

WeatherGuard™ Series

with DuraSafe System

OWNER'S INSTALLATION AND MAINTENANCE INSTRUCTIONS

RESIDENTIAL ONE AND TWO CAR DOORS



P.O. Box 288 • Winston-Salem, NC 27102-0288
www.amarr.com

⚠ DANGER ⚠
High Spring Tension can cause severe injury or death. Do not attempt to remove, repair or adjust torsion or extension spring assemblies, red-coated fasteners, or the hardware to which the red-coated fasteners are attached. Removal, adjustment or repair must be made by a professional door repair person.

⚠ WARNING ⚠
Failure to comply with these instructions invalidates the warranty

IMPORTANT

This door meets DASMA-116 pinch resistant requirements when installed with hardware shown in these installation instructions.

Before you begin the installation, read *all* of the instructions thoroughly.

WE RECOMMEND THAT INSTALLATION AND/OR REPAIR OF GARAGE DOORS BE PERFORMED BY A QUALIFIED GARAGE DOOR INSTALLER.

We recommend that a team of two individuals perform installation.

Both one and two-car doors are installed in the same manner. Door widths up to 10' do not require struts unless purchased for reinforcing door for electric operator.

Notice to Architects and Designers

Architects and designers should consider when designing a building the forces a garage door system transmits to the building structure openings, such as the jambs, anchor pads, headers, and horizontal track. Since these forces vary, load information may be obtained by contacting Amarr's Engineering Department.

Damage to the garage door due to an improperly installed or adjusted electric opener is not covered by Amarr's warranty.

Disconnect and remove all locks and pull ropes when you install an electric opener.

Number of door sections and number of panels may vary from illustrations.

Be sure all warning labels and tags are properly affixed to door and that the Home Owner Information Bag is posted on the door jamb and warranty information is filled out.

For electric operation the top section of all doors must be re-inforced. See page 6.

TOOLS REQUIRED

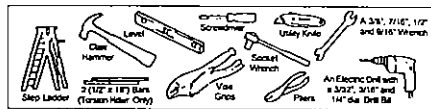


TABLE 1 – HEADROOM CHART

Type of Spring	Track Radius	Minimum Headroom Required
Extension 12"	12"
Extension 15"	15"
Torsion 12"	12"
Torsion 15"	15"

TABLE 2

SECTION HEIGHT AND # CHART

DOOR HEIGHT	BOTTOM SECTION	2ND (LOCK)	3RD	4TH	5TH
6'0"	18"	18	18	18	—
6'3"	21"	18	18	18	—
6'6"	21"	18	18	21	—
6'9"	21"	21	18	21	—
7'0"	21"	21	21	21	—
7'6"	18"	18	18	18	18
7'9"	21"	18	18	18	18
8'0"	21"	18	18	18	21

Step 1:

The garage door opening **must** be the same size as the door, (Figure 1). The opening should be framed with 2"x6" wood jambs. The jambs must be plumb and the header level for a square opening. The jambs should extend to the same height as the headroom required, (Table 1). All jamb fasteners should be flush with jambs and securely anchored to the wall. Temporarily nail the perimeter seal to the edges of the jambs, flush with the inside (Figure 1).

Note: Check the section height chart, (Table 2) to insure proper placement of sections. Except for bottom section all equal size sections are interchangeable. The inside of the sections have predrilled holes for most fasteners. The top of the sections have a tongue (Figure 4).

INSTALLING THE BOTTOM SECTION HARDWARE

Step 2:

Place the bottom section face down on 2 or more sawhorses, (Figure 2). It is recommended to cover tops of saw horses with carpet or cloth to prevent the door sections from being scratched or damaged. Install astragal (bottom seal) in aluminum retainer (if not already done).

