

Hako- Citymaster 1200 (1433.01- 02)
Hako Citytrac 4200 (8010.01- 02)
from Mach.-No 1433 02 0679 5
valid to Mach.- No 1433 02 8 1138 6



Vehicle (engine) does not start

Conditions for start:

1. The seat contact switch B8 must be actuated, i.e. there must be a driver on the driver's seat.
2. The zero position switch S20 of the drive pump must be at its zero position, i.e. the accelerator must not be actuated.
3. The fuses F5, F7, F15 and F30 must be in working condition.

Test:

1. Switch the ignition on and check that the fuel pump M12 is running (the purr of the fuel pump is audible). If it is, the power supply from the ignition switch S1 to the relay K2 is in order.

If this is not the case, check the power supply between the ignition switch S1 and relay K2!

2. Does the seat contact switch B8, connect B-/Ground (31) through to relay socket K2 pin 4?

Note: pull the relay K2 out of the control unit K2 and measure it directly at the relay socket of K2/4!

If this is not the case, check the seat contact switch and cable for electrical faults; replace, if necessary.

3. Does the zero position switch S20 connect the drive pump B+ (12V) through to relay socket K2 pin 7?

Note: pull the relay K2 out of the control unit K2 and measure it directly at the relay socket of K2/7!

If this is not the case, check the zero position switch S20 of the drive pump and cable for electrical faults; replace, if necessary.

4. When all the tests (1- 3) are completed and no faults are detected, the relay K2 must be replaced.

Important note: Seat contact switch B8 and zero position switch S20 of the drive pump may only be bridged for test purposes!

If no switching signal is issued within 6 hours of bridging B8 and S20 or through a defect on the zero position switch S20, K2 is switched off and the vehicle can no longer be started!

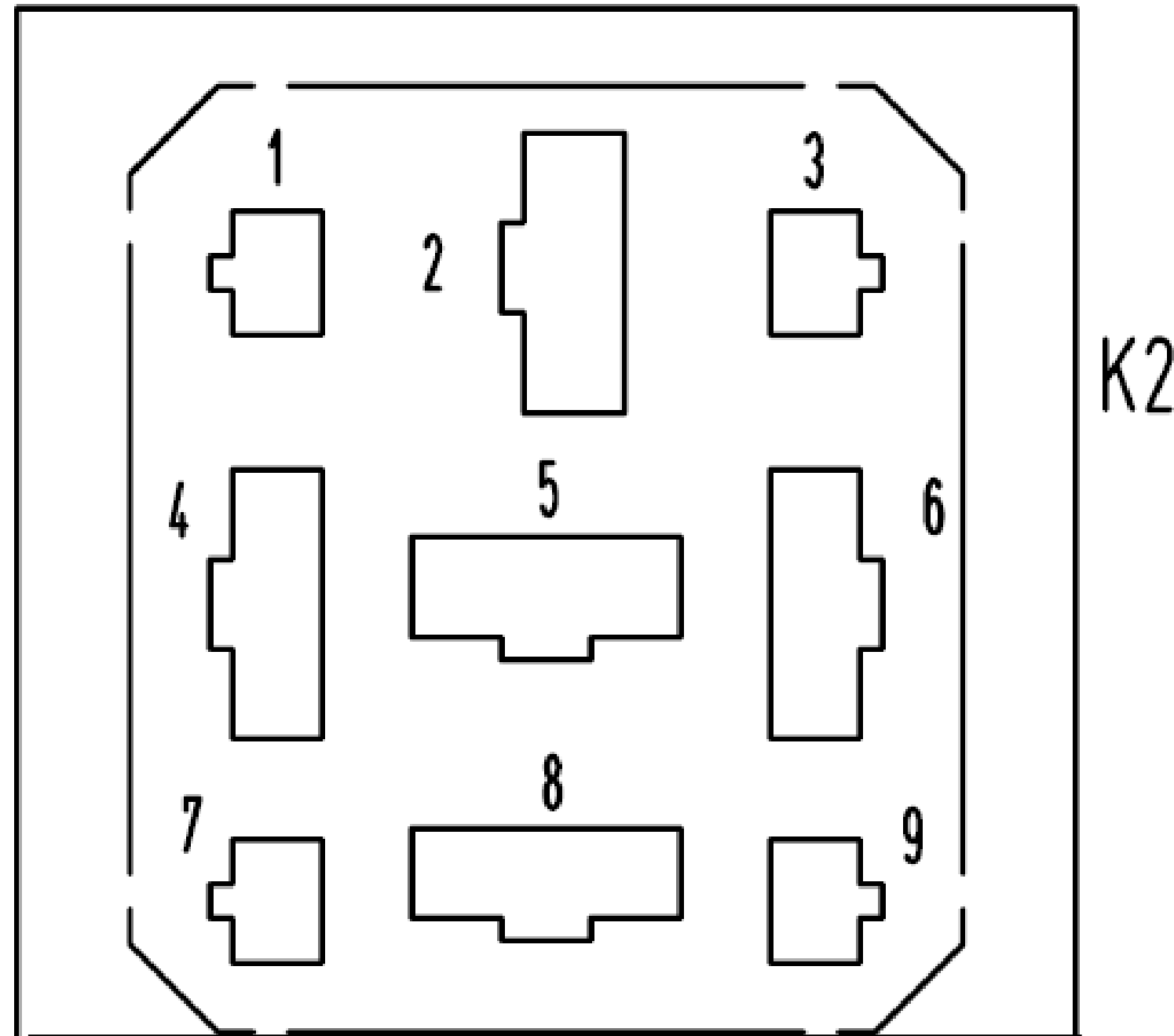
Test: Unplug relay K2 and plug in again; if the vehicle now starts, check B8 and S20!

