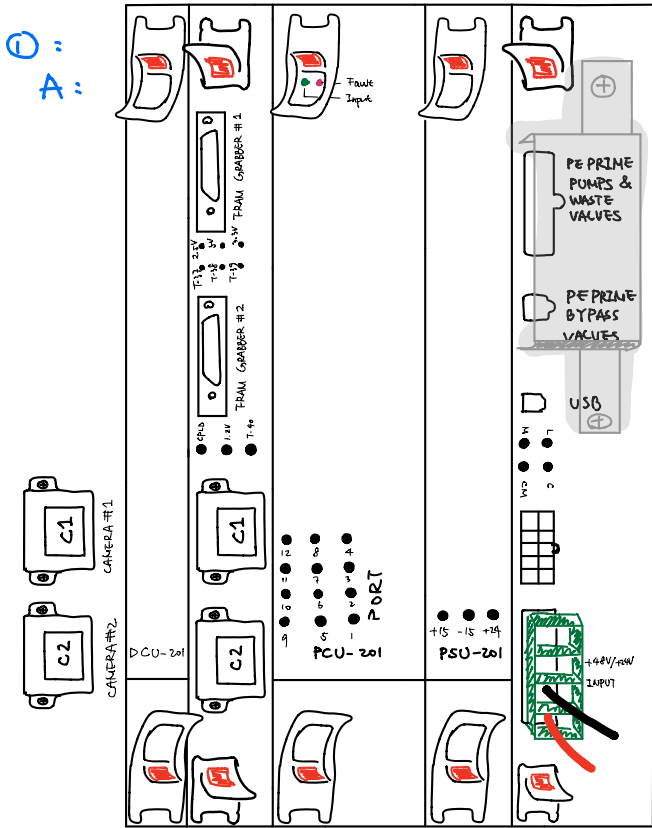
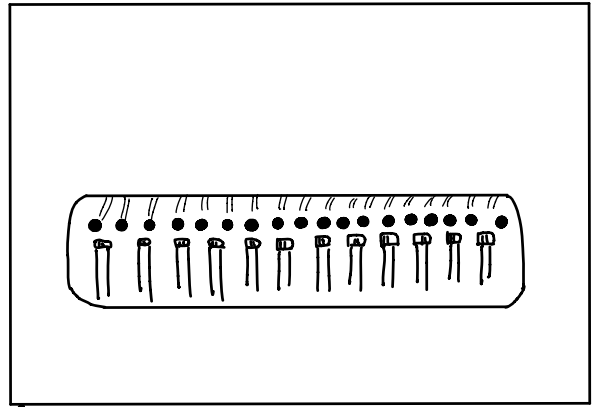


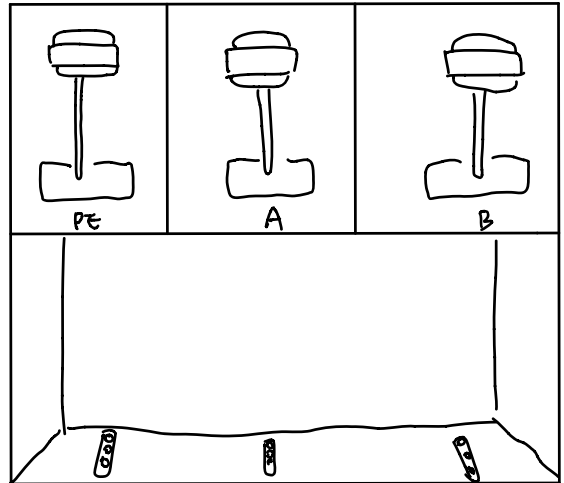
john.markham@gmail.com  
 qee.y.zhao@gmail.com  
 weijieq1229@gmail.com



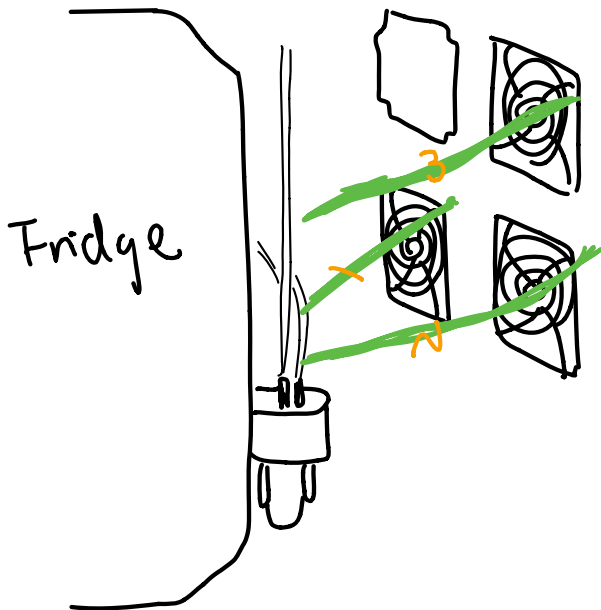
② = A:



B:



B:

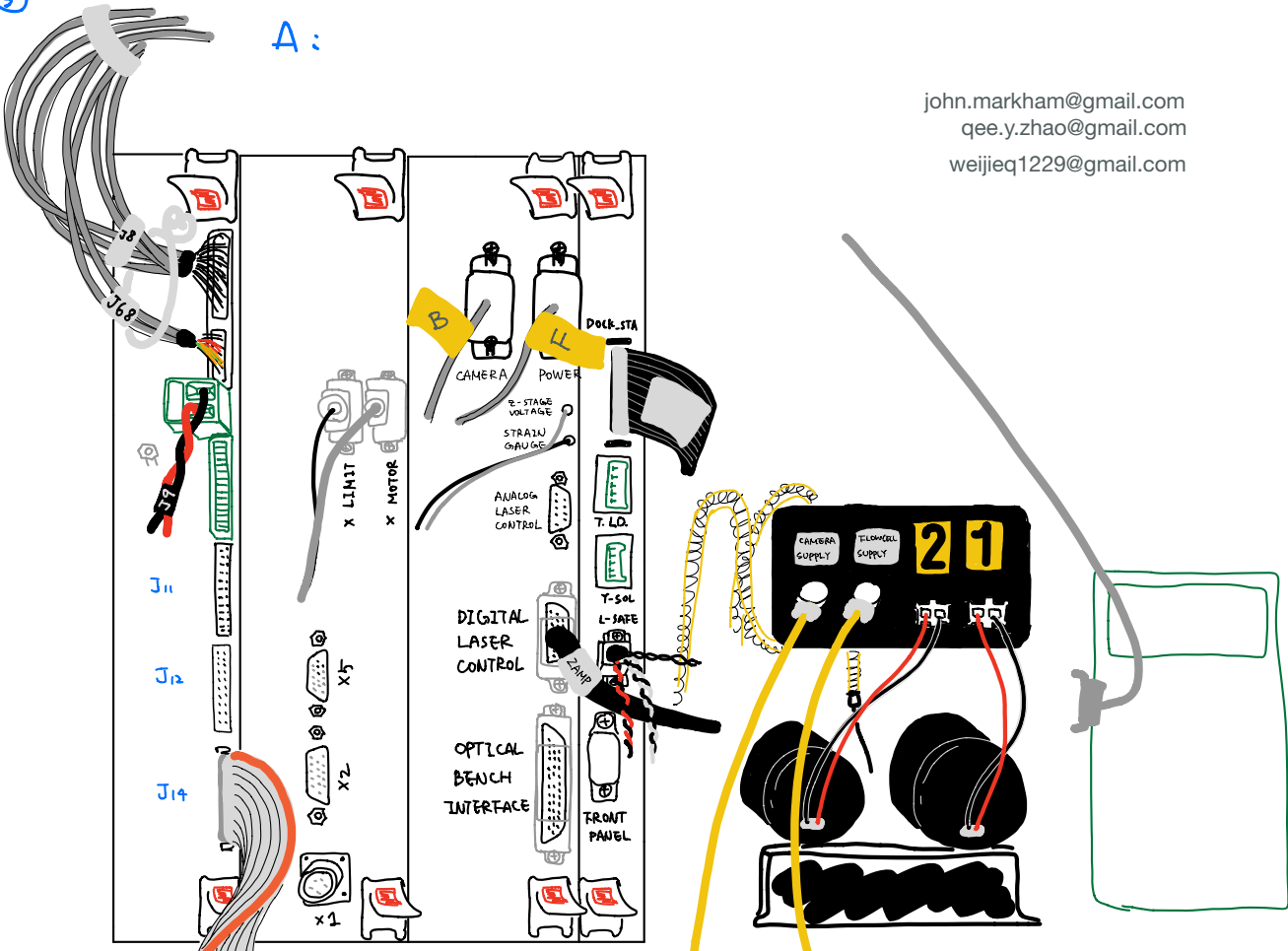


3

A:

john.markham@gmail.com  
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weijieq1229@gmail.com

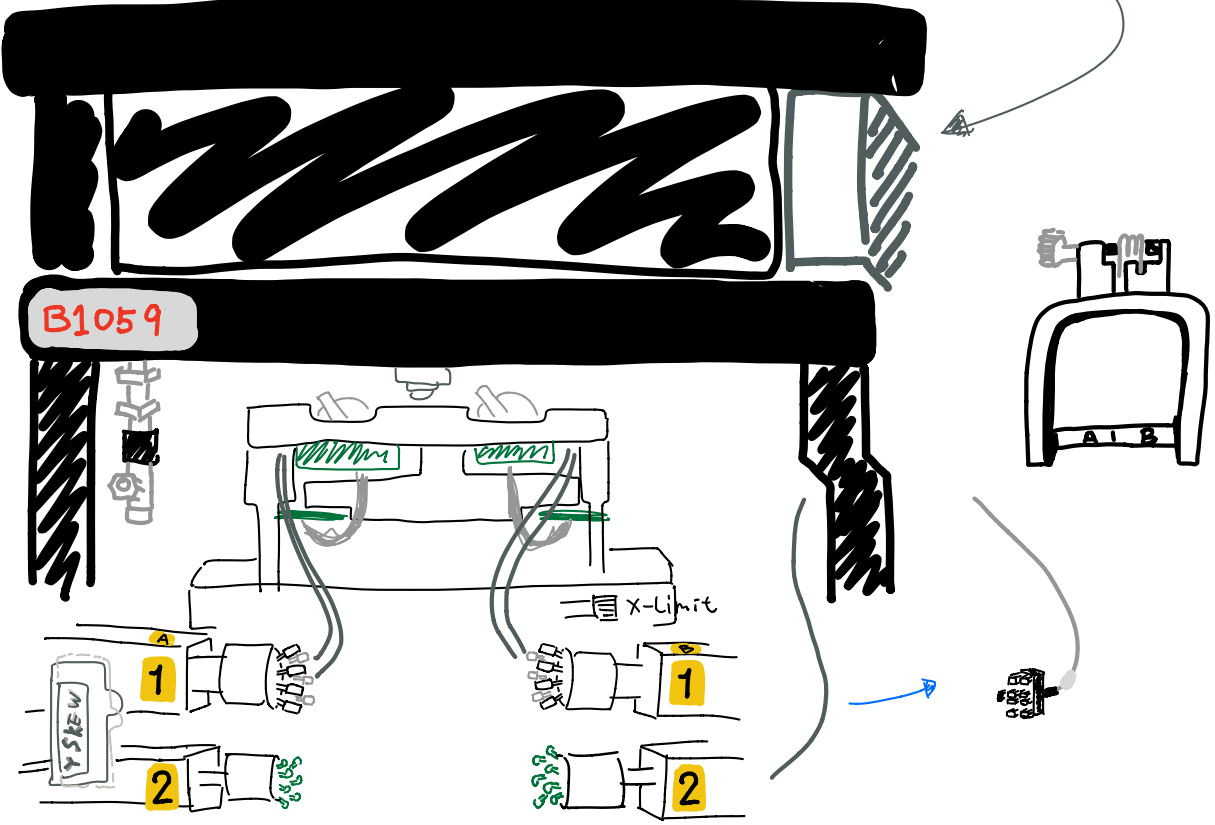
BACK OF Syringe



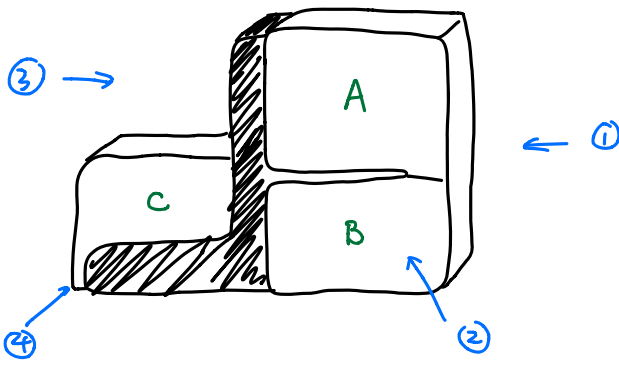
C:



4:

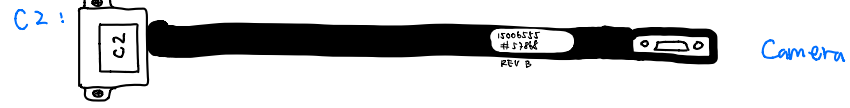
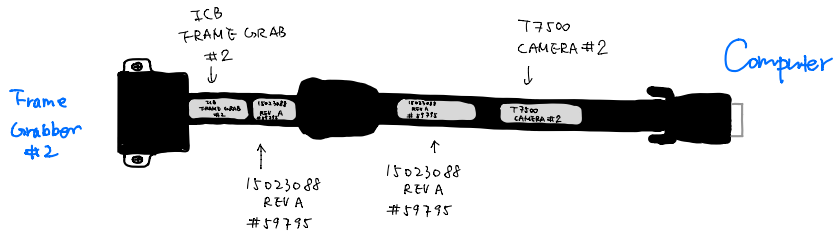
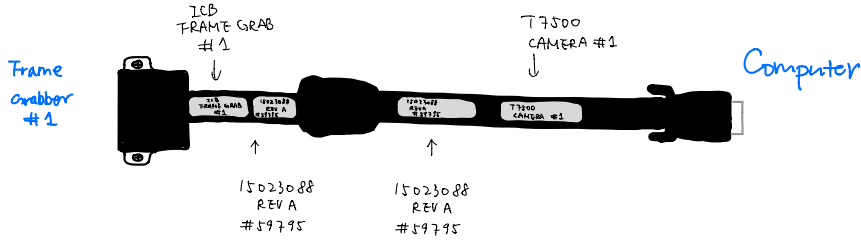


Interconnections:

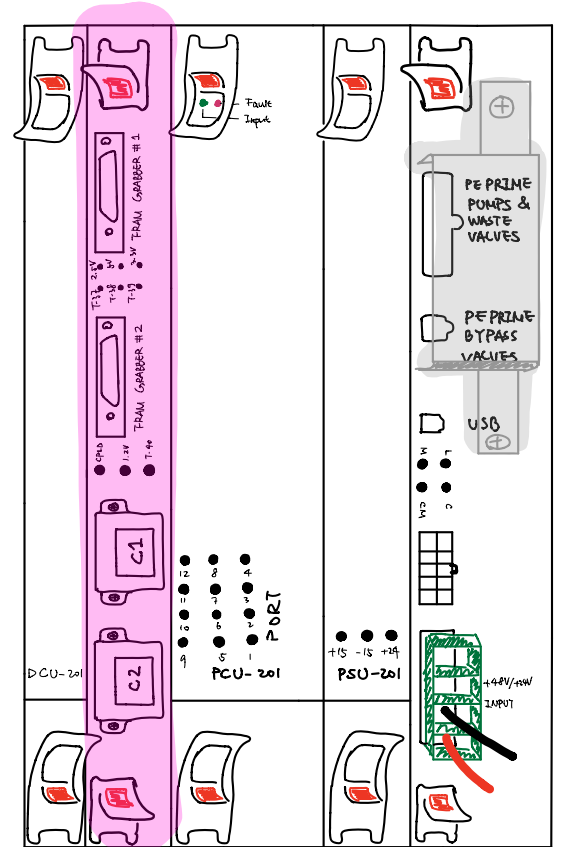


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 weijieq1229@gmail.com

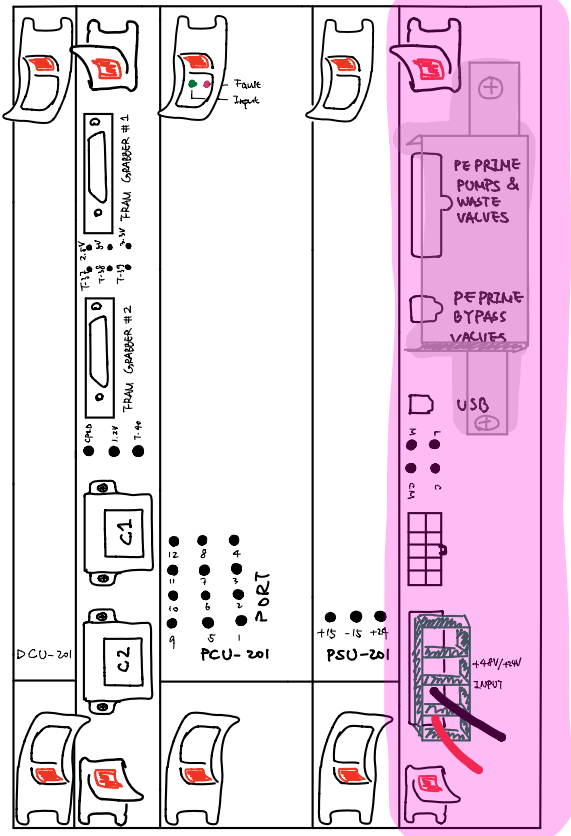
①:



A:

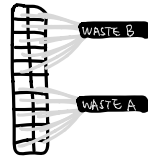


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weijieq1229@gmail.com



PE Prime Pumps  
& Waste Valves

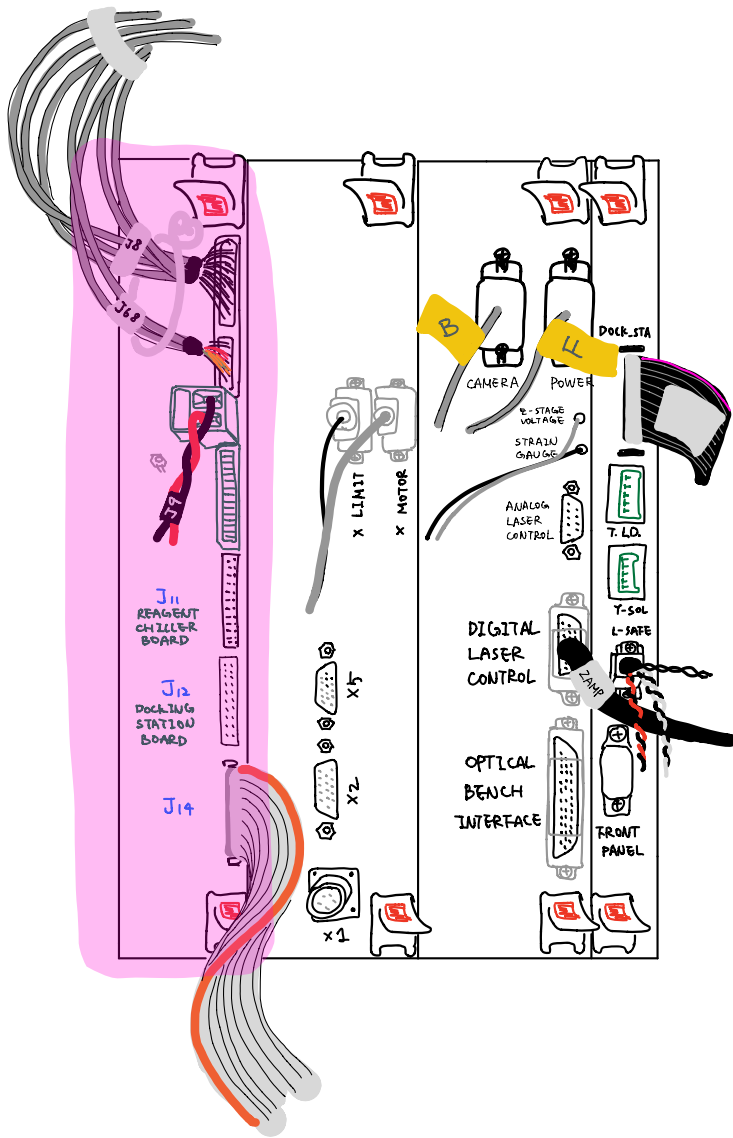
PE Prime  
Bypass Valves



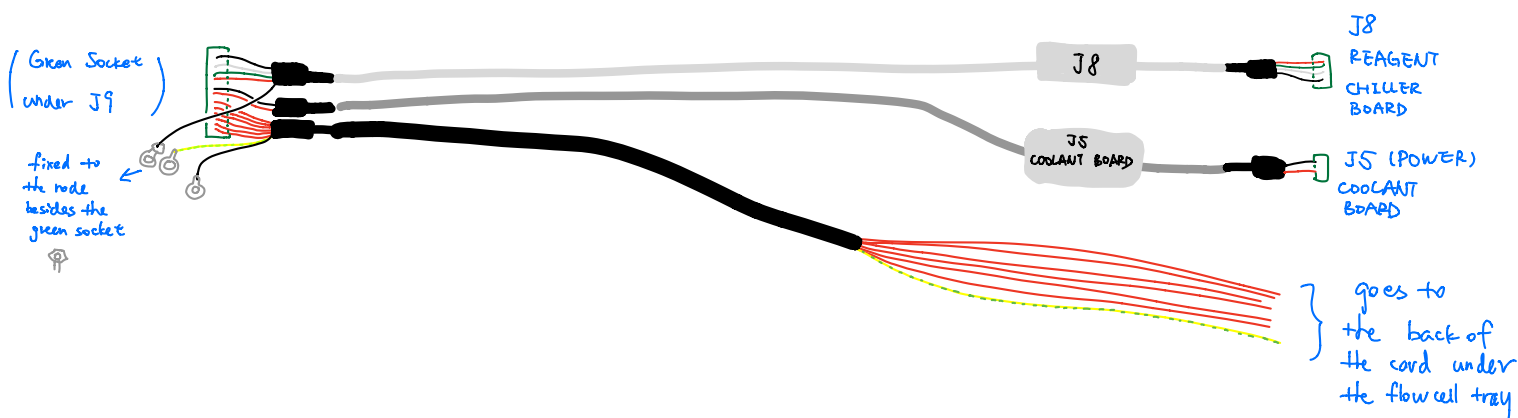
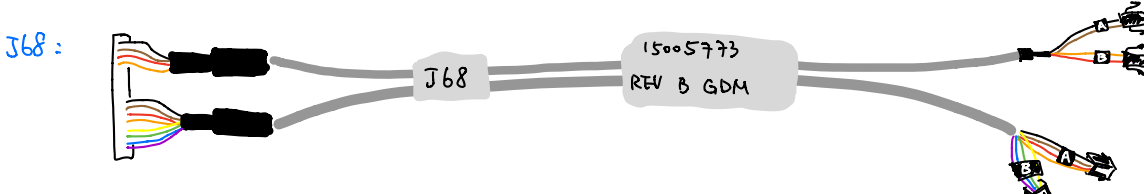


3 :

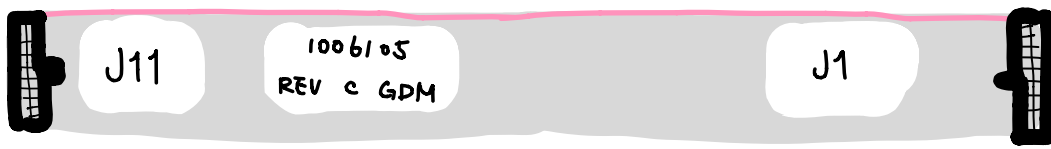
john.markham@gmail.com  
 qee.y.zhao@gmail.com  
 weijieq1229@gmail.com



J8 :  $\left\{ \begin{array}{l} VICI \ A1 \quad KLOEHN \ A \\ VICI \ A2 \quad KLOEHN \ B \\ VICI \ B1 \\ VICI \ B2 \end{array} \right\}$  slightly (Serial ports.)  
 thicker

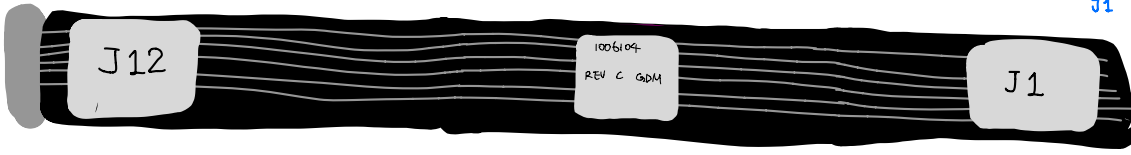


J11:  
CHEMISTRY  
MODULE

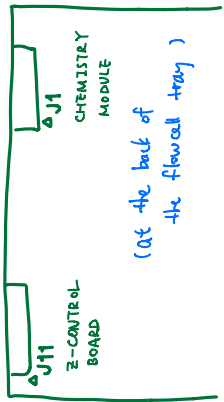


J1  
REAGENT  
CHILLER  
BOARD

J12:



J1

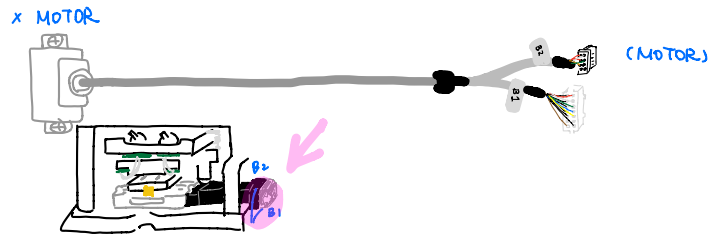
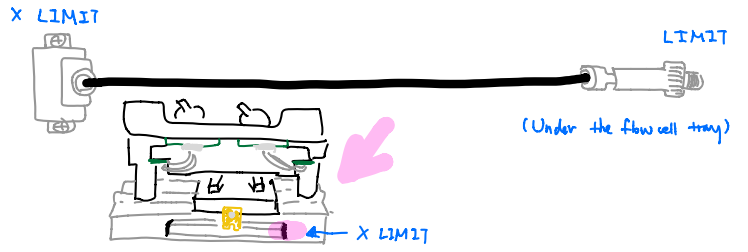
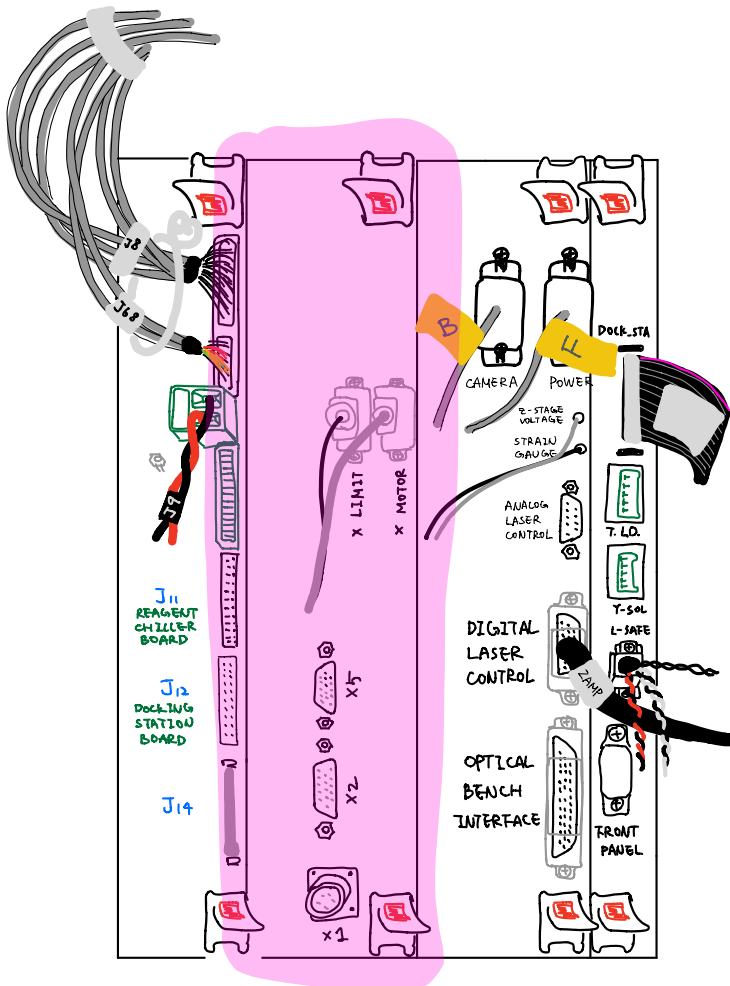


J14:



J4  
COOLANT  
BOARD

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 qee.y.zhao@gmail.com  
 weijieq1229@gmail.com

X1 & X2 & X5

X1

006-2143  
 X1 MOTOR  
 10110

X2

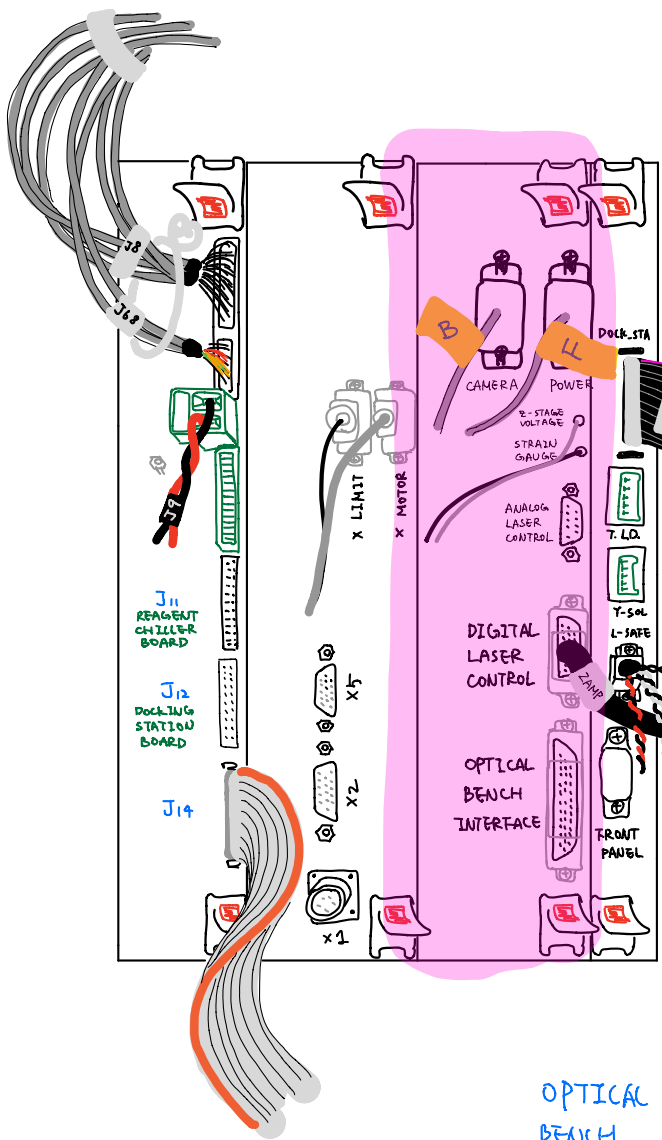


006-2024-1.5  
 X2-FEEDBACK  
 10110

goes to  
 the back of  
 the cord under  
 the flow cell tray.

