

Taking Down TOFII

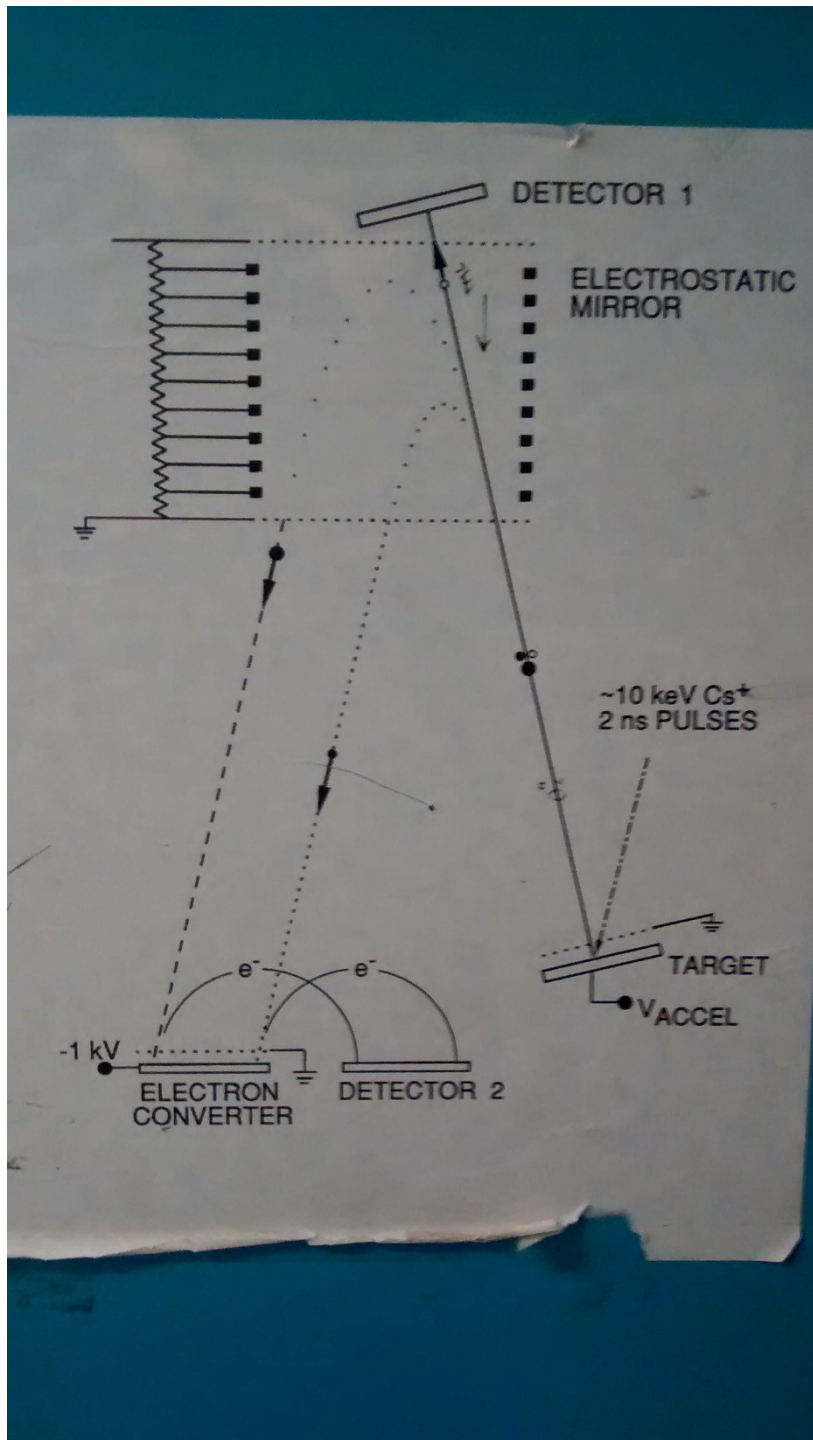
Note:

The original Time-Of-Flight II will be collected by the Canadian Science & Technology Museum. This note shows the disassembling process.