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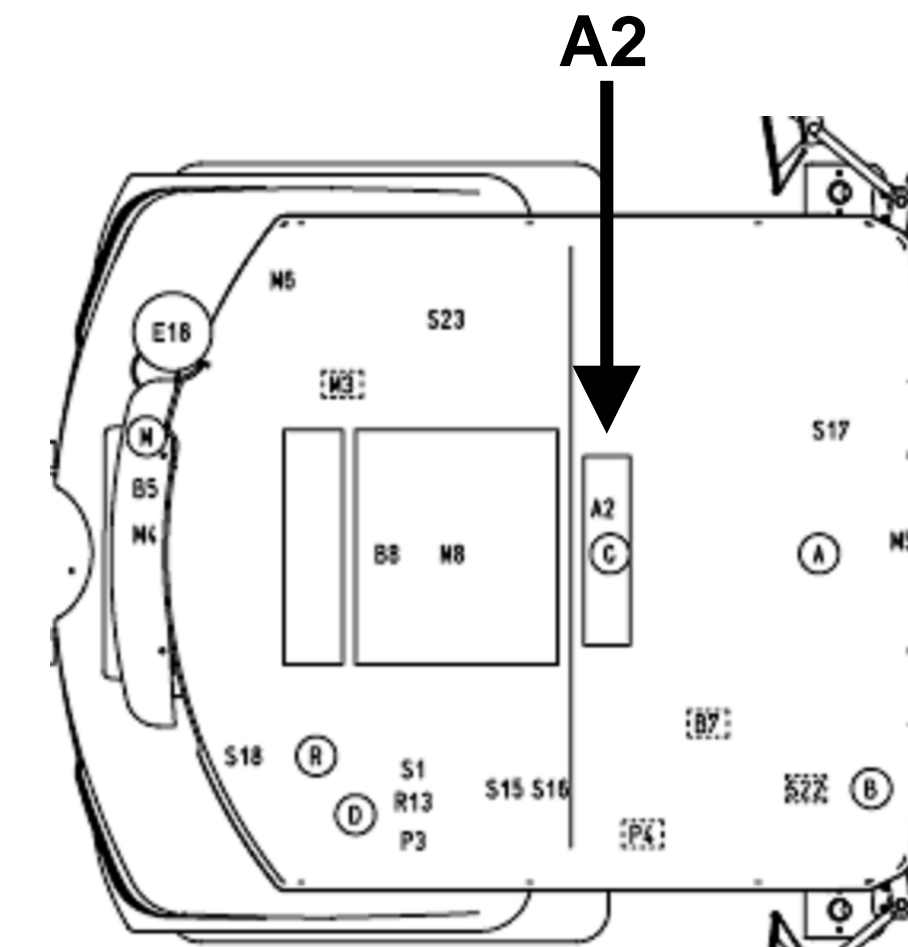
3.0.1 Electrical Installation

