WELCOME TO CHANEY ELECTRONICS

Hello Teachers,

Since 1970, Chaney Electronics has been designing and manufacturing the highest quality educational electronic kits. Each Chaney kit comes complete with all necessary components, a drilled PC board, schematic, assembly instructions, theory of operation, and troubleshooting tips. You will find that building a Chaney Kit is educational, affordable and fun! Since all of our kits are manufactured here in Arizona, U.S.A., you can rely on us to ship your order out fast - usually within 24 hours and by offering FREE UPS Ground Shipping*, we can help you keep your classroom within budget.

Finding the right projects for your students is easy with our wide selection of products. In fact, we offer over 200 different solder kits plus 12 exciting Chaney Labs that cover a variety of interests and budgets.

Thank you for your continued support and enthusiasm you bring to technical education. We are grateful to be part of your classroom curriculum.

Sincerely,
The Chaney Electronics Staff

*School Orders over $100 can qualify for Free Shipping. Free Shipping is not available to Alaska, Guam, Hawaii, Puerto Rico or Canada.

HOW TO ORDER
TO ORDER: 1-800-227-7312    FAX: (480) 451-9495

PAYMENT: We accept Open Account Purchase Orders from schools in good standing with our Credit Department. All Purchase Orders must be authorized by the School District, email Info@ChaneyElectronics.com for information. Terms are NET 30. We also accept American Express, Discover, Mastercard, Paypal, Visa, Money Orders, Personal or School Checks. Sorry, we do not accept International Personal Checks.

SHIPPING CHARGES:
If your order is under $100, there will be a $9.00 Shipping/Handling Fee for Standard Ground Shipping. Orders that qualify for free shipping will be sent anywhere in the Continental US via Standard Ground service only. Express delivery is available to customers at the calculated Express shipping rate. Please Note: Express shipping can be quite expensive so please call for pricing.

ALASKA, HAWAII, CANADA, GUAM, and PUERTO RICO Orders will be charged a shipping charge of 10% of the Total Product Price. All Orders must be paid in U.S. funds. Please call for express shipping options.

RETURNS AND REPAIRS:
1. Any returns or repairs must be authorized prior to shipping and made within 30 days of the original invoice date.
2. Any returned kit must be unopened and unused. All returns are subject to a 15% Restocking Fee.
3. Chaney Electronics will provide repairs on our Kits up to 30 days from their original invoice date for schools/teachers only, provided that the kit has been assembled correctly on our circuit board per our instructions and have been completely checked by the instructor. If there are assembly and/or soldering errors there will be a charge for the repair work. We cannot accept kits that have been soldered with Acid Core Solder. In addition, our repair policy does not apply to any SMD/Hybrid Kit that uses SMD components.
4. If the student has made assembly errors, you will be advised of the cost of repairs before any work is done.
5. Please include copy of Original Invoice.

SKILL LEVELS

We provide Skill Levels so that you can decide whether a student is at the Skill Level required to build that kit. For safety reasons, we recommend students Not Build AC Powered Kits unless they have had instruction in AC safety precautions.

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<th>Beginner</th>
<th>No previous knowledge of electronics. Needs assistance from instructor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skill Level 2</td>
<td>Intermediate</td>
<td>Student has built electronic kits before. Knows electrical safety precautions and solders well.</td>
</tr>
<tr>
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<td>Advanced</td>
<td>Student has built many kits and has a very good soldering technique.</td>
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Chaney Electronics, Inc. • PO Box 4116 • Scottsdale, AZ 85261 • www.chaneyelectronics.com
Chaney Electronics, Inc. • 1-800-227-7312  • Fax: (480) 451-9495  • www.chaneyelectronics.com

Computer Based Training Courses

Chaney CBT courses introduce the basic concepts behind theories and applications of electronics by using detailed diagrams, step by step electrical operational procedures, animations, and user feedback through quizzes and tests. Chaney CBT courses are ideal for both classroom and individual use.

Available PowerPoint Courses:

C7800: The Atom
C7801: Current, Voltage & Resistance
C7802: Ohm’s Law
C7803: Resistor Color Code
C7804: Component Identification
C7805: Learn to Solder
C7806: All Six Courses Only $159.95

Resistor Color Code
Computer Based Training
Learn how to identify resistor values using their color coded bands. Ideal for beginners.

C9003: All Six Courses Only $164.95

C9001: Current, Voltage & Resistance
Learn the concepts of atoms, circuits, current, voltage, resistance, and the units to measure these parameters.

C9002: Ohm’s Law
Learn the relationships of current, voltage and resistance of circuits through visual demonstrations and mathematical formulas.

C9003: Resistor Color Code
Learn how to identify resistor values using their color coded bands.

C9004: Component Identification
Learn and memorize the physical appearance, name, schematic symbol and function of 18 common components.

C9005: Learn to Solder
Learn proper soldering techniques and troubleshooting through animations and step by step diagrams to build an actual kit (C6445 - See page 19).

C9006: All Five Courses Only $164.95

NOTE: The PowerPoint files used in the PowerPoint courses require PowerPoint versions from 1997 and newer. PowerPoint is usually part of the Microsoft Office Suite. Contact your IT Department to determine your version of PowerPoint.

Classroom Solder Practice Activity (With PowerPoint CD)
for up to 24 Students

Here’s the perfect way to introduce soldering to your students and give them the necessary soldering experience needed to build electronic kits. This activity box contains 24 etched and drilled 2-1/2” x 1” PC boards, a large bag of resistors, a bag of capacitors, a bag of diodes, a bag of LEDs, two different sizes of IC sockets and a bag of transistors. All of the components and circuit boards necessary to give 24 students ample practice in soldering. As a bonus we also include a PowerPoint CD that has information for the teacher to use to teach soldering techniques, and small commercially assembled board that the teacher can show students what good soldering joints look like. All that is needed is solder, soldering irons, cutters and safety glasses. Most school shops already have these, or they can be purchased from Chaney (See page 47). You get over 400 practice parts and 24 nonfunctional circuit boards for practice. Skill Level 1.

Classroom Solder Practice Activity with PowerPoint CD

C6774: $120.00

Additional Package of Parts & PC Boards for 5 extra Students

C6836: $23.50
Are you introducing soldering kits to your students? You’ll want one of these value packed exciting 4 in 1 Soldering Packages.

The student starts by following detailed instructions on “how to solder” and solders a non-functional “learn to solder” practice kit. This allows the beginner to gain hands-on soldering experience with actual components onto a PC board without ruining kit functionality in the process. After gaining some experience from the Learn to Solder Kit the student has three functional kits to build:

SECRET IRITRATOR KIT - About once a minute, the kit will produce a 3 second long tone then remain silent for another minute before making another sound. It is difficult for another person to find it because it remains silent for so long. Size of PC board: 2” x 1.25”.

ELECTRONIC SIREN KIT - This kit produces the upward and downward wail of a “police siren” as you press and release a small pushbutton. Uses a small speaker. Size of PC board: 2” x 1.25”.

MULTICOLOR LED FLASHER KIT - This kit uses 2 red LEDs, 1 yellow and 1 green LED. Features a control that can be adjusted to cause 2 groups of 2 LEDs to alternately flash or all 4 LEDs flash together. Features reliable IC circuitry. Size of PC board: 2” x 1.25”.

---

Learn to Solder Kit Package “A” / Skill Level 1

Package “A” starts off with our non-functional Learn to Solder Kit, which is an introduction to soldering and proper soldering techniques. After gaining some experience from the Learn to Solder Kit the student has three functional kits to build:

SECRET IRITRATOR KIT - About once a minute, the kit will produce a 3 second long tone then remain silent for another minute before making another sound. It is difficult for another person to find it because it remains silent for so long. Size of PC board: 2” x 1.25”.

ELECTRONIC SIREN KIT - This kit produces the upward and downward wail of a “police siren” as you press and release a small pushbutton. Uses a small speaker. Size of PC board: 2” x 1.25”.

MULTICOLOR LED FLASHER KIT - This kit uses 2 red LEDs, 1 yellow and 1 green LED. Features a control that can be adjusted to cause 2 groups of 2 LEDs to alternately flash or all 4 LEDs flash together. Features reliable IC circuitry. Size of PC board: 2” x 1.25”.

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Learn to Solder Kit Package “B” / Skill Level 1

Package “B” starts off with our non-functional Learn to Solder Kit, which is an introduction to soldering and proper soldering techniques. After gaining some experience from the Learn to Solder Kit the student has three functional kits to build:

PHASOR RAY KIT - This kit generates the sound of a phasor ray gun and flashes a brilliant orange light. Uses a small speaker, a crystal clear lens LED and 2 transistor circuit with adjustable sound control. Size of PC board: 2” x 1.25”.

RED STAR FLASHER KIT - This kit will really attract attention as it flashes a bright red star made up of six 5mm red LEDs. Features simple and reliable 2 transistor circuit. Size of PC board: 2” x 1.25”.

YES/NO DECISION MAKER KIT - Simply press the button on your decision maker kit and two brightly colored LEDs will begin to flash. As soon as you release the button, one of the LEDs will remain on. The green LED indicates yes and the red LED indicates no. Uses IC circuitry. Size of PC board: 2” x 1.25”.

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Learn to Solder Kit Package “C” / Skill Level 1

Package “C” starts off with our non-functional Learn to Solder Kit, which is an introduction to soldering and proper soldering techniques. After gaining some experience from the Learn to Solder Kit the student has three functional kits to build:

LED FLASHER KIT - This kit uses a 555 timer IC to alternately flash a red and green LED. The kit makes a great attention getter. Operates from 5 to 9VDC. Size of PC board: 1.5” x 1”.

IC DECISION MAKER KIT - When you press a small on board switch a bright green LED and a bright red LED begin to alternately flash. As soon as you release the button, one of the LEDs stays on indicating the decision. Uses a CMOS IC. Size of PC board: 1-3/8” x 1-7/8”.

TEMPERATURE WARNING KIT - The kit can be set to indicate a rise or drop in temperature by simply adjusting its control knob for ambient temperature. As the temperature changes, a Red or Green LED indicates over or under temperature from its setting. Size of PC board 2” x 1.8”.

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Learn to Solder Kit Package “D” / Skill Level 1

Package “D” starts off with our non-functional Learn to Solder Kit, which is an introduction to soldering and proper soldering techniques. After gaining some experience from the Learn to Solder Kit the student has three functional kits to build:

COIN TOSSER KIT - This kit uses 3 transistors and 2 LED circuits to make decisions or replace coin tossing. Features 1 red and 1 green LED that flash when you touch the sensor wires. When you quit touching the sensor your decision is shown by the LED that remains on. Size of board: 1.6” x 2.2”.

SUPER LED FLASHER KIT - This kit features a two IC circuit which alternately flashes 4 LEDs: 2 red, 1 yellow and 1 green. Size of board: 2” x 2”.

NO ENTRY KIT - This Kit features a custom designed full color label and a bright flashing red LED. Perfect for bedrooms, dorm rooms, teachers’ desks, offices, or any other place that you would like to express yourself. Size of PC board: 3.25” x 4.75”.

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Learn to Solder Kit Package “E” / Skill Level 1

Package “E” starts off with our non-functional Learn to Solder Kit, which is an introduction to soldering and proper soldering techniques. After gaining some experience from the Learn to Solder Kit the student has three functional kits to build:

ELECTRONIC SIREN KIT - This kit produces the upward and downward wail of a “police siren” as you press and release a small pushbutton. Uses a small speaker. Size of PC board: 2” x 1.25”.

YES/NO DECISION MAKER KIT - Simply press the button on your decision maker kit and two brightly colored LEDs will begin to flash. As soon as you release the button, one of the LEDs will remain on. The green LED indicates yes and the red LED indicates no. Uses IC circuitry. Size of PC board: 2” x 1.25”.

LITTLE JITTERBUG ROBOT KIT - This kit uses a light sensor to come alive in darkness and scoot around with the help of a tiny vibrating motor. Customize its antennas and legs. Flashing LED allows you to find this little critter. Operates on a 3V CR2430 coin battery (included).
Supercapacitor Breadboard Racer Kit (Non-Soldering)

Our new Supercapacitor Breadboard Racer is easy to assemble and requires no soldering. It uses technology that is now being introduced into electric vehicles. After assembling your Racer simply “Charge It” from the battery powered charger and within a minute you are ready to race! Go Green with the optional C6581 - Solar Charger (Sold Separately) and use the Sun’s energy to quickly charge the Racer’s Supercapacitor.

Travels at a high rate of speed and has a flashing red LED to indicate charge condition. Uses a powerful Supercapacitor for its power source. Requires 2 “AA” batteries (not included). Skill Level 1.

Supercapacitor Breadboard Racer Kit (Non-Soldering).........C7411 - $19.95
This exciting breadboard lab requires no soldering or previous electronic experience. The lab enables any student to build 33 different electronic experiments and activities. It’s applicable for use in elementary grades up through college and is safe to use. The lab is meant to be used over and over again to save money. Not only is this lab complete with everything the student needs, but also the instruction booklet is designed so that the teacher does not need to be involved (unless he or she desires to be).

The student builds and studies the first 11 instructional circuits which include theory and data facts along with a simple pencil activity quiz. The remaining 22 experiments for the student are fun to build electronic circuits that have a parts list, schematic and parts placement drawing. These give the student an ample introduction to electronic components and circuitry.

Breadboard type kits have been around for years, however, this lab is the first to incorporate an introduction to Ohm’s law, electromagnet circuitry, motor circuitry, transistor circuitry, IC circuitry and 7 segment display circuitry all in one lab. There is now no need to have several different breadboard kits to learn basic electronic concepts. One lab covers almost all aspects of basic electronic concepts and components.

Not only does our 33 in 1 Deluxe Electronic Exploration Lab introduce various electronic educational concepts but it is also a fun and interesting motivational activity for your student. Complete with all electronic parts, breadboard and instruction booklet. Requires one 9V battery (not included). If the student has already built the 33 in 1 Deluxe Electronic Exploration Lab, you may wish to purchase our 35 in 1 Deluxe Digital Lab Exploration Kit shown on page 10 so that the student can gain digital electronics fundamentals.

C6709  $31.75

Learn Electronics with our 33 in 1 Deluxe Electronic Exploration Lab!
10 in 1
Solar Energy Exploration Lab

Our re-usable Solar Energy Exploration Lab requires no soldering or previous electronic experience. The lab enables any student to experiment with free electricity generated from the sun. Its applicable for use in elementary grades up through college and is safe and easy to use. The lab is meant to be used over and over again to save money. The lab is complete with an instruction booklet and is designed so that the teacher does not need to be involved (unless he or she desires to be). Utilizes a quality universal plug-in breadboard with high quality powerful solar panel, resistors, diode, motor with prop, electronic buzzer, flashing LED, super capacitor and wires. There’s nothing extra that you’ll need to use this lab and unlike other solar labs on the market, you will get more value from our product as it has many experiments that are unique to our 10 in 1 Solar Exploration Lab. Of course, you’ll get a prop experiment plus 9 more fun and educational experiments to challenge your students. In addition, you will receive detailed descriptions of the concepts that each experiment covers. We know you will like our Solar Energy Exploration Lab and will want to have one for everyone in your class. Listed below are the main experiments/activities that the student will perform.

10 in 1 Deluxe Solar Energy Exploration Lab Manual Contents:

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<th>Instructional Lessons &amp; Experiments</th>
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<td>7 Experiment 7</td>
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<td>8 Experiment 8</td>
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<tr>
<td>9 Experiment 9</td>
</tr>
<tr>
<td>10 Experiment 10</td>
</tr>
</tbody>
</table>

This Lab comes with a special glass Solar Panel that produces a useful amount of voltage and current so that it can be used to perform your own experiments!

Introduce your students to SOLAR ENERGY with our 10 in 1 Solar Energy Exploration Lab!

C6853 $34.95
21 in 1
Electronic Discovery Kit

This is the perfect lab for anyone interested in discovering basic electronic components and electronic circuitry.

