



Repair Manual for BIOSTAR® 4-Aligner


4 Repair instructions replacement
heater / thermocouple

Repair instructions replacement heater / thermocouple

ERROR 002 Heater 3030.916R or thermocouple 3030.827 defective → Replace them

1

Before taking any further action, please first perform a heater test via the maintenance menu.
This is to determine whether the heater is still functional.

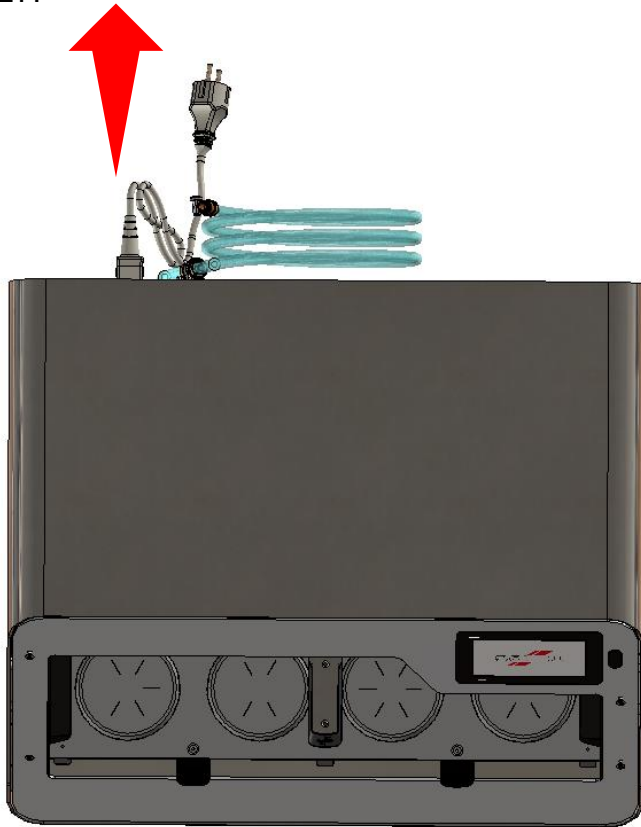
- Go to the Settings menu 
- Select the 'Maintenance' menu item
- Perform the heater test, follow the instructions on the display and restart the device after a successful test.



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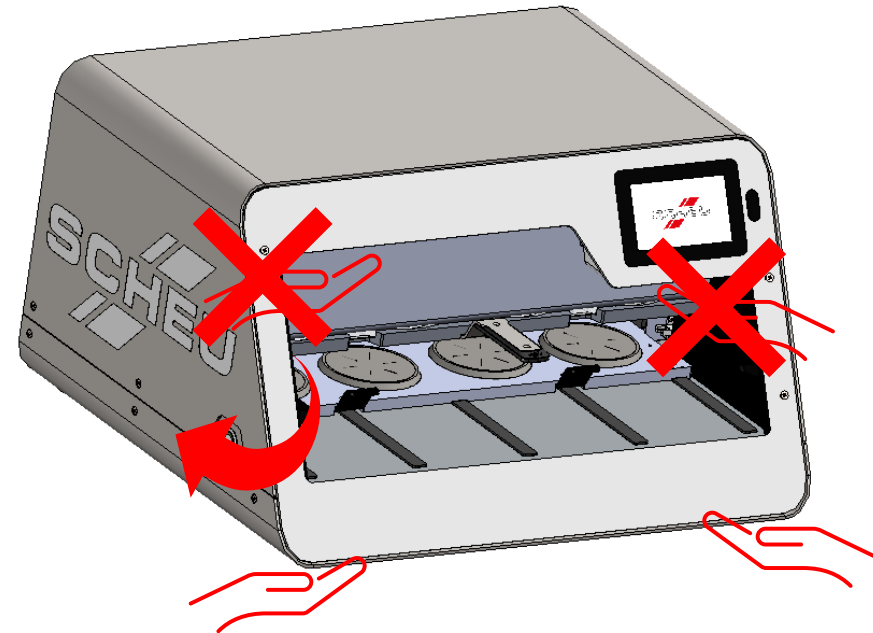
2 DISCONNECT THE DEVICE FROM THE POWER SUPPLY!



