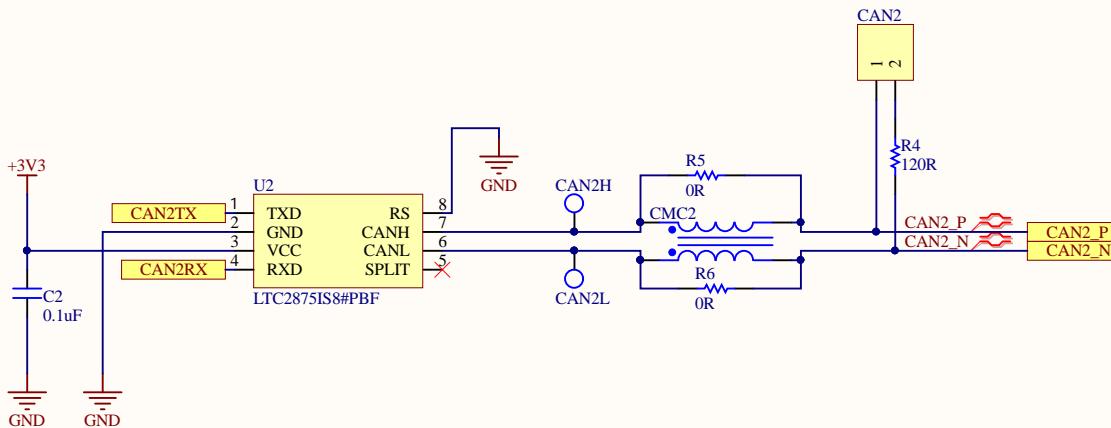
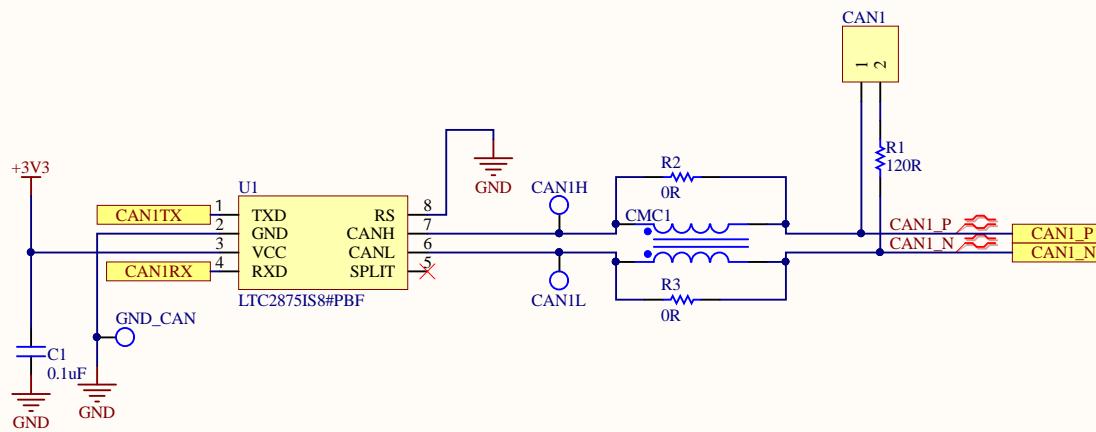
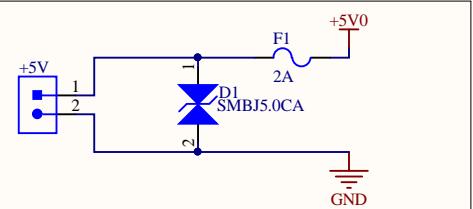