This kit consists of a re-usable no solder breadboard and various electronic components including a buzzer, motor, capacitor, CDS cell, resistors and LEDs. Not only do you discover circuits that use these components, you’ll also make many fun functional projects.

This kit does not require any soldering and is self contained in a reclosable 5.75” x 2.5” x 2” plastic storage box with small booklet.

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C7089 $23.50

Explore Components and Build Fun Experiments using our 21 in 1 Electronic Discovery Kit!
The perfect lab to introduce students to Digital Electronics and Computer Technology!

This lab does not require soldering, is reusable, and contains 5 lessons and 30 meaningful and exciting digital experiments. The booklet is fully illustrated with easy-to-follow pictorial diagrams and schematics. It is designed so that the teacher does not need to be involved (unless he or she desires to be). It is applicable for use in junior high grades up through college. All experiments operate on one 9V battery (not included) so there are no dangerous voltages involved. Compared to other similar digital labs, you will find that this lab is far superior in that it contains a wider variety of digital components, including a double binary counter and two 7-segment displays, allowing the students to build “0 to 99” digital counters instead of only “0 to 9”. This lab also includes LEDs of three different colors (red, green, and yellow), and uses a uniform prewired breadboard system which is applied in each experiment, along with reverse polarity protection and a switch wire to prevent damage to the ICs or battery snap. This lab also covers more digital topics such as Boolean algebra, timing diagrams, frequency and duty cycle formulas, troubleshooting techniques. The lab includes a 96 page, fully illustrated manual, a large solderless breadboard, 6 integrated circuits, a CDS photocell, plus all other parts necessary to perform each experiment. Just supply a fresh 9V battery and nothing else is required to perform all the experiments in the book. The Complete 35 in 1 Deluxe Digital Exploration Lab is self-contained and ready to use!

C6721 $42.50

Optional Logic Probe: Although the 35 in 1 Deluxe Digital Lab includes a simple logic probe section built on the breadboard, you may wish to purchase the very inexpensive Chaney C6722 CMOS/TTL Logic Probe Kit. Although this is totally optional you will find that this logic probe is very useful to test and troubleshoot all kinds of digital circuits. (See Page 41).
Absolutely the best introduction to Radio Communications and Opto-Electronics.

**Build:**
- PA Systems with Microphone and Speakers
- AM Radio Receiver
- AM & FM Broadcast Stations
- Optical Receivers & Transmitters
- Infrared Communication Links
- Fiber Optic Communication Links
- IR Remote Control Transmitters and Receivers
- IR Proximity Detectors
...and Many More!

This lab was created with the student in mind. It will keep the hands and minds of the students busy building amazing communication experiments by using wire, fiber optics, radio waves, light and infrared links. No previous knowledge or experience is required.

Try it! We are sure you will be completely satisfied with this exciting and fun Chaney Communications Lab.

Introduce your students to the basics of various communication systems with this exciting and reusable Communications Training Lab.

**Lab includes:**
- Over 50 Electronic Components
- 2 Solderless Breadboards
- 64 Page, Fully Illustrated Manual
- A Tuner Board (Requires Soldering)

**C6763  $52.95**

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**44 in 1 Communications & Opto-Electronics Deluxe Exploration Lab Manual Contents:**

1. Introduction
2. Parts Inventory
3. Preactivity
4. Instructional Lessons & Experiments
5. Lesson 1 Electronic Communication
6. Experiment 1 Morse Code Generator
7. Experiment 2 1-Wire Telegraph System
8. Experiment 3 2-Wire PA System
9. Experiment 4 Coaxial Cable PA System
10. Lesson 2 Alternating Current (AC) Characteristics
11. Lesson 3 Radio Communication & Electromagnetic Waves
12. Lesson 4 Frequency Spectrum
13. Lesson 5 Wireless Lightwave Communication
14. Experiment 5 Opto Receiver
15. Experiment 6 Opto Transmitter
16. Experiment 7 Infrared Opto Transmitter
17. Experiment 8 Opto Voice Transmitter
18. Experiment 9 Infrared Opto Voice Transmitter
19. Experiment 10 Opto Music Transmitter
20. Experiment 11 Infrared Opto Music Transmitter
21. Lesson 6 Fiber Optics Communication
22. Experiment 12 Introduction to Fiber Optics
23. Experiment 13 Fiber Optics - Dual Color Transmission
24. Experiment 14 Fiber Optics - Multiple Fiber Transmission
25. Experiment 15 Fiber Optic Audio Link
26. Experiment 16 Infrared Fiber Optic Audio Link
27. Experiment 17 Infrared Remote Control Receiver
28. Experiment 18 Infrared Remote Control Transmitter
29. Experiment 19 Audible Infrared Remote Control Receiver
30. Experiment 20 Infrared Proximity Detector
31. Experiment 21 Audible Infrared Proximity Detector
32. Experiment 22 Infrared On/Off Remote Control Switch
33. Experiment 23 Simple Infrared Transmitter
34. Lesson 7 AM/FM Radio Communication
35. Experiment 24 Crystal Radio Receiver
36. Experiment 25 Basic AM Receiver
37. Experiment 26 AM Radio Receiver with Speaker
38. Experiment 27 AM Radio Receiver with Speaker and Volume Control
39. Experiment 28 AM Tone Transmitter
40. Experiment 29 AM Code Transmitter
41. Experiment 30 AM Broadcast Station
42. Experiment 31 AM Microphone Transmitter
43. Experiment 32 FM Tone Transmitter
44. Experiment 33 FM Code Transmitter
45. Experiment 34 FM Microphone Transmitter
Have you seen a house with a solar panel on the roof and wondered how it produces electricity? In response to increasingly high electricity costs and the overall well-being of our environment, advanced technologies in solar energy has made it possible for home owners and businesses to install Photovoltaic Solar Panels to convert sunlight to usable electricity and heat. With this in mind, we have designed this course for the inquisitive student that wants to gain an understanding of how different technologies using green or alternate energy can be used in the home.

In this course, we will create our own model house made of Plexiglass and install an amorphous silicon glass solar panel to simulate how we can harness the sun’s energy into one’s house. The solar panel that we will be using will provide the energy used for all of our experiments. We will perform most experiments with solar energy stored in a battery that has been charged from our solar panel along with a re-usable solderless breadboard.

The fully illustrated and detailed manual included in this course will introduce the student to some basic technology and fundamental concepts used in common household devices such as lighting, thermostats, fire alarms, and burglar alarms. In order to study these technologies, we are going to study solar panels, motors, fans, resistors, diodes, LEDs, switches, lamps and batteries. The easy-to-follow pictorial diagrams will guide the student through 26 chapters containing a variety of activities and useful experiments along with fun and interesting facts relating to solar energy.

This course offers a hand-on approach that is applicable for use in grades junior high up through college. All parts to create the model house, along with the necessary components, wires, breadboard, solar panel, and detailed instruction manual are included. No soldering or additional batteries required. Re-usable and safe to use. Skill Level 1.

54 in 1 Solar House “Green Energy” Lab Contents:

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<td>Additional Information</td>
<td>Battery Charging with solar Power</td>
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Deluxe Magnetism, Motors and DC Circuits Exploration Lab

This fun, interesting and reusable Exploration Lab is perfect for any beginning student in Science, Electricity/Electronics, or Physics. Not only does this lab introduce students to important concepts in magnetism, but also it introduces them to resistance, capacitance, diode action, LEDs, electromagnets, motors, switch operation, color code for resistors, series/parallel circuits, basic Ohm’s Law, current flow measurement and even electricity generation.

This breadboard lab requires no soldering and is battery operated for safety. This lab doesn’t require any previous experience or knowledge. The instructor does not need to be involved and the lab will amaze and provide interesting experiments to motivate your students. This lab can be used over and over again so it is very economical.

The 25 in 1 Deluxe Magnetism Lab covers some of the same concepts that are presented in our 33 in 1 Electronic Exploration Lab, however the 33 in 1 moves onto electronic concepts whereas this lab concentrates on electricity and magnetism concepts and goes into more depth in these areas. It’s best to have the students complete the 25 in 1 Deluxe Magnetism Lab first and then move on to the 33 in 1 Deluxe Electronic Exploration Lab if possible, although each lab can be used alone and neither lab requires any previous knowledge of electricity!

The Deluxe Magnetism Lab Instruction Manual features 25 exciting and fun to build learning experiments. Each experiment has an explanation, a hands-on lab that the student completes and a short quiz to help with the learning experience and reinforce important concepts.

Please look at the list of experiments on the right and you’ll discover that the 25 in 1 Deluxe Magnetism, Motors and DC Circuits Exploration Lab is the best introduction to electricity and magnetism, at an affordable price on the market today. Complete with all parts, universal breadboard and comprehensive Lab Manual. Requires 4 “C” batteries (not included), Skill Level 1.

Requires No Soldering & Can Be Used Over and Over
A Tremendous Educational Value!

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<td>6 Experiment 6 Resistors / Color Code</td>
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<td>7 Experiment 7 Light a LED</td>
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<td>8 Experiment 8 The Diode</td>
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<td>24 Experiment 24 Small Electricity Generator</td>
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<td>25 Experiment 25 Storage and Use of Electricity</td>
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</table>

25 Reusable Experiments

C6819 $27.50
Are you looking for a way to introduce your students to the exciting world of microcontrollers? Have you been overwhelmed with the difficulty of finding everything you need in one convenient package? Well look no further as we have developed a complete microcontroller introduction course. Our new 17 in 1 Deluxe Microcontroller Exploration Lab was developed as an introduction to microcontrollers and requires no previous knowledge of microcontrollers or programming languages.

This is the perfect hands-on lab that gives your students valuable practical experience as they build each experiment. All of the source code (written in C) is provided on a CD-ROM and each experiment has a hex file (the compiled source code) that can be programmed onto the microcontroller using a Microchip PICkit™3 programmer. The PICkit™3 programmer plugs into a USB port on your computer and allows you to program your microcontroller with a hex file (the compiled source code). The PICkit™3 programmer is included with the complete version of the kit and is necessary to program the microcontroller. Advanced users or students that are familiar with the C programming language will be able to follow the source code that was used to generate the hex file for each experiment.*

This lab requires no soldering as each experiment is built on a reusable solderless breadboard using the supplied electronic components. At the heart of this lab is a microcontroller circuit comprised of: the Microchip PIC18F2410 microcontroller, a crystal, a voltage regulator, and other components. This microcontroller plugs directly into the breadboard and controls all 17 experiments.

A printed instruction manual with detailed illustrations guides students through the lab. The instruction manual starts with an introduction to microcontrollers and gives an overview of what microcontrollers can do and how they are used in today’s modern digital circuits. Information on interfacing the PICkit™3 programmer with your computer is also included. From here, the student will begin to build the experiments. All experiments operate from one 9VDC battery (not included). Each experiment has a detailed theory of operation, a complete wiring diagram, the circuit schematic and a basic overview of the source code. Some of the exciting topics that are covered in this course are basic digital circuits, logic Levels, pull up resistors, sensors, LEDs and LED displays, binary and hexadecimal numbers, pulse width modulation (PWM), analog to digital conversion, stepper motors, LCD displays, and more. Please see the complete list of the experiments.

The 17 in 1 Deluxe Microcontroller Exploration Lab comes with all the parts, microcontroller, a breadboard, instruction manual and source code CD-ROM. Requires one PICkit™3 programmer (included with the C7043) and a Windows PC computer with available USB port for operation.

**NOTE:** This course was not developed to be a tutorial or instructional course for C programming. Advanced users may install Microchip’s MPLAB® IDE and MPLAB® C18 Compiler software (not included) for advanced use with the supplied source code.

17 in 1 Deluxe Microcontroller Lab Experiments:

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*NOTE: This course was not developed to be a tutorial or instructional course for C programming. Advanced users may install Microchip’s MPLAB® IDE and MPLAB® C18 Compiler software (not included) for advanced use with the supplied source code.*

**Includes:**
- PIC18F2410 Microcontroller
- High Quality Breadboard
- All necessary Electronic Components
- PICkit™3 Programmer (Included with the C7043
- Fully Illustrated Printed Instructional Manual
- Source Code CD-ROM

**Complete 17 in 1 Deluxe Microcontroller Lab Experiments:***

**Complete 17 in 1 Deluxe Microcontroller Lab WITH PICkit™3 Programmer**

| C7043 | $169.95 |

**Also Available without the Programmer**

**Complete 17 in 1 Deluxe Microcontroller Lab WITHOUT PICkit™3 Programmer**

| C8043 | $115.95 |
26 in 1
Robotics Experimenter Lab

Have you noticed how robots are becoming more and more a part of our lives? From practical robots to novelty robots, industrial applications to science fiction, robots are a part of our modern life. We designed this course to give students an introduction to what a robot is and how robots sense the world around us. This course is the perfect introduction to the exciting field of robotics because it offers a hands-on experience for your students as they build and experiment with different robots. For example, your students will be able to build a robot that "sees" in the dark and a robot that can sense a puddle of water all while learning about electronics and robotics. A complete list of the robots included with this lab is shown below.

A detailed Instruction Manual is included with this Lab that contains all of the information that your students will need to successfully complete the robot experiments. This lab features a detailed introduction of what a robot is and what robots do. After the introduction, the student will begin to build a basic robotic platform from which all of the other experiments will be based. The robots progress in complexity and each robot is fun to build and operate. Some of the topics covered include: Sensor Technology, Infrared (IR) Vision, Transistor Operation, Integrated Circuits, Relay Operation, Electronic Motors and basic electronic concepts including Ohm’s law and component identification.

This lab is completely reusable and designed with the student in mind. Each experiment has been thoroughly tested and developed to offer the maximum educational value. Each robot that the student will build comes with detailed instructions, illustrations, schematics, wiring guide and a theory of operation. All experiments/robots operate on one 9V battery (not included) and use the same robot chassis and relay control board. The relay control board and the optical eye sensor board require soldering for assembly (see C6907 below for a pre-soldered version). All of the necessary components and wires are supplied along with a re-usable solderless breadboard and detailed instruction manual. This lab will captivate and excite your students and is a tremendous educational value.

26 in 1 Robotics Experimenter Lab Manual Contents:

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Troubleshooting Information

Or the Same Lab and NO Soldering Needed!

Complete 26 in 1 Robotics Lab with pre-assembled and soldered Relay Control Board and Optical Eye Sensor Board. Exact same kit as above except we solder it for you so that there is absolutely no soldering needed for assembly.

C6907 $75.50

C6890 $59.95
Introduce your students to the fundamentals of robotics technology while building 28 different robots in one. The student starts by building a simple robot, and then disassembles it to progress to building more complex designs which are remote controlled with IR (infrared) vision and object avoidance. This lab is totally REUSABLE and will stimulate the student’s minds in robotic technology.

Try it! You will love it!

LAB INCLUDES:
• High Quality Breadboard
• 3 Wheels, 2 Motors, 2 Belts, and Various Mechanical Parts
• Attractive Smoked Plexiglass Base
• All Necessary Electronic Parts
• Fully Illustrated Instructional Manual
• Relay Board (requires soldering)

LEARN ABOUT:
Robot Motor Traction and Power System
Robotic Motion
Time Controlled Motion
Remote Controlled Motion
Robotic Vision (CDS & Infrared)
Sound Detection & Control
... and many more topics.

BUILD THE FOLLOWING ROBOTS:
Explorer I and II
The Unstoppable
The Independent Minded Robot
The Night Runner
The Day Runner
The IR (Eye) Robot
Obedient I (Remote Controlled Robot)
Obedient II (Remote Controlled Robot)
Robot Pet
Obstacle Avoiding Robot I
Obstacle Avoiding Robot II
Big Ears Robot
The Music Dancer Robot
... and many more.

C6762 $69.95

Each experiment is designed to progress in an easy-to-follow and logical manner. Each one explores both meaningful and interesting topics!

