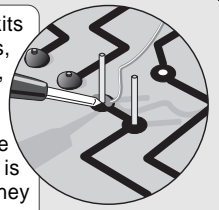


The Electronic Goldmine offers one of the largest selections of low cost, high quality electronic kits available anywhere. Thousands of these kits are sold each month to hobbyists, schools, technicians, engineers, commercial companies, etc. Each of these kits come with a drilled glass epoxy PC Board, all necessary electronic parts (except as noted on a few of the kits) and easy to understand instructions. You only need to provide a battery for the battery operated kits, and if desired, you may wish to provide a case. We recommend that you use a low wattage soldering iron and good quality rosin core solder when assembling your kits. You will also need to have a pair of wire cutters. Building our kits is both rewarding and fun, because they are thoroughly engineered, so that with proper assembly they work the first time! Skill levels should be observed as shown in the listing below.



PC Board Soldering

Skill Level 1 Beginner

No Previous Knowledge of Electronics

Skill Level 2 Intermediate

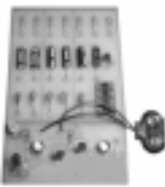
Have Built Kits Before
Knows AC Safety Precautions
Solders Well

Skill Level 3 Advanced

Have Built Many Kits
Knows AC Safety Precautions
Solders Perfectly

Learn To Solder Kit

Special kit designed for the person who has no experience with soldering. The first 20 components are used to gain soldering experience, but the last 10 components, when soldered in, make a bright red and yellow alternating LED flasher! Practice components include: capacitors, a transistor, resistors, and an IC socket. Requires one 9V battery (not included). Size of board: 4.75" x 3". Skill Level 1
C6445 \$8.50 ea.



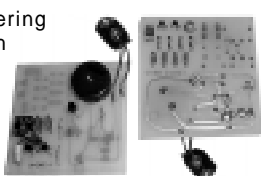
Deluxe Learn to Solder Kit

Unique 3 kits in one! Consists of 13 practice parts for middle section, Insanity type alarm at one end and jewel LED flasher at the other end. Uses two 9V batteries (not included). Skill Level 1.
C6491 \$12.75 ea.



Universal Learn to Solder Kit

Kit teaches soldering technique for both standard and SMD components. After using both sides of the board to practice, the student will build a fully functional insanity alarm (C6240) which operates on a 9V battery (not included). Skill Level 1.
C6758 \$9.25 ea.



Learn to Solder Robot Kit

Consists of 2 circuit boards and various electronic parts that you solder to the boards. The eyes, center LED and both hand LEDs flash brightly for weeks continuously. Simple to build! 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.). Skill Level 1.
C6845 \$9.95 ea.



Deluxe SMD Learn to Solder Kit

A great way to gain experience in soldering, identification and use of Surface Mount Device (SMD) Technology. Includes a practice section and a working LED flasher. Uses 9V battery (not included). Size of PC board: 2" x 3". Skill Level 2.
C6719 \$9.25 ea.



Wake Up Alarm Kit

Sensitive CDS cell operated kit. Sounds like a crazed bumble bee when activated. Operates 2"AA" batteries (not included). Skill Level 2.
C6481 \$7.50



Turn Over Alarm Kit

When this kit is turned over, a loud tone goes off. Prop it up against your door to protect your privacy! Uses 9V battery (not included). Skill Level 1.
C6378 \$6.95



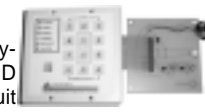
Secret Alarm Kit

Scare off anyone who opens your drawer. Arm switch and you have a couple of seconds to close the drawer. Uses 9V battery (not included). Skill Level 1.
C6455 \$8.50



Burglar Beware Kit

Realistic control panel with key-board houses a 2 transistor LED flashing and SCR control circuit that "appears" to be the real thing. Uses 9V battery (not included). Skill Level 1.
C6472 \$11.75



Water/Flood Alarm Kit

Emits a high frequency tone and lights a red LED when water comes in contact with its probe wires. Operates on one 9V battery (not included). Skill Level 1.
C6848 \$6.45



Burglar Alarm kit

Universal type burglar alarm kit. Operates on 6VDC. Has on-board horn and red LED "on" indicator. Can be used with either normally open or normally closed loops. Skill Level 1.
C6280 \$9.25



Window/Door Burglar Alarm Kit

Produces a loud pulsating electronic sound from the built in piezo speaker and it also flashes a bright red LED. A small magnet (included) needs to be attached (glued) to the movable window or door. Operates on a 9V battery (not included). Skill Level 2.
C6703 \$10.35



Professional Burglar Alarm Kit

Uses an IC circuit and has an exit time delay, an entrance delay, an automatic horn cut-off after a period of time, an automatic reset circuit, and 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). Size of PC board: 3 1/4" x 2 5/8". Skill Level 2.
C6785 \$14.25



Deluxe Burglar Alarm Kit

Features loud sound, adjustable time out period and unique pressure sensitive switch that you construct from materials provided and conceal under door mat. Even has relay contacts to power lights, etc. Battery operated on 6VDC (battery not included). Skill Level 2.
C6486 \$12.99



Light Sensitive Sound Generator

Creates a tone which varies depending on the amount of light. Fun beginner kit. Uses 9V battery (not included). Skill Level 1.
C4164 \$6.50



10 Note Sound Kit

Make robot sounds, computer effects, etc. Synthesizer features 10 adjustable notes, variable pitch and speed. Circuit features 3 ICs and 12 trimmer resistors. Uses 9V battery (not included). Skill Level 2.
C4722 \$15.75



Sci-Fi Sound Effects "Therimin"

Has 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 output. Operates from one 9V battery (not included). Skill Level 1
C6841 \$8.95



Music Maker Kit

Plays the tune "When The Saints Go Marching In" every time the button is pushed. Operates on one 9V battery (not included). Size of PC board: 2" x 2 3/4" Skill Level 2.
C6714 \$9.25



Megaphone Kit PA

Use as a small self contained system. Includes high gain electric microphone, IC audio amp, volume control and a 3" speaker. Operates on a 9V battery (not included). Skill Level 1.
C6746 \$9.25



Electronic Intercom Kit

Great for campers to cab, office, school, etc. Special noise reduction for clear sound. Uses 9V battery (not included). Skill Level 1.
C4743 \$12.99



General Purpose Amp Kit

Use as a full volume amplifier for computers or as an amplifier speaker output for various uses. Uses 9V battery (not included). Skill Level 1.
C6238 \$11.75



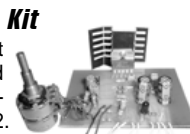
20 Watt RMS Mono Amp Kit

High power amp for various booster applications. Very low distortion, features short circuit and open circuit protection. Operates from 12V DC. Skill Level 2.
C6444 \$22.25



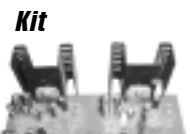
10W + 10W Stereo Amp Kit

Features one level control that sets level in both channels and red LED "on" indicator. Operates from 12VDC. Skill Level 2.
C6443 \$23.35



20W + 20W Stereo Amp Kit

Great booster for car stereo. Two separate amps on one board, each with their own level control. Operates on 12VDC. Skill Level 2.
C6442 \$29.85



80 Watt Car Stereo Booster Kit

Features two crystal clear 40Watt RMS channels for great sounding stereo sound! Operates from as low as 6VDC up to a maximum of 18VDC so it will work in any car. Power output with typical car input voltage of 14.4VDC is as follows: 40Watts per channel into a 2Ω speaker load or 25Watts per channel into a 4Ω speaker load. Maximum power occurs at 2 ohm impedance for each set of speakers. Features 2 level controls (one for each channel). Skill Level 2.
C6817 \$39.95



Fuzz Sound Kit

Produce sustained fuzz sounds with your electric guitar and this easy to build kit! Operates from 9V battery (not included). Skill Level 1.
C6239 \$11.65



8 Note Tunable Electronic Organ Kit

Tunable 8 note organ features IC oscillator and darlington transistor output stage to provide clear loud tones. Operates from 3V to 9VDC. Size of board: 2" x 5". Skill Level 1.
C4736 \$12.95



Portable Filtered Blacklight Kit

Uses long-wave 5 1/4" ultraviolet blacklight tube. Operates on either 6V lantern battery or 4D cell batteries (batteries and holder not included). Skill Level 2.
C6790 \$22.00



Deluxe Blacklight in a Case Kit

Features a sturdy and handsome gray custom case. An AC adapter is included so that the blacklight can be operated from standard 120 VAC. Size of case is about 7" x 3 1/4" x 2 1/4". For portable operation at night the kit can operate from 4 "C" cells (not included). Skill Level 2.
C6786 \$29.95



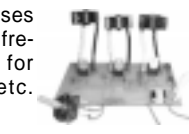
Single Channel Color Organ Kit

Easy to build kit causes lamps (up to 200 watts) to flash to the beat of the music. Operates from standard 120V AC.. Skill Level 2.
C4738 \$8.50



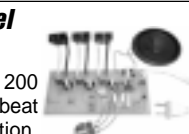
120VAC 3 Channel Color Organ Kit

Popular 3 channel organ causes light to flash to the beat and frequency of the music. Great for lamps, Christmas lights, etc. Skill Level 2.
C4530 \$15.75



Sound Activated 3 Channel Color Organ Kit

Make lights of your choice (up to 200 watts per channel) to flash to the beat of the music without any connection. Operates from standard 120V AC. Skill Level 2.
C6353 \$25.99