3 Turn the appliance so that you can reach the screws on both sides.

Do NOT lift the device by the FRONT panel but reach under the device!

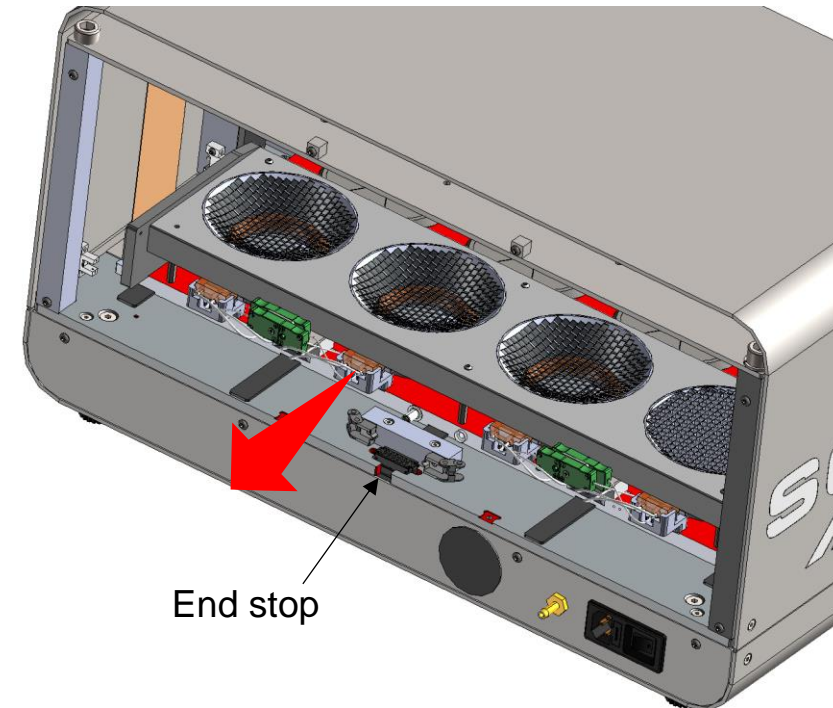
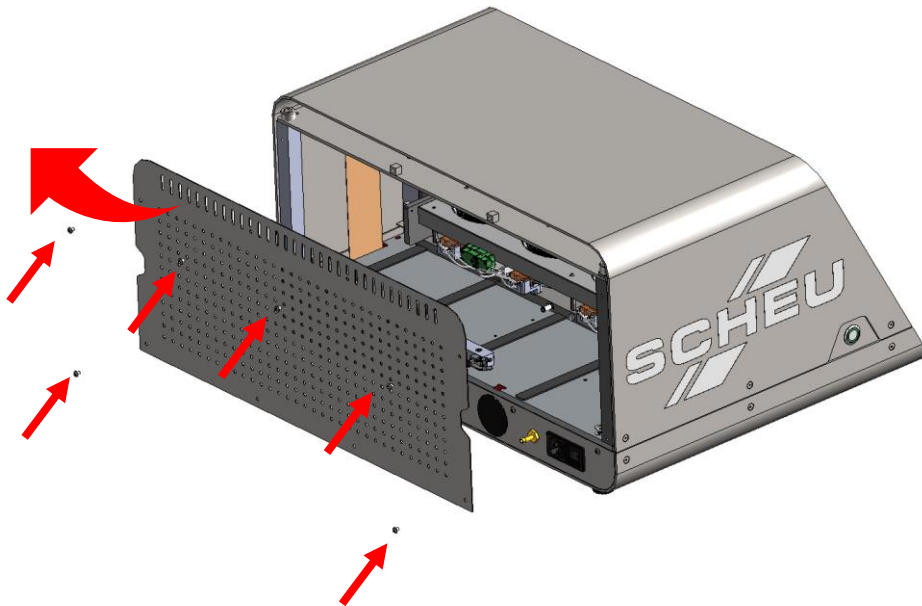
Make sure that the current software version is installed.