Relaissockel von K2 - Relay socket from K2

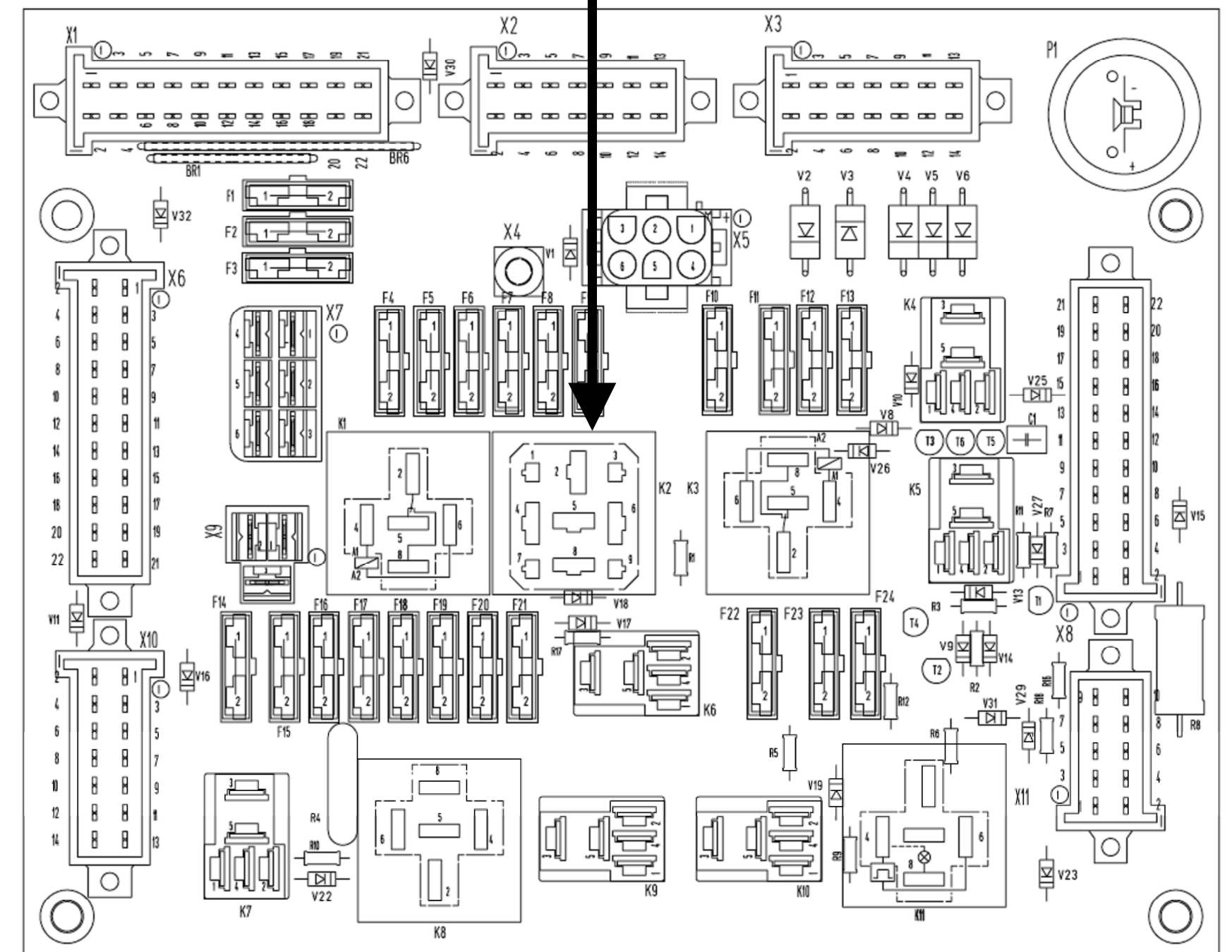


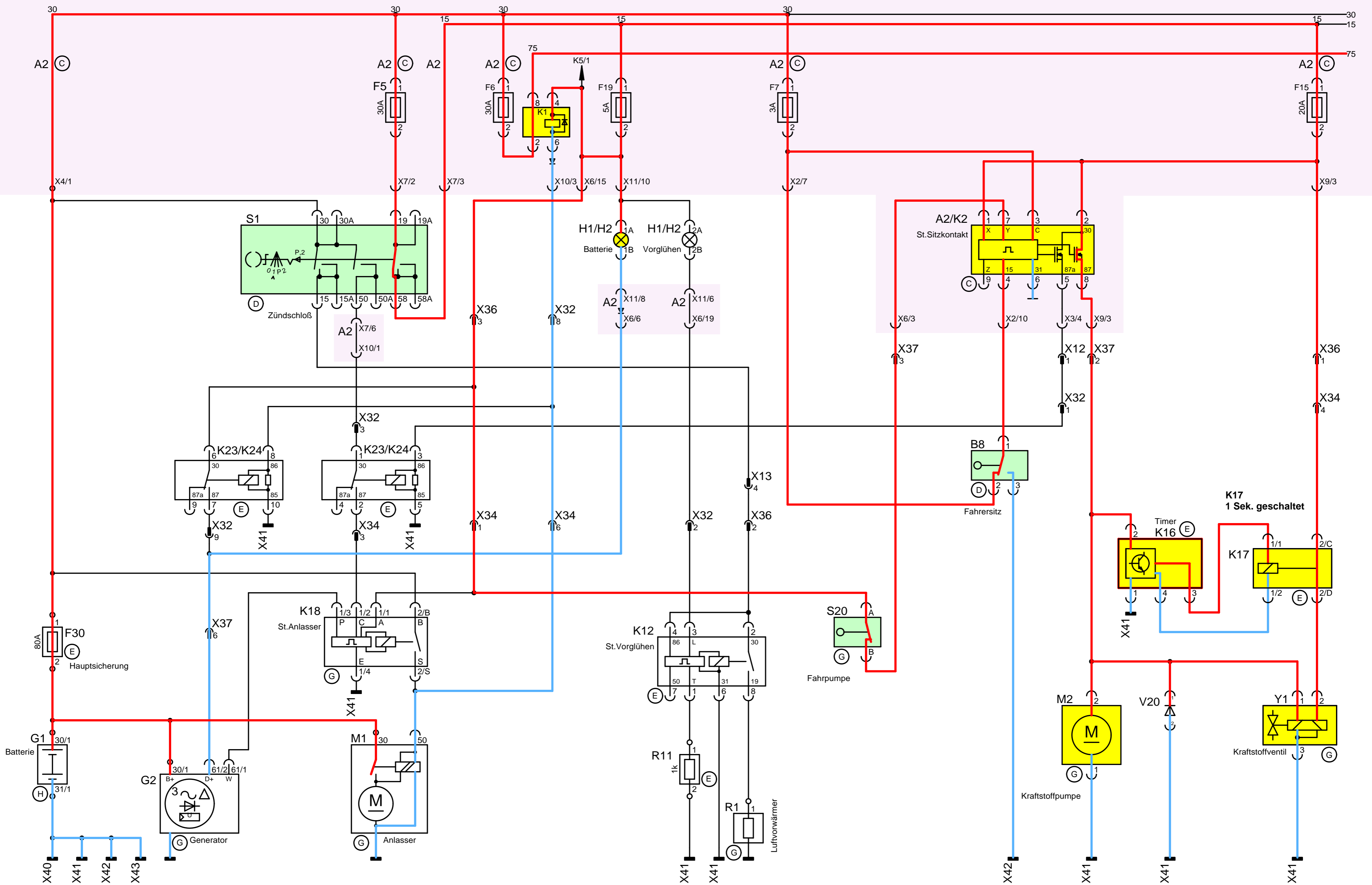
- Pin 1, B+ (12V) from F15, 20A
- Pin 2, B+ (12V) from F15, 20A
- Pin 3, B+ (12V) from F7, 3A
- Pin 4, B+ (12V) from B8 when the seat contact switch is not closed!
- Pin 4, B- /Ground (31), from B8 when the seat contact switch is closed! **Necessary to start!**
- Pin 6, B- /Ground 31
- Pin 7, B+ (12V), from S20, drive pump in zero position. **Necessary to start!**

