

Scott Hall's \$25 Complete Learn to Solder

My kit starts with a learning to solder system put together by a respected kit manufacturer:

Elenco AmeriKit Learn to Solder Kit (AK-100 Solder Practice Kit)

This kit is a must for the beginner. After practicing your soldering techniques on the special area of the board, you'll be ready to assemble this European siren with flashing LED's. Kit includes:

- Elenco SP-1A Solder Practice Circuit Board
- Lead-Free Solder .032"
- Short Length Desoldering Braid
- 25W Soldering Iron
- Diagonal Wire Cutters
- All Electronic Parts Needed (does not include 9V battery)
- Handy Organizing Case
- 14-page Booklet; Identifying components; Color code reading exercises, resistors, capacitors, and inductors (Includes color code calculator); Proper soldering techniques; Debugging a circuit
- 163 solder points, standard soldering connections, close-tolerance soldering, and tack soldering
- Desoldering Exercise
- Evaluation exam of performed soldering connections – written and visual
- Complete voltage and resistance analysis of circuit



I have also added a few other necessities:

- TS-110 Leaded 60/40 0.032" Solder (Lead solder melts at a lower melting point, and flows better, making for easy solder joints preventing damage to parts)



- SWK 5' Spool Fine Desoldering Braid



- Alkaline 9V Battery



- Adjustable Wire Strippers



For \$10 more, these necessities also can be added:

- 7-Function Digital Multimeter



- Needle-nose Pliers



- All Aluminum Solder Sucker



For an alternative, the following kit can be used:

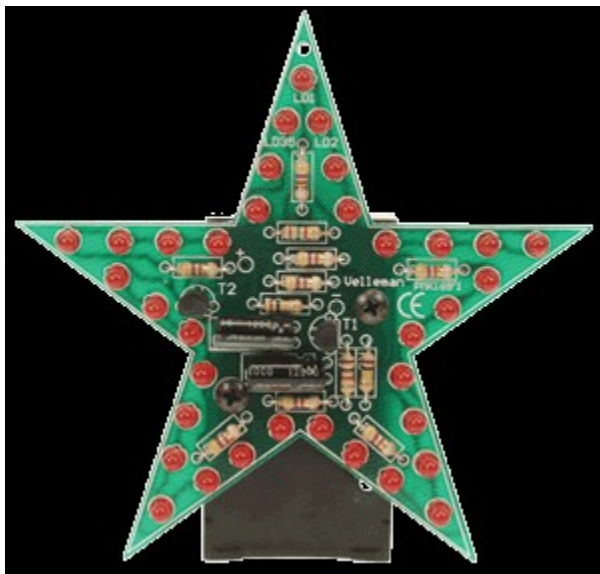
Beginner Solder Tool Kit (Elenco ST123)



- 25W UL approved soldering iron with stand
- Needle-nose Pliers
- Wire Strippers
- Diagonal Wire Cutters
- Tip Cleaning Sponge

This kit has a complete selection of electronic soldering tools for those who are just getting started in kit assembly.

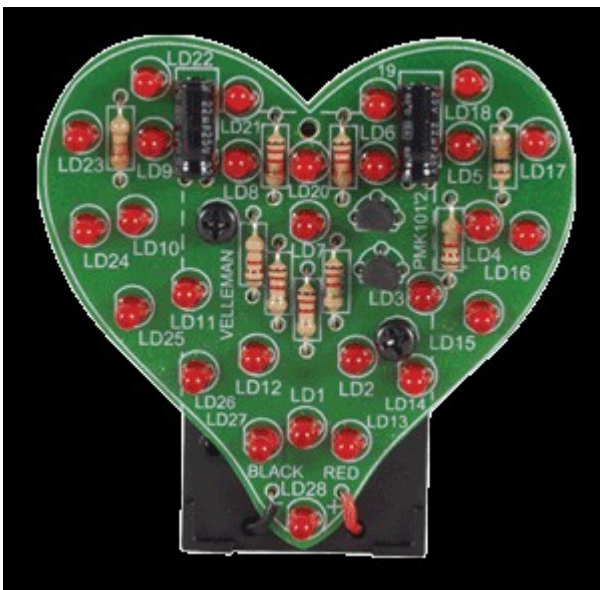
Along with the leaded solder, desoldering braid and 9V battery listed above. Then choose from any of the following project kits:



LED Flashing Holiday Star Kit (Red) (Ramsey MK169R)

- 35 brilliant red LEDs!
- Flashing or steady display!
- Freestanding or hanging!