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- 4** Loosen the 6 screws on the back panel and put the back panel to one side.
- 5** Pull the base plate with the heater back as far as it will go.

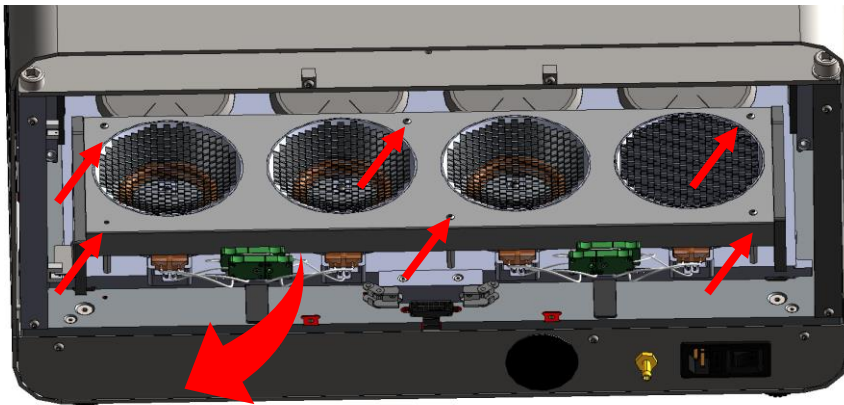


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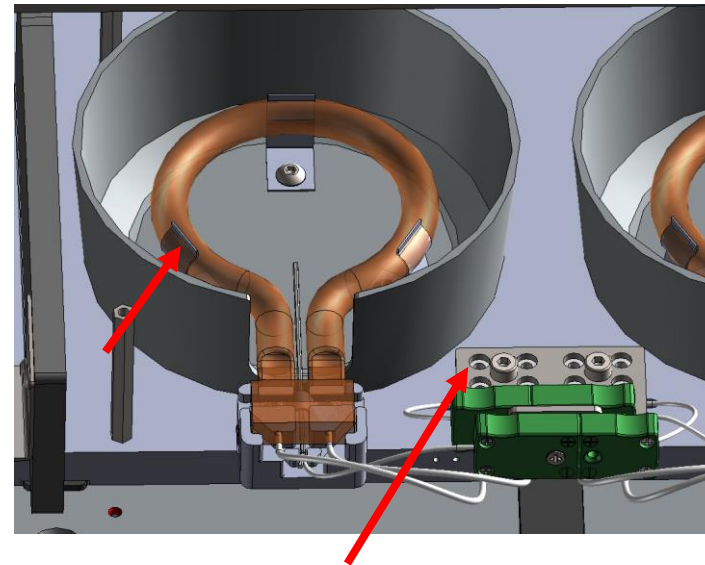
Loosen the 6 screws on the heater protection screen and put it to one side.



7

Select the heater you want to change.

- Loosen the clamping screws in the porcelain clamp that contacts the cable and pull out both cables of the heater.
- Slightly stretch the spring holding the heater and carefully lift the heater out.



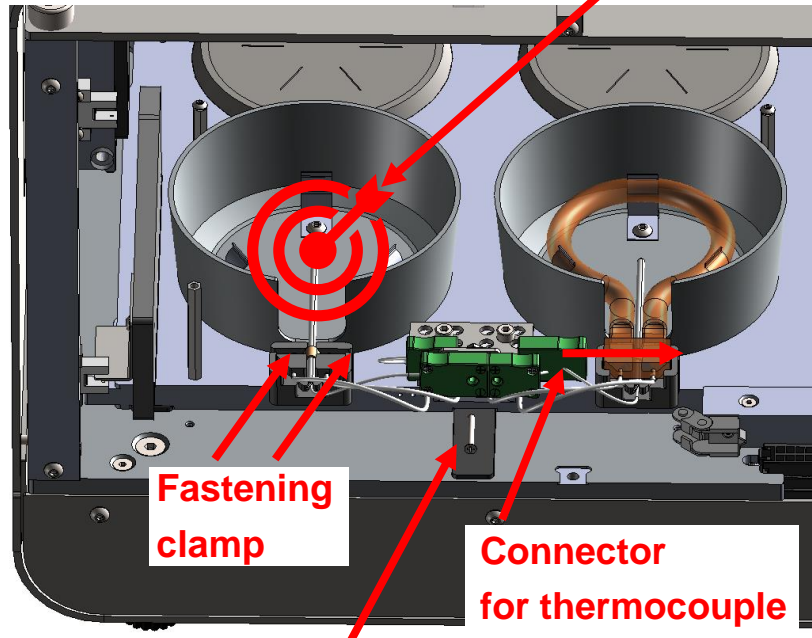
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8

