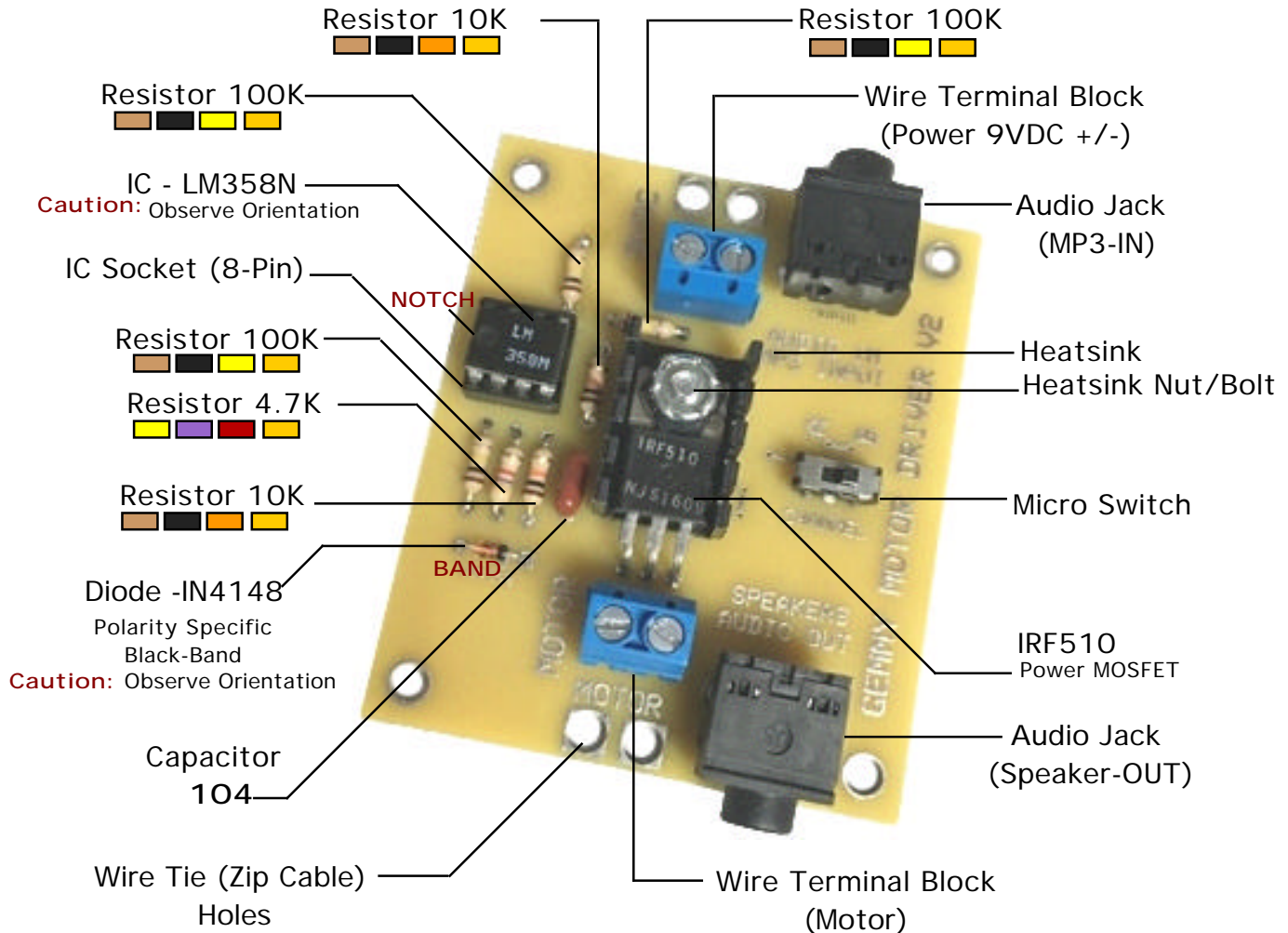



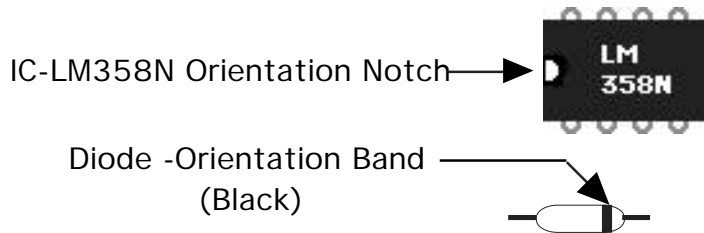


Talking Skull DC Motor Controller Assembly Guide



Resistor 100K  (Brown - Black - Yellow - Gold)
Resistor 10K  (Brown - Black - Orange - Gold)
Resistor 4.7K  (Yellow - Violet - Red - Gold)