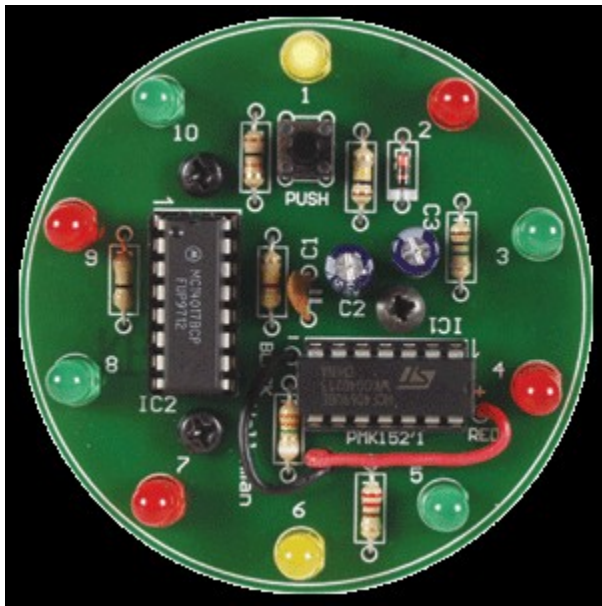
A classic star shaped PC board contains 35 bright red LEDs. The circuit allows you to select either a flashing or steady display of the LEDs. The built-in battery holder also acts as a freestanding base for table or desktop use, or can be hung from the tree or ceiling. Runs on a standard 9V battery (not included). Measures 3.54" x 3.54". From Velleman.



LED Flashing Heart Kit (Ramsey MK101)

- 28 brilliant red LEDs!
- Unique dual heart design!
- Freestanding or hanging!

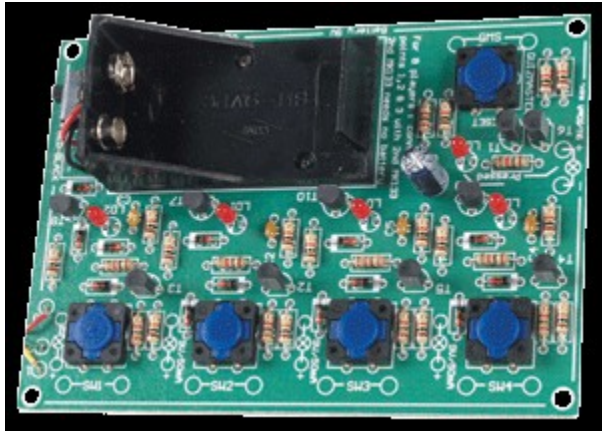
What a way to display your feelings to that very special person in your life! Dazzle her with this unique dual heart electronic display. 28 brilliant red LEDs are formed into two separate heart designs on the heart shaped PC board creating a great flashing display. Built-in battery holder base makes the heart freestanding and perfect for a desk or table. Runs on a standard 9V battery (not included). Measures 2.4" x 2.4" x 1.2". From Velleman.



LED Wheel of Fortune Kit (Ramsey MK152)

- 10 brilliant red, green & yellow LEDs!
- Electronic LED spinning action
- Spinning gradually decreases
- Auto power off!

Acts just like the casino game! Just push the button and the 10 LED's start showing a spinning action. They gradually slow down until the "winning" one remains lit. Push the button to start over again. Operates on a standard 9V battery (not included) and low power consumption along with auto on off assures a long battery life. Measures 2.6" x 1.3". From Velleman.