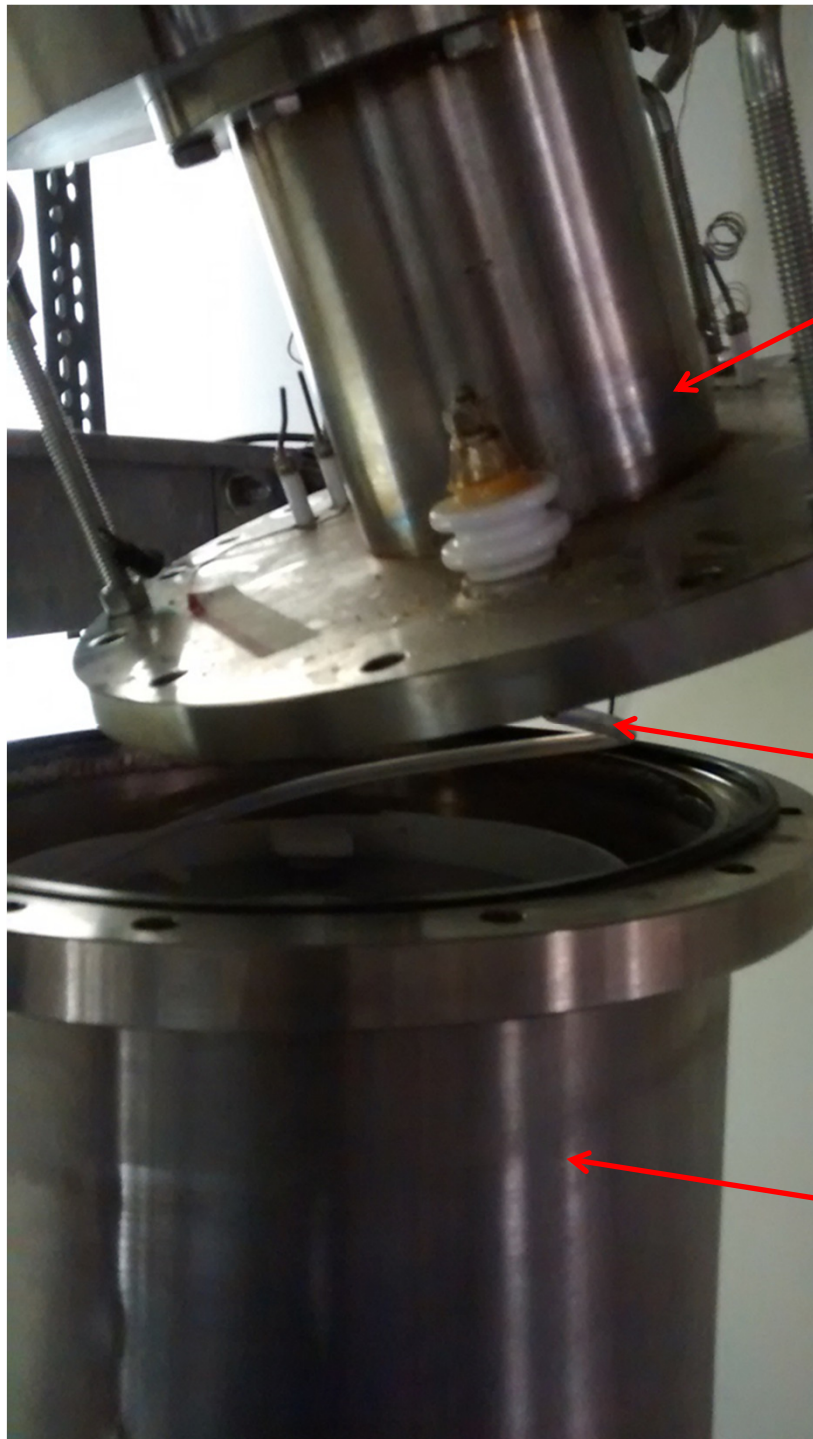
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20/12/2016



