



Electronic Crimping Tools

Operation Guide

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Operations Guide

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	Model Number
Electronic Crimping Tool HPS	60180-ECRHB
Electronic Crimping Tool HPS 11 mm Kit with Crimper and Decapper Jaw Sets	60180-ECRH11KIT
Electronic Crimping Tool HPS 13 mm Kit with Crimper and Decapper Jaw Sets	60180-ECRH13KIT
Electronic Crimping Tool HPS 20 mm Kit with Crimper and Decapper Jaw Sets	60180-ECRH20KIT
Related Items	Item Number
Accessory Base for Electronic Crimpers	ECRH-STAND
11 mm Crimper Jaw Set	ECMJ-11
20 mm Crimper Jaw Set	ECMJ-20
20 mm Flip-Off Crimper Jaw Set	ECMJ-20FO
8 mm Crimper Jaw Set	ECMJ-8
13 mm Crimper Jaw Set	ECMJ-13
13 mm Flip-Off Crimper Jaw Set	ECMJ-13FO
11 mm Decapper Jaw Set	ECDJ-11
20 mm Decapper Jaw Set	ECDJ-20
13 mm Decapper Jaw Set	ECDJ-13

Markings



Warnings

- Follow all instructions or injury may result.
- Wear safety glasses when crimping or decapping!
- The crimper or decapper jaws can pinch severely.
- Only change jaws after the power supply has been disconnected or the tool is in Settings Mode.
- Never insert fingers into the crimper or decapper.
- Use only the 12 volt DC Power Supply supplied with the crimping tool.



Intended Use

Electronic Crimpers and Decappers are intended for use in a laboratory environment.



Prohibited Use

All other uses are prohibited.

Limits

Temperature 15°C to 35°C
Humidity not more than 75%
Pressure 0.75 to 1 bar

Sound Pressure

Sound pressure $L_{pA} = 79$ dB(A)

Recycling

For recycling contact Thermo Scientific or your local Thermo Scientific distributor.



Description

The Electronic Crimping Tool HPS can be used to crimp and decap standard crimp caps on laboratory sample vials. A variety of jaw sets can be used to accommodate the most popular sizes.

Crimping Tool Setup

Remove the instrument, power supply and cable from the shipping container. If there is any visible damage contact your supplier immediately.

Operation

Connecting the Power Supply

Connect the 12 volt DC supply to the mains with the power cord provided and also to the connector on top of the crimping tool.



Compatible Vials, Caps and Seals

Standard aluminum or steel caps or two-part caps with aluminum sides and magnetic tops together with seals of standard size and thickness are appropriate. 20 mm caps with very thin seals cannot be removed with the 20 mm decapper jaw set.

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.



Notes

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 HPS Tool for decapping

The adjustment is not very important when decapping. As shipped from the factory the decapper should remove a cap satisfactorily.

To adjust decappers make sure that the stroke is long enough to remove the cap.



Settings



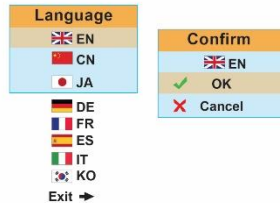
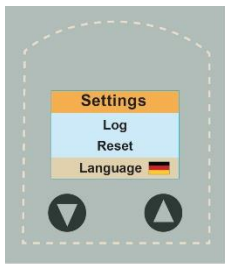
To Enter Settings Mode

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

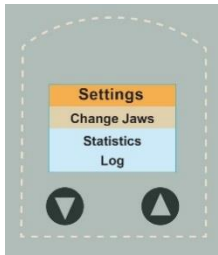
Press ▲ and ▼ to scroll through the menu.

Use the Cycle Button to make a selection.

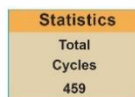
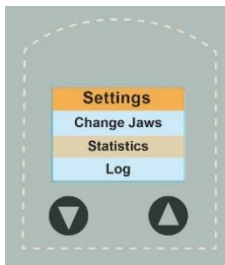
Language selection:



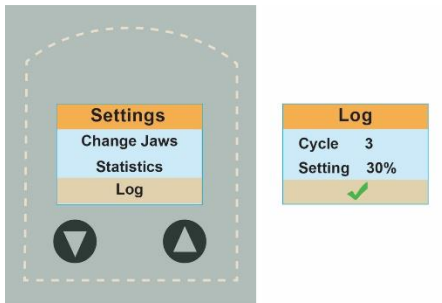
Jaw Set Selection:



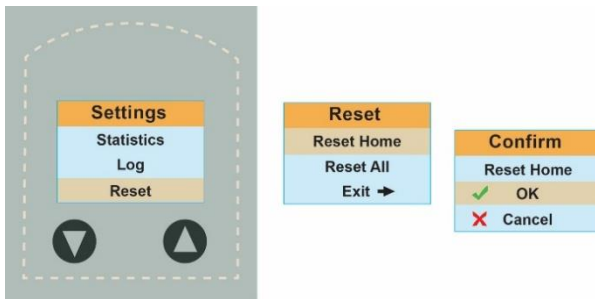
Statistics:



Log of recent crimping results:



Reset:






Storage and Shipping

Place protective cap over the jaws to prevent accidental cycling when storing or shipping the tool.

Error Conditions

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

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

General Maintenance

The electronic crimper tools do not contain user serviceable parts.

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 contact corrosive material during use. If they do, try to wipe them clean with a suitable mild neutralizing solution.

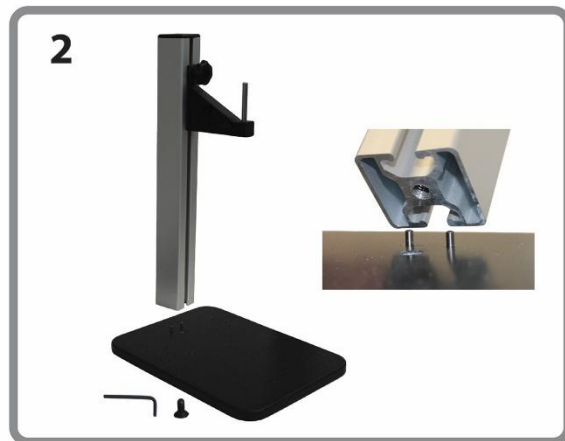
Troubleshooting

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 crimper to a lower crimp 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.	Please see instructions for “Support and Repair”, below.
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	Please see instructions for “Support and Repair”, below.
Motor does not come on or moves in one direction only.	Drive circuit failure.	Please see instructions for “Support and Repair”, below.

Support and Repair

If the crimping tool is still in the warranty period, contact your dealer for support. If the warranty period has expired, please visit www.thermofisher.com/vials for information about the crimper repair service.

Appendix A - Accessory Base for Electronic Crimpers



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