Kabine - Cabine



Leiterkarte Sicherungskasten A2
printed board fuse box A2



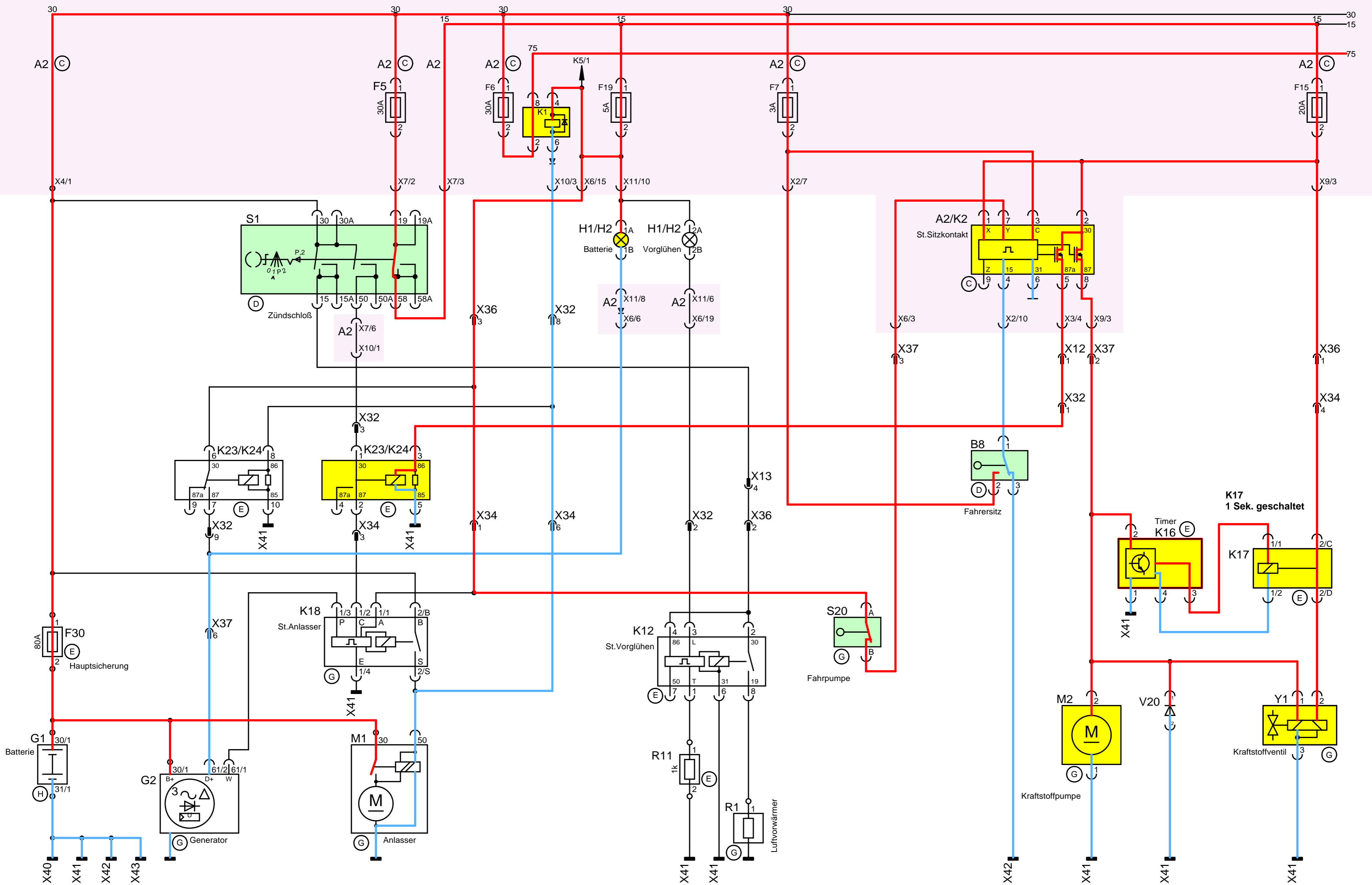


Funktionen

- S1 Zündung ein (Stufe 1) / Ignition on (stage 1)
- B8 Sitz nicht belegt / Seat contact open
- S20 Fahrpumpe in Nullstellung / Drive pump zero position
- Motor aus / Engine stopped

Schaltplan / Circuit diagram
 CM 1200
 ab Maschinen Nr. 143302706795

Schaltplan / Circuit diagram
 CT 4200
 ab Maschinen Nr. 801002701375

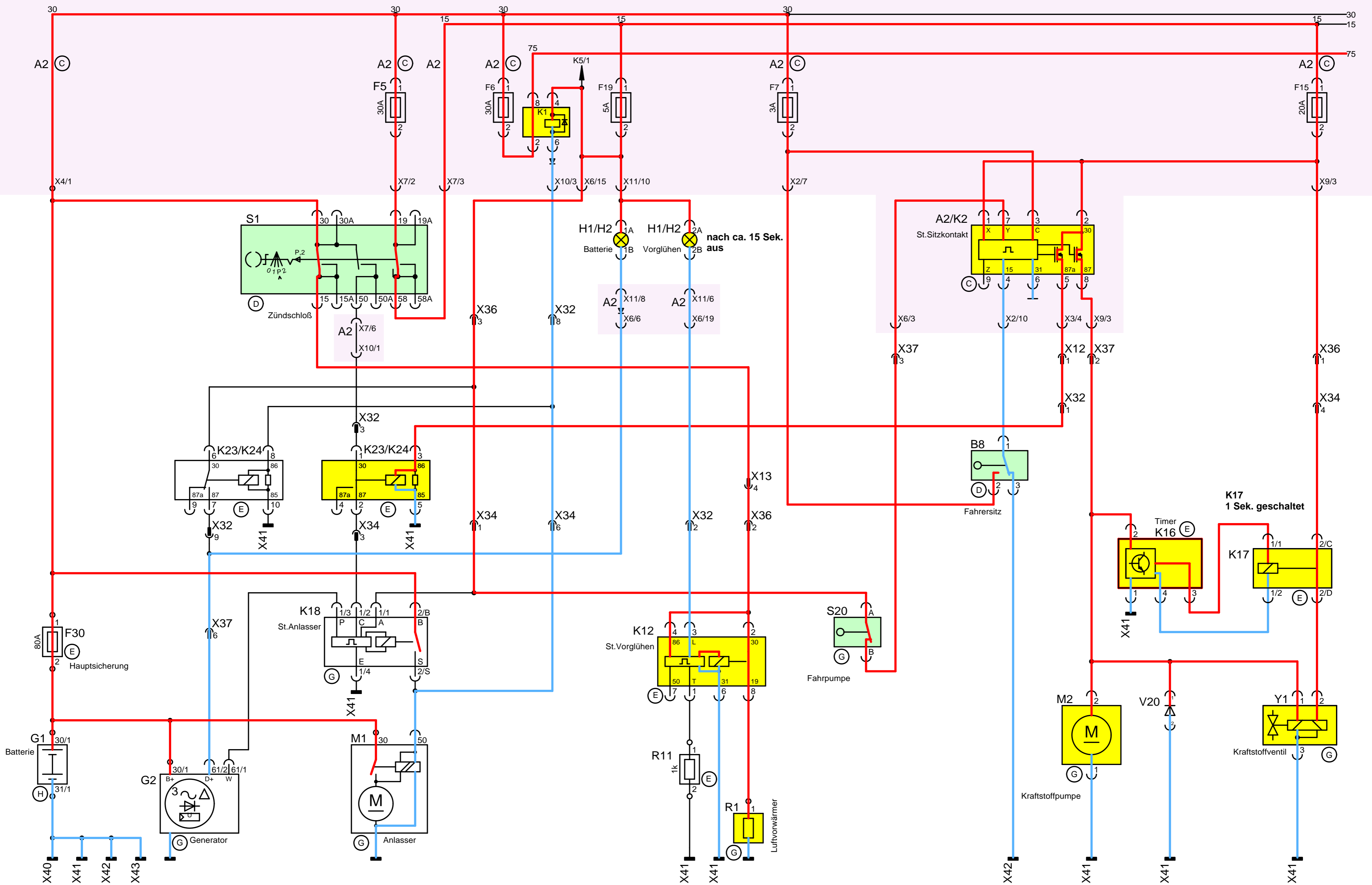


Funktionen

- S1 Zündung ein (Stufe 1) / Ignition on (stage 1)
- B8 Sitz ist belegt / Seat contact closed
- S20 Fahrpumpe in Nullstellung / Drive pump zero position
- Motor aus / Engine stopped

