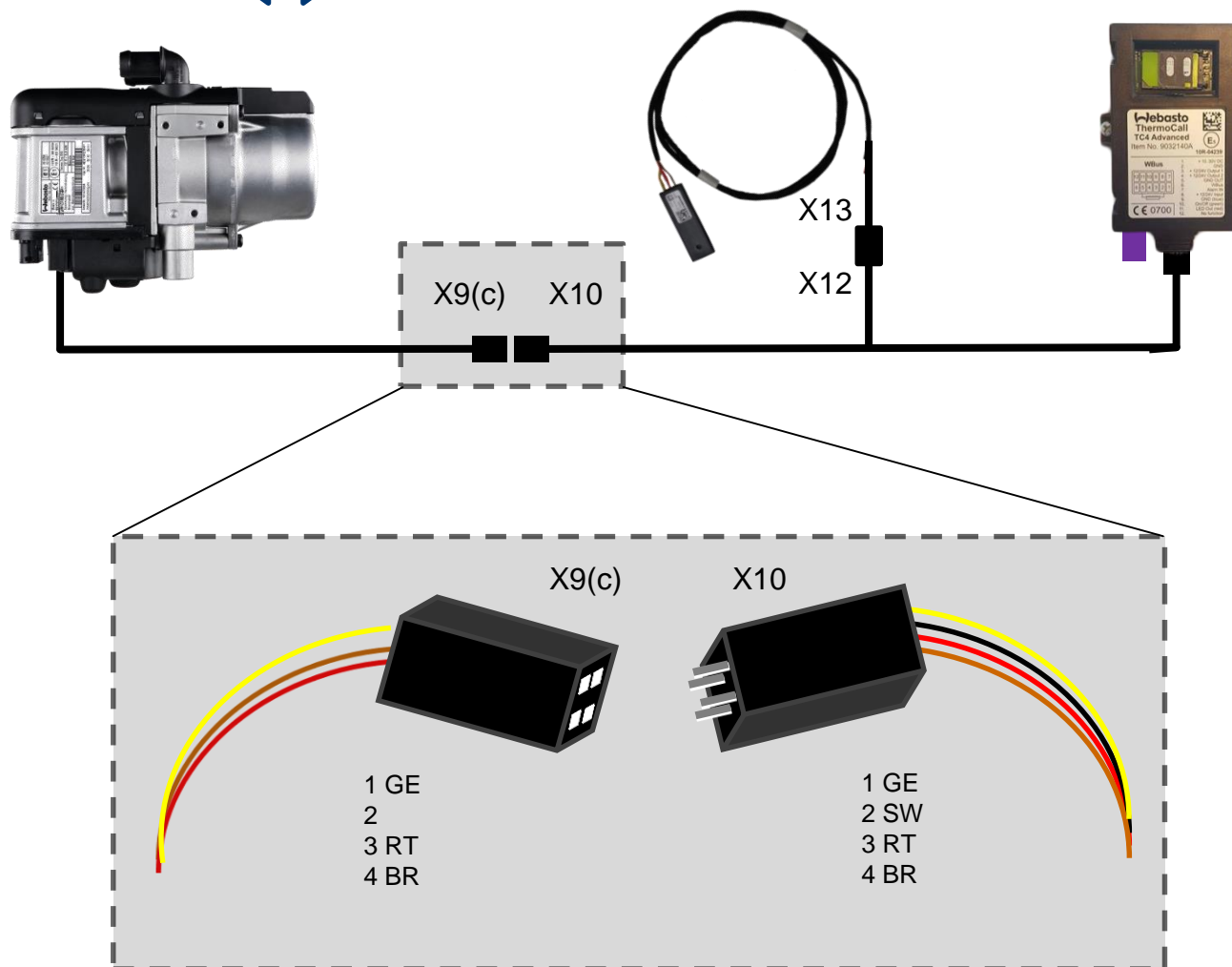


ThermoCall TC4 Advanced



Click [here](#) for the pinout

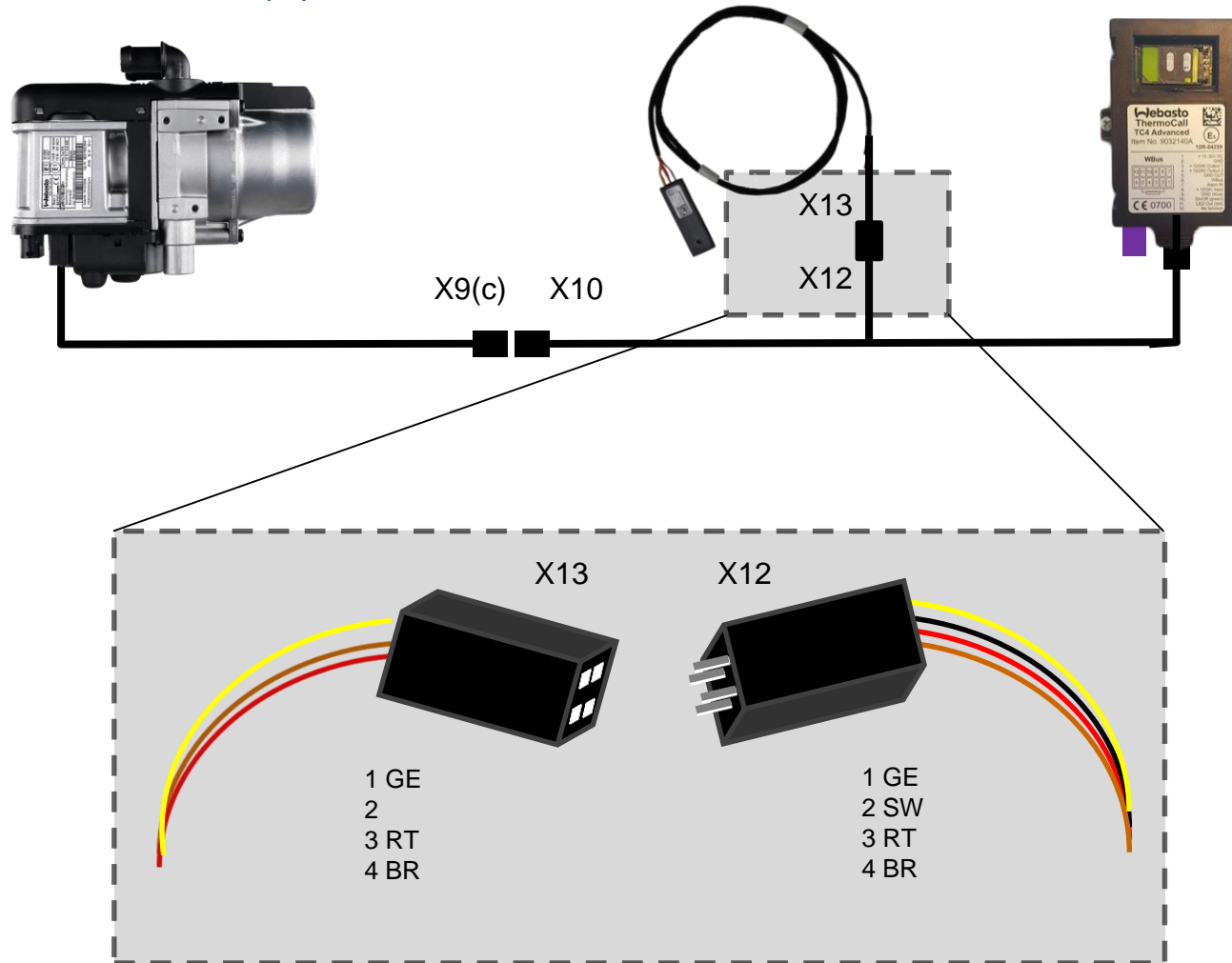
## Thermo Top Evo W-bus ↔ ThermoCall TC4 Advanced



