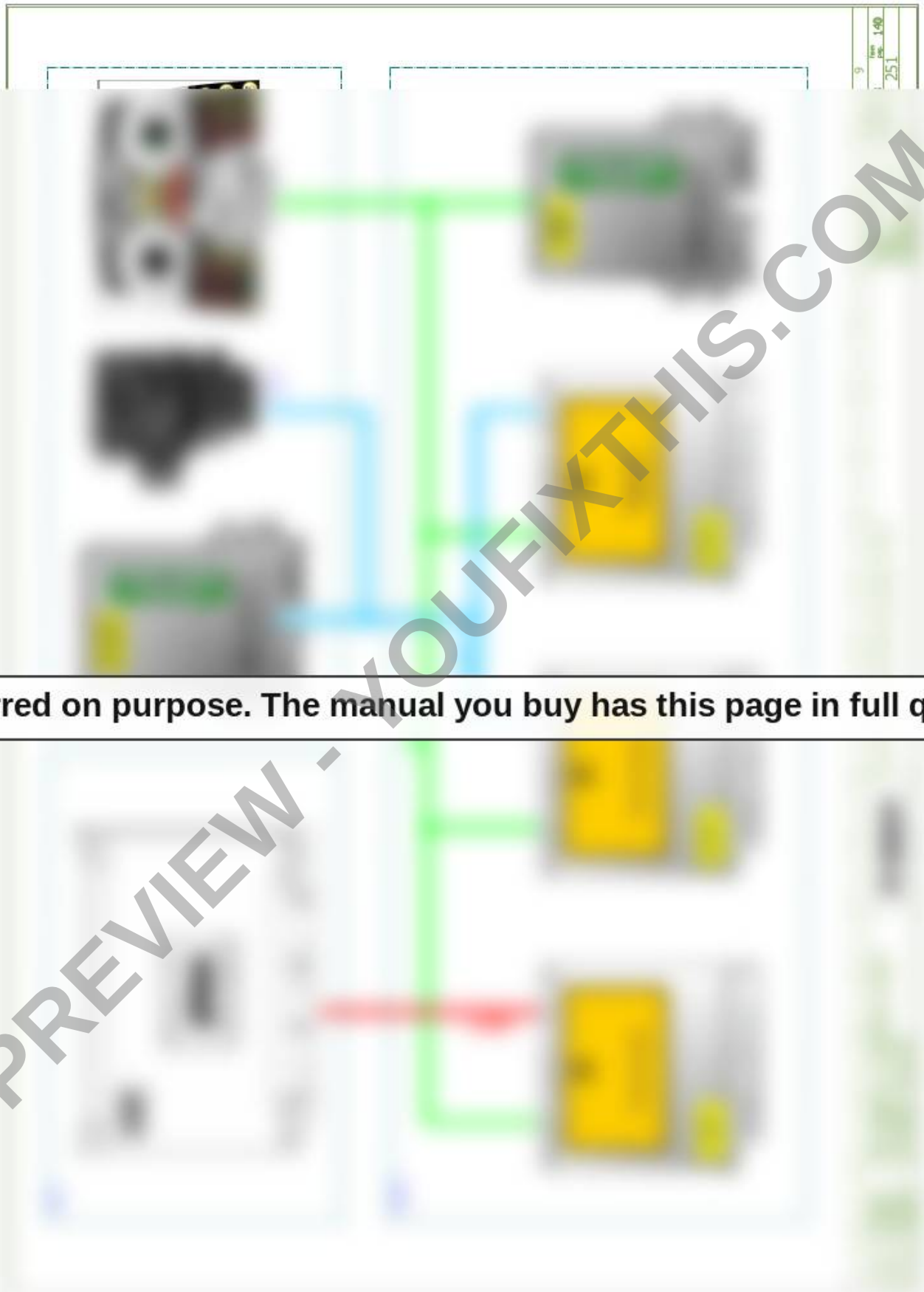
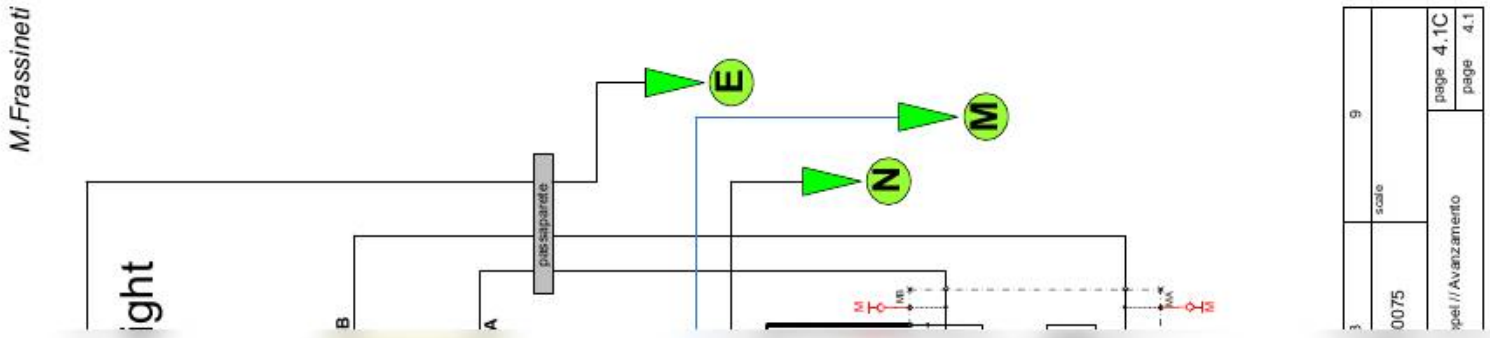
Wiring diagram 251



