



BGB
High Power Electronic
Crimping Tool
Model 6

PN 297060

Operation Guide

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Manual Part Number: DR-BGB-1907
July 2019

Safety Notices

CAUTION

A CAUTION notice warns of a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

Manual Part Number

DR-BGB-1907

Edition

First edition, July 2019

www.bgb-shop.com

WARNING

A WARNING notice warns of a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.



Recycling

For recycling contact your local BGB distributor.



Maintenance and Cleaning

General maintenance

The high power electronic crimping tools do not contain user serviceable parts.

Support and Repair

If the crimping tool is still in the warranty period, contact BGB Analytik office for support. If the warranty period has expired, please contact BGB Analytik. Find contact details on www.bgb-shop.com.

Cleaning

The crimping tool may not be immersed in water or solvent. The outside of the case may be cleaned with an ordinary detergent and wiped off with a damp rag. Care should be taken not to get the electronics wet.

Avoid permitting metal parts of the crimping tool to come into contact with corrosive material during use. If they do, try to wipe them clean with a suitable mild neutralizing solution.

Storage and Shipping

To prevent accidental cycling when storing or shipping the tool, remove power and place the protective cap over the jaws.

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Product Content



Part No. **Description**
297060 High Power Electronic Crimping Tool



Part No. **Description**
295061 Base with Mounting Kit
 (Crimping Tool not included)

Crimper Jaw Set



Description	8mm	11mm	13mm	13mm for Flip Off Caps	20mm	20mm for Flip Off Caps
Part No.	295062	295063	295064	295065	295066	295067

Decapper Jaw Set



Description	11mm	13mm	20mm
Part No.	295068	295069	295070

Safety and Regulatory Certifications



The BGB Electronic Crimping Tools are designed and manufactured under a quality system registered to ISO 9001.

Symbols

Warnings in the manual or on the instrument must be observed during all phases of operation, service and repair of this instrument. Failure to comply with these precautions violates safety standards of design and the intended use of the instrument. BGB assumes no liability for the customer's failure to comply with these requirements.

See accompanying instructions for more information.



Remember to wear safety glasses when crimping or decapping.



The crimper or decapper jaws can pinch severely.
Never insert fingers into the crimping or decapping tool jaws.



You must not discard this electrical/electronic product
in domestic household waste.



Instrument Specification

Sound pressure

Sound pressure LpA = 79 dB(A).

Intended use

Electronic Crimping Tools are intended for use in a laboratory environment, all other uses are prohibited.

Limits

Temperature 15 - 35 °C

Maximum humidity 75%

Pressure 0.75 - 1 bar

Warnings

Warnings

WARNING

Wear safety glasses when crimping or decapping.
The crimper or decapper jaws can pinch severely.
Never insert fingers into the crimper or decapper.

CAUTION

Do not disassemble or dispose of in fire.
Use only the 12 v DC power supply supplied with the crimping tool.
Use of other batteries may cause fire during charging or use.
Only change jaws after the power supply has been disconnected or the tool has been locked.
Do not heat above 60 °C.
Do not crush or modify.

Disposal of battery

Do not throw the battery away. Recycle it in accordance with local regulations.

Description and Setup

Description

The High Power Electronic Crimping Tool can be used to crimp and decap standard crimp caps on laboratory sample vials. Jaw sets are available in 8mm, 11mm, 13mm and 20mm version or as 13mm and 20mm flip off.

Crimping tool setup

Please read through this entire guide to familiarize yourself with the operation of the tool before proceeding. Use the same degree of care as you would with any precision instrument. If there is any visible damage, contact BGB Analytik immediately.



