



LITHIUM-ION BATTERY SAFETY

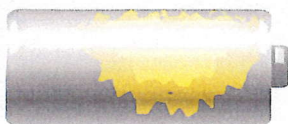
HOW TO SPOT BATTERY PROBLEMS

electrical **safety**
FOUNDATION

Lithium-ion batteries can be found in cell phones, tablets, laptops, electric bikes and scooters, toothbrushes, and backup batteries, along with other regularly used devices. Damaged or defective batteries can **cause fires**. Learn how to spot a problem.

Signs of a Battery Problem

1



Change in the
battery color

2



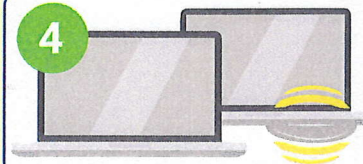
**Sweet electrical
burning odor**
emitted from
the battery

3



Noises or
leaking coming
from the battery

4



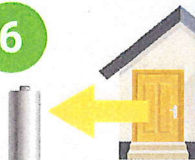
Change in the
**battery or
device shape**

5



Smoke coming
from battery

6



If safe to do so, **move** suspected
damaged or defective batteries
or devices **to an area away from
structures or into fireproof
containers**

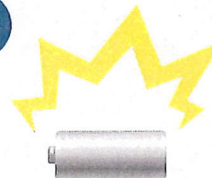
What to do if a Battery Fire Occurs

1



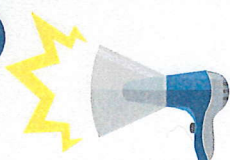
A damaged battery
may **release toxic gas**
that may not be visible
and can be deadly even
in small amounts.

2



**Evacuate
the area** as
batteries
can explode.

3



Alert others of
the battery fire.

4



Call 911 and
notify them of
the battery fire.

What to do With a Damaged Battery

1

call2recycle®

Leading the charge for recycling.

Batteries should only be recycled at **approved battery recycling drop-off locations**. Damaged, defective, or recalled batteries require special attention. Visit **Call2Recycle** for more information; www.call2recycle.org/safety/damaged-defective-and-recalled-batteries

2



Damaged
batteries
should be
**handled
with care**.
Keep
batteries
segregated
from other
materials.

3



Never place
batteries in
regular
waste and
recycling
bins they
**will likely
catch fire**.

ESFI.org



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LITHIUM-ION BATTERY SAFETY HOW TO RECYCLE BATTERIES ⁺

electrical **safety**
FOUNDATION

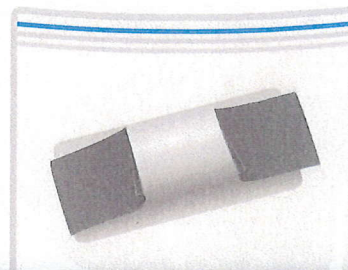
Recycling lithium-ion batteries is the **only proper way of disposing the battery**. Not recycling lithium-ion batteries can **cause fires**, and by recycling batteries, the valuable materials in them will be reused. Visit Call2Recycle.org to find a local battery recycling location.

1



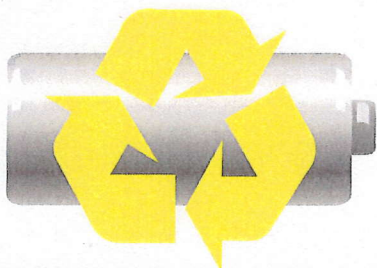
Never place batteries in regular waste and recycling bins. **They will likely catch fire.**

2



To prevent fires, **tape battery terminals** and/or **place lithium-ion batteries in a separate bag**. Keep batteries segregated from other materials.

3



Recycling batteries is **good for the environment**, as the materials in the battery can be **reused**.

4



Putting batteries of any type in the trash **may be illegal** in some states.

5

call recycle[®]

Leading the charge for recycling.

Batteries **should only be recycled at approved battery recycling drop-off locations**. Visit Call2Recycle.org to find a local battery recycling location.

THE CORRECT WAY TO DISPOSE OF:



TABLETS, CAPSULES, PILLS

Drop off at a permanent Dispose A Med box location or event – DisposeaMed.pima.gov
(520) 724-7911

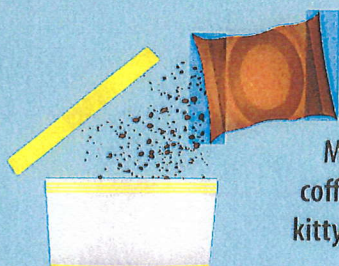
BENEFITS OF PROPER DISPOSAL

- Protects children, pets & wildlife
- Protects our environment
- Prevents potential Rx abuse