Shimmering Color Organ Kit

Portable unit provides colorful display in response to music. Uses 12 jumbo LEDs, 6 each red and yellow. Uses 9V battery (not included). Skill Level 2.
C6446 \$10.50



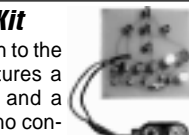
Exploding Star Color Organ Kit

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 25 total blinding output LEDs in red, green and yellow colors. Operates on one 9V battery (not included). Skill Level 3.
C6818 \$15.95



Bright Star 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! Operates on one 9V battery (not included). Skill Level 1.
C6815 \$6.49



Crazy Chirper Kit

CDS cell circuit keeps unit silent until the lights go out! That's when chirper is activated driving unsuspecting guests crazy. Uses 9V battery (not included). Skill Level 1.
C6470 \$6.25



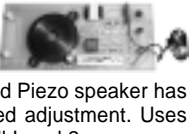
The Aggravator Kit

Place this kit in a hidden place in the 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 tone. Operates on one 9V battery (not included). Skill Level 1.
C6840 \$5.50



Irritator Kit

Produces irritating pulsating noise and irritating pulsating red light. Uses 2 red LEDs and Piezo speaker has slide control that allows speed adjustment. Uses 9V battery (not included). Skill Level 2.
C6485 \$11.75



TOWS Kit

Terribly Obnoxious Woodpecker Sound (TOWS) kit produces the sound of what a crazed woodpecker might sound like. Uses 9V battery (not included). Size of PC board: 2 3/4" x 1 3/8". Skill Level 1.
C6712 \$5.95



Jungle Bird Kit

Have fun producing the sound of canaries or exotic jungle birds. Features 2 controls to produce various bird chirps. Uses 9V battery (not included). Skill Level 1.
C6374 \$8.50



Phasor Sound and Light Kit

Produces sound and light you've seen in space movies. You can control frequency of the sound. Uses 9V battery (not included). Skill Level 1.
C6406 \$8.50



Mood Meter Kit

Features a colorful label that you glue onto the PC board and 10 bright colorful LEDs to indicate your mood. Blue LED= "Cool as a cucumber", Green LED= "Easy going", Yellow LED= "Warm hearted" and Red LED= "Smokin hot". Works off your skin resistance Uses one 9V battery (not included). Skill Level 2.
C6775 \$12.50



Fish Caller Kit

This kit produces a clicking sound which is said to attract fish! Some customers have reported excellent results, but who knows? Uses one 9V battery (not included). Skill Level 1.
C4566 \$4.75



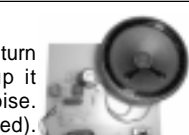
Insanity Alarm Kit

When you turn the lights off this kit emits a loud irritating tone. Turn lights on and it's silent. Uses 9V battery (not included). Skill Level 1.
C6240 \$6.50



GOT-YA Kit

You have to know the secret to turn alarm off. When picked up it makes a loud obnoxious noise. Uses 9V battery (not included). Skill Level 2.
C6464 \$11.75



Expression Flasher Kits

Each project kit features a custom designed full color label and a bright flashing red LED. These fun and easy-to-build kits make a perfect introduction to basic electronic circuit theory and transistor function. Operates one 9V battery (not included). Size of PC Board: 3 1/4" x 4 3/4". Skill Level 1. Each kit is sold separately.

C6766	No Bozo Blinker Kit	\$6.50
C6767	No Entry Kit	\$6.50
C6768	No Smoking Kit	\$6.50
C6769	Radiation Alert Kit	\$6.50
C6770	Biohazard Kit	\$6.50
C6771	Sleep Deprived Kit	\$6.50



LED Flasher Kit

This attention getter flashes a red and green LED. Easy to build. Uses 555 timer IC. Operates on 5 to 9V DC Skill Level 1.

C3287 \$4.75

Jumbo LED Flasher Kit

Simple to build kit uses a to flash a jumbo red LED. Makes a great first kit! Operates from one 9V battery (not included). Size of board: 1.25" x 1". Skill Level 1.

C4567 \$4.75

Tri-State LED Flasher Kit

This kit uses a trimmer control for continuous red or alternating red/green flashing from one LED! Great for beginners. Uses 9V battery (not included). Skill Level 1.

C4069 \$5.95

Super LED Flasher Kit

Perfect for robot projects, space models, warning lights, etc. Features 4 LEDs, 2 red, 1 yellow and 1 green that flash. Uses 9V battery (not included). Skill Level 2.

C4407 \$6.50

XXL Green LED Flasher Kit

Features 2 mammoth (10mm) green LEDs that alternately flash. Circuit uses 1 IC and operates from one 9V battery (not included). Skill Level 1.

C6791 \$5.25

Sequential LED Flasher Kit

Easy to build kit combines IC circuitry and 10 jumbo red LEDs, which continuously light sequentially from right to left. Uses 9V battery (not included). Skill Level 2.

C4431 \$10.25

Red Arrow Kit

Made up of 63 jumbo LEDs, the arrow lights sequentially and appears to move. Comes with 9V snap, but is adaptable between 5V and 12VDC. Skill Level 2.

C6398	Red LEDs	\$23.40
C6399	Green LEDs	\$25.95
C6400	Yellow LEDs	\$25.95

Fireworks Kit

Creates exploding "fireworks" display. Features 17 micro red LEDs, 7 green mini LEDs and 1 jumbo red LED. Uses 9V battery (not included). Skill Level 2.

C6454 \$9.25

Sports Car Flasher Kit

Features a full color sports car picture with yellow lights and red tail lights. Unique PC board allows most components to be mounted on back. Uses two transistor circuitry. Operates on 9V battery (not included). Skill Level 1.

C6757 \$6.50

Flashing Stop Sign Kit

This 5" red and white stop sign features 22 tiny red LEDs which flash at a variable rate you can control. Uses 9V battery (not included). Skill Level 2.

C6788 \$12.95

3D Shimmering Pyramid Kit

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". Has a hidden control to vary the effect from an overall shimmering effect to a sequencing effect. Uses one 9V battery (not included). Skill Level 3.

(Please do not attempt this kit if you have never built a kit).

C6437 \$32.50

Mysterious 3D Pyramid Kit

This mysterious and amazing kit features 47 bright LEDs that flash at a rate that you can adjust. Uses one 9V battery (not included). The pyramid is about 3" high and has a 4 1/2" base. Skill Level 2.

C6792	Red LEDs	\$16.85
C6793	Yellow LEDs	\$16.85
C6794	Green LEDs	\$16.85
C6795	Blue LEDs	\$49.95

Atom Expander Kit

This attention getter uses 98 red LEDs to produce "exploding atom" effect. For the experienced kit builder. Uses 9V battery (not included). Skill Level 3.

C6373 \$35.25

Fascination Star Kit

Produces a "star" visual effect using 25 LEDs and IC circuitry. Uses 9V battery (not included). Skill Level 3.

C4432 \$16.95

Flashing Triangle Kit

Triangle shaped LED flasher consists of 2 separate flasher groups, one flashing at a faster rate than the other. Features 8 jumbo red LEDs. Uses 9V battery (not included). Skill Level 1.

C6440 \$7.25

Giant LED Traffic Light Kit

Uses 3 giant 10mm LEDs. Just like a real traffic light, this smaller version slowly sequences through green, yellow and red lights. Uses one 9V battery (not included). Size of PC board is 3 1/4" L x 1 15/16" W. Skill Level 1.

C6810 \$6.95

Super LED Chaser Kit

Three groups of 2 LEDs light up sequentially to provide a stunning display. Uses one 9V battery (not included) and comes in your choice of colors. Skill Level 2.

C6825	Red LEDs	\$3.95
C6826	Green LEDs	\$3.95
C6827	Yellow LEDs	\$3.95
C6828	Super Bright Clear Red LEDs	\$4.50
C6829	Super Bright Clear Green LEDs	\$4.50

7 Speed Perpetual Blinker Kit

Kit blinks three powerful clear LED's, with seven different speeds, controlled by an 8 position DIP switch. Operates on 2 AA batteries (not included). Skill Level 1.

C6744 \$5.85

Coin Tosser / Decision Maker Kit

Features one red LED and a green LED that flash at high frequency when you touch sensor wires. One LED remains on when finger is removed. Uses 9V battery (not included). Skill Level 1.

C6354 \$4.75

Lie Detector Kit

Fun "poor man's lie detector"! Pitched tone varies if you are relaxed or nervous. Uses 9V battery (not included). Skill Level 1.

C4657 \$6.50

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. Uses one 9V battery (not included). Skill Level 1.

C4516 \$4.95

Super Time Reaction Kit

This fun kit tests your reaction time. Your reaction rating is indicated by labeled LEDs. Has an adjustable speed control. Uses 9V battery (not included). Size of PC board: 3 1/4" x 4". Skill Level 2.

C6716 \$11.25

Macho Meter Kit

5 LEDs flash when your fingers are on touch plate. Remove your fingers and your "rating" is indicated by LED remaining on. Uses 9V battery (not included). Skill Level 2.

C6362 \$11.50

The Tingler Kit

Are you a "Hero" or a "Wimp"? This kit will give you a chance to prove it! When you place your fingers on the touchpads, you'll then receive a "tingling" sensation from the varying intensity electrical voltage which you can adjust from "Wimp" up to "Hero." Uses one 9V battery (not included). Skill Level 1.