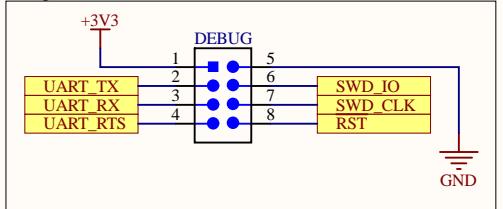
CAN Transceivers



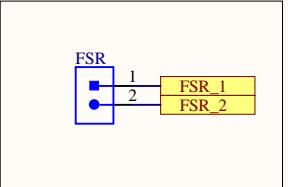
Power Connector



Debug Connector



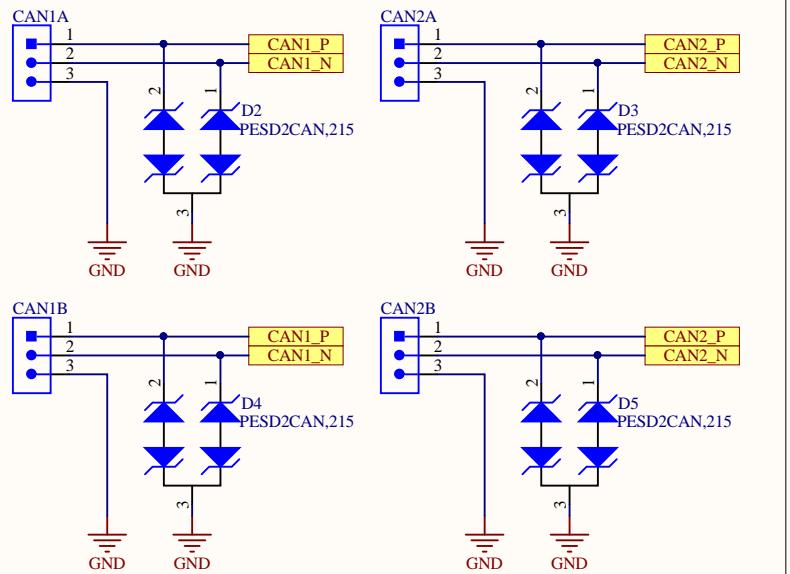
FSR



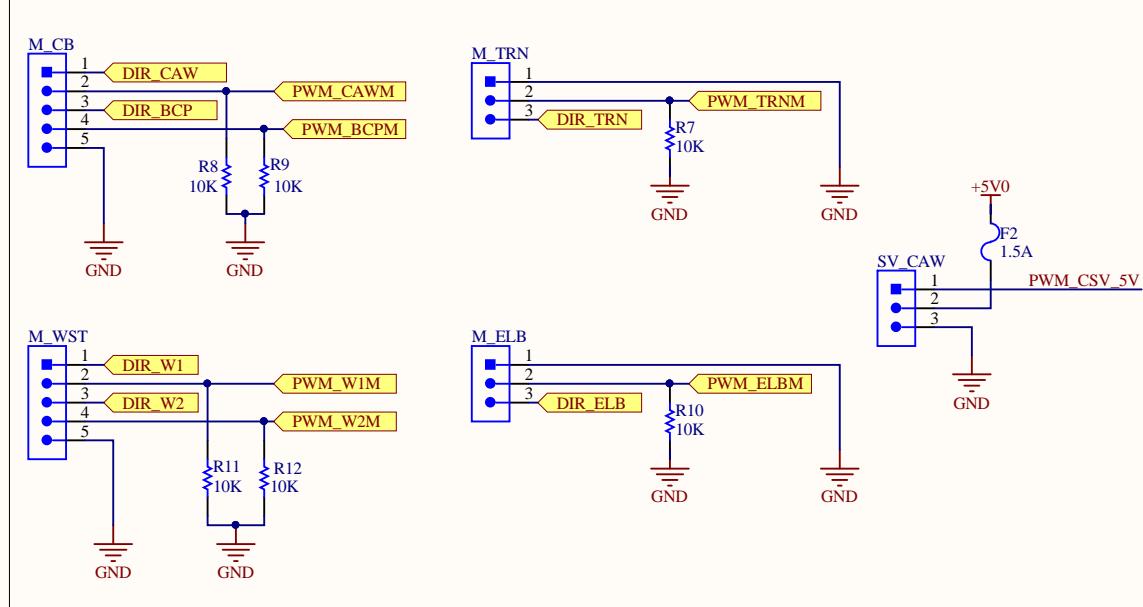
Acronyms Explained

FSR: Force Sensitive Resistor
CAW: Claw
WST: Wrist
BCP: Bicep (Shoulder)
ELB: Elbow
TRN: Turntable
DIR: Direction for motors