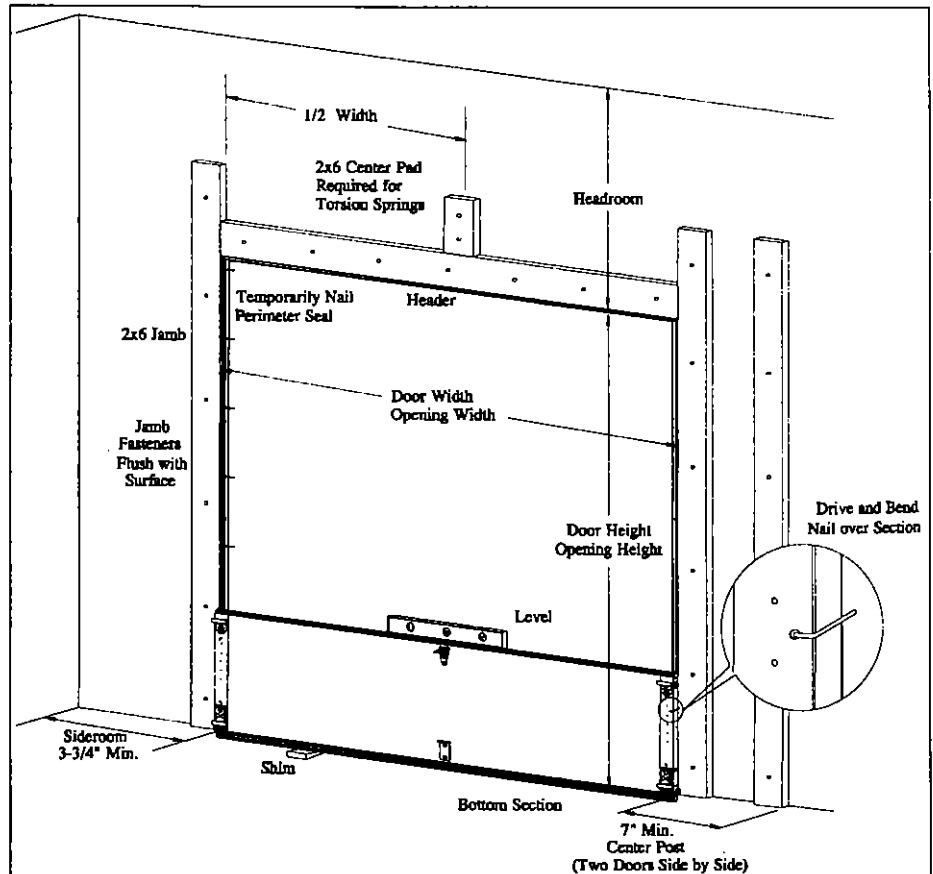


FIGURE 1

**Step 2a:
Safety Bottom Bracket Installation**

Locate safety bottom brackets, slide slider portion of bottom bracket down to expose holes in base plate. Align bottom bracket (left and right) to the bottom of the end stiles aligning holes in base plate with holes (14, 16, 17) on end stiles (Figure 3). Attach each bottom bracket with (3) 1/4" x 5/8" universal screws. Secure the lift cable by hooking the looped end of the cable over the lifting stud. If two sets of cable are supplied, use the longer cable as lift cables. Cable guides should be on each end of the bottom section (Figure 2).

Note: Holes in stiles may not line up with all fixtures, handles and locks. Use 3/32" drill bit to start holes for fasteners where pre-drilled holes are not available.

**Step 2b:
Roller Carrier Installation**

Roller Carriers have numbers stamped on them for identification and their placement on the door is important (Figure 4). All roller carriers are attached to the end stiles with (2) 1/4" x 5/8" universal screws, using holes (6 and 8). The end stiles are marked to provide a footprint of the roller carrier (Figure 3).

**Step 2c:
Center Hinge Installation**

Locate the center hinge(s), rotate and insert the hinge(s) into the hinge pocket(s) as illustrated (Figure 2). All center hinges are attached along the top edge of the sections using (2) 1/4" x 5/8" universal screws.

