

Extension Spring

Low-Headroom

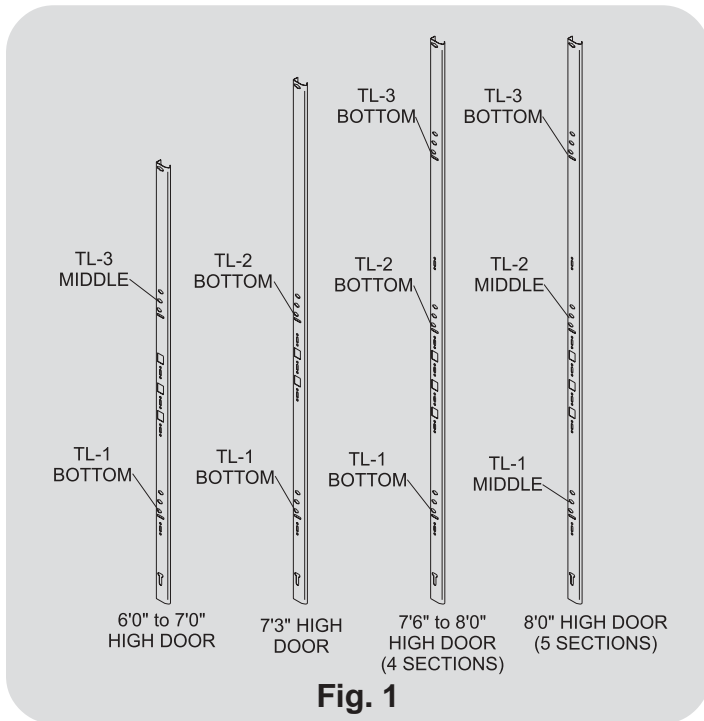
Installation Instruction Supplement

This installation instruction is to be used as a supplement to the manual provided with the door. The figures and instructions included in this document are **ONLY** those which deviate from the standard installation. All **WARNINGS** and **CAUTIONS** listed in the manual are applicable to this low-headroom instruction as well.

Quick Install Jamb Brackets

For 9200/9600/9900 doors use the illustrations in **Fig. 1** to determine the placement of the jamb brackets for your door. Locate the proper jamb brackets by the corresponding holes in the vertical track.

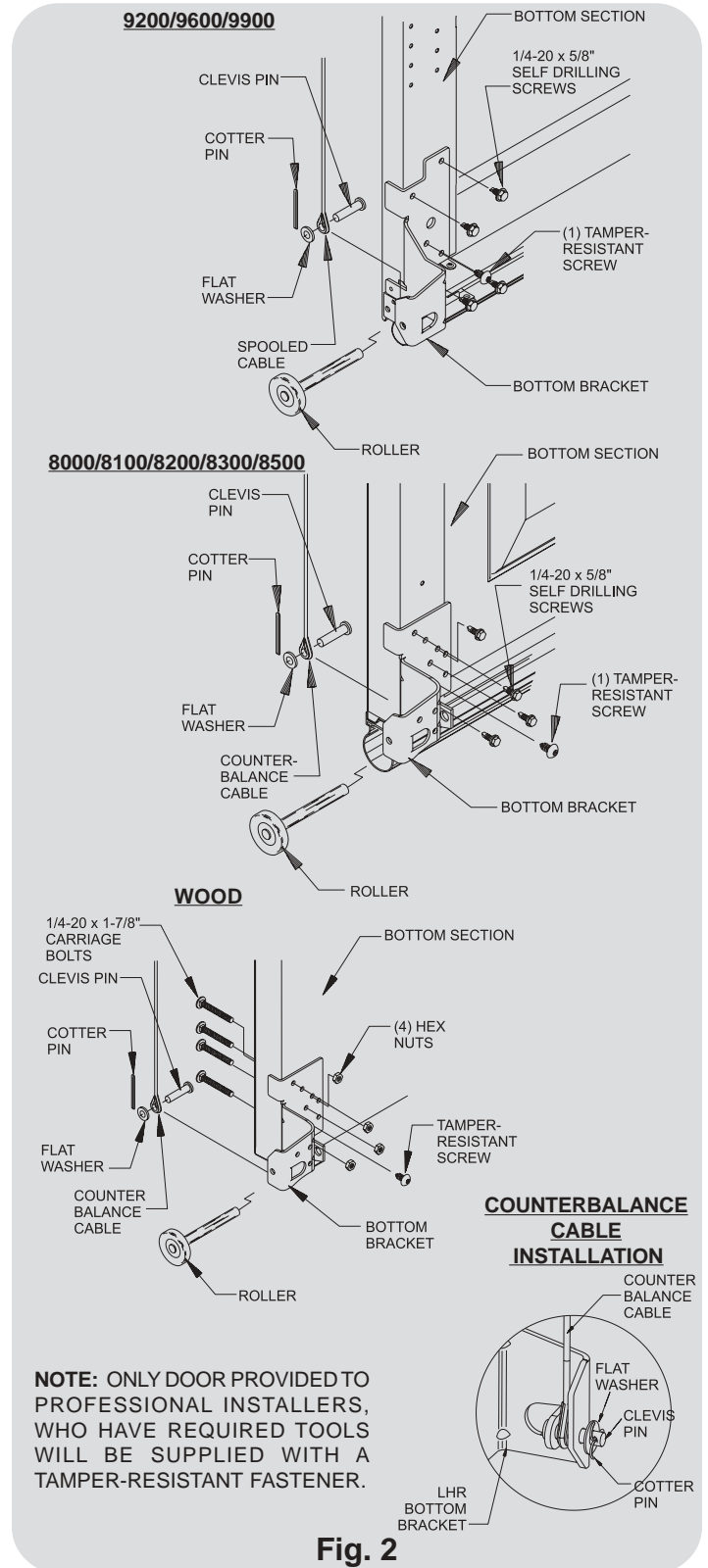
NOTE: Jamb brackets are stamped for identification.