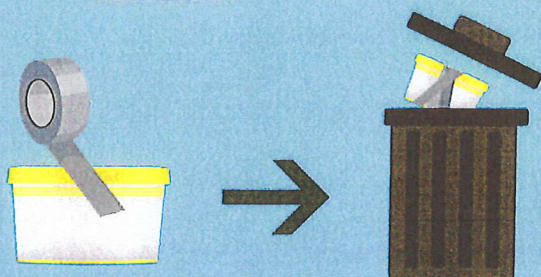
LIQUID MEDICATIONS



Pour liquid medication into a water-tight container, such as an empty margarine tub



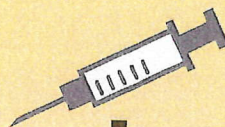
Mix in used coffee grounds, kitty litter or soil



Seal it with duct tape

Place in a trash container.
DO NOT RECYCLE

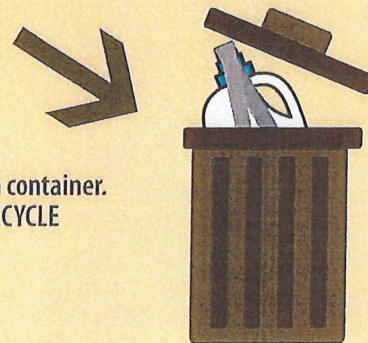
SHARPS NEEDLES, SYRINGES, LANCETS



Place sharps in a puncture proof plastic container with a screw-on lid (for example: a rigid detergent bottle)



Clearly label the container "NON-RECYCLABLE"; secure the lid with duct tape



Place in a trash container.
DO NOT RECYCLE

ITEMS LABELED



**ACID, FLAMMABLE, CAUSTIC,
POISON, CAUTION, TOXIC, DANGER
OR WARNING**

Drop off at a Household Hazardous Waste site
tucsonaz.gov/es/household-hazardous-waste
(520) 791-3171





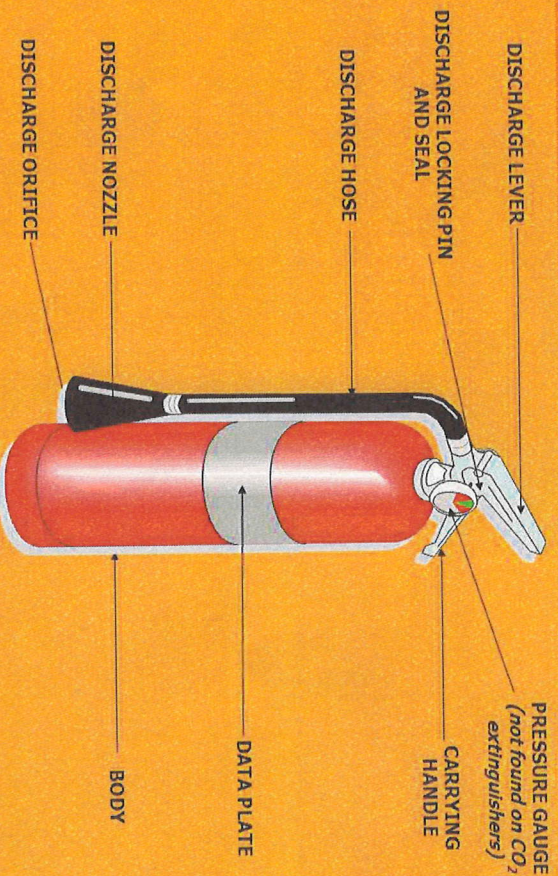
Portable Fire Extinguishers

A fire extinguisher is basically a storage container for agents that put out fires. Portable fire extinguishers are designed to put out SMALL fires, not large ones!

The travel distance for employees to any fire extinguisher should be 75 feet or less.



Fire Extinguisher "Anatomy"



Fire Classifications

A		Ordinary Combustibles	Wood, Paper, Cloth, etc.
B		Flammable Liquids	Grease, Oil, Paint, Solvents
		Live Electrical Equipment	Electrical Panel, Motor, Wiring, etc.

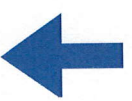
HOW TO USE A FIRE EXTINGUISHER



P

PULL

Pull the pin



A

AIM

Aim at the base of the fire



S

SQUEEZE

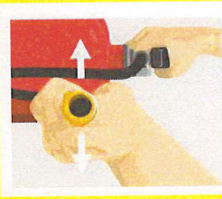
Squeeze the discharge lever



S

SWEEP

Sweep from side to side



Do not try to put out a fire that is larger than a bathroom size trash can!

THE TYPE OF FIRE EXTINGUISHER I NEED FOR MY HOME



2-A:10-B:C

5 lbs or 10 lbs

**Multipurpose Dry Chemical
Residential
Single Use**



NORTHWEST FIRE DISTRICT

REACHING TO SAFETY:

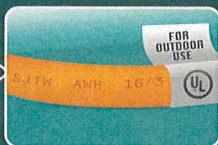
Use Extension Cords Properly

Roughly **3,300 home fires** originate in extension cords each year, **killing 50 people and injuring 270 more**. Extension cords can overheat and cause fires when used improperly, so keep these important tips in mind to **protect your home and workplace**.

