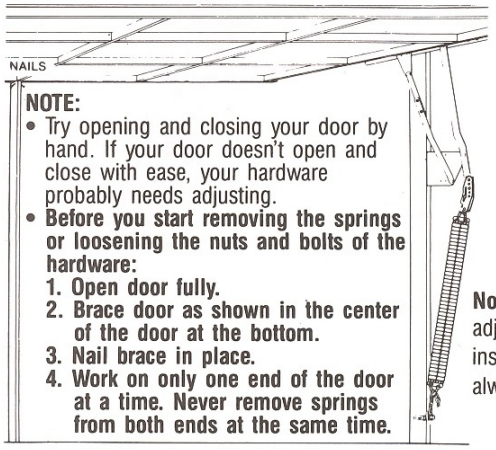
## 1. Spring Adjustment/Replacement Preparation

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




**NOTE:**

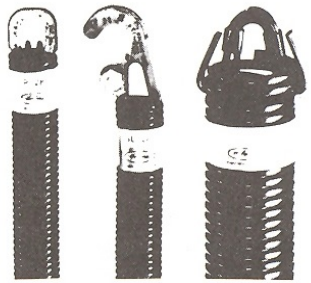
- Try opening and closing your door by hand. If your door doesn't open and close with ease, your hardware probably needs adjusting.
- **Before you start removing the springs or loosening the nuts and bolts of the hardware:**
  1. **Open door fully.**
  2. **Brace door as shown in the center of the door at the bottom.**
  3. **Nail brace in place.**
  4. **Work on only one end of the door at a time. Never remove springs from both ends at the same time.**

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

## 2. Spring Replacement Selection

1. With the door open and braced, remove springs from one end. (Throw them away, they've served you well. They've opened and closed a door that probably weighs 200 to 300 pounds thousands upon thousands of times.)
2. Select "A" or "B" instructions, depending on the style of your new springs.

Appearing on Springs
Cat. No., Pat. No., Max. Stretch.
Mfg. Date, Logo

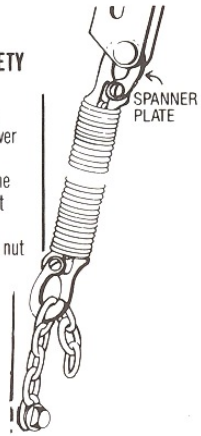


**PLUG END (B)** | **SAFETY LOCK END (A)** | **CLIP END (B)**

## 3. Spring Installation Instructions

### A1 COMPLETED 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 with bolt and nut on each end. (see drawing)

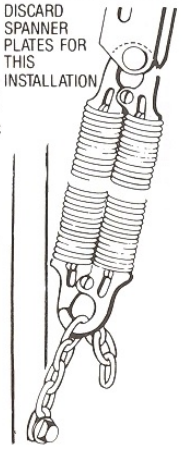



### A2 COMPLETED DOUBLE SAFETY LOCK INSTALLATION

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" R.H. stove bolt and nut for safety lock as shown.

**WARNING:** Do not close door until nuts & bolts are in place!

DISCARD SPANNER PLATES FOR THIS INSTALLATION



### B1 COMPLETED SINGLE PLUG INSTALLATION

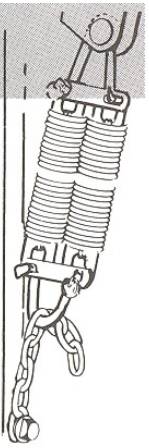
Install hook into chain. Install other hook over the lower bushing in kicker as shown. Attach spring to lower hook. Apply the plate and keeper according to sketch & instructions, then stretch to connect to upper hook. Apply plate and keeper.


### B2 COMPLETED DOUBLE PLUG INSTALLATION

Install "W" hook into chain. Install other "W" hook over lower bushing in kicker, as shown. Attach two springs to lower "W" hook and add plate and keeper as shown. Stretch springs to connect to upper "W" hook. Add plate and keeper.

