

# AIRTRONIC D5 WIRING DIAGRAMS

## EASYSTART TIMER | EASYSTART SELECT



Heater

Airtronic D5, 12 volt  
Airtronic D5, 24 volt

Order number

25 2361 05 00 00  
25 2362 05 00 00

**Air heater for diesel and petrol  
operating independently of the engine.**



**Eberspächer**  
A world of comfort



## 5 Electrical system

### Heater wiring

The electronic control box is integrated in the heater, which considerably simplifies the wiring required during installation.



#### Caution!

#### Safety instructions!

The heater is to be connected up electrically according to the EMC Directive.

Improper tampering with the heater can affect the EMC.

For this reason, comply with the following instructions:

- Ensure that the insulation of electrical cables is not damaged.  
Avoid:  
Chafing, kinking, jamming or exposure to heat.
- Seal any connection chambers of waterproof connectors not in use with filler plugs to ensure they are dirt-proof and waterproof.
- Electrical connectors and earth connections must be free of corrosion and securely connected.
- Lubricate connectors and ground connections outside the heater interior with contact protection grease.

#### Please note!

Comply with the following when wiring the heater and the control element:

- With the appropriate electrical wiring, the heater (diesel heater, 24 volt) fulfils the ADR regulations; please refer to the circuit diagrams at the end of this document.
- Electrical leads, switch and control gear must be positioned in the vehicle so that they can function perfectly under normal operating conditions without impairment (e. g. due to heat exposure, moisture, etc.)
- The following cable cross-sections are to be used between the battery and heater. With this, the max. allowable voltage loss of 1.5 V with 12 V and 1 V with 24 V nominal voltage is not exceeded, including during the start phase (glow plug on).  
Cable cross-sections for a cable length (plus cable + minus cable) of:  
– up to 5 m = cable cross-section 4 mm<sup>2</sup>  
– from 5 m up to 8 m = cable cross-section 6 mm<sup>2</sup>
- If the plus cable is to be connected to the fuse box (e. g. terminal 30), the vehicle's cable from the battery to the fuse box must also be included in the calculation for the total cable length and re-dimensioned if necessary.
- Insulate unused cable ends.

### Parts list for circuit diagram, heater and cable harness – 12 volt/24 volt/ADR

-A10	Control box
-B3	Overheating and flame sensor
-M1	Burner motor
-R1	Glow plug
-XB3/1	Bush housing, glow plug plug-in connection
-XB3/2	Bush housing, burner motor plug-in connection
-XB3/3	Bush housing, overheating sensor plug-in connection
-XB3/4	Bush housing, flame sensor plug-in connection
-XS1	Connector housing, heater signals
-A30	Fuse holder, 2 pin
-F1	Fuse, heater
-F2	Fuse, control unit
-K2	Battery main switch (operation, e.g. controlled via ignition lock)
-S2	Battery isolating switch (emergency off function for ADR etc.)
-XB1	Bush housing, heater signals
-XB8	Bush housing, metering pump
-Y1	Fuel metering pump
a	Interface, heater / cable harness
b	Activation, vehicle fan relay (optional)
c	to the control unit
f, x	Switch cable S+, insulate cable and tie back
g	Interface, temperature – actual value, temperature setpoint
i	ADR feedback to the control unit
i1	Switch off the anti-theft alarm system
n	Generator input D+
o	Input, power take-off NA+

- Insulate unused cable ends.
- Connectors and bush housings are shown from the cable entry side.