DON'T attempt to **plug extension cords into one another**.



Make sure extension cords are **properly rated** for their intended use, indoor or outdoor, and **meet or exceed the power needs** of the appliance or device being used.



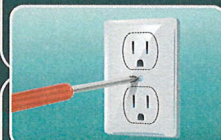
Keep all **outdoor extension cords** clear of snow and standing water.



Do **NOT** overload extension cords.



A heavy reliance on **extension cords** is an indication that you have too few outlets to address your needs. Have **additional outlets installed** where you need them.



Inspect cords for **DAMAGE** before use. Check for **cracked or frayed sockets**, loose or bare wires, and loose connections.



Do **NOT** nail or staple electrical **cords** to walls or baseboards.



Do **NOT** run through **walls, doorways, ceilings or floors**. If cord is covered, heat cannot escape, which may result in a **FIRE HAZARD**.



NEVER use **three-prong plugs** with outlets that only have two slots. **Never cut off the ground pin to force a fit**, which could lead to electric shock.



Buy only cords that have been **approved** by an **independent testing laboratory**.



Do **NOT** substitute **extension cords** for permanent wiring.



DO NOT use an **extension cord** or a **power strip** with **heaters or fans**, which could cause cords to **overheat and result in a fire**.



www.facebook.com/ESFI.org



www.twitter.com/ESFIldotorg



www.youtube.com/ESFIldotorg

Please share this free resource to save lives

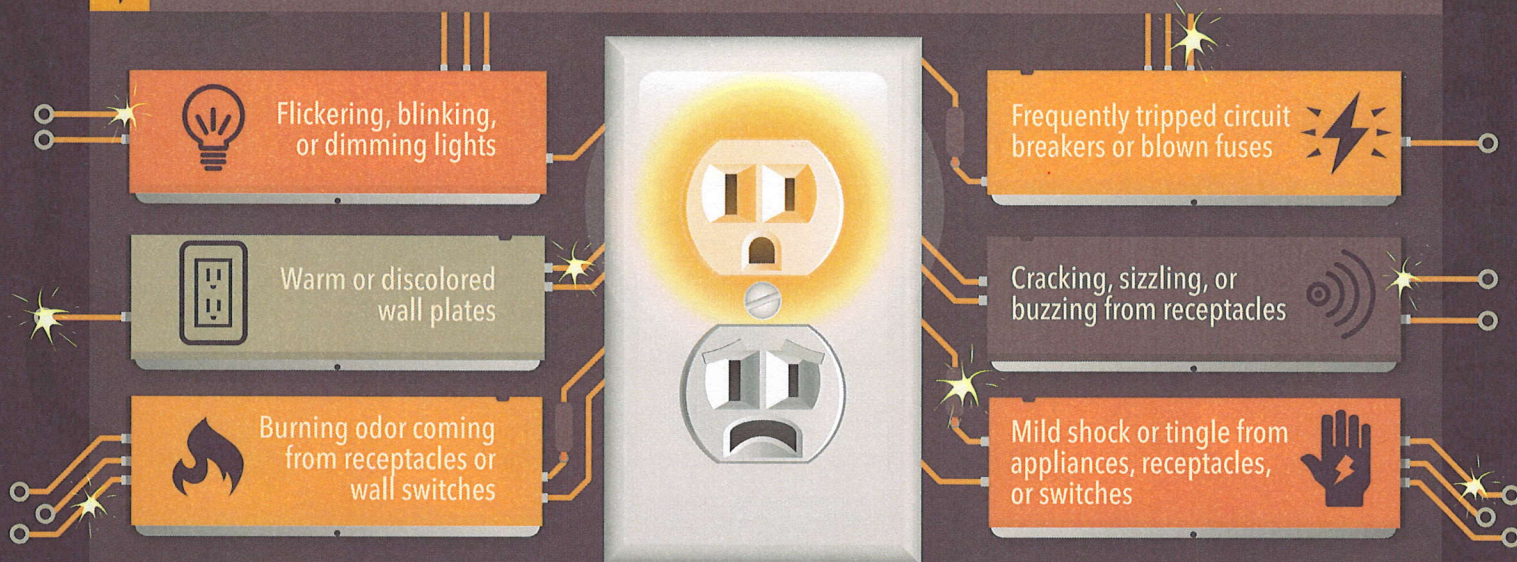
DON'T OVERLOAD YOUR HOME!



