



SPECIFIC UNPACKING INSTRUCTIONS FOR **CRCMD-002**

DELICATE INSTRUMENT, HANDLE WITH CARE!

STEP 1



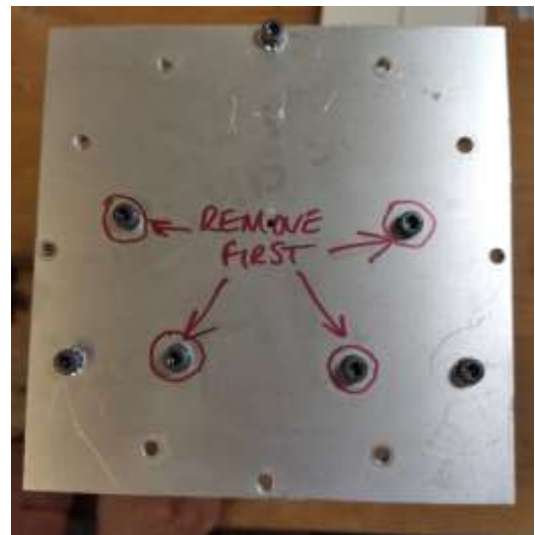
Open the shipping box and carefully remove the top layer of packing foam and loose bubble wrap packing from around the cryocooler.

The shipping brace is a tight fit inside the box. Hold the steel uprights clearly marked **REMOVE HERE** to carefully lift the cryocooler out of the box. You may need help from a second person.

Stand the cryocooler, in its shipping brace, on a clean flat surface with the cryopumps (the stainless steel cylinders) at the top. Remove any additional pieces of foam packing from around the cryopumps. Take great care not to damage the wiring or the gas pipes. Be particularly careful not to damage the copper capillary gas fill tubes that are coiled beneath the circular main plate.

STEP 2

Remove the M5 bolts securing the pumps into the aluminum plate. The black plastic inserts holding the pumps will remain in place until you are ready to install the cryocooler into your system.



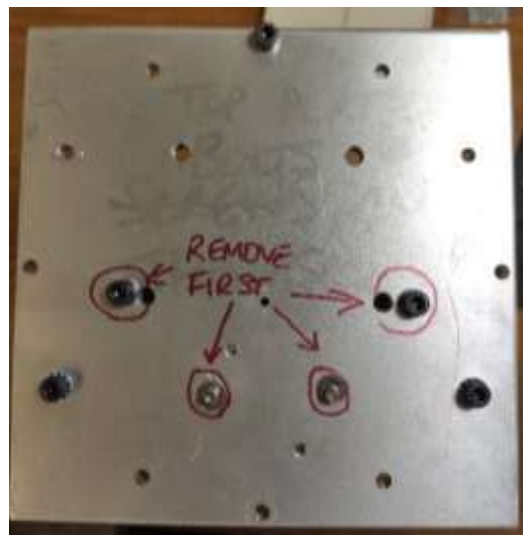
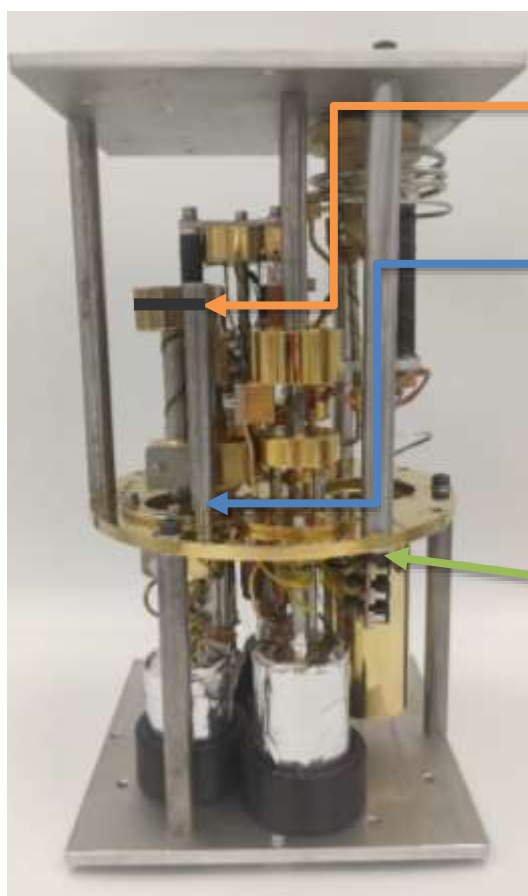
STEP 3

Carefully flip over the cooler in the brace, with the pumps now at the bottom.

Remove any tape used to help brace the struts against the other.

Remove the UNC4 bolts securing the mixing chamber to the top plate of the brace – hold the mixing chamber to relieve any twisting forces as you unscrew the bolts.

Remove the M5 bolts used to locate the 4He cold head.

**STEP 4**

Remove the zip tie used to secure the 3He cold head against the steel upright.

Remove the 2x M4 bolts underneath the mainplate which holds the steel upright and carefully remove the strut.

Unscrew the 3X M5 bolts underneath the mainplate that hold the upper steel struts in place and remove the struts. Once the top plate of the shipping brace has been removed, the struts used to locate the 4He heads should be removed.

STEP 5

When you are ready to install the cryocooler into your cryostat, unscrew the 3x M5 bolts through the mainplate that hold it to the lower steel struts.

Lift the cryocooler clear of the shipping brace, holding it by the circular main plate. Check that there are no small pieces of packing foam left between the cryopumps and the mainplate. The plastic pump supports may attach to the pumps, these can be pulled off.

Before installing and using your cryocooler, read through the safety information and the operating instructions in the generic manual. Download the manual specific to your cryocooler model at:

<http://www.chasecryogenics.com/Products.htm>

