

OWI ROBOT KITS

None of our OWI Kits require soldering (unless otherwise noted).

MOON WALKER II MV-979 (Light & Sound Sensor)

Moon Walker II begins to walk when it detects a change in light intensity or sound commands, and continues its four-legged voyage until instructed by an internal timer to stop. This kit presents an engaging opportunity to learn about some of the mechanics, operation and history of robots. When assembled, this robot uses a phototransistor to sense changes in light (such as turning on a lamp) and a condenser microphone to sense changes in sound (such as clapping). It converts those stimuli into electrical signals to power a motor, and the robot walks forward for a preset time. When it stops, affecting another change in area light or sound may activate it again. The sensors may be adjusted for different sensitivity levels. Printed circuit board pre-assembled.



Requires one (1) "AA" battery (part # 590001).

OWI-979K (PCB Unassembled) - Soldering Req'd

SOLAR CAR OWI-685 (Triple Action)

Sleek, powerful, unearthly, and very cool... this futuristic solar car is an exciting way to demonstrate the use of alternative energy. It features an aerodynamic sports car shell design, a 4-wheel chassis, a powerful 1.4V, 350mA solar cell (included) and a transparent plastic body that can be painted or left clear to display the car's inner mechanical construction. The steerable front axle, rear wheel and adjustable (directional/angle) solar panel mount are all independent parts, allowing for separate solar projects.



Requires one (1) "AA" battery (part # 590001).

The Triple Action Solar Car Kit is also available: (1) The two-way battery source allows for battery or solar power; (2) the kit design is an aerodynamic racer or tractor; and (3) it features a multi-speed transmission.

ROBOTIC ARM TRAINER OWI-007 (Wired Control)

The Robotic Arm Trainer teaches the basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. You can command this unit with its five switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways 350 degrees. After assembly, observe the dynamics of gear mechanisms through the transparent arm. Five motors and five joints allow for flexibility and fun! For educators and home schoolers, you'll find the robotics technology curriculum and personal computer interface useful tools.



Requires four (4) "D" batteries (part # 590005).

IBM PC Interface - (007-IBM) • Curriculum - (007-RTC)

AMPHIBIOUS SOLAR VEHICLE OWI-688 (Solar Power)

This kit introduces the fundamentals of solar power through hands-on experiments. The sun or any intense mobile light can power the solar battery (included). A multiple function switch (solar [1.4V, 350mA] or battery) allows this kit to be energized day or night, indoors or outdoors. The user can explore different types of energy and energy conversion with this land and water vehicle. Learn what materials solar batteries are made from and the characteristics of solar batteries, advantages, and disadvantages of solar power.



BEAMSTER OWI-209K (Beginner Soldering)

Beamster is a new Beginner Soldering Series kit requiring only a soldering iron and a few tools to create a multi-functional flashlight. BEAMSTER is ideal for emergency or everyday use aboard a boat, during camping, or while at a scout meeting. Activating the light is as easy as adjusting the four position slide switch: Beam or halogen light, fluorescent lamp (full power), fluorescent lamp (energy saving power), or off. It also features a 90 degree adjustable halogen light head, and a magnet on the back so you can mount it in a hands-free position.



Requires four (4) "AA" batteries (part # 590001).

Specifications:
Fluorescent Tube: U tube 5W, Bulb: Halogen Bulb 5.2V - 0.5A. Dimensions: 180mm x 54mm x 38mm

TURBO 2000 OWI-6567 (Optional Solar Power)

This OWIKIT explores propulsion principles and includes mini-construction projects that teach the basic principles of electricity and solar energy (optional). Put the pedal to the metal and be amazed with this lightning fast speedster. You'll be blown away by its serious air propeller and its direct motor drive for "speed" - or by its "power/torque" when down shifting. The solar panel (sold separately) is juiced with a 1.4V, 350mA source of pure power. For the educationally-minded guardians, this fire plug kit includes mini-construction projects that teach basic principles of electricity and solar energy (optional).



Requires two (2) "AA" batteries (part # 590001).