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Fault code					Diagnostic code				
Code	Operating equipment		Fault description		Code	min.	max.	[ ]	Comment
510	K22	Relay for solenoid actuator for engine shut-down	Voltage above normal range or short circuit to (+) potential	X35:2	5003	0	28	V	
511	K22	Relay for solenoid actuator for engine shut-down	Voltage below normal range or short circuit to ground	X35:2	5003	0	28	V	
512	K22	Relay for solenoid actuator for engine shut-down	Current too low or interruption of power	X35:2	5003	0	28	V	
1001	Y04	Brake solenoid valve	Current too low or interruption of power	X35:45	1001	0	28	V	
1002	Y04	Brake solenoid valve	Voltage below normal range or short circuit to ground	X35:45	1001	0	28	V	
1003	Y04	Brake solenoid valve	Voltage above normal range or short circuit to (+) potential	X35:45	1001	0	28	V	
1011	H07	Warning buzzer	Voltage below normal range or short circuit to ground	X35:3					
1012	H07	Warning buzzer	Voltage above normal range or short circuit to (+) potential	X35:3					
1016	H14	Warning buzzer for backward travel	Voltage below normal range or short circuit to ground	X35:51					
1017	H14	Warning buzzer for backward travel	Voltage above normal range or short circuit to (+) potential	X35:51					
1020	R07	Potentiometer for speed control	Voltage below normal range or short circuit to ground	X35:9	1012	600	7500	mV	

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NOTICE!

To stop the machine during the adjustment process:

– Return the travel lever to "Neutral" or
– press the Emergency Stop button or
– switch the ignition off.

NOTICE!

Calibration must only be made at **operating temperature** of the machine.

Input code

NOTICE!

Observe the “Input codes display general” section!
↳ *„Operation“ on page 118*

In order to be able to perform the "Automatic calibration of travel currents" correctly, the following actions must be carried out:

- Start the diesel engine
- Turn the rotary switch for "ECO mode" to "ECO"
- Set the rotary button for “Working speed” between *„1“* and *„2“*.
- Travel speed range switch to "slow" (turtle)
- Move the travel lever to “Forward travel” and drive the machine for approx. 5 metres
- Shift the travel lever to "Neutral" position.

Calibrating the travel currents:

Action	Result
■ Enter code *„0001“*.	■ The system changes to service mode. ■ The display shows a tool symbol.
■ Enter code *„1090“*.	■ The teach function “Automatic calibration of travel currents” is activated. ■ The display shows *„0000“*. The left *„0“* flashes.
■ Enter code *„1091“*.	■ The “Calibration of traction current left” function is activated. ■ The display shows *„FORE“*.

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No.	Maintenance works	Page
8.2.6.2.2	*Servicing the scraper belt drive chain*	*214*
8.2.6.2.3	*Servicing the auger*	*215*
8.2.6.2.4	*Checking scraper and rubber apron on material hopper*	*218*
	Every 500 operating hours	
8.2.6.3.1	*Checking the hydraulic lines*	*218*
	As required	
8.2.6.4.1	*Extending auger and tunnel*	*219*

8.2.6.2 Every 250 operating hours

8.2.6.2.1 Servicing the scraper belt

1. Park the machine in secured condition ↳ *Chapter 1.2.2 „Parking the machine in secured condition“ on page 15*.

Checking the chain

Protective equipment:
- Working clothes
- Protective gloves

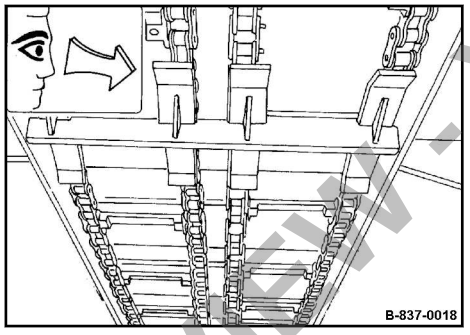


Fig. 92

1. Check the condition of chain links and guide.

⇨ If the chain is worn, the drive shaft and deflection pulley must be replaced, too.