TOF II in its original location
(505 Allen Bldg, Time-of-Flight
Spectroscopy Lab) before being taken
down



Schematic diagram



Top section was unbolted & lifted

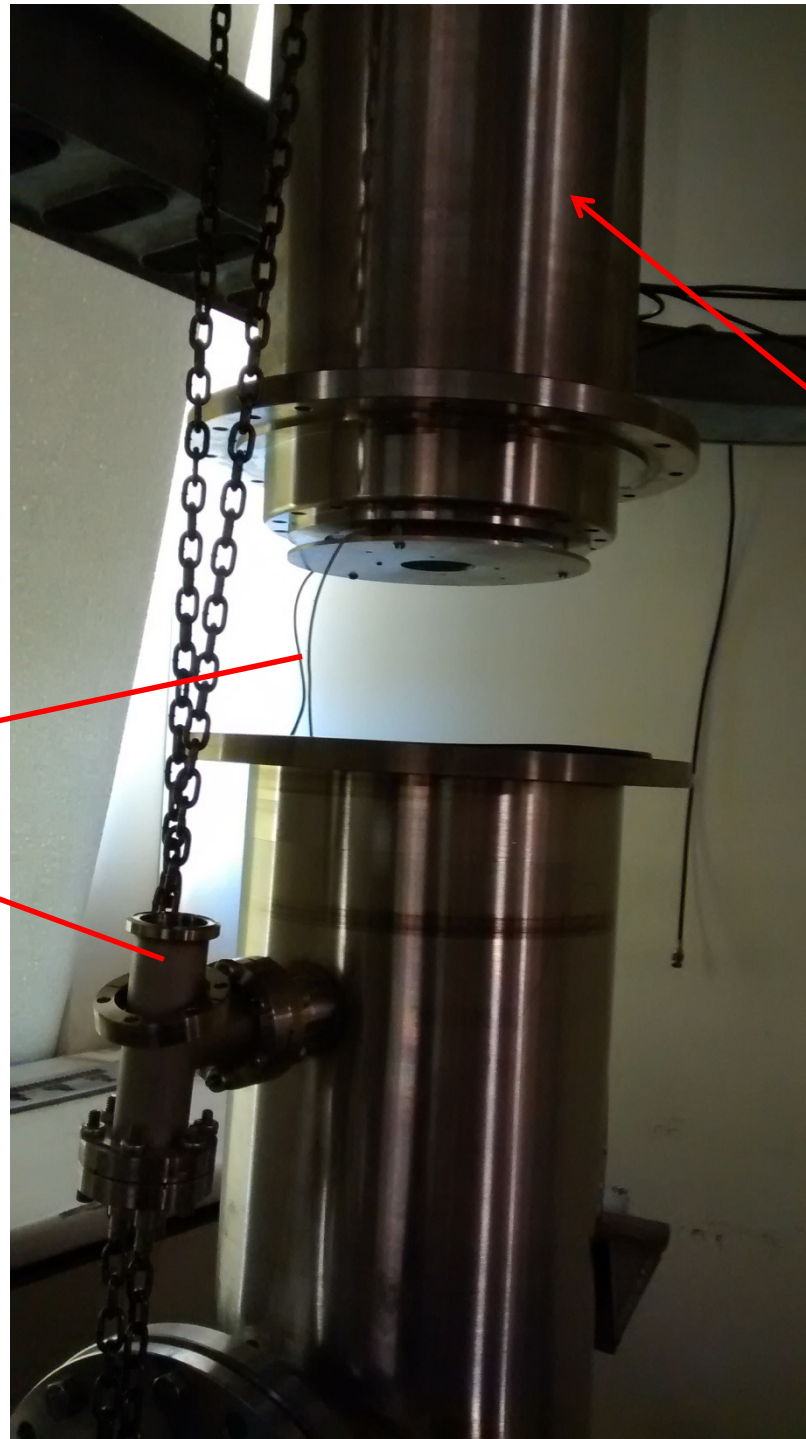
HV cable connected to HV vacuum feedthrough and electrostatic mirror