Schaltplan / Circuit diagram
 CM 1200
 ab Maschinen Nr. 143302706795

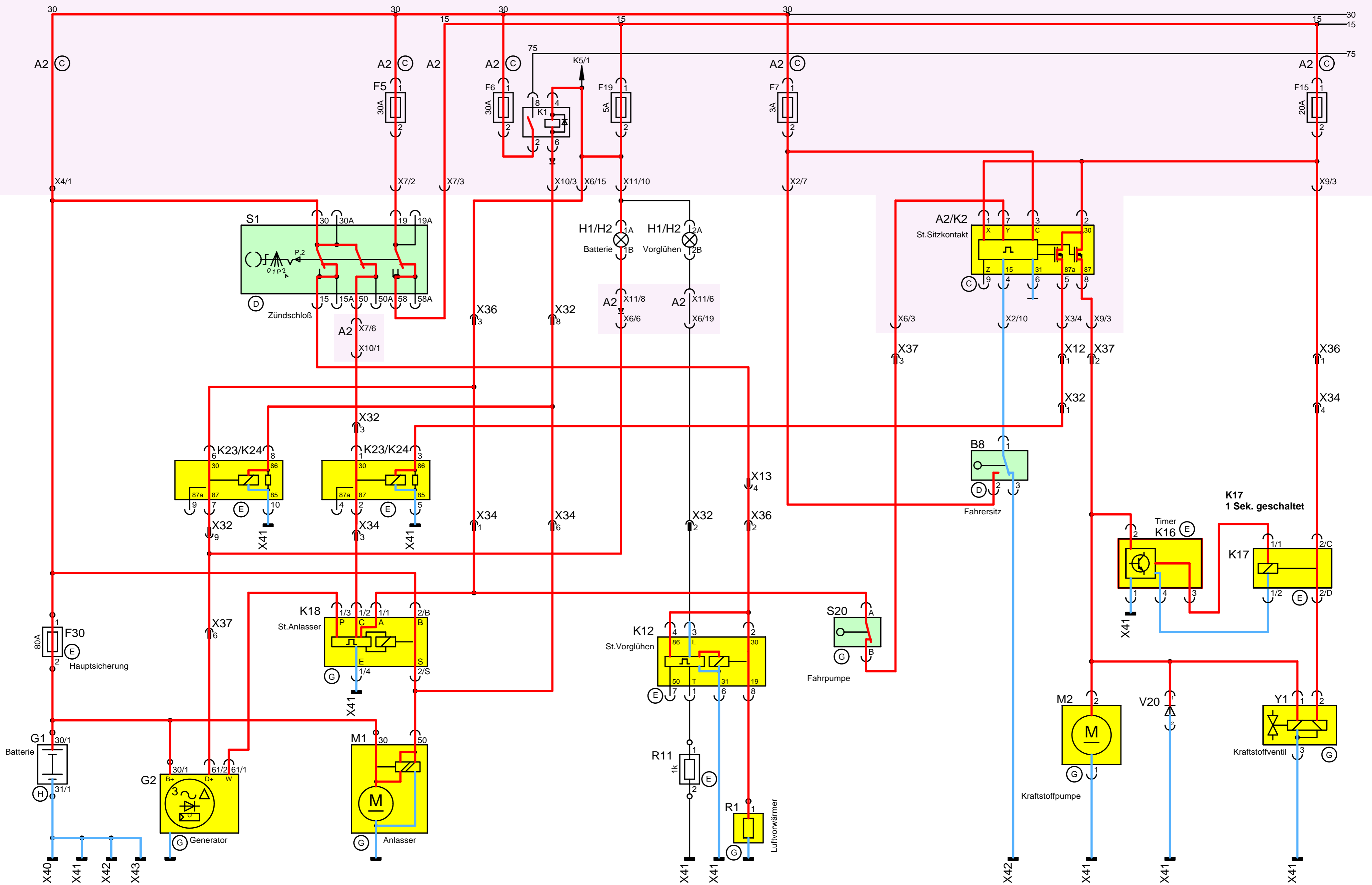
Schaltplan / Circuit diagram
 CT 4200
 ab Maschinen Nr. 801002701375



- Funktionen
- S1 Vorglühen (Stufe 2) / Pre-glow (stage 2)
 - B8 Sitz ist belegt / Seat contact closed
 - S20 Fahrpumpe in Nullstellung / Drive pump zero position
 - Motor aus / Engine stopped