Click [here](#) for the X13-X12 pinout



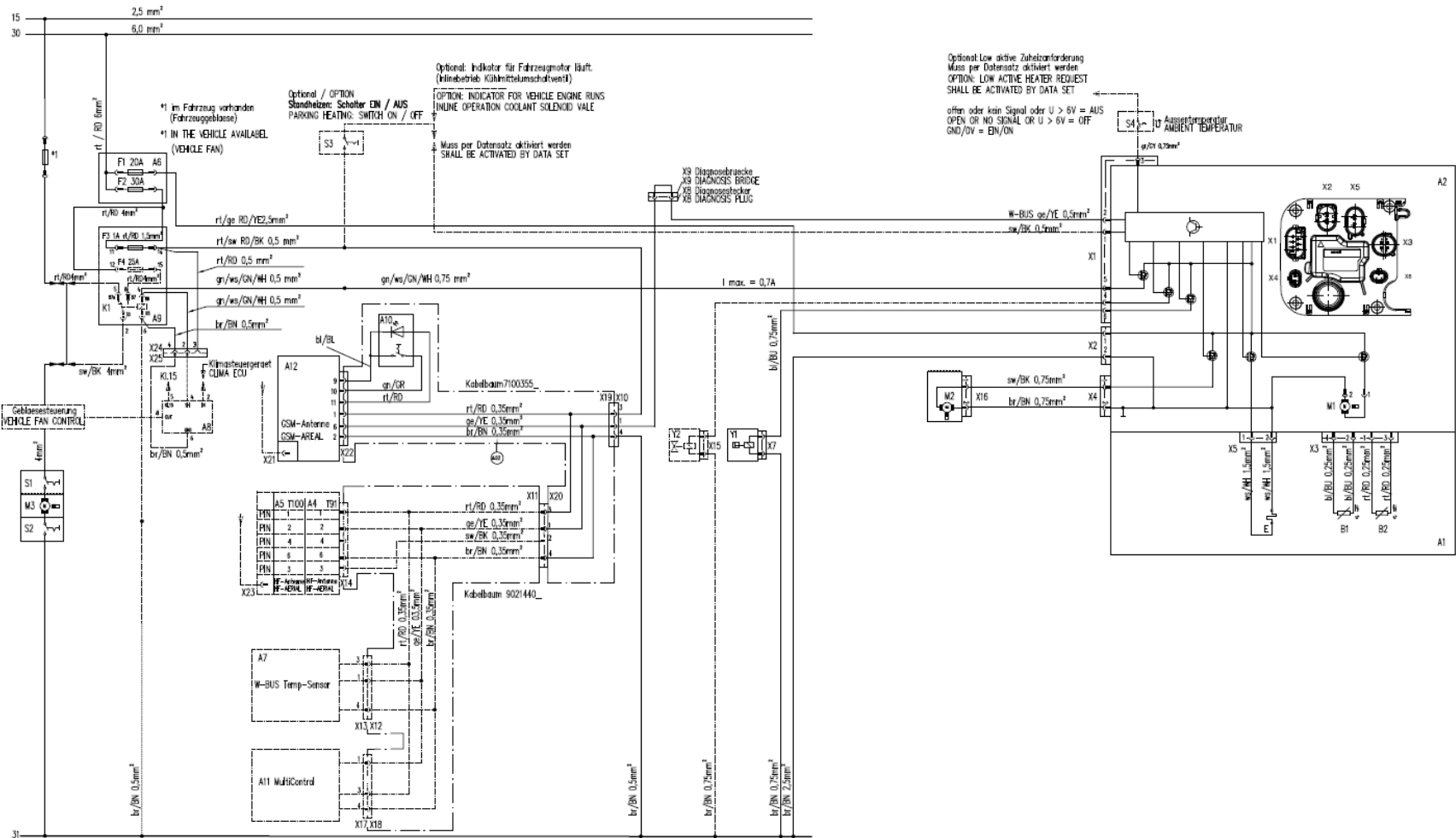
## Thermo Top Evo W-bus ↔ ThermoCall TC4 Advanced