Electrostatic mirror section

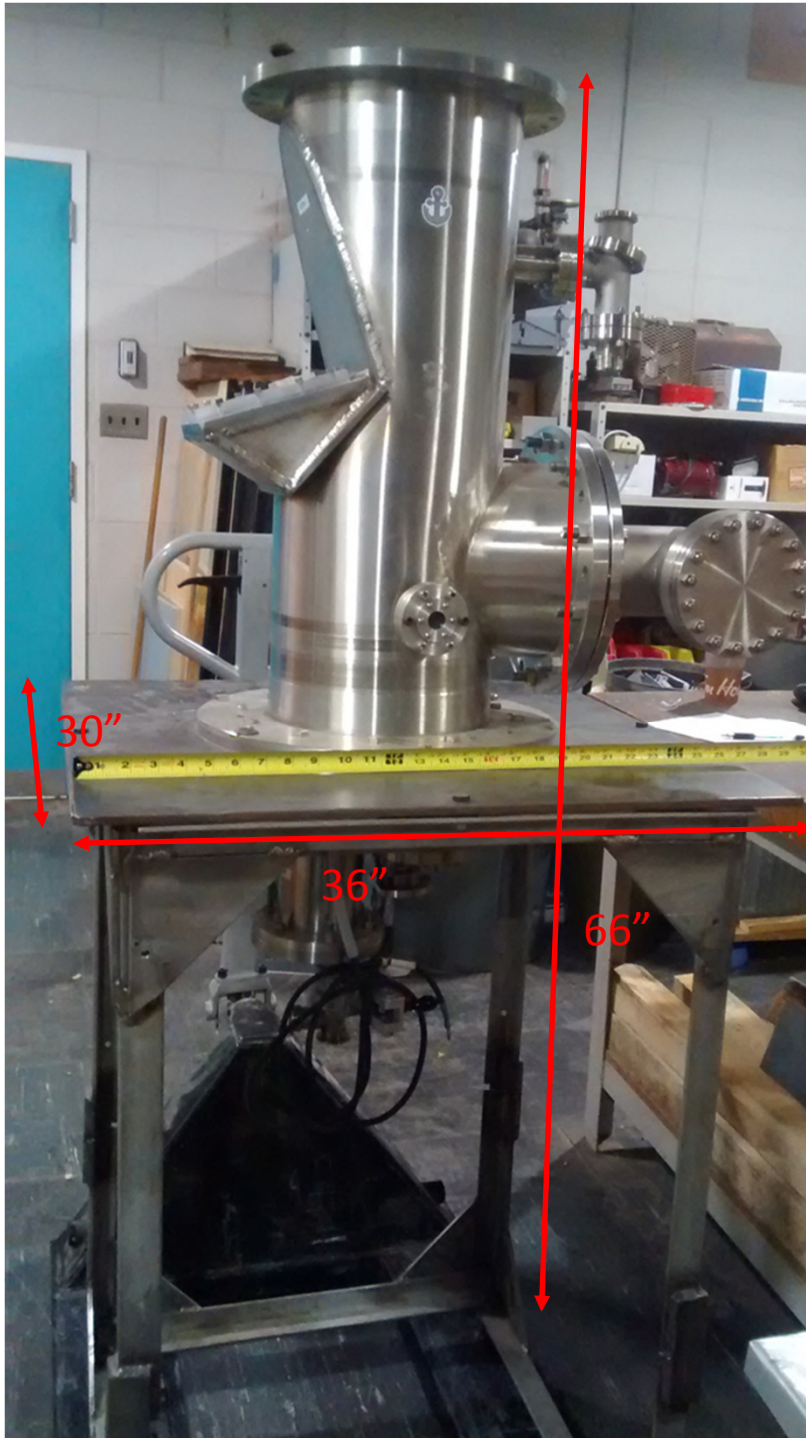


Taking down the top section

Cable connection can
be observed by looking
down



Taking down the mirror
section



Bottom section moved
into workshop

Bottom section here refers to
Section A, E, F (stainless steel parts
in the picture)
and the steel support structure

