

Components for Interface Board

1: D1
1N4148 Diode
Match diode stripe with stripe on board

2: R1, R2
330Ω Resistor
Orange-Orange-Brown

1: R3
10K Ω Resistor
Brown-Black-Orange

1: C1
0.1 μF Capacitor

1: C2
220μF Electrolytic Capacitor
Longer lead is +

1: LED POWER
Bi-Color
Shorter lead is on flat side

1: R4 Speed Adjust
100K Ω Potentiometer
Adjusting screw matches screw symbol on board

1: S1 ON/OFF
SPST Switch Pin spacing allows only two ways to place. Either way is OK.

4: S0, S1, P1, P6
4-Pin Male Connector
Plastic lip matches with stripe on board

1: J7 3-Pin Male Header*
Bump Bot Dis En

2: J4 3-Pin Male Header*
ISP

1: J6 3-Pin Female Header. (7.2V 5V GND)
Don't use the long female strip

1: J5 10-Pin Female Header*
Remote Controller Port

1: U1 28-Pin Dip Socket for ATMEGA_48

2: U2, U3 7805
5 Volt Regulator

2: J1 J3 20-Pin Male Ribbon Cable Connector**
See note below

1: Jumper
Place on Bump Bot Male pins when board is completed.

1: ATMEGA 48
Place in socket when board is completed.
Do Not Solder

Dashed outlines mean component orientation is critical

*Cut desired number of units from long strip

**The single slot in the housing faces the center of the board