Experiment 13: The IR-Eye Robot (Assembled)
Surface Mount Technology Lab
Chaney Electronics would like to introduce you to the tiny world of SMT

This Chaney Training Lab will introduce your students to the latest assembly technology known as “Surface Mount Technology”. Surface mount technology uses tiny leadless components, known as surface mount devices (SMDs) which are quickly replacing standard electronic components. Currently most electronic equipment incorporates this exciting new technology.

By completing this lab, the student learns concepts about surface mount technology (SMT) such as the different types of surface mounts devices (SMDs), the various types of surface mount assemblies, the automated soldering methods, and all of the stages of the manual and automated assembly processes of surface mount circuits. The student gains experience identifying, soldering and using surface mount devices by physically building an actual working surface mount technology project.

This lab is the perfect introduction to SMT and does not require any previous knowledge of this topic. It was designed so that the teacher does not need to be involved (unless he or she desires to be). The lab is self-contained and reusable with the exception of the SMT project kit: “Deluxe SMD Learn to Solder Kit” (Stock # C6719) which may also be purchased separately. A small soldering iron with a fine point and some solder is all that is required to build the included kit.

Intro to SMT
Surface Mount Technology Lab

Perfect introduction for students to learn one of the latest component technologies!

C6725 $29.95
Now Touring

The Jam Man

Sure to be a Sold Out show! Jam Man and band are coming to rock your town. Uses a preprogrammed PIC16F88 microcontroller and a sensitive IC amplifier with an electret microphone to drive a 5X7 green LED matrix display. Jam Man is happy and sings along to the music. When it’s quiet for awhile he takes 5 (frowns and then goes to sleep) until he hears sound again, then he gets back on stage! Operates on one 9V battery (not included). Size of PC board 2.8” x 1.25”. Complete with all parts, PC board and instructions. Requires soldering. Skill Level 2.

Jam Man Kit............................................C6987      $29.25

Persistence Of Vision (POV) Kit

Create words that appear in mid air from 7 bright LEDs as the kit is waved. The POV kit uses a microcontroller that is easy to program with a simple built in pushbutton switch. Complete with all parts, programmed PIC16F88, PC board, and instructions. Operates from a 9V battery (not included). Requires soldering. Skill Level 2.

Persistence Of Vision (POV) Kit........C7029      $20.75

Rotating Persistence of Vision (POV) Message Kit

Create words that appear in a circle in mid air. This kit is similar to our C7029 POV kit, however you don’t wave it - just turn it on and the words appear in a circle. Uses a microcontroller that is easy to program with a simple built in pushbutton switch. Complete with all parts, programmed PIC16F88, motor, 2 PC boards, instructions, and 6” x 8” attractive base. Operates on two 9V batteries (not included). Skill Level 2.

Rotating POV Message Kit.............C7030      $28.50

MicroControlled Digital Clock Kit

Build your own Microcontrolled Digital LCD clock! This kit uses a programmed microcontroller to keep time and send data to a serial interfaced digital display. The LCD clock kit displays hours and minutes (12 hour format) on a 4 line LCD display. The clock digits are 7/8” tall and the second indicator blinks every second. A simple to use menu is controlled by two push button switches that allow you to set the hour and minute. Features an adjustable display contrast and a nice green back-light for the LCD display. The kit consists of a main chassis PC board and a separate LCD display PC board. Standoffs and front mount LCD display make a professional looking project and a great conversation piece. Size of each PC board is 3.75” x 2.5”. Depth of assembled clock is about 15/8”. This kit operates on an included AC power adapter (no battery required). Complete with all parts, PC boards and instructions. Requires soldering. Skill Level 2.

MicroControlled Digital Clock Kit.....................C7407      $26.25
**Learn to Solder Kit**

This unique flashing Robot will not only help you learn good soldering techniques but will also be the center of attention wherever it is placed! The eye LEDs, center LED, and both hand LEDs flash brightly for weeks continuously or for months when you turn it off at the end of the day. Consists of 2 circuit boards and various electronic parts that you solder to the boards. You first solder the non-functional components in to learn good soldering techniques, then you progress to the functional LEDs. Simple to build and can be customized to make unlimited variations (you can paint the boards before assembly, pose the arms and eyes, change the appearance of the antenna, etc.). The 3 1/2” tall x 7/8” wide Learn to Solder Robot uses one 9V battery (not included) which also allows it to stand on just about anything (keyboards, monitors, desks, books, etc.). Unique design incorporates the battery into the robot. Simple to build! Skill Level 1.

**Learn to Solder Kit**

Special kit designed for the student who has not had any experience with soldering. This kit has 30 components to solder to give the student ample soldering experience. The first 20 components to be soldered are used to gain soldering experience, but the last 10 components, when soldered in, make up a bright red and yellow alternating LED flasher! The LED flasher portion is built after the student has soldered in the 20 practice components, which include: capacitors, a transistor, resistors, and an IC socket. When the student has completed this kit, he/she should have developed good soldering techniques and has a functioning LED flasher to show for his/her efforts. This kit requires one 9V battery (not included). Size of board: 4.75” x 3”. Complete with all parts (including practice parts for soldering) and complete soldering instructions. Skill Level 1.

**Learn to Solder Rocket Kit**

This special kit is the perfect kit to introduce students to good soldering techniques. When completed, the 4” tall rocket flashes 13 bright red LEDs and will stand upright on a desk or shelf. The student learns to solder by following the detailed instructions showing how to solder the 22 practice components. These include cable, capacitors, diodes, resistors, and transistors. With the knowledge and skills obtained from soldering the practice components, the student then finishes the rocket by installing the 13 bright LEDs that flash when a 9V battery is connected (battery not included). Size of rocket PC board is 4 3/8” tall x 1 1/4” wide. Complete with all parts, PC board and instructions. Skill Level 1.

**Universal Learn to Solder Kit**

Here’s the perfect kit to give students experience in learning soldering techniques for both standard and SMD components. The student begins by soldering various standard lead components such as transistors, capacitors and an IC socket. The student then progresses to SMD sections (on the reverse side of board) where the student practices soldering various SMD parts such as transistors, diodes, resistors, capacitors and an IC. Finally, the student builds a functional Insanity Alarm Kit (see description on page 28) which is constructed using both regular and SMD components so that some parts are on each side of the board. The Insanity Alarm operates on one 9V battery (not included). Size of PC board: 2 1/2” sq. Kit is supplied with 33 parts, PC board and instructions. Skill Level 1.
**Deluxe SMD Learn to Solder Kit**

This special kit is similar to the regular “Learn To Solder Kit” shown on page 19, however, this kit has some very unique features. Not only does it have a special non-functioning “Learn To Solder” section, it also has two additional kits on one circuit board. You get a bright yellow and red “Jewel” LED Flasher Kit and also an Insanity type Alarm Kit. The deluxe learn to solder kit uses a specially designed circuit board that allows you to build all three kits. After construction and testing, you simply snap the main circuit board into the 3 separate individual kits.

1. The Learn to Solder middle section is constructed first to give your student ample soldering experience.
2. Next, the student constructs the Insanity type Alarm Kit section. This unique kit is equivalent in operation to our most popular selling Insanity Alarm Kit (see page 28). It emits a piercing tone when the lights go out, but stays perfectly silent when they turn on the lights to look for it.
3. Finally, the student completes the more complicated “Jewel” LED Flasher Kit section. This IC circuit kit alternately flashes 4 bright red LEDs with one bright yellow LED.

This unique kit is more challenging to build and is the perfect “wrap up” to test the student’s skills in making kits.

Remember, you get all three kits listed with all parts and PC board. Requires two 9V batteries (not included), one for each functional kit. Overall size of circuit board before snapping it apart is 5.5” x 1.75”. Order this unique kit now for a complete solution to your kit building needs! Skill Level 2.

**Learn to Solder 9V Battery Tester Kit**

This is the perfect learn to solder kit! Not only does it give the first year student ample soldering experience with 22 practice components, it allows the student to create a very useful 9VDC battery analyzer/tester. Accurate and handy to have around, the tester lights up 2 LEDs to indicate whether the battery is in new/fresh condition, has some life left (about 7.5V to 8V) or is dead (under 7V). Size of PC board 1.9” x 3.4”. Complete with all parts (including practice parts for soldering) and complete soldering instructions. Skill Level 1.

**Ultimate Learn to Solder Kit**

The Ultimate Learn to Solder Kit provides a perfect way to become proficient in soldering. Comes with 3 resistors, 6 disc capacitors, 13 integrated circuits and a pre-drilled glass epoxy PC board custom made for these parts. You start with the 3 resistors, progress to the 6 disc capacitors and then “hone” your skills by soldering the 13 integrated circuits in. Instructions that come with the kit present illustrations of correct techniques and solder joints. The kit is non-functional but provides one of the best platforms to obtain good soldering techniques. PC board size is 2” x 3”. Skill Level 1.

**Electric Slider Learn to Solder Robot**

Stand up Electric Slider Learn to Solder Robot not only allows students to learn good soldering techniques, but also provides them with a bright colorful sliding, scooting robot. Operates on one 9V battery (not included) and uses 2 powerful motors and a one IC circuit to move in a weird pattern on any smooth surface. Features colorful flashing LEDs which make this kit a real attention getting project. Overall size of PC board is 1.8” x 4”. Complete with all parts, PC board and instructions. Skill Level 1.
Complete Introduction to Kit Building

This super package helps your student succeed in building electronic kits because it contains everything your student needs to get started. This is an amazing value and it provides an easy way to get started in the “Fun of Kit Building”. Skill Level 1.

Learn to Solder Kit

Non-functional PC board and components that the students build to learn how to solder.

“Blinder” LED Flasher Kit

(see C6891 on page 33 of this catalog)
Creates brilliant flashes of orange/red light!

C6891 kit requires one 9V battery to operate (not included).

Complete Introduction to Kit Building .....................................................C6898       $35.95

“Customizeable” Colorful Brilliant Blinker Kit

This small easy to build electronic kit uses a special 2 transistor multivibrator circuit to alternately flash two brilliant clear lens LEDs. To make this kit customizeable we give you 2 red LEDs, 1 green LED, 1 yellow LED and 1 blue LED so that you can make the color combination of your choice. Operates from one 9V battery (not included). Size of PC board 1 1/4” x 1 3/8”. Complete with all parts (including the 6 brilliant color LEDs), PC board and instructions. Skill Level 1.

Note: Bulk package comes with an assorted bag of 50 colorful LEDs containing 10 each of Red, Green, Yellow, Blue and White.

“Customizeable” Colorful Brilliant Blinker Kit.........................................C6958       $5.50

Bulk Colorful Brilliant Blinker Kit (Package of 25)...............................C6944   $120.00

The RoboNote Kit

Before running out the door, check your RoboNote for any important messages. Need a reminder to bring your lunch, pack your science project or that it’s test day? Now your reminder notes won’t go unnoticed with the help of the flashing activated RoboNote. The RoboNote uses two large and bright 10mm LEDs that alternately flash by using a 555 IC configured as a multi-vibrator. As soon as you read your note, you can remove it from its clip and switch it off to put the RoboNote to rest. Perfect for beginner student as it has 34 practice parts (besides all the active parts) to solder throughout the design of the robot’s base and body. Operates on a 9V battery (not included).

Uses 2 PC boards. Size of base PC board: 3.25” x 3.25” and size of body PC board 1.25” x 3”. Complete with all parts, PC boards and instructions. Skill Level 1.

The RoboNote Kit.......................................................................................C7098       $11.50

3 in 1 Non-Soldering Sportscar Racer Kit

This exciting and reusable kit requires no soldering, yet provides a great introduction to motors, transistors, and electronic circuitry. Powered by one 9V battery (not included), this 3 in 1 Non-Soldering Sportscar Racer Kit includes all electronic components to build 3 different Sportscar Racers. Has a bright red LED, powerful motor, Darlington transistors, CDS cell, resistors, wires and re-usable breadboard. Easy to understand instructions with theory of operation makes this a great first kit for beginners! The color of the breadboard may vary. Skill Level 1.

3 in 1 Non-Soldering Sportscar Racer Kit..........................C7410      $14.25

Sportscar Racer #1
The first racer has a simple Darlington transistors circuit that when completed, allows you to just turn the switch “on” and watch it race away!

Sportscar Racer #2
The second racer uses a CDS cell configured to “turn on” the racer when its dark. To use this racer, just turn the on/off switch to “on” and set it on the floor. As soon as you turn the room lights off, this racer will start moving.

Sportscar Racer #3
The third racer is the opposite of the second racer. After building it you set it on the floor in a dark room and turn the on/off switch “on”. Nothing happens until you turn the room lights on, then the racer takes off!

3 in 1 Non-Soldering Sportscar Racer Kit..........................C7410      $14.25

Samurai Koji Kit

Samurai Koji’s, (pronounced KOH jee) meaning “Abundance and two”, expression is constantly changing to keep his friends from guessing his true mood. One second he’s happy, and then he’s not. Fun kit to build that requires many soldering connections to create the green LED happy/smiley face and the red LED upset/sad expression. This circuit uses a 555 IC to alternately flash the two groups of bright LEDs. Operates from one 9V battery (not included). Size of PC board is 3” x 4”. Complete with all parts and PC board. Requires soldering. Skill Level 1.

Samurai Koji Kit..........C7074      $10.95
**The Light Spider Robot II Kit**

Our new and improved Light Spider Robot II Kit can now be used with any LED or Incandescent Flashlight! Using its electronic brain to find or follow a light source, this amazing robot quickly scoots across any smooth, hard surface (such as a linoleum floor or a wooden table top). While searching for light, one colorful and bright flashing rainbow LED lights up and blinks on the front of the robot. Operates from one 9V battery (not included) and uses a transistor brain to control its 2 motors. The PC board and motors can be customized by painting them before assembly. Size of PC board is approximately 3.50” x 2.25”. Comes complete with all parts, PC board & instructions. Skill Level 2.

The Light Spider Robot II Kit .......................................................... C7049 $14.95

**Little Jitterbug Robot Kit**

Better not leave any popcorn or chips around! This little jitterbug robot is waiting for night, or when it’s completely dark, to roam the countertops in search of goodies. The light sensor allows the jitterbug to come alive and scoot around with the help of a tiny vibrating motor. Customize its antennas and legs. Flashing LED allows you to find this little critter. Operates on a 3V coin battery (included). Size of PC board 1.8” x 0.9”. Complete with parts, battery, PC board and instructions. Soldering required. Skill Level 1.

Little Jitterbug Robot Kit .............................................................. C6984 $7.15

**IR Vision Rover Robot Kit**

This incredible robot can actually see! As it explores, it emits invisible beams of IR (infrared) light which reflects off any obstacles in its path, including walls, rocks, humans, boxes, etc. Its simple brain and sensor causes the IR Vision Rover Robot to turn backwards and then go forward in a different direction avoiding the obstacle it has detected up to one foot away. It can even be remotely controlled from up to 25 feet away by using any standard DVD/TV IR remote control that you have. Simply point and press almost any button on your remote and you will notice that your IR Vision Rover Robot will immediately back up and then go forward in a different direction. The Rover emits beeps and blinks bright colorful LEDs as it explores. Operates from only two AA batteries (not included). Features DC-DC converter circuitry, sensitive IR sensor module, 2 IR LEDs, 9 colorful LEDs, 2 powerful motors and reliable drive train. It’s a fun kit to build, and an excellent introduction to robotics for your student. Size about 5 1/2” x 6 1/2”. Works on any smooth hard surface. Complete with all parts, PC board and instructions. Skill Level 2.

IR Vision Rover Robot Kit .............................................................. C6761 $39.95

**Aqualocator Robot Kit**

Here is a robot kit that senses water! This triangular shaped Aqualocator Robot kit roams around in a crazed zig zag pattern while two rainbow flashing LEDs continuously flash until your robot detects water. When your robot comes upon water, the two prongs underneath the robot causes its transistorized brain to light up an incandescent lamp and your robot to STOP. Features 2 Darlington transistors, 1 SCR and 2 motors. Works on any smooth floor or surface. Operates from one 9V battery (not included). Size of PC board is 3.6” x 3.6” x 3”. Complete with all parts, PC board and instructions. Skill Level 2.