Bottom Bracket Installation

Locate the low-headroom bottom brackets provided for your door (shown in **Fig. 2**) and place them, left and right over the bottom corners of the section. Seat the brackets against the edge of the section. Secure the bottom brackets to the section using (4) 1/4-20 x 5/8" self drilling screws and (1) tamper-resistant screw. Wood doors require (4) 1/4-20 x 1-7/8" carriage bolts and hex nuts plus (1) tamper-resistant screw in each bottom bracket. Using the bracket as a template, mark the location of the bolts. Drill a 9/32" dia (7mm) hole through the section at each bolt location, and secure the brackets to the section with the bolts. The tamper-resistant screw needs to be pilot drilled.

Attach the counter balance cable to the low-headroom bottom brackets using clevis pins. Slide a 3/8" flat washer onto clevis pin and secure with a cotter pin. Place roller through holes or rolled tube in each bottom bracket.



Quick Install Horizontal Track Installation

Place the horizontal tracks over the top of the previously installed vertical tracks as shown in **Fig. 3**. Locate the keyslot in the track over the Twistlock™ tabs on the flagangles. Hold the parts together and tap down on the track to lock into place. Place (1) 1/4-20 x 9/16" track bolt through the slot in the end of the top curve and the appropriate slot in the flagangle, then secure with a 3/8" flat washer and flanged hex nut (do not fully tighten). Level the horizontal track, then tighten the bolt in the top curve. For 1" x 4" x 23" angles see **Fig. 5**.

