# Wayne Dalton GARAGE DOORS

## REINFORCEMENT UPGRADE

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# **Supplemental Installation Instructions**

This installation instruction is to be used as a supplement to the main Installation Instruction And Owner's Manual provided with the door. The 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.

## **Attaching Additional Strutting**

Refer to the <u>charts on pages 2 and 3</u>, to determine what section(s) requires additional J-strut(s) or 3" U-bars(s).

NOTE: DO NOT remove the factory attached J-STRUT(S) and their fasteners.

**NOTE:** Please omit the 3" non-symmetrical U-bars (reference **FIG. 0.0**) and re-use as needed on other doors/applications or recycle through appropriate channels.

NOTE: If your door is a Model 9100, refer to the Charts located on page 2.

**NOTE:** If your door is a Model 9600, refer to the Charts located on page 3.

NOTE: Terminology for the Charts is located at the bottom of page 2.

#### **INSTALLING THE J-STRUTS:**

First, place the j-strut over the appropriate rib and center the j-strut side to side on the section rib of the section, as shown in, **FIG. 1.0**.

#### 1a. (For 9100 Door Models Only):

Fasten each end of the j-strut to the endcap with (1) #8 tek screw. Next, fasten the j-strut to the rib using (2) 1/4" - 20 x 5/8" self tapping screws at each location, as shown in, **FIG. 1a**.

### 1b. (For 9600 Door Models Only):

Fasten the j-strut to the rib using (2) 1/4" - 20 x 5/8" self tapping screws at each location, as shown in, **FIG. 1b**.

#### INSTALLING THE 3" U-BARS:

**NOTE:** The 3" U-bar that is installed on the top rib of the top section is door width minus 1" (Long). All other 3" U-bars are door width minus 8" (short).

**NOTE:** If a 3" U-bar is being installed on top of a j-strut, you may need to spread the legs of the 3"U-bar, so it will go over the existing j-strut.

First, place the  $3^{\circ}$  u-bar over the appropriate rib and center the u-bar side to side on the section rib.

#### 2a. (Long):

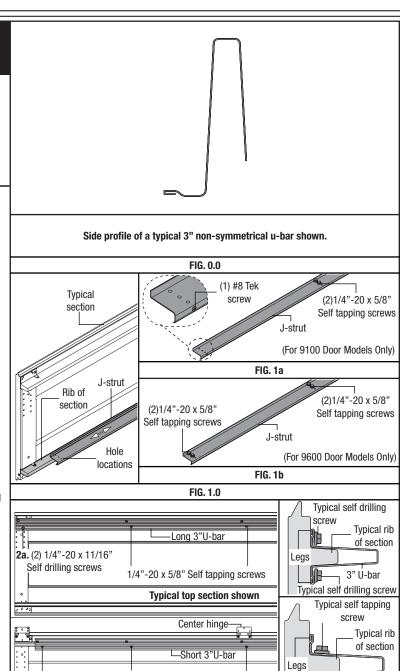
Second, fasten each end of the 3" u-bar to the endcap with (2) 1/4" -  $20 \times 11/16$ " self drilling screws.

#### 2b. (Short):

Second, fasten each end of the u-bar to the rib with (2) 1/4" - 20 x 5/8" self tapping screws.

Third, fasten the u-bar to the rib using (2) 1/4" -  $20 \times 5/8$ " self tapping screws, in line at each center hinge(s) location. Next, fasten the u-bar to the rib using (2) 1/4" -  $20 \times 5/8$ " self tapping screws, in between each center and end hinge locations, as shown in, **FIG. 2.0**.

**NOTE:** After completing this supplement insert, continue with the Main Installation Instruction And Owner's Manual provided with the door.



2b. 1/4"-20 x 5/8" Self tapping screws

343042

Typical section shown

FIG. 2.0

3" U-bar

Typical self tapping

screw
Side profile of a typical 3"

05/03/2016

u-bar attachment shown.