Operation

Connecting the power supply

Connect the 12 v DC supply to an electrical outlet with the power cord provided, and also to the connector on top of the crimping tool. (see Figure 1)



Figure 1. Power supply connector at the top of the HPS crimper

Settings



Push

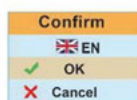
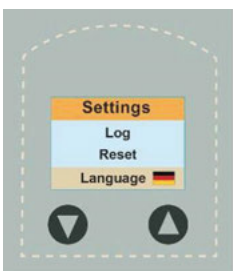


and

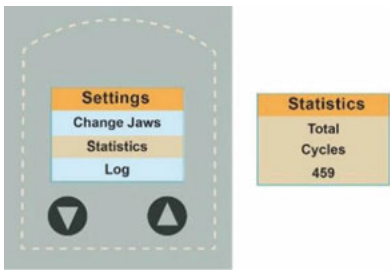


Language selection

Press the cycle button to make a selection.



Statistics



Using the Tool for Crimping

The cycle button must be held down until the crimp is complete. If the switch is released early the crimper will retract and show an error.



Adjust the crimper setting for satisfactory form and tightness.



CAUTION

Note: Crimping the same vial two times will not generally give the same results and sometimes will result in vial breakage.

Special considerations for 20 mm Headspace vials. It is common practice to use the "twist test" to check headspace vials for satisfactory crimps. Many sealing systems hold pressure perfectly well so long as the seal is well compressed.

Selecting or changing a jaw set

Disconnect Power (necessary)

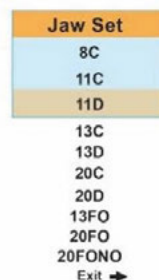
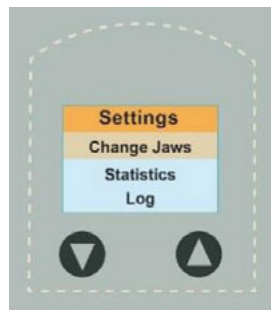


To lock out the tool, press the lock button and rotate.



Insert the jaw set into the bushing at the bottom of the tool. Push up against the spring load and then twist until the set locks into position.

Connect Power

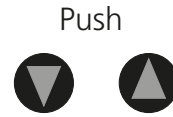


Press the settings button with a pen or small tool. (Or hold the cycle button for 3 seconds after a cycle).

Press ▲ and ▼ to scroll through the menu.



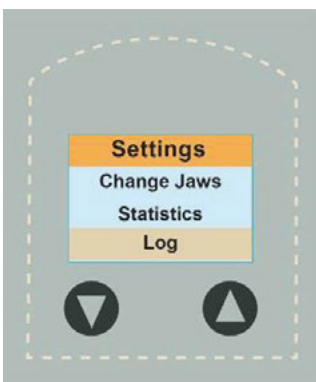
Jaw Set
8C
11C
11D
13C
13D
20C
20D
13FO
20FO
20FONO



Change Jaw Set Menu
Confirm
11 Decap
Cancel X
OK ✓

Use the cycle button to make a selection.

Log of recent crimping results



Log
Cycle 3
Setting 30%
✓

Adjusting the tool for decapping jaws



Probably, the factory settings are satisfactory and it won't be necessary to adjust the decapping jaws. If the caps are not removed sufficiently, the decapper jaws can be adjusted as follows:



The 11mm decapping jaws should close around the neck of the vial and strip the cap off. If the cap is not removed completely, increase the strength of the decapper stepwise by pushing the ▲ button until the cap is removed completely.

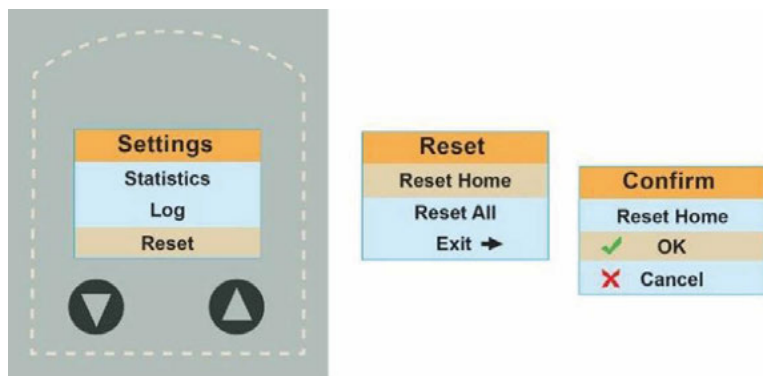
The 20mm decapper jaw set pinches the sides of the cap with the decapping jaws and pushes out the glass vial. If the cap is not removed completely, increase the strength of the decapper stepwise until the cap is removed completely.