Schaltplan / Circuit diagram
 CM 1200
 ab Maschinen Nr. 143302706795

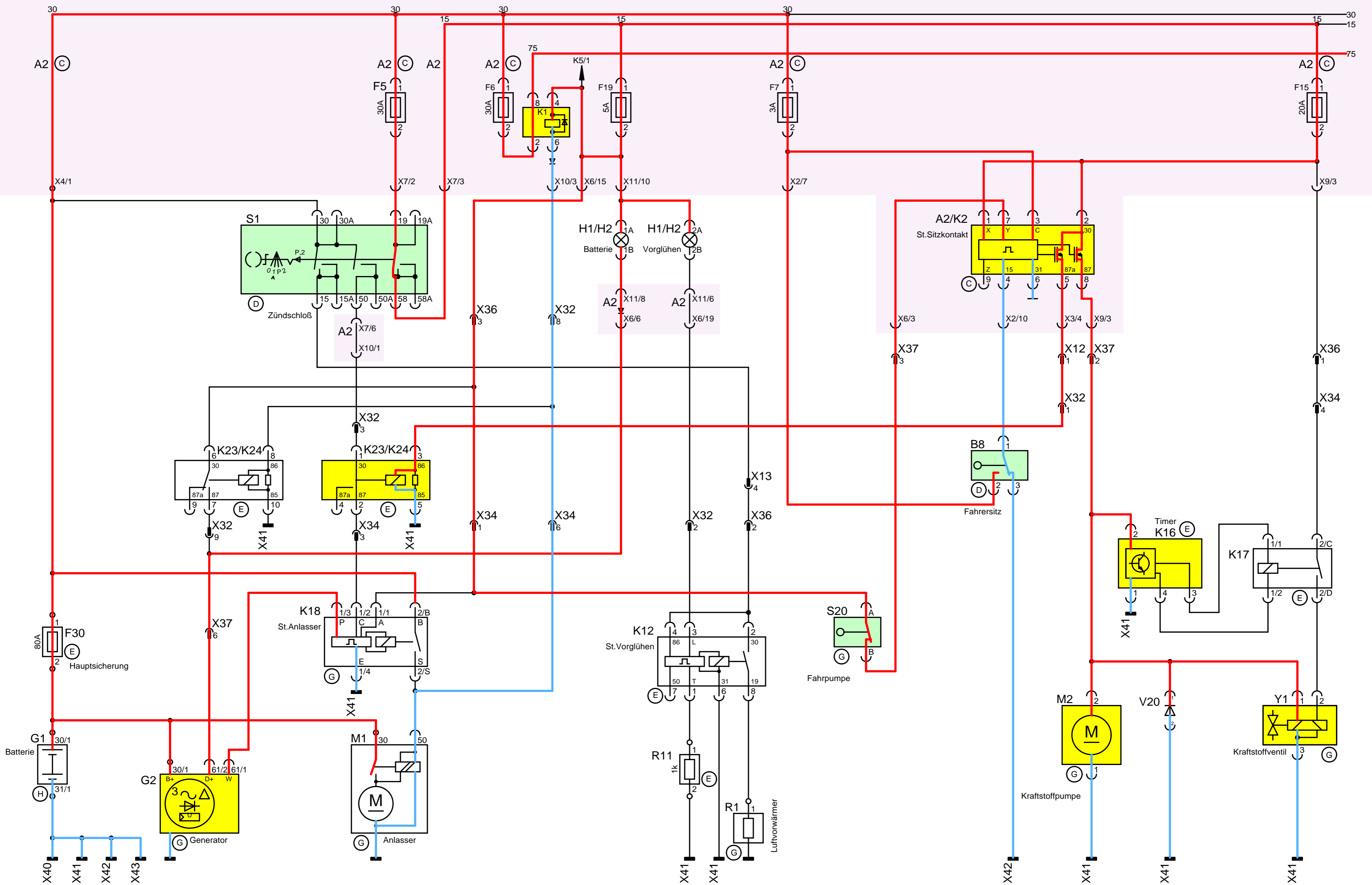
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Funktionen	S1	B8	S20
	Starten (Stufe 3) / Start (stage 3)	Sitz ist belegt / Seat contact closed	Fahrpumpe in Nullstellung / Drive pump zero position
			Motor starten / Start engine

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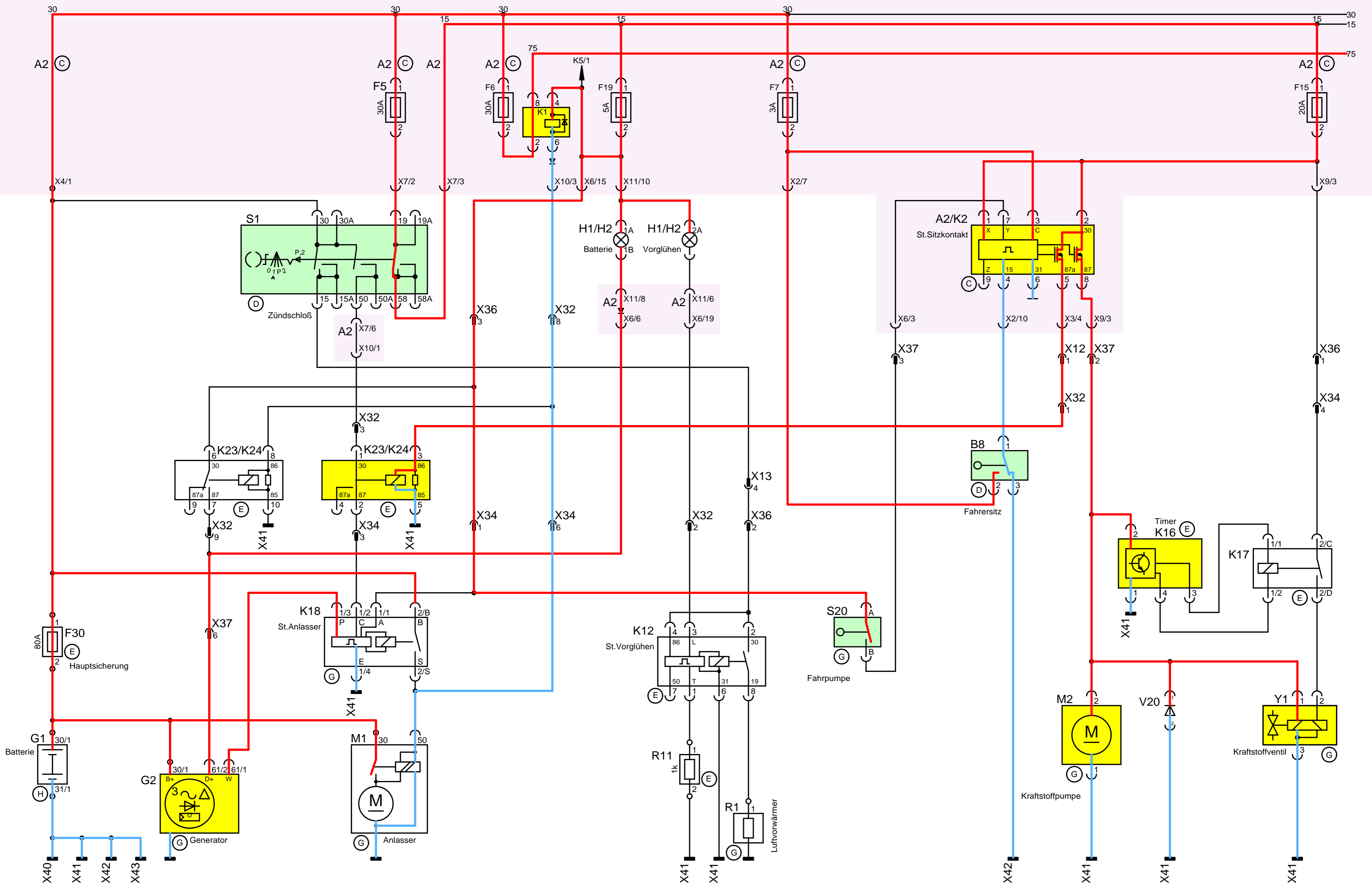
Schaltplan / Circuit diagram
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Funktionen	S1	Zündung ein (Stufe 1) / Ignition on (stage 1)
	B8	Sitz ist belegt / Seat contact closed
	S20	Fahrpumpe in Nullstellung / Drive pump zero position
		Motor läuft / Engine runs