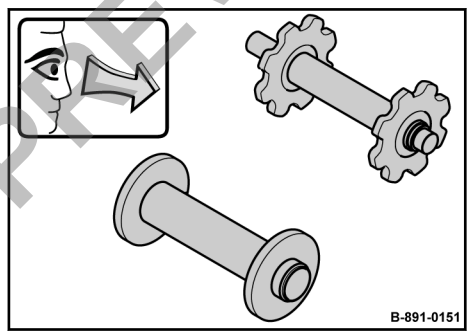


Fig. 93

2. Check the condition of drive shaft and deflection pulley.

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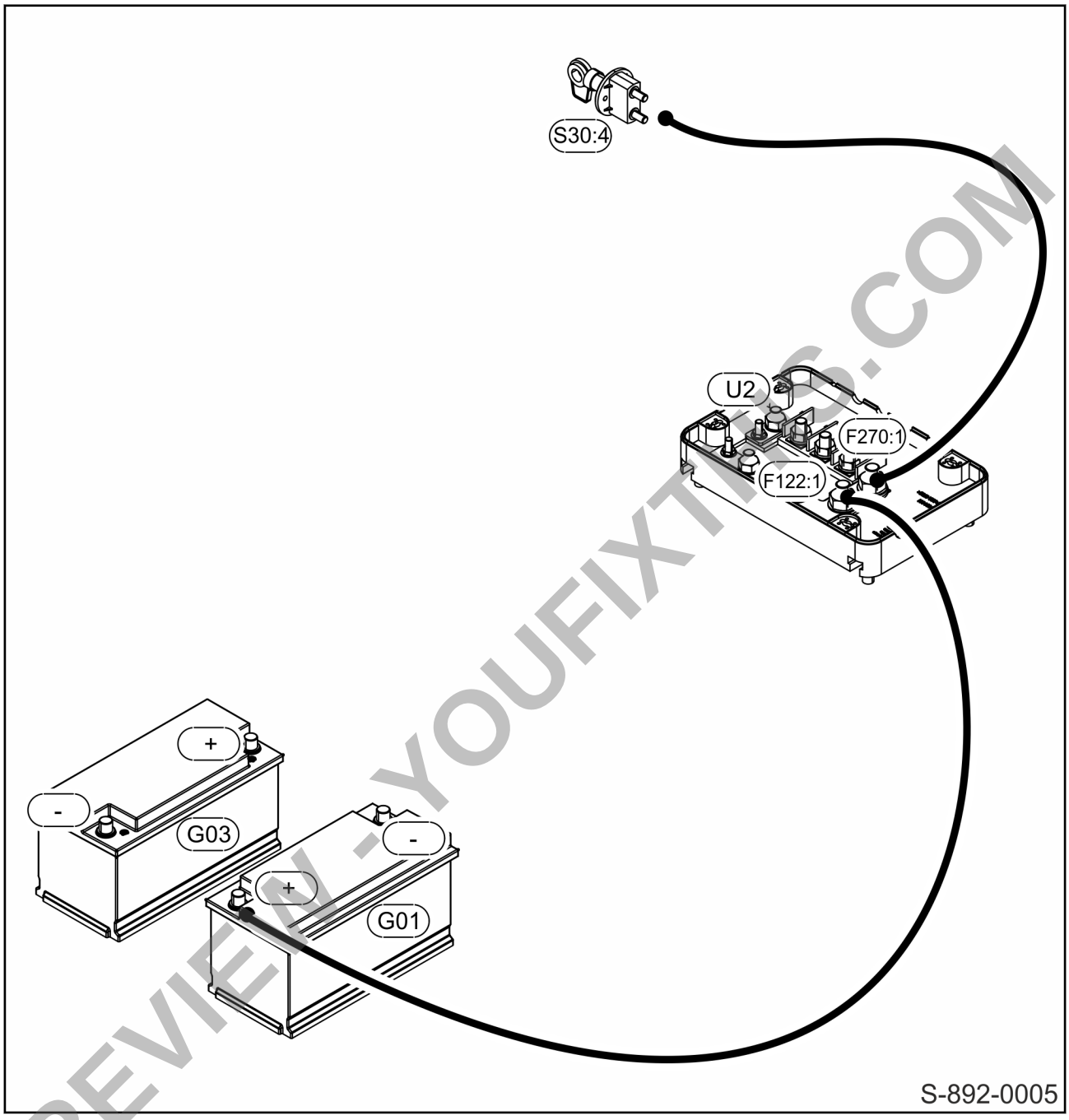


Fig. 19

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Fault code					Diagnostic code				
Code	Operating equipment		Fault description		Code	min.	max.	[ ]	Comment
3013	R101	Potentiometer, pressure screed at standstill	Voltage above normal range or short circuit to (+) potential	X68:7	3032	700	7000	mV	
3014	R102	Potentiometer, screed locking time	Voltage below normal range or short circuit to ground	X68:8	3034	700	7000	mV	
3015	R102	Potentiometer, screed locking time	Voltage above normal range or short circuit to (+) potential	X68:8	3034	700	7000	mV	
3016	R123	Potentiometer, balance	Voltage below normal range or short circuit to ground	X68:9	3036	700	7000	mV	R123 optional equipment
3017	R123	Potentiometer, balance	Voltage above normal range or short circuit to (+) potential	X68:9	3036	700	7000	mV	R123 optional equipment
3020	Y230	Solenoid valve, pressure adjustment for screed relief	Current too low or interruption of power	X68:43	3041	40	720	mA	Min. value may be "0", if voltage < 25.6 V Max. value may be below the setpoint, depending on the max. potentiometer value
3021	Y230	Solenoid valve, pressure adjustment for screed relief	Voltage above normal range or short circuit to (+) potential	X68:43	3041	40	720	mA	Min. value may be "0", if voltage < 25.6 V Max. value may be below the setpoint, depending on the max. potentiometer value

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	Designation	Note
	Charge control light	Lights up if the battery is not being charged. Check the V-belt drive, if necessary repair the generator.
	Pre-heating control light	Lights up during pre-heating.
	Parking brake warning light	Lights up when the parking brake is applied.
	Neutral position indicator	Lights up when the travel lever is in neutral position.
	Travel stage control light	Lights up when the working speed range is switched on.
	Control light for transport speed range	Lights up when transport speed range is switched on.

