

Fabrication Tools and Materials for Constructing Solutions in Minutes

Compiled By: Therese Willkomm, PhD. ATP



Cable Ties- Used as a quick fastener. Re-closeable cable ties are also available.



CPVC Joints- Drop elbows are used for quick mounts. 90 and 45 degree elbows and "T" joints provide flexibility in quick fabrication techniques. End caps finish off solutions nicely.



Extruded Polystyrene Insulation Foam- Also known as "Pink" Board and found in the insulation departments of building supply stores.



Half Inch CPVC- Used like tinker toys when doing creative problem solving and assembling solutions.



Magnum Steel Epoxy Putty- Sets up hard in five minutes and strong as steel in 24 hours. Used for custom fabrication of solutions. Found in the adhesive section in hardware.



Plastic Cling Wrap - Used as a mold lease when working with Epoxy Putty. Cling wrap is available at grocery stores.



Polyester Mylar- Used when constructing tactile Graphic Boards - You can also use 3M Window Cling as a substitute. Found at Hardware stores



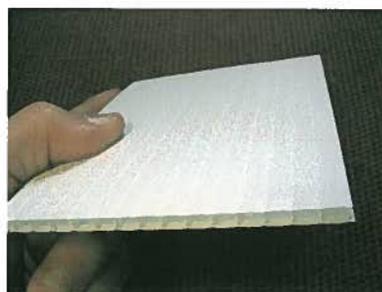
Sheet Acrylic Material- Used in rapid prototyping - scores, snaps, heats and bends in seconds. Found in the window materials sections of hardware stores.



Soft Poly CD caseCase - Used for both constructing a spring loaded switch and adapting existing push button switch by mounting the push button item inside the box.



Soft Polypropylene Clam Shell- Spring loaded and can be quickly used in making a switch.



Stratocore Corrugated Plastic- Found at supply stores. Corrugated plastic used in switch making and rapid prototyping of solutions in minutes.



Vinyl Gloves- Used when working with Epoxy Putty, found at hardware stores

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18 Gauge Speaker Wire- Used in switch making



A Flashlight- Used for testing battery interrupter and switches.



Acrylic Cutter- Used for scoring, and deburring acrylic



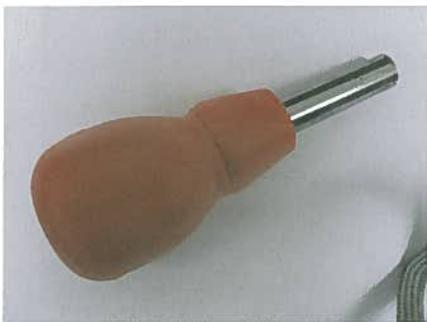
Automatic Wire Stripper - Used for stripping wires quickly



Crayola Gel FX Washable Marker- Writing on plastic, glass or metal surfaces and can be washed off.



Fiskars Scissors- Use for trimming battery interrupters



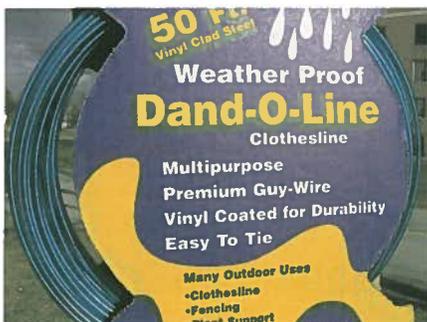
Five In One Screw Driver Set- Many battery operated toys require a mini screwdrivers to access the battery compartment.



Mini Blow Torch- Used for heating and bending acrylic in seconds. Found in the pumping section or at gas station where cigarette lighters are sold.



Paper Clip- One small paper clip is used for adjusting the flame on the mini blow torch.



Premium Guy-Wire- Also known as "Green Wire". Used for rapid and easily bendable mounts.



PVC Cutter- A ratcheting tool that cuts through PVC in seconds.



Utility Knife- Use in scoring and snapping "Pink Board".

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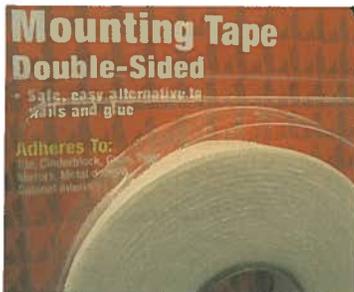
Duck Tape- Use your imagination.



Ace Indoor outdoor Carpet Tape- Fiberglass reinforced double sided tape. Great for removable mounts and sticks well to plastics and in damp areas.



Clear Mounting Tape- Also called VHB tape. Great for putting acrylic pieces together quickly.



Double Sided Mounting Tape- Notice white backing, permanent, and strong as nails. Works great on plastic surfaces.



Dual Lock - Interlocking plastic mushrooms. Great for ridged quick release mounts.



Hold-It For Rugs - Peel and stick it to bottoms of items that you don't want to slide. Also provides a nice soft cover on rough surfaces.



Industrial Strength Velcro- Quick fastener for light objects



Lok-Lift Rug Gripper Tape- Hundreds of AT solutions that can be constructed in minutes. Found at Wal-Mart and Ace Hardware. Found in the tape or throw rugs section.



Outdoor Carpet Tape- Double side black sticky tape. Great for making battery interrupters. Sticks great on plastics and in wet areas.



Reflexitex Foil Tape- Used in switch making. Found in the insulation department or tape section.



Self-Adhesive Vinyl Bumpers - Great for quickly adapting push button switches.



Wrap-n-Fix Self Fusing Tape - Also called Tommy Tape, also called self fusing tape. Great for fastening odd shaped objects that need to be quickly removed. Found in the plumbing section.

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Binder Clips



Heavy duty glue



Interior And Exterior Mounting Tape - heavy



Magnets



Marker BD Handypanel



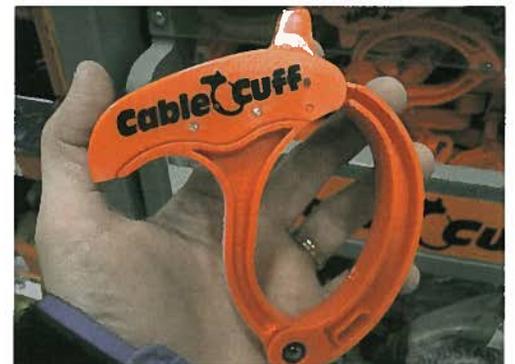
MDF Handy Panel No Sanding Or Staining



Plastic Cutting Knife



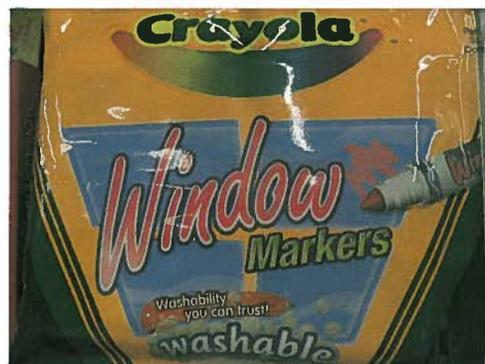
Removable Mounting Strips



Reusable and Adjustable Cable Cuffs



Velcro® Extreme



Window Markers



Wooden Clothes Pins