

COOPERATIVE EXTENSION SERVICE

Departments of
Human Environment and Design
Agricultural Engineering
Urban Planning and Landscape Architecture

MICHIGAN STATE UNIVERSITY

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Repairing & Replacing Screens

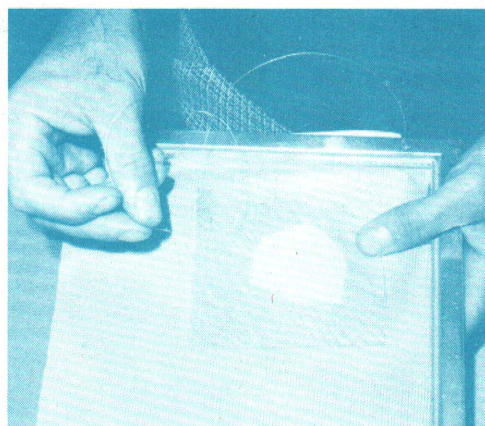
Repairing Screens

Replacing a damaged section or an entire screen can be done with tools usually found around the home and by do-it-yourselfers.

Several different materials are available for screen including aluminum or plastic which are nearly permanent against weather. Galvanized iron screen was used in the past but this material will rust over a period of time and should be replaced before it discolors the window frame and wall.

Screen fabric comes in different widths so choose the width that will cover your frame with the least waste.

REPAIRING HOLES

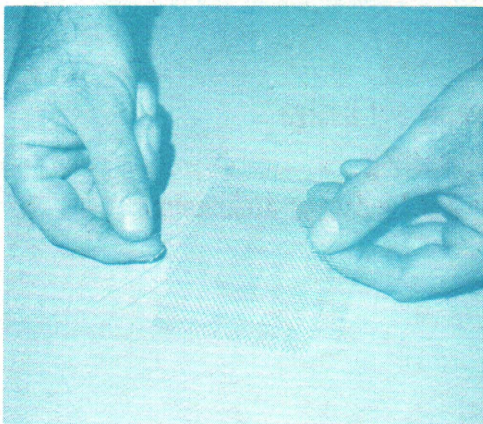


Repairing holes to keep out insects can be done in the following steps:

Method 1

- Step 1. Cut a patch from screen which will cover the hole at least 1" on all sides.
- Step 2. Ravel a long piece of screen wire or several pieces and lace it through the patch and screen.

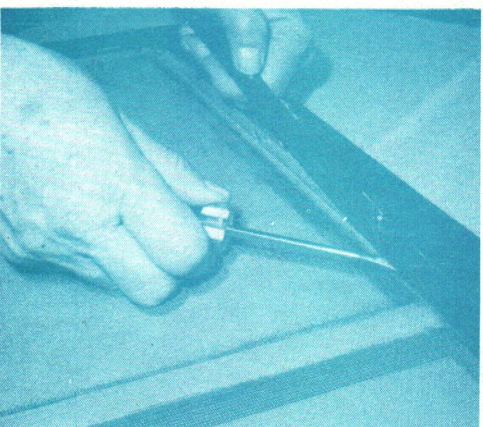
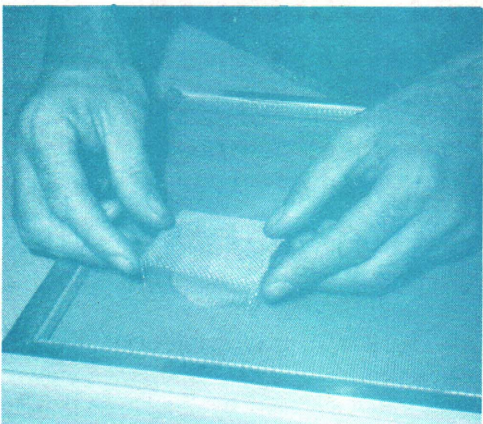
James S. Boyd, Extension Housing Specialist, Agricultural Engineering and Human Environment & Design Departments; Leslie A. Mack, Extension Youth Specialist, Agricultural Engineering.
Photos by Howard Doss