C6740 \$11.75

IC Decision Maker Kit

When you depress 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 and operates on one 9V battery (not included). Skill Level 1. C6701 \$4.95 ea.



Deluxe Decision Maker Kit

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. Uses one 9V battery (not included). Skill Level 2. C6780 \$8.95 ea.



Attitude Selector Kit

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. Uses one 9V battery (not included). Skill Level 1. C6776 \$6.50 ea.



Wheel of Fortune Kit

Push the button and 10 red LEDs appear to spin around wheel, as speaker ticking sound in sync. Release button to see what number the "ball" lands on. Uses 9V battery (not included). Skill Level 3. C3806 \$14.50



Rolling Dice Kit

Push the button on this kit and 6 bright red dice "roll" rapidly. Release the button and one of the six standard dice patterns stays on indicating your number. Uses 9V battery (not included). Skill Level 1. C6412 \$16.95 ea.



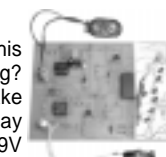
Digital Racquetball Game Kit

This game is like playing racquetball against a computer opponent. The ball is represented by LEDs, and you have to "hi" the ball by pressing a button. Includes an adjustable speed control so that beginners will enjoy playing just as much as the "experts". Uses one 9V battery (not included). Skill Level 2. C6726 \$18.15 ea.



Cliff Hanger Game Kit

Can you make it to the top of this electronic mountain without falling? A fun game of timing and skill make Cliff Hanger as much fun to play as it is to build. Operates from 9V battery (not included). Skill Level 2. C6723 \$14.50 ea.



Alien Attack Game Kit

Aliens are attacking, and it is up to you to intercept their bombs before they reach the ground. A great game of skill to keep you on your toes! Operates from 9V battery (not included). Skill Level 3. C6727 \$18.25 ea.



Plant Soil Monitor Kit

Two bright LEDs help to determine if your plants need watering. Adjustable to moisture level desired. Uses 9V battery (not included). Skill Level 1. C4744 \$5.95 ea.



Phone Hold with Music Kit

This handy kit not only puts your caller on hold, but plays music to entertain the caller. Comes complete with AC adaptor. Size of PC board: 3 3/8" x 3". Skill Level 2. C6718 \$16.95 ea.



0-9VDC Variable Power Supply Kit

Perfect for powering radios, small tape players or various electronic projects. Control sets voltage. Operates on 120VAC. Skill Level 2. C6438 \$10.50 ea.



0-12Volt Variable Power Supply Kit

Ideal for powering various electronic projects. Features a circuit protecting fuse, full-wave rectification, a LED power indicator, On/ Off switch, and a potentiometer. Outputs a maximum current of 125mA@12V and 200mA@10V or less. Skill Level 2. C6724 \$10.75 ea.



1 AMP Variable Power Supply Kit

Features red, yellow, and green LEDs that glow at different output voltages from 0-12V. Great for powering projects, calculators, radios, tape recorders. Operates on 120VAC. Skill Level 2. C6789 \$23.50



Battery Tester Kit

Tests all types of common batteries. Features 5 calibrated trim pots to pre-set 5 types frequently used and has red and green LEDs. Uses 9V battery (not included). Skill Level 1. C6414 \$11.75 ea.



Transistor Tester Kit

Use this kit to test both NPN and PNP type transistors. Useful for identifying unmarked transistors. Uses 9V battery (not included). Skill Level 2. C6448 \$7.85 ea.



Continuity Tester Kit

A must for anyone working with electronic circuits. Traces shorted contacts, circuit path continuity, etc. Uses 9V battery (not included). Skill Level 1. C6385 \$4.75 ea.



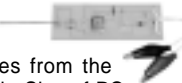
Super Continuity Tester Kit

Uses a special Darlington amplifier circuit to allow you to detect even AC fields, negative ions or static charges. Operates from one 9V battery (not included). Skill Level 1. C6787 \$5.15 ea.



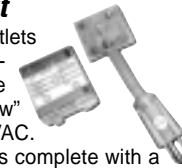
CMOS/TTL Logic Probe Kit

This logic probe was designed to operate with voltages between 5 and 20 volts. Operates from the power of the circuit being tested. Size of PC board: 3 5/8" x 1 1/4". Skill Level 1. C6722 \$7.85 ea.



3 Slot AC Outlet Tester Kit

This very useful tester checks outlets for 6 different faults or safety hazard conditions and displays the results. Uses bright "orange glow" neon lamps Operates from 120VAC. Size of PC board 2" x 2". Comes complete with a clear plastic box and label Skill Level 2. C6842 \$7.80 ea.



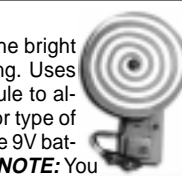
Electronic Cricket Kit

This electronic cricket starts "chirping" every time it gets dark. Of course, if you turn on the lights to look for the "cricket" it becomes silent again. Loads of fun. Uses 9V battery (not included). Skill Level 1. C6707 \$6.50 ea.



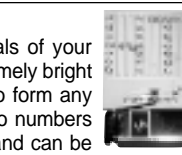
IR Controlled Spinner Kit

Aim your remote at this kit and the bright red hypnotic wheel starts rotating. Uses a motor and a sensitive IR module to allow it to operate with any brand or type of IR remote control made. Uses one 9V battery (not included). Skill Level 1. NOTE: You provide the TV or VCR IR remote control. C6778 \$6.50 ea.



SMD Flashing Initials Kit

Very unique kit flashes two initials of your choice on and off. Features extremely bright red 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). C6861 \$12.95 ea.



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. C6772 \$6.45 ea.



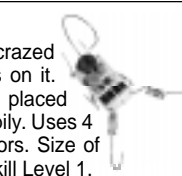
44 Second Kit

Press the arming button and the kit gives you about 44 seconds (give or take) to get away before an electronic tone sounds and the number 44 lights up on the bright red display! Uses one 9V battery (not included). Skill Level 1. C6730 \$6.45 ea.



SolarBug Kit

Produces a sound similar to a crazed cricket whenever the sun shines on it. Your tiny SolarBug can even be placed under a lamp and will "chirp" happily. Uses 4 tiny solar electric power generators. Size of PC board is about 2" x 15/16". Skill Level 1. C6843 \$9.95 ea.



Quiz Master Kit

This kit is the perfect answer to scholastic challenges, quiz olympiads, quiz answer bowls and any question/answer contest. Features



8 separate answer buttons and a master control board with 4 Red Team and 4 Green Team LED lights. The first contestant to answer after the question is asked causes 3 events to occur: A loud tone sounds, all other contestants are locked out, the contestant's indicator LED lights up on the Master Control Board to let the teacher know who to call on. The control board features a selectable time out tone that can be adjusted to any period of time from 3 seconds to 15 seconds. This tone is totally separate from the answer tone. With The Quiz Master you will have perfect judging every time—it never makes a mistake in choosing which contestant was first. Operates from 8 AA (not included). Overall size of board: 3.875" x 9.625" Complete with all parts, PC board, 100 feet of 2 conductor wire and instructions. Skill Level 3.
C6419 \$89.95 ea.

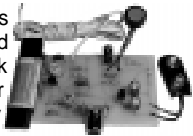
FM Wireless Microphone Kit

Tiny FM wireless microphone transmits every sound in a room to any FM radio. Use it as a baby monitor, one-way intercom, etc. Size of PC board: 1 13/16" x 1". Operates from one 9V battery (not included). Skill Level 2.
C6715 \$7.85 ea.



AM Microphone Broadcast Station Kit

Be a DJ on any radio. Kit contains high gain electric microphone and two transistors. Also has a RCA jack to connect to your tape recorder or CD player. Operates on 9V battery (not included). Skill Level 1.
C6752 \$10.50 ea.



Metal Locator Kit

Transistorized circuit uses sensitive circuit and coil. Can detect up to 5" away depending on size of object. The metal locator detects metal by a shift in tone which is transmitted to a standard portable AM radio (you supply). Operates from 9V battery (not included). Skill Level 1.
C6742 \$5.75 ea.



Manual Siren Kit

Produces loud upward and downward wail of a "police" siren as push-button is depressed. Good for sound effects. Uses 9V battery (not included). Skill Level 1.
C6382 \$7.80 ea.



Super Siren Kit

Loud irritating siren features one special IC that contains 3 transistors and a high gain power amp. Uses 9V battery (not included). Skill Level 2.
C6474 \$10.50 ea.



Secret Squaler Kit

This is a strange and amusing kit. It emits a strange high pitched squeal once every minute. It is pretty difficult to find because it only squeals for a second every minute. Uses one 9V battery (not included). Skill Level 1.
C6379 \$6.50 ea.



Smallest Variable Strobelight Kit

Features an on board control to adjust the flash rate from about 35 to 240 per minute and it operates from a 9V battery (not included). Requires only about 60-65ma to operate. Size of PC board is 1 13/16" x 1 1/2". Skill Level 2.
C6844 \$12.95 ea.



9V DC Strobe Warning Flasher Kit

Compact strobe flasher produces brilliant flashes of white light. Great safety device. Skill Level 2.
C5175 \$16.95 ea.



12VDC High Power Strobe Kit

Brilliant xenon horseshoe strobe tube flashes at a rate you control, from 60 to 350 times per minute. Operates from 12V DC. Skill Level 2.
C6460 \$28.75 ea.



