



T.M.

Main Frame Assembly Instructions

Assembly of the dock
flat & level surface
(not on a hill)

Tightening guidelines

For 1/4" bolts and fasteners to 15-20 foot-pounds
For 5/16" bolts and fasteners to 20- 25 foot-pounds
For 3/8" bolts and fasteners to 25- 30 foot-pounds

Tools Needed:



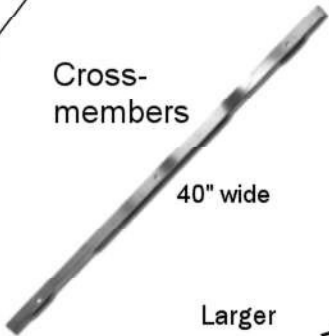


- 3 or 4 Saw Horses
- Impact Wrench (at least 18 volt or a pneumatic)
- 7/16" socket
- 1/2" socket
- Socket wrench
- 1/2" open-ended wrench
- 20' Tape measure
- 2 Small "C" clamps



Step 2

Scan for
Video
Overview

V-Dock Package Break-Down
Parts are not scaled to size

Shore End Channel		Tabs		Cross-members		Lake End Channel		End Clips	
									
Smaller Rectangular Hole		10" wide		40" wide		Larger Rectangular Hole			
Side View						Side View			
4'x16' Dock	1	4	7	1	3				
4'x10' Dock	1	2	4	1	3				
4'x8' Dock	1	0	3	1	3				

V-Dock Bolt Package Break-Down (Bolt Sizing Chart)



