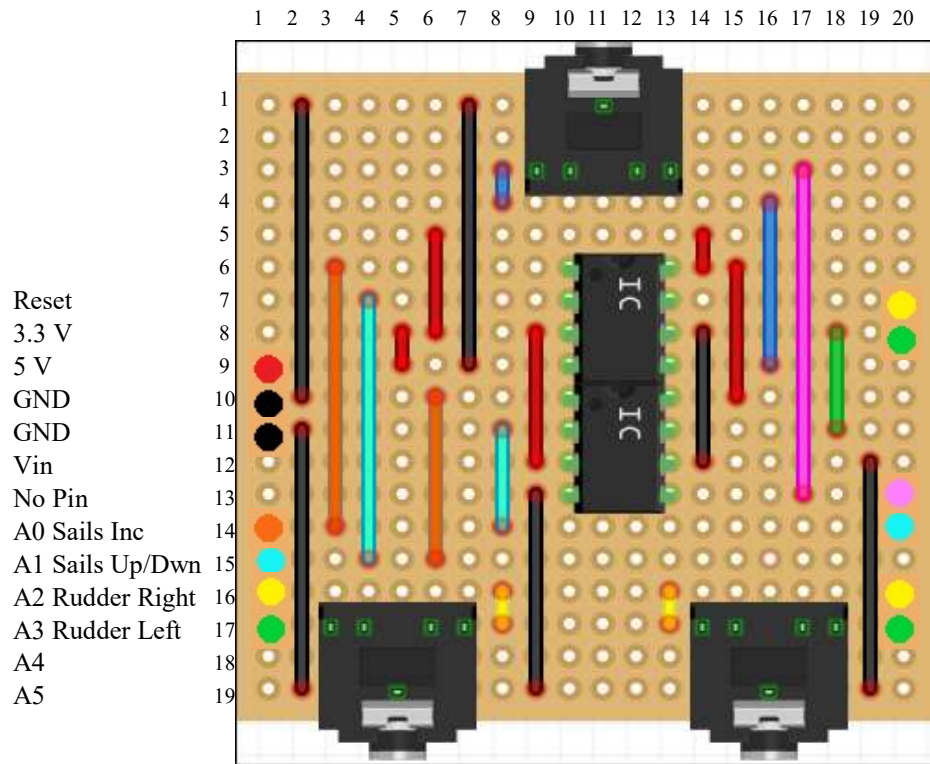


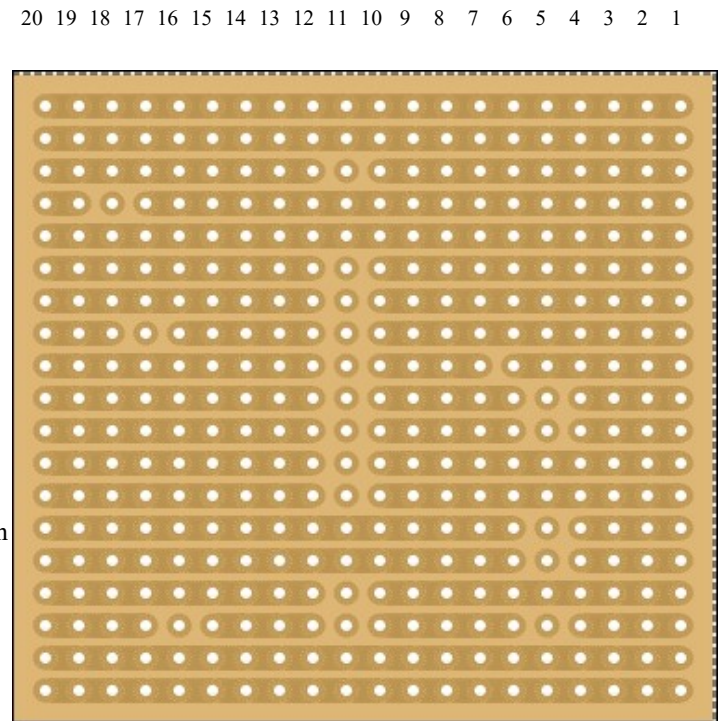
Adaptive RC Sailer Interface PCB

Arduino Shield (20 columns wide x 19 rows high)

Top View



Copper Strip Side with Trace Breaks



X9C103 Digital Potentiometer Sail & Rudder Pin Assignments

!INC = 1(Inc/Dec) Vcc = 8
 U!/D = 2(Up/Dwn) !CS = 7(Chip Select)
 Vh/Rh = 3 VI/Vr = 6
 GND = 4 Vw/Rw = 5
 Note: Must keep !INC LOW while taking !CS HIGH
 U!/D may be changed while !CS is LOW

Arduino Pin Numbers (Not PCB #)

Digital Pins D0 - D13 = Pin # 0 - 13
 Analog Pins A0 - A5 = Pin # 14 - 19

X9C Digital Potentiometer #A

X9C_A_Sails__ChipSelectPin7
 X9C_A_Sails__UpDownPin2
 X9C_A_Sails__IncDecPin1
 SailsOutSwitchPin
 SailsInSwitchPin
 X9C #A Pin#5 = Sails Servo (Tip)

Arduino

= D11 (11)
 = A1 (15)
 = A0 (14)
 = D3 (3) Ring
 = D2 (2) Tip

X9C Digital Potentiometer #B

X9C_B_Rudder__ChipSelectPin7
 X9C_B_Rudder__UpDownPin2
 X9C_B_Rudder__IncDecPin1
 RudderLeftSwitchPin
 RudderRightSwitchPin
 X9C #B Pin#5=Rudder Servo (Ring)

Arduino

= D10 (10)
 = D5 (5)
 = D4 (4)
 = A3 (17) Ring
 = A2 (16) Tip

Surrogate Adaptive Switch Simulator

Sails In (Decrement) = Tip

Sails Out (Increment) = Ring