X5:

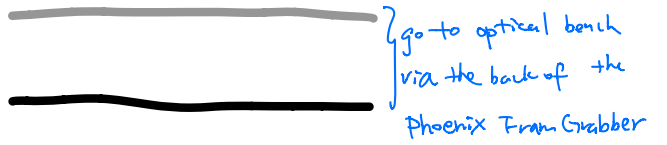
006-2024-1.5  
 X5-LIMITS  
 10110



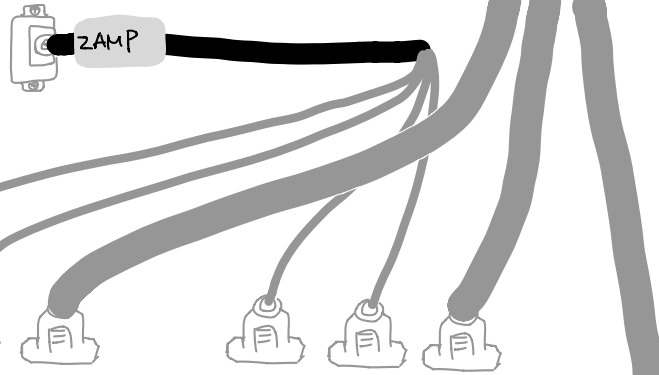
CAMERA  
POWER:  
B F



Z-STAGE  
VOLTAGE  
STRAIN  
GAUGE



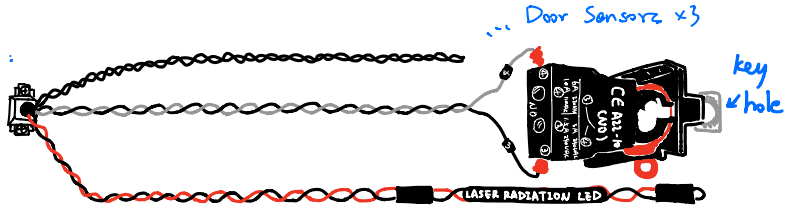
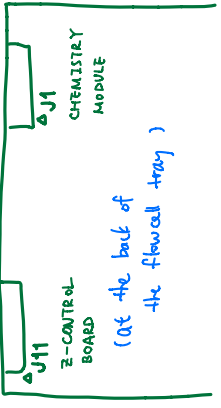
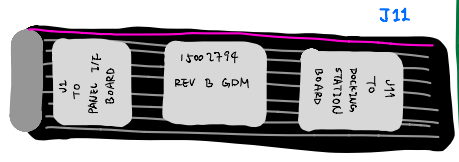
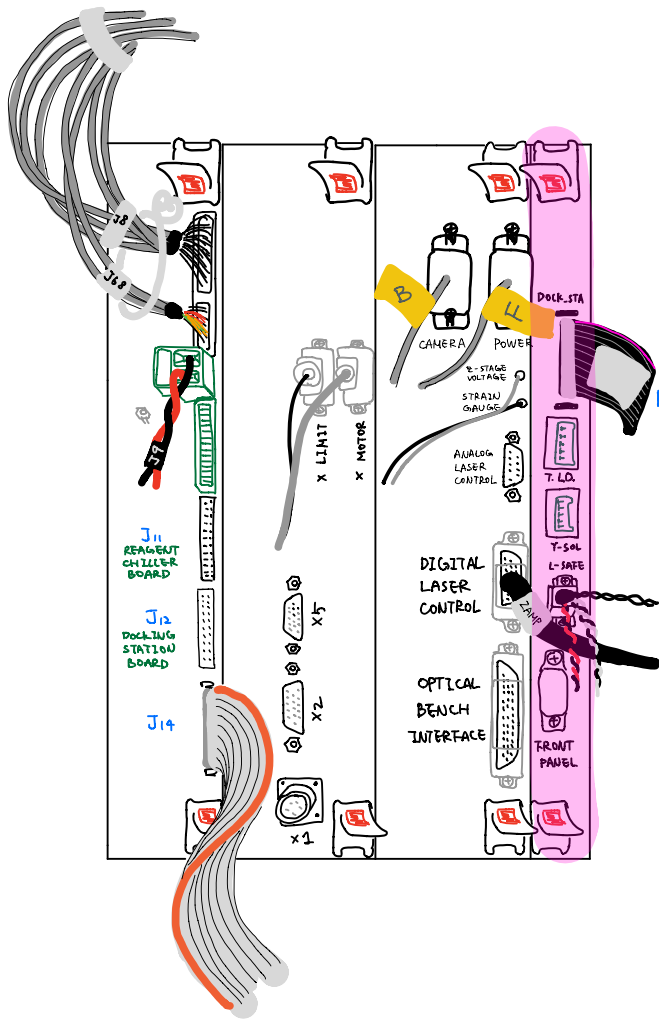
DIGITAL  
LASER  
CONTROL



OPTICAL  
BENCH  
INTERFACE



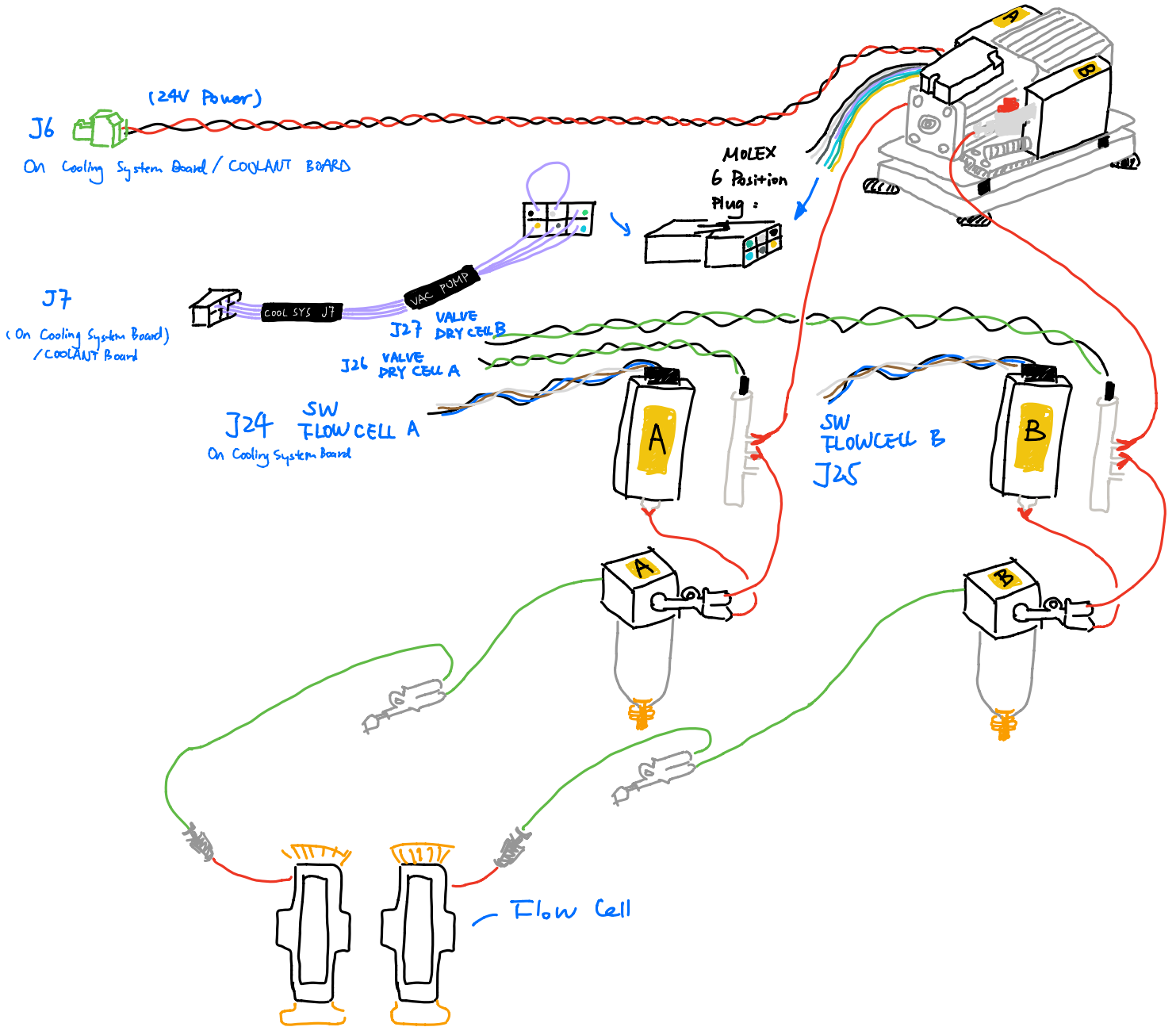
john.markham@gmail.com  
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weijieq1229@gmail.com