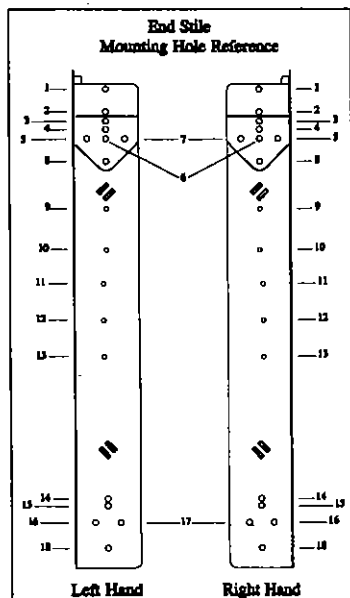


FIGURE 3

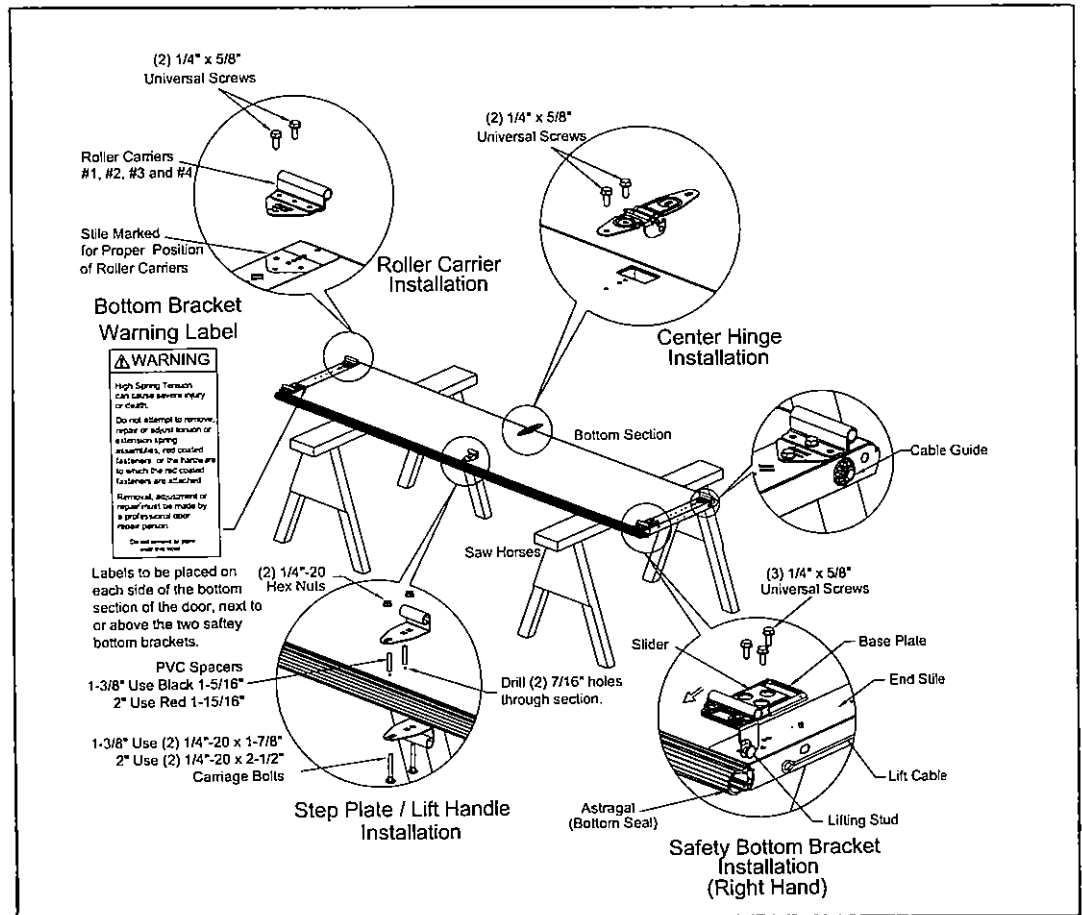


FIGURE 2

Note: If your door is supplied with struts, they must be attached according to (Figure 4). See strut schedule (Table 3) for location(s) of struts. All struts except on top section are to be attached on top of the roller carriers and center hinge(s).

DOOR WIDTH	8'6" & 7' TALL 4 SECTIONS	7'7" & 8' TALL 5 SECTIONS
12" & 14' FT.	TOP SECTION	TOP SECTION & 4TH SECTION
16" & 18' FT.	TOP SECTION	TOP SECTION & 4TH SECTION
17" & 18' FT.	TOP SECTION, 2ND & BOTTOM	TOP SECTION, 4TH, 2ND & BOTTOM

NOTE: IF DOOR IS INSTALLED WITH AN ELECTRIC OPERATOR, THE TOP SECTION OF ALL DOORS MUST BE REINFORCED. SEE PAGE 8.

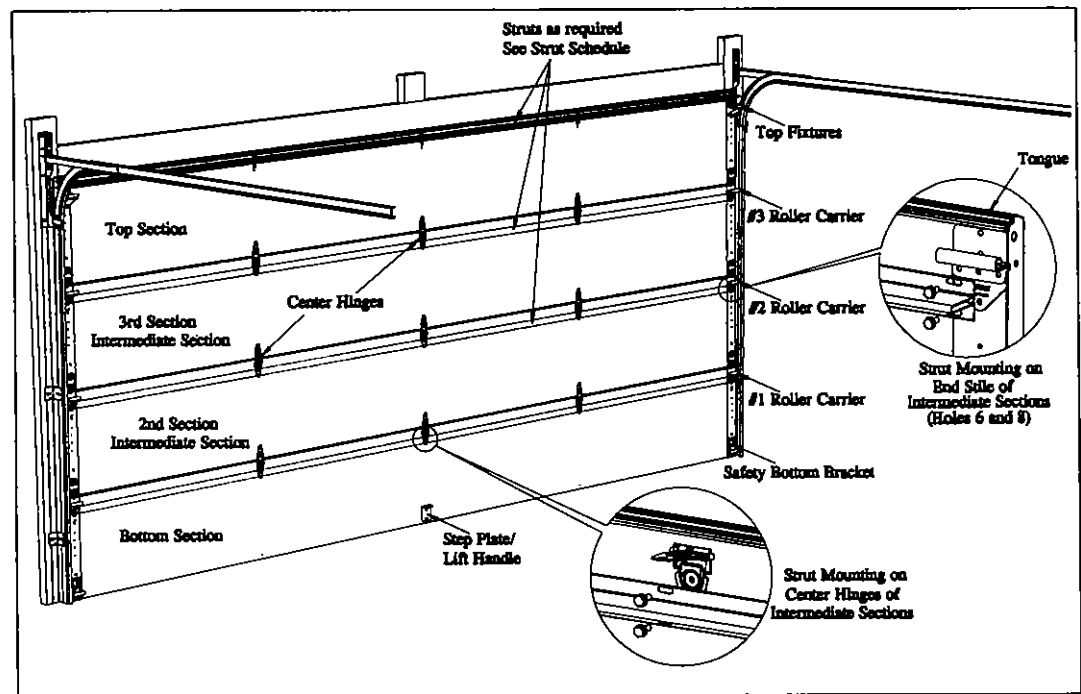


FIGURE 4

Step 2d:

Step Plate/Lift Handle Installation

Drill two 7/16" holes straight through section using the bottom pre-punched holes as a template located at the bottom center of the section. Install two PVC Spacers, Black for 1-3/8" thick doors or Red for 2" thick doors. Install step plate/lift handle using (2) 1/4"-20 x 1-7/8" carriage bolts (head should be on the outside) and nuts (Figure 2). If the door has a lock, the step plate/lift handle should be positioned underneath the lock handle location.

Step 3:

Stacking the Bottom Section in Opening

Place the hardware bottom section in opening against the perimeter seal and centered from side to side. Place a level on the top of the section. If necessary, use piece of wood as a shim under the low side to make level (Figure 1). Note: If it was required to raise one side of the bottom section to level it, that sides vertical track must be raised up the same distance for the door to operate properly. Temporarily secure section in opening by driving a 16-penny nail in the jamb at each end of section and carefully bend it over the edge of the section to secure in place (Figure 1). Make sure that section is securely held in place.



