

How Much Will It Cost?

The amount of money spent by an ElectroRally team does not necessarily correlate with team success. During the Kansas ElectroRally 1997 competition, a school with a budget of \$400 placed third overall, while some teams that spent three and four times as much did not place or actually dropped out early in the race. Please keep in mind that Kansas ElectroRally strives for students from any Kansas high school to have the opportunity to participate in the event. In the interest of fairness, we ask that teams limit their total expenses to no more than \$2,000. In order to cover a wide spectrum of resources available to high school students in Kansas, the following two sample budgets are at opposite extremes. The first budget is an example of a team that had access to a large school district grant. In the second budget, a team had very little access to funds provided by either their school or community. Even though most schools will find that they fall somewhere in between the two opposite extremes, the following information should make planning your project easier.

School Budget #1

Scott 1 HP, 24 VDC motor - new	\$260
Curtis motor controller - new	\$270
Curtis throttle pot box for controller - new	\$65
Bussman main safety fuse - new	\$25
General Electric main circuit breaker - new	\$15
Curtis instruments battery "fuel" gauge - new	\$110
Westburg combination volts/amps gauge - new	\$65
Deltec miniature shunts (2) for volts/amp gauge - new	\$35
Prestoflex #6 welding cable (20 feet) - new	\$20
Magna #6 lugs (12) and heat shrink - new	\$20
Steering spindle assemblies (2) - new	\$150
Automatic 24 volt battery charger - new	\$100
Aluminum 2" square stock (20ft.) - new	\$120
Drum bicycle brakes (2) - new	\$160
Deep cycle batteries (2) - new	\$80
Aluminum sheet for body - new	\$100
Miscellaneous hardware - new	\$75
Bicycle wheels (3) - new	\$90
Motor and drive wheel sprockets (2) and chain - new	\$50
Bicycle free wheel clutch - new	\$20
Motorcycle helmet - new	\$70
Safety belts (2) - new	\$50
TOTAL	\$1,950

School Budget #2

Pretolite 1 HP, 24 VDC motor - scavenged from riding pallet mower	\$0
Curtis motor controller - donated by golf cart repair company	\$0
Throttle pot - purchased new 5 K ohm pot from Radio Shack	\$5
Busman main safety fuse - purchased new	\$25
General Electric main circuit breaker - donated by local electric shop	\$0
TOTAL	\$30