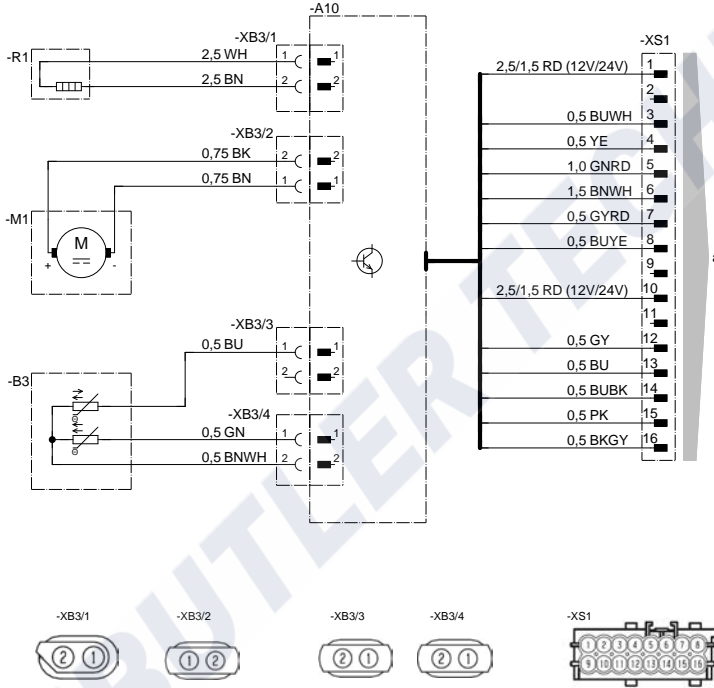
#### Cable colours

RD	red	GR	grey	BK	black
BU	blue	YE	yellow	GN	green
WH	white	VT	violet	BN	brown
OR	orange				

## 5 Electrical system

### Heater circuit diagram

- X:15 ○ Ign (+)
- X:58 ○ Light (+)
- X:30 ○ Bat (+)
- X:31 ○ Bat (-)