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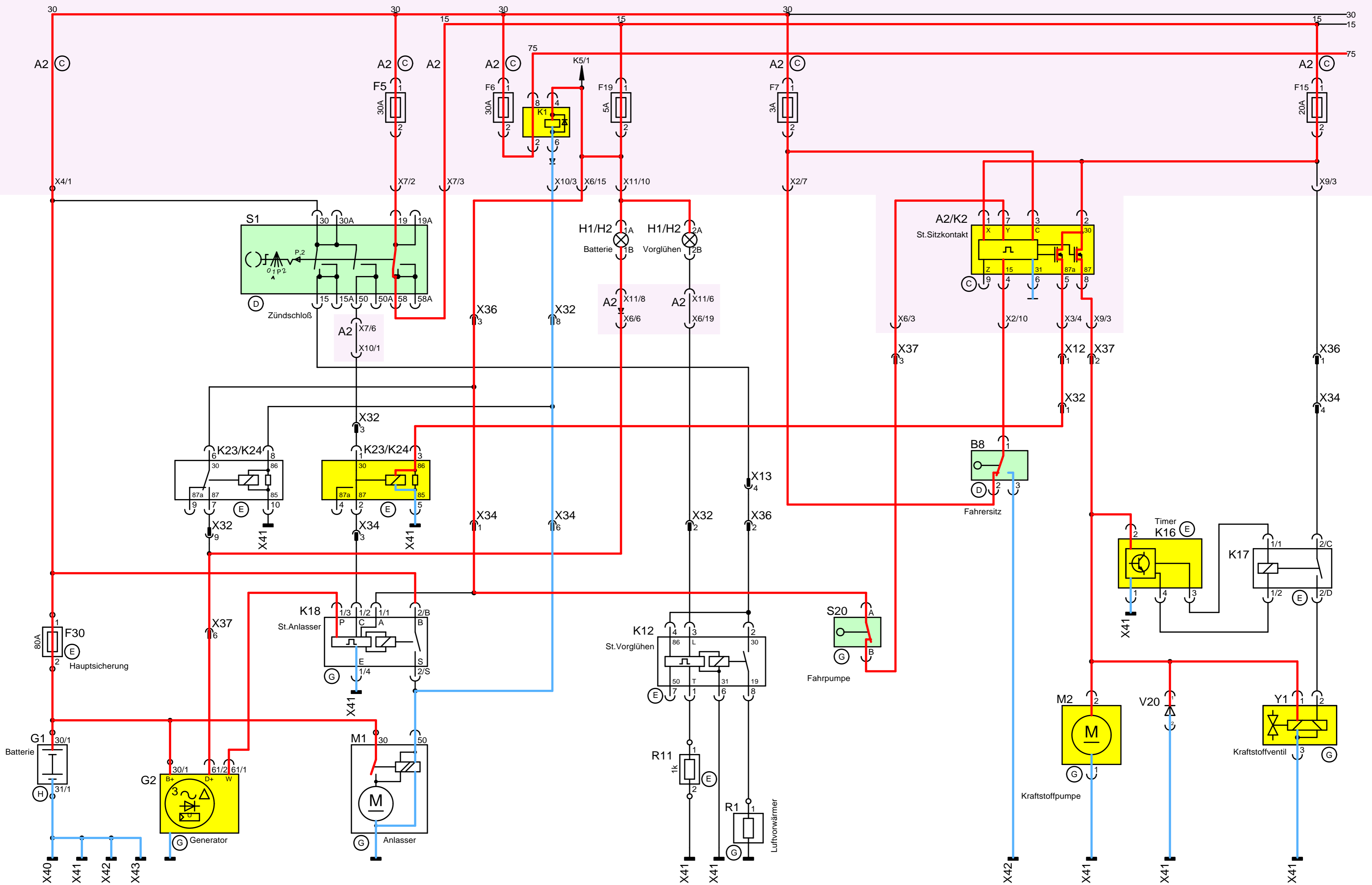
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Funktionen	S1	Zündung ein (Stufe 1) / Ignition on (stage 1)
	B8	Sitz ist belegt / Seat contact closed
	S20	Fahrpumpe ausgelenkt / Drive pump to move
		Motor läuft / Engine runs

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Funktionen

S1 Zündung ein (Stufe 1) / Ignition on (stage 1)

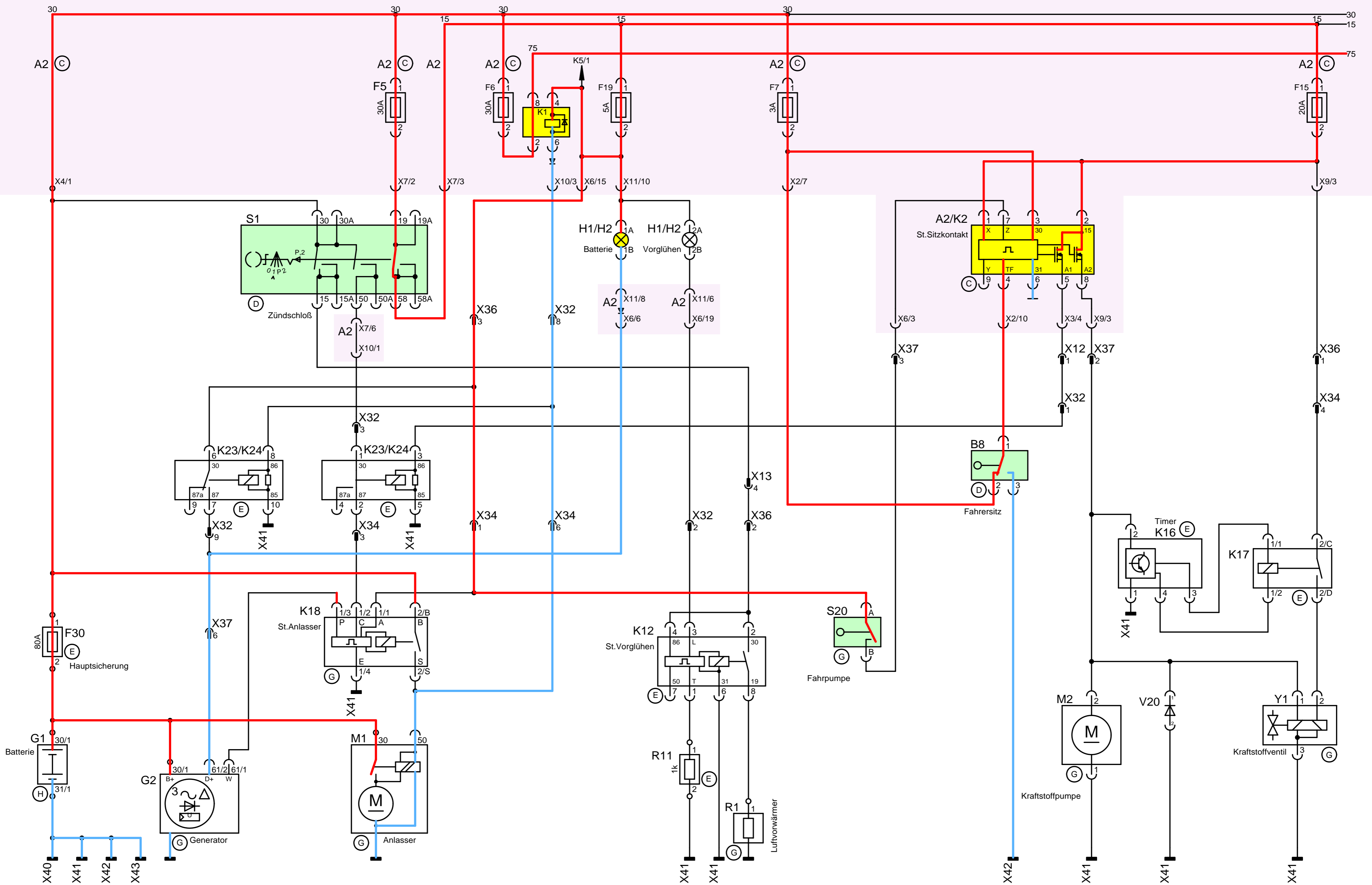
S20 Fahrpumpe in Nullstellung / Drive pump zero position