Aqualocator Robot Kit ................................................................. C7409 $14.25
The Unstoppable Bug Robot (TUBR) is really a bug with an attitude and an electronic brain. It just can’t be stopped! If you put a box, object, or there is a wall in front of the bug it has a powerful infrared detecting system that “senses” the obstacle and causes its simple brain to change direction. Features 2 motors, a bright red eye, a transistor/relay brain and 2 built in rechargeable batteries. Black plastic bug body is about 3 3/4” long x 1” wide (excluding arms which have small motors attached). Operates on any smooth surface such as a table, floor, desk, etc., when quick charged from a 9V battery (not included). Complete with all parts, PC board, bug body, motors and instructions. Skill Level 2.

The Unstoppable Bug Robot Kit.................................C6902 $22.25

Chrome Dome is a fascinating robot! It can follow a black line (use black tape or a black marker) on a light surface. Not only does it reliably follow the unique “line track” that you lay out for it but it also does it with style. Features colorful brilliant blue and yellow LEDs that flash back and forth as each motor is activated. Operates from one 9V battery (not included) and is about 3” square excluding the “Chrome Dome” top. This robot features 4 separate adjustable controls to allow fine tuning of “Chrome Dome’s” line tracing abilities. Fascinating to watch, fun to build and operate. Complete with all parts, PC Board, Chrome Dome and Instructions. Skill Level 2.

Chrome Dome Line Tracing Robot Kit.............................C6900 $28.95

This quick and zippy little robot zooms and turns along smooth hard surfaces while flashing its colorful “headlights”. The “Speedster 500” robot operates from two tiny electronic brains that consist of flashing rainbow LEDs. Each time one of the LEDs flash, it causes the robot to turn in a different direction. Operates from one 9V battery (not included). Size of board is 2.7” x 2”. Complete with all parts. Requires soldering. Skill Level 1.

“Speedster 500” Robot Kit...........................................C7048 $16.50

The Racing Robot Learn to Solder Kit features a three wheel motorized chassis and a colorful robot face that flashes on and off as the robot races out of control. Race this robot against others to see which robot is the fastest. Kit features 18 components that you install first to learn good soldering techniques. Once you have mastered soldering, you then install the one IC circuitry. Face circuit, motor and mechanical assembly. Operates from one 9V battery (not included). Size of Face PC board about 1.5” x 2”. Size of main chassis PC board 2” x 4”. Complete with all parts, PC boards, motor and instructions. Skill Level 1.

Racing Robot Learn to Solder Kit.................................C6927 $15.95

Order this package of 10 “Chrome Dome” Robots at a discount and receive one roll of 1/2” wide 100ft. long black electrical tape for free to use in making your line track. You get a package of 10 plus a Free Roll of Tape for the price shown. This is a $294.50 Value!

Special “Chrome Dome” Classroom Package....................C6901 $279.50

The Racing Robot Learn to Solder Kit.................................C6927 $15.95
**Infrared Target Kit**

Exhilarating Infrared Target Kit flashes a red diamond every time it gets hit by an infrared beam. Unlike other targets, this target works with all infrared guns currently available. Super sensitive target is perfect for practice or tag games. Features sensitive sensor, transistor, and IC circuitry with sensitivity control. Works in daylight or darkness. Use it with the Infrared Transmitter Kit above if you do not already own an infrared gun. Size of board: 4“ x 2”. Operates from one 9V battery (not included). Complete with all parts, 2 hypnotic wheels, PC board & instructions. Also works with our C6393 Infrared Transmitter Kit. Skill Level 2.

**IR Control Spinner Kit**

Your classroom will be mesmerized with the dizzying effects of their IR Control Spinner Kit. Uses a motor and a sensitive IR module to allow it to operate with any brand or type of IR remote control (not included). Operates from one 9V battery (not included). Size of board: 3-1/8“ x 1-1/4”. Complete with all parts, 2 hypnotic wheels, PC board & instructions. Also works with our C6393 Infrared Transmitter Kit. Skill Level 1.

**Remote Controlled Nightlight Kit**

Now you never have to worry about entering a dark room. Simply aim any IR remote (that you already own) at this simple kit and 2 laser like brilliant LEDs light up and stay on for about 5 minutes. This gives you ample time to walk out of the room or hallway or to find and turn on the light switch for that room. Our Remote Controlled Nightlight Kit uses one 9V battery (not included) and will work with any DVD, TV, Stereo etc. IR remote up to 15 ft. away. Uses sensitive IR detection module and Darlington circuitry. Size of PC board: 1-7/8“ x 1-1/8”. Complete with all parts, PC board and instructions. Skill Level 1.

**Infrared Transmitter Kit**

The Infrared Transmitter Kit shoots a high power infrared pulse beam each time the button is depressed. Make your own “phasor blaster” for infrared tag games, target practice, etc. Small size board (only 2.9“ x 1”) allows you to design a custom looking “phasor gun” to mount unit in. Can activate Infrared Target Kit (below) up to 50 ft. away (much further ranges can be obtained if you add a lens in front of the infrared LED). Note: although the target will work with any gun, this Infrared Transmitter Kit will work only with the below Infrared Target Kit. Operates from one 9V (battery not included). Complete with all parts, PC board and instructions. Skill Level 2.

**Laser Target Kit**

Here’s a kit that provides a fun use for your laser pointer. Aim your pointer at the small “CDS Bull’s-eye” and if you strike it, you will see a bright red star (made from 8 LEDs). The kit features a red LED aiming spot that can be switched on at night for target practice. The target can also be used inside during daylight hours as it has a control to adjust for ambient room light. The range of use is only limited by the range of your laser pointer. Create contests and sharpen your skills with this fun kit. Operates from one 9V battery (not included). Size of board: 2 1/2“ x 2”. Complete with all parts, PC board & instructions. Skill Level 1.
Battery Operated Blacklight Kit

Here's an unusual kit that is just the thing for finding fluorescent minerals, detecting insects that glow under black lights, reading invisible fluorescent inks, etc. Completely portable kit comes with an unfiltered large U shaped black light tube and efficient solid state drive circuitry. Features control to vary the brightness and lightweight portable design. Size of board: 7" x 1.8". Operates from 6VDC (battery not included). Complete with all parts, PC board and instructions. Skill Level 1.

Battery Operated Blacklight Kit..................................................C6889 $13.25

Unfiltered Blacklight Strobe Kit

Light up blacklight inks and posters with this unique Unfiltered Blacklight Strobe Kit (great for Halloween effects). Uses 3 large (10mm) UV LEDs that flash at a rate adjustable from about 80 up to 300 flashes per minute. In a darkened room the output is amazing. Operates from one 9V battery (not included) and features an IC circuit with "on board" adjustable speed control. Size of PC board: 3 3/8" x 2 5/8". Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 2.

Unfiltered Blacklight Strobe Kit..................................................C6973 $12.95

Solar “Woodpecker” Noise Kit

The Solar “Woodpecker” Noise Kit is for outdoor use and produces a very loud clicking sound, like a woodpecker’s peck, when sunlight strikes the kit’s solar panel. You can be sure that everyone will be scrambling around trying to silence this kit since it will continuously sound off unless it’s found and covered, or the sun goes down. Size of PC board: 1” x 3.6”. Size of solar panel: 1” x 3.8”. Complete with PC board, solar panel, all parts, and instructions. Requires soldering. No battery required. Skill Level 1.

Solar “Woodpecker” Noise Kit..................................................C7032 $13.50

Super Siren Kit

When you need a real irritating siren, you need the Super Siren Kit. It features one special IC that contains 3 separate transistors and a high gain power amp. Great for getting everyone’s attention in the classroom! Siren sound is the pulsating automatic electronic type and features 2 separate sound adjustments. Size of board: 2.5” x 2.75”. Operates from one 9V battery (not included). Complete with all parts, speaker, PC board & instructions. Skill Level 2.

Super Siren Kit..........................................................C6474 $11.25

8 Note Tunable Electronic Organ Kit

Tunable 8 note organ features IC oscillator and Darlington transistor output stage to provide clear loud tones. Play simple compositions, favorite tunes, etc. Uses reliable push-button switches for continuous trouble-free performance. Each note is fully tunable with on board trimmer controls. Operates from 3V to 9VDC. Size of board: 2” x 5”. Operates from 6VDC (battery not included). Complete with all parts, PC board and instructions. Skill Level 1.

8 Note Tunable Electronic Organ Kit...........................................C4736 $11.95

Light Sensitive Sound Generator Kit

Simple to build kit creates a tone which varies depending on the amount of light you allow to strike on a CDS cell. Kit features IC circuitry and small speaker to create this unusual effect. In total darkness the unit emits clicks or is silent; as light increases the kit emits clicking sounds then with more light a continuous tone. Operates from 9V battery (not included). Size of board: 1 1/4” x 1”. Complete with all parts, PC board and instructions. Skill Level 1.

Light Sensitive Sound Generator Kit...........................................C4164 $6.25
SOUND EFFECTS KITS

**Chirp Chirp Kit**

When you are in the mood for some disturbing, irritating chirping sounds, this kit will meet your needs. Not only does it produce a sharp chirping racket, but it also flashes a bright LED along with the noise. Operates on one 9V battery (not included). Size of PC board 2” x 1.25”. Complete with all parts, PC board and instruction. Skill Level 1.

**Sci-Fi Sound Effects “Theremin”**

Produce all kinds of weird sound effects with this small simple to build kit. Utilize 2 light sensors: one controls the frequency and the other modulates (varies) the sound. Simple one IC circuit with built in speaker and an RCA jack so you can send the sound to your amplifier if desired. Simply use your hands to produce some of the strangest, spookiest sounds you'll ever want to hear! Operates from one 9V battery (not included). Size of PC board 3 1/2” x 1 1/4”. Complete with all parts, PC board and instructions. Skill Level 1.

**10 Note Sound Synthesizer Kit**

Very unique synthesizer features 10 adjustable notes, variable pitch, variable speed, flashing LED and individual or flowing notes. Make “robot” sounds, space war, computer effects, etc. One of our most unusual kits! Circuit features three ICs and 12 trimmer resistors. Size of board: 2 13/16” x 4”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 2.

**120VAC Sound Activated 3 Channel Color Organ Kit**

This exciting kit causes lights of your choice (up to 200 watts per channel/600 watts total) to flash to the beat and the frequency of the music without any connection to your amplifier, stereo, radio, etc. Simply plug in any lights of your choice to the 3 AC outlets provided. Features 3 separate filters with each channel having its own “on board” response control so that you can adjust each channel for desired response. This deluxe kit has a speaker microphone driving a high gain IC/SCR circuit. Operates from standard 120VAC. Size of board: 6.2” x 3.4”. Complete with all parts, PC board and instructions. No case available. Skill Level 2.

**120VAC 3 Channel Color Organ Kit**

Very popular 3 channel color organ causes lights of your choice (up to 200 watts per channel) to flash to the beat and frequency of the music. Simply connect the color organ to your stereo speaker. Has input transformer to isolate color organ from stereo and has 3 different signal filtering stages for low, medium and high notes. Kit features Level control and 3 separate AC outlets to connect Christmas lights, lamps, etc. Operates from standard 120VAC. Size of board: 3” x 5”. Complete with all parts, PC board and instructions. Skill Level 2.

**Our Most Sensitive Sound Activated 2 Ch Color Organ Kit**

This is our most sensitive sound activated 2 channel color organ kit. It uses a built in microphone and is perfect for use in haunted houses, Halloween displays, Christmas displays and more. Has two outlets to plug in any incandescent lamp (up to 200 Watts). Complete with PC board and all electronic parts, however, we do not have a case available. Operates on 120VAC. Requires soldering and you should have AC safety knowledge before using. Size of PC board is 2.7” square. Skill Level 2.

**120VAC Sound Activated 3 Channel Color Organ Kit**

This exciting kit causes lights of your choice (up to 200 watts per channel/600 watts total) to flash to the beat and the frequency of the music without any connection to your amplifier, stereo, radio, etc. Simply plug in any lights of your choice to the 3 AC outlets provided. Features 3 separate filters with each channel having its own “on board” response control so that you can adjust each channel for desired response. This deluxe kit has a speaker microphone driving a high gain IC/SCR circuit. Operates from standard 120VAC. Size of board: 6.2” x 3.4”. Complete with all parts, PC board and instructions. No case available. Skill Level 2.
Exploding Star Color Organ Kit

This spectacular color organ kit will amaze and thrill anyone who has the pleasure of seeing it in action. Very colorful, bright and highly animated exploding star effect is controlled by the beat of the music and a 2 IC circuit. The display is like a firework that is in sync with your music. No connection to your sound source is necessary as it uses an ultra-sensitive electret microphone to pick up the sound. Kit uses blinding output LEDS in red, green and yellow colors (25 total), 6 transistors and 2 ICs. Operates on one 9V battery (not included). Size of PC board is 5 1/16" x 3". Complete with all parts, PC board and instructions. Be the first in your class to own this amazing electronic display and everyone else will want to borrow it for their next party! Skill Level 3.

Exploding Star Color Organ Kit..........................C6818 $19.95

OPTIONAL PLASTIC TYPE 5 BOX C6367 $4.60

Shimmering Color Organ Kit

Exciting portable color organ provides a colorful display in response to music. Display shimmers and flashes to your music without any connections. The kit uses 6 jumbo red LEDs and 6 jumbo yellow LEDs with a sensitive amplifier IC. No connection to your stereo is needed as the Shimmering Color Organ Kit uses a crystal microphone to pick up the sounds of your music! Take your color organ with you anywhere, as it requires only one 9V battery (not included) to operate. Size of board: 2 3/4" x 3 1/8". Complete with all parts, PC board and instructions. Skill Level 2.

Shimmering Color Organ Kit..............................C6446 $10.70

OPTIONAL PLASTIC TYPE 4 BOX C6366 $4.25

Bright Star Color Organ Kit

This small super sensitive color organ kit features 5 bright LEDs that flash to the beat of the music. Circuit features a miniature electret microphone and a high gain 3 transistor circuit so no connections to your stereo are needed! Simply place the kit in the general vicinity of your speakers, adjust the gain control and you are ready for bright Star flashes of light as your music plays. Operates on one 9V battery (not included). Size of PC board is 1 13/16" square. Complete with all parts, PC board and instructions. Skill Level 1.

Bright Star Color Organ Kit...............................C6815 $8.95

OPTIONAL PLASTIC TYPE 2 BOX C6364 $2.90

Binary Counter (Logic Basics) Kit

One of the most basic building blocks of electronic computers is the binary number system. This kit counts in binary numbers and displays the binary number by red LEDs. A LED turned on is a 1 and off is a 0. This kit provides an easy to understand display of the binary number. The counter increases by 1 number each time the button is pushed. It also can count automatically by holding the button down. Teaches logic principles and binary counting. This kit features 7 red LEDs, count button, clear button and a 2 IC circuit. Counts from 0 up to 127 in binary numbers. Can be used alone or can be connected to the Decimal Display Kit below which displays the decimal number equivalent of the binary number. Operates from one 9V battery (not included). Size of circuit board: 3.6" x 3". Complete with all parts, PC board and instructions. Skill Level 3.

Binary Counter (Logic Basics) Kit........................C6359 $14.25

OPTIONAL PLASTIC TYPE 5 BOX C6367 $4.60

Decimal Display Kit

The Decimal Display Kit counts and displays decimal numbers from 0 to 99. Its primary function is to be connected to the Binary Counter Kit above to display the decimal number equivalent of the binary number shown on the Binary Counter Kit. Can also be used in conjunction with several of our kits to provide “next number to be served display”, people counter, lap timer, event counter, etc. Features IC circuitry and two bright 7 segment LED displays. Operates from one 9V battery (not included). Size of board: 3" x 3.25". Complete with all parts, PC board and instructions. Skill Level 3.