Method 2

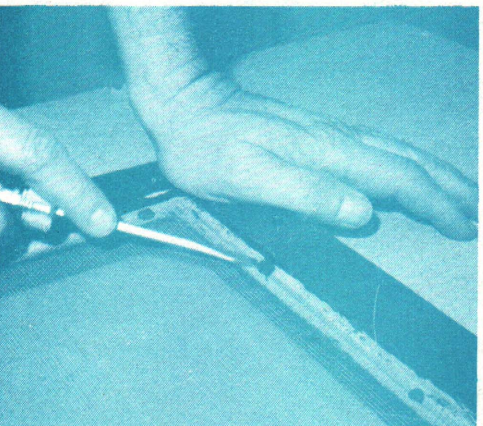
Step 1. Cut a patch large enough to cover the hole with about 1-1/2" around all sides and ravel all sides of the patch about 1/2".

Step 2. Bend the ends of the wire 90° to the patch and push them through the screen covering the hole. Bend over the wires projecting through on the back side to hold the patch.

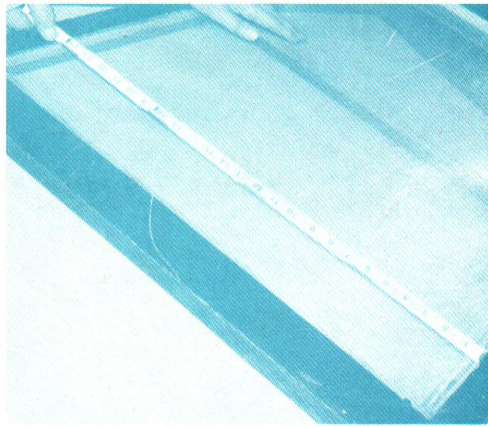


REPLACING SCREEN ON A WOODEN FRAME

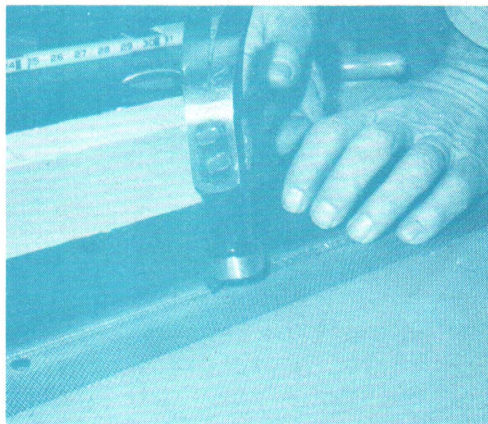
Step 1. Remove wooden strips covering the edge of the screen. Be careful not to break it. Pry up with the screwdriver close to the nails to prevent cracking the strip.



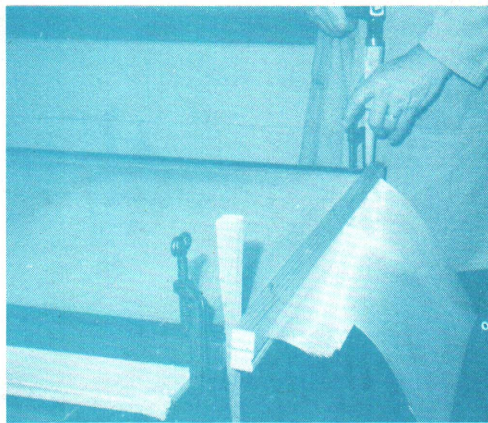
Step 2. Remove the old screen material by taking out the tacks or staples.



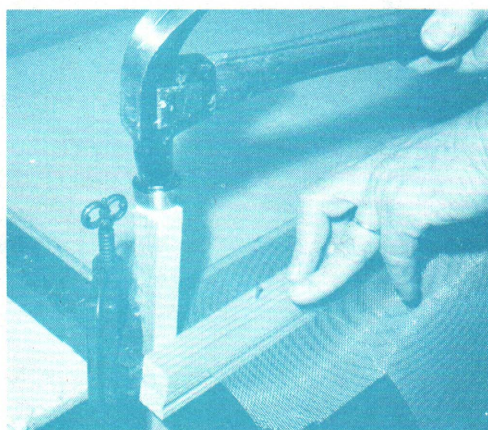
Step 3. Cut the new screen to the width between the shoulders on the frame and 5" or 6" longer than the frame.