Dual Strobe Light Kit

Two straight xenon strobe tubes alternately flash at a fixed rate of about 120 per minute. Operates from standard 120V AC. Skill Level 2.
C4622 \$15.75 ea.



120VAC Strobe Light Kit

Variable speed, 120 to 200 flashes per minute. Very popular kit. Great for parties, dances, etc. Operates on 120V AC. Skill Level 2.
C3071 \$14.30 ea.



120VAC Brilliant Strobe Kit

Popular kit features horseshoe shaped xenon flashtube. Variable rate from about 120 to 300 flashes per minute. Skill Level 2.
C4823 \$18.25 ea.



120VAC High Power Strobe Light Kit

Deluxe strobe light kit has control to vary flash rate from 60 to 300 flashes per minute. Uses horseshoe strobe tube and reflector. Operates from standard 120V AC. Skill Level 2.
C4162 \$23.50 ea.



Laser Pointer Switch Kit

Control slide projectors, lights, sound sources, etc. during a presentation. Simply point your laser pointer at the large CDS cell and the kit responds by closing a set of relay contacts rated 1Amp at 120VAC. To turn off the item just aim the beam at the CDS cell again. Operates from an AC adapter (included). Skill Level 2.
C6733 \$19.50 ea.



Laser Target Kit

Shine any laser pointer at this kit and a bright red star flashes when you hit it. Works at great range. Operates on one 9V battery (not included). Skill Level 1.
C6739 \$7.25 ea.



Fantastic Simulated Laser Kit

Emits a small red circle about 10 feet away in a dark room. Great for safely simulating lasers in science projects. Uses 9V battery (not included). Skill Level 1.
C6394 \$9.25 ea.



Infrared Transmitter Kit

Make your own "phasor gun" with this kit. Shoots high power IR pulse when button is pushed. Only works with C6392 kit (above below). Uses 9V battery (not included). Skill Level 2.
C6393 \$8.99 ea.



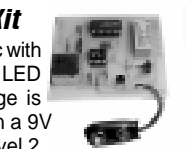
Infrared Target Kit

Red diamond pattern made up of 4 red LEDs flashes when hit by infrared beam. Super sensitive - works with all IR guns available. Great for tag games. Uses 9V battery (not included). Skill Level 2.
C6392 \$12.99 ea.



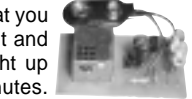
IR Genie On/Off Switch Kit

Control lights, music, radios, etc with any TV, VCR or IR remote. Red LED indicator, two IC circuit. Range is from 18 ft to 28 ft. Operates on a 9V battery (not included). Skill Level 2.
C6748 \$12.95 ea.



Remote Controlled Nightlight Kit

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. Uses one 9V battery (not included). Skill Level 1.
C6777 \$6.50 ea.



Sound Wizard On/Off Switch Kit

Control lights music alarms etc with a clap of your hands. Contacts remain closed until you clap again. Utilizes a 3 IC circuit with LED indicator and DPDT 1 AMP Relay contacts operates on 9V battery (not included). Skill Level 2.
C6754 \$12.95 ea.



Magic Christmas Tree Kit

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. Size of PC board: 2 1/2" x 2 5/8". Includes color label which you glue to the PC board. Skill Level 1.
C6773 \$4.95 ea.



Flashing Christmas Trees Kit

Red and green LED Christmas trees flash alternately in this colorful kit. Operates on 9V battery (not included). Size of PC board: 3 5/8" x 1 7/8". Skill Level 2.
C6711 \$9.25 ea.



Heart Throb Kit

How fast will your heart throb? This kit is made up of 36 jumbo red LEDs in the shape of a heart. It responds to your skin resistance through touch pads. Uses 9V battery (not included). Skill Level 2.
C6410 \$12.99 ea.



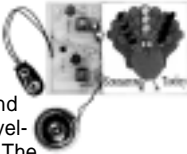
The Haunted Pumpkin Kit

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. Uses one 9V battery (not included). Skill Level 2.
C6783 \$8.95 ea.



Screaming Turkey Kit

Colorful kit makes a great addition to any Thanksgiving celebration. Produces a screaming turkey sound and the colorful red, green, and yellow LEDs light up and flash. The 2 IC circuit features 2 separate controls to adjust the sound and flashing speed. Uses one 9V battery (not included). Skill Level 2. C6784 \$9.50 ea.



Monkey Surprise Kit

Simply place a drop of water on the monkey's face, turn the arming switch to "on" and hide the Monkey Surprise Kit in the room. The kit will remain silent until the water on the Monkey's face evaporates. When it does, the kit will go crazy emitting a sound that is a mix between a crazed jungle bird and an irritated monkey. Operates on a 9V battery (not included). Skill Level 1. C6877 \$5.95 ea.



Secret Water Drip Kit

Anyone trying to get a good night's sleep when you hide this kit in the bathroom will have a tough time. When the lights go off it emits a realistic "drip drip" sound. Of course, when the victim turns the light on to check the faucet, the kit becomes quiet and they will find the faucet isn't dripping. When the light is turned off, the drip sound begins again. A fun and easy to build kit. Size of PC board: 2.2" x 1.7". Operates on one 9V battery (not included). Features 2 controls to adjust drip sound and rate. Skill Level 1. C6892 \$4.95 ea.



Night Popper Learn to Solder Kit

Here's our newest and strangest robot. The Night Popper waits until it gets dark and then it starts its random exploring. While it explores it sets off a brilliant almost firework looking display from its 3 white lamps and emits a crackling popping sound from its on board piezo speaker. Features 2 small DC motors, 2 photodarlington transistors, a relay/CDS cell circuit and 4 drive transistors. The special bonus with this robot is that you get 2 snap off PC boards with 21 components that you solder in before building the robot. By doing this, you can gain ample soldering experience before building the Night Popper. Great learning tool and if you already know how to solder, just snap off the boards and build the Night Popper only. Robot itself is about 3 1/8" square. With the learn to solder boards attached the PC board is 4" square. Requires 2 AA batteries and 1 9V battery (not included). With all parts and instructions. Build this and you will amaze, entertain and mystify your cats, dogs and friends! Skill Level 1. Go to <http://www.goldmine-elec.com/video.htm> for a color video of this kit in action! G13696 \$17.95 ea.



Light Spider Robot Kit

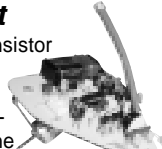
This amazing new robot uses its electronic brain to follow or find a light source (such as a standard flashlight). Using its drive motors, the Light Spider will scoot across any smooth hard surface (such as a linoleum floor or a wooden table top) looking for light. While searching, a LED array on the front of the robot lights up and blinks. You will be amazed at the Light Spider's ability to follow light. 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 3.75" x 2.5". Skill Level 2. C6886 \$11.95 ea.



One of Our
Most Popular
Kits!

CE2S Soundseeker Robot Kit

The CE2S uses an IC and 7 transistor circuits with adjustable controls for motor activation times and sound sensitivity. Uses a sensitive microphone which constantly "sniffs" the area for sound. When it detects it, the colorful LEDs at the front of the robot flash and the robot stops for a second and then changes direction. Operates from a 9V battery (not included). Designed to travel on any smooth surface (not carpet or pavement). Size approximately 4.9" L x 4" W. Skill Level 3. C6882 \$32.95 ea.



Mr. Edgey Robot Kit

Mr. Edgey robot kit uses his "brain" to detect the edge of the surface he is traveling on. He uses a vibrating motor for motion and has an LED sensor at the front to detect "the edge". As soon as the front of Mr. Edgey passes the edge of a surface, the motor shuts down and the LED stays on indicating "the edge". Have contests with other "edge" robots to see which one gets to the edge first, or which one is not adjusted properly and falls off the side first. Robot comes with built-in rechargeable batteries and wall adapter AC charger (no batteries to buy). Size of PC board: 3" x 2" (triangle). Skill Level 2. C6896 \$12.95 ea.



Alien Warbot Robot Kit

Activated by IR energy, this kit remains motionless until it detects IR energy. It will come to life when you press random buttons on any TV/VCR remote or by our IR Activator Robot Kit (to the right). When activated, it vibrates/scoots on any smooth surface and also flashes 7 bright LEDs. Movement stops as soon as the source of IR energy stops. Operates from one 9V battery (not included). Round PC board is 2 3/4" in Dia. Skill Level 2. C6870 \$14.95 ea.



IR Activator Robot Kit

Our special IR Activator Kit vibrates and scoots while flashing 1 red LED and 6 IR LEDs. If placed near an Alien Warbot, the IR Activator Robot will cause the Warbot to immediately come to life and either move towards it to attack or away from it to run! This kit is not activated by IR energy, in fact its job is to produce crystal controlled IR energy to activate IR sensitive robots. Operates from one 9V battery (not included). PC board is 2 3/4" Dia. Skill Level 2. C6871 \$15.95 ea.



Deluxe Ultrasonic Sniffer Kit

Did you ever wonder about the limitation of human hearing? At best, we can only hear from about 20Hz up to 20,000Hz, and most of us can't even hear sounds past 15,000Hz. Our Deluxe Ultrasonic Sniffer Kit uses a frequency division 4 IC circuit to convert all ultrasonic frequencies up to 150kHz to an audible frequency we can hear. Now you can hear what a dog whistle sounds like. Shake several coins or keys and you'll be amazed at the sound! Early TV remotes and today's digital distance measuring devices use ultrasonic frequencies. It can even be used to check for high pressure air leaks and can be used to listen to some mammals that produce ultrasonic sounds. This deluxe kit comes complete with a case with speaker and operates on one 9V battery (not included). Size of case: 4.8" x 3.3" x 1.2". Skill Level 2. C6897 \$24.95 ea.