Decimal Display Kit.................................C6360 $15.25

OPTIONAL PLASTIC TYPE 5 BOX C6367 $4.60

Electro Spinner Kit

This amazing kit features a brilliant neon like rainbow of spinning colors. The Electro Spinner Kit uses two special rainbow flashing LED's, a motor and a special electronic circuit to produce attractive and stunning ever changing rings of neon like colors. The Electro Spinner automatically turns on when it is in the dark and spins for almost an hour before needing to be recharged. Kit includes all parts, PC board, motor, rechargeable battery, charger and CD base. Overall size of PC board is about 2" square. Skill Level 2.

Electro Spinner Kit.................................C6936 $17.50

OPTIONAL PLASTIC TYPE 5 BOX C6367 $4.60
**Secret Alarm Kit**

This is the perfect device to scare off someone who opens your desk, dresser, file cabinet, lunch box, etc. Simply turn the arming switch to the on position. You have a couple of seconds to put your Secret Alarm in a desk and close the drawer. The next time someone opens it, a loud obnoxious noise comes from the horn until unit is reset. Uses sensitive CDS and SCR circuit to respond to light. As long as it is kept in the dark it is quiet, but when light hits the sensor, WATCH OUT! Size of board: 3.75” x 2.25”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 1.

*Secret Alarm Kit* .......................................................... $6.50

**Professional Burglar Alarm Kit**

This useful kit includes all the features you would expect from a professional burglar alarm. It uses an IC circuit and has an exit time delay to allow you to leave your home before the unit is armed, an entrance delay to allow you to disarm the unit when you return home, an automatic horn cutoff after a period of time, an automatic reset circuit, and of course, N.O. and N.C. loops to allow you to use your choice of optional sensor switches, such as reed switches, snap action switches, etc. Operates from two 9V batteries (not included). Comes with 9V horn alert, but if you wish, you can activate your own horn alarm if you have one. Size of PC board: 3 1/4” x 2 5/8”. Complete with all parts (except sensor switches), PC board and instructions. Skill Level 2.

*Professional Burglar Alarm Kit* .............................................. $9.50

**Burglar Alarm Kit**

Universal type burglar alarm kit has on board horn and red LED “ON” indicator. Can be used with either normally closed and/or normally open loops. This allows you to use reed switches, foil, lever switches, mat switches or just about any type and quantity of switches (switches not included). With the ability to use N.C. and N.O. switches many areas can be protected by this one kit. Operates from 9VDC (battery not included). Size of board: 3.6” x 2.5”. Skill Level 1.

*Burglar Alarm Kit* .......................................................... $9.50

**Window/Door Burglar Alarm Kit**

This kit makes a great burglar alarm for your home. Whenever anyone attempts to open your window, this kit produces a loud pulsating electronic sound from the built in piezo speaker and it also flashes a bright red LED. The sound won’t stop, even if the window is closed again. Only you can shut it off. The kit will protect a window or door. It is very simple to install as only a small magnet (included) needs to be attached (glued) to the movable window or door. Uses IC, SCR and transistor circuitry. Operates on a 9V battery (not included). Size of PC board: 2 1/8” x 3 7/8”. Complete with all parts, PC board, reed switch, magnet and instructions. Skill Level 2.

*Window/Door Burglar Alarm Kit* ............................................. $10.75

**Insanity Alarm Kit**

Set this kit in an inconspicuous place with light shining on it and it remains perfectly silent, however, as soon as the light is turned off the kit emits a high pitched irritating tone! When they turn the light on again to look for the culprit it keeps silent again! Easy to build and loads of fun to use. Operates from one 9V battery (not included). Size of board: 2.9” x 1.8”. Complete with all parts, PC board and instructions. Skill Level 1.

*Insanity Alarm Kit* .......................................................... $6.50
Manual Siren Kit
This kit produces upward and downward wail of a “police siren” as a push-button is depressed then released. Good for sound effects, parties, etc. Kit is small in size but produces a loud tone from a small speaker. Kit features transistor and IC circuitry which operates from one 9V battery (not included). Size of PC board: 2 3/4” x 2”. Complete with all parts, PC board and instructions. Skill Level 1.

Manual Siren Kit........................................................................C6382 $7.95

Gotta Glow Kit
This amazing kit produces beautiful glowing color shapes that are mesmerizing and soothing. Colors are produced by ultra-bright Blue, White and Red LEDs. IC circuitry causes the patterns to appear and then fade away as the color changes. Features variable color fade rate control and comes with a 3” x 4” white opaque panel (you must provide a box or mounting arrangement for the panel as only the panel is included with the electronic kit). By experimenting with the angle and distance between the opaque panel and LEDs, you can create some stunning visual effects. Operates from one 9V battery (not included). Size of PC board: 3” x 4”. Complete with all parts, PC board, opaque panel, and instructions. Skill Level 2.

Gotta Glow Kit..............................................................................C6915 $11.95

Hypnotic Bars Kit
This unusual kit consists of 10 bright green LED bars which shimmer or flash for a hypnotic looking display. Kit features 1 IC circuit with a “Bar Effect” control to adjust the back and forth flashing for the optimum unique shimmering display. Although the kit won’t hypnotize you it really has a unique attention getting display of bright green bars. Operates from one 9V battery (not included). Size of PC board: 2” x 1 1/2”. Complete with all parts, PC board and instructions. Skill Level 2.

Hypnotic Bars Kit............................................................................C6772 $7.25

One IC Speaker Radio Kit
You will be amazed with the performance of this little radio receiver. It operates based on a sophisticated radio IC and has a powerful antenna coil with a high-grade ferrite core so no external antenna is needed. It includes a volume control and a two transistor audio amplifier with a power transistor to drive the speaker. Easy to build and to operate, as no alignment is necessary. A great project to take home and be proud of! Approximate size of board: 3 1/2” x 2 1/4”. Operates from a standard 9V battery (not included). Complete with all parts, PC board, and instructions. Skill Level 1.

One IC Speaker Radio Kit..........................................................C6749 $15.25

Adjustable Flashing Bright Light LED Kit
Small size Adjustable Flashing Bright Light LED Kit alternately flashes 2 groups of 4 LEDs. The first group consists of 2 green and 2 yellow LEDs and the second group consists of 1 green, 2 yellow and 1 orange LED. The 2.2” x 0.75” kit also uses a one IC circuit with a trimmer control to adjust the speed of flashing. Operates on one 9V battery (not included). Great attention getter! Complete with all parts, PC board and instructions. Skill Level 2.

Adjustable Flashing Bright Light LED Kit............................C7019 $5.25

3D Shimmering Pyramid Kit
Giant 3D pyramid shimmers mysteriously to delight and amaze everyone! Uses 75 jumbo red LEDs on a 3 dimensional pyramid that stands over 4” tall and has a base of 6” x 6” x 6”. Our 3D Shimmering Pyramid Kit features a hidden control to vary the effect from an overall shimmering effect to a sequencing effect which features bands of LEDs that sequence from the base to the top. Stunning and mysterious pyramid will be the focus of attention wherever it is placed. Operates from one 9V battery (not included). Has a two IC circuit and uses 4 separate circuit boards (3 LED boards and 1 IC board). Complete with all parts, PC board and instructions. Skill Level 3. This kit requires soldering of components to the PC board while building. (Please do not attempt this kit if you have never built a kit).

3D Shimmering Pyramid Kit.....................................................C6437 $30.50
Amazing Arrow Kit

Giant bars of LEDs light up sequentially as this arrow appears to move! Absolutely amazing visual effect using 63 LEDs and a variable speed control. Great as an attention getter, people director, or use 2 kits as an auto directional signal (check local laws). Kit comes with 9V battery snap but will also operate on any voltage between 5V and 12VAC or DC. Kit is available in one of three bright LED colors: red, green or yellow. Optional AC adapter is available. Size of board: 5 1/2” x 4”. Complete with all parts, PC board and instructions. Skill Level 2.

Arrow with Red LEDS .................................................. C6398 $22.75
Arrow with Green LEDS .................................................. C6399 $22.75
Arrow with Yellow LEDS .................................................. C6400 $22.75

Optional AC Adaptor: C6401 $4.95

Giant LED Traffic Light Kit

Unique attention getting Traffic Light Kit uses 3 bright, colorful, giant 10mm LEDs. Just like a real traffic light, this smaller version slowly sequences through green, yellow and red lights. Comes with a paper traffic light label you glue on the PC board and uses a 3 transistor sequencing circuit. Works from one 9V battery (not included). Size of PC board is 3 1/4”L x 1 15/16”W. Comes with all parts, PC board & instructions. Skill Level 1.

Giant LED Traffic Light Kit .................................................. C6791 $5.95

Optional Plastic Type 3 Box C6385 $3.90

Flash Stop Sign Kit

This kit features 20 small LEDs which flash a bright red color. Features a red and white label which you glue to the octagon shaped PC board and a reliable 1 IC circuit. The circuit features a small control to adjust the flash speed. Operates from one 9V battery (not included). Overall size: about 5” x 5”. Complete with all parts, label, PC board and instructions. Skill Level 1.

Flash Stop Sign Kit .................................................. C6788 $11.95

Optional Type C Mounting Base C6622 $3.00

Electronic Fireworks Kit

Exciting kit electronically creates an exploding “firework” like display. Kit features 17 micro red LEDs, 7 green mini LEDs and 1 jumbo red LED. The circuit uses a 2 transistor multi-vibrator that alternates between the “rings” of LEDs, which cause a display like “sky rocket” type fireworks. Great attention getter in a darkened room. Attractive and makes an interesting intermediate project. Size of board: 3.875” x 3”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 2.

Electronic Fireworks Kit .................................................. C6454 $9.50

Optional Plastic Type 5 Box C6367 $4.60

XXL Green LED Flasher Kit

Our extra extra large (XXL) LED Flasher Kit features 2 mammoth (10MM) green LEDs that alternately flash. Circuit uses 1 IC and operates from one 9V battery (not included). Great for hundreds of applications! In fact, if you need to attract attention in a large way the XXL size is for you. Size of PC board: 2” x 1 3/16”. Complete with all parts, PC board and instructions. Skill Level 1.

XXL Green LED Flasher Kit .................................................. C6791 $5.95

Optional Plastic Type 2 Box C6364 $2.90

Brilliant 3D Shimmering White Cube Kit

The Brilliant 3D Shimmering White Cube Kit uses 125 ultra bright 10,000MCD white LEDs that flash or shimmer depending on the hidden control setting. Operates from one 9V battery (not included) and uses 6 PC boards. The small one IC control board and 9V battery are located out of sight inside the 2.5” square cube. The light effects from this kit are amazing! The output is a brilliant strobe flash to a dazzling shimmering effect (depending on the control setting). This kit is time consuming to build and should not be attempted by anyone who has not built kits before. Assembling this kit requires good soldering skills, however you will be rewarded with a stunning display! Complete with all parts, 6 PC boards and instructions. Skill Level 3.

Brilliant 3D Shimmering White Cube Kit .................................................. C6923 $34.75
Fantastic Atom Expander Kit
Giant visual effect kit uses 98 bright red LEDS to provide an “exploding atom” electronic display. Kit sequences from a small “nucleus” center to consecutive larger rings, then “shrinks” back to the center again. Absolutely incredible display for science exhibits, game rooms, art displays or any place where you need to attract attention. Kit requires longer assembly time than most of our kits due to the large number of components. Please don’t attempt this kit unless you have built other kits. Size of board: 8” x 5 3/4”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 3.

Fascination Star Kit
Produces an “exploding star” visual effect using 25 LEDs and IC circuitry. The center LED lights first then the next group of LEDs light and then another set lights until the outer edge of the star lights up. The process then reverses itself. Great attention getter for game rooms etc. Operates from one 9V battery (not included). Size of board: 5.25” x 3.5”. Complete with all parts, PC board and instructions. Skill Level 3.

Rock Star Kit
Thinking about stardom? With your skill Level 3 talent you can create your own rock star. This Rock Star Kit is sure to light up the billboards with 78 ultra bright LEDs that sequentially flash R.O.C.K.S.T.A.R. one letter at a time. The Rock Star Kit uses 2 ICs and has 2 PC boards. The control PC board allows the speed of the letters to be adjusted. Approximate size: main board 2.6” x 4.5” and the control board 1.4” x 2.9”. Operates from a standard 9V battery (not included). Complete with all parts, rockstar label, 2 PC boards and instructions. Skill Level 3.

Red White & Blue Star Strobe Kit
Strobing red white and blue LEDs on this 3” star produce a blinding bright flashing display. Uses one IC circuit with 20 brilliant LEDs and an adjustable control for flashing speed. The star can be seen from great distances and is very eye catching. Operates from one 9V battery (not included). Size of PC board is 3.52”sq. Complete with all parts, PC board and instructions. Skill Level 2.

Super LED Chaser Kit
Here is an exciting visual display! Three groups of 2 LEDs light up sequentially to provide a stunning display. Kit uses 6 jumbo LEDs and 3 transistors. Operates from one 9V battery (not included) and comes in your choice of colors. Size of PC board is 2 7/8” x 15/16”. Complete with all parts, PC board and instructions. Skill Level 2.

Mysterious 3D Pyramid Kit
Very unique kit consists of 3 circuit boards that when assembled form a 3 dimensional flashing LED pyramid. This mysterious and amazing kit features 47 bright LEDs that flash at a rate that you can adjust using a small control. Operates from one 9V battery (not included) and uses a reliable one IC circuit. The pyramid is about 3” high and has a 4 1/2” base. The pyramid is hollow inside and can be set on top of the 9V battery to conceal it. Complete with all parts, PC board and instructions. Skill Level 2.
**LED Flasher Kit**

Easy to build kit uses the amazing 555 timer IC to alternately flash a red and green LED. The kit makes a great attention getter and can be used in robots, warning lights, model railroads, space models, etc. Operates from 9V battery (not included). Size: 1.5” x 1”. Complete with all parts, PC board and instructions. Skill Level 1.

<table>
<thead>
<tr>
<th>Kit Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>LED Flasher Kit</td>
<td>C3287 $4.50</td>
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**“T3” Tip Top Triangle Kit**

“T3” is a fun electronic triangle kit that uses a special 2 transistor multi-vibrator circuit to alternately flash the bottom triangle base consisting of two brilliant clear lens LEDs (1 blue and 1 white) with the top clear lens LED (red). Operates from 9V battery (not included). Size of board: 1.5” x 2.75”. Complete with all parts, PC board and instructions. Skill Level 1.

<table>
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<tr>
<th>Kit Name</th>
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<tbody>
<tr>
<td>“T3” Tip Top Triangle Kit</td>
<td>C6982 $4.95</td>
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**Jumbo LED Flasher Kit**

Simple to build kit uses a programmable unijunction transistor (PUT) to flash a jumbo red LED. Makes a great first kit and is useful for all types of convention badges, posters, attention getters, hats, model railroads, model planes, etc. Operates from one 9V battery (not included). Size of board: 1.25” x 1”. Complete with all parts, PC board and instructions. Skill Level 1.

<table>
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<tr>
<th>Kit Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>Jumbo LED Flasher Kit</td>
<td>C4567 $4.50</td>
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**Piranha LED Flasher Kit**

This kit produces blinding red bursts of light from 3 special “Piranha” LEDs. Uses the popular 555 IC and features 2 controls. One control for the speed of flashing and one for the intensity of the LEDs. Operates from one 9V battery (not included). Size of PC board 2” square. Complete with all parts, PC board and instructions. Skill Level 2.

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<tr>
<th>Kit Name</th>
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<tr>
<td>Piranha LED Flasher Kit</td>
<td>C6951 $7.25</td>
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**Super LED Flasher Kit**

One of our most popular display kits, this kit is perfect for use in robot projects, space models, warning lights, etc. Features a two IC circuit which alternately flashes 4 LEDs: 2 red, 1 yellow and 1 green. Produces a bright and colorful display. Operates from one 9V battery (not included). Size of board: 2” x 2”. Complete with all parts, PC board and instructions. Skill Level 1.

