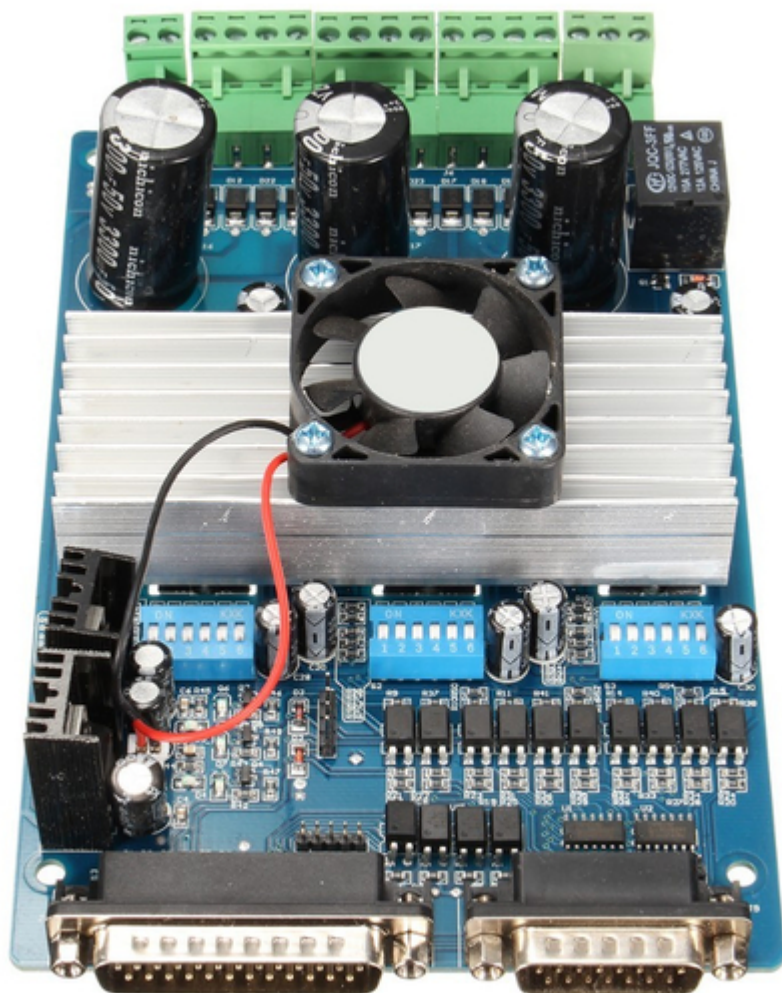




Toshiba 3 axis TB6560 User Manual

Driver board

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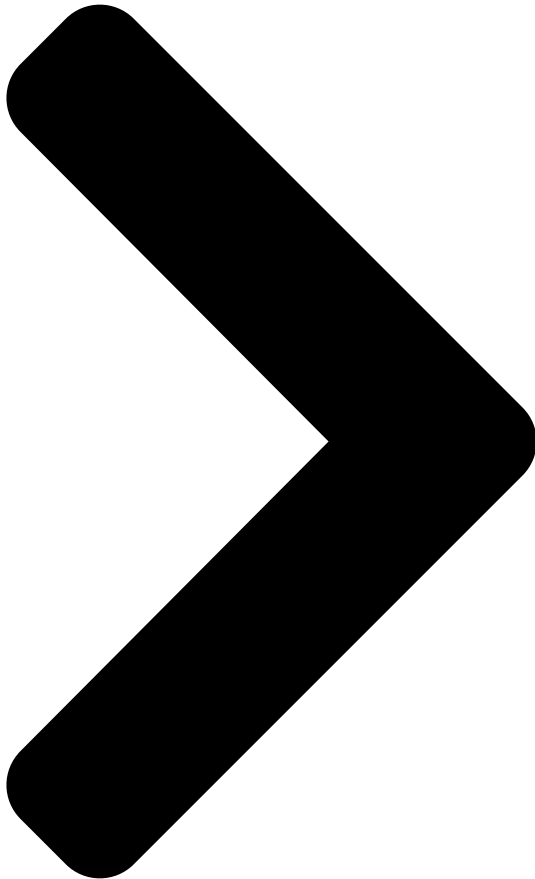
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CHANGZHOU WANTAI ELECTRICAL APPLIANCE CO., LTD

User Guide for 3 axis TB6560 driver board

Product Features:

- Toshiba TB6560AHQ chip - High power, maximum 3.5A drive current chipset
- 1-1/16 microstep setting - Higher accuracy and smoother operation than standard 1, 1/2 step
- Adjustable drive current settings for each axis - 25%,50%,75%,100% of full current can be set for different stepper motors
- Overload, over-current and over-temperature safety - Full protection for your computer and peripheral equipment

- ☐ On board current switching - Power output can be set according to specific user requirement
- ☐ Full closed-type optical isolation to protect the user's computer and equipment
- ☐ Relay spindle interface - Outputs Max. 36V 7.5A for spindle motors or coolant pump (only one device can be powered by this output!)
- ☐ 4 channel inputs interface- Can be used for XYZ limit and emergency stop
- ☐ Professional design - Two stage signal processing with super anti-jamming
- ☐ Bipolar constant current chopper drive with non-resonant region - Controls motors smoothly through range without creep effect
- ☐ Four control inputs (divided into pairs of knives) - Allows setting of limit and emergency stop
- ☐ Universal architecture - Supports most parallel software MACH3, KCAM4, EMC2 etc!