Click [here](#) for the wiring diagram



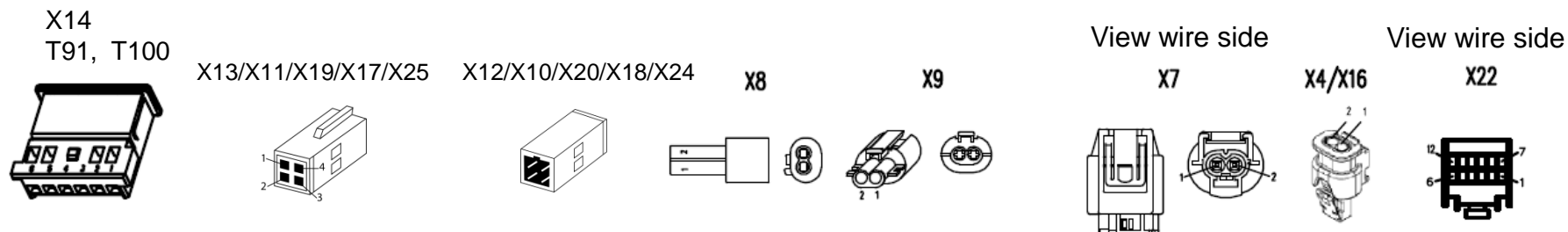
# Thermo Top Evo W-bus ↔ ThermoCall TC4 Advanced



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Click [here](#) for more information

## Thermo Top Evo W-bus ↔ ThermoCall TC4 Advanced



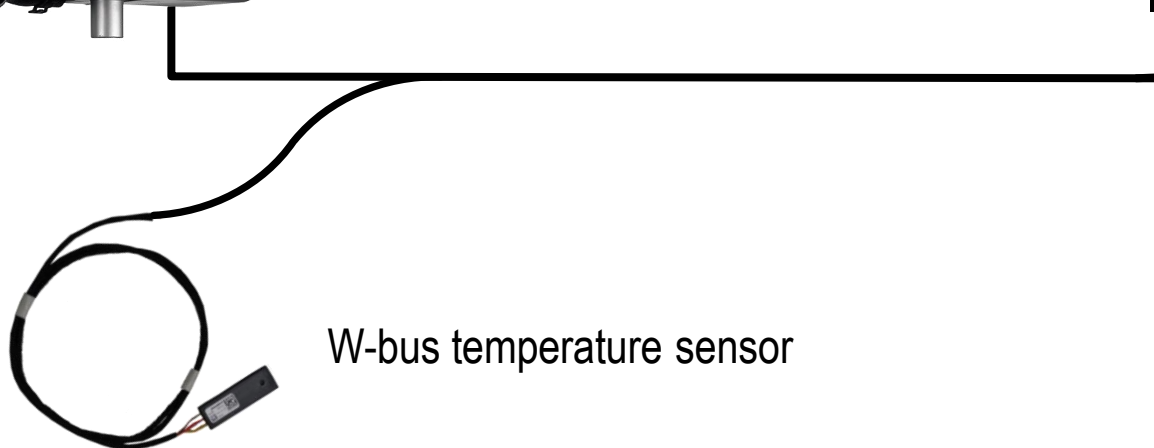
- A2 Heater Control Unit
- A7 W-bus temperature sensor
- A12 Receiver TC4 Advanced
- X1 Connector Control Unit Heater
- X22 Connector Receiver TC4 Advanced
- X13 Connector W-bus temperature sensor
- X18 Connector
- X11 Connector
- X20 Connector
- X19 Connector
- X10 Connector

