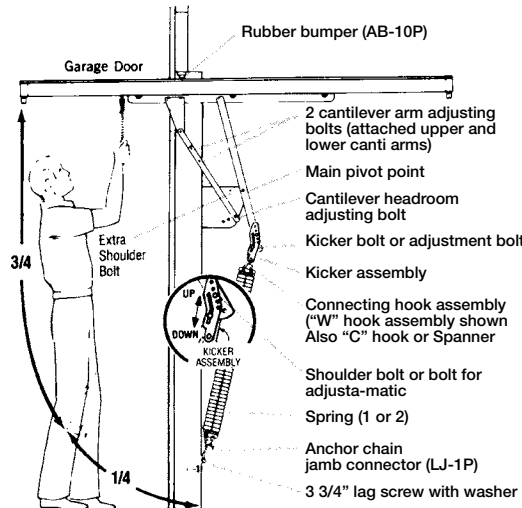


Replacing or Adjusting One-Piece Garage Door Hardware

1. Nomenclature for Jamb Type One-Piece Garage Door Hardware



With Holmes Adjusta-Matic Hardware, You Can Adjust Your Door Without Removing the Springs!

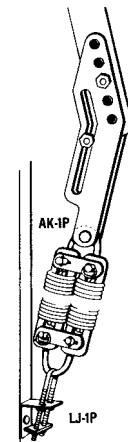
- Holmes makes it EASY to stretch the springs the proper one to two inches and adjust the hardware without ever removing the springs.

- You can replace the Kicker Assembly (AK-1P) and Lower Jamb Connector (LJ-1P) or replace the entire hardware assembly with our One-Piece Hardware Kit (E900)*.

-These parts are engineered and tested for convenience and reliability and fit any Holmes hardware set.

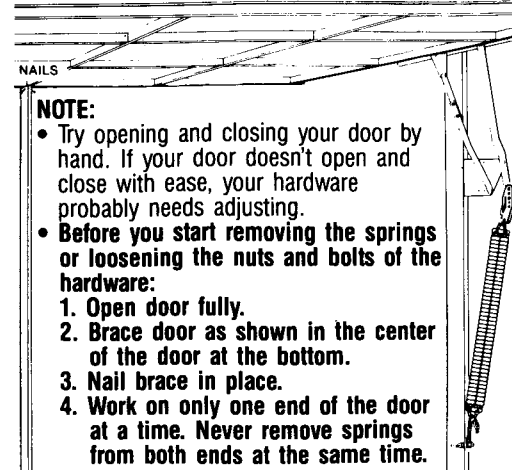
*Recommended if current hardware is worn or dated.

Adjusta-Matic works with "C" hooks for single spring or "W" hooks for double spring applications. Also works with single or double Safety Lock spring configurations.



2. Hardware Adjustment or Replacement Preparation

Do not use for any applications other than one-piece garage doors.



Note: For safe adjustment, factory instructions must always be followed.

| PROBLEM | REMEDY |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IF YOUR DOOR | DO THIS Prop door as explained, then... |
| 1 Is hard to pull down or goes up too fast in its upper 3/4 of travel. | 1A Regular Kicker: Move entire Kicker Assembly "Up" one adjustment hole at a time. Move lower hook "Up" one link on the chain each time kicker is moved "Up" to maintain same spring tension. 1B Adjusta-matic Kicker: Remove extra shoulder bolt from master plate and insert in the first empty hole above the bolt already in kicker. Remove original shoulder bolt before operating door. |
| 2 Comes down too easily or is hard to lift up in its upper 3/4 of travel. | 2A Regular Kicker: Move entire Kicker Assembly "Down" one adjustment hole at a time. Move lower hook "Down" one link on the chain each time kicker is moved "Down" to maintain same spring tension. 2B Adjusta-matic Kicker: Remove extra shoulder bolt from master plate and insert in the first empty hole below the bolt already in kicker. Remove original shoulder bolt before operating door. |
| 3 Is difficult to close or opens too fast in its lower 1/4 of travel. (Or if your door won't stay entirely closed.) | 3 Move bolt "Down" the slot of Kicker Assembly. |
| 4 Closes too rapidly or is hard to open in its lower 1/4 of travel. | 4 Move bolt "Up" the slot of Kicker Assembly. |

After you have solved your adjustment problem, check and tighten all bolts and nuts. DO THIS BEFORE REMOVING THE PROP. Stand clear of door when prop is being removed.

5. Properly Adjusted Hardware Will Make Your Operator Last Longer!

The easier your door opens and closes (and you can test it by hand) - the longer your operator will last.