Footprint: 36" x 30"

Height: 66"

Weight: ~250-300 lb



Electrostatic mirror section (labeled as sect. B) in workshop

Diameter: 12" Height: 18" Weight: 85 lb

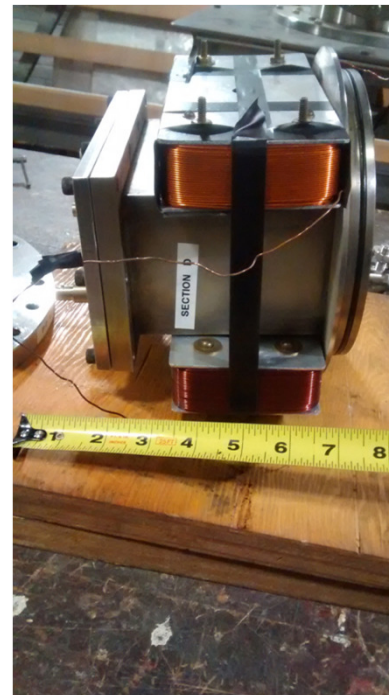


Head section
in workshop
(labeled as section C
and section D)

Diameter: 12"

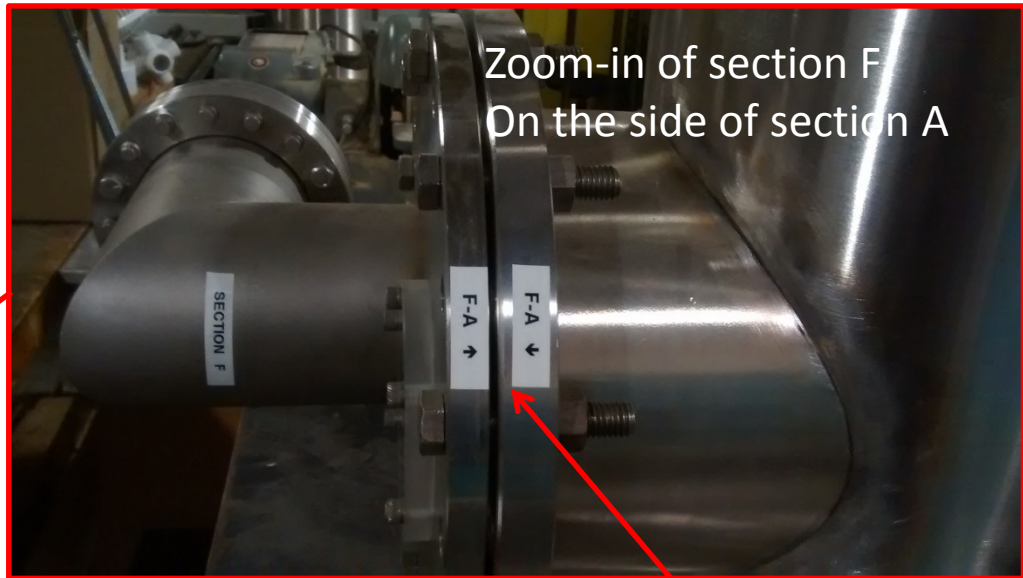
Height: 8.5" (sect. C)
7.5" (sect. D)

Total weight: 55 lb





Zoom-in of section E
under the steel plate



Zoom-in of section F
On the side of section A



All joints of sections
were labeled

Arrows on the labels
indicate alignment



This picture shows where the ion gauge was installed.

It is detached now for shipping.

Suggestions for Packing

- The bottom section could be bolted on a rigid pallet wood
- The mirror section then can be bolted inside the steel support structure on the pallet wood (saving space and lowering the center of mass)
- Build a wood enclosure on the pallet wood as a shipping crate
- Wood cross bars could be used inside the crate to enforce the support
- The head section (and the ion gauge) can be put in a separate, smaller wood box for shipping.