1/4 x 1/2" Bolt & Flange Nut

5/16 x 1/2" Bolt & Castle Head Nut

5/16 x 3/4" Bolt & Flange Nut

5/16 x 1" Bolt, Washer & Nut

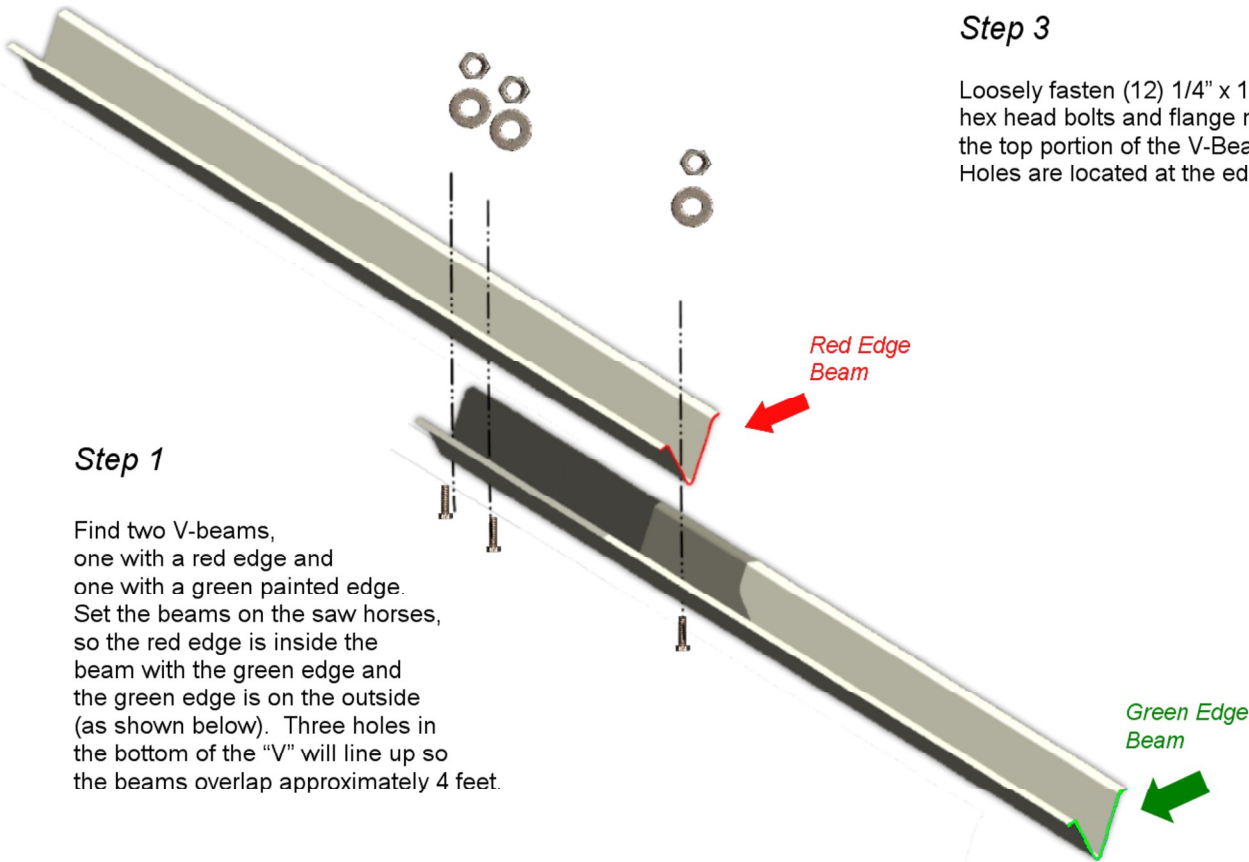


4'x16' Dock	44	2	11	12
4'x10' Dock	16	2	11	6
4'x8' Dock	12	2	11	6



Main Frame Assembly Instructions "Making 16' V-Beams"

**** For 8' and 10' sections skip steps 1-3 ****



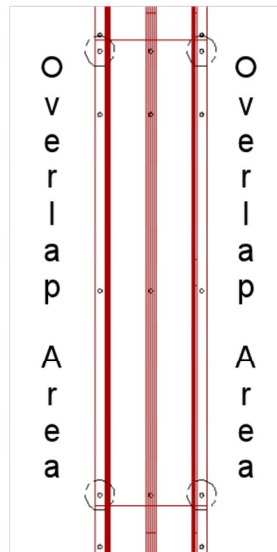
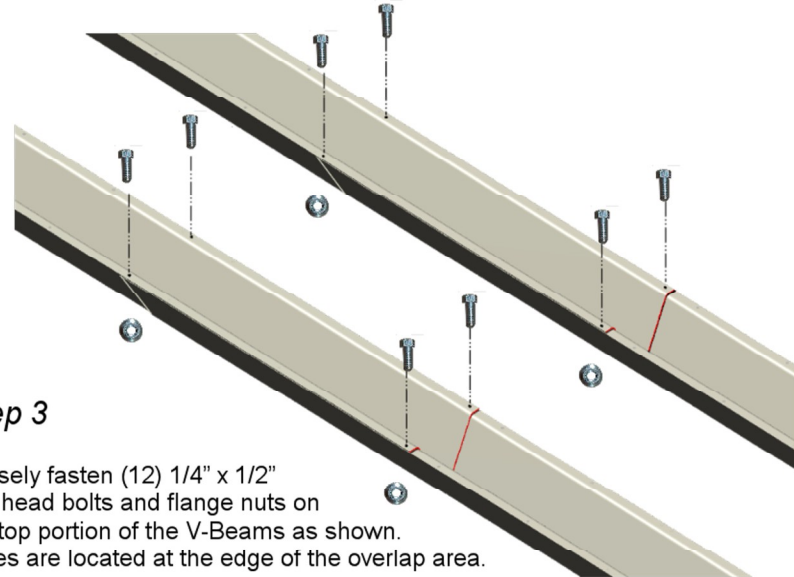
Step 1

Find two V-beams, one with a red edge and one with a green painted edge. Set the beams on the saw horses, so the red edge is inside the beam with the green edge and the green edge is on the outside (as shown below). Three holes in the bottom of the "V" will line up so the beams overlap approximately 4 feet.

**Don't Tighten
Bolts Yet !**

Step 3

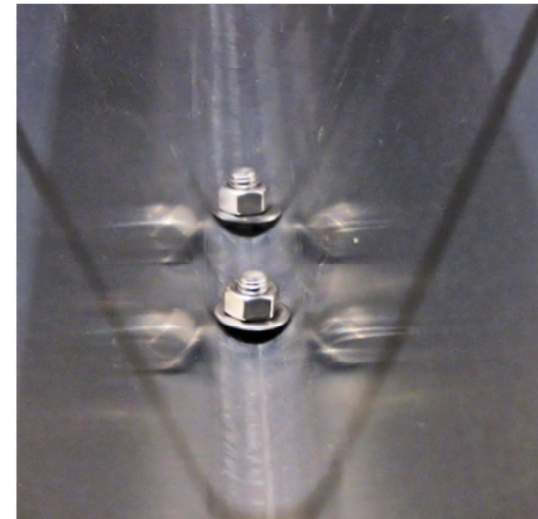
Loosely fasten (12) 1/4" x 1/2" hex head bolts and flange nuts on the top portion of the V-Beams as shown. Holes are located at the edge of the overlap area.



