



INSTALLATION AND REPLACEMENT INSTRUCTIONS

For residential jamb type garage door hardware

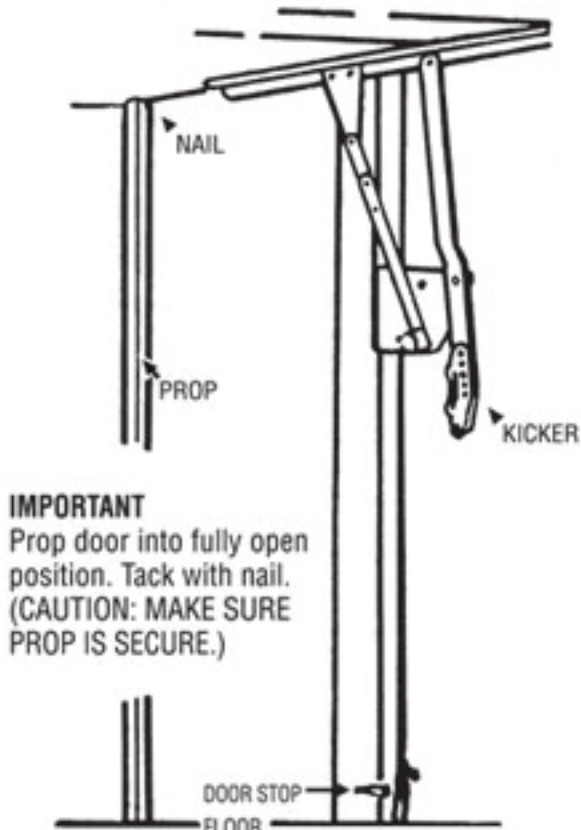
DANGER

For safety reasons, follow instructions exactly. Do not stretch springs until all hardware is permanently attached to both the door and jambs.

To assure long life, oil all pivot joints monthly!

STEP 1

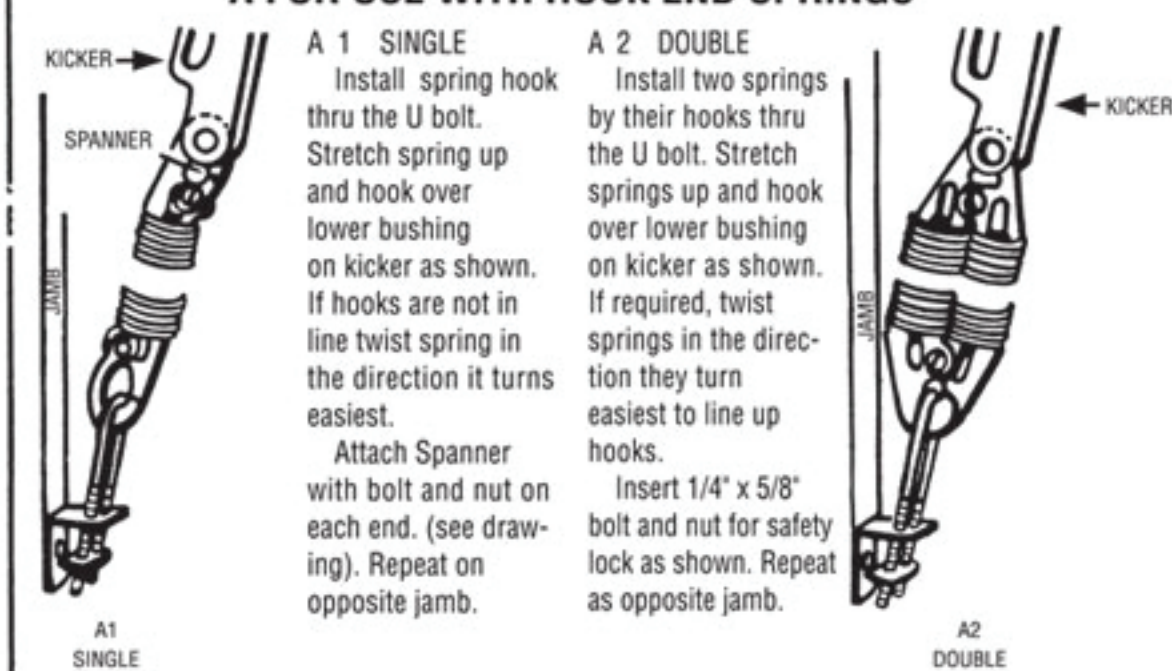
WARNING!
Heavy weight. 2 to 3 people needed to lift door.



