

HOW TO: ADJUST THE KNUCKLE HINGE ON A SWINGING PATIO DOOR

Materials Required

A 3/16" Hex
wrench

A 5/64" Hex
Wrench

A small flat head
screwdriver

Safety Glasses

Gloves and Anti-
Cut Resistant
Safety Sleeves

Milgard in-swing and out-swing doors have two types of hinges. Need help identifying your hinge? [View this document.](#)

In this video, you will learn how to adjust the knuckle hinge (shown below). Adjusting the hinges can help eliminate door drag on the frame, correctly distribute door weight and increase functionality of your swinging door.



Start the hinge adjustment steps only after the door frame is installed, plumb, level and square. The hinge anchor screws must be installed so that the hinge leaves and the door frame are securely mounted to the rough opening. Ensure that the hinges are carrying the panel load. Also, the sill must be flat and level (use shims if necessary).

Note that there are two types of Adjustable Hinges on each door panel:

- There is one Set Hinge per panel. The Set Hinge is located in the center of the panel and carries the weight. The set hinge provides +/- 0.12" vertical adjustment.
- There are two Guide Hinges. They are located at the top and the bottom of the panel. The guide hinges provide +/- 0.12" horizontal adjustment. Look for the visible adjusting screw on the door sash leaf. This identifies the hinge as a guide hinge.

We are ready to begin adjusting the hinges.

1. Always start by adjusting the panel vertically using the center Set Hinge



This activity is appropriate for individuals with an understanding of how to use simple hand tools. Remember to wear eye protection and to make sure that pets and small children are not present when performing these activities.

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2. With the door closed or open, do the following:

- Step 1: Remove the press-fit Finial Cap from the bottom of the Set Hinge to expose the adjustment screw. Use the small screwdriver for Set Hinges featuring a plastic Finial Cap.



- Step 2: Insert the 3/16 hex wrench into the bottom of the Set Hinge. Tighten the screw to raise the panel and loosen to lower the panel. Adjust as needed to ensure vertical gaps are even.



- Then, Reinstall the Finial Cap removed in Step 1.
- Step 3: Use the 5/64" Hex Wrench to tighten the set screw. This will ensure your adjustments stay secure.



3. Next, we are ready to adjust the panel horizontally using the top and bottom Guide Hinges.
- With the door panel Open, Insert a 3/16" hex wrench into the horizontal adjustment screw. Turn clockwise to decrease the margin and counterclockwise to increase the margin on the hinge side. Check gaps to ensure they are even by opening and closing the door panel. Repeat this process as needed.