Step 2

Using (3) 5/16" x 1" hex head bolts, washers & nuts. **Loosely** fasten the two beams together as shown (do not tighten yet)

Repeat this step with another set of red and green beams.





Don't Tighten
Bolts Yet !

Main Frame Assembly Instructions "Installing End Channels"

Step 7

The Shore End Channel will go on the non-color coded end of the V-Beams.

Shore End Channel

4 'x 8' Section
Facing Lake

4 'x 10' Section
Facing Lake

Lake End Channel

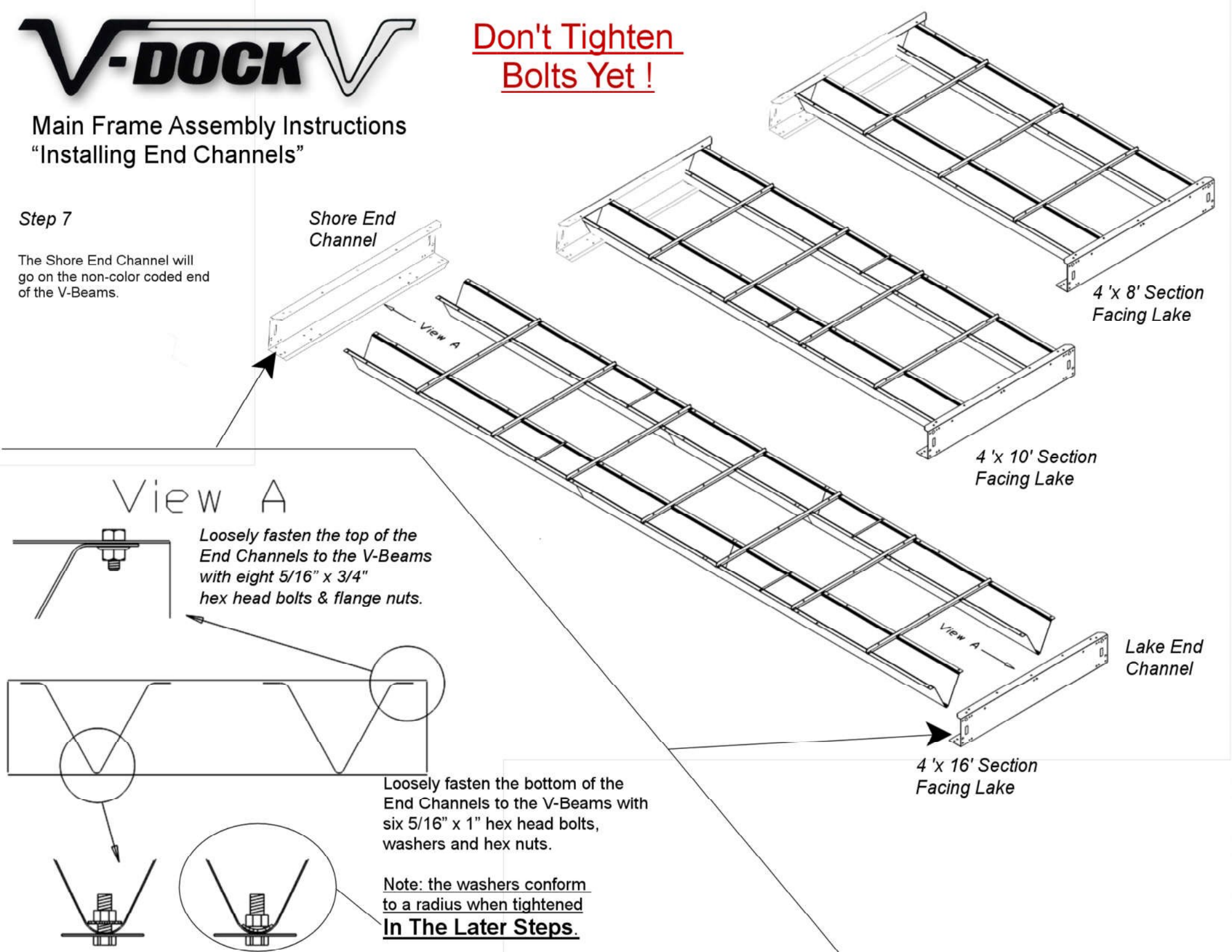
4 'x 16' Section
Facing Lake

View A

Loosely fasten the top of the
End Channels to the V-Beams
with eight 5/16" x 3/4"
hex head bolts & flange nuts.