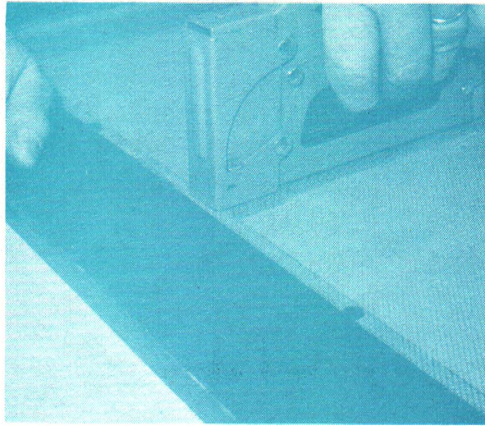
Step 4. Attach the new screen fabric at one end with regular 1/2" carpet tacks. A stapler works good also.



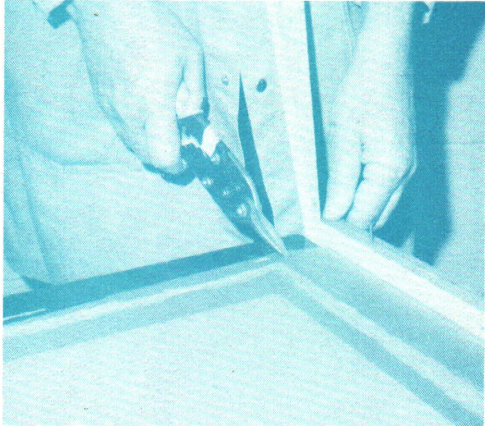
Step 5. Stretch the screen over the frame so it extends beyond the frame at the opposite end. Stretch it tight. One way is to nail two 1" x 1" strips to each side of the screen and to the workbench or large piece of plywood. Be sure the frame is snug up to the 1" x 1" with the loose end of the screen extending over the end of the frame. Another procedure is to clamp the frame to a board or table as shown.



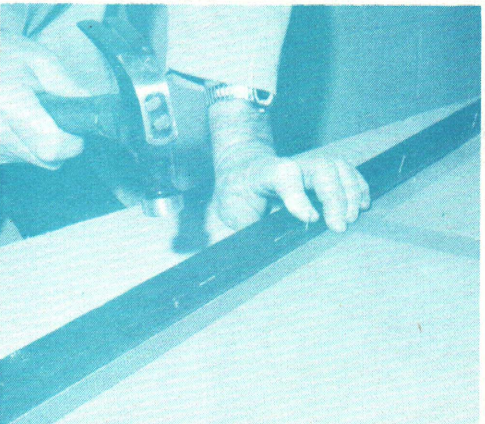
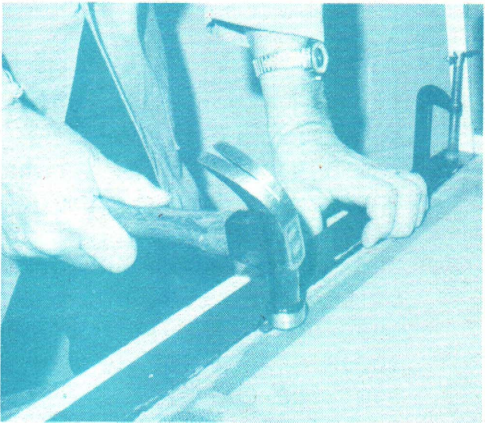
Step 6. Drive a wedge between the frame and the 1" x 1" on both sides of the frame so it tightens the fabric over the frame.



Step 7. Nail or staple the screen fabric on all four sides of each panel about every 4" to 6". Work from center to each end to prevent a bulge from developing.



