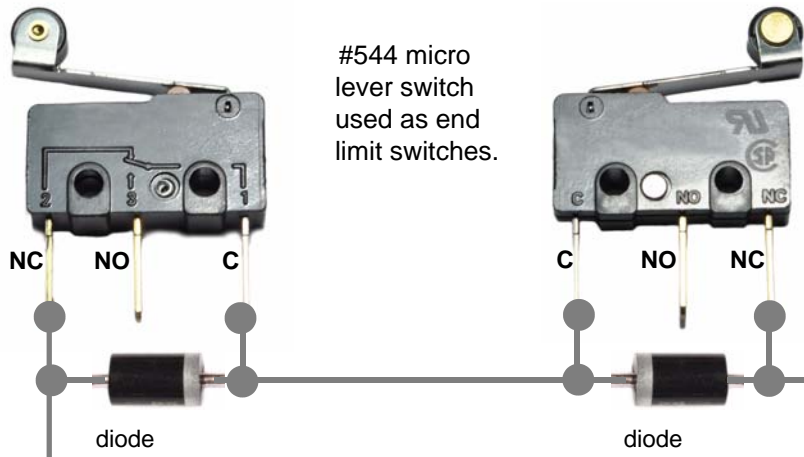


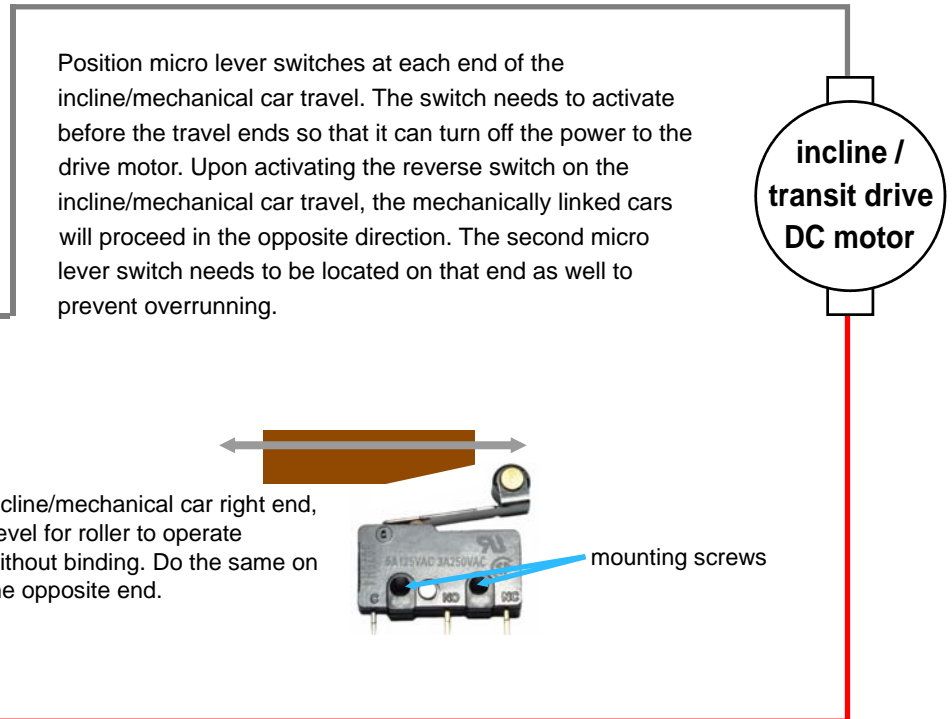
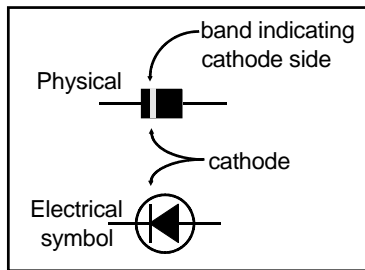
#561/563, Back-N-Forth wiring diagram for a mechanical back-n-forth.