WARNING:

On a windy day door could fall during installation.

Note: Check the order in which the additional sections are to be stacked (Table 2).

INSTALLING THE SECOND (LOCK) SECTION HARDWARE

Step 4:

Place the second (lock) section face down on saw horses. Note: If the door will be installed with a lock, go to Step 4a on supplemental "Classic Lock" Installation Instructions sheet. Install #2 roller carrier as described in Step 2b (Figure 2). Install center hinge as described in Step 2c (Figure 2). Go to Step 5.

Note: If your door is supplied with struts, they must be attached according to (Figure 4). See strut schedule (Table 3) for location(s) of strut. All struts except on top section are to be attached on top of the roller carriers and center hinge(s).

Step 5:

Stacking the Second (Lock) Section in Opening

Place the hardware second (lock) section on top of the bottom section and against the perimeter seal. Temporarily secure section in opening by driving a 16-penny nail in the jamb at each end of section and carefully bend it over the edge of the section to secure in place (Figure 1).

Step 5a:

Center Hinge Installation

Once section is secured, fold upper leaves of center hinges up and attach to second section using (2) 5/16" x 5/8" universal screws (Figure 5).

Step 5b:

End Hinge Installation

Align the end hinge studs with the extruded holes in the edge of the end stiles and insert. Secure with (2) 1/4" x 5/8" universal screws (Figure 5).



CAUTION:

Firmly hold the end hinge in place, otherwise may want to torque away from section.

Secure with (2) 1/4" x 5/8" universal screws (Figure 5).

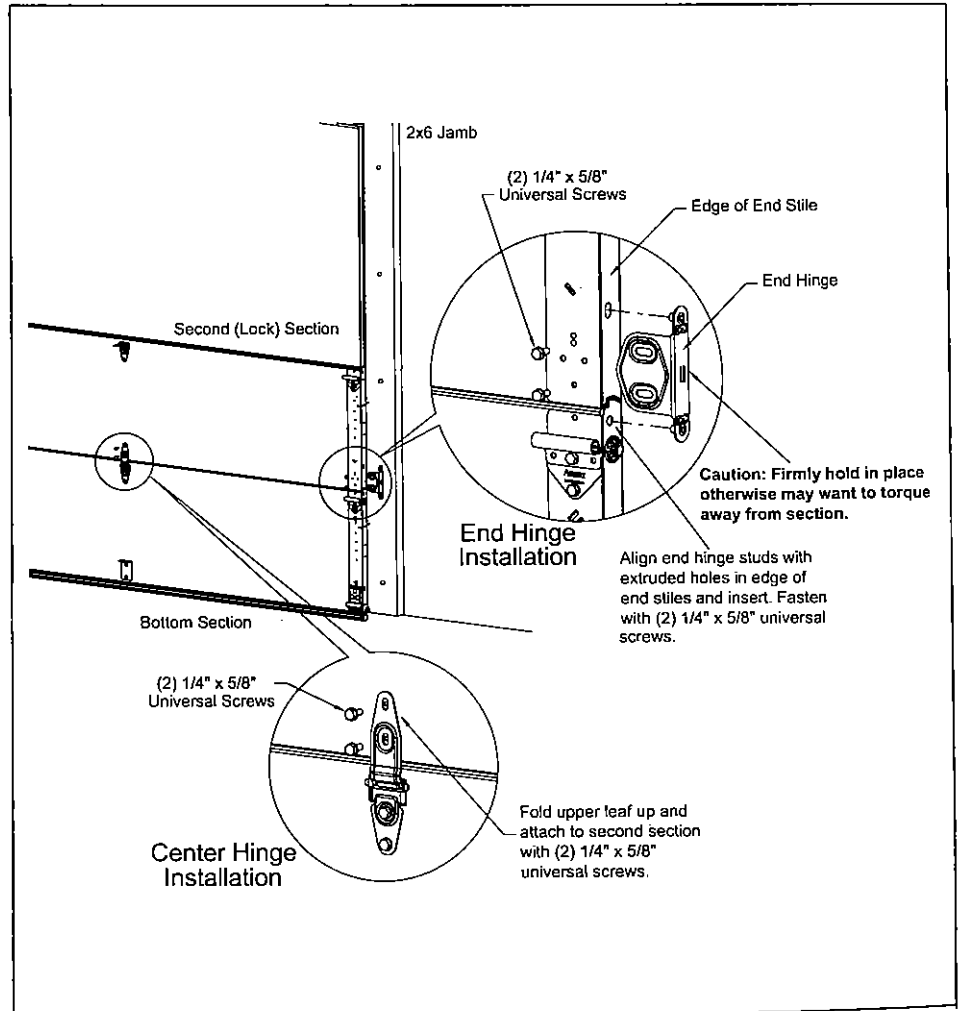


FIGURE 5

INSTALLING THE INTERMEDIATE SECTION HARDWARE

Step 6:

Place the third section face down on saw horses. Install #3 roller carrier as described in Step 2b (Figure 2). Install center hinge as described in Step 2c (Figure 2).

