

Covering Exciting Energy Situations

NOT YOUR NORMAL

POWER BOX

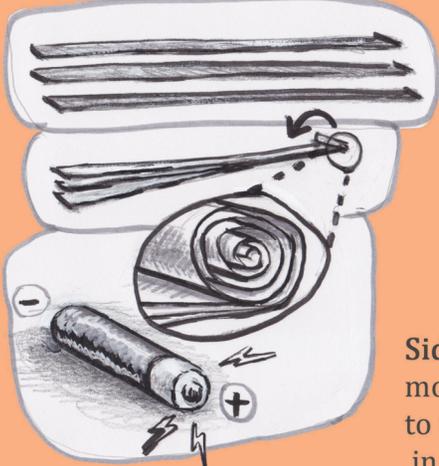
A power box stores energy in the form of shock-giving bits and side-kicks for things that have to move around, like phones, small computers, a TV, and cool cars.



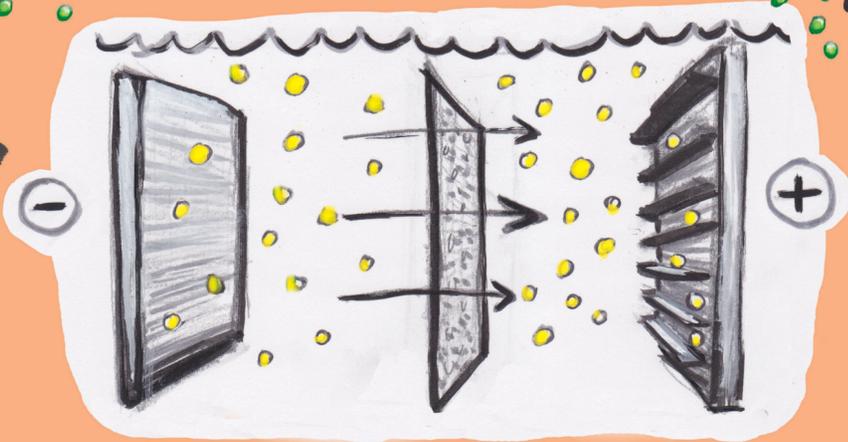
Check In Area is where the side-kicks are happy to sit together easily with their shock-giving bits.

Shock-giving things: Little things that move along lines outside of the power box to power everything.

POWER BOX



Side kicks: Little guys that move from the "Check In area to the Check-Out area" inside the power box.

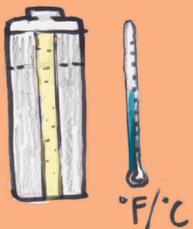


Weird clear matter that fills the power box. The side-kicks move through it to go from the Check-In to the Check-Out area.

Check-Out Area is where the side-kicks and the shock-giving bits go when you tie your power box into the small window in the wall. This stores energy in the power box.

Middle Man is a wall with empty spots. It stands between the Check-In area and the Check-Out area. Middle man is important because if they touch each other, everything can catch on fire.

Hot Shut Down



The normal middle man is one big piece with lots of tiny empty spots.

It gets smaller when the power box gets really hot.



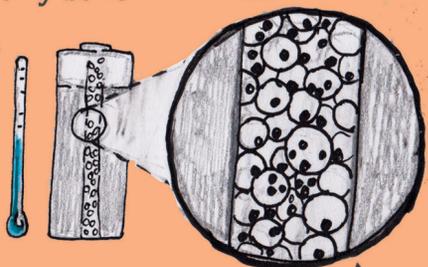
This lets the Check-In area and the Check-Out area touch.

If this happens, the power box can catch fire!

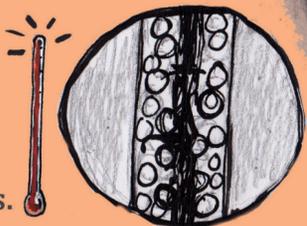


The answer: Lots of tiny balls!!

Some of the balls are like little rocks and keep the Check-Out area and the Check-In area from touching.

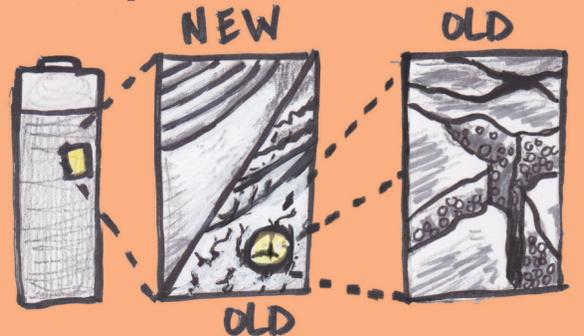


The other soft tiny balls do nothing when the power box is cool, but they get really soft when they get hot and cover the Check-Out area. This keeps the shock-giving things and their side-kicks from moving around, and stops any fires.



Cracking and Self-Fixing

The Check-Out area cracks because it grows much bigger when the side-kicks come and gets small again when they leave. This happens over and over again and causes the area to break. The cracks stop the shock-giving things from moving around the Check-Out area, and the power box does not work!



The answer is: Tiny balls (different ones), again!! Tiny balls live inside the Check-Out area and burst when there is a crack. The balls are filled with some funny black water-matter stuff that lands in the crack. It fixes the crack since this black water-matter stuff allows the shock-giving things to move around again.



Now our not-your-normal Power Box can live a long and safe life, holding energy until we need it.