Deluxe Bat Detector Kit

Bats use echolocation which allow them to navigate, detect objects, and find their prey in total darkness. This "echolocation" consists of ultrasonic signals (signals above the range of human hearing that the bats send and receive like radar). Our amazing Deluxe Bat Detector Kit uses a 4 IC frequency division circuit to convert these ultrasonic frequencies to audio frequencies (in the range of our hearing). Not only does our Deluxe Bat Detector Kit have a built-in speaker to produce the sounds, but it also flashes a bright green LED that is in sync with the sound. Our bat detector works with all bats and operates on one 9V battery (not included). Complete with attractive 3.5" x 2.5" x 1.4" case. Skill Level 2. C6899 \$29.95 ea.



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. C6888 \$26.95 ea.



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). Skill Level 1. C6889 \$10.95 ea.



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 $\pm 1\text{VDC}$ to $\pm 15\text{VDC}$ @ 400ma and $+1\text{V}$ 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 & instructions. Skill level 2.

C6895 \$24.95 ea.



Gravity Detector? Kit

This kit detects gravity? Well, not really- But 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 that 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 on one 9V battery (not included). Size of PC board: 4" x 2". Skill Level 2.

C6894 \$9.95 ea.



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). Features SCR and CDS circuitry with 3 bright lamps and a piezoelectric speaker. Easy to build and it creates a spectacular display. Size of PC board: 2.9" x 2.4". Operates on 2 "AA" batteries (not included). Skill Level 1.

C6893 \$6.95 ea.



Binary Counter (Logic Basics) Kit

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". The counter increases by one 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 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. Operates from 9V battery (not included). Size of circuit board: 3.6" x 3". Skill Level 3.

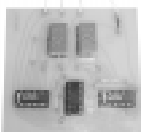
C6359 \$11.95 ea.



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 to display the decimal number equivalent of the binary number shown on the Binary Counter Kit. Features IC circuitry and two bright 7 segment LED displays. Operates from one 9V battery (not included). Size of board: 3" x 3.25". Skill Level 3.

C6360 \$12.95 ea.



"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. Very Bright! Great for 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. Skill Level 1.

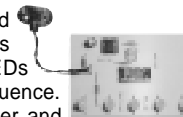
C6891 \$3.99 ea.



Magic Color LED Sequencer Kit

Produces brilliant moving "red dots" at first. After the 5 LEDs sequence red, the same LEDs produce 5 "green dots" in sequence. The pattern repeats itself over and over. Features speed control. Operates from one 9V battery (not included). Skill Level 2.

C6863 \$7.95 ea.



Telephone Ring Flasher Kit

Here's a useful kit to prevent missed phone calls when the TV or stereo is a little too loud. Simply plug the modular phone cord on this kit into any phone jack. Now each time any phone in the house rings a brilliant red light from 5 red LEDs will flash. Operates for months on one 9V battery (not included). Comes with all parts, PC board and instructions. Size of board 2 1/2" x 1 1/2". Skill Level 2.

C6862 \$7.95 ea.



Kits – Labs & Courses

25 in 1 Deluxe Magnetism, Motors & DC Curcuits 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 course 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.

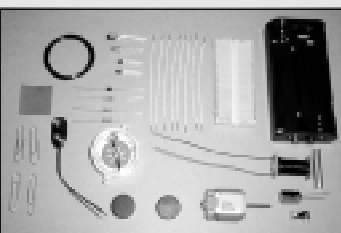
This breadboard kit requires no soldering and is battery operated for safety. This course doesn't require any previous experience or knowledge. The instructor does not need to be involved if he or she chooses not to and the Lab will amaze and provide interesting experiments to motivate your students.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

The 25 in 1 Deluxe Magnetic Lab covers some of the same concepts that are presented in our 33 in 1 Electronic Exploration Kit, 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 Kit 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.

C6819 \$22.95 ea.



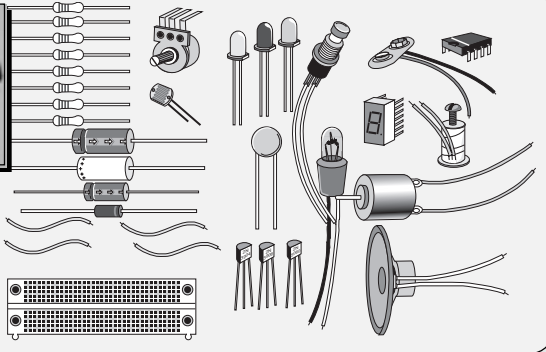
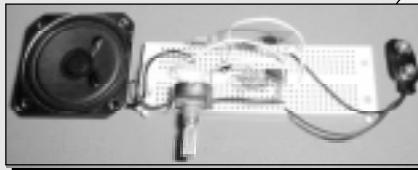
Check out the experiments / learning activities in the 25 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

- 1- Permanent Magnets
- 2- Electromagnets
- 3- Compass Operation
- 4- Galvanometer
- 5- The Basic Electrical Circuit
- 6- Resistors / Color Code
- 7- Light a LED
- 8- The Diode
- 9- Series Circuits
- 10- Parallel Circuits
- 11- Series / Parallel Circuits
- 12- Current Flow in Circuits
- 13- Ohm's Law
- 14- Switch Action
- 15- Make a Simple Motor
- 16- Practical Motor
- 17- Complex Circuit
- 18- Insulator or Conductor
- 19- Flashing LEDs
- 20- The Capacitor
- 21- Electronic Coin Flipper
- 22- Swinging Compass
- 23- Stop / Go Motor with Indicators
- 24- Small Electricity Generator
- 25- Storage and Use of Electricity



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

33 in 1 Deluxe Electronic Exploration Kit



This exciting new breadboard kit requires no soldering or previous electronic experience. The kit enables anyone 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 kit is meant to be used over and over again to save money. Not only is this kit complete with everything you need, but also the instruction booklet is designed so that even younger hobbyists or students can understand the concepts.

The experimenter 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 experimenter are fun to build electronic circuits that have a parts list, schematic and parts placement drawing. These give an ample introduction to electronic components and circuitry.

Breadboard type kits have been around for years, however, ours 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** kit. There is now no need to have several different breadboard kits. One kit covers almost all aspects of basic electronic concepts and components.

Not only does our *33 in 1 Deluxe Electronic Exploration Kit* introduce various electronic educational concepts but it is also a fun and interesting motivational activity for anyone. Complete with all electronic parts, breadboard and instruction booklet. Requires one 9V battery (not included).

**33-IN-1 DELUXE
ELECTRONIC
EXPLORATION KIT
C6709 \$29.95**

Check out the experiments / learning activities in the 33 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

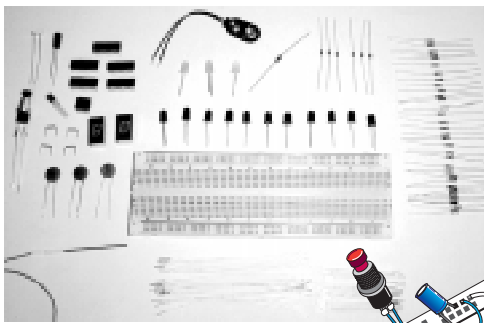
INSTRUCTIONAL EXPERIMENTS:

- 1- Resistor Color Code
- 2- Ohm's Law & The Basic Electronic Circuit
- 3- Parallel Circuit with Lamp
- 4- Diode Action
- 5- Light Emitting Diodes
- 6- Electromagnetism
- 7- Capacitance
- 8- Transistor Switch
- 9- Variable Resistor LED Dimmer
- 10- DC Motor Experiment
- 11- Transistor Oscillator

ELECTRONIC CONSTRUCTION ACTIVITIES:

- 12- 7 Segment Display Circuit
- 13- SCR Latching Switch
- 14- Conductor Identifier
- 15- 2 Transistor Audio Oscillator
- 16- Continuity Tester
- 17- Multivibrator LED Blinker
- 18- Insanity Alarm
- 19- Light Controlled Bird
- 20- Code Practice Oscillator
- 21- Magic LED Light
- 22- Water Alarm
- 23- Ticking Clock Sound
- 24- Phasor Ray Sound Generator
- 25- Emergency Siren
- 26- Adjustable Blinking Light & Sound
- 27- Timer with LED
- 28- Electronic Motor Speed Control
- 29- IC LED Flasher
- 30- IC Adjustable Frequency Sound Generator
- 31- IC Light Activated Wake Up Alarm
- 32- IC Two Color LED Flasher
- 33- IC Burglar Alarm

35 in 1 Deluxe Digital Lab Exploration Kit



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 kit 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 Lab Exploration Kit* is self-contained and ready-to-use!