Note: If your door is supplied with struts, they must be attached according to (Figure 4). See strut schedule (Table 3) for location(s) of strut. All struts except on top section are to be attached on top of the roller carriers and center hinge(s).

Step 7:

Stacking the Third Section in Opening

Place the hardware third section on top of the second (lock) section and against the perimeter seal. Temporarily secure section in place as before (Figure 1). Repeat Steps 5a and 5b (Figure 5). **Note:** If you have two sections remaining, repeat Step 6 using a #4 roller carrier and Step 7 for the fourth section.

INSTALLING THE TOP SECTION HARDWARE

Step 8:

Place the top section face down on saw horses and if strut required, (Table 3) install along top rail of section using (2) 1/4" x 5/8" universal screws and holes (1,2) on each end stile (Figure 6). Attach strut between end stiles with (2) 1/4" x 5/8" universal screws and (1) strut clip at each hinge pocket along top rail (Figure 6). Align top fixtures with holes (5,7,9) (Figure 6) on the top corner of each end stile and secure in place as shown using (3) 1/4" x 5/8" universal screws; sliding roller carrier may be installed on top or bottom of top fixture. (Figure 6).

If no strut required. Align top fixtures with holes (5,7,9) (Figure 7) on the top corner of each end stile and secure in place as shown using (3) 1/4" x 5/8" universal screws, sliding portion of top fixture should be on top (Figure 7). Install pocket plug(s) at each center stile location as shown in (Figure 7).

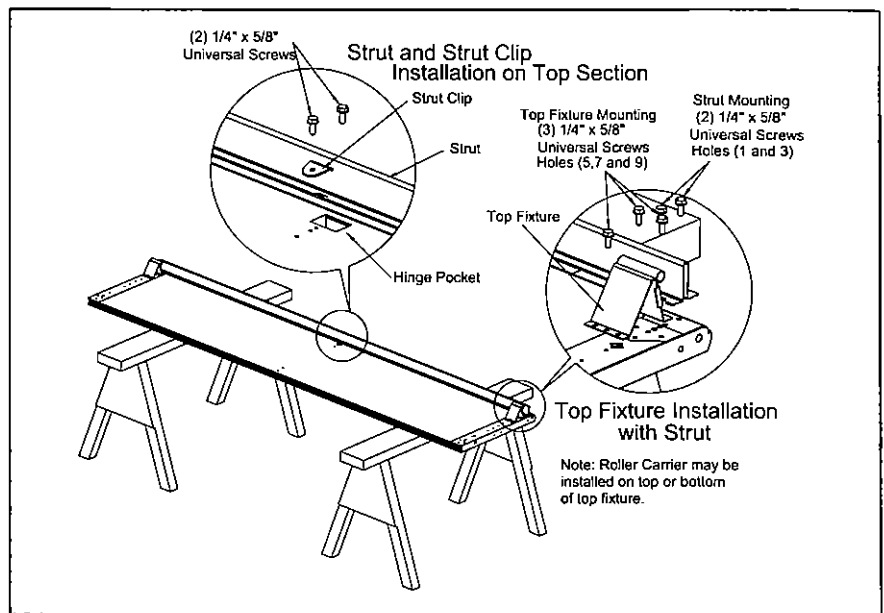


FIGURE 6

Step 9:

Stacking Top Section in Opening - Place the hardware top section on top of the third or fourth section and against the perimeter seal. Temporarily secure section in place as before (Figure 1). Repeat Step 5a (Figure 5).

Step 10:

Installing Rollers - Insert rollers in all roller carriers, safety bottom brackets and top fixtures (Figure 8).

VERTICAL TRACK ASSEMBLY

Step 11:

Jamb Bracket Attachment - There are two sizes of jamb brackets. The jamb brackets are numbered for identification. The smallest (Number 1) jamb bracket is to be installed closest to

the bottom of the vertical track (Figure 9). Loosely attach with (1) 1/4" x 5/8" track splice bolt and (1) 1/4"-20 hex nut. **Note:** 1/4" hex nuts always go on the outside of the track curve, short side of bracket, and track toward the jamb. Loosely attach second jamb bracket (Number 3 or 4) toward the top of the vertical (Figure 9). Hand tighten.

Step 12:

Flag Bracket Attachment - Loosely attach flag brackets to the top of the vertical track with (2) 1/4" x 5/8" track splice bolts and 1/4"-20 hex nuts. **Note:** Nuts always go on the outside of the track with the flat side of flag, and track facing toward the jamb (Figure 9). Hand tighten.