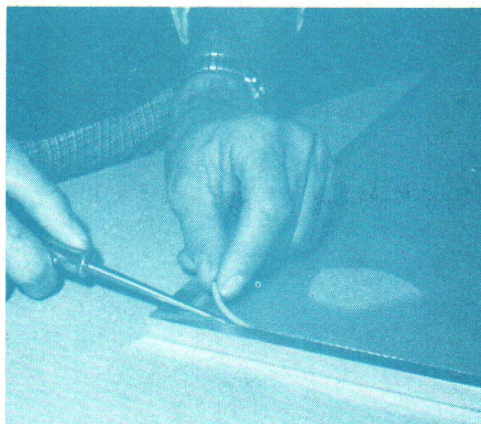
Step 8. Cut off the excess screen with a knife, household shears, or tin snips. A razor blade will also work for plastic. Nail the loose end.



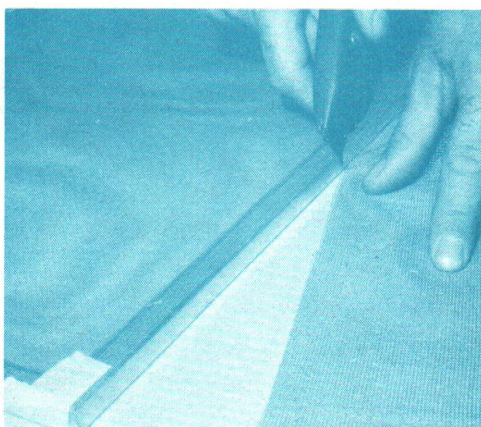
Step 9. Replace the wooden strips around each panel. If they were broken when removed you may have to buy new ones. Paint the entire screen. Keep screen frames painted. When the paint peels off moisture gets into the wood. This can cause the frame to swell and will eventually cause the frame to rot.

REPLACING SCREEN ON ALUMINUM FRAMES

Replacing screen in an aluminum frame can also be done with regular household tools.



- Step 1. Remove the aluminum or plastic retainer strip from around the frame that holds the screen fabric. Be careful not to tear the plastic or break the aluminum strip. An ice pick or other sharp pointed object works good to remove either type of retainer.

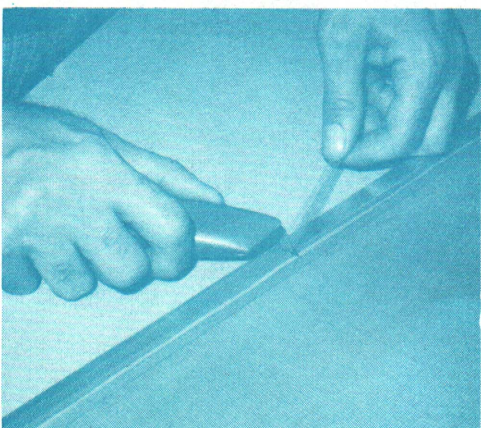


- Step 2. Using the torn screening as a pattern, cut the new screening. Cut the screen at least 1/2" wider than the pattern to be sure there is enough to hold when you put the retainer strip back. Cutting the screen even with the outside of the frame is a good size. Plastic screening is usually used with aluminum frames.



- Step 3. Spread the screening over the frame and press the retainer strip into the groove. Temporarily fastening the screen with masking tape keeps it in place on the frame.

You may need a hammer to force the retainer strip into the groove. Do not strike the metal strip directly with the hammer but use a wood block about 3" or 4" long between the hammer and the strip. If a plastic strip is used it can be forced into the groove by hand pressure on a wooden block 3 to 4 inches long.

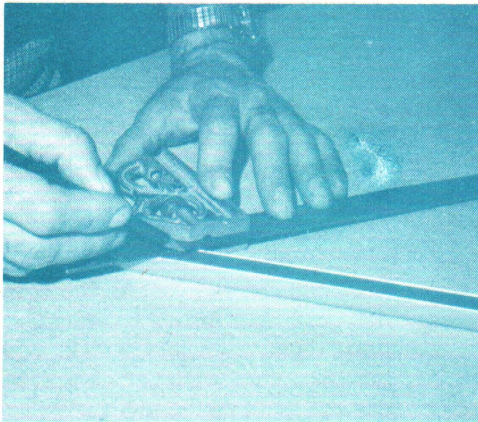


- Step 4. Trim off excess screening with a kitchen scissors or a knife or razor blade.

