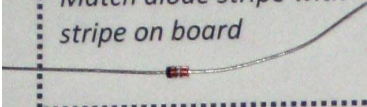


# Components for Interface Board

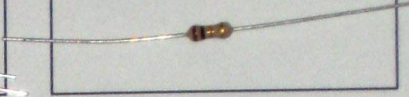
1: D1  
1N4148 Diode  
*Match diode stripe with stripe on board*



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



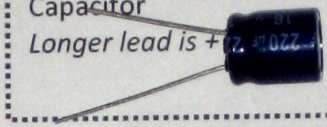
1: R3  
10K Ω Resistor  
Brown-Black-Orange



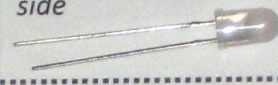
1: C1  
0.1 μF Capacitor



1: C2  
220μF Electrolytic  
Capacitor  
*Longer lead is +*



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



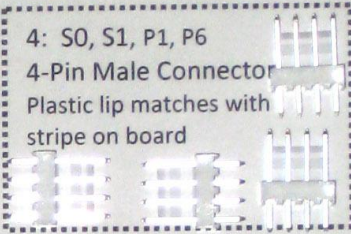
1: R4 Speed Adjust  
100K Ω Potentiometer  
*Adjusting screw matches screw symbol on board*



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



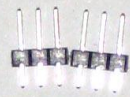
4: S0, S1, P1, P6  
4-Pin Male Connector  
Plastic lip matches with stripe on board



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



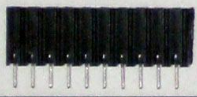
2: J4 3-Pin Male Header\*  
ISP



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



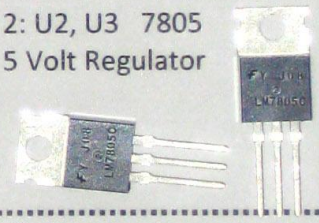
1: J5 10-Pin Female Header\*  
Remote Controller Port



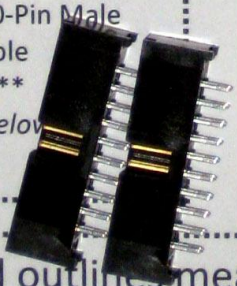
1: U1 28-Pin Dip  
Socket for ATMEGA\_48



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