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## Windows and Doors

Cooperative Extension Service  
*South Dakota State University*

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# Windows and Doors

Cooperative Extension Service  
South Dakota State University, Brookings  
U. S. Department of Agriculture

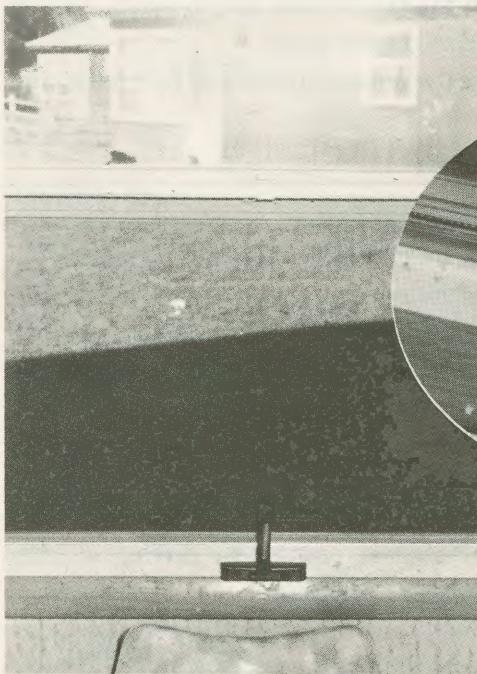
The windows in all of the Sioux 400 homes are of the same size and shape. These windows have been manufactured by two companies, so the way you repair them will be different.

Your house is equipped with either an **Anderson** or a **Cradco** window. The easiest way of telling the

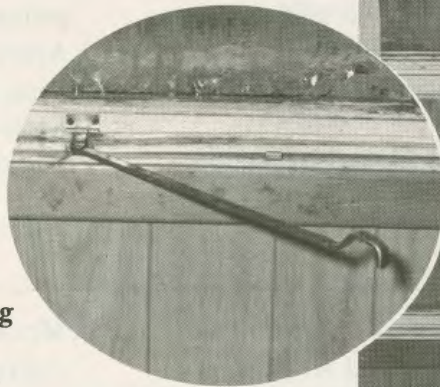
brand of window you have is by the way it opens.

The **Anderson** window has a crank which is turned to open the window.

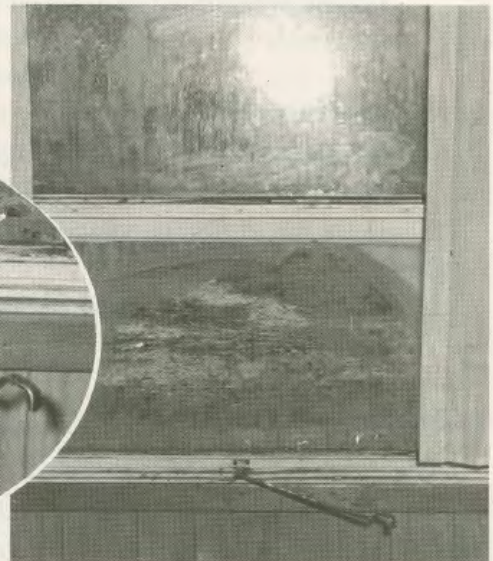
The **Cradco** window has a bar lever which you unlock and push out to open or pull in to close.



**Anderson window also showing enlarged view of opening and closing crank.**



**Cradco window also showing enlarged view of bar lever used to open or close window.**



A broken window should be replaced as soon as possible. There are certain materials that will be needed and certain steps to be followed in replacing a window.

The broken glass should be replaced by the same type of glass whether it be: 1. single pane; or 2. double pane.

## Cradco Window

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### Equipment

Hammer  
Screw driver  
Caulking gun

### Materials

Caulking compound  
Glass  
Fasteners (nails or brads)

### Steps in replacing a broken window:

1. Carefully pick up all of the broken glass.
2. Remove the storm window and place in a safe spot.
3. Remove any broken glass which may remain in the window and proceed to take off the wooden

stripping from the *outside* by prying with a screwdriver. (Try not to damage the wood stripping.)

4. Measure the window for the exact size needed for the new window pane and also determine whether the old window was single or double strength.
5. Get the new pane.
6. Place the new glass in the opening, being careful that it doesn't accidentally fall out.
7. Caulk around the window with caulking compound.
8. Replace the wooden strips by nailing them down with small brads or nails.
9. Wipe off the excess caulk which may have been squeezed out by the strips.
10. Replace the storm window and fasten the clips.

## Anderson Window

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### Equipment

Hammer  
Knife

### Materials

Putty  
Window points

### Steps in replacing a broken window:

1. Carefully pick up and dispose of all broken glass.
2. Remove the storm window and place in a safe spot.
3. Remove any broken glass which may remain in

the window and proceed to remove the wooden stripping by cutting with a sharp knife. (The strips are not reused.)