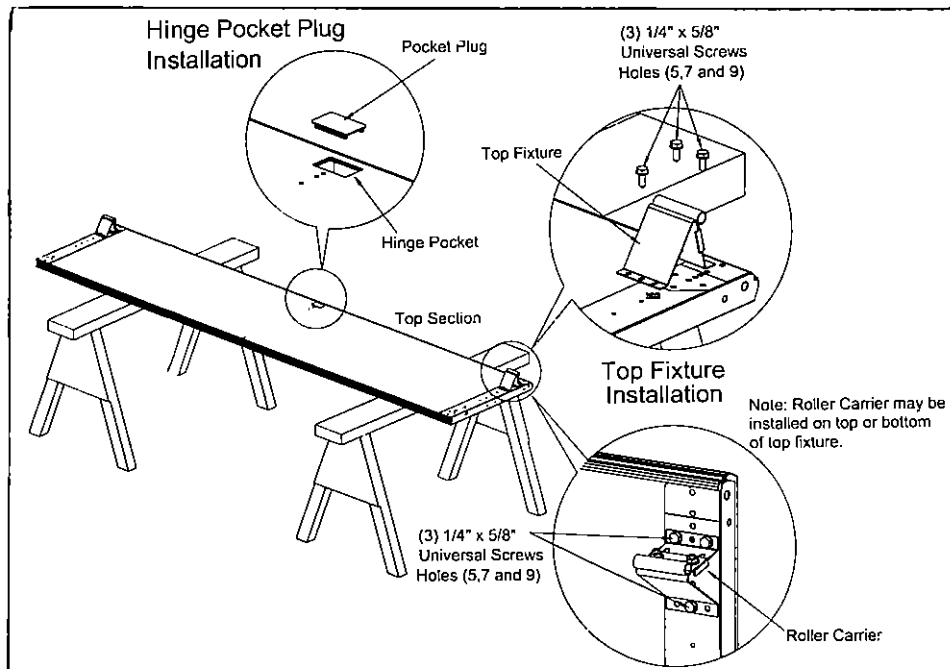


FIGURE 7

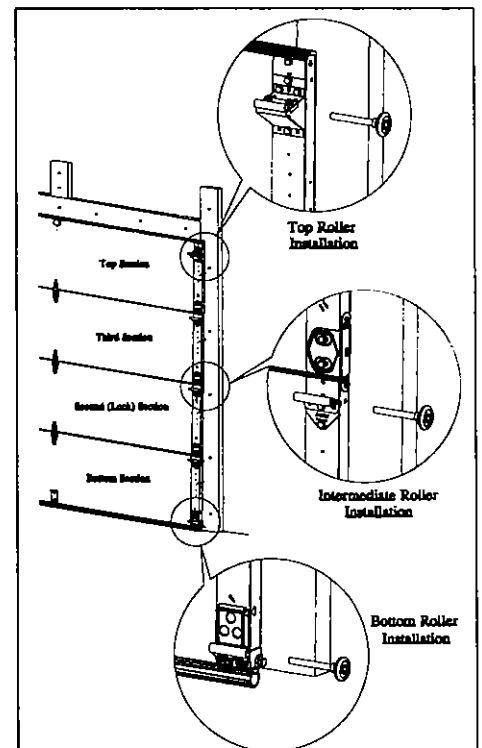


FIGURE 8

Step 13:

Positioning Track on Door — Place the vertical track with jamb brackets attached over the rollers (Figure 10). **Note: Maintain 3/8" space between door edge and vertical track, tops of vertical track must be level with each other.** (To determine, measure from top of tracks to top of door. If not level, raise track but not higher than bottom rollers.) Vertical tracks must be plumb.

Step 14:

Mounting Vertical Track to Jamb — With track properly aligned, securely fasten jamb brackets with (1) 5/16" x 1-5/8" lag bolt and the flag brackets with (3) 5/16" x 1-5/8" lag bolts to jambs (Figure 11). **Note: Pre-drill 3/16" hole to prevent splitting.**

HORIZONTAL TRACK ASSEMBLY

Step 15:

Horizontal Angle Attachment — Install horizontal angle to horizontal track using 1/4" x 5/8" track splice bolts and 1/4"-20 hex nuts (qty based on angle length) (Figure 12). (If not already done).

Step 16:

Flag Bracket Attachment — Place curved end of horizontal track assembly over the roller in the top fixture and attach to flag bracket with (2) 1/4" x 5/8" track splice bolts and (2) 1/4"-20 hex nuts (Figure 13). Temporarily support back end of the horizontal track using a rope or wire from the roof trusses to support back end (Figure 13).

Step 17:

Horizontal Assembly Attachment — Attach the end of the horizontal angle to the flag bracket with (1) 3/8" x 3/4" bolt and 3/8"-16 hex nut (Figure 13).

Step 18:

Track Hanger Installation — Replace support rope or wire with metal angle hangers (supplied by installer—minimum 14 ga.) (Figure 13). **Note:** Make sure track is level and square with opening (Figure 13). Make sure distance between track and door is the same at the bottom of the vertical (Figure 10), at curve of horizontal and back of horizontal. Adjustment to track position may need to be made later, after the door is opened to maintain proper spacing.



CAUTION: Keep horizontal tracks close to the door so door will not fall out of track.

Step 19:

Tighten the slide on the top fixture by pushing the top section tightly against the opening and lightly pulling the slide towards the inside of the garage. (Figure 7). Tighten nut.

Step 20:

Note: If the door will be installed with a lock, go to Step 20 on supplemental "Classic Lock" Installation Instructions sheet. Lock and pull ropes should be removed and/or disengaged if electric operator is used. See electric operator attachment, page 6.

Step 21:

If electric operator is not used, attach one end of pull rope to safety bottom bracket and the other end to the second jamb bracket.

INSTALL POWER UNIT IN ACCORDANCE WITH POWER UNIT INSTRUCTIONS. (See enclosed instructions in Homeowner's bag).