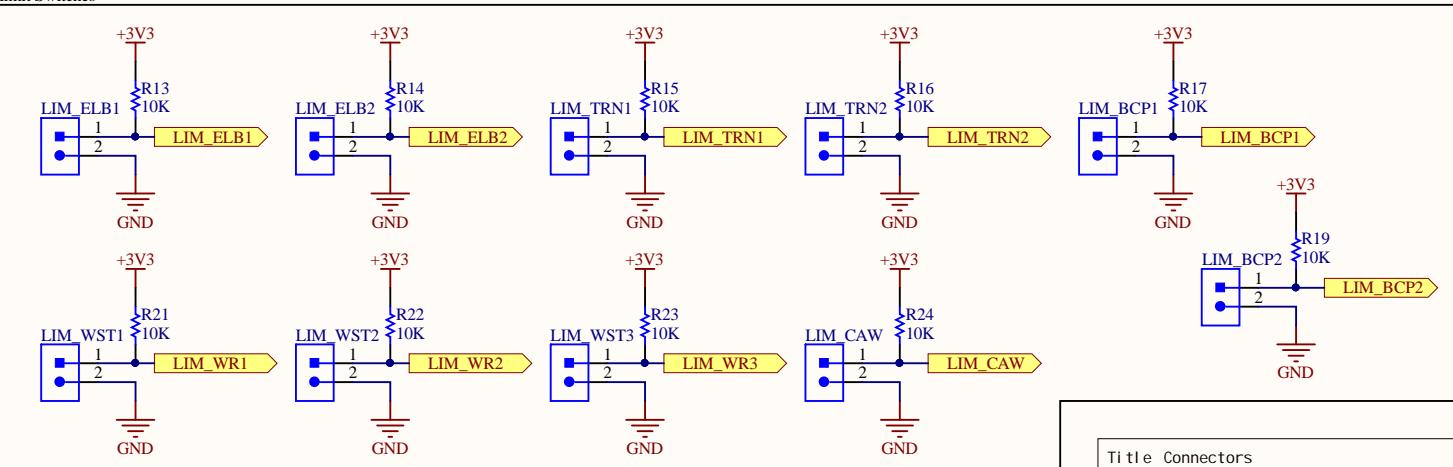
CAN Connections



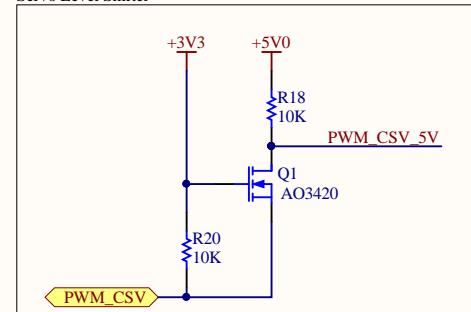
Motors



Limit Switches



Servo Level Shifter



Title Connectors

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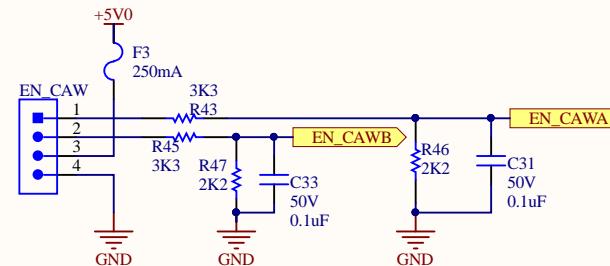
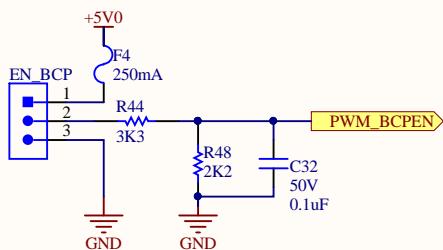
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200 University Avenue
Waterloo
Ontario
Canada N2L 3G6

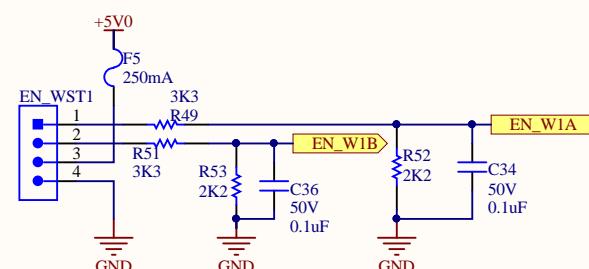
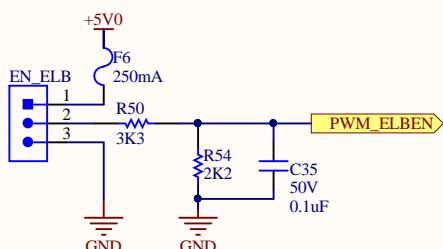


