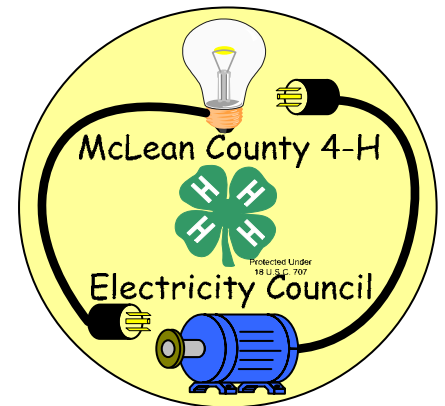


4-H Electricity Project

Project Parts Guide

Updated June 19, 2005



WHERE DO YOU GET THOSE PARTS?

Many times a project idea never makes it to the fair simply for the reason parts could not be found. This guide should help you get started! The stores and on-line companies listed below are by no means the only sources for these parts but have been reliable to date. Plan your project early as local stores may not have your parts at the last minute and on-line/phone orders require delivery time.

DC (Direct Current) Project Parts

Many projects and activities built to demonstrate DC electricity use miniature light bulbs, lamp holders, knife switches, and dry cell batteries. Miniature light bulbs come in many styles. Make sure the voltage of the light bulb matches close to the battery you choose so the bulb does not burn out. Also, make sure the lamp holder you choose matches the light bulb's base style. See photos and part numbers of different parts available.

Visit these stores or web sites...

MCM Electronics www.mcminone.com online electronics supply house.
LOWES local stores (find Hard-to-Find Hardware, Special Fasteners, Science)
Radio Shack www.radioshack.com or local stores
Hobby Stores
Hardware Stores
NASCO science www.eNasco.com



Threaded Style
Miniature Lamp Holder
LOWES part# 139586 (look in hard-to-find hardware, special fasteners, science) or
www.levitonproducts.com (search for model 10020)
or
www.eNasco.com part#SB18052M (sold in qty. 10 only)



Color Bayonet Base Lamp Holder
Radio Shack part# 272-325



Threaded Style
Miniature Lamp 6.3V
MCM part# 25-040
Radio Shack part#272-1130
LOWES #139594



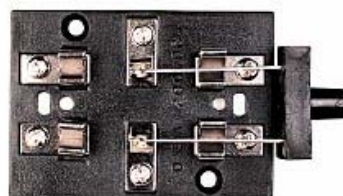
Bayonet Style
Miniature Lamp 6.3V
MCM part# 25-020
Radio Shack part#272-1110



Radio Shack
Miniature Lamp holder
Radio Shack #272-357



Threaded Style
Miniature Lamp Holder
Radio Shack #272-360



Double-Pole Double
Throw Knife Switch
Radio Shack #275-1537
MCM part# 26-790



Bayonet Style Miniature
Lamp Holder
Radio Shack #272-355
MCM part# 25-2515

DC (Direct Current) Project Parts continued...



Single Pole Single
Throw Knife Switch
eNasco #SB09736M
(sold in pkg. of 10 only)
LOWES part# 96644



Single Pole Double
Throw Knife Switch
eNasco #SB09737M
(sold in pkg. of 10 only)
LOWES part# 139578



Alligator Clips (great for
connecting to 6-volt
lantern batteries).
Found at Radio Shack,
Hardware stores,
automotive stores, and
Building supply centers.

Hook-up Wire...Magnet Wire...

<http://www.mcmaster.com/> **McMaster-Carr Supply Co.**

Online Catalog, Online Secure Ordering. FAST SHIPPING standard ground! Great Source for **MAGNET WIRE**, general AC components, Lantern Batteries, and UL approved hook-up wire. NOTE: Wire must be purchased in bulk quantities, consider splitting the cost with other 4-Hers.

Examples:

Part # 7690K131 Lantern Battery, Carbon Zinc 6.0V
Part # 7588K77 Magnet Wire 24 AWG 800 FT
Part # 8073K671 #18 solid Hook-up Wire (black)
Part # 8073K674 #18 solid Hook-up Wire (white)
Part # 8073K677 #18 solid Hook-up Wire (red)
Part # 7236K24 Alligator Clips with screw terminal

Price: \$2.82
Price: \$10.56 per SPOOL
Price: \$9.27 per 100'
Price: \$9.27 per 100'
Price: \$9.27 per 100'
Price: \$5.00 per 10



MAGNET WIRE
(Also known as Enamel
Coated Copper Wire.)

Radio Shack - Hook-up wire, magnet wire, batteries, alligator clips, etc.

Jeffrey Alans (They have enamel coated **magnet wire** in small spools used for craft projects.)

AC (Alternating Current) Parts...

The following are sources for Agriculture and Home AC electrical materials, particularly for projects in the 'Wired for Power' unit.

Tractor Supply Company (TSC)

Farm + Fleet

Menards

LOWES

Tru-Value, ACE Hardware stores

Springfield Electric

Other electric supply stores

NOTE: This is a guide only. Suppliers, online services, part numbers and prices subject to change. Parts and suppliers shown above are only a sample of what is available. McLean County 4-H Electricity Council is not responsible for errors, omissions, and online ordering.