CAUTION

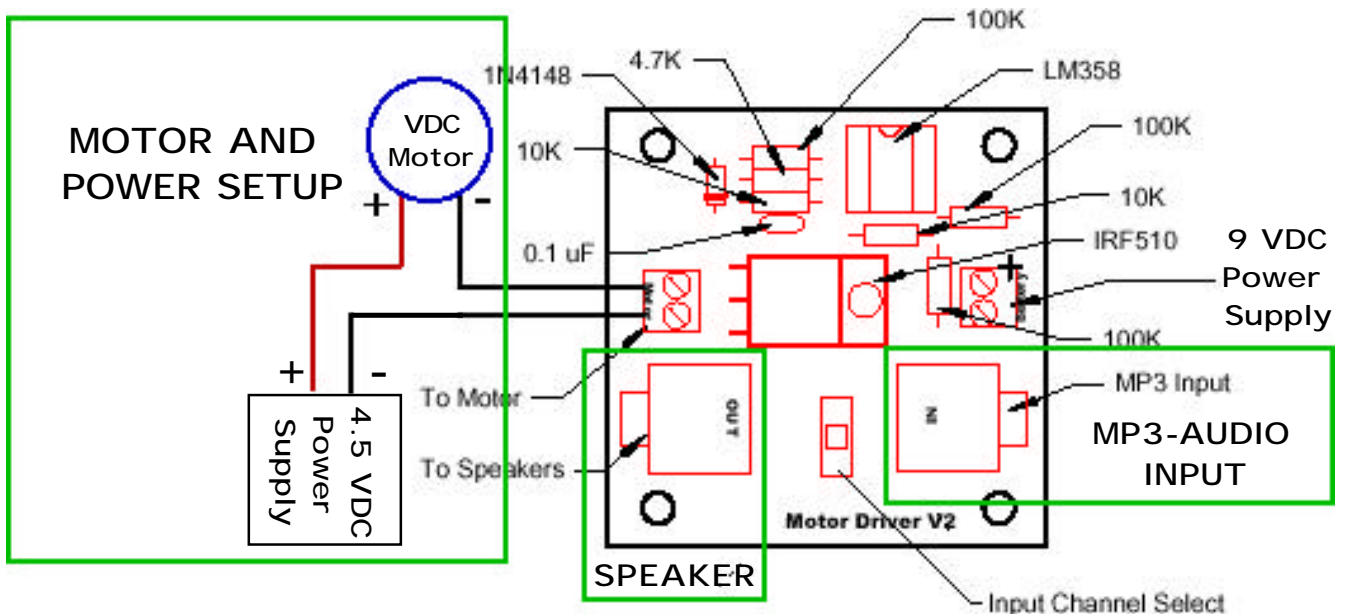


IC-LM358N Orientation Notch →

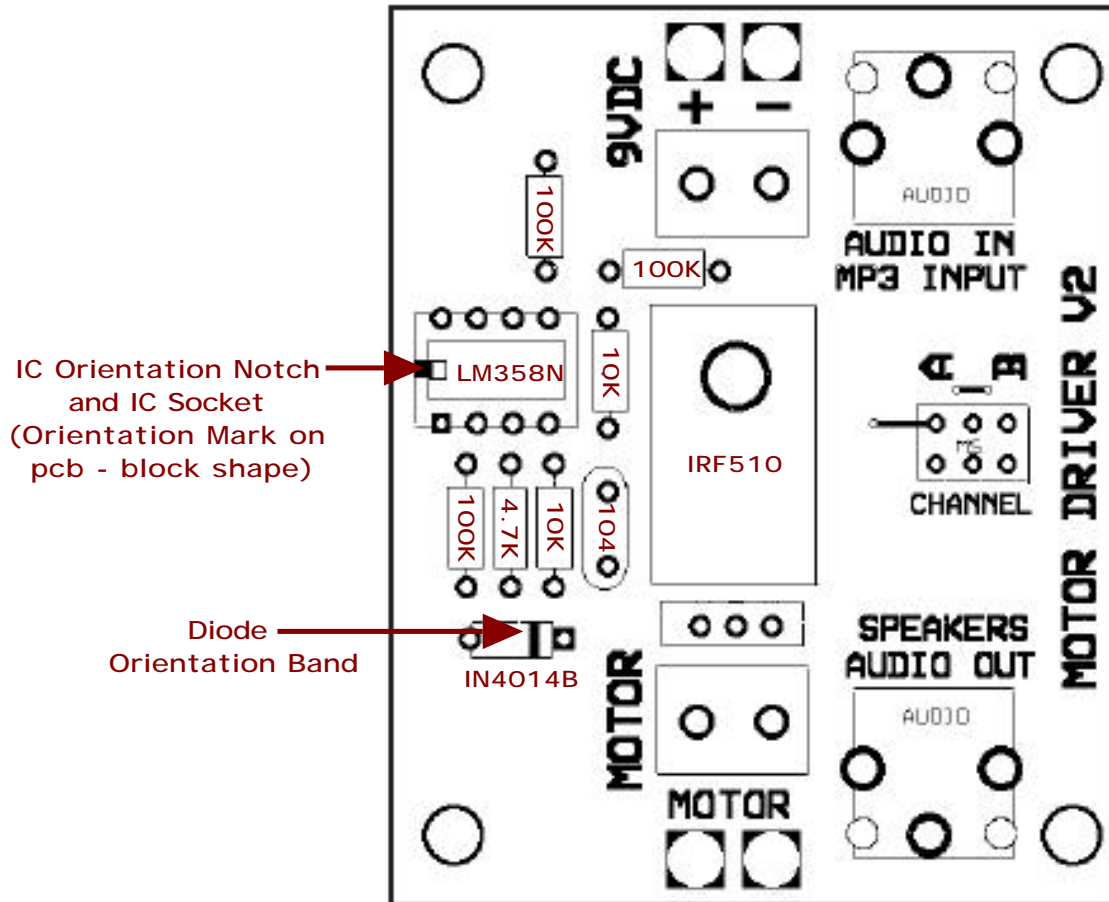
Diode -Orientation Band (Black) →

Talking Skull DC Motor Controller Assembly Guide

Talking Skull DC Motor Driver, V2	9/7/16		
Parts List			
	Jameco	Radio Shack	
Part Description - Driver Board	Part number	Part number	Needed
IC- LM358P	23966		1
IC socket, 8 pin	112206	276-1995	1
Capacitor, 0.1uF (104)			1
Power MOSFET, IRF510	209234	276-2072	1
10k ohm resistor (BRN-BL-OR Gold)		271-1126	2
100k ohm resistor (BRN-BL-Y - Gold)		271-1347	3
4.7k ohm resistor (Y-V-R - Gold)		271-1330	1
1N4148 Diode	36038	276-1620	1
Slide switch mini DPDT	161817		1
3.5mm stereo jack, PCB mount	2177740		2
Heatsink for IRF510			1
Heatsink & MOSFET Mounting Hardware			1
Wire Terinal Block - 2 Position			2
9V battery snap on wire lead	109154	270-324	1
Talking Skull Printed Circuit Board (PCB)	Blue Point Engineering		1
Optional TEST Hardware			
Battery Snap 9VDC	2161537	274-0251	2
330 ohm resistor (BRN-GN-BRN)			1
RED LED	231160	274-0287	1
Connection -Hookup Wire			2
9VDC Battery - Two			2