Loosely fasten the bottom of the
End Channels to the V-Beams with
six 5/16" x 1" hex head bolts,
washers and hex nuts.

Note: the washers conform
to a radius when tightened
In The Later Steps.





Don't Tighten
Bolts Yet !

Main Frame Assembly Instructions

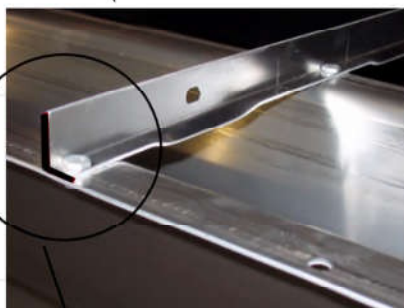
"Tying V-Beams Together to Make a Section"

Step 4

Set two V-Beams, of the same length, side-by-side on the saw horses, making sure that the colored edges are on the same end. Find the cross members and cross tabs in your crate. A cross member is a 40" x 1" "L" shaped of aluminum & the cross tabs are 10" x 1/2" flat strip of aluminum.

Step 5

Starting with one V-Beam, locate the two holes in the lip of the V-Beam at the spacing shown in the diagram. The "L" shaped cross member must face the colored end of the section. Using two 1/4" x 1/2" hex head bolts and flange nuts, loosely attach each cross members along the first V-Beam. Put the bolt down thru the cross member and the hole in the V-Beam with the nut under the lip of the V-Beam. After you have attached all the cross members to one beam, stand both beams on point, so the cross members are horizontal. Line the two V-beams up so you can install two bolts on the other end of each cross member, tying the two V-Beams together. (Warning, there will be other holes along the top lip of the V-Beam that you will use in step 6, so following the spacing indicated.)



L facing the lake end of the dock

Step 6

Loosely fasten the cross tabs to the V-Beams in the remaining holes on the lip of the V-Beams with two 1/4" x 1/2" hex head bolts & flange nuts.

This refersto to know how many cross tabs are required for the size section you are assembling.

4 'x 10' Section

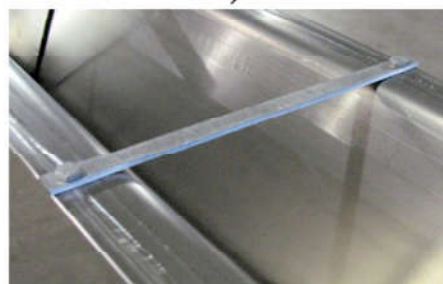
4 'x 8' Section

4 'x 16' Section

Yellow
V-Beam
Edge

Blue
V-Beam
Edge

Green
V-Beam
Edge



- Green edges = 16' beams and needs 7 cross members & 4 cross tabs
- Blue edges = 10' beams and needs 4 cross members & 2 cross tabs
- Yellow edges = 8' beams and needs 3 cross members & no cross tabs



Main Frame Assembly Instructions "Installing End Clips & Stop Bolts"

Step 8

Fasten two 5/16" x 1/2" hex head bolts & castle head nuts in the holes outside edge of the beams on the Shore End ONLY of every section of framework. The bolt comes up under the lip and the anchor nut goes on the top of the V-Beam. This is necessary to hold the last section decking in place.