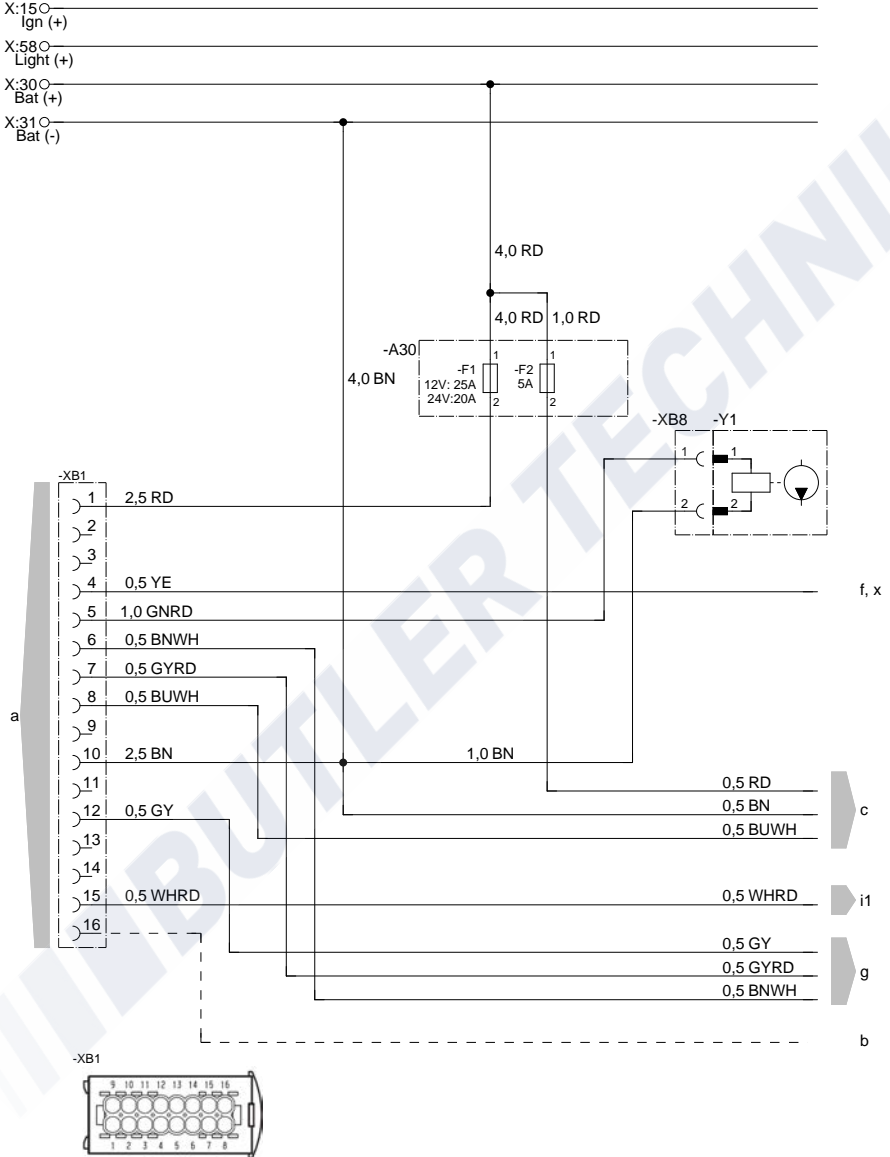


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# 5 Electrical system

## Circuit diagram, cable harness

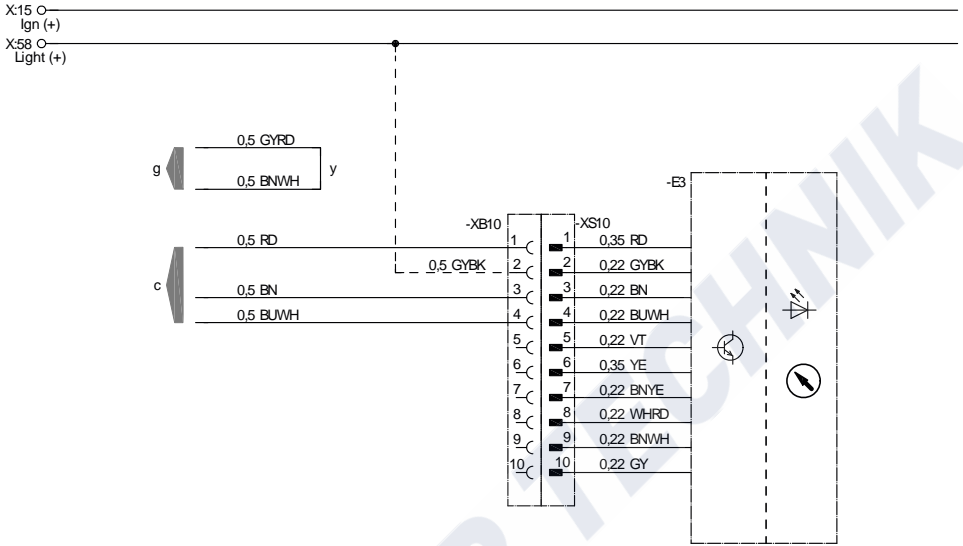


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## 5 Electrical system

### EasyStart Timer circuit diagram



22.1000.34.9702

-E3 EasyStart Timer  
 c to the cable harness  
 g to the cable harness  
 y Connect cables and insulate

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

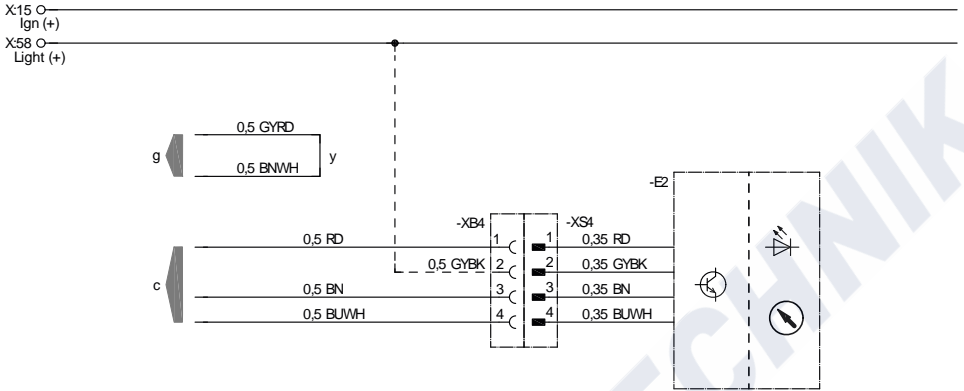


**Note**

Further circuit diagrams for the EasyStart Web are printed in the Installation Instructions Plus, these are available to view and download from the Service Portal.

## 5 Electrical system

### EasyStart Select circuit diagram



22.1000.34.9734

- E2 EasyStart Select
- c to the cable harness
- g to the cable harness
- y Connect cables and insulate

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

#### Note

Further circuit diagrams for the EasyStart Select are printed in the Installation Instructions Plus, these are available to view and download from the Service Portal.