

BD5/10 Quick Setup Guide



Requirements

To begin, make sure you have the following equipment:

- A compatible motor.
- A small screwdriver for tightening the connectors (included).
- An I/O cable and connectors (included).
- For more detailed information, please download and read the *BD5/10 Hardware Manual*, available at www.applied-motion.com/support/manuals.

Step 1

Wire the drive to the DC power source. Note, the BD5/10 accepts DC power from 12-48V.

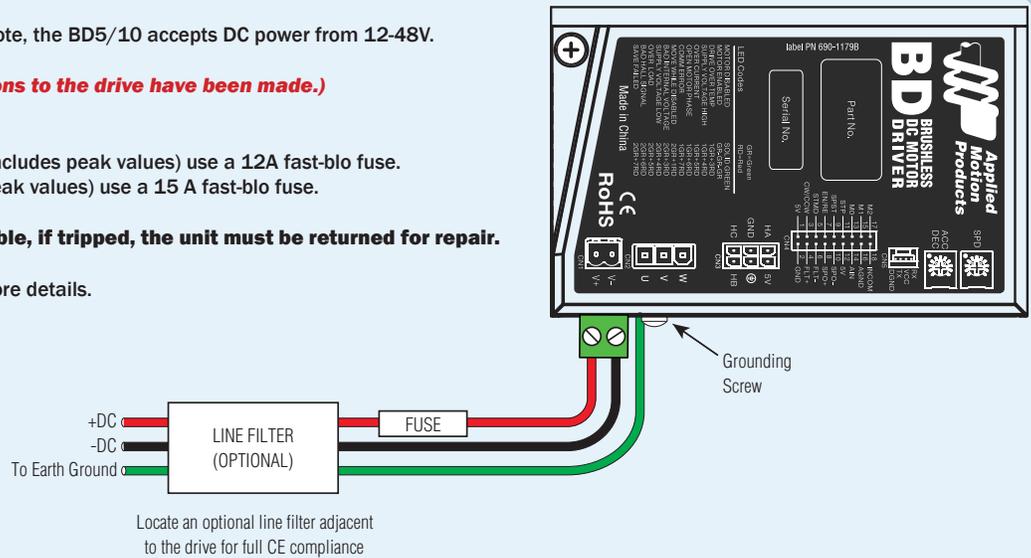
(Do not apply power until all connections to the drive have been made.)

External (Line) Fuse Criteria

For all DC supply currents up to 9A (this includes peak values) use a 12A fast-blo fuse.
For all currents above 9A (this includes peak values) use a 15 A fast-blo fuse.

The internal fuse is not user-replaceable, if tripped, the unit must be returned for repair.

See the BD5/10 Hardware Manual for more details.