## Thermo Top Z/E/C ↔ ThermoCall TC4 Advanced

Thermo Top Z/E/C Analog



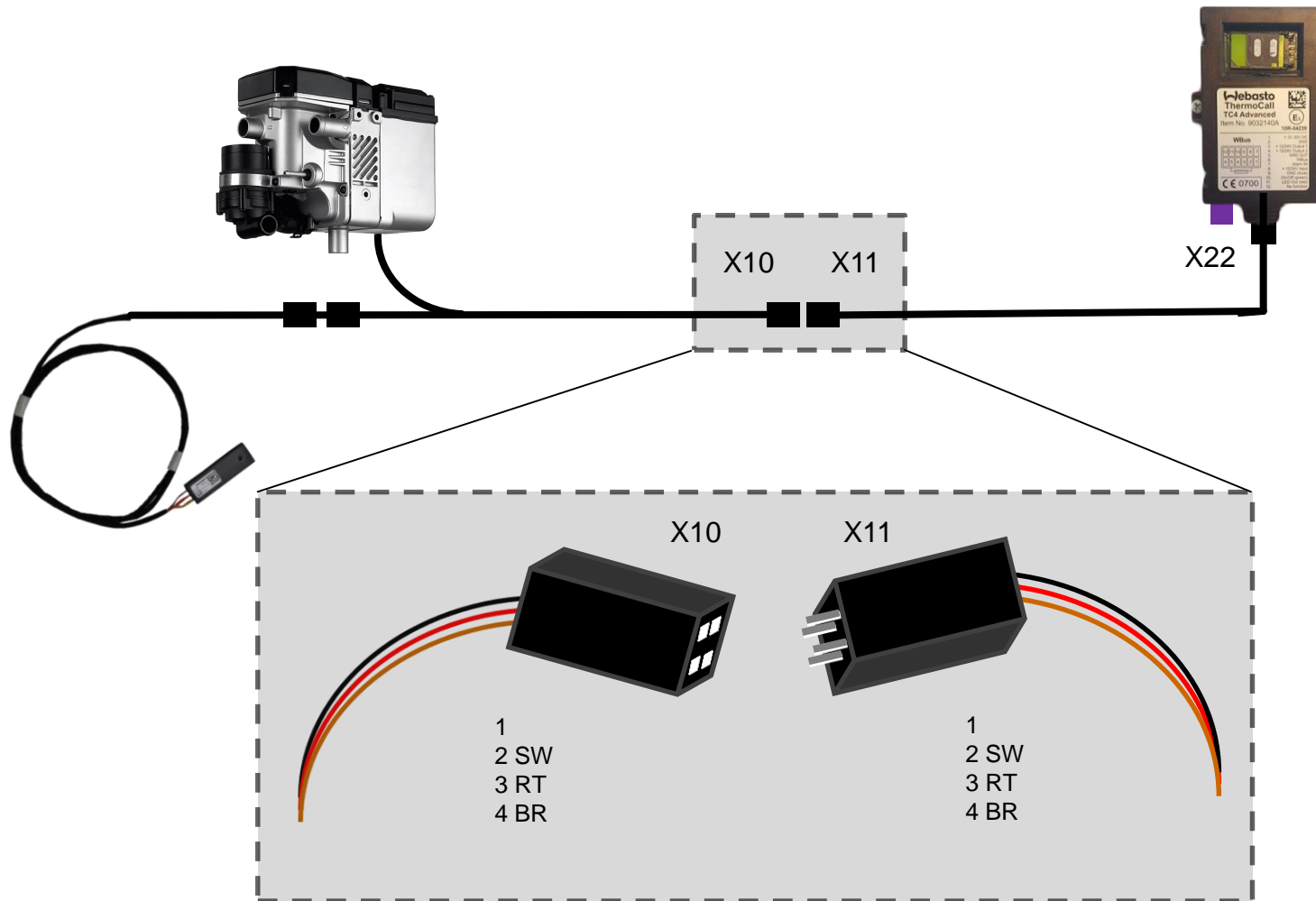
ThermoCall TC4 Advanced



W-bus temperature sensor

Click [here](#) for the pinout

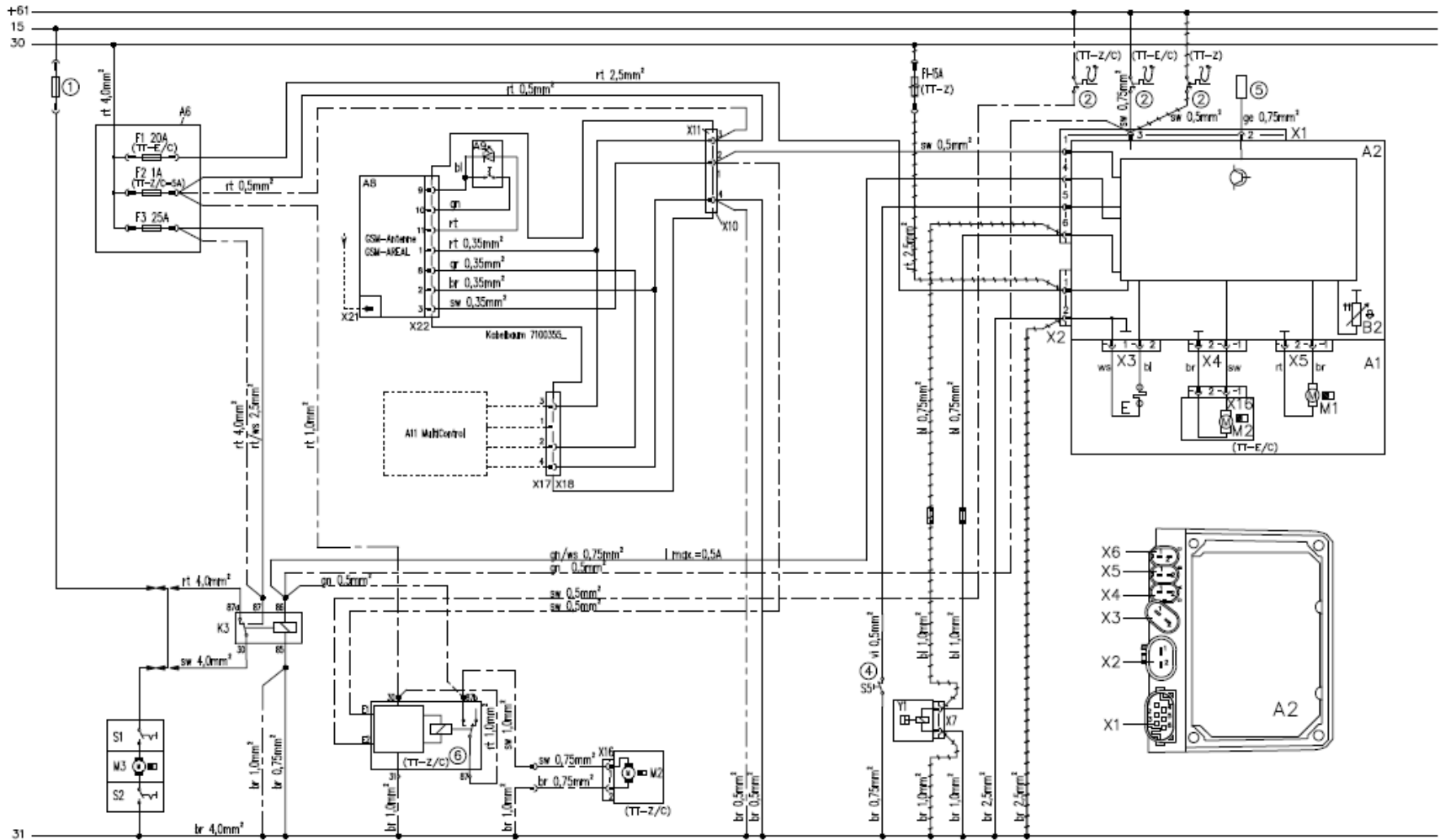
# Thermo Top Z/E/C ↔ ThermoCall TC4 Advanced



Click [here](#) for the wiring diagram



# Thermo Top Z/E/C ↔ ThermoCall TC4 Advanced



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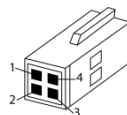
## Thermo Top Z/E/C ↔ ThermoCall TC4 Advanced



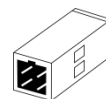
X1



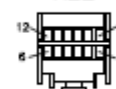
X2



X10/X18



X11/X17



X22

A2	Heater Control Unit
A8	Receiver TC4 Advanced
X1	Connector heater
X22	Connector Receiver TC4 Advanced
X10	Connector
X11	Connector
X1pin2	Connector W-bus temperature sensor

