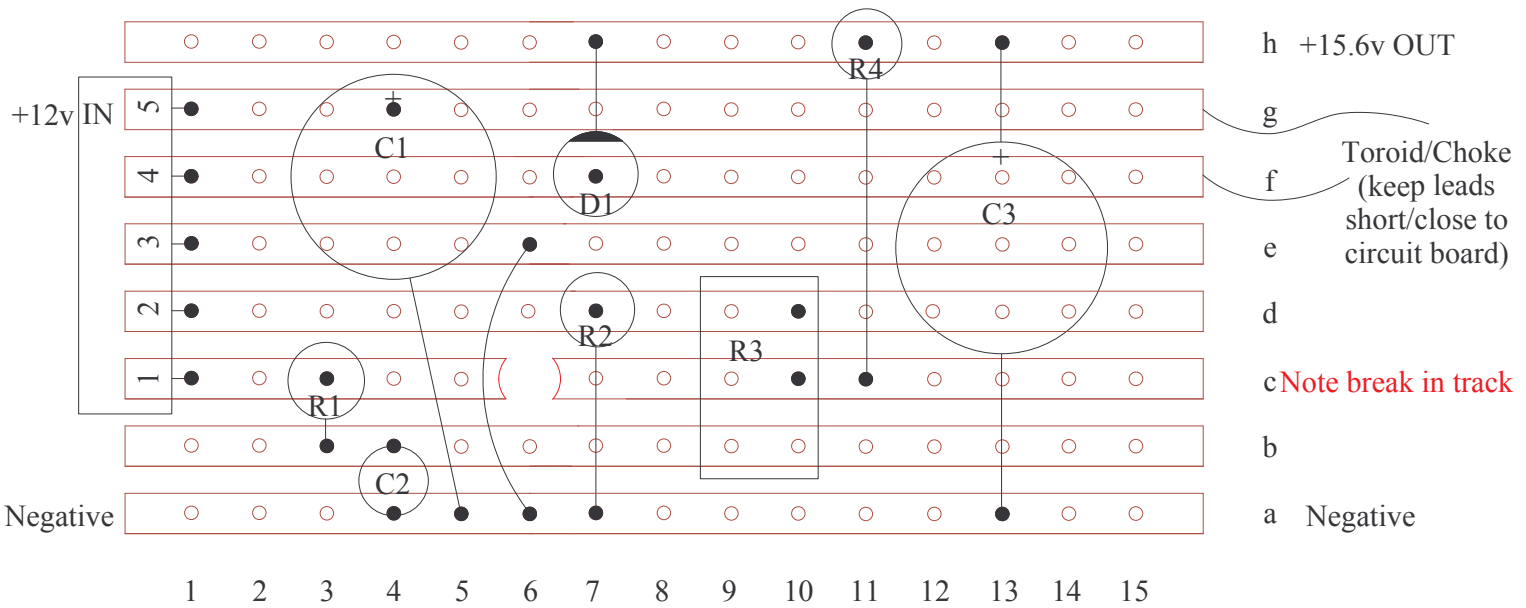
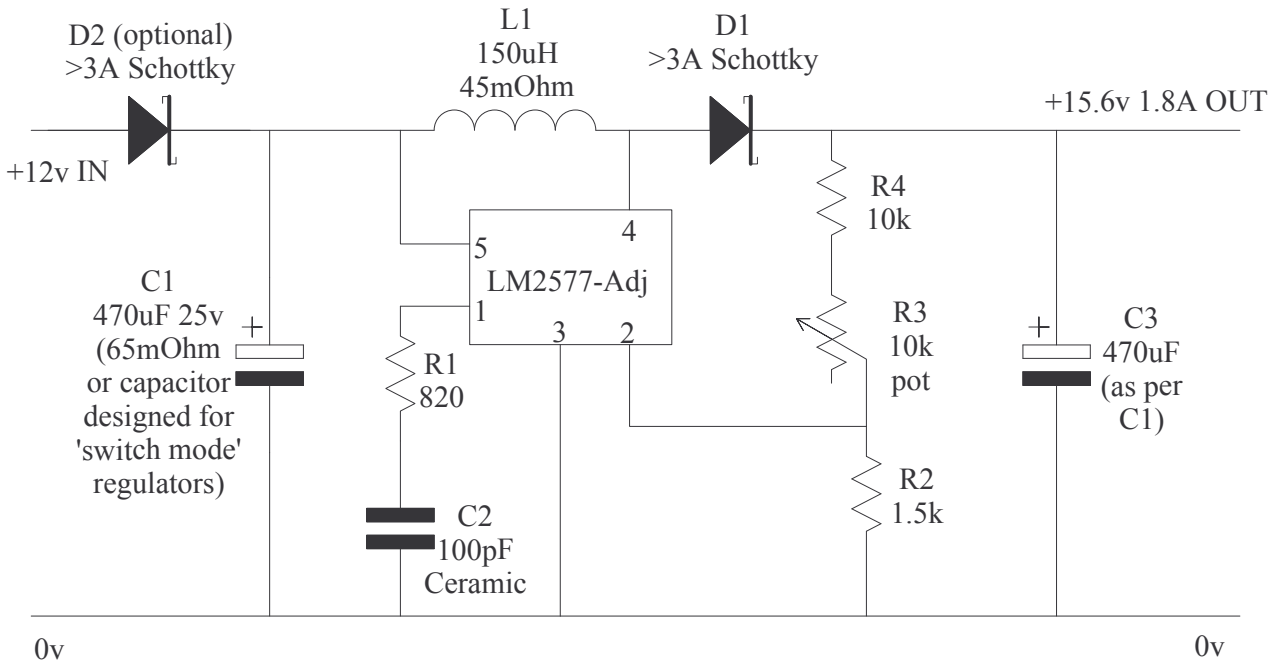


'Switch-mode' voltage regulator/booster
www.flyelectric.ukgateway.net



Top view (D2 not shown)

- Parts list (Maplin UK part numbers):
 C1,C3 470uF 25v electrolytic (DT66)
 (uF & V can be larger,
 impedance as low as possible)
 C2 100pF (WX56)
 R1 820 (M820R)
 R2 1k5 (M1K5)
 R3 10k vert.preset (UH16)
 R4 10k (M10K)
 L1 6A 150uF Choke (JL72)
 D1,D2 1N5821 (JA49)
 LM2577-Adjust (AD90)
 Veroboard

Circuit designed for car battery source (eg: 11-14v).
 In theory other source voltages are possible (3.5-40v)
 but component values will need to change.
 The LM2577 can boost voltage to 65v.
 It can deliver 3A but this is 'throughput' not
 output current which will always be less.
 See Panasonic's "Switchers made Simple"
 design tool for changes to this design or where
 suggested components are not available.