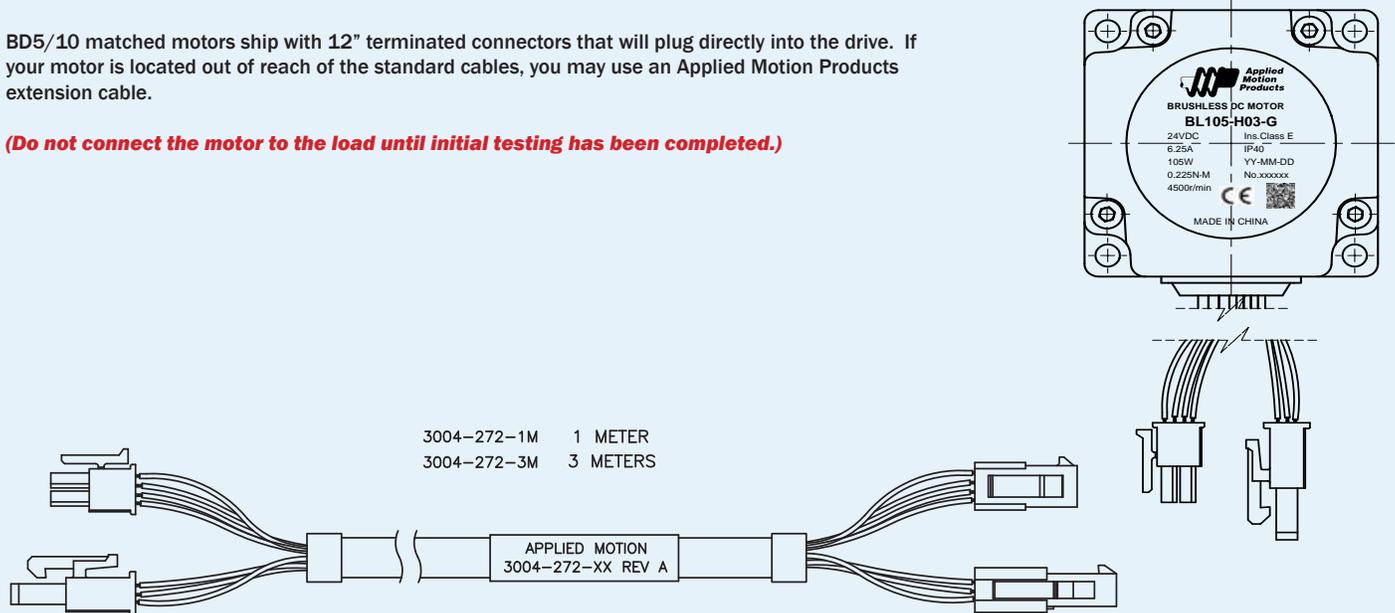


Step 2

Connect the motor to the drive.

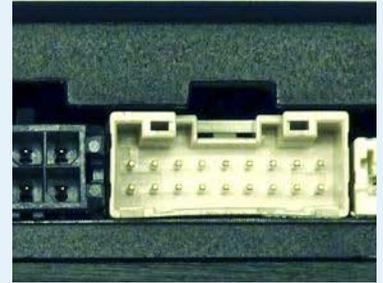
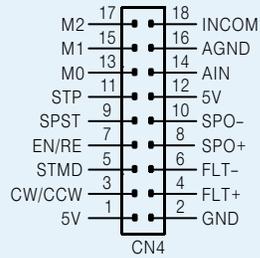
BD5/10 matched motors ship with 12" terminated connectors that will plug directly into the drive. If your motor is located out of reach of the standard cables, you may use an Applied Motion Products extension cable.

(Do not connect the motor to the load until initial testing has been completed.)

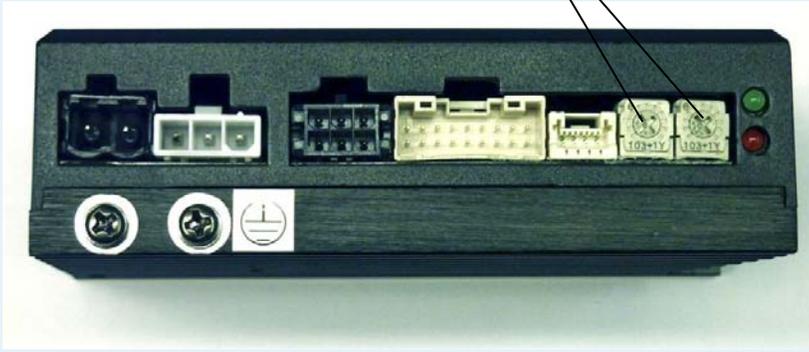


Step 3

- Ensure that DIP switch 1 is ON and 2 is OFF (to use internal power supply for I/O). Note, it may be necessary to remove the external cover to access the internal DIP switches. It may also be possible to access these switches by carefully reaching through the slots with the small screw driver that is included.
- Speed and accel/decel settings are controlled by on-board potentiometers, adjustable using the included screwdriver.
- Apply power to the drive.
- **TESTING:** To start the motor spinning, connect STP (pin11, black/white) to GND (pin2) and adjust the SPD pot to the desired speed. To reverse direction, connect CW/CCW (yellow) to GND (pin2).



SPD
ACC/DEC



BD5 PIN	BD5 FUNCTION	COLOR	COLOR CODE
1	5V	RED	
2	GND	BLK	
3	CW/CCW	YEL	
4	FLT+	GRN	
5	STMD	BLU	
6	FLT-	ORG	
7	EN/RE	GRY	
8	SPO+	VIO	
9	SPST	BRN	
10	SPO-	WHT	
11	STP	BLK/WHT	
12	5V	RED	
13	M0	YEL/WHT	
14	AIN	GRN/WHT	
15	M1	BLU/WHT	
16	AGND	BLK	
17	M2	RED/WHT	
18	INCOM	ORG/WHT	

Step 4

Your drive is now wired for use.

For further details on I/O and general operation please consult the *BD5/10 Hardware Manual*, available at <http://www.applied-motion.com/support/manuals>.

If you have any questions or comments, please call Applied Motion Products Customer Support: (800) 525-1609, or visit us online: www.applied-motion.com.



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