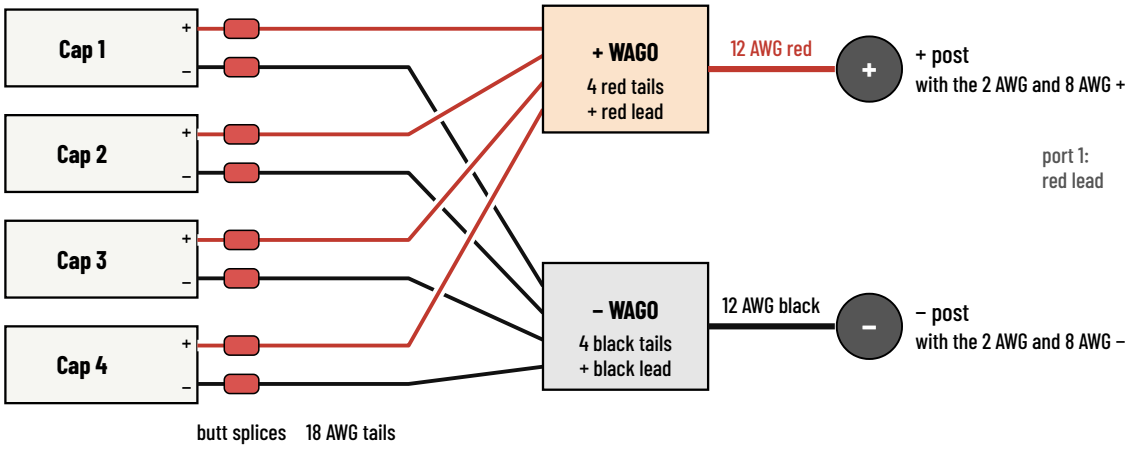
VESC A CAPACITOR HOOKUP

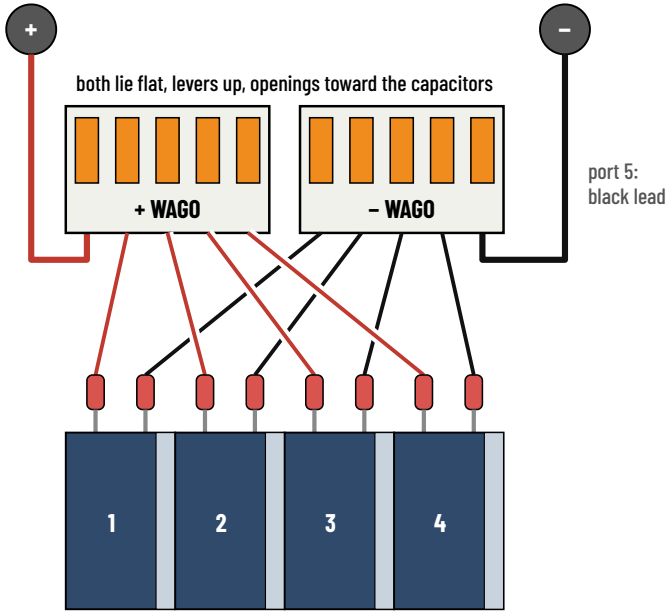
Boat 1 · VESC A box · Oct 14, 2026 · two WAGO 221-415: one for +, one for − · no copper strips, no solder · not to scale

1. WHAT JOINS WHAT

each WAGO joins everything in it: 4 capacitor tails + 1 lead



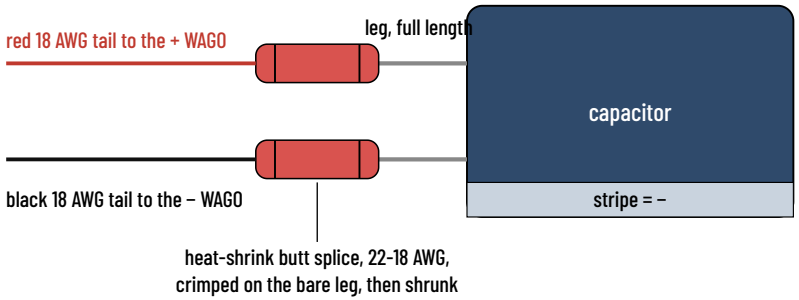
2. FROM ABOVE



4 capacitors lying in a row, glued, stripes all to the right

+ leg on the left of each, − leg (stripe side) on the right

3. ONE CAPACITOR, CLOSE UP



BUILD

Why tails: the capacitor legs are short and stiff. Four of them cannot reach one WAGO without bending bare + and − legs close together. Short insulated tails make the 4 + 1 hookup easy and safe.

Parts: the 4 Nichicons, 2 WAGO 221-415, 8 heat-shrink butt splices (22-18 AWG), about 3 ft of 18 AWG red and black, 1 ft of 12 AWG red and black, two 3/8 in ring lugs, neutral-cure silicone.

Tails: 3 to 4 in, all eight the same length. Strip 7/16 in for the WAGO.

Check: only red goes in the + WAGO, only black in the − WAGO.

Posts: each holds 3 lugs, bottom up: 2 AWG, 8 AWG, 12 AWG.

Glue caps and WAGOs to the floor; tie the tails. Neutral-cure silicone only.

Main battery switch off while wiring.