Step 22:

Close door from outside and permanently nail perimeter seal for a snug fit so that the seal does not bind the door. Wax inside edge of seal (vinyl flap) to prevent binding (if necessary).

Step 23:

Check spacing of door and track. Make sure there is 3/8" clearance between door and track along the entire horizontal and vertical track assemblies. Adjust as necessary.

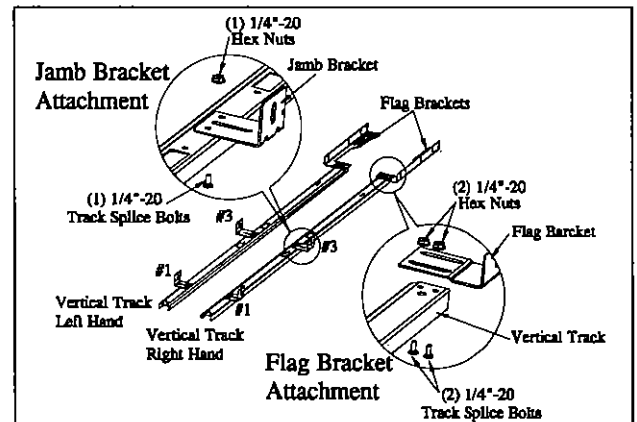


FIGURE 9

TABLE 4 — JAMB BRACKETS		
DOOR HEIGHT	LOWER JAMB BRACKET	UPPER JAMB BRACKET
UNDER 7'0"	J1	J3
OVER 7'0" AND UNDER 8'0"	J1	J4