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<tr>
<th>Kit Name</th>
<th>Price</th>
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<tr>
<td>Super LED Flasher Kit</td>
<td>C4407 $6.25</td>
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</table>

**Flashing Triangle Kit**

This triangle shaped LED flasher has 8 jumbo red LEDs that flash brightly. Kit is divided into two independent LED flasher groups with one group of LEDs flashing at a faster rate than the other. This difference produces an exciting display. The circuit consists of two independent multi-vibrator transistor circuits each driving four LEDs. Although this kit is a little more complicated than many of our Skill Level 1 kits, it can be built by a Skill Level 1 student if the teacher gives some supervision. Size of board: 3.8” x 3.8” x 3.8”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 1.

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<tr>
<th>Kit Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>Flashing Triangle Kit</td>
<td>C6440 $6.95</td>
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**Ultra-Bright RGB LED 7 Color LED Flasher Kit**

This amazing kit uses a single ultra-bright RGB (Red Green Blue) LED to produce 7 different colors! By combining the different LED elements inside the RGB LED it is possible to have Red, Green, Blue, Aquamarine (B+G), Purple (R+B), Yellow (R+G), and White (R+B+G). This kit uses a two IC circuit to continuously flash through a pattern of colors. Features a speed control to adjust the flash rate and an on/off switch. This kit makes a unique visual display in the dark as the ultra-bright colors are very intense - perfect for parties or as a conversation piece. Operates from one 9V battery (not included). Size of PC board 2 7/8” x 2 3/4”. Complete with all parts, PC board, and instructions. Skill Level 2.

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<tr>
<th>Kit Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>Ultra-Bright RGB LED 7 Color LED Flasher Kit</td>
<td>C6953 $9.00</td>
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</tbody>
</table>
**Magic Light Sweep Kit**

This kit produces sweeping light bars that magically speed up or down depending on the ambient light level. In darkness, the bars (made up of 4 bright clear lens LEDs each) rotate very slowly, then as the ambient light increases, the sweeping increases and takes on a radar screen appearance. If the ambient light is very bright the sweeping speed is so rapid that the kit appears to shimmer. This kit produces these effects automatically and makes a great attention getter display. Size of board: 2.6” x 4.1”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 2.

- Red Magic Light Sweep Kit ................................................................. C6439R $12.95
- Yellow Magic Light Sweep Kit ............................................................. C6439Y $12.95
- Blue Magic Light Sweep Kit ................................................................. C6439B $12.95
- Red/White/Blue Magic Light Sweep Kit .............................................. C6439RWB $13.95

**“Blinder” LED Flasher Kit**

This kit features 3 crystal clear special LEDs which create brilliant flashes of orange-red light. The light output of this flasher kit can even be seen in direct sunlight. You’ve never seen anything like it! Great for night joggers, bicyclists, warning markers, etc. Size of PC board: 2” x 1.4”. Operates on one 9V battery (not included). Flash rate is adjustable with the built-in trimmer potentiometer. Complete with all parts, PC board and instructions. Skill Level 1.

- “Blinder” LED Flasher Kit ........................................................................C6891 $5.50

**Sequential LED Flasher Kit**

This kit combines CMOS IC circuitry and 10 jumbo red LEDs to produce a unique visual display. LEDs continuously light from right to left. Easy to build kit makes a great conversation piece, game room display, attention getter, etc. Operates from one 9V battery (not included). Size of PC board 5.3” x 1.5”. Complete with all parts, PC board and instructions. Skill Level 2.

- Red Sequential LED Flasher Kit ................................................................. C4431R $9.75
- Blue Sequential LED Flasher Kit ................................................................. C4431B $10.75
- Green Sequential LED Flasher Kit ............................................................... C4431G $9.75

**Flashing Alien Robot Kit**

Full color Flashing Alien Robot Display Kit features 4 Red LEDs, 2 Green LEDs and 1 Yellow LED that flash brightly. Comes complete with a full color robot label which you glue onto the PC board before you start building. The reliable 4 transistor circuit forms the robots body as shown. Very unique and exciting kit to build and show. Operates from one 9V battery (not included). Size of PC board is 3” square. Compete with all parts, PC board, color label and instructions. Skill Level 1.

- Flashing Alien Robot Kit ........................................................................... C6756 $7.95

**“Flash” The Robot Kit (Learn to Solder)**

What a fun kit to practice your solder techniques on. Plus, upon completing this kit, you will have created “Flash” The Robot. This kit features Flash’s eyes that use two very bright and colorful, flashing rainbow LEDs that light up in colors of red, green, blue, violet, and yellow. The hands light up in green. Another feature that’s really cool about this kit, is that there are no worries about finding batteries to keep Flash fueled up because your robot kit is powered by your computer’s USB port! This kit is perfect for beginners learning to solder and stands 3.2” X 1”. Complete with all parts, PC board. Requires soldering. Skill Level 1.

- “Flash” The Robot Kit .................................................................................. C7075 $10.75
**Shaky Jake’s Steady Kit**

Shaky Jake needs to keep it steady while mixing chemicals in his science lab so he’s using The Shaky Jake’s Steady Kit for practice. Jake needs to maneuver his way along the self-shaped wire course with his wand. If the wand’s loop touches the wire course at any point within the course, the red LED lights up and the piezo buzzer alerts a continuous sound until the game is reset indicated by the green LED. The operation of Shaky Jake’s Steady Kit is the latching action of an SCR circuit. This kit is fun to use for all ages and is easy to build and solder for the beginner. The self-shaped wire course and wand loop can be as easy or challenging as the builder desires. Operates from one 9V battery (not included). Size of PC board is 2.5” x 6”. Size of Base 4” x 7”. Complete with all parts, PC board and Base. Requires soldering. Skill Level 1.

Shaky Jake’s Steady Kit..............................................................C7084 $12.95

**Attitude Selector Kit**

What kind of attitude do you have today? With this kit you won’t need to even think about it! All you need to do is place your finger on the sensor wires and the “Happy Face” and “Sad Face” LED eyes will glow. When you remove your finger only one set of eyes will stay on indicating your attitude. It's a fun kit to build and use. Features colorful label which you glue onto the PC board and a 3 transistor circuit with an “odds” adjustment control. Operates from one 9V battery (not included). Size of PC board: 4-1/8” x 3-5/8”. Complete with all parts, label, PC board and instructions. Skill Level 1.

Attitude Selector Kit..................................................................C6776 $6.50

**Lie Detector Kit**

Simple to build kit emits a tone which changes with amount of skin resistance between two fingers. If you are relaxed, a lower pitched tone will be heard. Fun to use and great for parties. Has 2 copper touch plates on circuit board and small speaker. Fun “poor man’s lie detector”! Operates from one 9V battery (not included). Size of circuit board: 1 1/2” x 2”. Complete with all parts, PC board & instructions. Skill Level 1.

Lie Detector Kit..........................................................................C4657 $6.50

**Cliff-Hanger Game Kit**

Have you ever met the challenge of mountain climbing? If not, this is your chance to do it electronically. “Cliff-Hanger” will let you experience the thrill of mountain climbing and test your skills to reach the top! Easy? Not at all, but it can be done. In this game, you will have to press the control button at the precise moment to advance to the next Level on your way to the top of the mountain. If the control button is pressed at the wrong time, you will fall to the bottom. You will not break any bones but you will have to start all over again. This kit features a variable skill adjustment and LEDs of three different colors (red, green, and yellow). Operates from a 9V battery (not included). Size of board: 4 1/8” x 3 1/8”. Complete with all parts, PC board and instructions. Skill Level 2.

Cliff-Hanger Game Kit..............................................................C6723 $13.95

**Alien Attack Game Kit**

Aliens are coming in their warships and are dropping their bombs on you! The only way to defend yourself is by neutralizing their bombs before they reach the ground. The bombs fall at different speeds and in different directions. This kit includes 19 LEDs of three different colors (red, yellow and green), 3 action switches, a circuit board, three ICs, and other components. Operates from one 9V battery (not included). Size of board: 4 1/2” x 3 3/4”. Complete with all parts, PC board and instructions. Skill Level 3.

Alien Attack Game Kit..............................................................C6727 $17.25
**The Tingler Kit**

Are you a “Hero” or a “Wimp”? This kit will give you a chance to prove it! Just set the slide control to the “Wimp” position and place your fingers on the touchpads. You’ll then receive a “tingling” sensation from the mild electrical voltage. Now slide the control towards the “Hero” position and you’ll find it’s much more difficult to leave your fingers on the touchpads (as the tingling sensation becomes much greater). This kit is fun to build and fun to use. Operates from one 9V battery (not included). Size of board: 2 1/2” x 1 1/2”. Complete with all parts, PC board and instructions. Skill Level 1.

**Touch Sensitive Coin Tossing Kit**

This small kit uses 3 transistors and 2 LED circuits to make decisions or replace coin tossing. Features one red and one green LED that flash at a high frequency when you touch the sensor wires. When you quit touching the sensor your decision is shown by the LED that remains on. Has control to adjust the “odds”. Safe and fun to operate. Size of board: 1.6” x 2.2”. Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 1.

**Super Time Reaction Kit**

Amazing and fun to use kit tests your reaction! Simply depress the “start” button with your finger. Eight bright LEDs begin to flash in sequence. Then as fast as possible, press and release the “stop” button with the same finger. Your reaction rating is indicated by the label next to the bright LED which remains on! Have contests with friends to see who has the fastest reaction speed. Do you react with “Lightning Speed” or “Turtle Speed”? Our colorful kit will tell you. Features adjustable speed control to set difficulty Level and operates from a 9V battery (not included). Size of PC board: 3 1/4” x 4”. Complete with all parts, PC board and instructions. Skill Level 2.

**Rolling Dice Kit**

Push the switch on this kit and bright red dice “roll” rapidly. Release the button and one of six standard dice patterns stays on. That’s your number! If you are playing a game that requires two dice, simply remember the first number and roll one more time for the second number. Uses 21 bright red jumbo LEDs and two ICs to provide an electronic way to replace standard dice. Kit features black outline printed dice on top of circuit board. Operates from one 9V battery (not included). Size of board: 6.7” x 3”. Complete with all parts, PC board and instructions. Skill Level 1.

**Wheel Of Fortune Kit**

Very popular game device! Push the start button and a bright red “ball” (LEDs) appears to spin around ten numbers gaining speed as you hold the button down. When you release the button, the electronic ball appears to slow down and finally comes to a stop on one number. As the ball spins, a small speaker emits a ticking sound in synchronisation. Features colorful faceplate and jumbo red LEDs. Operates from one 9V battery (not included). Size: 2 5/8” x 2 7/8”. Complete with all parts, PC board and instructions. Skill Level 3.
**Digital Racquetball Game Kit**

This game is like playing racquetball against a computer opponent. The ball is represented by LEDs, and you have to “hit” the ball by pressing a button. If you do, the ball changes direction, travels up the court, bounces off the wall, then returns for you to hit again. That’s not all! Suddenly the speed of the ball changes and you have to play faster or slower to keep up with the game. This kit also includes an adjustable speed control so that beginners will enjoy playing just as much as the “experts”. You have to keep on your toes though, because if you miss the ball, the game stops and you will have to start over. Operates from one 9V battery (not included). Size of board: 4.5” x 3”. Complete with all parts, PC board and instructions. Skill Level 2.

**Grab the Gold Game Kit**

This exciting game kit features a bright red LED pyramid with a clear LED on top. When power is applied each of the 10 LEDs light up in a sequencing pattern. If you press and hold the small pushbutton just before the top clear LED is to light, this LED will stay on illuminating its bright orange glow indicating that you made it to the top and picked up the gold. If however your timing is off, one of the red LEDs will light up indicating “you lost”. To make the game even more interesting, a control is provided to speed things up! When it’s adjusted to its fastest position you’ll need excellent reflexes and eye to hand coordination to Grab the Gold! Operates on one 9V battery not included. Size of board 2 1/2” x 4”. Complete with all parts, PC board and instructions. Skill Level 2.

**IC Decision Maker Kit**

If you have ever had difficulty in making a decision then this kit may be just the answer you’ve been looking for. When you depress a small on board switch a bright green LED and a bright red LED begin to alternately flash. When you release the button, one of the LEDs stays on indicating the decision. Red means no and green means yes. Fun to use and fun to build. Uses a CMOS IC and operates on one 9V battery (not included). Size of PC board: 1 3/8” x 1 7/8”. Complete with all parts, PC board & instructions. Skill Level 1.

**Deluxe Decision Maker Kit**

Let this colorful “electronic brain” make all of your important decisions for you. Displays the results to your questions using a variety of bright colored LEDs. Uses a 2 IC circuit and a label you glue onto the PC board. Simply press the start button and all of the LEDs begin to flash. As soon as you release the button, one LED will glow to indicate the “electronic brain’s” decision. Lots of fun to use and easy to build. Operates from one 9V battery (not included). Size of PC board: 3” x 3 5/8”. Complete with all parts, label, PC board and instructions. Skill Level 2.

**Time Reaction Tester Kit**

If you ever thought that your sense of timing was good here’s an electronic kit to prove it! If your timing is good the LED will stay on, if not the LED continues to flash. Operates from one 9V battery (not included). Size of board: 1” x 2”. Complete with all parts, PC board and instructions. Skill Level 1.
**Solarbug Kit**

This totally solar powered bug never needs batteries! Great for Summer Science Camp! It produces a sound similar to a crazed cricket whenever the sun shines on it. It can be heard from quite a distance away. Your tiny Solarbug can even be placed under a lamp and will “Chirp” happily. Your unique looking SolarBug can be "customized" or painted to look like a scorpion, strange beetle, etc. You’ll never need to buy batteries for your Solarbug as it uses 4 tiny solar electric power generators. Size of PC board is about 2” x 15/16”. Complete with all parts, PC board and instructions. Skill Level 2.

*Solarbug Kit.................................................................C6843       $15.95*

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**Adjustable 1.2V up to 24VDC Power Supply Kit**

Adjustable power supply kit uses an IC voltage regulator type LM317 to provide an output controlled by a potentiometer from 1.2VDC up to 24VDC. In the range of 1.2V to 12VDC the kit can supply up to 200mA. Above 12VDC, the kit supplies up to 10mA. The LM317 provides regulation of the output. Size of PC board is 1.8” x 4”. This kit operates on standard 120VAC so the builder should be aware of AC safety concerns and mount finished kit in an insulated case (not included). Complete with all parts, PC board and instructions. Skill Level 2.

*Adjustable 1.2V up to 24VDC Power Supply Kit................C7085       $15.25*

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**0-12VDC Variable Power Supply Kit**

This is one of the most inexpensive and reliable power supply kits on the market today! It is ideal for powering breadboard experiments, small tape recorders, radios, amplifiers, calculators and various electronic projects. This kit features a transformer, a circuit protecting fuse, a power transistor, full-wave rectification, two radial electrolytic capacitors, an LED power indicator, On/Off switch, a potentiometer and other components. This power supply has a reliable circuit design with momentarily short circuit protection. Power supply outputs a maximum current of 100mA@12V and 200mA@6V or less. Operates from standard 120VAC. Size of board: 3 1/2” x 2”. Complete with all parts, PC board and instructions. Skill Level 2.

*0-12VDC Variable Power Supply Kit.......................................C6724       $12.25*

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**0-12VDC 1Amp Variable Power Supply Kit**

This is one of the most useful kits to have around. Features variable output from 0 to 12VDC filtered at up to 1Amp. Uses IC voltage regulator and a heavy duty transformer. Kit also features red, yellow and green LEDs that glow at different output voltages to show approximate output voltage - no need for meters. Operates from standard 120VAC and is great for powering amplifiers, radios, projects, etc. Size of PC board 6.5” x 2.9”. Complete with all parts, PC board and instructions. Skill Level 2.

*0-12VDC 1Amp Variable Power Supply Kit......................................C6929       $23.75*

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**0-12V 1Amp Regulated Power Supply Kit**

This is similar to our C6929 power supply kit, however this kit uses a plug-in AC adapter to prevent any contact with 120VAC voltage. It features a regulated and filtered variable 0-12V output with up to 1Amp of available current. Uses an IC voltage regulator, heavy duty plug-in adapter and circuit that uses 3 different LEDs to indicate approximate voltages. Can power many electronic projects, radios, and small DC powered items. Size of PC board is 1.85 x 2.85”. Complete with all parts, PC board, AC adapter and instructions. Skill Level 1.