**EXCEPTION:** No. 1 & No. 3 Springs

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

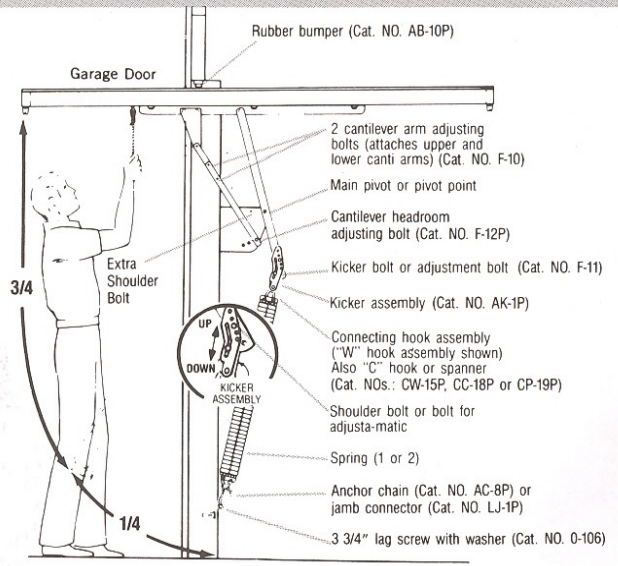


PAT. NO. 4,057,235

NOTE: If a spring produces excessive noise when door closes, (a) brace door open (see panel 1) (b) unhook spring at kicker and (c) twist the end of the springs 180 degrees IN THE DIRECTION IT TURNS MOST EASILY.

**Springs should not have more than 2" stretch at any time when door is in an open position.**

## 4. Nomenclature For Jamb Type One-Piece Garage Door Hardware

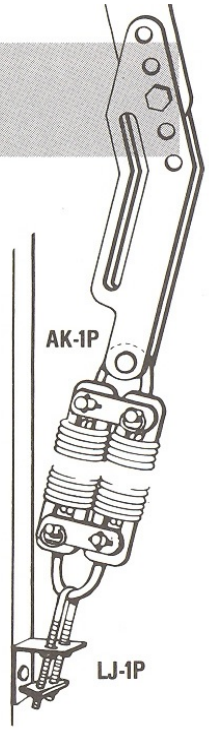



## 5. Never Remove A Spring To Adjust A Jamb Set Again!

AT LAST!

- New tools that permit truly EASY adjustment by the installer or the homeowner. Enables you to stretch the spring the proper one to two inches and to adjust the hardware without ever removing the spring.
- Sleek and smooth, engineered and tested for the ultimate in convenience and reliability.
- Possible only because of an entirely new design of Kicker (Cat. NO. AK-1P) and Lower Jamb Connector. (Cat. NO. LJ-1P).
- Fits any Apex Hardware Set

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




## 6. Don't Expect Your Operator To Lift More Than You Can!

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

Your door shouldn't race to its full open position or fall freely to its closed position.

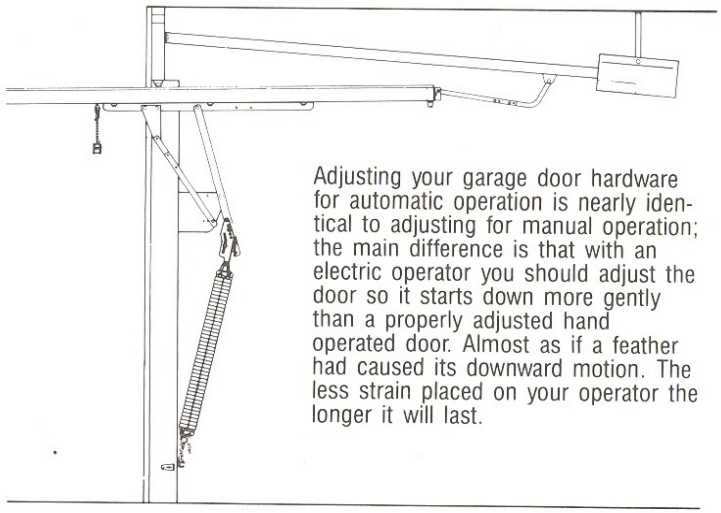
Your door should start down with minimal ease with an electric operator. Your door hardware can be adjusted to achieve this.

