

L390 EMITTER FOLLOWER WITH NPN



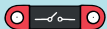
1x potentiometer



1x transistor NPN



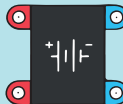
1x bulb



1x switch



1x resistor 100kΩ



1x battery



2x



3x



1x

This build basically replicates the connection of the potentiometer slider directly to the bulb against the ground. However, too much current would flow through the potentiometer and destroy it. Therefore, we use a component called 'emitter follower' (connected with a common collector). It copies the voltage at the potentiometer output, but the transistor takes over the actual current load. Only a very small current flows through the potentiometer without the risk of damaging it.

