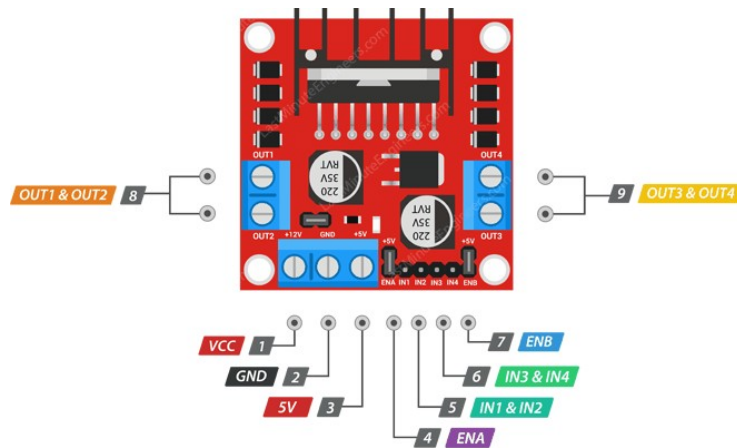


Interfacing Bipolar Stepper motor with Arduino Uno

Sl. No	Component Name	Description
1	Arduino Uno	Microcontroller unit used to control the Stepper Motor Driver
2	Stepper Motor PM42S-048-ZZV9	It is a universal stepper motor comes with 6 wires, can be used as both unipolar & bipolar configurations.
3	L298N Module	It will comes with 2 H – Bridges which is used to change the direction of the flow of current which is essential in Bipolar Stepper Motor.
4	12V DC Power Supply	To drive the stepper motor.

L298N Module (HW-095)

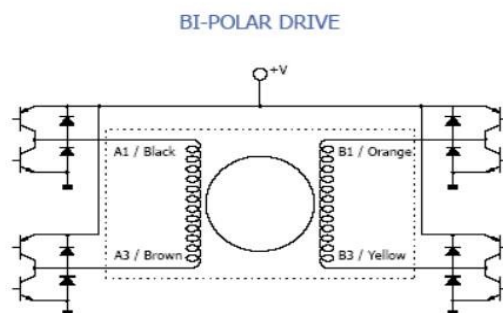
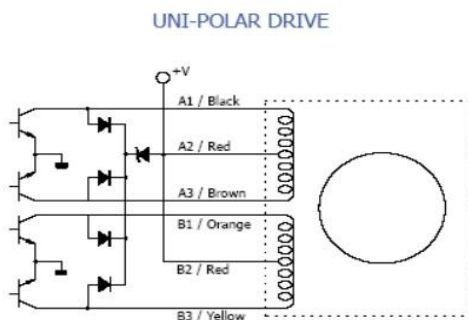


Stepper Motor – PM42S-048-ZZV9

■ Drive Circuitry and Wiring Diagram

Show the drive circuitry and standard color of lead wire.

1) Drive Circuitry



2) Switching Sequence (Using the Drive Circuit Indicated Above)

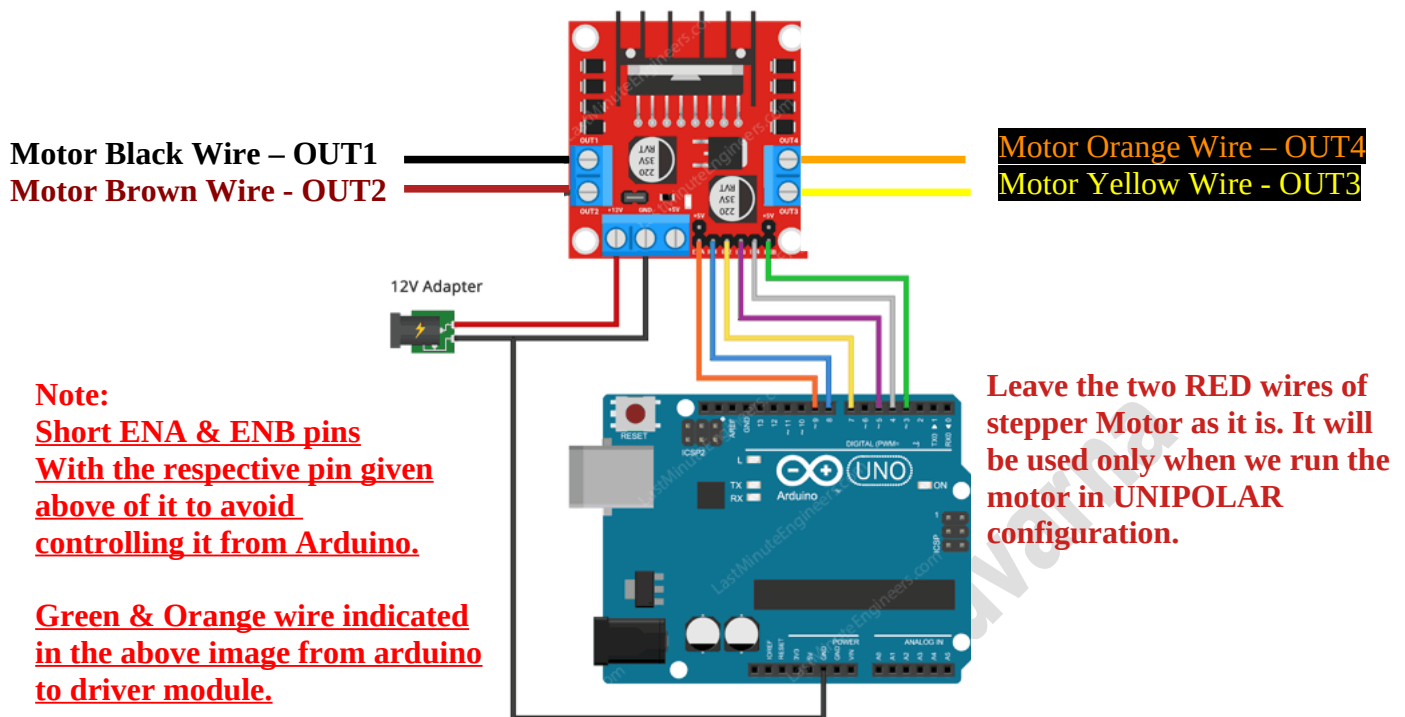
UNI-POLAR DRIVE

	A1 Black	A3 Brown	B1 Orange	B3 Yellow	A2/B2 Red/Red
1	—			—	+
2	—		—		+
3		—	—		+
4		—		—	+

BI-POLAR DRIVE

	A1 Black	A3 Brown	B1 Orange	B3 Yellow
1	—	+	+	—
2	—	+	—	+
3	+	—	—	+
4	+	—	+	—

Wiring Diagram:



Note: This is only for Educational purpose. Any one can use or edit this code with out any prior notice.

Open for all suggestions if any.