4. Determine the strength of the glass (single or double) and measure the window opening for exact size.
5. Get the new pane.
6. Place the new glass in the opening being careful that it does not accidentally fall out.
7. Hold the glass in position by driving window points in beside the glass.
8. Apply putty smoothly around the window, covering all of the window points.
9. Replace the storm window immediately to be sure that the putty will not hold it out too far.

## Storm Windows

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The storm windows fit separately into both the top and the bottom window frames and are held by clips. The storm windows have metal frames which are held by glue and tension.

### Steps in replacing a broken storm window:

1. Carefully pick up all broken glass.
2. Remove the storm window frame from the wooden window frame.
3. Remove all broken glass from the metal frame.

4. Measure the size of the metal frame in order to determine the size of glass needed.
5. Determine the strength of the broken glass (single or double).
6. Purchase a new glass of the proper size and strength.
7. Put the frame on the glass.
8. Put the storm window in place and fasten the clips.

## Screens

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There are screen windows for only the bottom section of the regular window because it is the only section that opens.

### Repairing a Screen

A small hole may be repaired by covering with a good piece of screen and sewing around it with a thread such as nylon.

### Types of Screen

There are nylon, plastic, galvanized, louvered and aluminum screen materials. It is recommended to replace the window screen with nylon screen because of the metal pressure strips that hold the screen in place.

### Replacing a Screen

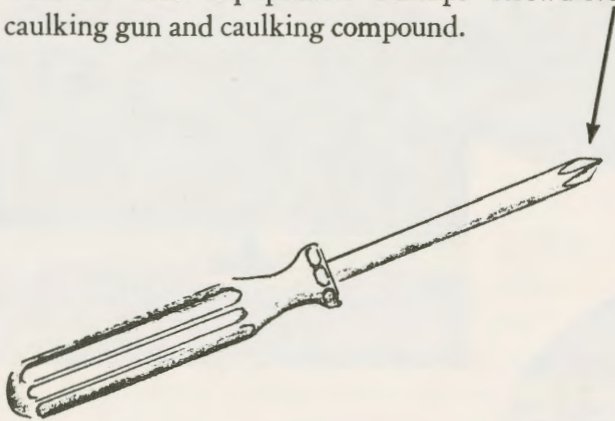
1. Remove the screen frame from the window.
2. Remove the pressure strips by prying them up.
3. Take the old screen out of the frame.
4. Put a new screen over the frame and be sure to keep it straight.
5. Press a pressure strip into the groove but be sure to keep the screen straight.
6. Stretch the screen and press another pressure strip into the groove at the opposite side. (Be sure to keep the screen straight and tight.)
7. Press another pressure strip in position at one end.
8. Stretch the screen to the opposite end and press the last pressure strip in position.
9. Replace the screen on the window.

## Outside Door

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### Replacing glass in outside doors.

Materials and Equipment: Phillips screwdriver, caulking gun and caulking compound.



1. Pick up all the broken glass and dispose of it.
2. Remove the screws holding the inside window frame.
3. Remove any broken glass which was inside the frame.
4. Determine the strength of the glass.
5. Measure the size of the window needed for replacement.
6. Get a window pane of the same size and strength as was determined above.
7. Put the new pane in the window frame.
8. Caulk around the new pane.
9. Replace the inside window frame and tighten the screws.

## Storm Door

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### Repairing the glass in storm doors.

Equipment: Putty knife, hammer. Materials: Putty, window points.

1. Pick up and dispose of all broken glass.
2. Remove the putty and window points around the opening.
3. Determine the strength and size of the old glass.
4. Purchase a new pane the proper size and strength.
5. Place the new pane in the opening.
6. Put window points around new glass.
7. Putty smoothly around the window pane covering all window points.

## Screen Door

You can repair the screen in your screen door. A piece of good screen may be sewn over a hole in the screen door with nylon thread.

### Replacing a screen in a screen door:

Equipment: Hammer, screwdriver. Materials: Small nails, brads or staples.

#### Steps to be followed:

1. Remove the screen frame from the door frame.
2. Pry the wooden strips loose from the outside of the screen frame and remove the old screen.
3. Get a new piece of screen the proper size. (The

new one can be a wire screen, if you prefer that type.)

4. Put the screen in position along one side and nail down the wooden stripping being sure that the screen is straight.
5. Next stretch the screen to the opposite side of the frame and nail down another wooden strip.
6. Nail a strip on one end. (Be sure the screen is straight.)
7. Stretch the screen to the opposite end and nail down the last strip.
8. Replace the screen frame into the door frame.



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