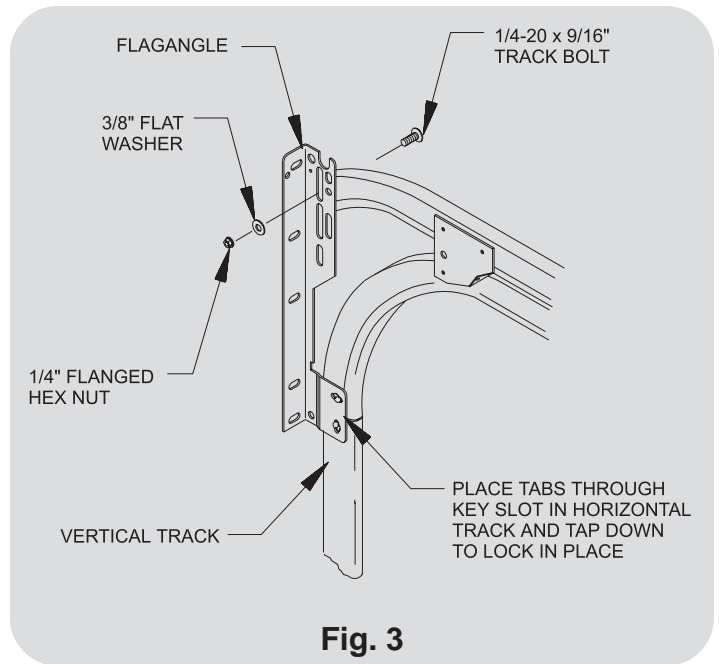


Fig. 3

1" x 4" x 23" Angle Installation

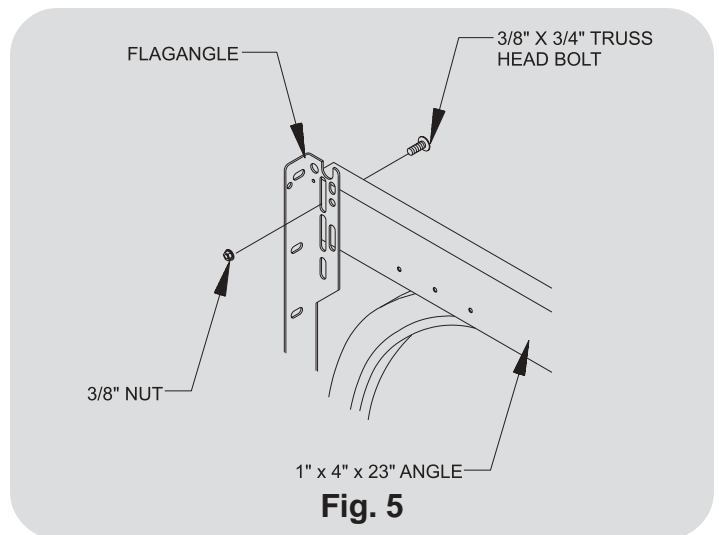


Fig. 5

Universal Horizontal Track Installation

Place the horizontal tracks over the top of the previously installed vertical tracks as shown in **Fig. 4**. Attach the bottom of the lower curve to the flagangle using (1) stud plate and nuts. Secure the upper curve to the flagangle using (1) 1/4-20 x 9/16" track bolt, 3/8" flat washer and flanged hex nut as illustrated. For 1" x 4" x 23" angles see **Fig. 5**.

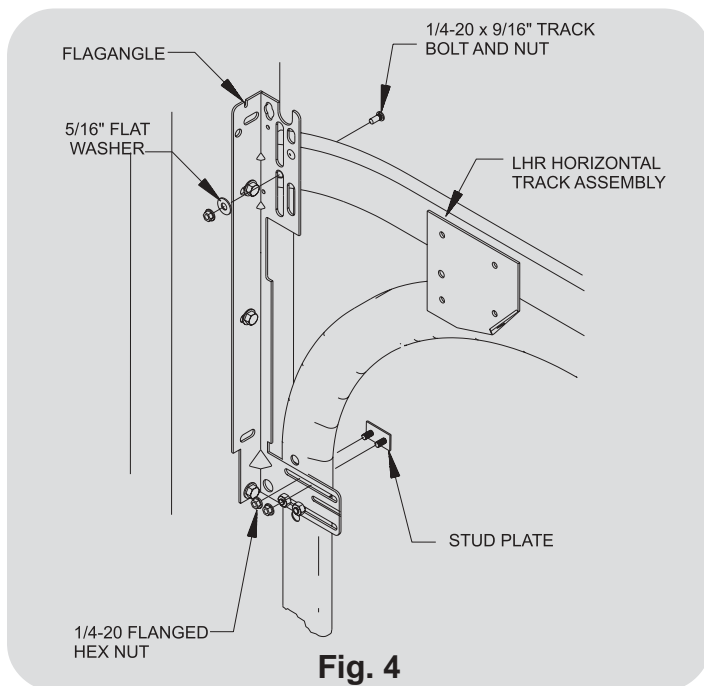


Fig. 4

Secure 1" x 4" x 23" horizontal angle to the flag angle with (1) 3/8 x 3/4" truss head bolt and nut.

Top Bracket Installation

Identify the top bracket supplied with your door. Place a roller into the top bracket as shown in **Fig. 6** and **Fig. 8**. Push the top section of the door out against the jamb until the section is parallel with the other sections of the door. Twist the roller into the upper track and locate the top brackets against the section. Align the edge of the top bracket with the edge of the section.