john.markham@gmail.com  
 qee.y.zhao@gmail.com  
 weijieq1229@gmail.com

# ▷ Vacuum Pump (Suck the flow cell down)

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qee.y.zhao@gmail.com  
weijieq1229@gmail.com



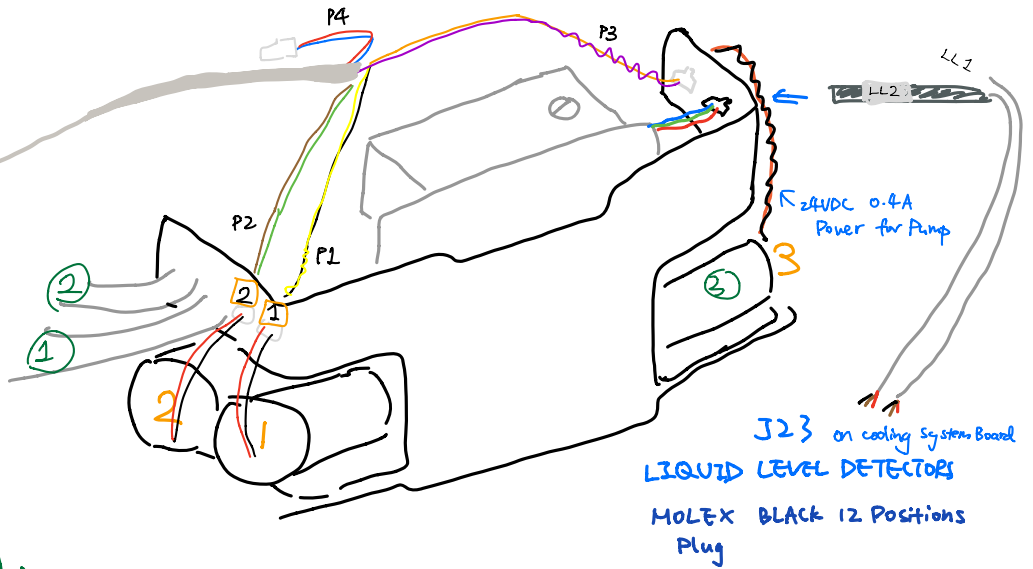
o Cooling System :

On cooling system board

J20

4 Pair of 24VDC

MOLEX WHITE 8 Positions  
PLUG



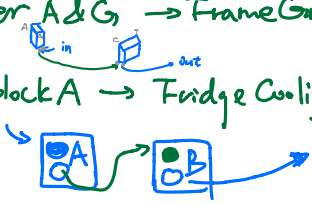
J23 on cooling system Board

LIQUID LEVEL DETECTORS

MOLEX BLACK 12 Positions  
Plug

Cooling water (with coolant) :

- 1 : Pump → Flow Cell Cooling Pad 1 → Flow Cell Cooling Pad 2 → Flow Sensor 1 → Fan 1 → Tank  
↳ Under optical bench
- 2 : Pump → Frame Grabber A & G → Frame Grabber T & C → Flow Sensor 2 → Fan 2 → Tank
- 3 : Pump → Fridge Cooling Block A → Fridge Cooling Block B → Flow Sensor 3 → Fan 3 → Tank.



Flow Sensor 1 & 2 & 3 ↓

J22 FLOW SENSORS on cooling system Board  
MOLEX BLACK 14 Positions Plug.

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J28 = SPARE 24VDC

J22 = Coolant Flow Sensor

COOLANT PUMPS (24VDC Power)