INFO 1 display field

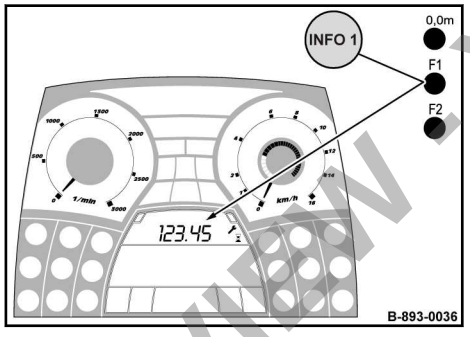


Fig. 45

Function key F1

Press	to change the INFO 1 display field between: ■ Operating hours ■ Fuel consumption (l/min) ■ Fault code display

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Adapting the stop ramp, manual operation

Action	Result
■ Start the diesel engine	
■ Enter code *„0001“*.	■ The system changes to service mode. ■ The display shows a tool symbol.
■ Enter code *„4072“*.	■ The display shows the actual value of the start ramp.
If the value is to be increased: ■ Press key *[F1]*.	■ In the display the value keeps increasing as long as the key *„F1“* is pressed.
If the value is to be reduced: ■ Press key *[F2]*.	■ On the display, the value keeps decreasing as long as the key *„F2“* is pressed.
Once the desired value has been reached: ■ Press button *[F1]* and button *[F2]* together.	■ The display shows *„0000“*.
■ Enter code *„4073“*.	■ The display shows the currently set value. ■ The adjusted value is saved ■ The display shows *„DONE“* ■ This is followed by*„0000“*.
■ Enter code *„0000“*.	■ This quits service mode.

Input code

NOTICE!

Observe the “Input codes display general” section!
↪ *„Operation“ on page 118*

Adapting the start ramp, automatic operation

Action	Result
■ Start the diesel engine	
■ Enter code *„0001“*.	■ The system changes to service mode. ■ The display shows a tool symbol.
■ Enter code *„4074“*.	■ The display shows the actual value of the start ramp.
If the value is to be increased: ■ Press key *[F1]*.	■ In the display the value keeps increasing as long as the key *„F1“* is pressed.
If the value is to be reduced: ■ Press key *[F2]*.	■ On the display, the value keeps decreasing as long as the key *„F2“* is pressed.
Once the desired value has been reached: ■ Press button *[F1]* and button *[F2]* together.	■ The display shows *„0000“*.