If you want to replace the thermocouple, the heater must be removed as explained up to this point. Loosen the two screws of the fastening clip and remove it.

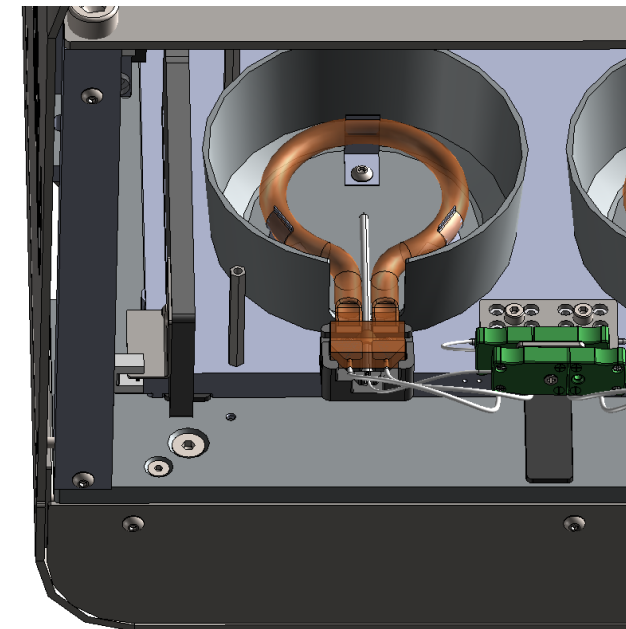
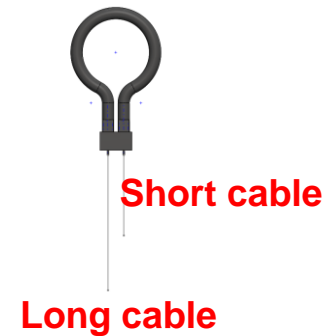
Loosen the screw of the plug for the thermocouple (green), pull it out and insert the new thermocouple. Position the thermocouple so that it is centred to the reflector.



9

Reinstall the new heater or the one removed to replace the thermocouple, preferably wearing gloves. To do this, bend the springs apart and carefully clamp the heater.

Ensure that the heater is installed with the side of the short cable facing the porcelain clamp.