Dip settings:

Current Setting

100%

75%

50%

25%

1

2

Decay Mode Settings

ON

ON

OFF

ON

ON

OFF

OFF

OFF

3

FAST

ON

25%

ON

50%

OFF

SLOW

OFF

4

MicroStep Settings

ON

1

OFF

1/2

ON

ManualsLib.com

1/8

OFF

1/16

5

6

ON

ON

ON

OFF

OFF

OFF

OFF ON

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Related Manuals for Toshiba 3 axis TB6560

[Stepper drive Toshiba 4 axis TB6560 User Manual](#)

Driver board (11 pages)

[Control Unit Toshiba TECRA S1 Replacement Manual](#)

Memory module (24 pages)

[Control Unit Toshiba T300MVi Specifications](#)

Medium voltage drives (6 pages)

[Control Unit Toshiba TCB-CC163TLE Installation Manual](#)

For air conditioner (164 pages)

[Control Unit Toshiba RBM-A101VAE Installation Manual](#)

Vrf dx valve kit (53 pages)

[Control Unit Toshiba GN-4030-A3 Quick Start Manual](#)

Multifunctional digital color systems / multifunctional digital systems wireless lan/bluetooth (6 pages)

[Control Unit Toshiba nv Series User Manual](#)

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(106 pages)

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Shut-off valve unit (14 pages)

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Camera control unit (53 pages)

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Camera control unit (28 pages)

[Control Unit Toshiba IK-CU43A Instruction Manual](#)

Toshiba camera control unit instruction manual (23 pages)

[Control Unit Toshiba TC Series Manual](#)

Driver (85 pages)

[Control Unit Toshiba RBM-PMV0363E, RBM-PMV0903E Installation Manual](#)

Pmv kit (12 pages)

Summary of Contents for Toshiba 3 axis TB6560

[Page 1](#) User Guide for 3 axis TB6560 driver board Product Features: □ Toshiba TB6560AHQ chip - High power, maximum 3.5A drive current chipset □ 1-1/16 microstep setting - Higher accuracy and smoother operation than standard 1, 1/2 step □ Adjustable drive current settings for each axis - 25%,50%,75%,100% of full current can be set for different stepper motors □...

[Page 2](#) * Important Notes: □ Power supply DC 12-36V (not included) *Voltage Selection: 12-16V DC power supply for Nema 17 stepper motors 16-24V DC power supply for Nema 23 stepper motors 24-36V DC power supply for Nema 34 stepper motors (High voltage will burn up the chips or stepper motors!!!) *Amperage Selection: Output current of the power supply can be calculated by the following expressions: Output current = Rated current of your stepper motors * quantity + 2A...

[Page 3](#) Simple introductions: The definition of 1-PIN 25 of Parallel Interface: PIN9 PIN14 PIN7 PIN1 PIN2 PIN3 PIN8 PIN6 PIN4 PIN5 PIN16 PIN17 spindle X Enable X Dir X Step Y Enable Y Dir Y Step Z Enable Z Dir Z Step Expand Expand motor...

[Page 4](#) Limit setting for reference: The definition of output Interface: YA+ YA- ZA+ ZA- ZB+ ZB-...

[Page 5](#) Instructions of MACH3 Fig.1 Open MACH3 software, select mach3MILL, and then click OK. Please refer to Fig.1 Fig.2 The interface of MACH3 is displayed as Fig.2. The frequently-used action buttons are listed on the interface. We can configure MACH software at first.

[Page 6](#) □ Fig.3 Click PORT & PIN sub-menu of config menu. Please refer to Fig.3. Please refer to Fig.4 Fig.4 To set up the basic frequency within the above Circle 1. This parameter will affect the rotational speed of the motor. After the setup of basic frequency, select Circle 2 where Configuration Scripting will be defined, please refer to Fig.5.

[Page 7](#) Fig.5 To modify the software settings according to the definition of Parallel Interface which is detailed in the above circle. Fig.6 Then select the output signals column, as shown in Fig.6, and set up the corresponding items per the setup described in the circle.

[Page 8](#) Fig.7 After all have been set up, open the G CODE that needs to run, as shown in Fig.7 Fig.8...

[Page 9](#) Fig.9 After G CODE has been opened, you may see the red button RESET flashing. Click RESET to stop the flashing and then press CYCLESTART at the location of Circle 2 *Simple solutions if the driver does not work properly: □...