Thermo Top Pro 120 | 150  Main switch

Thermo Top Pro 120 | 150



Main switch



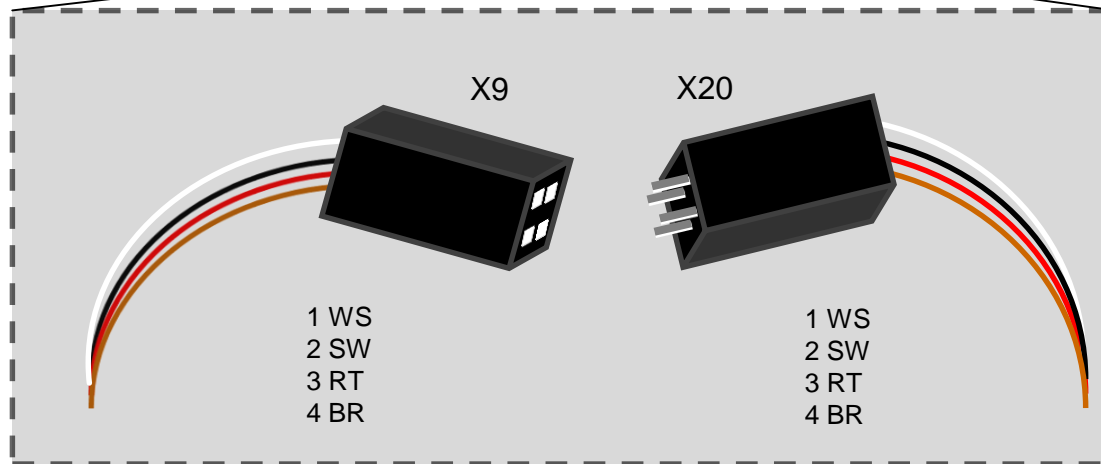
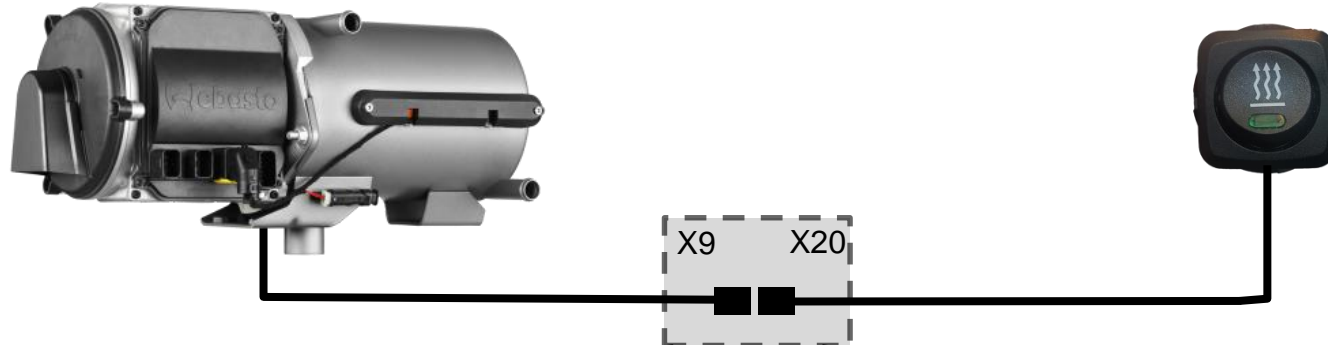
Click [here](#) for the pinout



