



Star Engineering

DC MOTOR CONTROL

How to use the Board

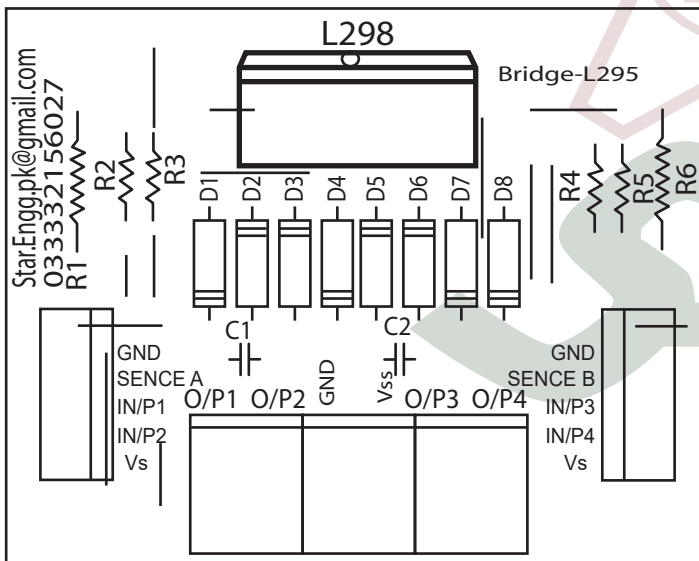
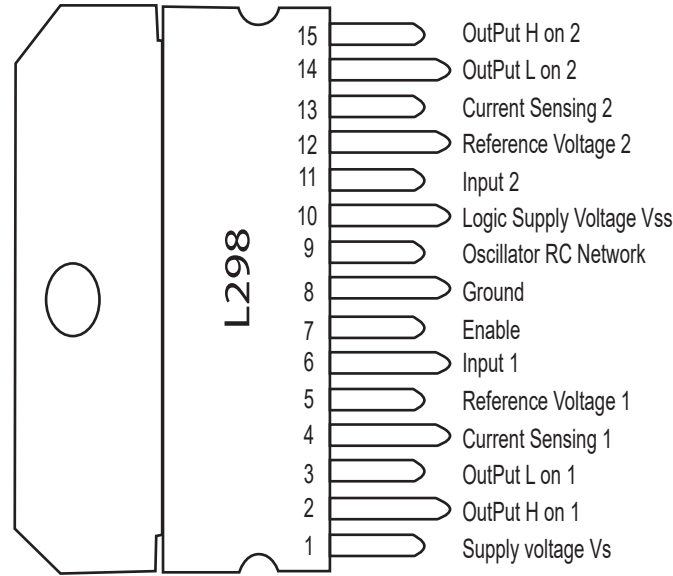
There are two crimp-shell connectors for dual H-bridge control via microcontroller, as you can see crimp-shell connectors are placed on right and left bottom on pcb layout, these crimp-shell connectors are for logical supply (5VDC and GND) also logical signal (discrete) from controller for motor's movement like CW, CCW, Speed Control. Vs is 5VDC, GND, IN/P1 and IN/P2, sense A for motor 1 and Vs is 5VDC, GND, IN/P3 and IN/P4, sense B for motor 2.

At bottom center there are three two pin plugable terminal blocks,

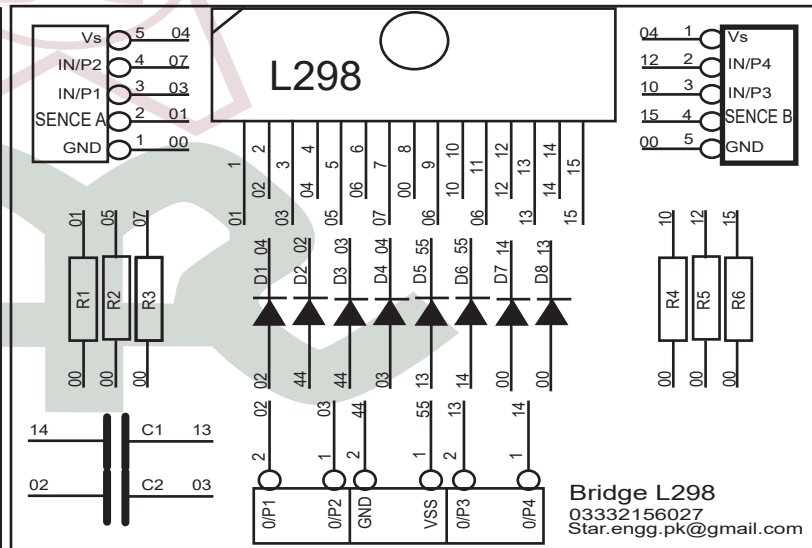
Terminal block labeled with O/P1 and O/P2 is for motor1 output

Terminal block labeled with O/P3 and O/P4 is for motor2 output

Terminal block labeled with GND and Vss is for motor supply



PCB LAYOUT



Schematics

Component list

D1,D2,D3,D4,D5,D6,D7,D8= 1N4007.

IC=L298.

R1,R6=10 OHM

R2,R3,R4,R5=10KOHM.



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