For **9200/9600/9900** door models, secure the brackets using (4) 1/4-20 x 5/8" self-tapping screws each. (see **Fig. 6**)

The space between the inside edge of the track and the section should be between 1/2" to 5/8", so that the roller stud head does not rub against the track. (see **Fig. 7**)

For **wood doors**, drill a 9/32" dia (7mm) hole into the lower slot of the top bracket and through the section. Secure using (1) 1/4-20 x 1-7/8" carriage bolt and nut. Adjust the brackets if necessary, drill and secure with (2) more carriage bolts and nuts through the top holes. (see **Fig. 8**)

For **other** door models, secure the top brackets to the section by placing (1) 1/4-20 x 5/8" self drilling screw through the lower slot in each bracket. Adjust the brackets if necessary and place (2) more screws through the top holes. (see **Fig. 6**)

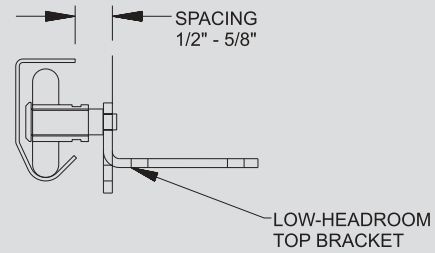


Fig. 7

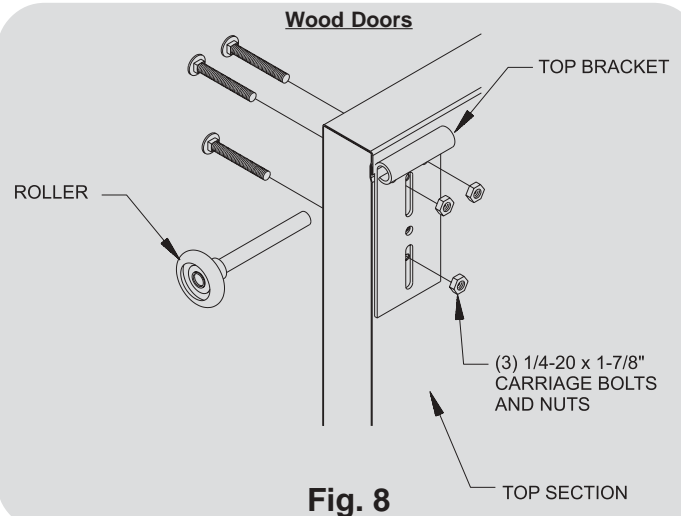


Fig. 8

Cable Sheave Installation

Secure the studded sheave to the hole shown using (1) 3/8" hex nut. Repeat for the other side, then loop the counterbalance cables over each sheave.