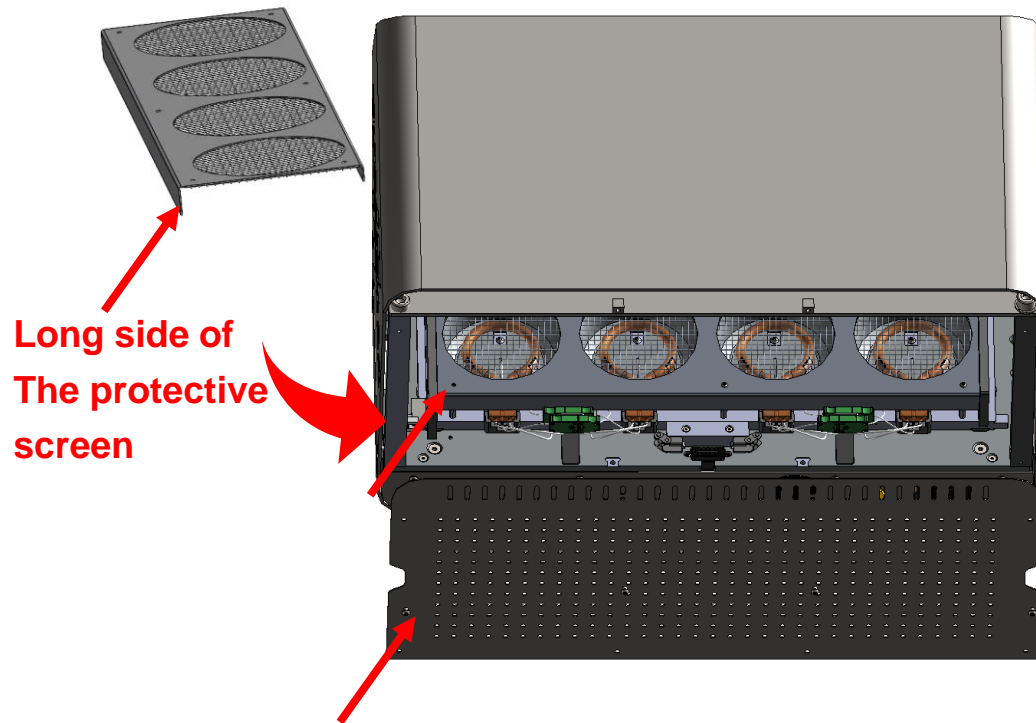


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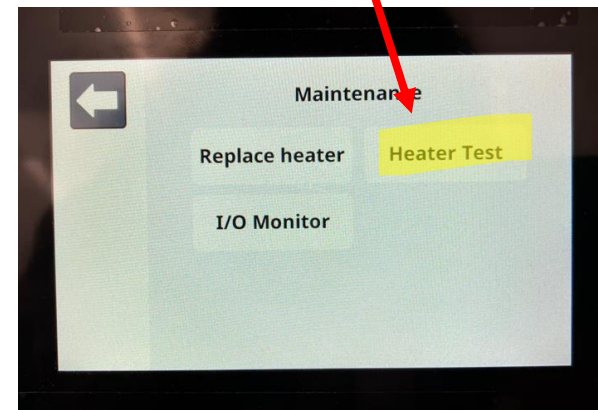
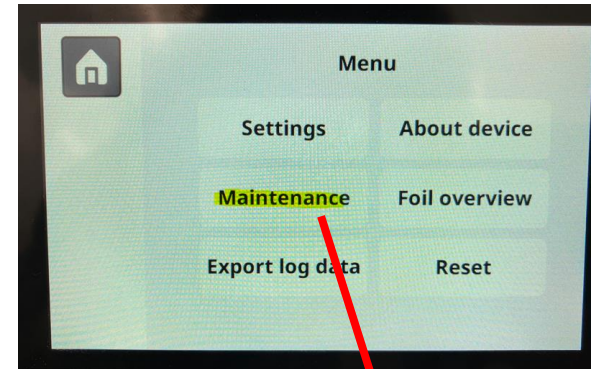
10

Finally, fit the protective screen 3030.700 for the heater and screw on the rear panel. Make sure that the long side of the protective screen is facing the back wall when inserting it.



