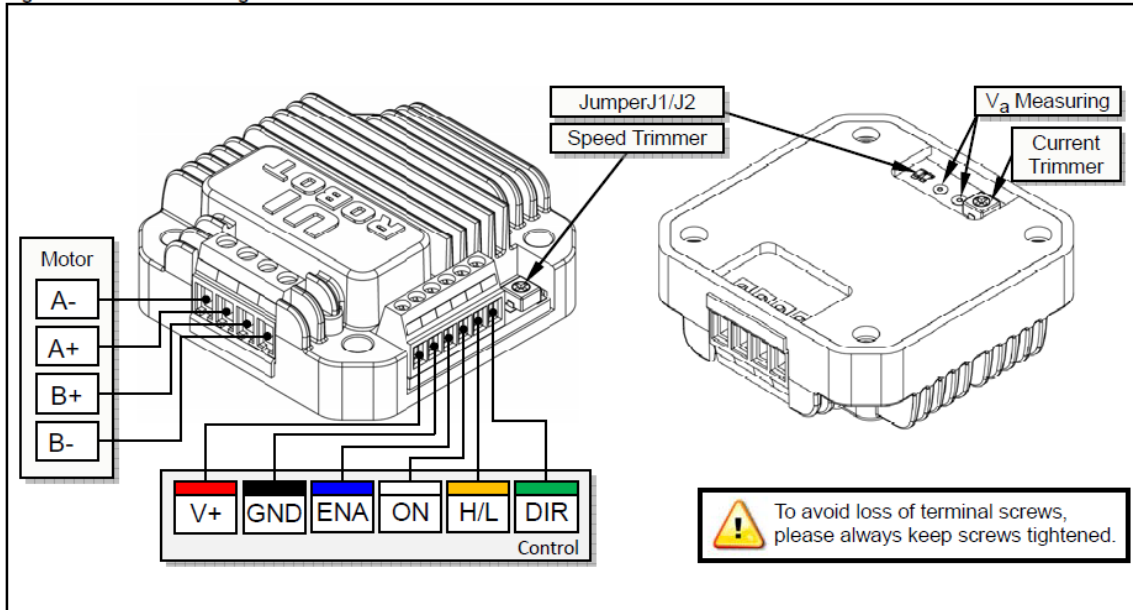


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Integrated onboard trimmer for speed control

UIM24032A Wiring Terminal

Figure 0-1: UIM4032A wiring terminal

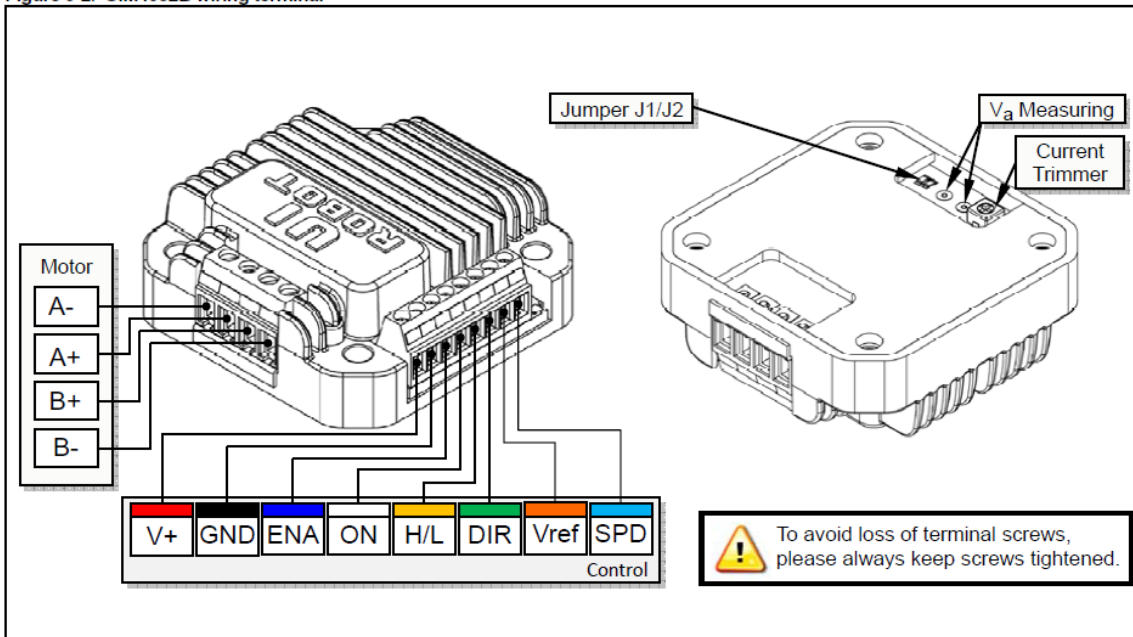


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Requires external pot (5K - 10K) for accurate speed control