Encoders

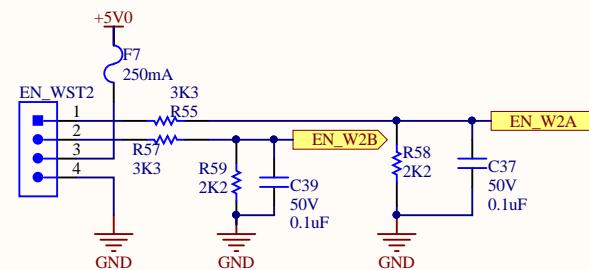
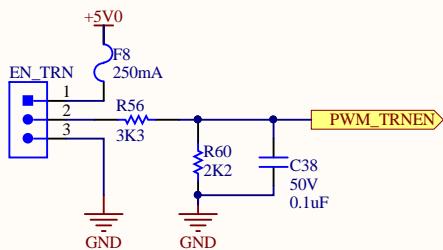
A



B



C



D

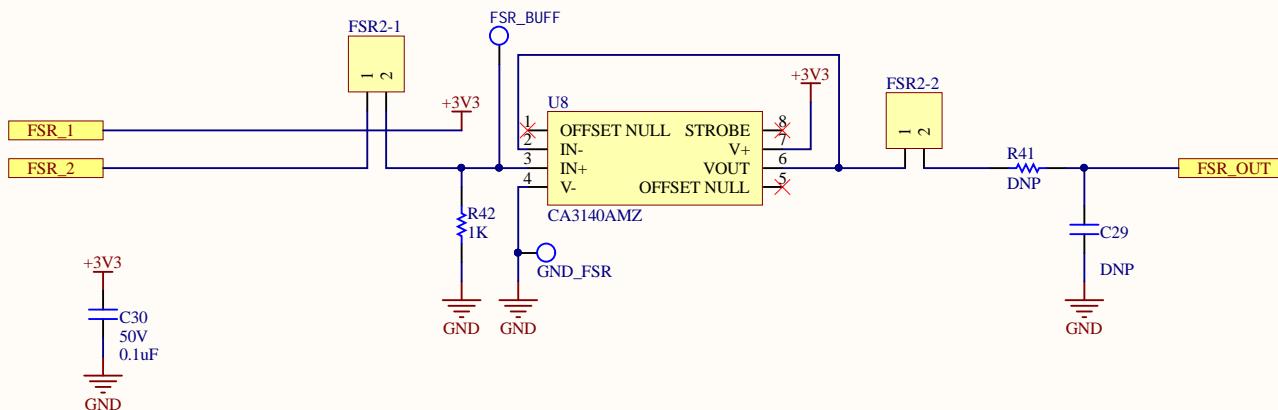
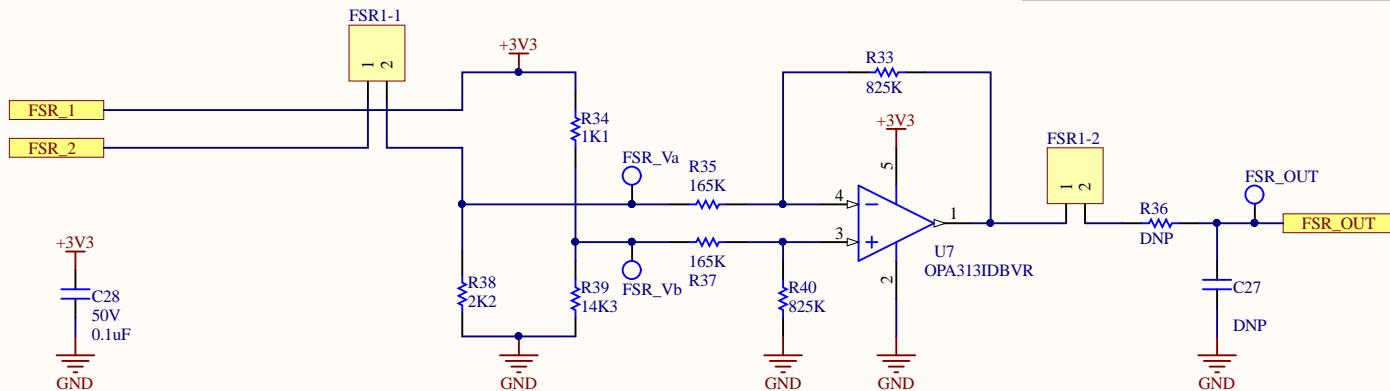
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Force Sensitive Resistor