11

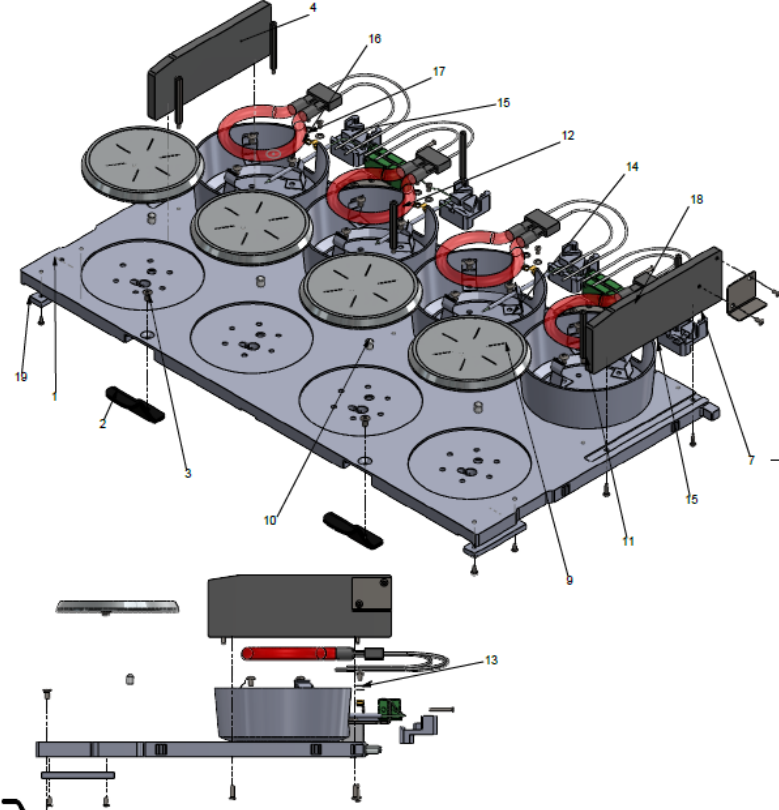
Perform the heater test in the software programme to check whether everything has been installed correctly.



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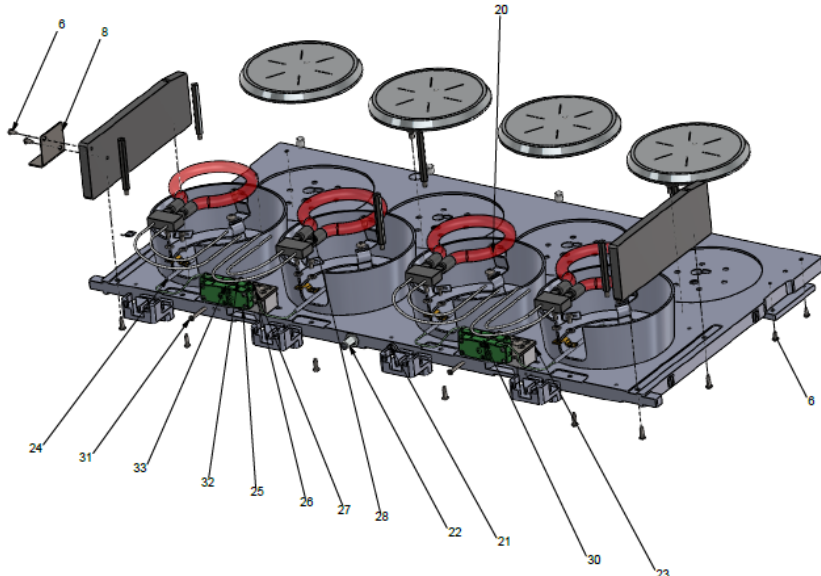
NR.	REF	BESCHREIBUNG	MENGE	B1	B2
1	3030_117_V3	Grundplatte für Modellstützplatte	1	X	
2	3030_211	Griff für Modellstützplatte	2	X	
3	3030_555	Senkschraube mit Innensechskant M4x8 DIN 7991 V2	2	X	
4	3030_120	Seitenwand Links	1	X	
5	3030_535	Flachkopfschraube mit Innensechskant M3x10 ISO 7380	8	X	
6	3030_533	Flachkopfschraube mit Innensechskant M3x8 ISO 7380	6		X
7	3030_119	Seitenwand rechts	1	X	
8	3030_209	Sensorplatte	1		X
9	3030_820_V1	BG Modellstützplatte	4	X	
10	3030_513	Federndes Druckstück A6	4	X	
11	3030_908	Distanzbolzen M3x45 mit Gewinde M3x5	6	X	
12	3030_210	Reflektor	4	X	
13	3130_982	Abgewinkelter Kontaktstecker	1	X	
14	3130_515	Schenkel Feder	12	X	
15	3030_121	Montagestück Strahler	4	X	
16	3100_524	Befestigungsschelle 2-Loch	4	X	
17	3125_205	Unterlegscheibe 3mm vz	8	X	
18	3125_217	Schraube M3 x 5 DIN 7985/ISO 7045	8	X	
19	3030_515	Rechteckmagnet 30x13,5x5	2	X	
20	3030_536	Flachkopfschraube mit Innensechskant M4x8 ISO 7380	12		X
21	3030_517	Gummianschlag	1		X
22	3030_516	Softdämpfer	1		X
23	3030_944	Aderendhülse 0,75mm²	9	X	
24	3030_837	BG Thermoelement	4	X	
25	3030_909	Porzellanklemme X	2	X	
26	3030_224	Blech f. Steckverbindung Thermokabel	2	X	
27	3030_562	Flachkopfschraube ISO 7380 - M5 x 30 - 30N	4	X	
28	3030_916R	Omegastrahler	4	X	
30	3030_923	Gegenstück Adapter für Thermoelement	4	X	
31	3030_567	Senkschraube DIN 985 (ISO 7406) M2,5x22	2	X	
32	3030_567	Ökant-Mutter M2,5 DIN 934 (ISO 4032) A2	2	X	
33	3030_922	Steckverbinder Thermoelement Mutter	4	X	




