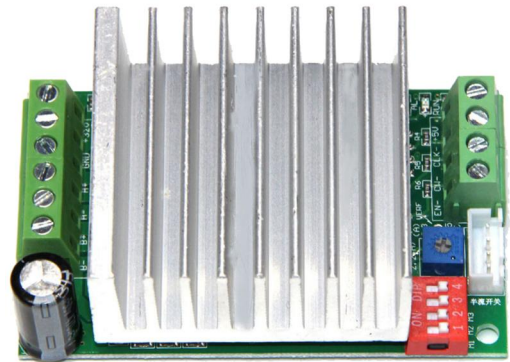
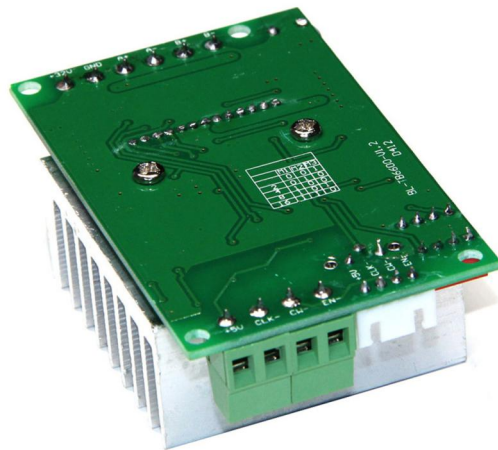


Manual

Nema 17 & Nema 23 Stepper Driver

Model# - TB6600HG



Read this manual carefully before making connections to the board.
Store this manual away for further reference.

Safety Notes:

The electronics of the control board is designed to accept DC power ONLY. Ensure that the positive and negative connections are made correctly before powering on the unit. Incorrect wiring will cause damage to the board.

The control board is an open circuit design. Do not allow conductive objects such as small pieces of wire or stray pieces of metal to touch any of part of the circuit. Mount inside an inclosure using insulated (plastic) stand offs or insulating pads. Do not mount directly to any conductive metal or aluminum plates. Handle with care, do not drop or touch the electronic parts on the board.

Keep the board from damp environment.

Keep the board in adequate ventilation.

Keep the board from mechanical damage.

When making adjustments or changing wiring be sure to always disconnect the power.

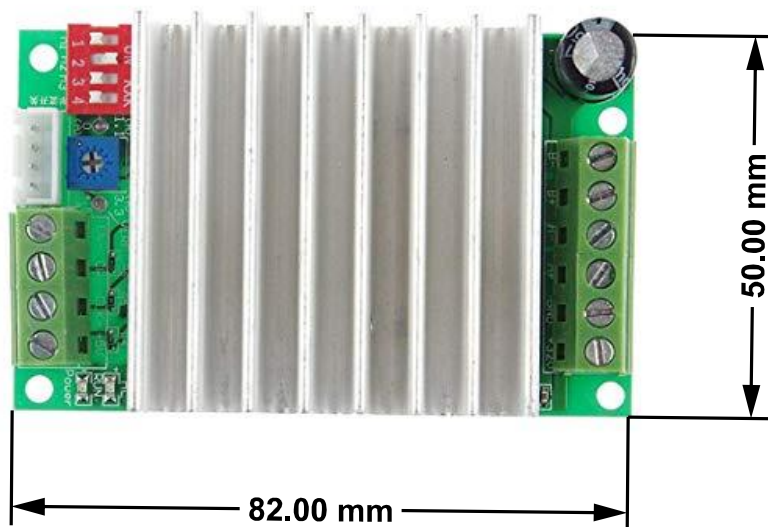
Do not install any means of disconnection between the driver and stepper motor.

Always monitor your stepper motors for over heating. If you cannot hold your hand on the motor, check for over current and/or over voltage.

Model# - TB6600HG

Description:

- 1) Operating voltage DC 10V-45V. DC32V switching power supply is recommended.
- 2) high-speed optical coupling 6N137, ensure high speed without losing step.
- 3) Toshiba's new high current, high voltage TB6600HG new original chip, there are low-pressure shut-off, overheating parking and over-current protection circuit, short-circuit protection and increased compared to TB6560.
- 4) Rated maximum output reached: $\pm 4.5A$.
- 5) for 4.2A 42,57 within the two-phase / four-phase / four-wire / six-wire stepper motor.
- 6) Automatic half current function.
- 7) Subdivision: full step, half step, 1/4-step, step 1/8, 1/16-step, up to 16 segments.