4 Player Quiz Table Kit (Ramsey MK133)

- Shows first button pushed
- Quizmaster reset
- Can be daisy-chained

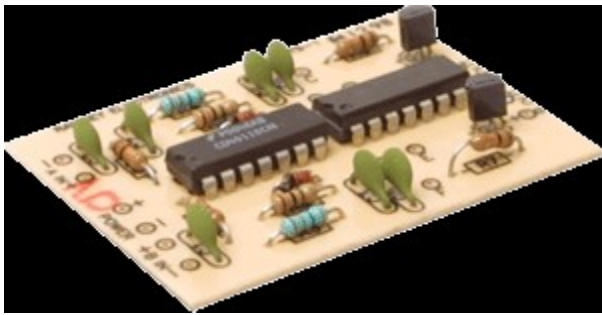
Just like the TV game shows, you can have up to 4 players "on the ready" just waiting to be the first one to answer the question. But how do you know who's first? That's simple with this kit! 4 player push buttons are provided. The first player to push their button is indicated with a latched on LED. Just like on TV! The "Quizmaster" button resets it for another round! If you have more than 4 players you can even daisy-chain two kits together for up to 8 players! Runs on a standard 9V battery (not included). Measures 4.3" x 3.1". From Velleman.



Voice Activated Switch Kit (Ramsey VS1)

- Directly switches relays or low voltage loads up to 100mA
- Use your voice or noise to control! (Clapper!)

Voice activated switch (VOX) kit will provide as switched output when it 'hears' sound. Use it to key a transmitter for hands-free PTT, or turn on a tape recorder automatically when people are talking in a room. How about having your hallway or porch lights turn on at a whistle or better yet, the garage lights when you beep the horn. Kit runs on 6 to 12 VDC and drives up to 100 mA load such as a relay, tape recorder motor, or transmitter key line. Size: 2 1/2 "x 1/2" x 1 1/4".

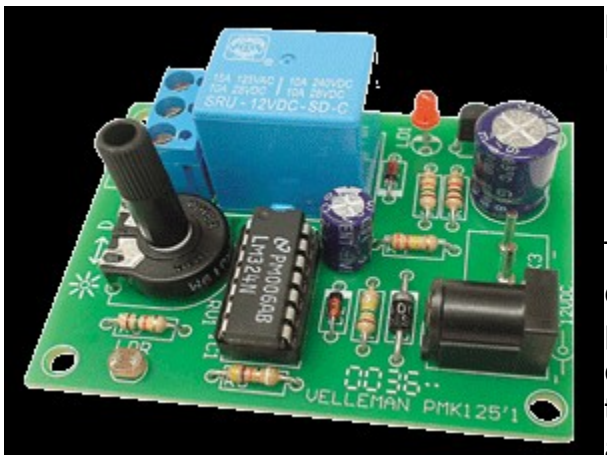


Touch Switch Kit (Ramsey TS1)

- Directly switches relays or low voltage loads up to 100mA
- Great for light switches, radios, keyers

Touch once - it's on, touch again - it's off, or use the momentary outputs that stay on only as long as touched.

Touch contact may be a door knob, small coin, or even a well watered plant! Uses low power CMOS circuitry and functions on the principle of hum and noise pick-up when input is touched. Will drive loads up to 100 mA such as relay, bell, siren, etc, runs on 6 to 12 VDC, kit includes info on using as a key for CW keyers. And, we saved the best for last - there are two completely independent touch switch units on each kit PC board, it's like getting 2 for 1 (and no, you can't buy just half of this kit!).



Light Actuated Switch Kit (Ramsey MK125)

- Adjustable sensitivity
- Heavy duty relay included

This tiny kit is designed to automatically turn something on at night time and back off at dawn! A heavy duty relay provides NO and NC contacts rated at 5A at 24V. IC design delay circuit avoids cycling on/off at marginal thresholds. Wide range sensitivity adjustment matches any application. Runs on 12VDC. Use our AC125 power supply for plug-in ease! Measures 2.6" x 2.0". From Velleman.

Use our AC125 power supply for plug-in ease! Measures 2.6" x 2.0". From Velleman.



Super Snooper Amplifier Kit (Ramsey BN9)

- Super Sensitive!
- Choice of gain...either 50 or 3000!
- High sensitivity long distance listening
- Powerful 2 watt audio output
- Great booster amp for radios, Walkmans, etc.

Here's a super sensitive amplifier that will pick up a pin drop at 15 feet! An ideal general purpose amplifier, too. Full 2 watts audio output is great for boosting low power

receivers and radios, and when wired for high gain, makes an excellent room monitor or big ear shotgun mike amp... easy to listen in on "wild-life" both in the field and in the city! Recommended to be powered by a 6 to 15 VDC filtered power supply rated for at least 500 mAmps or batteries, drives any speaker. Size: 1 1/2" x 1/2"x 1 1/2".