B8 Sitz verlassen / Seat abandon

Motor läuft weiter / Engine runs along

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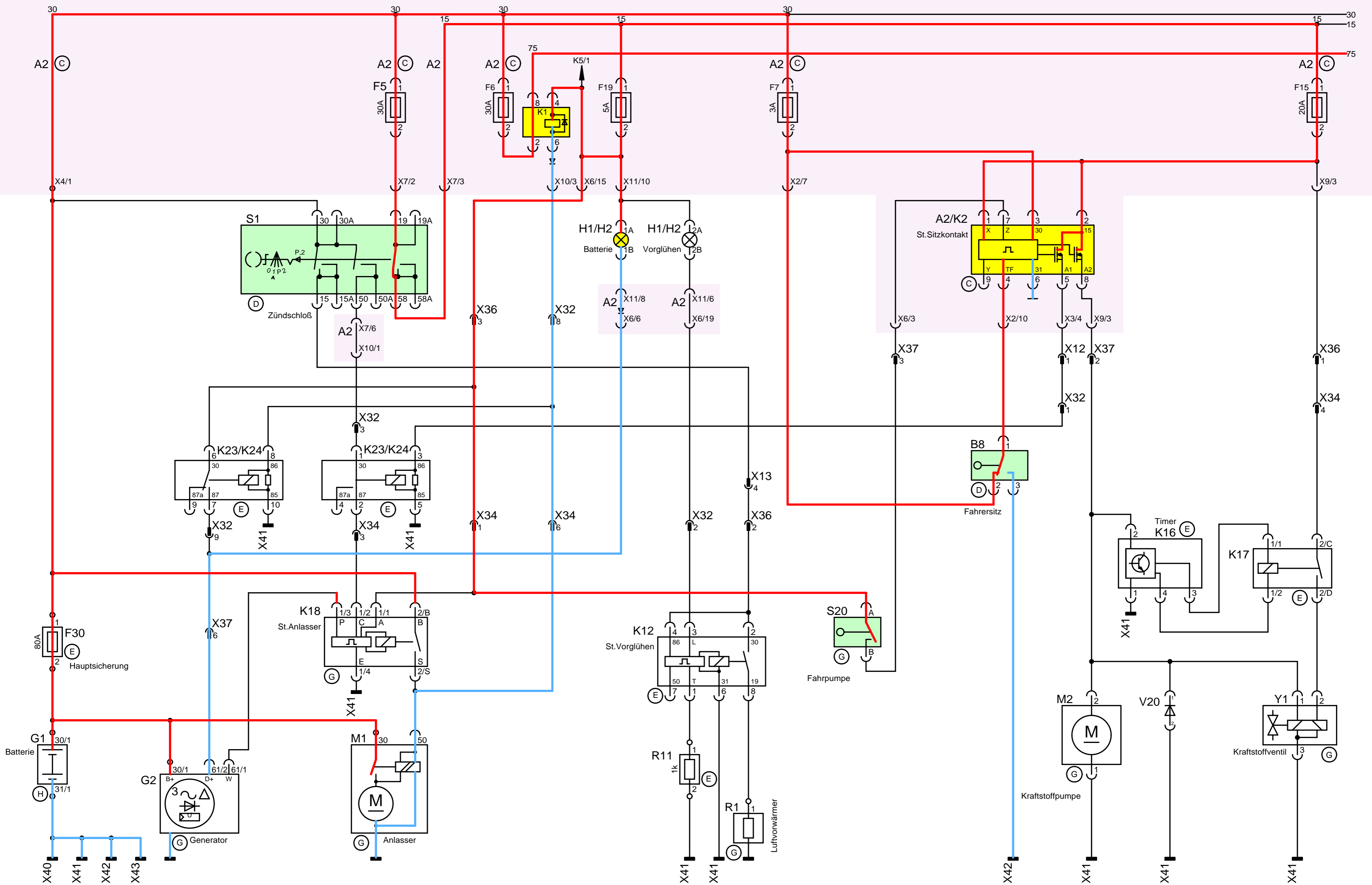


Funktionen

- S1 Zündung ein (Stufe 1) / Ignition on (stage 1)
- B8 Sitz verlassen / Seat abandon
- S20 Fahrpumpe wird ausgelenkt / Drive pump to move
Motor geht sofort aus / Engine stopped momently

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Funktionen	
S1	Zündung ein (Stufe 1) / Ignition on (stage 1)
S20	Fahrpumpe ausgelenkt / Drive pump to move
B8	Sitz nicht belegt (>3Sek.) / Seat contact open (>3sec.)
	Motor geht aus / Engine stopped

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