

UNIVERSAL CONTROL FOR STEPPER MOTORS

With good-quality stepper motors widely available at reasonable cost, this flexible, computer-driven, control board will make it rather hard to hold on to the belief that stepper motors are the exclusive realm of industrial electronics. If you are suspicious about "universal", just glance at the specifications table below; if you are into industrial electronics, well...

Stepper motors come in an astounding variety of types and sizes, and they are frequently spotted these in electronic machine tools and on hobby robots. Steve Cassidy has suggested using a home construction to produce one at a fraction of its original price. However the number of steps coming from the device, and the fact that it is often found to be more difficult to get going than a simple servo motor, more often than not causes the perplexed owner to carefully put his poor possession in the junkbox, together with other "possibly useful" materials.

In *Stepping Motors*, Cliveur Electronics (April 1980), the general methods were described for the design of stepper motors. Also that article provides a useful discussion of stepper motor terminology used further on in this article.

The main specifications of the proposed control board are contained in the shaded table on this page. The board is readily tailored to suit the user's requirements, but it should be made quite clear at the onset that each of the following sections is to be read closely to be able to decide on the most desirable circuit configuration for a specific application. A detailed discussion of each of the technical features is, therefore, indispensable for a good understanding of the operation of this fully reconfigurable lower-level board between computer and, for instance, robot limbs, a photograph, or a glider.



Stepper motors: some problems

The following is a necessarily brief discussion of the main difficulties to be overcome when using stepper motors.

Limited speed range: The motor windings constitute an inductive load, which limits the maximum speed of the coil current. Also, the winding's permanent magnet rotor causes an inductive voltage which further worsens the commutation. These effects limit the maximum achievable step rate (also *pull-in rate*), but can be overcome by utilizing system drive control.

Resonance: the undamped character of a stepper motor operating at a relatively low step rate causes its movement to be rather halting. The upper waveforms here in Fig.1 show the considerable overshoot after each step. Should the step frequency equal that of the undamped oscillations, resonant oscillatory motion, resulting in a powerful, jerky movement of the spindle. Mechanical damping devices have been developed to ensure a smoother spindle movement, but these permanent loads typically cause the already low efficiency of the stepper motor to fall below the acceptable level.

The lower waveforms here shown in Fig.1, provide evidence for the proposition that micro-step operation can provide a marked improvement in linear spindle movement,

Technical specifications

Driver capacity: Net motor types:	one 6 phase bipolar type, two 3 phase bipolar type, and 3 phase unipolar type, two 4 phase unipolar type.
Max. output current:	1.250A (max.) 4 A (typical) 1.250A (max.) 2 A (typical) Bipolar-controlled pattern and 30 step current flow direction.
Driver type:	Brushless, steady current supplies.
Output I/O:	4 bit data input and 2 bit handshaking or Centronics standard.
Speed:	10 - 25,000 with 1.250A (max.) 10 - 40,000 with 1.250A (max.) Regulation not required.

Elektor Stepper Motor Control

IM Harris



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Elektor Stepper Motor Control: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Elektor Stepper Motor Control : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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