A lot of times it's desirable to mechanically move things via a linked cable using a motor to propel the items. These can be cable cars on an incline, parachute drops on a string, or other types of operation. This diagram shows how to make them operate with limit switches for mechanical travel. The Back-N-Forth sets how long they sit at the ends before power is restored to the incline / transit drive DC motor.



#544 micro lever switch used as end limit switches.

diode (included with #561, or other, Back-N-Forth).



Position micro lever switches at each end of the incline/mechanical car travel. The switch needs to activate before the travel ends so that it can turn off the power to the drive motor. Upon activating the reverse switch on the incline/mechanical car travel, the mechanically linked cars will proceed in the opposite direction. The second micro lever switch needs to be located on that end as well to prevent overrunning.

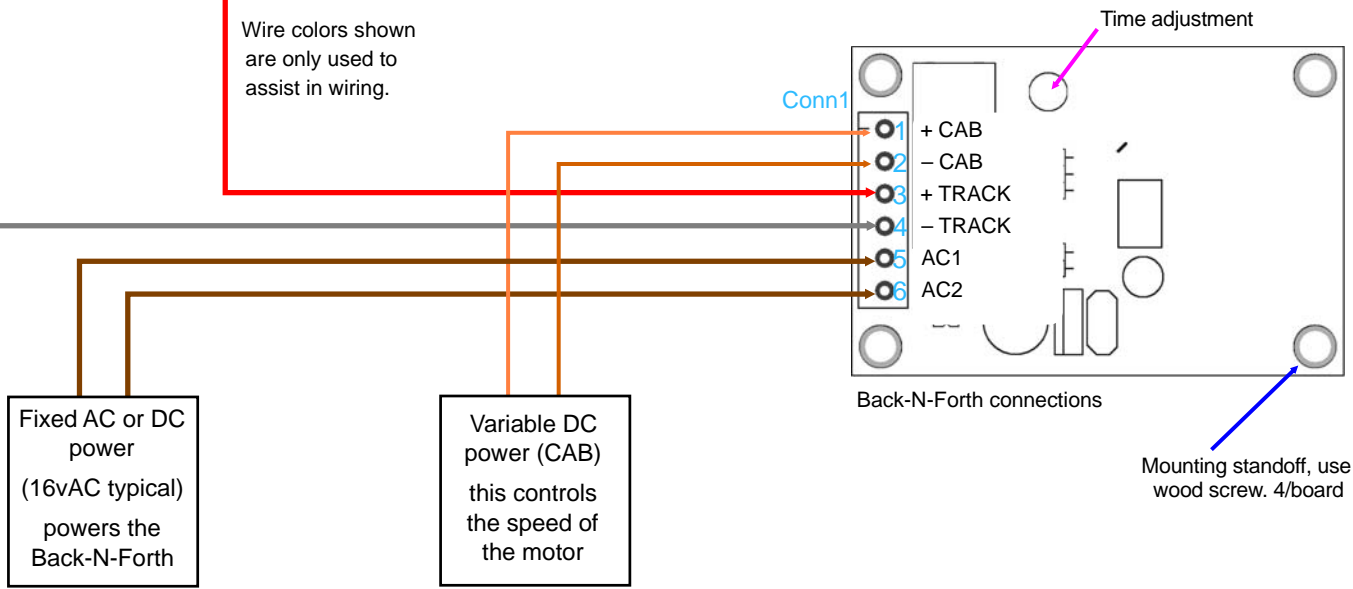
incline / transit drive DC motor

Incline/mechanical car right end, bevel for roller to operate without binding. Do the same on the opposite end.



mounting screws

Wire colors shown are only used to assist in wiring.



Fixed AC or DC power (16vAC typical) powers the Back-N-Forth

Variable DC power (CAB) this controls the speed of the motor

Back-N-Forth connections

Mounting standoff, use #6 wood screw. 4/board



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