According to the National Fire Protection Association, **47,700 home fires** in the U.S. are caused by electrical failure or malfunction each year. These fires result in **418 deaths, 1,570 injuries, and \$1.4 billion in property damage**. Overloaded electrical circuits are a major cause of residential fires. Help lower your risk of electrical fires by not overloading your electrical system.



OVERLOADED CIRCUIT WARNING SIGNS

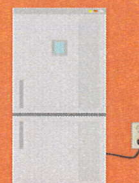


HOW TO PREVENT ELECTRICAL OVERLOADS

Never use extension cords or multi-outlet converters **for appliances**.



All major appliances should be plugged **directly** into a wall receptacle outlet. Only plug one heat-producing appliance into a receptacle outlet at a time.



A heavy reliance on extension cords is an indication that you have **too few outlets** to address your needs. Have a qualified electrician inspect your home and add new outlets.



Power strips **only add additional outlets**; they do not change the amount of power being received from the outlet.



50%

The CPSC estimates **more than 50%** of electrical fires that occur every year **can be prevented** by Arc Fault Circuit Interrupters (AFCIs).

To learn more about AFCIs, visit ESFI.org.



Only use the **appropriate watt bulb** for any lighting fixture. Using a larger watt light bulb may cause a fire.



www.facebook.com/ESFI.org



www.twitter.com/ESFI.org



www.youtube.com/ESFI.org

MAY IS NATIONAL ELECTRICAL SAFETY MONTH

Please share this free resource to save lives



**NORTHWEST
FIRE DISTRICT**

KNOX HomeBox™

For Questions
(520)-887-1010

The Knox HomeBox™ provides EMTs and Paramedics with quick and secure home access when responding to chronically ill, older adults and homebound individuals in emergency situations. It prevents forced entry damages and eliminates expensive repair costs.

The Knox HomeBoxes™ are small, heavy-duty and locked boxes that can be affixed to a wall near the front door. Only firefighters can get into the boxes to access a key to the home, which prevents potential damage to the door upon entry.



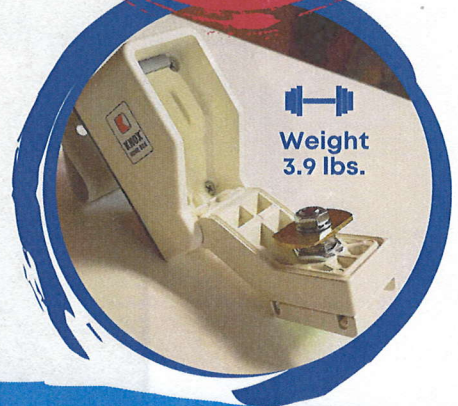
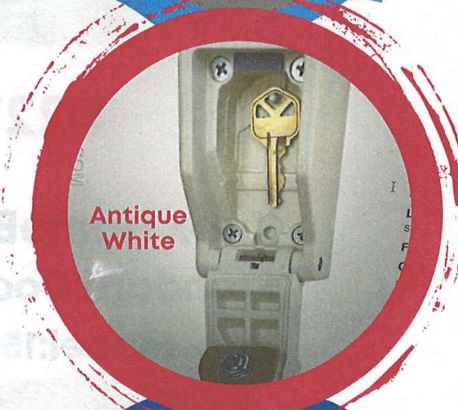
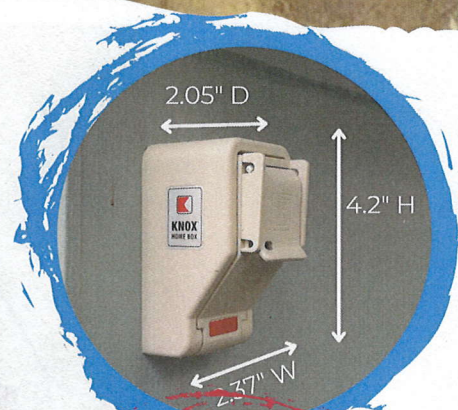
Features

- Holds 1 key
- Weather resistant



Benefits

- Enables rapid access to home.
- Reduces forced entry property damage.
- Reduces risk of injury to first responders.
- Re-securing the residence is simple and quick.
- Utilizes master key system within your fire district.
- One time purchase with no monthly fees.



Order Online

www.knoxbox.com/product/912

Learn about the
Knox HomeBox



KNOX COMPANY

Phone: 800-552-5669

1601 W. Deer Valley Rd.
Phoenix, AZ 85027



KNOX®

When seconds matter™

HomeBox® Prices

Pricing does not include Tax or Shipping Costs

Knox HomeBox® 1500
Surface Mount
Model:1501



\$227

Knox HomeBox® 1500
Faceted Backplate
Model:1501B1



\$249

Knox HomeBox® 1500
Standard Door Hanger
Model:1501DH



\$249

Knox HomeBox® 1500
Security Door Hanger
Model:1501SH



\$249