Talking Skull DC Motor Controller Assembly Guide



IC Orientation Notch and IC Socket
(Orientation Mark on pcb - block shape)

Diode Orientation Band



1. Install all Resistors on pcb

- 100K Ohm Resistor (3)
- 10K Ohm Resistor (2)
- 4.7K Ohm Resistor (1)

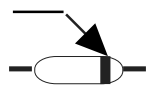
Resistor 100K	
(Brown - Black - Yellow - Gold)	
Resistor 10K	
(Brown - Black - Orange - Gold)	
Resistor 4.7K	
(Yellow - Violet - Red - Gold)	



2. Install Capacitor 104 on pcb



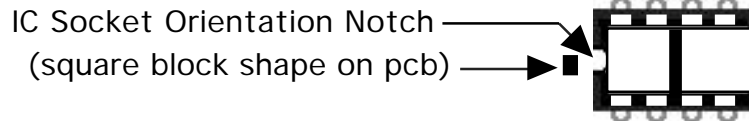
3. Install Diode, (IN4014B) Note Orientation Band location on diode
Diode -Orientation Band (Black)



4. Install micro switch

Talking Skull DC Motor Controller Assembly Guide

- 5. Install IC Socket, Note Orientation Notch on end of socket match to printed circuit board (pcb) mark (Square Block)

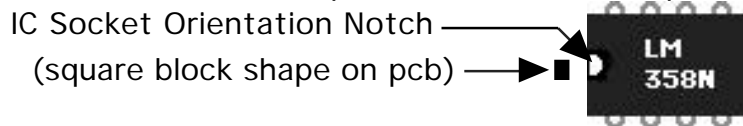


- 6. Install Heat sink and IRF510 Power MOSFET using nut and bolt

- 7. Install Wire Terminal Blocks

- 8. Install Audio Jacks

- 9. Install IC LM358N into IC socket, Note Orientation Notch on end of IC match to socket notch and printed circuit board (pcb) mark (Square Block)



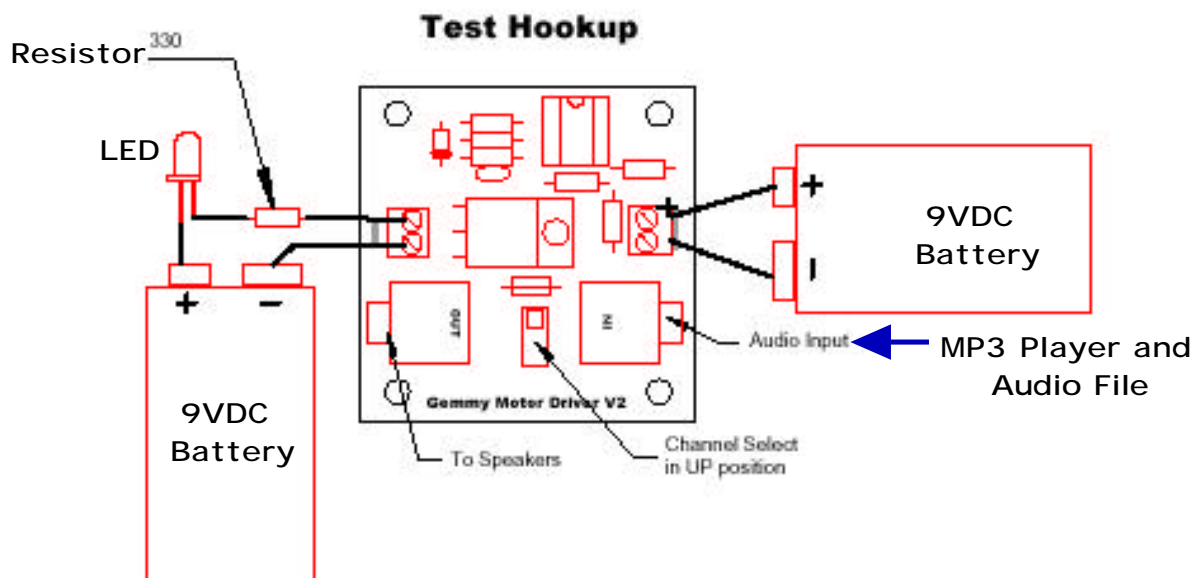
- 10. Check board soldering joints, part placement on pcb and part orientation to verify all components installed and placed correctly on board.

