

IOBoard v1.2 documentation

written by Jules Dupéroux

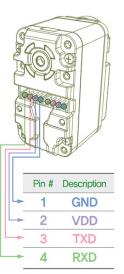


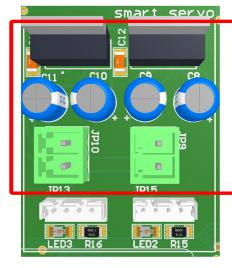
7.4V GND TX RX

! ERROR IN PCB!

YOU MUST MODIFY CABLE BETWEEN PCB AND HERKULEX!

7.4V and GND are reversed!





SMART SERVO (HerkuleX)

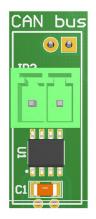
DO NOT MOUNT REGULATORS

DO NOT USE CONNECTORS JP9 JP10

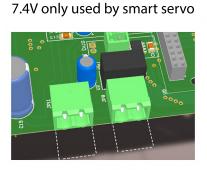


CANH CANL

CAN bus



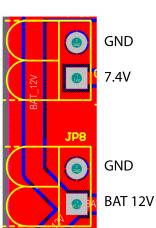
termination resistor

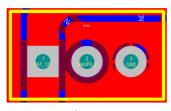


Power supply

3

2

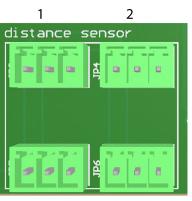




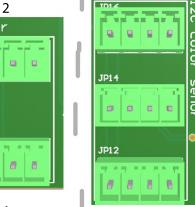
BAT12V distance GND

(on DT35)

Brown White Blue



DISTANCE SENSOR ³ (DT35)





5V GND SCL SDA

I2C COLOR SENSOR TCS34725

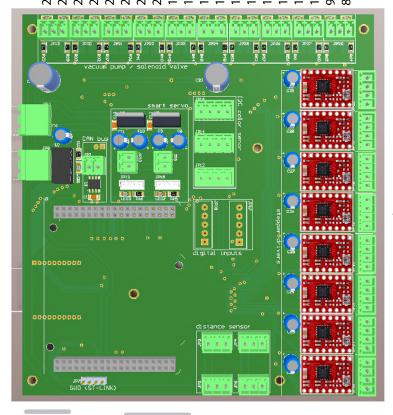


IOBoard v1.2 documentation revision 1.1

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27 VP BG bottom left
26 SV BG bottom left
25 VP BG top left
24 SV BG top left
23 VP BG bottm center
22 SV BG bottm center
27 VP BG bottm right
28 VP BG bottom right
37 VP BG bottom right
47 VP BG top right
47 VP BG top right
48 SV BG top right
49 VP FA top right
41 SV FA top right
41 SV FA top right
41 SV FA top left
41 VP FA top left
51 VP FA top left
62 VP FA bottom left
63 VP FA bottom left
64 SV FA bottom left
65 VP FA bottom left
66 VP FA bottom left
66 VP FA bottom left
67 VP FA bottom left
68 VP FA bottom left
68 VP FA bottom left

SV: solenoid valve VP: vacuum pump BG: backgripper FA: front arm



7 BG vertical top rail

6 shovel left

5 BG horizontal bottom left

4 BG horizontal top left

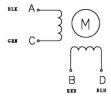
3 BG horizontal top right

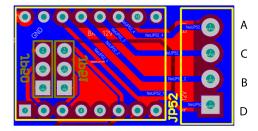
2 BG horizontal bottom left

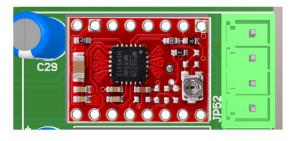
1 shovel right

0 BG vertical bottom rail

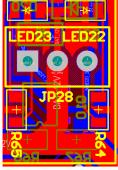
STEPPER

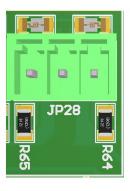








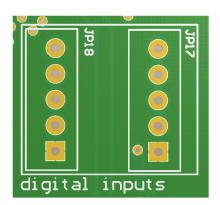




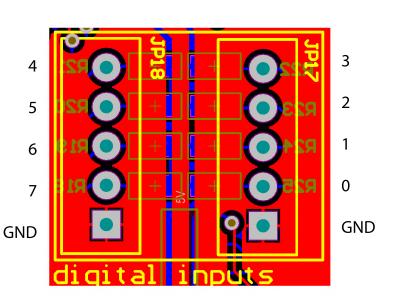
VACUUM PUMP/SOLENOID VALVE



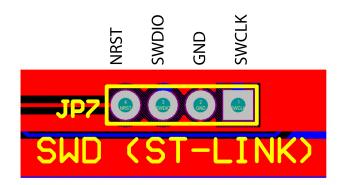
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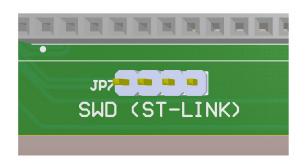


DIGITAL INPUTS (stepper homing)



ST-LINK

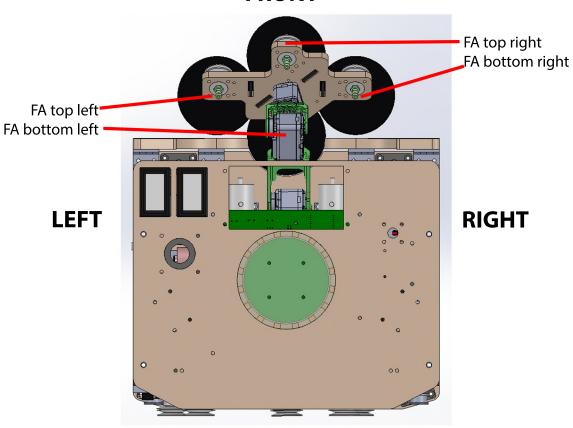




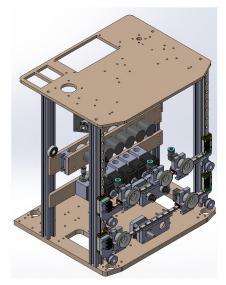


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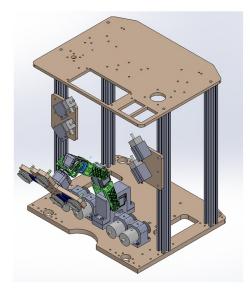
FRONT



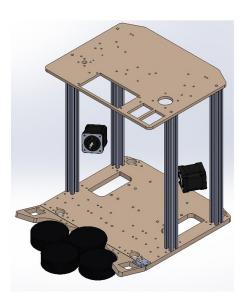
BACK



BACKGRIPPERS



FRONT ARM



SHOVEL