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Closed circuit

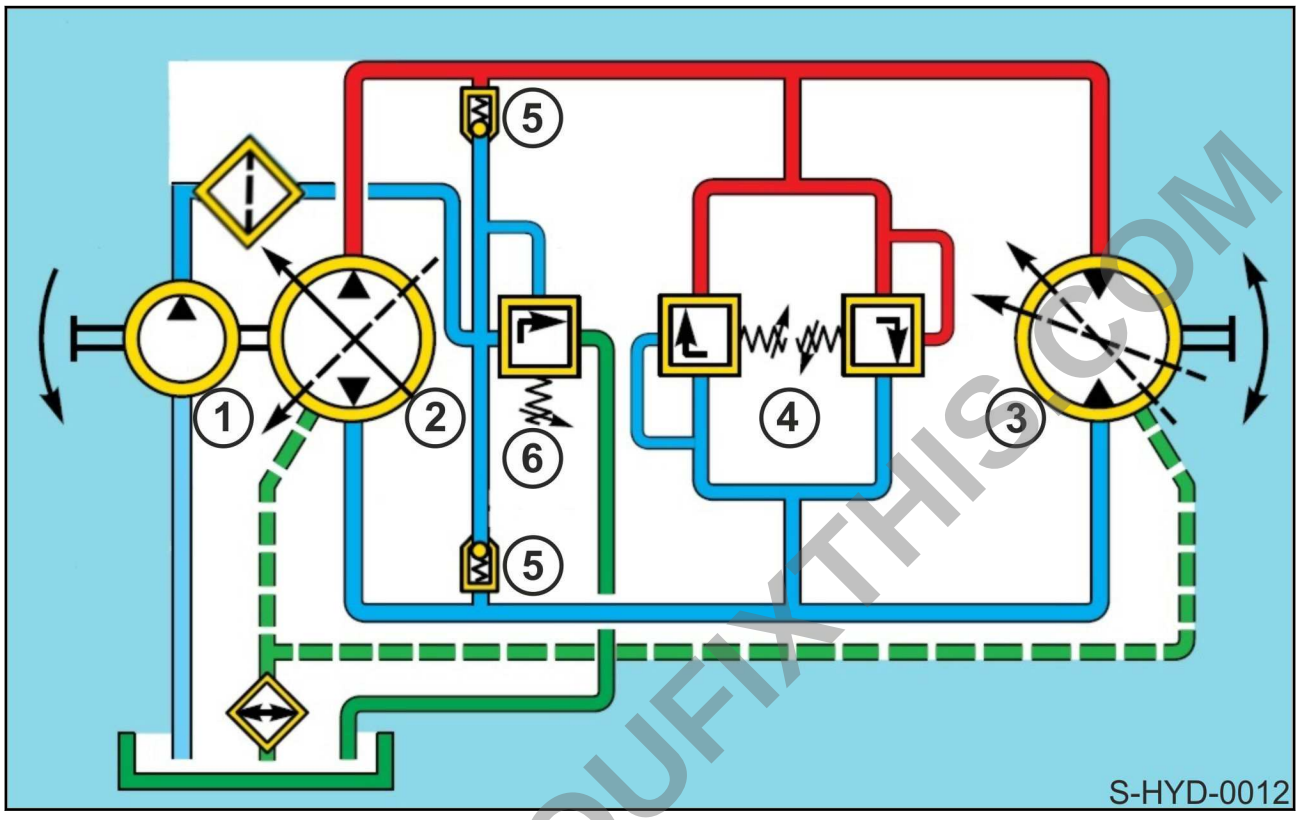


Fig. 74: Closed circuit

One talks about a closed hydraulic system, when the hydraulic oil flows from the consumer (3) directly back to the pump (2).

The closed circuit consists of a high and a low pressure side, depending on the load direction (take-off moment on the consumer).

The high pressure side is protected by high pressure relief valves (4), which release oil into the low pressure side. The medium remains in the circuit.

Only the leakage on pump and motor needs to be replenished. This is accomplished by a charge pump (1) which permanently draws a sufficient amount of hydraulic fluid (charge capacity) from the tank and feeds it through a check valves (5) into the low pressure side of the closed circuit. The excess quantity delivered by the charge pump flows through a charge pressure relief valve (6) back into the tank. Charging the low pressure side enables the pump (2) to work with higher operating data.

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Setting the crown manually to zero position

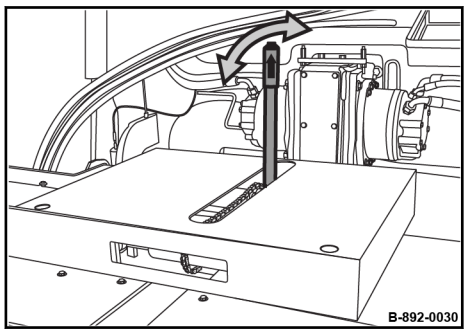


Fig. 121

3. Pull out the handle ↳ Fig. 121 and adjust the crown with the lever (ratchet function).
4. Turn the handle to change the adjusted direction.

Checking the zero position

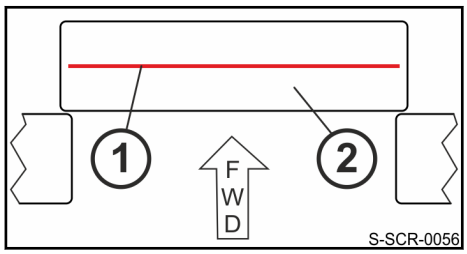


Fig. 122

1. Use a straight edge (1) ↳ Fig. 122 to check the zero setting of the crown on the wear plate (2) of the main screed!

*If this check with the straight edge reveals, that the crown is **not** in zero position, the crown needs to be adjusted. ↳ „Set the crown to zero position“ on page 227*

If the check with the straight edge shows that the crown is in zero position, but the scale shows a value unequal "0", the scale must be adjusted .

The crown may be deadjusted, even when the scale shows "0"! Do not just rely on the scale!

Adjusting the scale

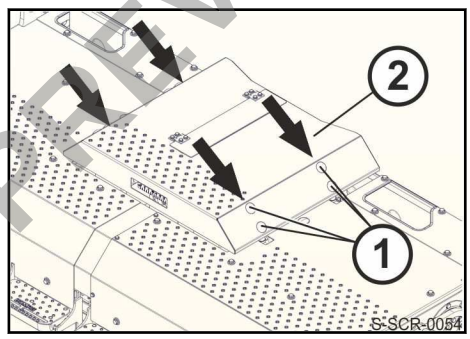


Fig. 123

1. Remove the end plugs (1) ↳ Fig. 123 from both sides of the hood (2).
2. Remove the nuts and washers from underneath.
3. Take off the hood (2) of the crown adjustment.

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Assembling the transverse struts

NOTICE!

The number of struts used may vary in dependence on the attachment parts used.

All struts contained in the attachment kit must always be assembled to the paver!