*0-12V 1Amp Regulated Power Supply Kit........................................C7055       $25.75*

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**Regulated Triple Output DC Power Supply Kit**

Great for use in a laboratory, on a test bench, or for experimentation. This power supply is 3 variable power supplies in one unit. It features ±1VDC to ±15VDC@400mA and +1V up to 21VDC@1Amp. Uses IC voltage regulator and a powerful transformer for reliable operation. Operates from 120VAC, and features 3 separate controls to adjust the 3 separate voltages. Size of PC board: 7” x 3.9”. Complete with all parts, PC board and instructions. Skill Level 2.

*Regulated Triple Output DC Power Supply Kit..............................C6895       $31.95*
20W + 20W Stereo Amp Kit

Two separate high power amps on one PC board. Each amp has its own Level control and puts out an incredible 20 Watts RMS. Features red LED “on” indicator and low distortion circuitry. Great stereo booster amp for your car sound system. Use with any speakers capable of handling at least 20 watts. Size of board: 6” x 2.25”. Operates from 12VDC. Complete with all parts, PC board and instructions. Skill Level 2.

20W + 20W Stereo Amp Kit .................................................C6442 $27.75

20 Watt RMS Mono Amp Kit

High power amp for various booster applications. Kit features short circuit and open circuit protection and has very low distortion (1% or less). Amplifier has red LED “on” indicator and will boost any tuner, radio, cassette, CD player to room filling volume out of your speaker! Size of board: 3.75”x 2.1”. Operates from 12VDC. Complete with all parts, PC board and instructions. Skill Level 2.

20 Watt RMS Mono Amp Kit ................................................C6444 $20.75

Megaphone Kit

With this Chaney kit you can build a useful megaphone or PA system to amplify your voice. This kit is small and self-contained and includes a high-gain electret microphone, an IC audio amplifier, a volume control and a speaker. You will really be amazed with the clarity of sound and power of this little amplifier system. Ideal for use as a megaphone, PA system, one-way intercom, or many other applications where sound needs to be amplified. Approximate size of board: 1 3/4” x 1 1/4”. Operates from a standard 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 1.

Megaphone Kit .....................................................................C6746 $8.95

General Purpose Amplifier Kit

Very handy amplifier kit can be used as a full volume amplifier to provide speaker output on any item you have which now only drives an earphone. Produces good sound and features volume control. Size of board: 2.25” x 1.8”. Operates from 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 1.

General Purpose Amplifier Kit ...........................................C6238 $10.95

Guitar Practice Amp Kit with Case

The Guitar Practice Amplifier Kit with Case is perfect for any aspiring guitar musician! Operates on one 9V battery (not included) and delivers up to 1Watt of guitar music from a built in 3-1/2” speaker. Features standard 1/4” female jack for guitar cord, volume control, tone control, on/off switch, “on” indicator and compact case of 4.25” square x 2.25” high. Comes with all parts, PC board, case and knobs. Skill Level 2.

Guitar Practice Amp Kit with Case ...........................................C7058 $23.25
**9VDC Strobe Warning Flasher Kit**

Compact strobe flasher produces brilliant flashes of white light from a Xenon horseshoe strobe tube. Features newly revised circuit for brighter output and less current drain. Operates from standard 9V alkaline battery (not included) and flashes approximately 40 times per minute. Great safety device and attention getter. Small board is only 1-7/8' x 1-1/2". Complete with all parts, PC board and instructions. Skill Level 2.

**Strobe Light Kits**

*9VDC Strobe Warning Flasher Kit*... C5175 $15.75

**120VAC Variable Strobe Light Kit**

One of our most popular strobe light kits - thousands of these are in use. Features variable flash rate and straight Xenon strobe tube. Speed can be varied from about 120 to 200 flashes per minute. Great for parties, dances, displays, etc. Operates from standard 120VAC. Size of board: 3" x 2". Complete with all parts, PC board and instructions. Skill Level 2.

**120VAC Variable Strobe Light Kit**... C3071 $13.25

**Deluxe Professional Xenon Strobe Kit**

Attractive and powerful Xenon strobe kit comes complete with a custom designed case. Features operation from 120VAC, variable flash rate speed control, long life horseshoe xenon strobe tube and sturdy beige case with clear front lens. This high quality kit has everything you need to make a reliable professional quality Xenon strobe that is perfect for parties, dances, theatrical effects, attention getters, etc. Complete with all parts, PC board, case with lens, knob, instructions and power cord. Designed for heavy duty use with both thermal protection and overload fuse protection. Size about 6 1/8"W x 2 1/8"H x 6 3/4" Deep. Skill Level 2.

**Deluxe Professional Xenon Strobe Kit**... C6888 $32.95

**120VAC High Power Strobe Light Kit**

Deluxe variable rate strobe light kit which is similar to the C4823 kit but produces a brighter flash. Features a horseshoe shaped strobe tube and includes a reflector. Has control to vary flash rate from 100 to 200 flashes per minute. Great for applications requiring higher light output - discos, school dances, etc. Operates from standard 120VAC. Size of board: 4 1/2" x 3". Complete with all parts, PC board and instructions. Skill Level 2.

**120VAC High Power Strobe Light Kit**... C4162 $21.75

**Brilliant LED Strobe Kit**

This Brilliant LED Strobe Kit features 12 super flux LEDs each rated at 10,000 MCD’s. The super flux LEDs are driven by a 555 IC and a multivibrator circuit that creates a flash, similar to the Xenon strobe tube, and uses a DC voltage. Unlike other strobes that requires 120VAC, this strobe operates on a standard 9V alkaline battery (not included) which makes it easily portable to any party. Perfect special effects prop used in your movie or any other attention getting event. Mounting holes are provided if your application requires it. The adjustable trim pot allows you to adjust the speed and flash that varies from 45-700 flashes per min. Size of PC board: 4.56" X 1.8". Complete with all parts, PC board and instructions. Skill Level 2.

**Brilliant LED Strobe Kit**... C7408 $12.25

**120VAC Brilliant Strobe Light Kit**

Good medium priced strobe light kit which features variable speed and brilliant flashes of white light from a horseshoe shaped Xenon flashtube. Great for parties, dances, etc. Reliable design circuit has control to vary flash rate from about 120 to 200 flashes per minute. Another very popular strobe kit which will be the hit of the party. Operates from standard 120VAC. Size of board: 3" x 5". Complete with all parts, PC board and instructions. Skill Level 2.

**120VAC Brilliant Strobe Light Kit**... C4823 $16.95

**Tiny Strobe Light Kit**

Tiny Strobe Light Kit operates from 3 AAA batteries (not included) and produces a bright white flash of light from a 1" long Xenon strobe tube. The flash rate with fresh batteries is about 60 per minute (rate will slow down as the batteries get weaker). Great for warning flashers on bikes, RC airplanes, hiking, etc. Can be seen even in bright sunlight! Uses 2 transistors and an efficient inverter circuit to produce the high voltage necessary for the xenon tube. Size of PC board is 1.8" square. Complete with all parts, battery holder, and instructions. Skill Level 1.

**Tiny Strobe Light Kit**... C6995 $11.95
SMD Flashing Initials Kit

Very unique kit flashes two initials of your choice on and off. Features brilliant green SMD LEDs that you install to form any two letters from A to Z or any two numbers from 0 to 9. Letters are 2" high and can be seen from quite a distance. Complete with 44 SMD LEDs, all parts, PC board and instructions. Overall size of PC board 2 1/2" x 3". Operates from one 9V battery (not included).

Skill Level 3 (This kit is not for beginners).

SMD Flashing Initials Kit .............................................................................C6861 $16.95

OPTIONAL PLASTIC TYPE 2 BOX C6364 $2.15

SMD Light Sentry Alarm Kit

Tiny SMD kit can be hidden in any dark place, closet, desk drawer, briefcase, etc. The moment it senses light it emits a high pitched tone and it continues to scream until you return it to a dark place. The SMD Light Sentry Alarm Kit is fun to build and use! Operates from one 9V battery (not included).

Size of board only 1 5/8" x 1 7/16". Complete with all parts, PC board and instructions. Skill Level 2.

SMD Light Sentry Alarm Kit ........................................................................C6735 $7.25

OPTIONAL PLASTIC TYPE 2 BOX C6364 $2.15

OPTIONAL PLASTIC TYPE 1 BOX C6363 $2.15

Brilliant Red and Blue SMD Flasher Kit

Small brilliant LED flasher alternately flashes one red and one blue LED. Uses SMD (surface mount device) components so there are no holes in the PC board (all components mount to the small foil pads on top of PC board). SMD is the most common technology in use today and this kit provides a nice introduction for your students. Operates on one 9V battery (not included).

Size of PC board 1.6" x 1.1". Complete with all parts, PC board and instructions. Skill Level 2.

Brilliant Red and Blue SMD Flasher Kit .....................................................................C6945 $6.00

OPTIONAL PLASTIC TYPE 2 BOX C6364 $2.15

OPTIONAL PLASTIC TYPE 1 BOX C6363 $2.15

SMD Flashing Name Plate Kit

This exciting Chaney Electronics Kit features your “Name in Lights”. Features space for up to 8 letters or numbers of your choice (A-Z or 0-9) made up of brilliant Green SMD LEDs. Your name or simple message can be seen from across the room even in full light conditions. The name flashes at your choice of speeds from slow to fast. Each character is about 1 5/8” tall and you can use all 8 or just the quantity you need to make your name. We give you 150 special brilliant green SMD LEDs (enough to make most 8 character names). Size of name plate PC board is 2 1/4” x 9 1/2”. To cause your name plate to flash, a small 2” x 1 5/16” control board that uses regular “feed thru” (not SMD) components is used. This IC circuit features a variable flash rate speed control and operates from one 9V battery (not included). Complete with all parts, 2 PC boards and instructions. Sorry, no case available. Skill Level 3. Not for beginning students.

SMD Flashing Name Plate Kit .............................................................................C6867 $35.25

SMD IC Star LED Flasher Kit

Our most advanced SMD kit uses a tiny 555 SMD IC to flash 5 tiny SMD LEDs. The LEDs flash with a bright yellow green color. Because this kit uses a tiny SMD IC, SMD resistors, a tiny SMD capacitor, and SMD LEDs, it provides the best introduction to SMD technology. We do not recommend this kit for beginning students as the lead spacing on the IC is very tight and the kit must be assembled with patience and a small tip soldering iron. Great for advanced students, colleges and technicians wishing to learn more about SMD technology. Operates on a 9V battery (not included). Size of PC board: 1 3/4" x 2". Complete with all parts, PC board & instructions. Skill Level 3.

SMD IC Star LED Flasher Kit .............................................................................C6708 $7.50

OPTIONAL PLASTIC TYPE 2 BOX C6364 $2.90

OPTIONAL PLASTIC TYPE 1 BOX C6363 $2.15

SMD Flashing Initiallys Kit

The latest technology in electronic products is Surface Mount Devices (SMDs). SMDs are tiny leadless (short lead) components that are used in almost everything from computers to phones. Now Chaney Electronics makes it possible for your students to learn more about surface mount technology through the construction of any of our SMD kits. Students use a drop of white glue (or any other glue that’s handy) to glue the parts to the PC board, then they solder the parts. We recommend using tweezers, a magnifying glass and a small tip soldering iron. NOTE: Please do not have beginners build these kits as we cannot repair them due to the fact that the components are very tiny and glued onto the PC board.

SMD Flashing Initiallys Kit
**CMOS/TTL Logic Probe Kit**

The Chaney C6722 CMOS/TTL Logic Probe Kit is handy, reliable, and inexpensive. Designed to operate with voltages between 5 and 20 volts, this logic probe is the ideal tool for troubleshooting CMOS and TTL digital circuits. It has a visual indicator that consists of a red LED and a green LED. The red LED indicates a High (1) logic state, and the green LED indicates a Low (0) logic state. This logic probe is small, easy to build, and easy to use. Operates from the power of the circuit being tested. Size of PC board: 3 5/8" x 1 1/4". Complete with all parts, PC board and instructions. Skill Level 1.

**Battery Tester Kit**

Our Battery Tester Kit is just the answer to test all types of common batteries. Simple to use—just select the battery voltage to be tested by rotating the selection switch and connect the clip leads to the battery. If the battery is good, the green LED lights. If it’s bad the red LED lights. Kit features 5 calibration trim pots to allow you to set up your tester to test any 5 different type batteries that you frequently use. Size of board: 2.6" x 3.5". Operates from one 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 1.
**Mood Meter Kit**

Here’s an electronic kit that’s fun to build and use. The kit features a colorful label that you glue onto the PC board and 10 bright colorful LEDs to indicate your mood. You simply rest two of your fingers on the sensors and the sophisticated “comparator” IC determines your skin resistance and lights up the appropriate rating: Blue LED= “Cool as a Cucumber”, Green LED= “Easy Going”, Yellow LED= “Warm Hearted” and Red LED= “Smokin Hot”. Operates on one 9V battery (not included). Size of PC board: 4” x 4 5/8”. Complete with all parts, label, PC board and instructions. Skill Level 2.

*Mood Meter Kit* ................................................................. C6775 $11.15

**Heart Throb Kit**

How fast will your heart throb? Are you the calm, silent, cold type or the hot-blooded casanova type? Only the Heart Throb Kit knows for sure! This fun kit features a bright red heart which has the ability to flash at various rates for different people. Place your fingers on the contacts and see how fast the heart will throb! Kit features IC circuitry and 36 jumbo red LEDs. Operates from one 9V battery (not included). Size of board: 3.6” x 4”. Complete with all parts, PC board and instructions. Skill Level 2.

*Heart Throb Kit* ................................................................. C6410 $11.95

**The Haunted Pumpkin Kit**

Here is the perfect kit to spice up your Halloween. In addition to alternately flashing its green LED eyes with its red LED nose, it also produces an eerie, spooky electronic sound from its piezo mouth. The kit operates from one 9V battery (not included) and uses a 2 IC circuit and full color “pumpkin label” for you to glue on to the PC board. Size of PC board: 5” x 3”. Complete with all parts, label, PC board and instructions. Skill Level 2.

*The Haunted Pumpkin Kit* .................................................. C6783 $11.50

**Screaming Turkey Kit**

Colorful kit makes a great addition to any Thanksgiving celebration. Perfect for an unusual centerpiece or home decoration. Not only does the Screaming Turkey Kit produce a screaming turkey sound, but also the colorful red, green, and yellow LEDs light up and flash. The 2 IC circuit features 2 controls to adjust the sound and flashing speed. Operates from one 9V battery (not included) and uses a full color “Turkey” label that is glued to the PC board before you install the components. Size of PC board: 5” x 3”. Complete with all parts, label, PC board and instructions. Skill Level 2.

*Screaming Turkey Kit* ........................................................ C6784 $11.50

**Magic Christmas Tree Kit**

This unique kit is sure to surprise all who see it! The kit shows a colorful Christmas tree which has 3 white looking bulbs (actually LEDs). When a 9V battery (not included) is connected, the bulbs on the tree blink all red then all green and then back to red again. The effect is magic! Size of PC board: 2 1/2” x 2 5/8”. Circuitry uses 4 transistors to produce this unique display and a color label which you glue to the PC board before you start assembling the kit. Complete with all parts, label, PC board & instructions. Skill Level 1.

*Magic Christmas Tree Kit* .................................................. C6773 $6.25

**Flashing Christmas Trees Kit**

Bright red and green Christmas trees alternately flash in this colorful kit. This kit uses one IC and 2 transistor electronic circuit with 18 colorful miniature bright LEDs. Features adjustable flash speed control that can be adjusted from slow alternate flashing to a shimmering effect. Great attention getter, Christmas ornament, Christmas display, etc. Size of circuit board: 3 5/8” x 1 7/8”. Operates from a 9V battery (not included). Complete with all parts, PC board and instructions. Skill Level 2.