**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 you costly repairs.
- Worn springs, too, may cause your operator to overwork.

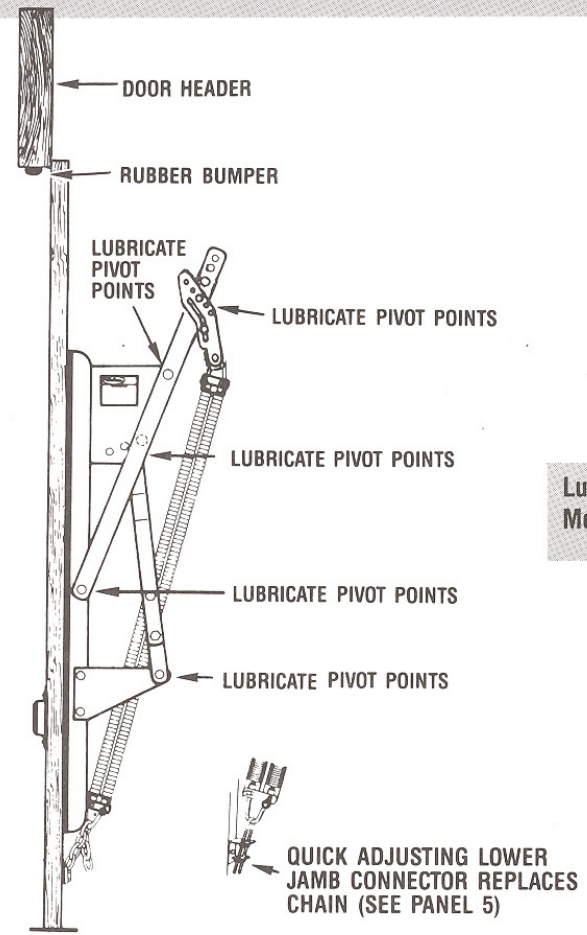
*All Apex springs sold today in California satisfy the current state safety code—yours may not. See "It's The Law!" panel 9, for explanation of this code.*

## 7. It's Easy To Adjust Your Hardware For Automatic Door Operation...Here's How



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.

## 8. The Following Is A Chart To Help You Improve The Operation Of Your Garage Door




**Lubricate Monthly**

| PROBLEM | REMEDY |
|---|---|
| **IF YOUR DOOR...** | **DO THIS Prop door as explained in panel 1, 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.<br><br>**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.<br><br>**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.*

# 9. Don't Risk An Expensive Operator With Out-Of-Date Springs

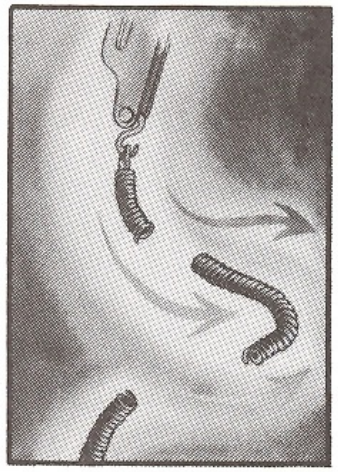
## It's The Law!

"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." Excerpts from revised California Administrative Code, Title 24, Part 2.

- The complete line of APEX garage door springs has containment and complies with the current code.
- If one spring breaks replace them all, the others can't be far behind.
- APEX safety containment will prevent springs or parts of hardware from flying loose and damaging your operator or your automobile.
- APEX 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.

For safety's sake, replace your uncontained springs with the new certified models.

**WITHOUT SAFETY CONTAINMENT**



**WITH SAFETY CONTAINMENT**