Model# - TB6600HG

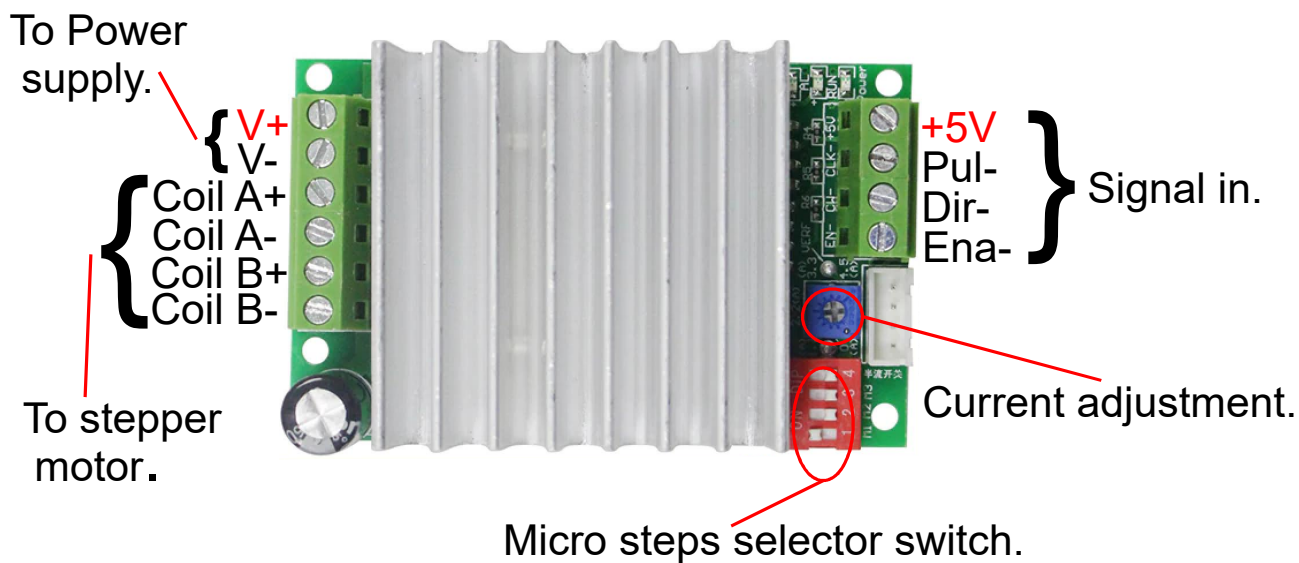
Product Features:

- 1, the output current is infinitely adjustable to meet your application requirements.
- 2, automatic half current function. And a semi-automatic flow switch, easy to use.
- 3, the use of high-speed optical coupling 6N137 ensure high-speed without losing steps.
- 4, printed on the back panel are subdivided setup instructions.
- 5, used to increase the heat sink, good heat dissipation.
- 6, output short-circuit protection, the use of mind.
- 7, using common anode input mode, there are two input terminals..

Name	Description
+32V, GND	Power +/-
A+, A-	Motor A phase
B+, B-	Motor B phase
CLK-	Pulse Input
CW-	Directional input
EN-	Enable
+5V	5V Input

	Setting		
	M1	M2	M3
1 Step	OFF	OFF	ON
1/2 Step	OFF	ON	OFF
1/4 Step	ON	OFF	OFF
1/8 Step	ON	OFF	ON
1/16 Step	ON	ON	OFF

Model# - TB6600HG



Note: If the input control voltage is 5V, then there is no current resistor needed.
If the input control voltage is 12V, then use a 1.5K resistor for R_EN, R_CW, R_CLK.
If the input control voltage is 24V, then use a 3.0K resistor for R_EN, R_CW, R_CLK

Model# - TB6600HG