CAUTION

Note: Always use a new vial to check the decapping adjustment and be careful: if the decapping jaws are adjusted to be too tight, the vial neck may break and cause injuries. Decrease the decapping force by pushing the ▼ button. 20mm caps with very thin seals cannot be removed with the 20mm decapper jaw set.

Reset

Pressing "reset" is the same as disconnecting and reconnecting power. After selecting the jaw set and pressing the go-button, the crimping tool retracts to the top zero position.







Error Conditions and Display Codes

Error conditions




Errors are identified by Error Messages, normally after a crimp cycle.

Table 1 Error codes

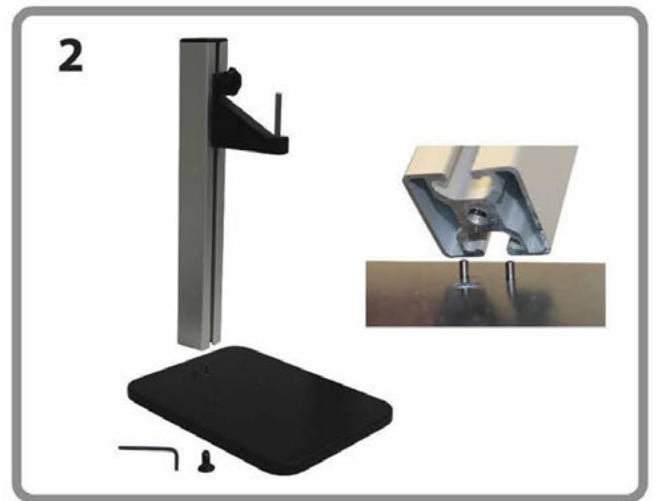
	Error	Possible cause	Recommendation
	Stall	Stall Condition – Crimp Setting is too high.	Adjust crimper to a lower crimp setting by pressing the  button.
	Early Release	Early trigger release – the tool retracted before completing cycle.	Try again, making sure to hold the button down until the tool is returning to the home position.
	Stall but tool does not cycle.	Motor drive failure.	See Maintenance/Repair section for contact information for warranty and repair service information.

Troubleshooting

Table 2 Frequent troubleshooting solutions

Condition	Possible cause	Recommendation
Side of cap is indented. Seal is deformed in hole.	Crimp setting is too high. The crimp is too tight.	Adjust tool to a lower setting by pressing the  button.
Cap spins easily.	Crimp setting is too low. The crimp is too loose.	Adjust crimper to a higher setting by pressing the  button.
Cannot find a good crimp setting.	The crimper is far out of adjustment.	Return crimper to factory setting. See “Reset” above.
Crimping is inconsistent. Some vials are good and some are not.	Vials, caps or seals are inconsistent.	Check crimper by using some standard, approved, vials caps and seals.
	Electronic failure in crimper.	Contact BGB Analytik. Find contact details on www.bgb-shop.com
11mm or 13mm decapper leaves caps hanging on vials.	Decapper adjustment is too low.	Adjust the decapper to a higher setting by pressing the  button.
	Jaws are worn or broken.	The decapper will have to be replaced or repaired. Please go in Contact with BGB Analytik. Find contact details on www.bgb-shop.com
Motor does not come on or moves in one direction only.	Drive circuit failure.	Contact BGB Analytik. Find contact details on www.bgb-shop.com
No activity when power supply is connected	Power supply failure.	Contact BGB Analytik. Find contact details on www.bgb-shop.com

Appendix - Accessory Base for Electronic Crimpers



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