## Thermo Top Pro 120 | 150 ↔ Main switch

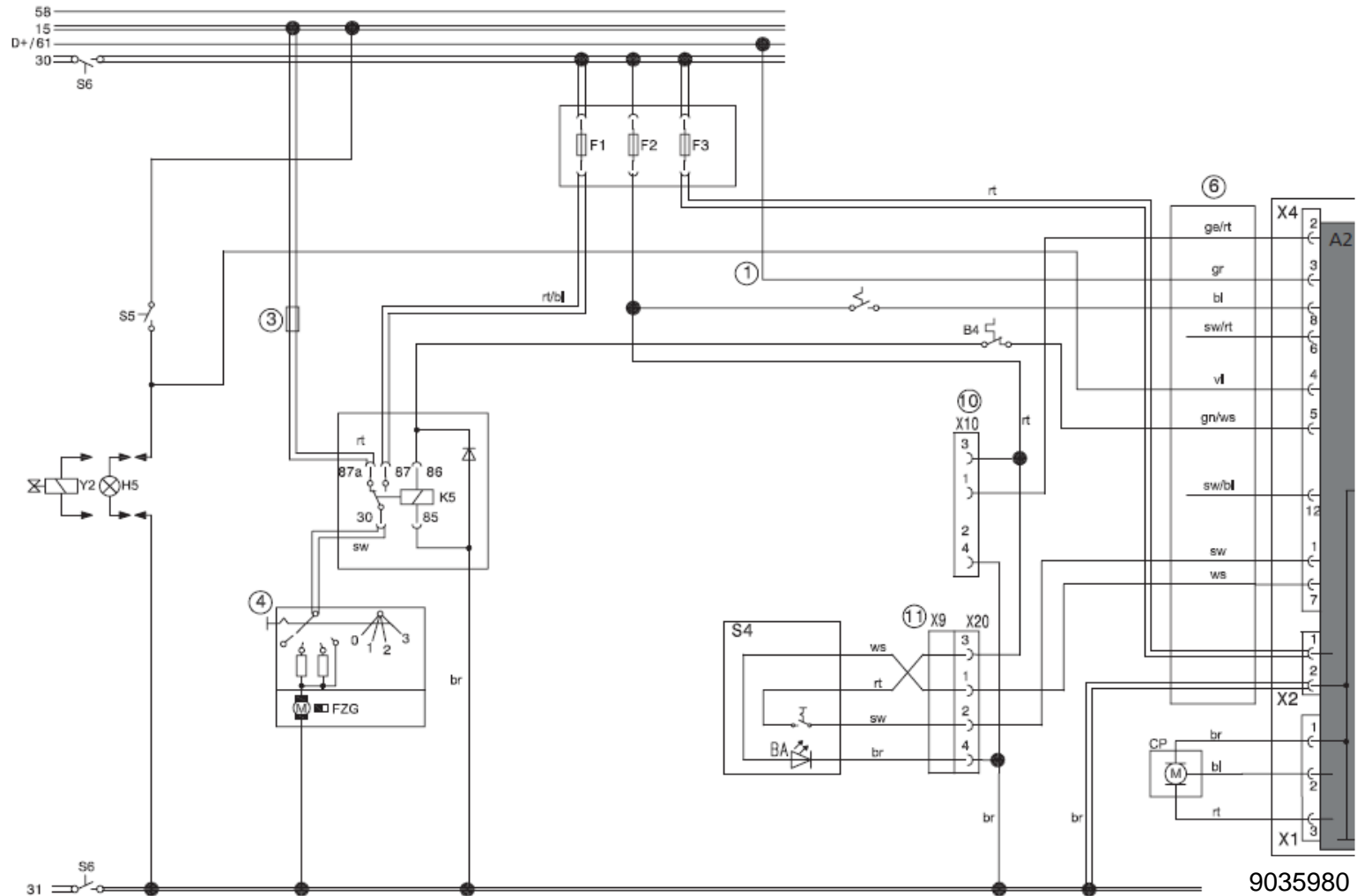
Thermo Top Pro 120 | 150

Main switch



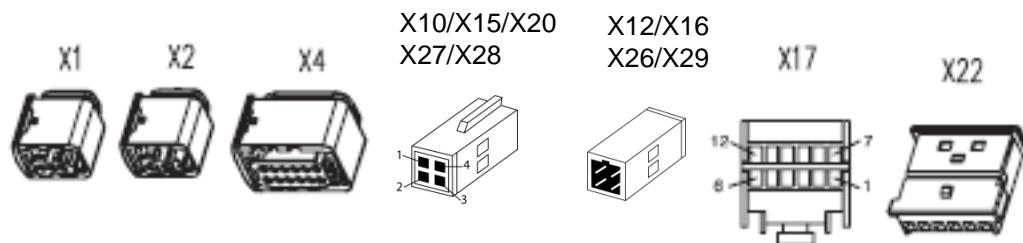
Click [here](#) for the wiring diagram

# Thermo Top Pro 120 | 150 ↔ Main switch



Click [here](#) for more information

## Thermo Top Pro 120 | 150 Main switch



- A2 Heater Control Unit
- S4 Main switch
- X1 Connector coolant pump
- X2 Power supply
- X4 Connections to the vehicle
- X7 Connector Control Unit heater
- X9 Connector
- X20 Connector Main switch

## Thermo Top Pro 120 | 150 ↔ UniControl

Thermo Top Pro 120 | 150



UniControl



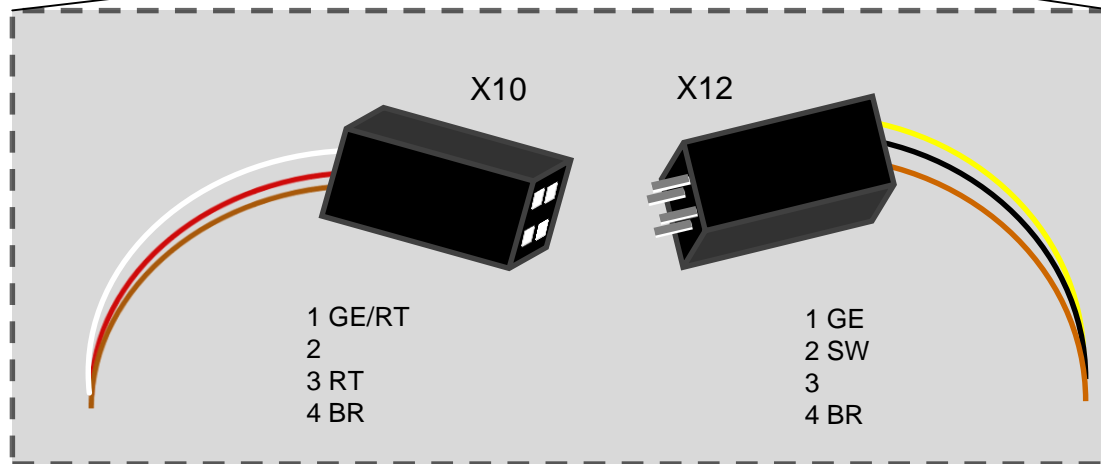
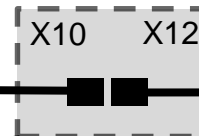
Click [here](#) for the pinout