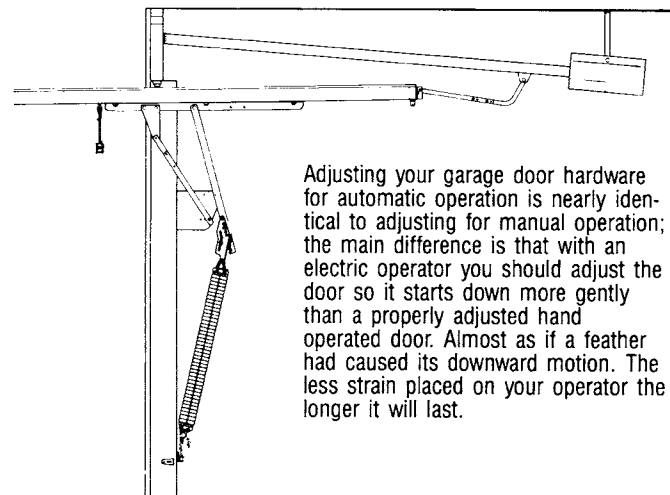
Your door should not race to its full open position or fall freely to its closed position.

Your door should start down with minimal resistance with an electric operator. Your door hardware can be adjusted to achieve this.

THE WARRANTY FOR YOUR OPERATOR IS A SLIP OF PAPER. PROPERLY WORKING SPRINGS AND HARDWARE, HOWEVER, IS ITS BEST PROTECTION.

- Worn hardware will decrease the life of your operator and may cause costly repairs.
- Worn springs, too, may cause your operator to overwork.

6. It's Easy to Adjust Your Hardware for Electric Operators



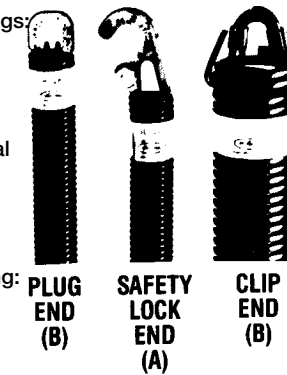
Adjusting your garage door hardware for automatic operation is nearly identical to adjusting for manual operation; the main difference is that with an electric operator you should adjust the door so it starts down more gently than a properly adjusted hand operated door. Almost as if a feather had caused its downward motion. The less strain placed on your operator the longer it will last.

Replacing Broken or Worn Out Springs

3. Replacement Spring Selection

You have three choices when replacing springs.

1. Identify the spring number on your existing springs (e.g., P728, SL528, etc.).
2. Weigh the door and refer to the Spring Selection chart to the right.
3. If 1 or 2 are not feasible, hire a professional installer.



Holmes Springs are marked with the following: Holmes logo, Spring Number (e.g., P728), Patent Number, Maximum Stretch and Manufacture Date.

Important:
Before selecting your spring, you must know the weight of your door.

One-Piece Garage Door Spring Selection

Springs for your garage door hardware are sold separately. Refer to the chart below to determine the appropriate springs for your garage door.

| Door Weight | Quantity Needed | Spring Type |
|-------------|-----------------|---------------|
| up to 75 | 2 | P928 |
| 90 to 150 | 2 | P728 or SL728 |
| 105 to 175 | 2 | P528 |
| 125 to 250 | 2 | P328 |
| 150 to 300 | 4 | P728 or SL728 |
| 200 to 350 | 4 | P528 |

4. Spring Installation Instructions for Safety Lock, Plug End and Clip End Springs.

Important: With the door open and braced, remove springs from one side only (throw springs away). NEVER remove springs from both sides of the door at the same time.

Single Safety Lock Installation
Install spring hook into chain. Stretch spring up and hook over lower bushing on kicker as shown. If hooks are not in line twist spring in the direction it turns easiest. Attach Spanner Plate with bolt and nut on each end. (see drawing)

Note: Your door may utilize a Lower Jamb Connector (LJ-1P) versus a chain mount. Install hooks accordingly.

WARNING:
Do not close door until nuts & bolts are tightened!

Double Safety Lock Installation
Install two springs by their hooks into chain. Stretch springs up and hook over lower bushing on kicker as shown. If required, twist springs in the direction they turn the easiest, to line up hooks. Insert 1/4" x 5/8" bolt and nut for safety lock as shown.

WARNING:
Do not close door until nuts & bolts are tightened!

Single Plug End or Clip End Installation
Install hook into chain. Install other hook over the lower bushing in kicker as shown. Attach spring to lower hook. Apply the plate and keeper according to sketch & instructions, then stretch to connect to upper hook. Apply plate and keeper.

EXCEPTION:
No. 1 & No. 3 Springs

WARNING:
Do not close door until keeper rings are in place!

SPRINGS SHOULD NOT HAVE MORE THAN 2" STRETCH AT ANY TIME WHEN DOOR IS IN AN OPEN POSITION.

Make Sure Your Springs Meet Safety Regulations

It's The Law!

"Every (residential extension) garage door spring sold...or installed...shall be equipped with an approved device capable of restraining the spring or any part thereof in the event it breaks." Excepts from revised California Administrative Code, Title 24, Part 2.

- All Holmes springs sold today in California satisfy the current state safety code - yours may not.
- The complete line of Holmes garage door springs has containment and complies with the current code.
- Holmes safety containment will prevent springs or parts for hardware from flying loose and damaging your operator or your automobile.
- Holmes safety containment will prevent springs from whipping free and causing possible injury to you or your family.
- If you have old style (uncontained) springs, they should be replaced.
- If one spring breaks replace them all, the others can't be far behind.

We highly recommend that you replace your old (uncontained) springs with new Holmes springs.