**35-IN-1 DELUXE DIGITAL LAB
EXPLORATION KIT
C6721 \$45.50**

Check out the experiments / learning activities in the 35 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

Tips On Building The Experiments

The Universal Solderless Breadboard

Lesson 1: Introduction To Digital Electronics

Lesson 2: Components, Gates and IC's

Lesson 3: Combinational & Sequential Circuits, Boolean Algebra And Timing Diagrams

Lesson 4: The Binary Numbering System

Lesson 5: Troubleshooting Techniques

Exp. 1: The Logic Probe: "The Tool"

Exp. 2: The YES Logic Circuit: "The Buffer"

Exp. 3: The NOT Logic Circuit: "The Inverter"

Exp. 4: The AND Logic Gate

Exp. 5: The OR Logic Gate

Exp. 6: The NAND Logic Gate

Exp. 7: The NOR Logic Gate

Exp. 8: Building The Six Basic Logic Gates Using Only NOR Gates

Exp. 9: "The Clock" - Astable Multivibrator

Exp. 10: The 555 Timer IC

Exp. 11: "The Timer" - Monostable Multivibrator

Exp. 12: "The Flip-Flop" - Bistable Multivibrator

Exp. 13: Reaction Challenge Game

Exp. 14: The Binary Counter/Divider

Exp. 15: Manual Binary Counter

Exp. 16: The BCD Counter (Decade Counter)

Exp. 17: Touch Activated ON/OFF Switch

Exp. 18: Seven Segment Display Decoder

Exp. 19: "0 to 9" Counter With Display

Exp. 20: Lucky Number Generator

Exp. 21: Electronic Die Game

Exp. 22: 0 To 9 Photoelectric Counter

Exp. 23: Sequential LED Flasher

Exp. 24: Triple Answer Decision Maker

Exp. 25: "10 by 10" Reaction Game

Exp. 26: Brightness Control Touch Switch

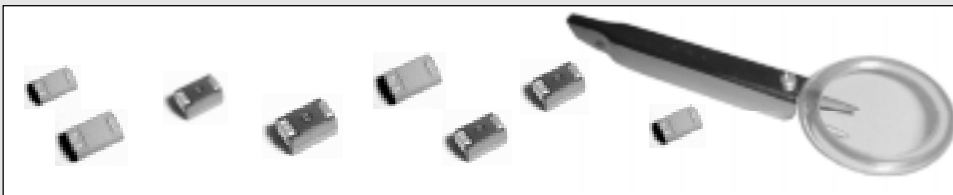
Exp. 27: Macho Meter

Exp. 28: "Go for the Gold" Game

Exp. 29: 0 To 99 Counter With Display

Exp. 30: 0 To 99 Photoelectric Counter

Intro to Surface Mount Technology



This Chaney Electronics Training Course will introduce you 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 course, you will learn concepts about surface mount technology (SMT) such as: the different types of surface mount 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. You will gain experience identifying, soldering and using surface mount devices by physically building an actual working surface mount technology project.

This course is the perfect introduction to SMT and does not require any previous knowledge of this topic. The course 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.

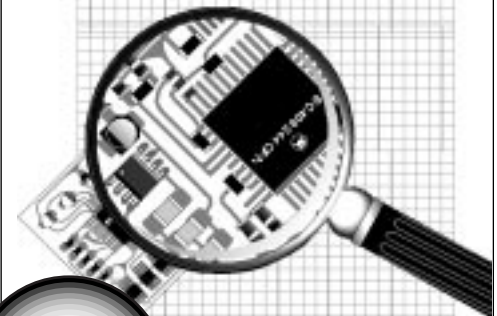
We are offering this training course at an exceptional value. So please don't delay, order your Introduction to SMT Course today!

Introduction to Surface Mount Technology Training Course with Experimentation and Project Building comes with detailed instruction manual, identification parts (both SMD and Standard), one "Deluxe SMD Learn to Solder Kit," and a magnifier with tweezers (pictured above).

C6725 \$28.95

Chaney Electronics

Introduction to Surface Mount Technology



Surface Mount Technology is Here!

Knobs

Set Screw Lever Knob

Black bakelite knob features set screw for mounting to any standard 1/4" dia. shaft. Lever type knob as found in older test equipment. New.

G13504 \$2.00 ea.



0-10 Push On Instrument Knob

Black knob pushes onto "knurled" type 1/4" shaft and features the numbers 0-10 in white. These are found on many guitar amplifiers, instruments, appliances, etc. Overall size about 1.5"Dia.

G14804 59¢ ea.



Raytheon Military Precision Made Knobs (set screw types)

These were made by Raytheon and other high quality companies for use in military equipment. They are some of the best quality knobs you can purchase. Each has at least one set screw and some have two. All are brand new and 100% prime in every detail. We have types for 1/8" shafts and 1/4" shafts. All have metal interior sleeves for long life with plastic outer surfaces.

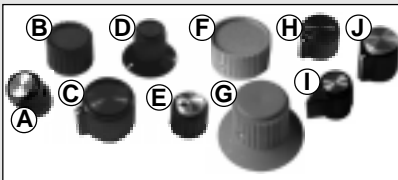


Fig.	Shaft	Description	Stock	Price
A	1/4"	Black/Silver	G14061	2/\$1.00
B	1/4"	Black	G14473	\$0.99
C	1/8"	Black w/white pointer	G14474	\$0.99
D	1/8"	Black pointer	G14475	\$0.99
E	1/8"	Black/Silver	G14476	\$0.99
F	1/4"	Gray	G14477	\$0.99
G	1/4"	Red	G14478	\$0.99
H	1/4"	Black w/White pointer	G14480	\$0.99
I	1/4"	Black/Silver	G14481	\$0.99
J	1/4"	Black/Silver, White pointer	G14482	\$0.99

Deluxe Raytheon Control Knob

Type TSA125-2WL-2 Raytheon control knob was precision made for military. Features stylish black base, brushed aluminum inset on top and white pointer. Set screw type for 1/4" shafts. Overall size about 1.17"Dia x .65"Thick. New in manufacture bags.

G15673 99¢ ea.



Precision Black and Silver Set Screw Knob

Nice quality heavy duty precision made knob for 1/4" shaft features 2 set screws to lock onto shaft. Has white pointer and aluminum insert. Size about 1.36"Dia. x .85" Tall. Made for U.S. government. Brand new!

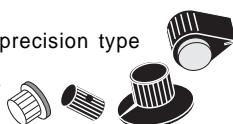
G15349 \$1.49 ea.



Deluxe Knob Assortment

These are 7 of the higher quality military and precision type knobs. All have set screw. Some are for the 2nd control on a dual control (has hole all the way through it). For 1/4" and 1/8" shafts.

G5303 \$5.00



High Quality Knob Assortment

Great assortment of four high quality set screw knobs some with brushed aluminum accents. All are black in color and fit standard 1/4" shafts. Brand new and very nice. Knob assortments will vary from picture as there are many types!

G5086 \$2.00



Standard Flashlight Bulb

Small clear glass round flashlight bulb operates from 1.5V and has a screw base. Perfect for replacement.
G3811 3/\$1.00



1.5V Magnifying Lamp for Penlights

This small "screw in" base lamp features a small magnifying lens built into top. Operates on 1.5VDC (one "AA" or "AAA" battery) only. Do not exceed or it will burn out.
G15174 99¢ ea.



Flashing Lamp

Small screw in type base lamp features operation from 2.5V up to 3VDC and flashes brightly. Made by GE, type 401X.
G14305 3/99¢



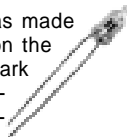
Grain of Wheat Lamp

Operates from 9V up to 18V. Very tiny with 1 inch long wire leads. These are very reliable micro incandescent lamps that are used extensively in many types of electronic equipment.
G15581 4/99¢



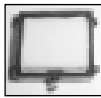
Spark Gap Neon Tube

Small neon tube with long leads was made by NHK of Japan and has a label on the box that reads "GD412-200V±20% Spark Gap Neon". We are not sure of the application but we suspect the gas inside ionizes at 200 volts.
G14354 3/99¢



Tiny But Bright Rectangular Fluorescent Lamp

Bright white fluorescent lamp is only .85"L x .78"H (excluding glass seal tip) x .18" Thick. This lights up a nice bright white when connected to a high voltage. Its original use was for backlighting a small LCD display and it probably was a very costly item. Lamp has peel off backing to expose 2 adhesive pads on back for "press on" mounting, however this should be used in conjunction with the terminals to hold lamp in place. New-prime.
G13406 \$1.99 ea.



Flashlight Lamp PR15

Standard bulb used in many common flashlights. These are very bright at 4.8V (3 cell flashlights) but also works fine in the 2 cell models.
G6744 2/\$1.00



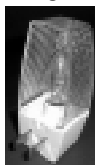
Lamp with Cord & Switch

Great item to make color organs or decorative lights. Consists of a 5' line cord with built-in on/off switch and a snap in C7 120VAC lamp installed. Cord plugs into standard AC outlet and even features a built-in fuse in the plug for safety.
G2121 \$1.00



First Alert 120VAC Automatic Night Light

Plugs into standard 120VAC outlet and turns on automatically at night then off in the morning. Uses only 4Watts of electricity but provides a nice light for security. Buy several for use in bedrooms hallways, etc. Brand new!
G9333 \$2.00 ea.



Prime Fluorescent Black Light Tubes

We made a special purchase of many of the most popular blacklight tubes and are passing the savings on to you! All tubes are brand new and are the Black Light Blue (BLB) type. Hurry - these won't last long.