*Flashing Christmas Trees Kit* ............................................. C6711 $9.25
Electronic Cricket Kit

Here's just what you need to complete your home, an electronic cricket that starts “chirping” every time the lights go out. Of course if you turn on the lights to look for the “cricket”, it becomes silent again. Uses a CMOS IC and CDS cell circuit with an adjustable “cricket” sound control, that enables you to adjust your cricket to the chirp that you find most irritating. Simple to build and loads of fun to use. Your electronic cricket is sure to get the attention it deserves. Operates from one 9V battery (not included). Size of the PC board: 1 7/8” x 2 1/2”. Complete with all parts, PC board and instructions. Skill Level 1.

Electronic Cricket Kit .......................................................... C6707 $6.50

Mysterious Sound Kit

The Mysterious Sound Kit remains silent for about 30 seconds after being “armed” (ample time to hide it in a room). After the 30 to 40 second time delay the tiny kit emits a strange high pitched sound for several seconds then a loud “ticking” sound. The loud ticking sound goes on all day unless someone finds where you have hidden it. Uses 3 transistors, a piezo speaker, and has a control to adjust the speed of the “ticking” sound. Operates on one 9V battery (not included). Size of PC board is 1.7” square. Complete with all parts, PC board and instructions. Skill Level 1.

Mysterious Sound Kit .......................................................... C7015 $7.25

TOWS Kit

The TOWS (Terribly Obnoxious Woodpecker Sound) Kit produces a very loud woodpecker sound. This small kit just can’t be ignored as it generates the pecking sound of a crazed bird. Uses a small piezo and a two transistor electronic circuit that generates a high voltage to provide a terribly loud “rapping/tapping” sound from the piezo. Features include a small control to adjust the speed of the “tapping”, and operation from a 9V battery (not included). Size of PC board: 2 3/4” x 1 3/8”. Complete with all parts, PC board and instructions. Skill Level 1.

TOWS Kit .......................................................... C6712 $6.25

Phasor Sound And Light Kit

This kit produces the sound and light you’ve seen in the futuristic weapons used in most space movies! Phasor Kit features a control to vary the frequency of the sound. Great for attention getters, science projects or use your imagination and place our kit in models, robots, phasor guns, etc. Operates from one 9V battery (not included). Size of board: 2 3/4” x 2”. Complete with all parts, PC board and instructions. Skill Level 1.

Phasor Sound And Light Kit .......................................................... C6406 $8.50

Crazy Chirper Kit

Here’s the perfect kit to keep your unsuspecting guests entertained or should we say irritated. The chirper kit remains silent until the lights go out (just like a real cricket). The moment it gets dark the “chirper” starts to make its racket driving your guest crazy. Of course, when your guest turns the light on to look for the “chirper”, it becomes quiet again. This fun kit features a CDS cell circuit with 2 transistors, piezo speaker and a flashing LED (which can be disabled). The built-in sound control allows you to adjust the sound from that of a crazy cricket to that of a chirping canary. Operates from one 9V battery (not included). Size of board: 3” x 2”. Complete with all parts, PC board and instructions. Skill Level 1.
**Cosmic Poppers Kit**

This very unusual kit emits random pops and random explosions of bright white light when it is in the dark (kit has a CDS cell to sense the absence of light). This kit produces one of the most unusual “out-of-this-world” effects! Features SCR and CDS circuitry with 3 bright lamps and a piezoelectric speaker. Easy to build and it creates a spectacular display. It may even cause speculation as to whether or not it was left here by aliens! We put 4 of these into a darkened room and the resulting sound and display was amazing. Size of PC board: 2.9” x 2.4”. Operates on 2 “AA” batteries (not included). Complete with all parts, PC board and instructions. Skill Level 1.

**Gravity Detector? Kit**

This kit detects gravity? Well, not really- What it does do is remain in an off state until a curious person lifts up the kit to study it. The “Gravity Detector” has a CDS cell underneath the board which activates when the board is lifted and gives the “curiosity seeker” a mild electric shock from the “handle” attached to the board. A great practical joke item! Uses IC, SCR and FET circuitry. Operates from one 9V battery (not included). Size of PC board: 4” x 2”. Comes with all parts, PC board & instructions. Skill Level 2.

**The Aggravator Kit**

This exciting kit combines the most aggravating features from 2 of our most popular kits: the Insanity Alarm and the Secret Squealer. Hide this kit in a room and it will wait in total silence until the room darkens. In the dark it begins its aggravating function: for about 2 or 3 seconds every 3 to 5 minutes it emits a screaming tone. Any unsuspecting person will want to find the culprit so he will turn on the lights, but the Aggravator Kit will remain silent again making it impossible to find. On returning to the quiet of the darkened room the person will be startled again after 3 to 5 minutes. This is a fun, harmless kit that will bring hours of enjoyment. Complete with all parts, PC board and instructions. Operates from one 9V battery (not included). Size of PC board: 1 1/4” x 2 3/4”. PC board is about 2” x 2.5”. Complete with all parts, PC board and instructions. Requires Soldering. Skill Level 1.
Classroom Bulk Package Kits

A great economical way to introduce your students to the fascinating field of electronics. Bulk packages contain all the parts and PC boards to build 25 kits. In addition, a set of 25 individual instructions and recloseable zip bags are included for you to distribute the parts to your students.

"Blinder" LED Flasher Kits
Package for up to 25 Students
This kit features 3 crystal clear special LEDs which create brilliant flashes of orange-red light. The light output of this flasher kit can even be seen in direct sunlight.

See C6891 (Page 33) for kit details.

C8100 $115.00

Phasor Light and Sound Kits
Package for up to 25 Students
This kit produces sound and light you’ve seen in futuristic weapons used in most space movies! Great for attention getters, science projects or use your imagination and place our kit in models, robots, phasor guns, etc.

See C6406 (Page 43) for kit details.

C8101 $170.00

Crazy Chirper Kits
Package for up to 25 Students
Here’s the perfect kit to keep your unsuspecting guests entertained or should we say irritated. The chirper kit remains silent until the lights go out (just like a real cricket). The moment it gets dark the “chirper” starts to make its racket driving your guest crazy.

See C6470 (Page 43) for kit details.

C8102 $115.00

TOWS Kits
Package for up to 25 Students
The TOWS (Terribly Obnoxious Woodpecker Sound) Kit produces a very loud woodpecker sound. This small kit just can’t be ignored as it generates the pecking sound of a crazed bird.

See C6712 (Page 43) for kit details.

C8103 $125.00

Little JitterBug Robot Kits
Package for up to 25 Students
Better not leave any popcorn or chips around! This little jitterbug robot is waiting for night, or when it’s completely dark, to roam the countertops in search of goodies. The light sensor allows the jitterbug to come alive and scoot around with the help of a tiny vibrating motor.

See C6984 (Page 22) for kit details.

C8104 $140.00

Super LED Chaser Kits
Package for up to 25 Students
Here is an exciting visual display! Three groups of 2 LEDs light up sequentially to provide a stunning display. Kit uses 6 jumbo LEDs and 3 transistors. Includes five different LED colors.

See C6825 - C6829 (Page 31) for kit details.

C8106 $115.00

Flashing Alien Robot Kits
Package for up to 25 Students
Here’s a colorful, fun kit for beginner electronics students. Features 4 transistor multivibrator circuit which causes the 7 LEDs to flash bright with vibrant colors.

See C6756 (Page 33) for kit details.

C8107 $156.00

IR Control Spinner Kits
Package for up to 25 Students
Your classroom will be mesmerized with the dizzying effects of their IR control Spinner Kit. Uses a motor and a sensitive IR module to work with any type of IR remote control (not included).

See C6778 (Page 24) for kit details.

C8108 $168.95

Bulk Colorful Brilliant Blinker Kit
Package for up to 25 Students
Here’s a great economical way to introduce your students to the fascinating field of electronics. This bulk package contains all the parts and PC boards to build 25 Colorful Brilliant Blinker Kits.

See C6958 (Page 21) for kit details.

C6944 $120.00

Classroom Solder Practice Activity (With PowerPoint CD)
for up to 24 Students
Here’s the perfect way to introduce soldering to your students and give them the necessary soldering experience needed to build electronic kits.

See (Page 4) for kit details.

C6774 $120.00
Large Universal Breadboard
Handy breadboard for making prototype circuits. White 6 1/2” x 2 1/8” quick connect breadboard accepts almost all types of electronic components and wires. Consists of 126 groups of 5 connected terminal points and 8 bus lines of 25 connected terminals. High quality.

C7113 $10.00 ea.

Compact VOM with Backlight
This is a great VOM! It features a data hold button, a backlight button that lights up the display for a few seconds so you can take readings in the dark, a continuity sound position and a hFE (gain) test position for transistors. It can measure 0-600VDC in 5 ranges, G-600VAC in 2 ranges, 0-2 MegΩ resistance in 5 ranges, diode test and 0-10 amps in 5 ranges. This deluxe digital VOM is only 5 1/2” x 2 3/4” x 1 5/8”. Brand new in sealed retail blister package with built in battery and flexible color coded insulated test leads.

C7327 $19.95 ea.

Special Soldering Helping Hands
This is the most useful of the “helping hands” series for anyone building or repairing electronic kits. It comes with fully adjustable clips for holding your circuit board, a quality magnifying glass, a small soldering iron holder and a sponge in the base. Just provide a soldering iron, wet the sponge and you’re ready to go.

C6694 $9.25 ea.

SMD Tweezer Magnifier
This is one of the most useful items for working with SMD parts. Tweezer folds out from magnifying glass so that you can get a clear view of the tiny part you’re picking up. Size about 3 1/2” long.

C6513 $4.95 ea.

9V Battery Snaps
Pack of 100 9V battery snaps. We use these in our kits.

C6539 $46.00

555 Timer IC
555 timer integrated circuit. We use these in many of our kits. Package of 10.

C6544 $5.75

Super LED Assortment
Assortment of all types, colors, sizes and shapes of prime high quality LEDs. Assortment contains 100 pieces in a reclosable bag.

C6515 $8.25 ea.

Bag of Electronic Parts
Zip close plastic bag containing about 40 popular electronic parts. You’ll get 5-red LEDs, a Green LED, a Yellow LED, 5-2N3904 NPN transistors, 5-2N3906 Transistors, a 106 SCR, a 386 IC, 2-555 ICs, a 4001 IC, a 4011 IC, a 4017 IC, a 4093 IC, 2-Diodes, 2-9V snaps, transistors, 5-2N3906 Transistors, a 106 SCR, a 386 IC, 2-555 ICs, You’ll get 5-red LEDs, a Green LED, a Yellow LED, 5-2N3904 NPN transistors, a 106 SCR, a 386 IC, 2-555 ICs, a 4001 IC, a 4011 IC, a 4017 IC, a 4093 IC, 2-Diodes, 2-9V snaps, transistors, 5-2N3906 Transistors, a 106 SCR, a 386 IC, 2-555 ICs, a 4001 IC, a 4011 IC, a 4017 IC, a 4093 IC, 2-Diodes, 2-9V snaps, plus several popular resistor and capacitor values!

C6831 $9.25

Workaholic 9V Batteries
Brand new sealed 9VDC Workaholic Alkaline Batteries.

Pkg of 4 G20084 $8.25
Pkg of 12 G20083 $23.00

1/4 Watt Carbon Resistors
Prime color coded 1/4W carbon resistors. Select values from table at right. Order by stock number. 100/$3.50 Quantities of any one value (no mixing)

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Transistors
Our most commonly used transistors

2N3904 NPN Transistors
C6504 $23.00 (Pkg 100)

2N3906 PNP Transistors
C6505 $23.00 (Pkg 100)

Deluxe 5.5V 0.360Amp USB Solar Panel
Solid and sturdy, this panel weighs only 7 ounces and features a Standard Female USB connector, with an output of 5.5VDC and 0.36Amp (about 2 Watts). Simply plug the cable you normally use to charge your cell phone into the USB port on panel, the other end into your phone and you have a great solar powered charger. Great for camping trips, remote areas, road trips, living off grid, preparist gear, etc.

G23903 $8.95

Deluxe 5.5V 0.560Amp USB Solar Panel
Sturdy silicon solar panel is rated 5.5VDC @ 0.560Amp, has glass surface and standard female USB connector. Output is over 3 Watts and is designed to charge cell phones, iPads, cameras, etc. See website for additional product details.

G23942 $11.95

Powerful USB Solar Panel 5.5V, 1.2Amp, 6Watts
Sturdy silicon solar panel is rated 5.5VDC @ 1.2Amps, has a glass surface and standard USB female connector. Output is 6Watts and is designed to rapidly charge all cell phones - even the latest types. Great for iPads, cameras and many other electronic items that use USB cables. See website for additional product details.

G24047 $27.95

Super Compact 3400mA Rechargeable Power Bank/Flashlight
Powerful 3400mA PowerBank charges almost all smart phones in several hours or less. Perfect for long trips or intense phone usage days as this handy device can easily fit in your pocket or purse. Size only 4.2" long X 0.9” diameter. See website for additional product details.

G24032 $8.95

Mystery Surprise Box
We stuffed 100’s of various components in the 5” x 6” mysterious component surprise box. You will find lots of LEDs in addition to many other new and valuable component types. It’s an incredible value and an exciting mystery box to explore.

G22665 $4.95

Large Metal Case CDS Cell
Metal case CDS cell size is about 0.55” x 0.2”. The resistance value and an exciting mystery box to explore.

G22670 $2.95
CHANNEY ELECTRONICS offers a complete line of enclosures for your electronic projects. For economy and simplicity, we offer several sizes of crystal clear hinged plastic boxes. To give you more variety, we also offer four Display Base Mounting Kits.

**PLASTIC BOXES**

These boxes can be drilled, painted and custom finished by you, or you can take the plain box and simply place your project in it with a minimum effort. We have listed the recommended box size below each electronic project kit. The complete box list is shown below if you wish to compare sizes.

<table>
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<th>TYPE 1 BOX</th>
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Press-Apply RUBBER FEET for above Boxes C6397 Package of 8 for $1.00

**DISPLAY BASE MOUNTING KITS**

These attractive grey acrylic mounting bases are perfect for finishing off your kit. Each Display Base comes with 4 press apply rubber feet and a piece of double-stick foam mounting tape to mount your kit to the base.

<table>
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<tr>
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<td>TYPE C BASE</td>
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**Variable Temperature Soldering Iron Station**

This soldering station has front panel control to adjust temperature from 302˚ F to 842˚ F to match most soldering requirements. Operates on standard 120VAC 60Hz. Has built in tip cleaner sponge and sturdy soldering iron holder. Supplied with a pointed tip.

G22784 $29.95 Add Extra Replacement Tip C6837 $3.00 ea.

**Roll of Electronic Solder**

Generous roll of 63-tin, 37-lead resin core solder is great for almost all electronic soldering needs. Diameter of solder is between 0.8mm and 1mm. This is about 10 times the amount of solder that is in the G16713 plastic tube that we sell.

G19380 $12.95 ea

**Handy Tube of Rosin Core Solder**

Perfect for all types of electronic kit construction or repair. Slip it into your pocket or tool chest. No hassles - easy way to have the right solder available when you need it. Tube is about 3 1/2" long. Solder is about .031 diameter and is perfect for almost every electronic application! Length about 6 ft.

C6650 $2.50 ea

**Handy Solder Wick**

Great for de-soldering components from a PC board. Simply lay end of solder wick braid on top of PC solder pad and heat with solder iron. The solder “wicks up” into the braid so that you can easily remove the component. 5 ft long--in a handy dispenser.

C6651 $2.60 ea

**Handy R.O.H.S Solder**

This specially formulated rosin core solder contains no lead and meets R.O.H.S. requirements. This solder is perfect for use in building any of our R.O.H.S. kits. You get a 6ft coil (ample supply to build several kits).

C7329 $2.60 ea

See www.chaneyelectronics.com for hundreds of Electronic Components & Supplies
<table>
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Column C Total

Column D Total

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