REV2

				(1) N	lodel 9100 Cha	rt					
Door He	ight Less than (	Or Equal 1	to 8'0"	(-)							
	<u></u>		1			Door Width					
# Of Sections	Section Type	Top /	Solid Doors	Solid Doors Glazed Top		Glazed Intermediate #4		Glazed Intermediate #3			
		Bottom Rib	> 9'0" To <= 16'0"	9'0" To <= > 9'0" To <= > 12'0" To <= > 0'0" To <= 16'0"		)"	> 9'0" To <= 12'0"				
5		Тор	3" U-bar					•			
5	Ton	Bottom	N/A	J-Strut N/A							
4	Тор	Тор	3" U-bar	3" U-bar				3" U-bar			
4		Bottom	N/A	J-Strut N/A				N/A			
5	Intermediate #4	Тор	3" U-bar								
5		Bottom	N/A	I/A			J-Strut N/A				
5	Intermediate #3	Тор	N/A	3" U-bar							
5		Bottom	N/A	J-Strut		N/A		N/A			
4	intermediate #3	Тор	N/A	3" U-bar				3" U-bar			
4		Bottom	N/A					J-Strut			
5		Тор	3" U-bar								
5	Lock	Bottom	N/A								
4		Тор	3" U-bar			3" U-I		3" U-bar	U-bar		
4		Bottom	N/A			N/A					
5		Тор	N/A								
5	Bottom	Bottom	3" U-bar N/A								
4	DUUUIII	Тор	N/A					N/A			
4		Bottom	3" U-bar	N/A				N/A			
Door He	ight Greater tha	ın 8'0"									
	Section Type	Top / Bottom Rib				Door Width					
# Of Sections			Solid Doors		ed Top	Glazed Inte	rmediate #4	Glazed Inte	rmediate #3		
			> 9'0" To <= 12'0"	> 9'0" To <= 12'0"	> 12'0" To <= 16'0"	> 9'0" To <= 12'0"	> 12'0" To <= 16'0"	> 9'0" To <= 12'0"	> 12'0" To <= 16'0"		
5	Тор	Тор	3" U-bar								
5		Bottom	N/A	J-Strut	N/A						
5	Intermediate #4	Тор	3" U-bar								
5	intermediate #4	Bottom	N/A J-Strut N/A								
5	Intermediate #3	Тор	N/A	3" U-bar							
5	tormodiato #3	Bottom	N/A					J-Strut	N/A		
5	Lock	Тор	3" U-bar								
5	LOUN	Bottom	N/A								
5	Bottom	Тор	N/A								
5	Т вошош	Bottom	3" U-bar	N/A							

<u>TERMINOLOGY</u>							
<b>NOTE:</b> Required to be installed	J-Strut						
on appropriate rib.	3" U-bar						
NOTE: Not applicable to your	N/A						
application or your door size.							