	Part #	W	Base	Size	Stock #	Price
Type 1	F6T5BLB	6	G5	8 1/4" L x 5/8" Dia.	G13241	\$6.25 ea.
Type 2	FL8T5BLB	8	G5	11 1/4" L x 5/8" Dia.	G13243	\$5.95 ea.
Type 3	F10T8BLB	10	G13	12 3/4" L x 1" Dia.	G13251	\$10.50 ea.
Type 4	F15T8BLB	15	G13	17" L x 1" Dia.	G13258	\$12.00 ea.
Type 5	F20T8BLB	20	G13	23 1/4" L x 1" Dia.	G13260	\$14.00 ea.

NE2 LAMP With 22K Resistor

Small neon lamp glows when connected to 120VAC. Drooping resistor of 22KΩ is already attached to the bulb.
G15245 5/\$1.00



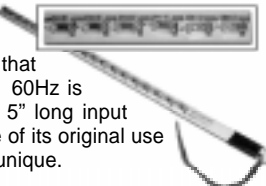
Super Bright T1 2PIN Mini Bulb for 1 Cell Flashlights

Replaces all miniature incandescent bulbs in 1 "AA" or 1 "AAA" flashlights. High brightness type. Worth over \$1.00 each.
G9306 4/\$1.00
G9306A 100/\$20.00
G9306B 1000/\$150.00



Giant Neon Lamp Light Bar

This light bar is about 16"L x .67" wide. It has 20 bright neon lamps that light up when 120VAC 60Hz is applied to the flexible 5" long input leads. We are not sure of its original use but it is new and very unique.
G15288 \$7.95



6V 5Watt Quartz Halogen Bulb w/ Reflector

High quality halogen bulb type CM8-A281 MR-16 by Chicago Miniature features a chrome plated reflector and clear protective lens. Diameter of reflector is 1.94" x 1.44" Depth (excluding the two connection pins). Features bright white light spot output. Brand new- Special Price!
G14863 \$1.99 ea.



12V 20Watt Quartz Halogen Bulb w/ Reflector

High quality halogen bulb type BAB/FG made by Chicago Miniature features a chrome plated reflector with clear lens that surrounds the halogen bulb. Diameter of reflector is 1.94" x 1.44" Depth (excluding the two connection pins). Features brilliant white spot output. Brand new- Special Price!
G14864 \$1.99 ea.



Panel Mounting 12VDC Flashing LED With Long Hookup Leads

Bright orange/red flashing LED can be mounted in a .25" hole and has 22" long insulated flexible leads. These are commonly used in cars as a "fake" car alarm armed indicator. No need to use an external resistor just connect orange lead to (+) and black lead to (-). Do not reverse leads as damage to LED will result. Brand new easy to use.
G14823 99¢ ea.



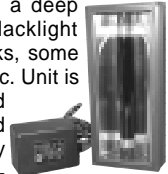
Panel Mount Snap-in Red Indicator

Made by Littlefuse, this "snap-in" indicator lights up a bright red when any AC or DC voltage in the range of 9 to 14 volts is applied. Mounts in a .35" hole, and has 8" long insulated leads. Requires about 30mA current. Littlefuse #970S00217.
G14875 99¢ ea.



Super Blacklight

Super power blacklight glows a deep purple and brilliantly lights blacklight posters, invisible ultraviolet inks, some currencies, certain minerals, etc. Unit is complete with a sophisticated circuit board and was designed for use by a cosmetic company for use in detecting skin problems. High quality completely assembled unit is about 7" L x 3" W x 2 1/4" D. It uses a 12VDC 500ma adapter (included) and its circuitry allows the unit to be turned on for one minute then it resets after another minute. The circuitry could possibly be modified for continuous on, however, we don't have any info. on how to do this or if it is even possible. We will tell you that the output of this is very bright and covers all of the longwave spectrum. Brand new in manufacturer box. Very unique and worth many, many times our price.
G9589 \$6.95 ea.



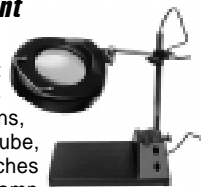
"U" Tube Unfiltered Blacklight Tube

Unfiltered "U" Shaped fluorescent blacklight tube gives off a light purple glow when powered. Size about 5 7/8" Tall x 1 3/4" (at base). Brand new part # FTB8T6BL.
G14043 99¢ ea.



High Quality Fluorescent Magnifier Desk Lamp

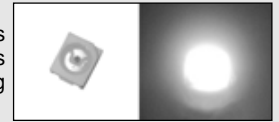
Bright white fluorescent desk lamp features large 3 Diopter optical magnifier lens, 22Watt circline fluorescent tube, and weighted base with inches and mm markings. This lamp has all types of tilt/height adjustments to allow you to work on your small projects with ease. Once you try this, you'll never want to be without it! Base size is 7 1/4" x 11 1/2". Height is about 14". Overall diameter of top magnifier/tube assembly is about 8 1/2". Black color-brand new in retail box. Operates on standard 120VAC.
G12819 \$69.95 ea.



Blinding Output Blue SMD LEDs

These LEDs emit a brilliant light with a viewing angle of 120 degrees when 3V to 4.2VDC is applied. They feature a water clear lens and a .14" x .11" x .08" H white rectangular SMD case. Use a small tip low wattage soldering iron if you wish to solder leads to it. This is one of the lowest prices available anywhere for these high quality/output SMD LEDs. Makes great tiny book light for night reading when you use a 36Ω resistor in series with a 9V battery. Brand new- on tape and reel. Blue color is 470nm.

G13706 49¢ ea. • 10/\$4.50 • 100/\$42.00 • 2000/\$780.00



Brilliant Green HP Micro SMD LED

Axial lead micro LED features crystal clear lens and lights up a brilliant green. These are on tape & reel and have a metal terminal on each end. The terminals are fine but the leads are tarnished from storage. HP part # HLMP-6505. Blowout price.

G14380 20/99¢

Bright Red Axial Micro LED

Axial lead micro LED lights up bright red. Features .12" L x .09" diffused red rectangular lens and .55" Long axial leads. Great for use where size is a premium but you don't want the hassle of using an SMD LED.

G15212 8/\$1.00

Bright SMD Chip LEDs

Tiny leadless SMD LEDs. Each produces a bright glow. Very tiny and packaged on tape and reel.

Fig.	Color	Stock#	Price
A	Green	G9490	10/\$1.00
B	Red	G9491	12/\$1.00

Brilliant Green SMD LED by HP

Type HSMG-T400 green SMD LED features a tiny 3.5mm x 2.5mm SMD white case with clear lens. These light up brilliant green when 2.5V is applied. On tape and reel.

G15293 10/99¢

LEDs – T1 (3mm)

Bright Green 3.1mm LED

Nice even brightness, 40° viewing angle diffused green lens LED by Rohm. Type SLR-342MGT32 lights up a bright green with 3VDC applied. Prime - full length leads. Blowout price! On tape & Reel.

G13859 20/\$1.00

G13859A Factory Reel of 2,000/\$50.00

HP Brilliant T1 Red LED

Clear lens 3mm (T1) led by HP (part#HLMP-K105) lights up a brilliant red. Prime quality LED. We are not sure of the output but it's probably in the 500-1000MCD range.

G12868 5/\$1.00

Brilliant Yellow T1 LED

Water clear lens T1 LED emits a brilliant yellow light. These are on tape and reel with full-length leads.

G4275 10/\$1.00

G4275A 100/\$8.00

Bright Orange-Red T1 LED

Clear lens T1 (3mm) LED lights up a bright orange red glow. Quality LED at a blowout price. Long leads.

G12968 10/\$1.00

G12968A 100/\$8.00

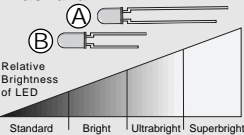
Sharp GL4PR8 4mm Red LED

See thru red lens LED by Sharp. Features full length leads and 4mm Dia. Lens.

G14669 25/99¢

T1 LEDs (3mm)

PRIME! We sell only top quality LEDs by various manufacturers such as: Toshiba, Sharp, Stanley, Liteon and Hewlett Packard.



Stock#	Color	Lens	Brightness	Fig.	Price
G1011	Red	Diffused Red	Standard	A	9/\$1.00
G5305	Yellow	Diffused Yellow	Standard	A	12/\$1.00
G2386	Yellow	Milk White	Standard	B	7/\$1.00
G3298	Yellow	Diffused Yellow	Bright	A	15/\$1.00
G3298A	Yellow	Diffused Yellow	Bright	A	100/\$6.00
G6164	Green	Diffused Green	Bright	B	6/\$1.00
G6164A	Green	Diffused Green	Bright	B	100/\$15.00
G8019	Green	See thru Green	Superbright	A	10/\$1.00
G8300	Orange	Clear	Superbright	A*	10/\$1.00
G8300A	Orange	Clear	Superbright	A*	100/\$8.00

* Tape & reel

Stanley Super Bright T1 Red LEDs

Low current high reliability T1 case red LED by Stanley. 6mcd@20mA typical output. Pastel diffused pinkish lens type. Peak wave length: 630nm, V_F=2.0V. These are brand new and very nice!

G7862 20/\$1.00

G7862A Sealed Bag of 200 / \$7.00

G78625B 5 Bags (1000) / \$30.00

Crystal Clear Bright Orange T1 LED

Clear case T1 (3mm) LED lights up a bright orange color. New-on tape and reel.

G1650 20/\$1.00

G1650A 100/\$4.00

Bright Blue T1 LED

Prime bright blue LED type 264UBD features a light blue diffused lens. Brand new!