SCHEU		Algemeines Bauteil nach ISO 2768	Maßstab 1:2
		Datum 21.01.2025	Werkstoff
		Zeichner	Grundplatte Strahler
		Gezeichnet	BIOSTAR 3-Aligner
		Überflächenangabe nach DIN ISO 1502 Reihe 2	3030_821_V1
		Blatt 1 von 2	A2

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2	3030_211	Griff für Modellstützplatte	2	X	
3	3030_565	Senkschraube mit Innenschkant M4x8 DIN 7991 V2	2	X	
4	3030_120	Seitenwand Links	1	X	
5	3030_535	ISO 7380 - M3 x 10 - 10N	8	X	
6	3030_533	ISO 7380 - M3 x 6 - 6N	6		X
7	3030_119	Seitenwand Rechts	1	X	
8	3030_209	Sensorplatte	1		X
9	3030_820_V1	B/G Modellstützplatte	4	X	
10	3030_513	Federndes Druckstück A6	4	X	
11	3030_906	Distanzbolzen M3x45 mit Gewinde M3x5	6	X	
12	3030_210	Reflektor	4	X	
13	3130_982	Abgewinkelter Kontaktstecker	1	X	
14	3130_515	Schenkelfelder	12	X	
15	3030_121	Montagestück Strahler	4	X	
16	3100_524	Befestigungsschelle 2-Loch	4	X	
17	3125_205	Unterlegscheibe 3 mm vz	8	X	
18	3125_217	Schraube M3x5 DIN 7985	8	X	
19	3030_515	Rechteckmagnet 30x13,5x5	2	X	
20	3030_536	Flachkopfschraube mit Innenschkant M4x8 ISO 7380	12		X
21	3030_517	Gummianschlag	1	X	
22	3030_516	Softdämpfer	1	X	
23	3030_944	Adernendhülsen 0,75mm²	9	X	
24	3030_837	B/G Thermoelement	4	X	
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28	3030_916R	Omegastrahler	4	X	
30	3030_923	Gegenstück Adapter für Thermoelement	4	X	
31	3030_567	Senkschraube DIN 965 (ISO 7406) M2,5x22	2	X	
32	3030_568	6kant-Mutter M2,5 DIN 934 A2	2	X	
33	3030_922	Steckverbinder Thermoelement Mutter	4	X	



Abgemacht
Inhaltsnach
ISO 2786

Gezeichnet: 31.01.2025
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Überflächenanweisung nach
DIN ISO 1502 Teil 2

Material: 1:2
Werkstoff:

Grundplatte Strahler

BIOSTAR 4-Aligner

3030_821_V1

Blatt
2 von 2
A2