AM RADIO OWI-215K (Beginner Soldering)

Make it, then listen to your favorite radio station and appreciate your accomplishment. Students and hobbyists place electronic components and learn basic principles of radio wave technology and soldering skills with this hands-on AM RADIO circuit board kit. Place your components/resistors, condensers, and integrated circuits together, then solder them on a functional circuit and 'voila', an AM RADIO!



Requires two (2) "AA" batteries (part # 590001).

Specifications: Control: 2 AM radio frequencies 535kHz - 1605kHz. Dimensions: 235mm x 80mm x 240mm.

KNIGHT INVADER OWI-6577 (Solar Power)

Knight Invader is a super racecar that includes mini-construction projects, teaches the basic principles of electricity, and demonstrates three different modes of propulsion.



Requires two (2) "AA" batteries (part # 590001).

This sleek super racer has it all and a little more. KNIGHT INVADER can blow a fierce force of air to propel it off the starting line and challenges any contender to try and keep up with it when changed into direct motor drive. When on a mission, KNIGHT INVADER can secretly change its transportation mode to solar power (sold separately).

SOLAR BATTERY OWI-608 (Solar Power)

Have fun in the sun with our safe, encapsulated mini-solar panel. This sturdy panel will endure handling without breakage or cell damage traditionally associated with solar cells. Create various experiments by exposing and positioning the panel at the energy source. Intended for use to familiarize students or hobbyists with fundamental silicon solar cell principles, and practical applications of solar cells. Mounting bracket not included.



Current: 350mA. Voltage: 1.4V. Compatible with: OWI-654, OWI-655, OWI-6567, OWI-6577.

ROCKIT ROBOT OWI-7769 (Sound/Touch Sensor)

OWI introduces to their award winning Beginner Series of educational electronic robot and science kits...Rockit Robot! The new futuristic style includes high performance and superior materials. Rockit Robot evolves as a spunky little robot that you can build. Explore the fundamentals of robotics with this informative and entertaining robot kit. Appropriate for ages 10 and up, Rockit Robot is an intelligent robot with a touch/sound sensor. If it comes in contact with an object or hears a loud noise (such as hands clapping), Rockit Robot automatically reverses, then turns left before embarking on a new course. Rockit Robot is lots of fun from the moment it arrives. Requiring only basic hand tools, it contains step-by-step instructions, pre-assembled printed circuit board, condenser microphone, and an easy-to-assemble mechanical drive system. It's an ideal gift for the educator, hobbyist or budding scientist.



Requires two (2) "AA" batteries (part # 590001).

OWI-769K (PCB Unassembled) - Soldering Req'd

OWIKIT TEACHKIT MV-RET

A complete teacher resource written by teachers for student experimentation with all OWIKIT robots (except 007 Arm)! Capture students' interest in simple and advanced robotics. Over 110 pages long, complete with answer keys, appendix and teacher guides.



ELEMENTARY TECHNOLOGY CURRICULUM OWI-ELEM2

(Beginner Experience Series Only)

A "teacher-friendly" learning guide about robotics and/or electrical technology that provides activities, concepts, and research assignments. Over 30-page curriculum.



Robot Rink OWI-RINK

A self-contained arena for demonstrating students' robot construction. Made of a durable, high-density styrene plastic construction. The mini instructions will provide suggestions for robot applications, such as: single or multiple crash-action robots. 44" in diameter, 3" high and will collapse into a compact 8" diameter coil for easy storage.



SOCIETAL IMPACTS OF COMPUTERIZATION TEACHKIT OWI-SIC

A must for grades 6-12 computer teachers who try to help their computer students understand value conflicts and ethical choices associated with electronics communication. Over 40 pages & 1 diskette that is PC/PowerMac compatible.



Teacher Training Guide OWI-TTG

This Guide will provide information necessary for willing educators to gain working background knowledge in order to successfully and comfortably implement the integration of Robotics Technology into existing curriculum and content. Explore robot fundamentals including the history of robots, types of robots and their practical applications.



ROBOTICS TECHNOLOGY CURRICULUM for ROBOTIC ARM TRAINER 007-RTC

This curriculum combines reproducible, printed student activities for OWI's Robotic Arm Trainer with PC/Mac computer Concepts of Robotics in Worldwide Web format. Includes software and over 25 pages.

