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For more information, contact:
David Luna
Knight Educational Products
(214) 340-0265
dluna@knightonline.com

Garth Miller
BtB Marketing
(919) 872-8172
garth.miller@btbmarketing.com

Simple motor kits provide instruction about electricity, magnetism and electric motors ...

KNIGHT EDUCATIONAL PRODUCTS PROVIDES NEW LINE OF SIMPLE MOTOR BUILDING KITS

DALLAS, TX (May 1, 2012) – Knight Electronics' Educational Products Division, a global manufacturer and supplier of medical, trade and educational products, as well as training equipment, offers a series of simple motor kits that teach students the basics of electricity, magnetism and electronics.

Each kit includes the necessary motor components, motor building instructions, and informative material regarding the applications of different motor types and how to master orientation of speed controls. The motor kits are designed for instruction of students at any institutional level, and vary in difficulty based upon the tools or skills required to construct the device. The simple motor kits can be used in middle school through high school, as well as college/university to teach the different applications and uses of a simple motor.

The Reed Switch Motor kit is the simplest design, using a process of repeat magnetization and electromagnetic disabling in order to generate motor activity by way of two magnetic contacts in a glass tube filled with protective gas. A slightly more advanced version can be found in the Reed Switch Motor With Transistor kit, as it adds a transistor which allows a larger collector-emitter current to flow through the electromagnet. The transistor device included in the kit is actually two specialty transistors in one case, where the second (more powerful) transistor amplifies the signal from the first, prolonging both motor life and facilitating stronger power flow.

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The Hall Effect Motor kit uses a Hall effect integrated circuit (IC) unipolar switch and mimics the function found in many industrial brushless motors, where Hall effect ICs are the most widely used sensors.

Utilizing an optointerrupter as a rotor position sensor, the Optical Control Motor kit is the most sophisticated kit available from Knight. The optointerrupter is an electronic device consisting of a light emitting diode (LED) and a phototransistor with a slot between them. Voltage applied to the LED causes it to emit light that is then transmitted across the optointerrupter slot to activate the phototransistor. Thus, the circuit is completed only when the optointerrupter slot is clear.

“Knight Educational Products is proud to supply these motor kits to help educate future professionals,” said David Luna, vice president of sales and marketing for Knight Educational Products. “Used for a wide range of training purposes, these educational tools are a valuable addition to current curriculums, and our extensive inventory allows us to ship them immediately.”

Simple motor kits are available now from Knight Educational Products. Prices start at \$24.50. For additional pricing visit

http://www.knightedu.com/products/kits_and_projects/kits_and_projects.html, email sales@knightonline.com or call 800-323-2439.

To order the tools you need for success today, visit Knight Educational Products’ online store at www.knightedu.com.

A division of Knight Electronics, Knight Educational Products provides a wide-range of quality, cost-effective electronic components, medical products, tools, and apparel for schools, students, and professionals in skilled trades, including electronic technology, automotive, HVAC, computer networking, information technology, welding, massage therapy, and allied health.

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For more information, call 919-872-8172, or e-mail garth.miller@btbmarketing.com

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URL: <http://www.knightedu.com/products/>