# Thermo Top Pro 120 | 150 ↔ UniControl

Thermo Top Pro 120 | 150

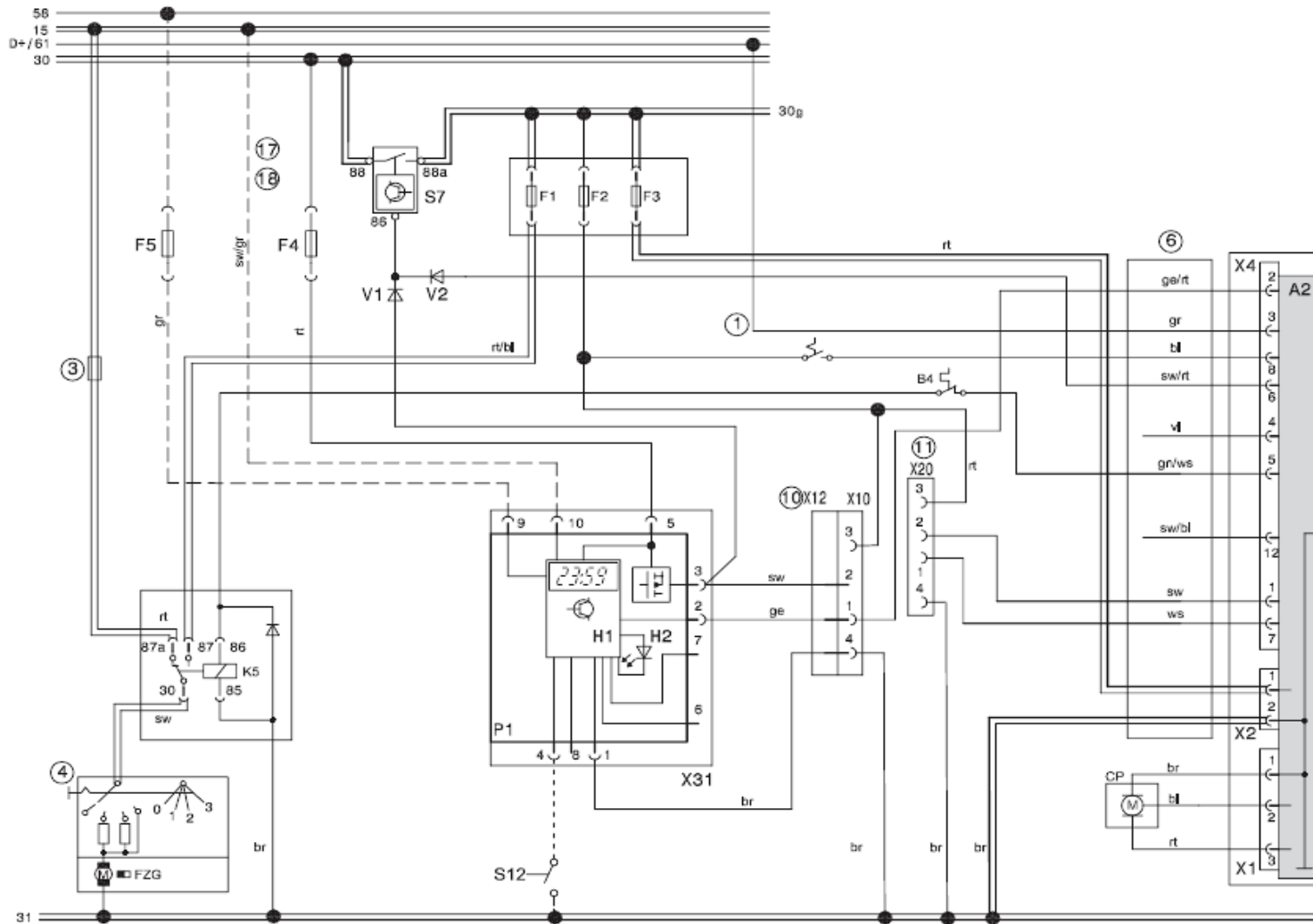


UniControl



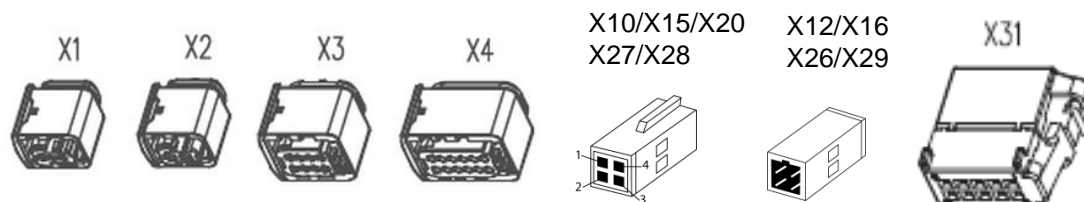
Click [here](#) for the wiring diagram

# Thermo Top Pro 120 | 150 ↔ UniControl



Click [here](#) for more information

# Thermo Top Pro 120 | 150 ↔ UniControl



- A2 Heater Control Unit
- P1 UniControl
- X1 Connector coolant pump
- X2 Power supply heater
- X3 Connector sensors
- X4 Connections to the vehicle
- X31 Connector Unicontrol
- X12 4 pin Connector
- X10 4 pin Connector

