

# EMERGENCY SHUTDOWN OF THE COLTRIMS SYSTEM



## 1.) Turn off the ION GAUGES at silver controller cart:

Step	What ?	Device	Buttons	Comment
1 to 12	controller for <b>JETDUMP, CHAMBER, 2ND STAGE, SOURCE</b>	Phillips Granville 260	Turn <b>BLACK KNOB</b> on the right (10E-N) to <b>4, FILAMENT, POWER</b>	devices are silver
13 to 14	controller for <b>DIFF IG</b>	Phillips Granville 307	push <b>IG1 (or IG2), ON</b>	device is black

## 2.) Open the BYPASSES at the chamber:

SEE PICTURES ON THE BACK

Step	What ?	Device	Buttons	Comment
15	open <b>BYPASS 1</b>	CF40 Valve	<b>GOLDEN KNOB</b>	at the chamber
16	open <b>BYPASS 2</b>	KF25 Valve MDC	<b>BLACK KNOB</b>	at the chamber

## 3.) Close the VALVES at forepumps:

Step	What ?	Device	Buttons	Comment
17	close <b>JET 1</b>	KF40 Valve MDC	<b>BLACK KNOB</b>	at the forepump
18	close <b>JET 2</b>	KF25 Valve MDC	<b>BLACK KNOB</b>	at the forepump
19	close <b>CHAMBER</b>	KF25 Valve MDC	<b>BLACK KNOB</b>	at the forepump
20	close <b>DIFFERENTIAL</b>	KF25 Valve MDC	<b>BLACK KNOB</b>	at the forepump

## 4.) Turn off the TURBO PUMPS at silver controller cart:

Step	What ?	Device	Buttons	Comment
21	<b>DIFFX</b>	Pfeiffer TCP 121	press ⏻	(stop) on the right
22	<b>SOURCE</b>	Pfeiffer DCU 600	press ⏻	(stop) on the left
23	<b>FORELINE</b>	Alcatel ACT200T	press <b>STOP</b>	(start/stop) button
24	<b>CHAMBER</b>	Pfeiffer TCP 121	press ⏻	(stop) on the right
25	<b>2ND STAGE</b>	Pfeiffer TCP 121	press ⏻	(stop) on the right
26	<b>JETDUMP</b>	Pfeiffer TCP 121	press ⏻	(stop) on the right
27	<b>CHAMBER 2</b>	Seiko Seiki STP	press <b>STOP</b>	red button under glass
28	<b>CHAMBER 3</b>	Alcatel ACT600T	press <b>STOP</b>	(stop) button

## 5.) Turn off the POWER at pumps and silver controller cart:

Step	What ?	Device	Buttons	Comment
29	scroll pump <b>JET 1</b>	Varian Triscroll	<b>BLACK SWITCH</b>	at pump: in silver box
30	scroll pump <b>JET 2</b>	Anest Iwata	<b>BLACK SWITCH</b>	at pump: in silver box
31	fore pump <b>CHAMBER</b>	Adixen ACP 40	<b>BLACK SWITCH</b>	at pump: on back side
32	fore pump <b>DIFFX</b>	Alcatel Drytel 31	<b>RED SWITCH</b>	at pump: on front side
33	turbo pump controller <b>SOURCE</b>	Pfeiffer DCU 600	<b>BLACK SWITCH</b>	at controller cart: on back side
34	turbo pump controller <b>FORELINE</b>	Alcatel ACT200T	<b>BLACK SWITCH</b>	at controller cart: on back side
35	turbo pump controller <b>CHAMBER 2</b>	Seiko Seiki STP	<b>BLACK SWITCH</b>	at controller cart: left side (under glass)
36	turbo pump controller <b>CHAMBER 3</b>	Alcatel ACT600T	<b>BLACK SWITCH</b>	at controller cart: on back side

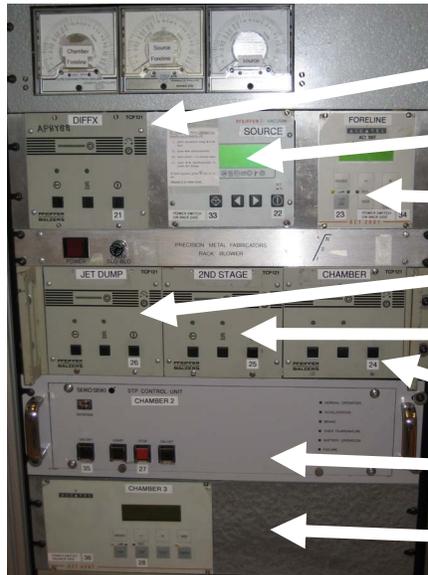
**ION GAUGE CONTROLLERS:**

- Top of Chamber **JETDUMP** →
- Main chamber **CHAMBER** →
- Gas Jet 2<sup>nd</sup> Stage **2ND STAGE** →
- Gas Jet 1<sup>st</sup> Stage **SOURCE** →
- Spare: not used →
- Differential pumping stage **DIFF IG** →



**TURBO PUMP CONTROLLERS:**

- Differential pumping stage **DIFFX**
- Gas Jet 1<sup>st</sup> Stage **SOURCE**
- Fore Vacuum **FORELINE**
- Top of Chamber **JETDUMP**
- Gas Jet 2<sup>nd</sup> Stage **2ND STAGE**
- Main chamber **CHAMBER**
- Electron Side **CHAMBER 2**
- Recoil Ion Side **CHAMBER 3**



**VACUUM BYPASSES @ CHAMBER:**

- Bypass 1<sup>st</sup> and 2<sup>nd</sup> stage **BYPASS 1** →



- Bypass 2<sup>nd</sup> stage and chamber **BYPASS 2** ←

**FOREPUMPS:**

- Differential Stage **DIFFX (DRYTEL31)** →
- Gas Jet 1<sup>st</sup> stage **JET1 (VARIAN TRISCROLL)**



- Main Chamber **CHAMBER (ADIXEN ACP40)**
- Gas Jet 2<sup>nd</sup> stage **JET 2 (ANEST IWATA)**