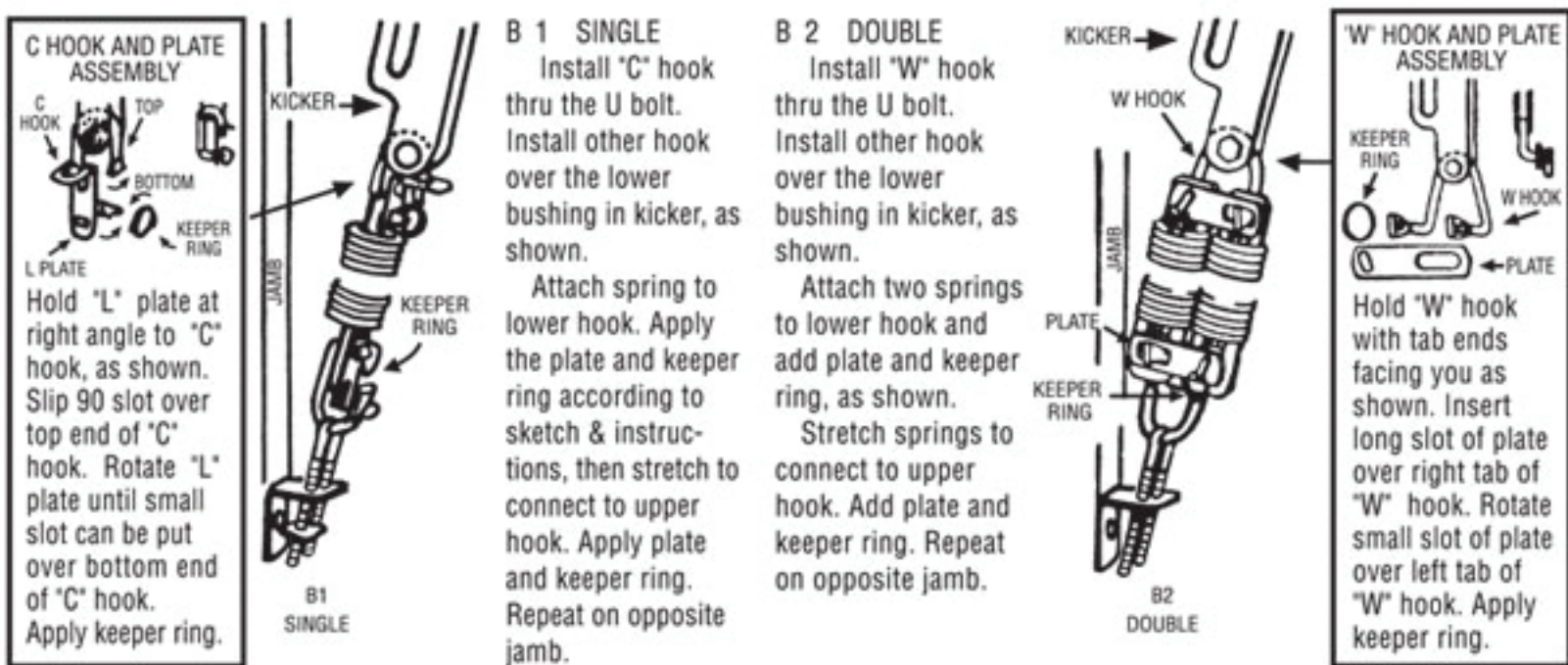
STEP 2

SELECT THE INSTRUCTIONS FOR THE SPRING COMBINATION PROVIDED WITH YOUR HARDWARE

A FOR USE WITH HOOK END SPRINGS



B FOR USE WITH CLIP OR PLUG END SPRINGS



SPRINGS SHOULD BE STRETCHED ENOUGH TO HOLD THE DOOR UP AGAINST THE HEADER IN THE OPEN POSITION, BUT THE AMOUNT OF STRETCH SHOULD NOT EXCEED 2" AT ANY TIME.