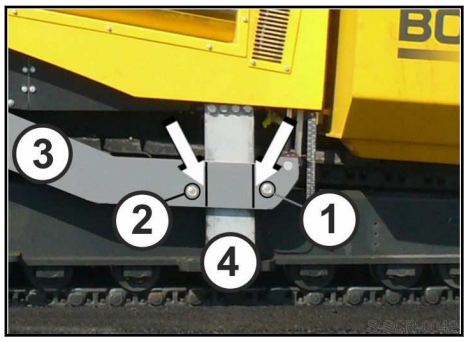


Fig. 180

1. Lower the screed to the ground.
2. Move the paver slowly, until the front (1) and rear (2) guide rollers on the inside of the pulling arm (3) **no longer** touch the vertical strut (4).

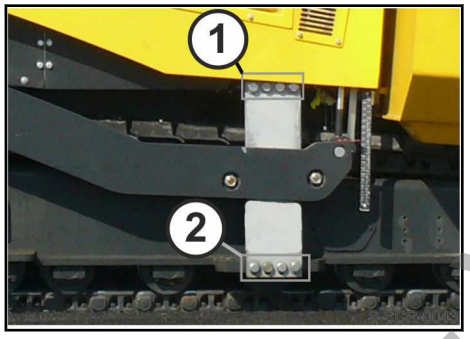


Fig. 181

3. Screws **at top** (1): **only** loosen
4. Unscrew the bottom screws (2).

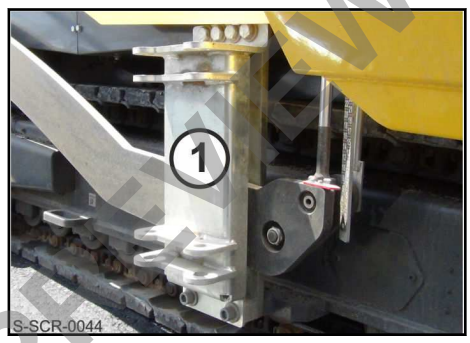


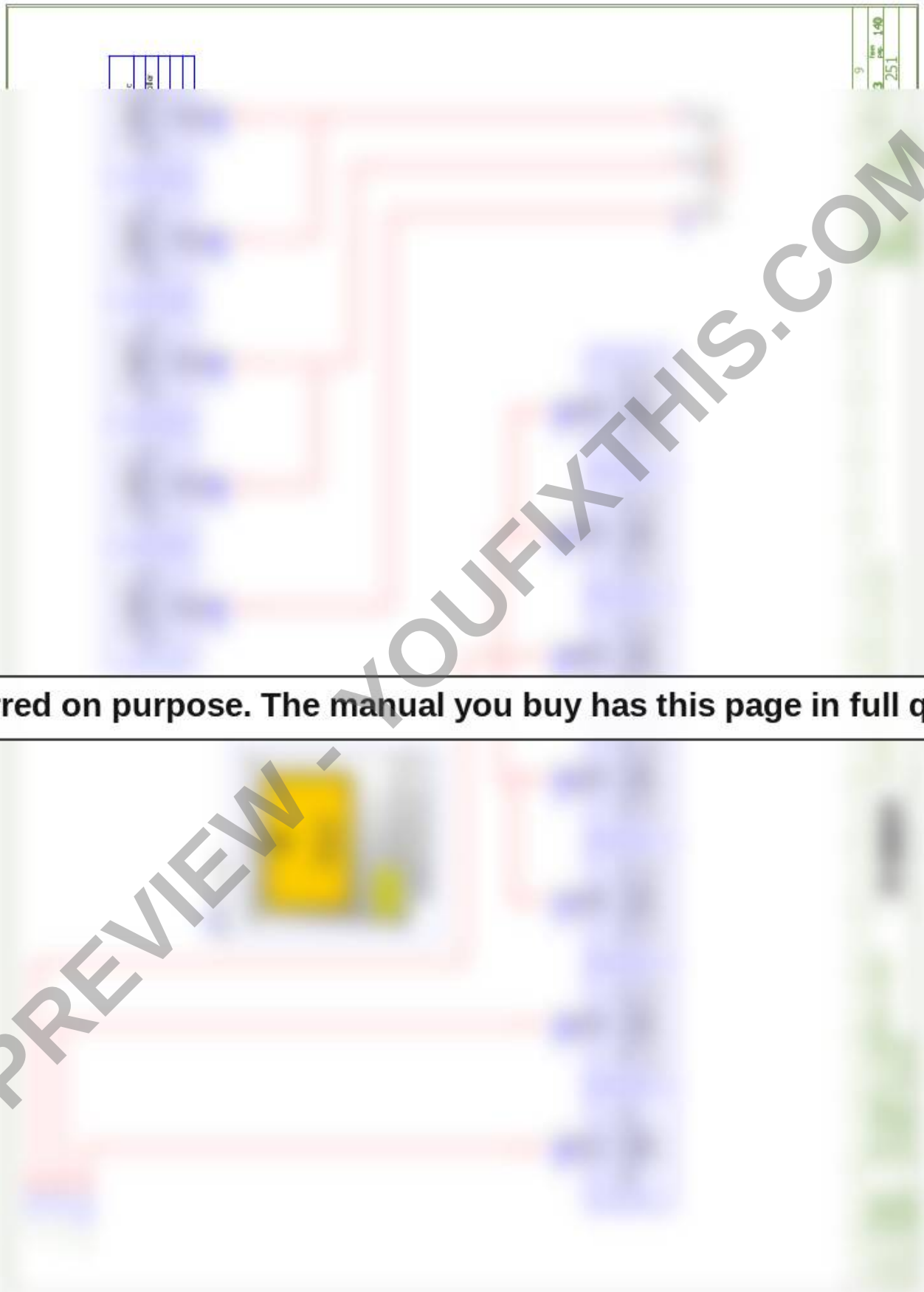
Fig. 182