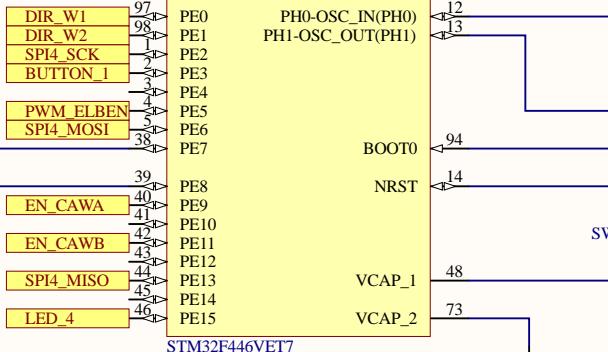
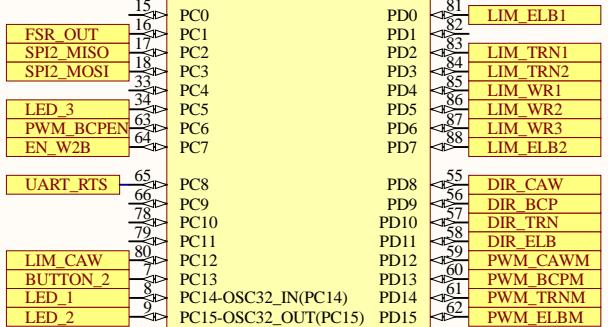
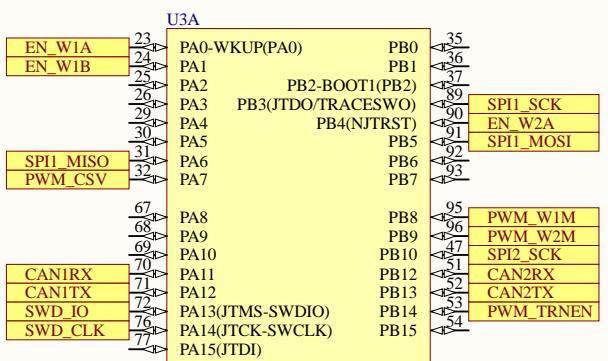
Links to calculations and documentation

<https://docs.google.com/document/d/1rw19DyF2suYmOmllnorCrfqnUpDln50-sqe5KjQKnCs/edit>

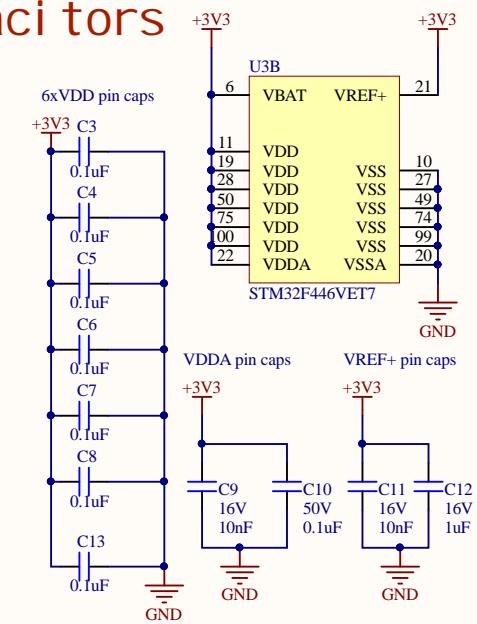
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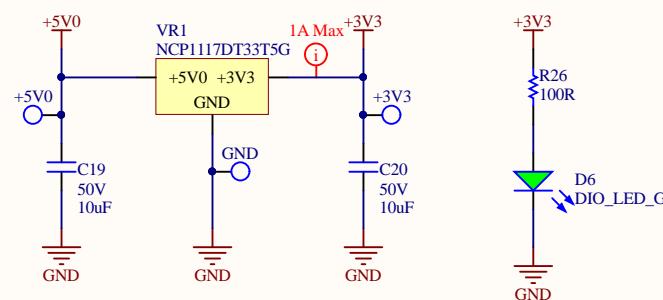
STM32F446VET7