If a spring produces excessive noise when door closes, (a) brace door open (b) unhook spring at kicker and (c) twist the end of the spring 180 degrees IN THE DIRECTION IT TURNS MOST EASILY. Hook spring on kicker and put bolt and nut in place.

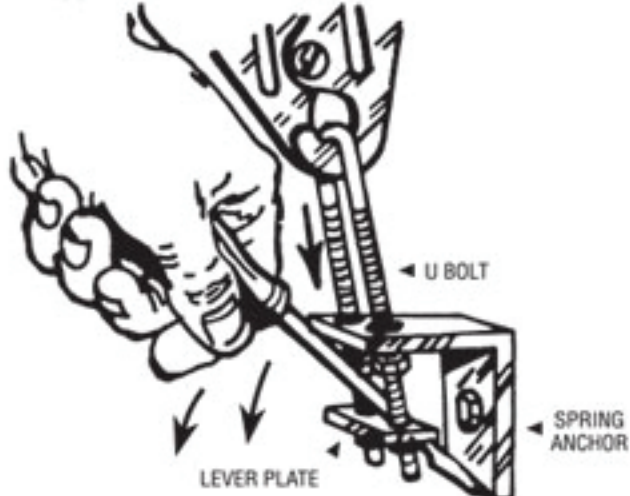
STEP 3

FOR SPRING ANCHOR

A certain amount of pre-stretch of the springs is required to keep the door snug against the header when open. At no time should there be more than 2" of pre-stretch.

Holmes has developed two different methods to do this with the same basic hardware.

1. Using a heavy screwdriver as shown, force down the lever plate. Raise or lower the upper nuts, with screwdriver still in place as required.
2. The second method is to raise or lower the upper nuts with a wrench.



STEP 4

FINAL ADJUSTMENT (IF NECESSARY)

ADJUSTA-MATIC KICKER

- A) If door is hard to pull down, remove extra shoulder bolt from master plate and insert in the first empty hole above bolt already in kicker.
- B) If door comes down too easily, remove extra shoulder bolt from master plate and insert in the first empty hole below the bolt already in kicker.

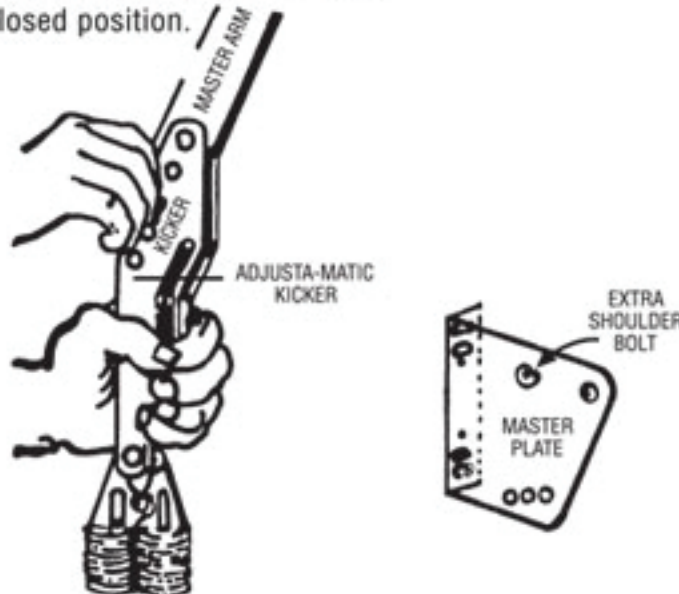
NOTE: If it is difficult to insert bolt into new adjustment hole:

1. Insert bolt as far as possible.
2. Align holes with holes in master arm if necessary.
3. Apply nut.
4. Pull bolt thru by tightening the nut with a wrench until fully inserted.