5. Position the bracket (1) for the tie rods and fasten it with the screws (M20 x 60) contained in the installation kit as shown.

The screws in the attachment kit are longer than the original screws!

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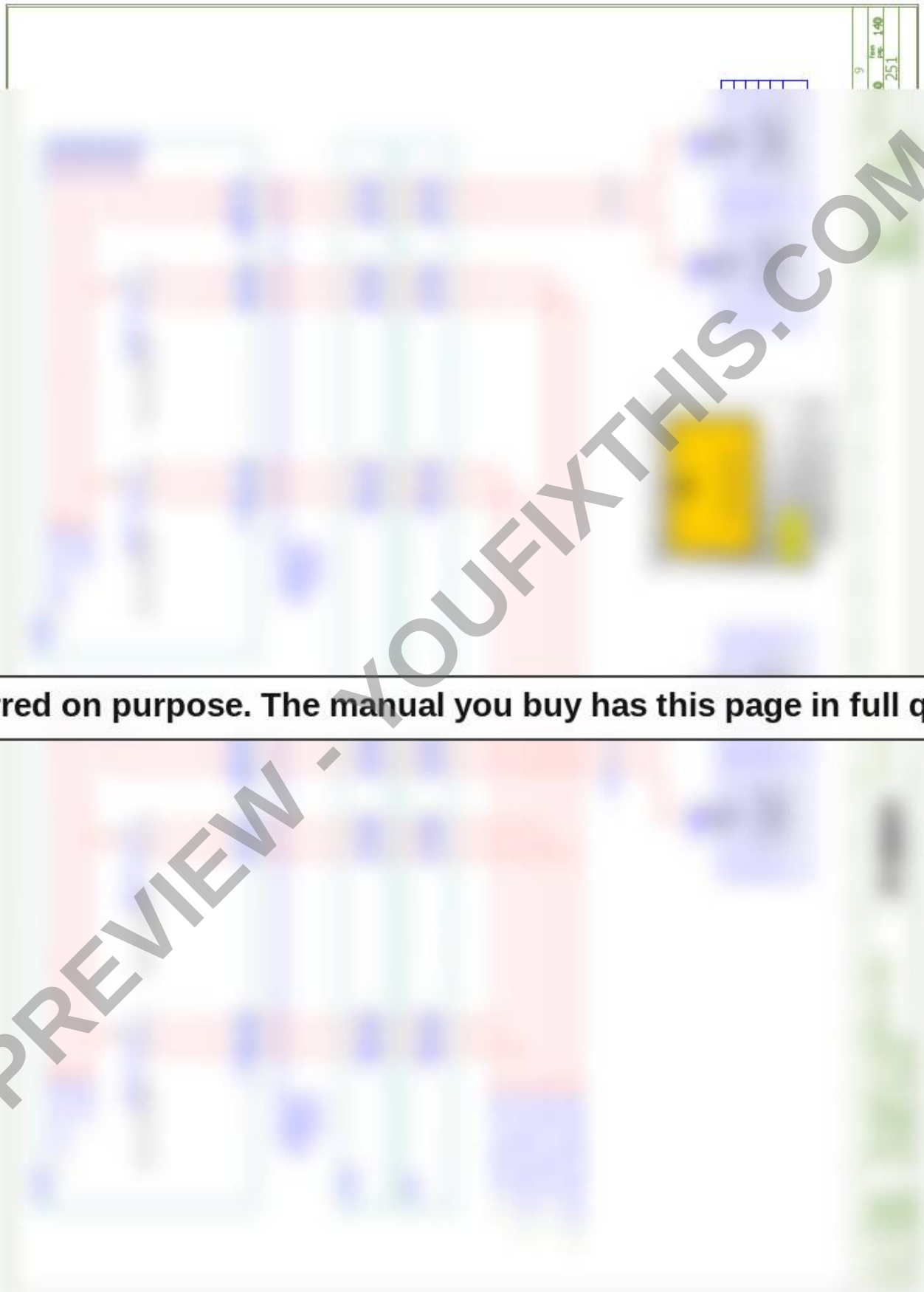


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Wiring diagram 251



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Terminal strip overview
descrizione della striscia terminale