Thermo 90 ST ↔ Main Switch

Thermo 90 ST



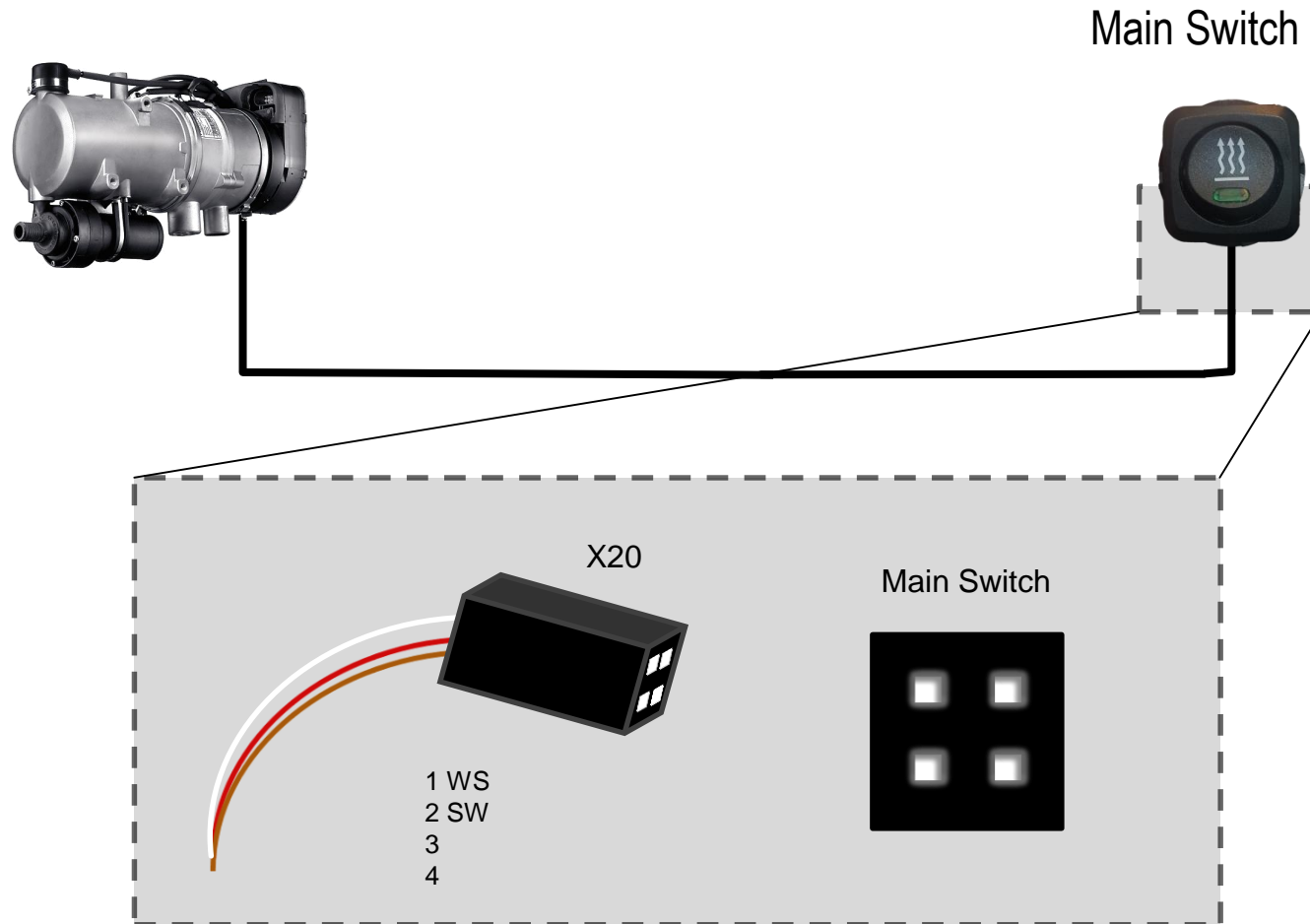
Main switch



Click [here](#) for the pinout

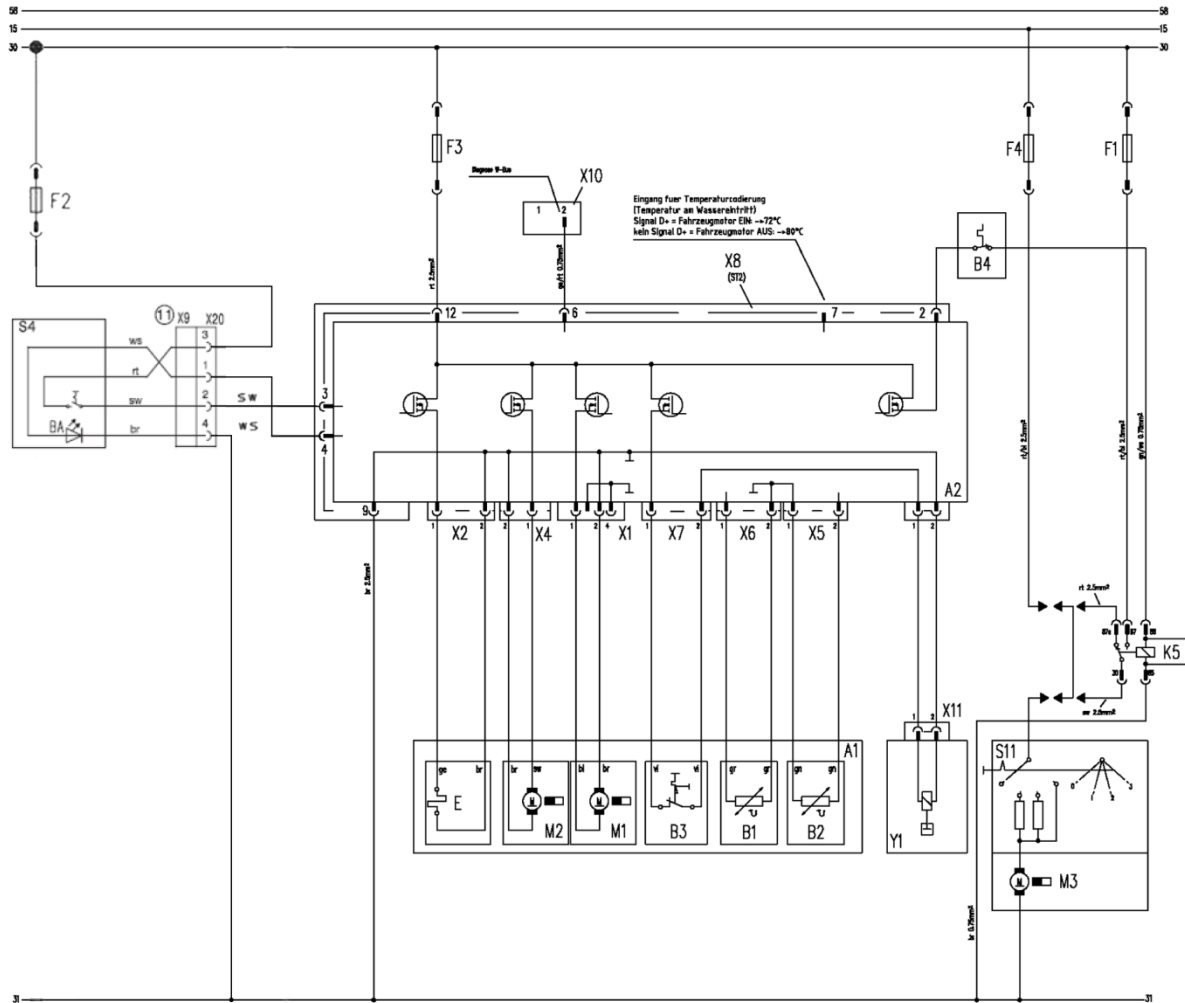


Thermo 90 ST ↔ Main Switch



Click [here](#) for the wiring diagram

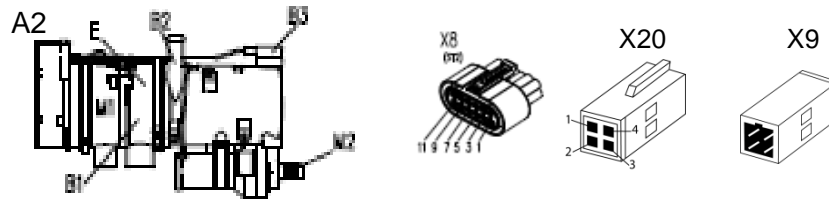
# Thermo 90 ST ↔ Main Switch



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Click [here](#) for more information

# Thermo 90 ST ↔ Main Switch



- A2 Heater Control Unit
- S4 Main switch
- X8 Connector Control Unit heater
- X9 Connector main switch
- X20 Connector