- C) Put nut on newly inserted bolt.
- D) Remove nut from original bolt.
- E) Remove original bolt.
- F) Repeat on opposite jamb.

WARNING!
Failure to remove bolt and nut as stated in Step "D" and "E" will result in product failure.

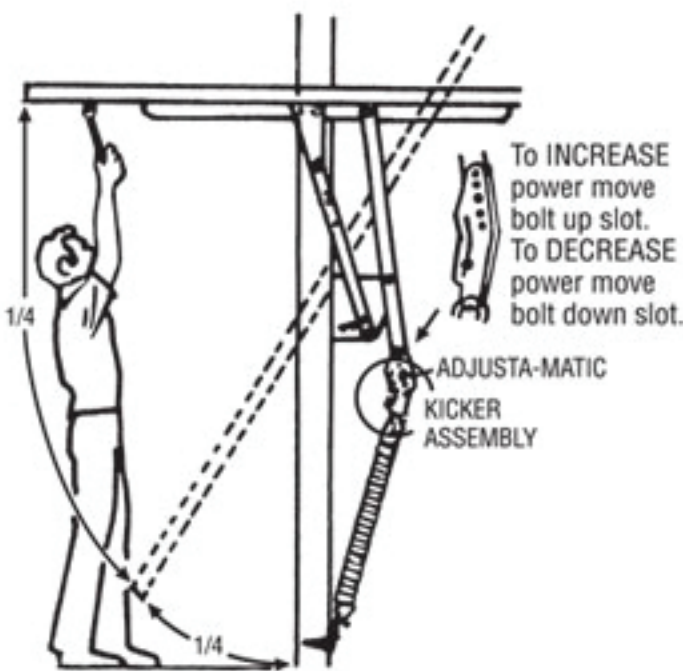
Not only have you quickly changed the leverage hole, you have changed the amount the spring will stretch when the door is in the closed position.



CAUTION: ALWAYS MAKE ADJUSTMENT WHEN DOOR IS OPEN. MAKE SURE PROP IS SECURE. (AS IN STEP NO. 7) REPEAT IF NECESSARY

STEP 5

- A. By spring adjustment shown in Step 10, door should work easily for 3/4 travel.
- B. To make door work easily for 1/4 travel, adjust kicker assembly as shown in the circled diagram below. ADJUST ONLY WHEN DOOR IS IN OPEN POSITION.



IMPORTANT INFORMATION

Holmes Hardware and Springs are designed to be mounted on Garage Door Jambs of the following minimum specifications:

- (1) National Forest Products Association, National Design Standards Table 8. 1A Group II or better material (Douglas Fir)
- (2) Minimum Specific Gravity of 0.51 (32 lbs. per cubic ft.)
- (3) Minimum Dressed Size of 1-1/2" x 5-1/2"

Holmes Hardware and Springs installed on jambs without these specifications, including Group III or IV material (Hem-Fir, Redwood, Cedar, etc.), shall nullify the Holmes Limited Warranty. Only use the lag screws provided with the hardware.

Failure to follow the above recommendations can lead to hardware failure, personal injury or property damage.

STEP 6

FINAL ADJUSTMENT

- A. With the door in the open position, check to make sure that the door is centered between the jambs. The gap between the Left edge of the door and the Left jamb should be approximately the same as the gap between the Right edge of the door and the Right Jamb.

- B. If the door is not centered between the jambs, follow these steps:
 1. Determine which side has the smaller gap between the door and jamb. This is the side that will be adjusted.
 2. Securely prop the door open as shown in step 7.
 3. Loosen the top lag screw by turning it one full turn counter-clockwise.
 4. Rotate the top of the master plate toward the center of the door after tapping it with a large rubber mallet until the gap is equalized with the opposite edge of the door. Once equalized, re-tighten the top lag screw. Be sure not to move the master plate.
 5. Verify that the door is centered between the Jambs.

- C. Drive two duplex nails through the small holes in the master plate and into the jamb. Repeat on the opposite door edge.

- D. CHECK AND TIGHTEN ALL BOLTS AND NUTS UPON COMPLETION.