Bypass Capacitors

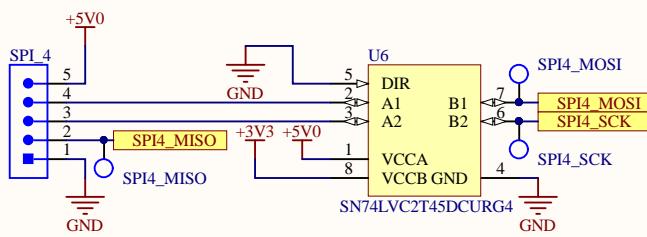
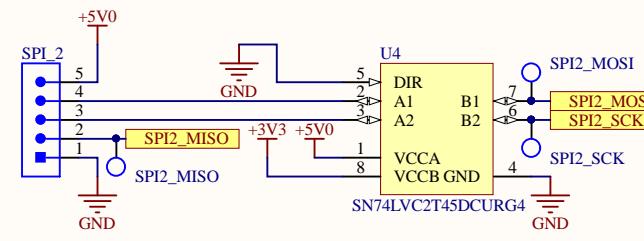
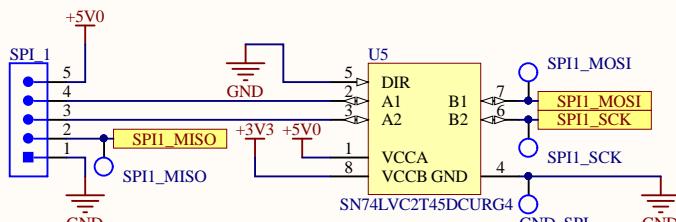


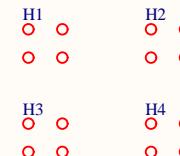
5V-3.3V LDO



Title Power		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6	UW ROBOTICS TEAM
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Date: 1/26/2020 Sheet of 1			
File: C:\Users\kyleh\Desktop\Works\UWRT\MarsRover2020-PCB\Projects\Arm\Rev1\sch\POWER.SchDoc			

SPI Encoders

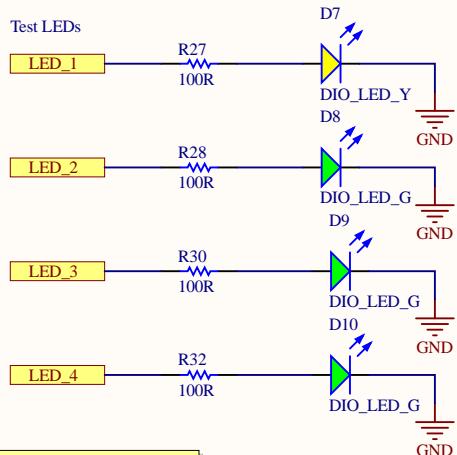




A

A

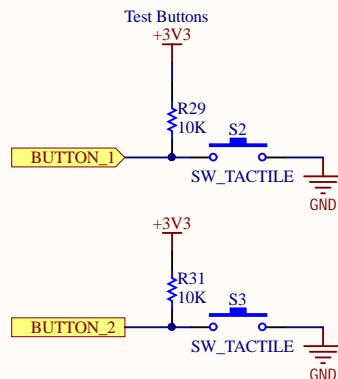
Test LEDs



B

B

Test Buttons



C

C

Current Calculations

Yellow LED voltage drop: 2.2V
 $- I = (3.3-2.2V)/120 = 10.83mA$

Green LED voltage drop: 2.2V
 $- I = (3.3-2.2V)/120 = 10.83mA$

D

D

Title Support

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