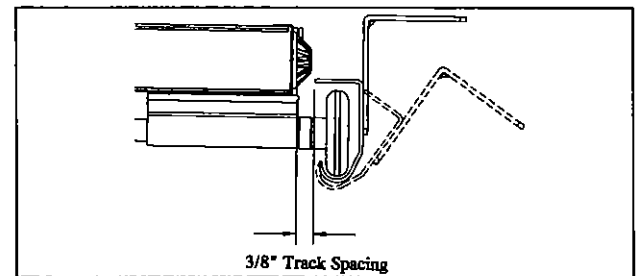


FIGURE 10

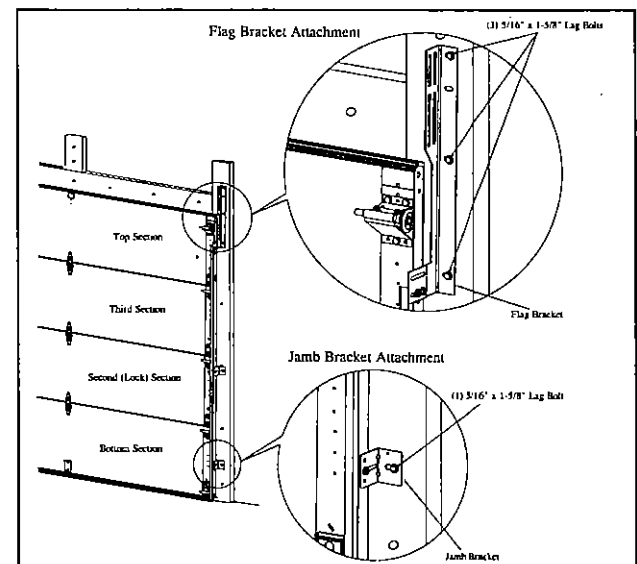


FIGURE 11

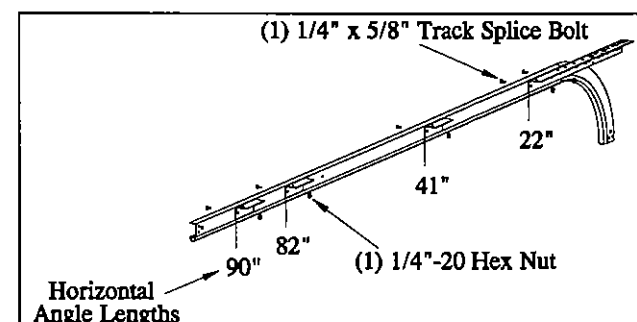


FIGURE 12

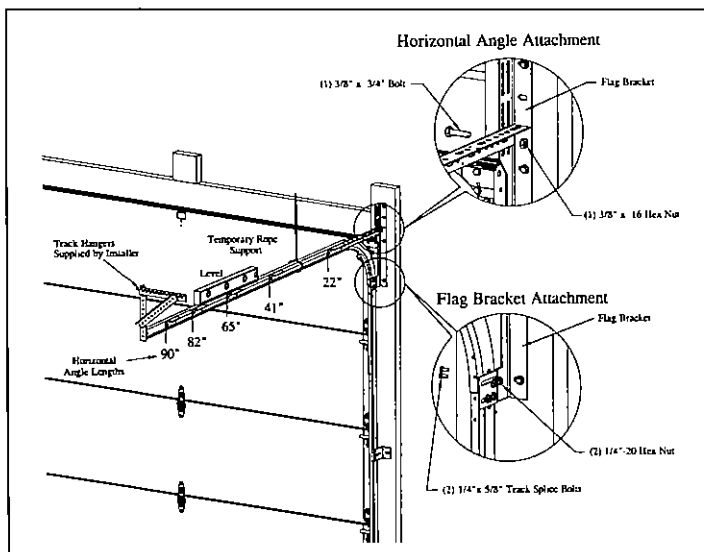


FIGURE 13

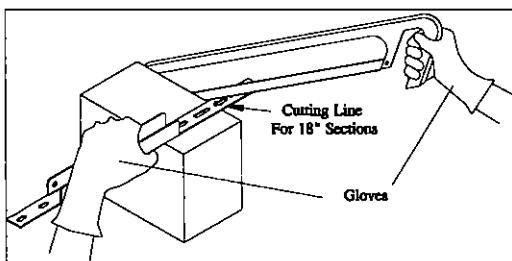


FIGURE 14

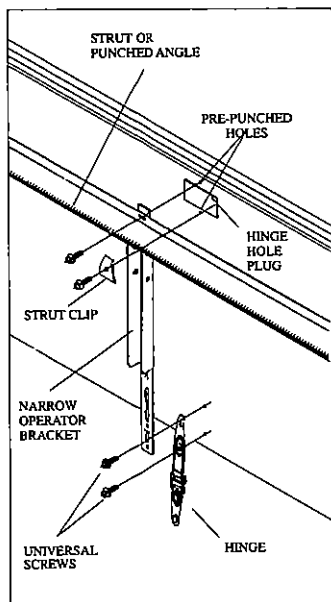


FIGURE 15 used for:

Short Panel:
8', 9', 15'6", 15'8", 16', 17', 18'
Long Panel:
8', 9', 10', 15', 16', 17',
18' wide doors

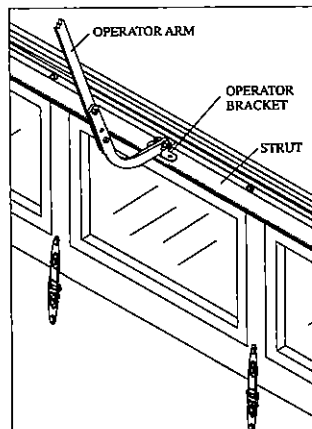


FIGURE 16 used for:

Short Panel: 6', 10', 12', 14', 15', 20'
Long Panel: 12', 14', 20' wide doors

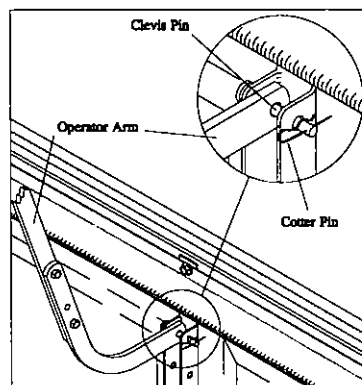


FIGURE 17

Final Check

1. As necessary, readjust spring tension by referring to spring power unit instructions.
2. Make sure door is square with opening.
3. If the door does not work easily, re-check installation to make sure spacing of track is correct and the door is not binding.

Maintenance and Adjustment

Twice a year, lightly oil (motor oil-10W30) all sheaves, non-plastic rollers, hinges and torsion springs as needed. Extension springs do not need lubricating. Check springs and cable for wear and binding. Washing your door occasionally with light soapy water will help keep your door looking like new. It will also help remove any corrosive (ie. salt) residue that may be on the surface of your door.

Painting for Steel Garage Doors

The factory-applied finish on your metal garage door is a baked-on coating, designed to give trouble-free performance for years with little service required. To paint, follow these instructions:

1. Close door, wipe down and clean entire door with mild detergent to remove dirt. Rinse clean with water.
2. When door is dry, paint with two coats of high-grade exterior latex based paint. **DO NOT USE OIL BASED PAINT.**
3. Follow paint manufacturer's instructions and avoid painting at temperatures below 50 degrees F.

For complete instructions on "How to Paint Steel Garage Doors", contact your local Amarr Dealer.

DAMAGE TO THE GARAGE DOOR DUE TO AN IMPROPERLY INSTALLED OR ADJUSTED ELECTRIC OPENER IS NOT COVERED BY AMARR'S WARRANTY.

Electric Operator Attachment

When installing a garage door operator the following applies:

- The door springs must be in good working order, the door must be balanced (should be able to raise the door 1/2 way and have the door stay open).
- The top section of the door **MUST** be reinforced in order to provide a connection point for the operator lifting arm (follow the operator manufacturer's installation and safety instructions).
- Disconnect and/or remove all locks and pull ropes. Attempting to use the operator while the door is locked may damage your garage door.

Operator Reinforcing Bracket Installation

Step 1: Narrow Operator Bracket - Amarr offers a narrow operator bracket that will accommodate both 18" and 21" tall top sections. Determine the height of your top section (Table 2) to see if your operator bracket needs modifying. If your top section is 18" tall, the operator bracket must be modified as shown (Figure 14).



Caution: Amarr suggests wearing gloves and eye protection when modifying the operator bracket. Upon completion of the modification, you may need to file the edge.

Step 2: Operator Bracket Installation Options - refer to (Figures 15 and 16) below for operator reinforcement options.

Important: Use only the pre-punched holes in reinforcing the top section as improper fastening location may result in damage to the door or operator. Connection of the operator arm to the operator bracket can be seen in (Figures 16 and 17).

This door meets DASHA-116 pinch resistant requirements when installed with hardware shown in these installation instructions.

Leave these instructions by the door for further reference