- 11. Test Board for Operation (See Test Hookup)

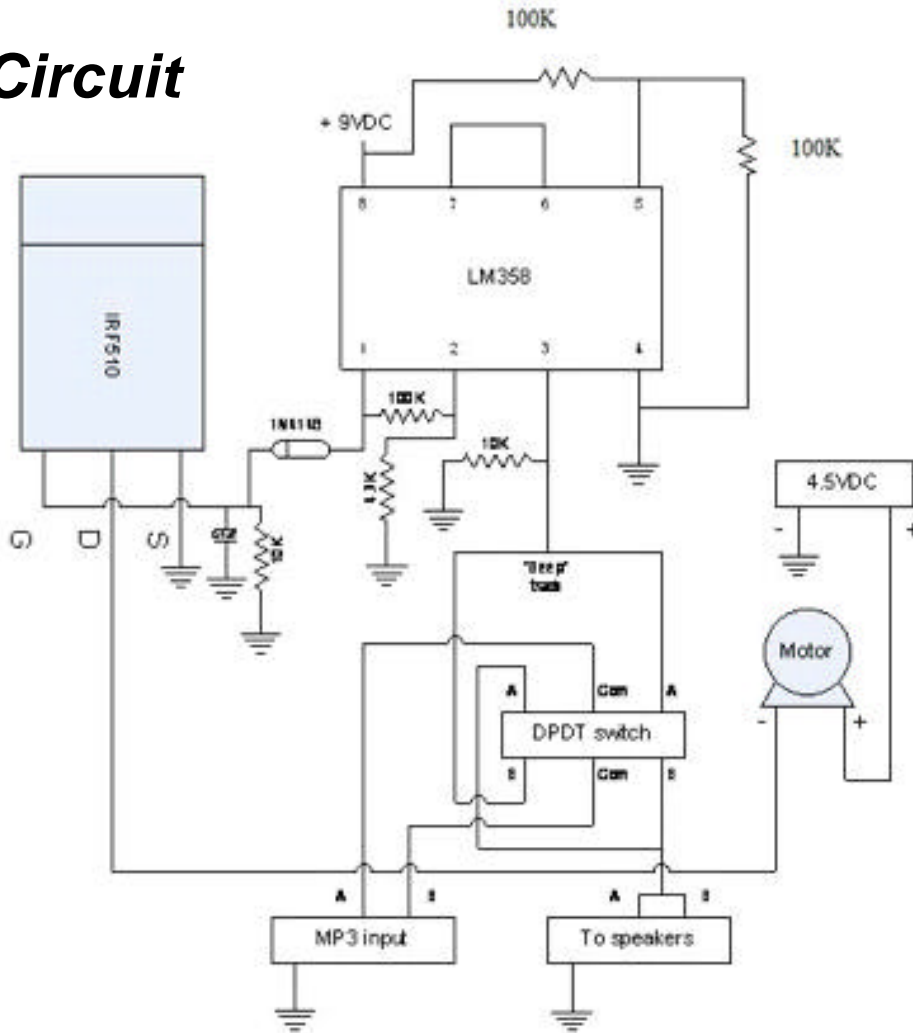
- 12. Connect power supply and motor to board (Use wire zip ties to secure motor and power wired to board)

- 13. Go to Instructables.com and look at "Modify A Talking Skull to Say What You Want" by Jeff Haas

(<http://www.instructables.com/id/Modify-A-Talking-Skull-To-Say-Anything-You-Want/?ALLSTEPS>)



Circuit



PCB