					(2) Model	9600 Chart	t					
Door He	ight Less than (	Or Equal	to 8'0"									
		Top /	Door Width									
# Of Sections	Section Type	Bottom	Solid Doors			Glazed Top		Glazed Intermediate #4		Glazed Intermediate #3		
		Rib	> 9'0" To <=	16'0"		> 9'0" To <= 16'0"		> 9'0" To <= 16'0"		> 9'0" To <= 16'0"		
5		Тор	3" U-bar									
5	Тор	Bottom	N/A			J-Strut		N/A				
4	] 100	Тор	3" U-bar							3" U-bar		
4		Bottom	N/A			J-Strut				N/A		
5	Intermediate #4	Тор	N/A			3" U-bar						
5	intermediate #4	Bottom	N/A			J-Strut			N/A			
5	Intermediate #3	Тор	N/A			3" U-bar						
5		Bottom	N/A							J-Strut		
4		Тор	N/A			3" U-bar				3" U-bar		
4		Bottom	N/A								J-Strut	
5	]	Тор	N/A			3" U-bar						
5	Lock	Bottom	N/A									
4	LUCK	Тор	N/A			3" U-bar				N/A		
4		Bottom	N/A							N/A		
5		Тор	N/A									
5	Bottom	Bottom	N/A									
4	Dottoiii	Тор	N/A							N/A		
4		Bottom	N/A		_					N/A		
Door He	ight Greater tha	an 8'0"										
	Section Type	Top / Bottom Rib	Door Width									
# Of			Solid Doors	s Glazed Top		Glazed Intermediate #5		Glazed Intermediate #4		Glazed Intermediate #3		
Sections			> 9'0" To									
	<del>                                     </del>		1	> 9'0" To	> 12'0" To	> 9'0" To	> 12'0" To	> 9'0" To	> 12'0" To	> 9'0" To	> 12'0" To	
6		ļ	<= 16'0"	> 9'0" To <= 12'0"	> 12'0" To <= 16'0"	> 9'0" To <= 12'0"	> 12'0" To <= 16'0"	<del></del>		> 9'0" To <= 12'0"		
6	4	Тор	<= 16'0" 3" U-bar	<= 12'0"	<= 16'0"			> 9'0" To	> 12'0" To		> 12'0" To	
-	- Тор	Top Bottom	<= 16'0" 3" U-bar N/A					> 9'0" To <= 12'0"	> 12'0" To		> 12'0" To	
5	- Тор	Top Bottom Top	<= 16'0" 3" U-bar N/A 3" U-bar	<= 12'0"  J-Strut	<= 16'0"			> 9'0" To <= 12'0"	> 12'0" To		> 12'0" To	
5	Тор	Top Bottom Top Bottom	<= 16'0" 3" U-bar N/A 3" U-bar N/A	<= 12'0"  J-Strut  J-Strut	<= 16'0"			> 9'0" To <= 12'0"	> 12'0" To		> 12'0" To	
5 6	Top Intermediate #5	Top Bottom Top Bottom Top	<= 16'0" 3" U-bar N/A 3" U-bar N/A N/A	<= 12'0"  J-Strut	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"	> 12'0" To		> 12'0" To	
5 6 6		Top Bottom Top Bottom Top Bottom Top Bottom	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A	<= 12'0"  J-Strut  J-Strut	<= 16'0"			> 9'0" To <= 12'0"	> 12'0" To		> 12'0" To	
5 6 6		Top Bottom Top Bottom Top Bottom Top Bottom	<= 16'0" 3" U-bar N/A 3" U-bar N/A N/A N/A N/A 3" U-bar	<= 12'0"  J-Strut  J-Strut	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A	> 12'0" To <= 16'0"		> 12'0" To	
5 6 6 6		Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A	> 12'0" To	<= 12'0"	> 12'0" To	
5 6 6 6 6 5	Intermediate #5	Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A J-Strut 3" U-bar	> 12'0" To <= 16'0"		> 12'0" To	
5 6 6 6 6 5	Intermediate #5	Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A	> 12'0" To <= 16'0"	<= 12'0"	> 12'0" To	
5 6 6 6 6 5 5	Intermediate #5	Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A J-Strut 3" U-bar	> 12'0" To <= 16'0"	<= 12'0"	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6	Intermediate #5	Top Bottom	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A J-Strut 3" U-bar J-Strut	> 12'0" To <= 16'0"	<= 12'0"	> 12'0" To	
5 6 6 6 5 5 6 6	Intermediate #5  Intermediate #4	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut 3" U-bar J-Strut	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5	Intermediate #5  Intermediate #4	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0" 3" U-bar N/A J-Strut 3" U-bar J-Strut	> 12'0" To <= 16'0"	<= 12'0"	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5	Intermediate #5  Intermediate #4	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut 3" U-bar J-Strut	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5 6	Intermediate #5  Intermediate #4	Top Bottom	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut  3" U-bar  3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut  3" U-bar  J-Strut  N/A  N/A	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5 5	Intermediate #5 Intermediate #4 Intermediate #3	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut 3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut 3" U-bar J-Strut  N/A N/A  N/A  3" U-bar	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5 5 5	Intermediate #5 Intermediate #4 Intermediate #3	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut  3" U-bar  3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut  3" U-bar  J-Strut  N/A  N/A	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5 5 6 6	Intermediate #5 Intermediate #4 Intermediate #3	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut  3" U-bar  3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut 3" U-bar J-Strut  N/A N/A  N/A  3" U-bar	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5 5 6 6 6	Intermediate #5 Intermediate #4 Intermediate #3	Top Bottom	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut  3" U-bar  3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut 3" U-bar J-Strut  N/A N/A  N/A  N/A	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut  J-Strut	> 12'0" To <= 16'0"	
5 6 6 6 5 5 6 6 5 5 6 6	Intermediate #5  Intermediate #4  Intermediate #3  Lock	Top Bottom Top	<= 16'0"  3" U-bar  N/A  3" U-bar  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	<= 12'0"  J-Strut  J-Strut  3" U-bar  3" U-bar	<= 16'0"	<= 12'0"	<= 16'0"	> 9'0" To <= 12'0"  3" U-bar N/A  J-Strut 3" U-bar J-Strut  N/A N/A  N/A  3" U-bar	> 12'0" To <= 16'0"	<= 12'0"  N/A  J-Strut  J-Strut	> 12'0" To <= 16'0"	