

Making board for Motor

This file contains instructions to make power supply distribution circuit for connecting dc motors, motor driver and ATmega2560 Development board.

Required Hardware:

- 1. Perf Board/ General Purpose PCB
- 2. DC Jack Socket
- 3. DC Jack
- 4. Wires
- 5. Soldering Iron and Soldering wire
- 6. Terminal Block/ Connector (Optional) (Not in the kit)
- 7. Switch (Optional) (Not in the kit)



Figure 1: Perf Board



Figure 2: DC Jack Socket



Figure 3: Switch



Figure 4: DC Jack





Figure 5: Terminal Block



Circuit Diagram:

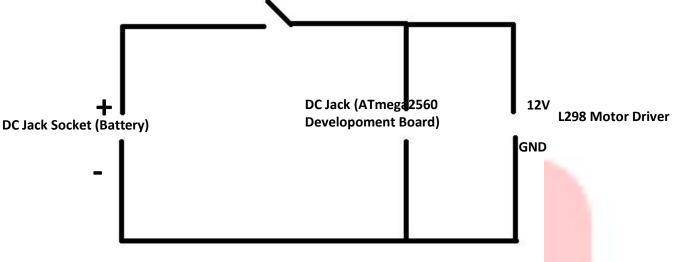


Figure 6: Circuit Diagram of Power Supply Distribution Circuit

Connection Instructions:

- 1. First study the circuit diagram as shown in Figure 6.
- 2. Solder the cables to the jack as shown in Figure 7, connect the positive cable (Red Colour) to the Tip (Figure 4) and negative cable (Black Colour) with Sleeve of the jack. *Note that cable for power jack is not provided in the kit.*



3. Solder the cables to the DC Jack Socket as shown in Figure 8 below, connect the positive cable (Red Colour) to the Tip (Figure 2) and negative cable (Black Colour) to the Sleeve



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of the DC Jack Socket. You can also use a glue gun to glue the connections or you can use insulation tape for safety.



- 4. Cut the perf board 50x50 mm.
- 5. Solder the Terminal Block, switch to the perf board using soldering cable according to Figure 6.

After finishing the connections, board and the connections looks like Figure 9.

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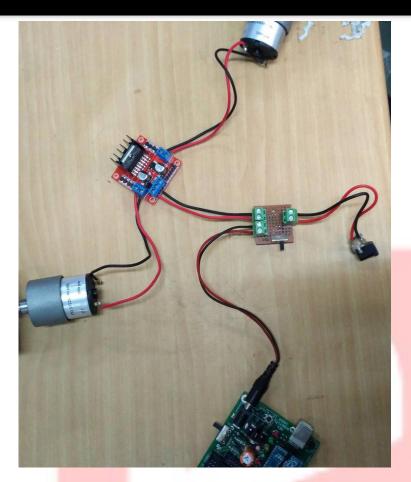


Figure 9: Motor Board connection