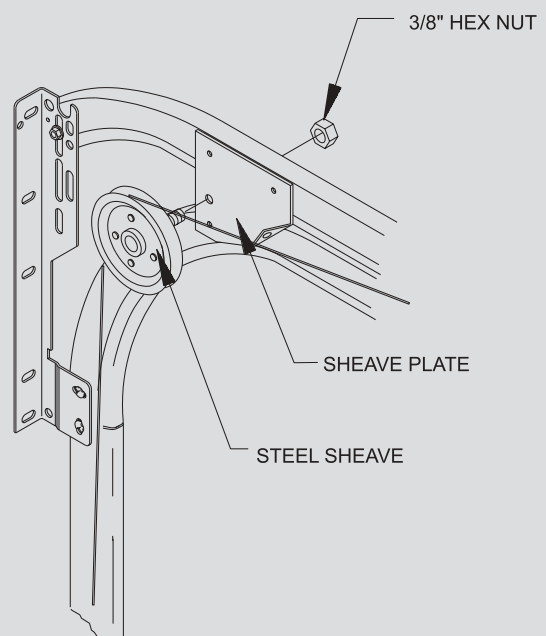


Fig. 9

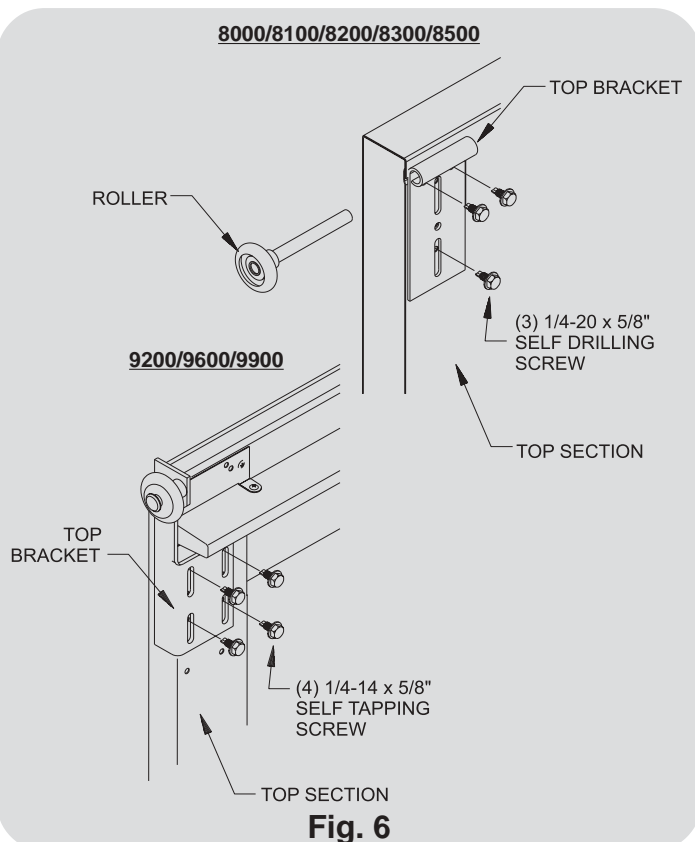
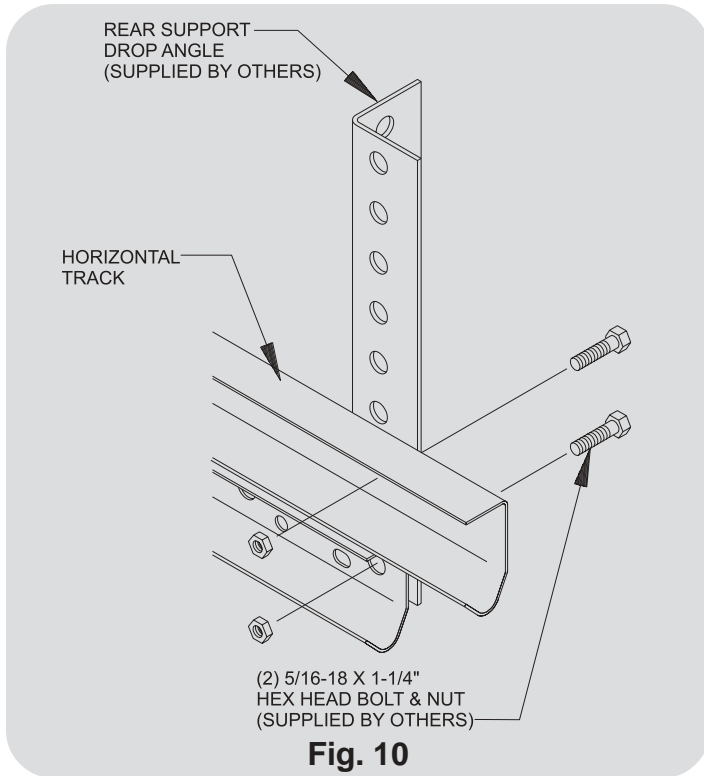


Fig. 6

Back Hanger Installation

With assistance, raise the door until 1-1/2 sections are in the horizontal track. Clamp a pair of locking pliers (below the bottom rollers) onto the straight leg of both vertical tracks to prevent the door from falling. Move the horizontal track until it is parallel with the edge of the door, then secure the lower horizontal track to the rear support drop angle using a



5/16-18 x 1-1/4" bolt and nut. Drill a 5/16" hole through the top horizontal track and secure with a 5/16-18 x 1-1/4" bolt and nut to be used as a roller stop (see Fig. 10).

REAR SUPPORTS SUPPLIED BY OTHERS (NOTE: LATERAL BRACE MUST ALWAYS BE USED TO PREVENT SWAYING OF THE HORIZONTAL TRACK.)

NOTE: With assistance, raise the door into the horizontal track until the bottom section is even with the header and clamp a pair of locking pliers (below the bottom rollers) securely onto the back leg of both horizontal tracks to prevent the door from falling.

Place a 5/16" hex nut over the end of each eyehook. Locate the 5/16" x 4" eyehooks through the holes in the extension spring brackets at the rear of the horizontal track. Secure the eyehooks with a second 5/16" hex nut as shown in **Fig. 11**. Secure the snubber cables to the hanger angle using (1) 3 hole clip and a 5/16-18 x 1-1/4" hex head bolt and nut on each side. Hook one end of each extension spring over the eyehooks. Feed the snubber cables through the extension springs and secure the loose ends to the jamb using a 3 hole clip and 5/16" x 1-5/8" lag bolt as shown. Place a sheave fork through the loose end of each spring and secure a steel sheave to it using (1) 3/8-16 hex head bolt and hex nut each.

Feed the counterbalance cables over the steel sheaves as shown. Secure the cables to the track by tying a 3 hole clip to the end of the cables and hooking an "S" hook into the 3 hole clip and the sheave plate of the horizontal track.

NOTE: SEE THE PROVIDED INSTALLATION MANUAL FOR INFORMATION ON ADJUSTING THE CABLES.