UIM24032B Wiring Terminal

Figure 0-2: UIM4032B wiring terminal



Terminal	Symbol	Description
1	V+	Supply voltage 10 – 30 VDC
2	GND	Supply voltage ground
3	ENA	Enable/Disable H-bridge, Internally pulled up
4	ON	Run/Stop, internally pulled up
5	H/L	High / Low Speed Range selection, internally pulled up
6	DIR	Direction input, internally pulled up
7 [†]	Vref	5V Reference Voltage output (NEVER link Vref to GND)
8 [†]	SPD	Speed Control Voltage input (0 – 5V)

†NOTICE: Only UIM24302B provides this port.

Motor Terminal

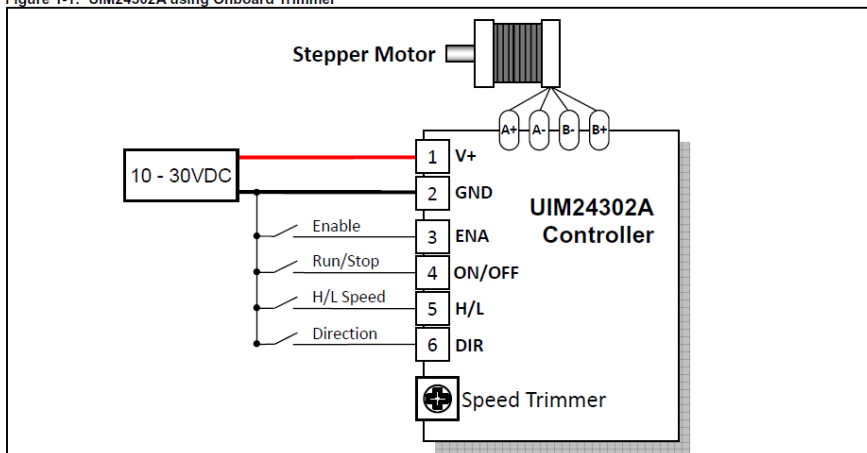
Terminal	Description
A+ / A-	Connect to the stepper motor phase A
B+ / B-	Connect to the stepper motor phase B

Typical Application

UIM24302A controller is equipped with a million-cycle speed adjusting trimmer. UIM24302B allows the user to use an external potentiometer or external voltage to control the speed.

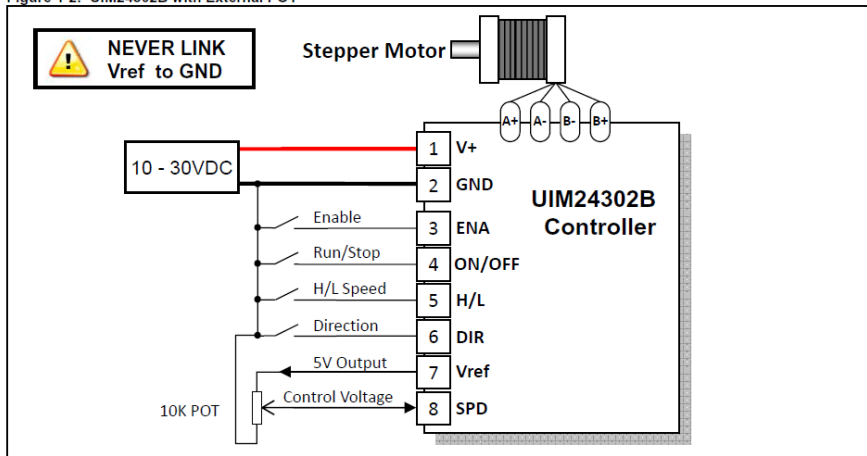
UIM24302A using Onboard Trimmer

Figure 1-1: UIM24302A using Onboard Trimmer



UIM24302B with External POT

Figure 1-2: UIM24302B with External POT



For users need to use external potentiometer (POT) to control the speed, UIM24302B provides a 5V reference voltage output, and a speed control voltage input port. The resistance of the POT should be between 5K and 10K ohms. Less than 5K will result in excessive power consumption, and larger than 10K will cause inaccurate measurement.