X3.W3

Dashboard
Dashboard

Mounting location
montaggio località: =BF+EBOX

Device tag SEF	Page pagina	Path col
X3.W3:1	74	2
X3.W3:2	74	2
X3.W3:3	74	2
X3.W3:4	74	3
X3.W3:5	53	2
X3.W3:6	53	6
X3.W3:7	39	4
X3.W3:8	48	2
X3.W3:9	68	8
X3.W3:10	72	5
X3.W3:11	48	4
X3.W3:12	72	6
X3.W3:13	48	1
X3.W3:14	48	1
X3.W3:15	48	3
X3.W3:16	48	3
X3.W3:17	53	1
X3.W3:18	53	1
X3.W3:19	53	3
X3.W3:20	53	4
X3.W3:21	53	5
X3.W3:22	53	5
X3.W3:23	61	3
X3.W3:24	61	3
X3.W3:25	61	5
X3.W3:26	61	5
X3.W3:27	38	1
X3.W3:28	38	1
X3.W3:29	37	2
X3.W3:30	32	3
X3.W3:32	47	7
X3.W3:33	47	7
X3.W3:34	67	4
X3.W3:35	67	4
X3.W3:36	70	4
X3.W3:37	70	4
X3.W3:38	70	6
X3.W3:39	70	6
X3.W3:40	69	1
X3.W3:41	39	3
X3.W3:42	25	6

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BF700C EDC16

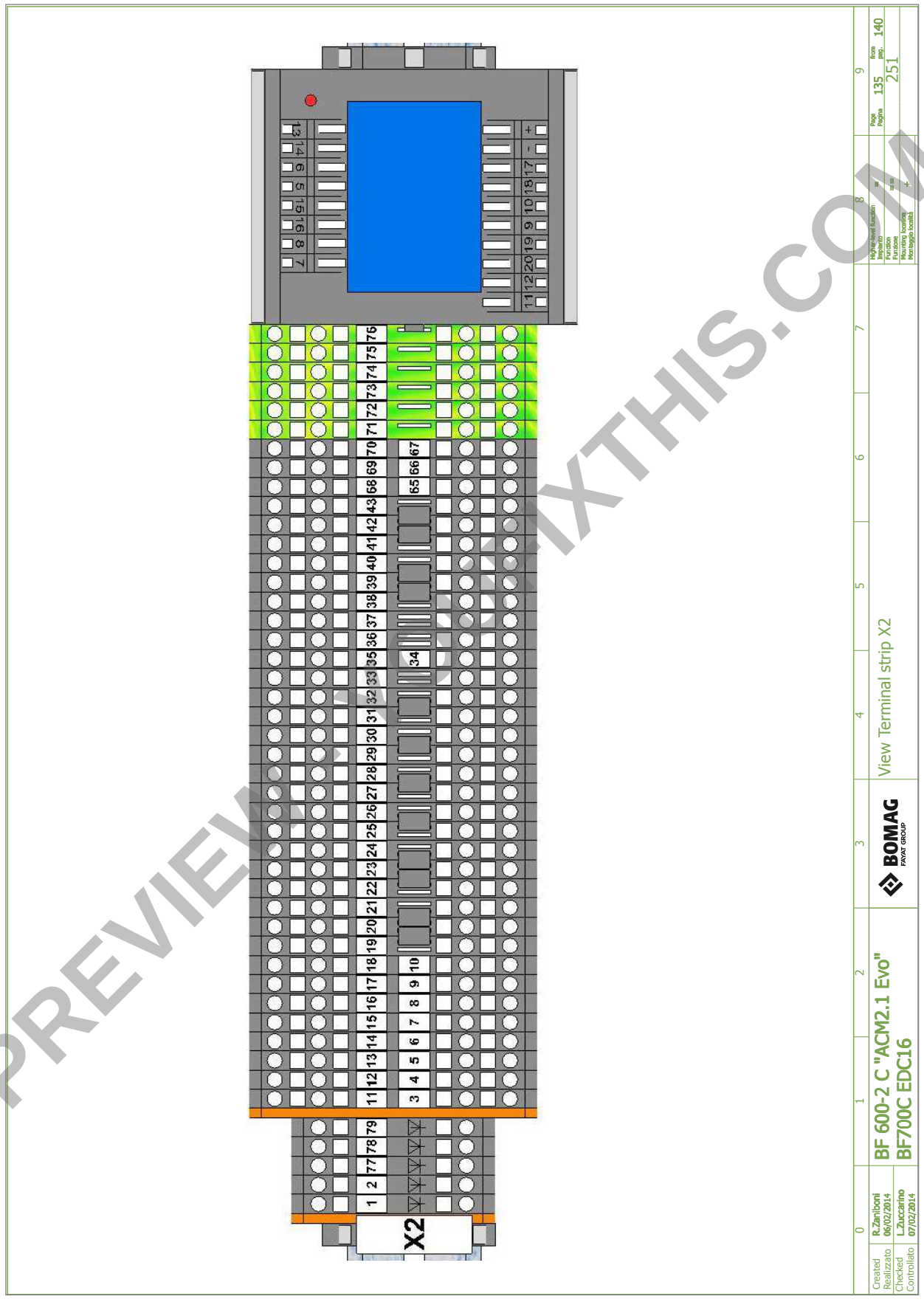
BOMAG FAYAT GROUP

Terminal diagram

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