G9831 \$1.00 ea.

Kingbright L1034GD-01 Factory Bag of 1000 Small Green LEDs

This LED has a unique shape with a tiny green 2mm see through green rod on top. This LED lights up bright green at 2.8V. These have .25" Long leads that have been formed for PC board mounting. Full factory bag of 1000 Kingbright L1034GD-01 LEDs.

G15249 \$15.00

Rainbow of Colors T1 LED Assortment

You get 4 bright colorful T1 3mm LEDs: one blue, one red, one green and one yellow. All prime and beautiful to look at when lit up!

G4256 \$1.00

LEDs – T1 3/4 (5mm)

Blinding White LED 5000MCD

This is the brightest white LED we have. It produces a brilliant white output and operates from 3.2V up to 4VDC. Prime full length leads. Crystal clear lens.

G14420 99¢ ea.

Brilliant White 5mm LED

Brilliant white 5mm (T1 3/4) water clear lens flangeless base LED features high output of about 3000MCD. V_f = 3.0 to 3.6V, I_f = 20mA. Prime, very good quality.

G15686 99¢ ea.

Factory Sealed Bag of 700 Pieces

G15687 \$295.00

Ultrabright Jumbo Green LED

Crystal clear case 5mm jumbo LED lights up a bright green. Great for applications requiring a bright attention getting light. Long lead prime units.

G9979 10/\$1.00

G9979A 100/\$9.00

Clear Lens Green Blinking LED

Water clear T1 3/4 (5mm) LED blinks bright green when 5 to 9VDC is applied. Prime, full length leads.

G13832 2/\$1.00

Clear Lens Yellow Blinking LED

Water clear T1 3/4 (5mm) LED blinks bright yellow when 5 to 9VDC is applied. Prime, full length leads.

G13831 2/\$1.00

2500MCD Bright Yellow T1 3/4 LED

Water clear T1 3/4 (5mm) case LED by Agilent Technologies lights a blinding yellow color. Brand new on tape and reel at a blowout price! Part # QLMA-DL86.

G12860 2/\$1.25

G12860A 10/\$6.00

G12860B 100/\$55.00

Jumbo T1 3/4 Orange Resistor LED

Simple to use LED, produces a nice orange glow when connected directly to a 9V battery. No resistor needed as it already has it built into the LED. Orange lens. Works from 6VDC up to 14 VDC.
G5613 4/\$1.00

Brilliant Blue T1 3/4 5mm LED

Super bright T1 3/4 5mm blue LED features long leads and crystal clear case. This LED almost hurts your eyes if you look at it! Operates on 3.2 to 4.3V. Prime beautiful LED.
G14753 \$1.29 ea.

2500 MCD Ultrabright Red LED

Crystal clear lens 5mm T1 3/4 LED light up a brilliant red beam. Factory prime LEDs with full length leads. Forward voltage 2.1V. Current 20mA. Min MCD 2000 - Maximum 3000 MCD (typical 2500). Viewing angle 26°. Peak wavelength = 600nm.
G12704 89¢ ea.
10/\$7.00 • 100/\$55.00 • 1000/\$450.00

Brilliant Orange-Red LED

Clear lens T1 3/4 5mm LED produces a blinding red/orange light. Minimum output 4000 MCD. Prime with full length leads.
G14341 5/99¢

HP Laser-Like LED

Type QLMP-3730.25 made by HP produces a brilliant red light from jumbo water clear magnifying lens. Size T1 3/4. These are very bright! Prime with 3/8" long leads.
G8413 5/\$1.00

Powerful 5MM IR LED

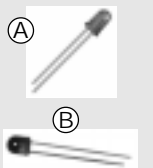
Pale see-thru grey case 5mm (T1 3/4) IR LED. Full length leads. Operates from 2.8VDC.
G13661 5/\$1.00

Super Bright Ultraviolet Purple 400-405nm LED

These are brilliant 400-405nm purple UV 5mm LEDs that are perfect for use in inspecting money, lighting up invisible UV inks, blacklight posters, etc. Crystal clear 5mm (T1 3/4 lens). This uses Cree Megabright® LED dice and features a forward current of 30mA, DC operating voltage of 3.7 to 4.5VDC. **Note: This LED produces intense ultraviolet light. Exposure to UV radiation can be harmful to your health. Protect your eyes and skin when operating. Buyer assumes all risks using this LED.** Prime- Brand new.
G13533 \$2.49 ea.

T1 3/4 Jumbo LEDs (5mm)

Stock#	Color	Lens	Brightness	Fig.	Price
G1005	Red	Diffused Red	Standard	A	7/\$1.00
G3297	Red	Diffused Red	Standard	B	12/\$1.00
G5566	Red	Clear	Superbright	A	3/\$1.00
G1007	Yellow	Diffused Yellow	Standard	A	5/\$1.00
G1006	Green	Diffused Green	Standard	A	5/\$1.00
G1006A	Green	Diffused Green	Standard	A	100/\$18.00



Blinding Output Giant 10mm Blue LED

Brilliant 10mm Blue LED operates from 3.6V to 4.0VDC @ 25mA and produces a blinding blue light. Crystal clear lens and full length leads. The MCD on these is 6000. The viewing angle is 15° and the wavelength is 470nm. Prime factory stock.
G13505 \$4.95 ea.

Giant 10mm LED Color Assortment

We have taken 1 each of our very popular giant 10mm clear lens LEDs and packaged them in this special combination. You get almost \$12 worth of LEDs for this special price. Check the G13501 and G13505 for full specs on the individual LEDs. Remember you get 1 red, 1 white, and 1 blue 10mm giant LEDs.
G13136 \$8.95



HP High Quality T1 3/4 5mm Green LED

Diffused green lens LED by HP features long leads and nice green glow. Type HLMP 3507 features a luminous intensity of 5.2 mcd @ 10mA. Viewing angle 60°. These are factory prime high quality LEDs.
G13113 10/\$1.00
G13113A 500/\$35.00

3000 MCD Ultrabright Blue LED

Crystal clear lens 5mm T1 3/4 LED lights up with such a brilliant beam that you can't look directly at it. These are factory prime LEDs with full length leads. Current 20ma, forward voltage 3.2V to 4.3V, min MCD 2000 - maximum 3500 (typical 3000). Viewing angle 25°. Wavelength= 470nm.
G12702 \$2.39 ea.

Ultrabright Orange-Red 4000MCD LED

Blinding output T1 3/4 Jumbo LED made by Stanley for an Outdoor electronic sign making OEM. These are prime brilliant LEDs that can be seen in daylight. Crystal clear lens, 5mm size, with full length leads. Viewing angle 25°. Forward voltage 2.1V. Prime.
G12766 5/\$2.00
G12766A Factory Bag of 1000/\$250.00

Pure Orange 5mm T1 3/4 LED

Very nice clear lens LED lights up a nice orange color-not red-orange. Full length leads.
G14559 10/99¢

Ultrabright Large T1 3/4 5mm LEDs

Prime factory LEDs in a rainbow of colors! All have clear lens.



Blinking 5mm Diffused Green LED

Bright green LED blinks when 3VDC to 5 VDC is applied. To use on 9VDC just connect a 100Ω resistor in series with one of the leads. Full length leads.
G15257 \$1.00 ea.

The Blinder 5MM White LED

This white LED will have you seeing "spots" before your eyes if you look at it! It was made for an OEM that was making outdoor signs. It is brand new and features a 5MM (T1 3/4) crystal clear lens and long leads. We do not have the MCD rating but we suspect that it is over 3000. Operates on 4.0VDC. Brand new! Lowest price around on this high output white LED.
G13177 \$1.99 ea.

Panel Mount Red Indicator Light

Nice quality push-in panel mount indicator with built in red LED. This has a dropping resistor inside the indicator to allow operation from 12 to 24VDC.
G15312 99¢ ea.



Panel Mount Yellow Indicator Light

Nice quality push-in panel mount indicator with built in yellow LED. This has a dropping resistor inside the indicator to allow operation from 12 to 24VDC.
G15313 99¢ ea.



Stock#	Color	MCD	Voltage	Price
G12704	Red	2500MCD	2.1 to 2.7V	\$0.89
G12768	Yellow	3000MCD	2.3 to 2.8V	\$2.00
G12769	Green	3000MCD	3.2 to 4.3V	\$2.29

Our Brightest 5mm Red LED

Clear lens 5mm LED illuminates a brilliant red when 3 volts is applied. Output must be several thousand MCD or better - we don't know. These are long lead prime LEDs at a blowout price!
G13899 4/\$1.00

The Blinder Brilliant 5mm Red LED

These are blinding output 5mm (T1 3/4) clear lens LEDs. Each produces a brilliant red output with several thousand MCD output. These are prime LEDs on tape and reel with full length leads.
G13713 5/\$1.00

HP Laserlike Brilliant Red LED

At 3VDC the output of this LED almost hurts your eyes. Great for when you need a real attention getter. Jumbo 5mm T1 3/4 water clear lens. Prime HP quality.
G8757 5/\$1.00
G8757A 100/\$22.00

LEDs – (8mm, 10mm, 20mm)

Giant 10mm Blinking Red LED

Super large 10mm LED features crystal clear lens. Blinks bright red when 5 to 9VDC is applied. Prime, full length leads.
G13830 \$1.29 ea.
10/\$10.00 • 100/\$75.00