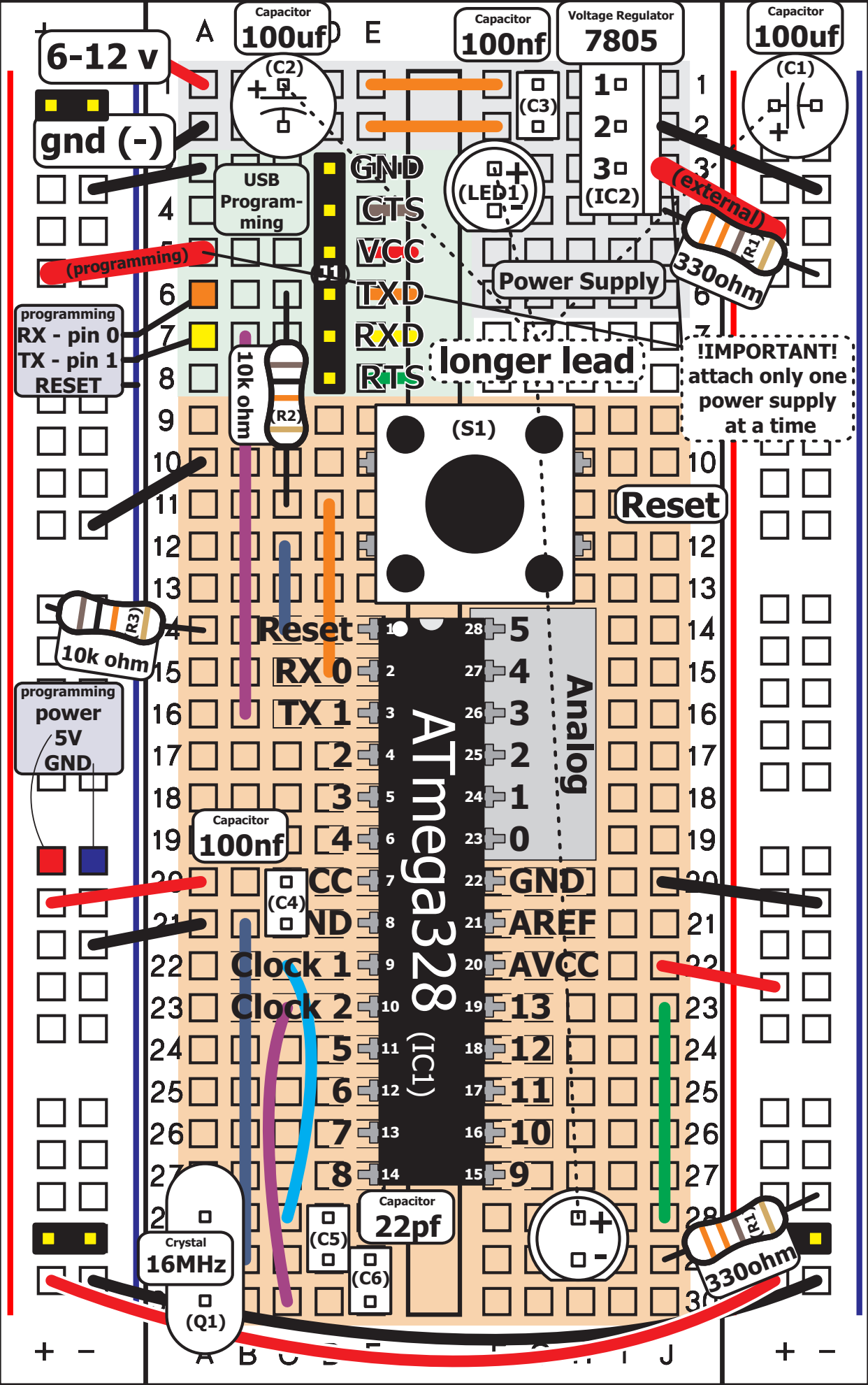
6-12 v
gnd (-)
Capacitor
100uf
(C2)
Capacitor
100nf
(C3)
Voltage Regulator
7805
1
2
3
(IC2)
Capacitor
100uf
(C1)
USB
Program-
ming
GND
CTS
VCC
TXD
RXD
RTS
J1
(LED1)
(external)
330ohm
R1
(programming)
Power Supply
programming
RX - pin 0
TX - pin 1
RESET
10k ohm
(R2)
longer lead
!IMPORTANT!
attach only one
power supply
at a time
(S1)
Reset
10k ohm
R3
programming
power
5V
GND
Reset
RX 0
TX 1
2
3
4
CC
ND
Clock 1
Clock 2
5
6
7
8
ATmega328
(IC1)
5
4
3
2
1
0
Analog
GND
AREF
AVCC
13
12
11
10
9
Capacitor
100nf
(C4)
Capacitor
22pf
(C5)
(C6)
Crystal
16MHz
(Q1)
330ohm
R1