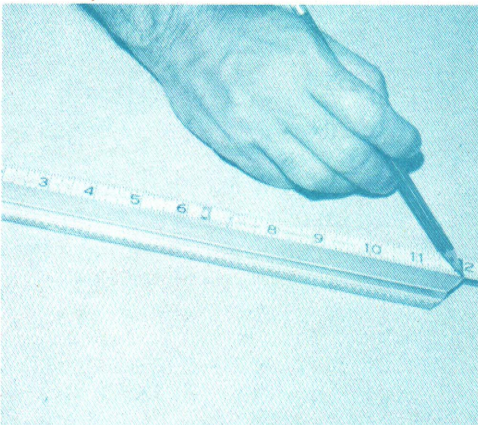
MAKING AN ALUMINUM FRAME

Occasionally a metal screen will fall out, be blown out or otherwise damaged beyond repair. Then there are windows, especially in older houses that are odd size for which a screen is desired.

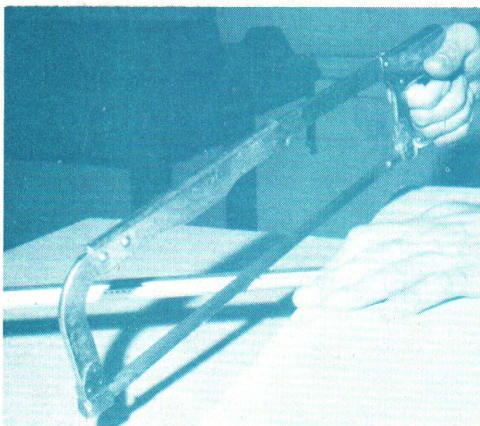
Materials to make a replacement screen or odd-sized screen can be purchased at many building material or hardware stores. The framing material usually comes in lengths of 6 feet so measure the opening into which the frame must fit before you buy the material. Buy enough material to make the four sides. In addition buy a package of four corner braces. Then proceed as follows:



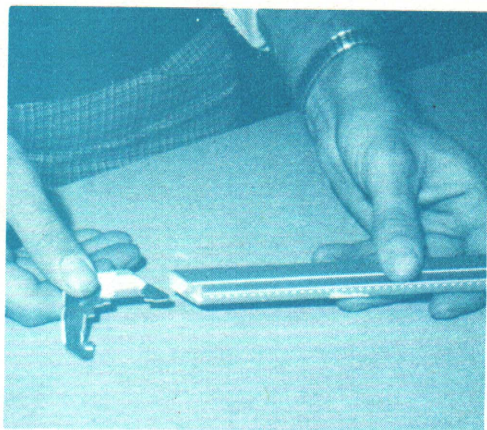
Step 1. Mark off a 45° angle near one end of the material.



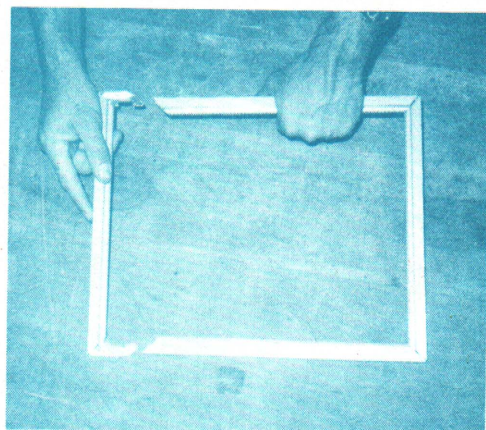
Step 2. Mark off a distance equal to one side of the opening being sure to mark on the long side as shown.



Step 3. Cut another 45° angle so the piece looks like the side of a picture frame.



Step 4. Insert a corner brace into each end of one of the pieces and attach two more sides so you have a "U" shape.



Step 5. Insert the remaining 2 corner braces into the last side and attach to the frame.

Step 6. Install the screen fabric as described in the section on repairing metal screens.

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