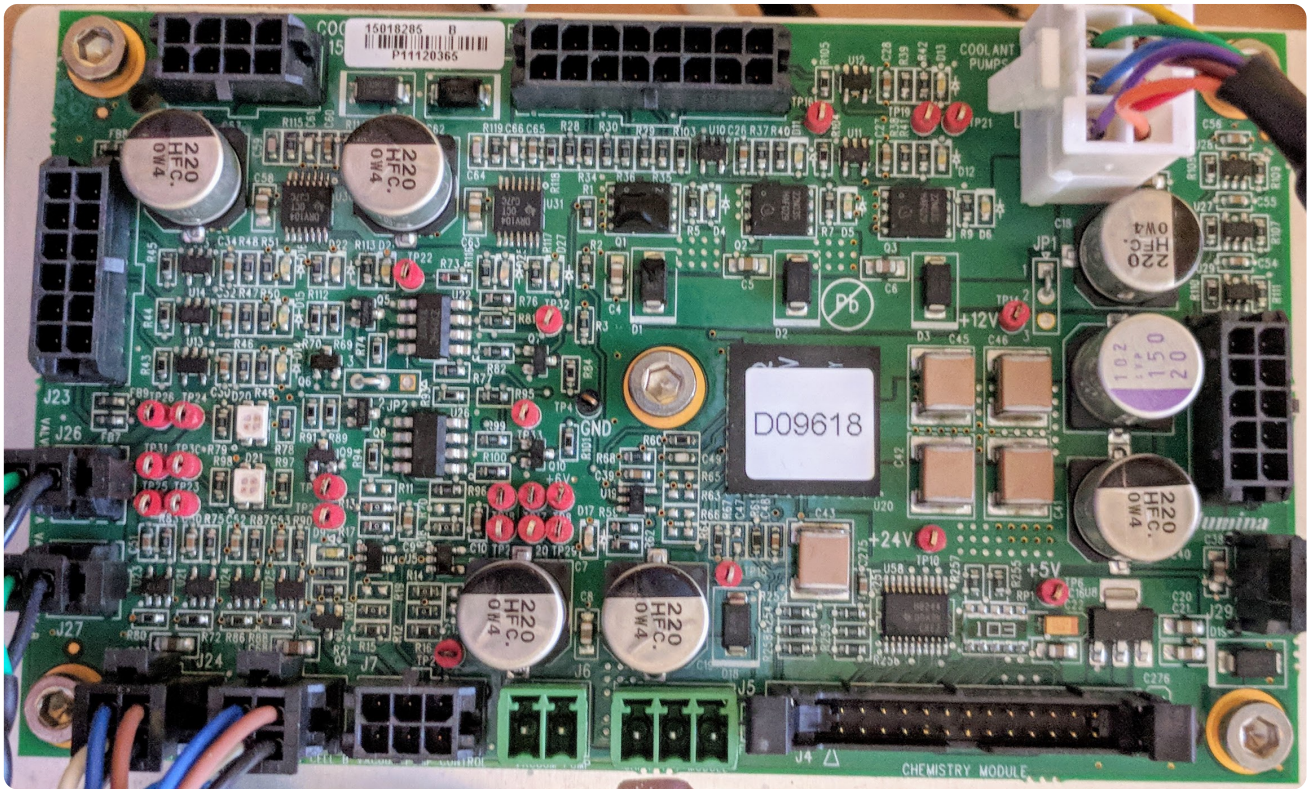
Liquid level detector  
→  
u1 u2  
↓  
Coolant Pump

J26 →

J27 →

J19:  
Power to Fans

J29:  
sensor



J24  
↑  
Ⓐ Pressure Sensor  
Ⓟ

J7  
↑  
To Vacuum Pump

J5: Power from MotherBoard  
J6: 24VDC Power to Vacuum Pump

J4: From MotherBoard

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### Rest Jacks on Cooling System Board / COOLANT BOARD

J28 = SPARE 24VDC MOLEX BLACK 8 Positions Plug.

J19: Power to Fans MOLEX BLACK 10 Positions Plug.

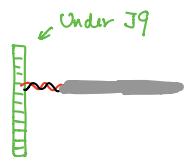
J29: A Sensor : ~~From~~ MOLEX BLACK 2 Positions Plug.

J4: From MotherBoard J14



J5: From MotherBoard

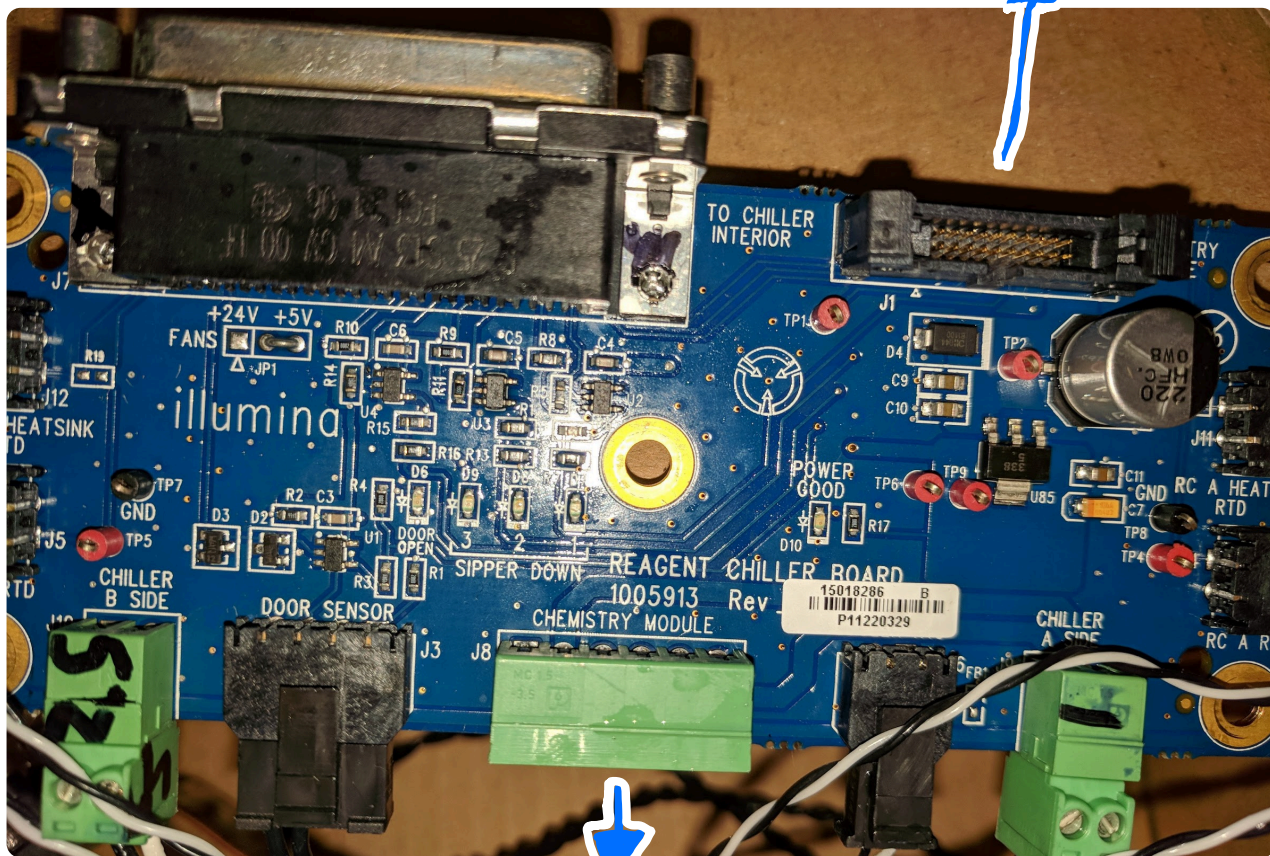
(Power)





To 5 little Fans of Fridge  
↑ (To chiller interior)

To Motherboard ← J11  
(CHEMICAL MODULE)



chillerB  
←

Sensor  
←

→ chillerA

→ Sensor

←  
Chiller B  
on Fridge



To Motherboard: long Green Socket below J9  
(CHEMICAL MODULE)

→ chiller A on Fridge

Pool Sensor  
(Magnetic Sensor)

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