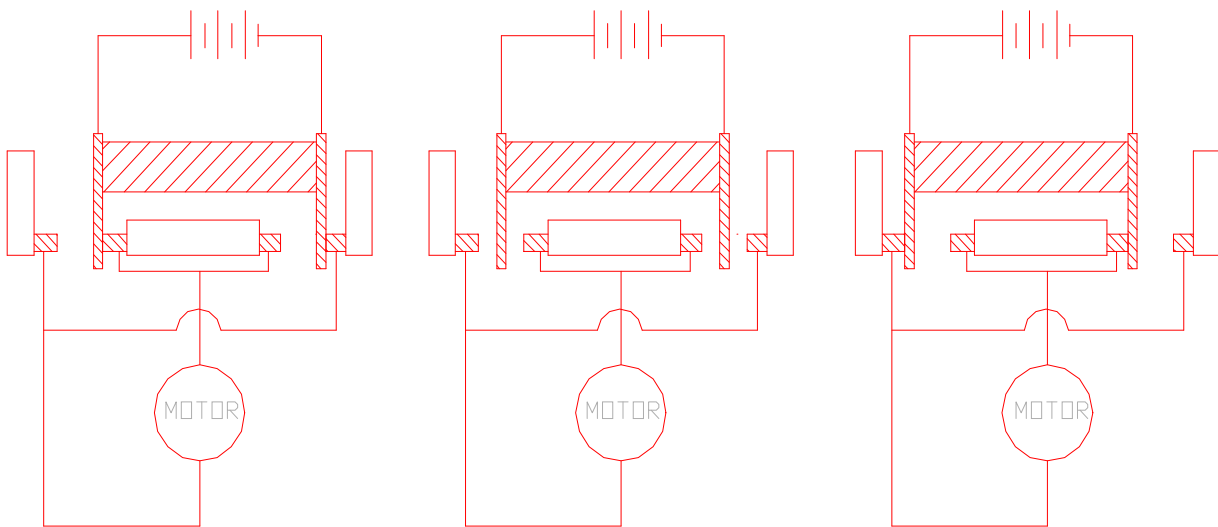


Sharp's Reversing Switch Suitable Year 9/10 Metal Technology (or Systems & Control)

This project came about as a means of fitting a small 12-volt motor to a metal vehicle. The design was for the students to build a vehicle that would carry a given weight. The objective was to roll it down a set incline and measure the distance it would travel. One student wanted to fit an electric motor with a battery to it so I allowed this - provided he made all the components himself.

We ran out of time to actually fit the motor - it is in the back of my mind to look at that another time. The motor he was using was out of a cheap 12 V air compressor so it would have been suitable. Comes complete with a good size gear reduction.

Back to the switch. He wanted a hand control with the battery supply in the vehicle and it needed to be reversible. With a combination of ideas between the student, his dad and I, this is what we have come up with. It works beautifully.



Photograph of the student project:

