



BGB
Electronic Crimping and Decapping Tools
Model 6

PN

297040, 297041, 297042, 297043, 297044, 297045, 297046, 297047,
297048

Operation Guide

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Manual Part Number: DR-BGB-1908
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-1908

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 electronic crimper tools do not contain user serviceable parts except for the battery pack. When cleaning or replacing the battery make sure to keep fingers away from the jaws!

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, the battery, or the battery connections 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.

Battery Replacement

Use only the specified replacement battery pack, part number 295081.



1. Remove screw holding the battery cover in place.



2. Remove battery cover.



3. Pull battery out of case, leaving wire connected.



4. Push down on connector latch and pull battery loose from the board.



5. Connect new battery to board, making sure the latch is secure. Push battery into case, bending the wires if necessary.

6. Slide the cover back into the case and replace the retaining screw.

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Product Content



Part No.	Description
297040	8mm Crimper Model 6
297041	11 mm Crimper Model 6
297042	13 mm Crimper Model 6
297043	13 mm Crimper Model 6 for Flip Off Caps
297044	20mm Crimper Model 6
297045	20mm Crimper Model 6 for Flip Off Caps
297046	11 mm Decapper Model 6
297047	13 mm Decapper Model 6
297048	20mm Decapper Model 6

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 = 70.1 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.
Use only the 7.5 volt DC Power Supply supplied with the crimper for battery charging.
Use only the specified replacement battery pack, part number ????.

Special battery warnings

WARNING

Risk of burns; battery may explode or catch fire if mishandled.

CAUTION

Do not disassemble or dispose of in fire.
Use only the manufacturer-supplied 7.5 volt DC power supply and charge the battery only in the crimping tool.
Use of other batteries may cause fire during charging or use.
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 Electronic Crimping Tool can be used to crimp and decap standard crimp caps on laboratory sample vials.

Crimping tool setup

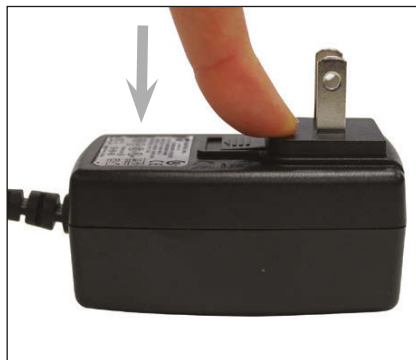
Please read through this entire guide to familiarize yourself with the operation of the tool before proceeding. Use the same degree of care as you would with any precision instrument. If there is any visible damage, contact BGB Analytik immediately.



Operation

Charging the Battery

The battery must be charged before the crimper or decapper can be used.



An indicator appears when recharging is necessary.





Compatible Vials, Caps and Seals

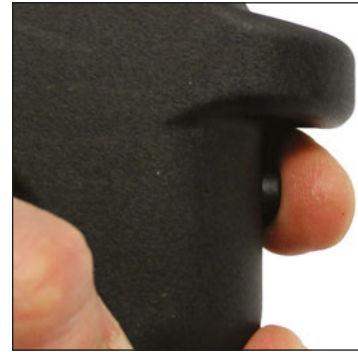
BGB electronic crimping tools may not be used with Steel Caps or Bi-Metal Caps. Aluminum caps and seals of standard size and thickness are appropriate.

Settings



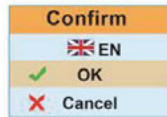
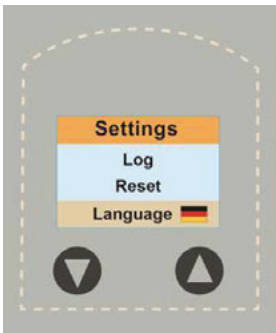
Press the Settings Button with a pen or small tool. (Or hold the Cycle Button for 3 seconds after a cycle).

Press  and  to scroll through the menu.

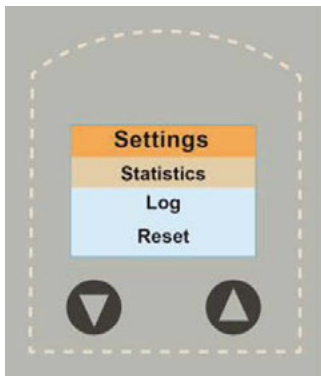


Press the cycle button to make a selection.

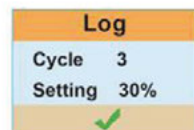
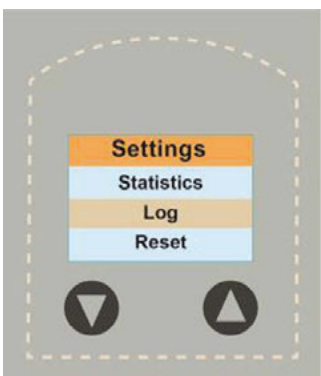
Language selection



Statistics



Log of recent crimping results



Using the Tool - Crimping Version

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.

Using the Tool - Decapping Version

Adjusting the tool for decapping jaws



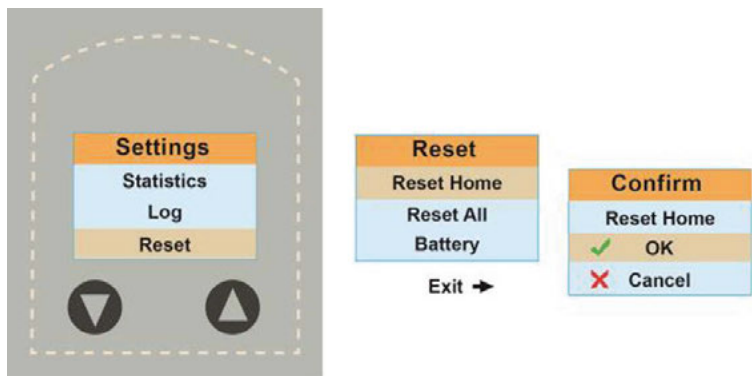
CAUTION

Note: Always use a new vial to check the decapping adjustment and be careful: if the decapping settings 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 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.
	Stall Condition – Battery does not have sufficient charge.	Recharge battery.
 Early Button 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.
 Battery low Indicator	Battery needs to be charged.	Charge battery (See Page 8).
 Battery low indicator (after charging 24 hours)	Charge Circuit 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

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