Shore End Channel

4' x 8' Section

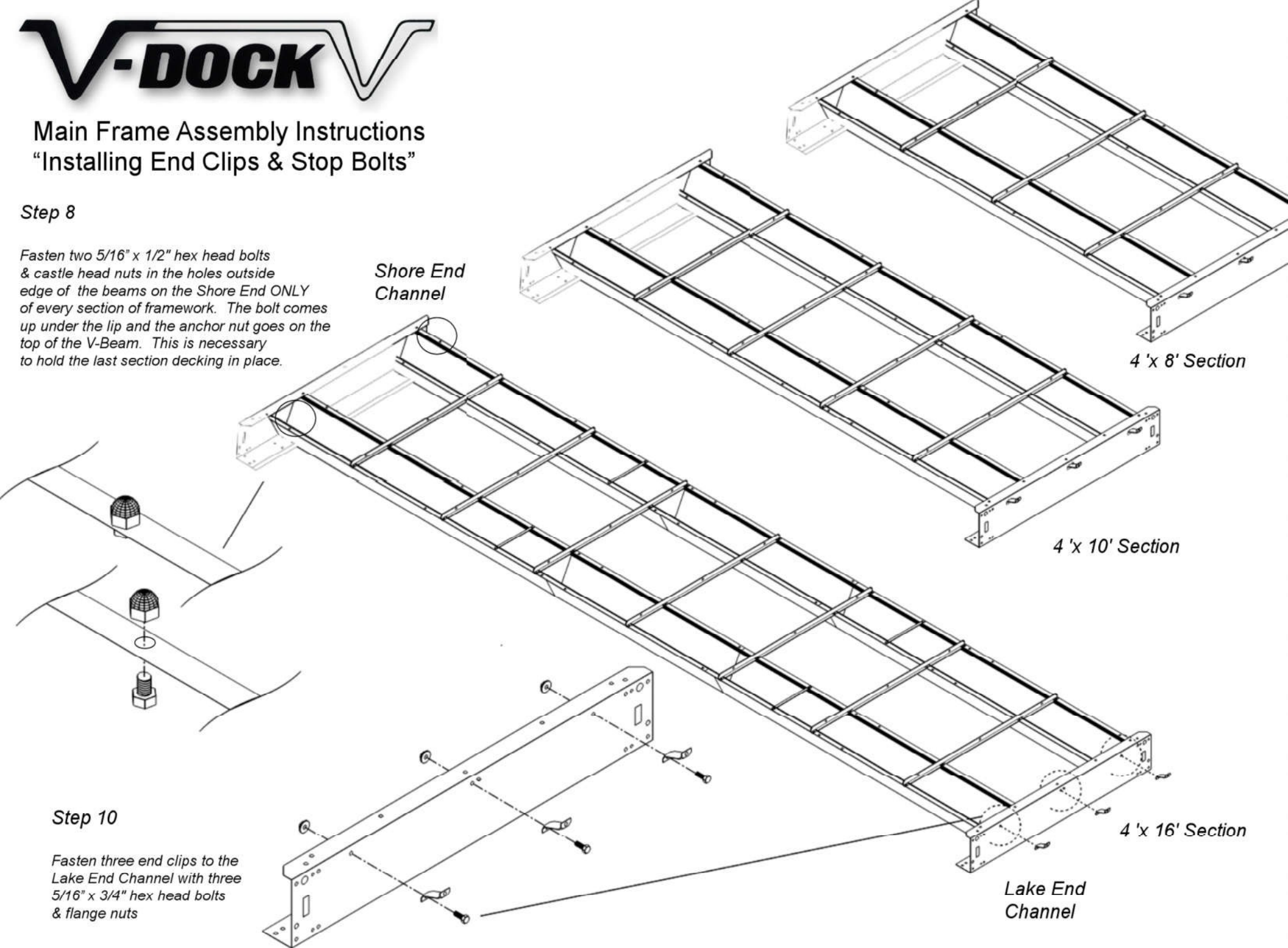
4' x 10' Section

4' x 16' Section

Lake End Channel

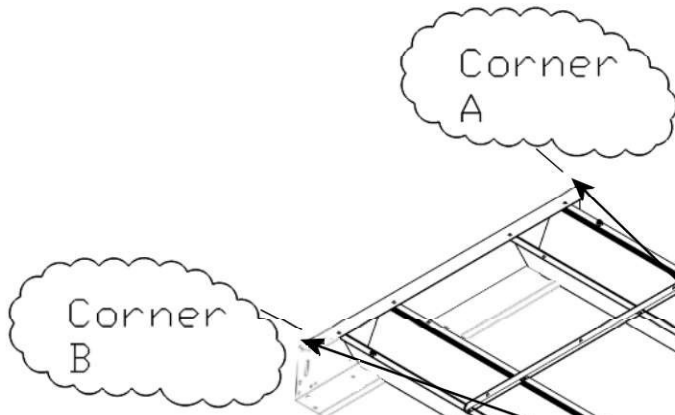
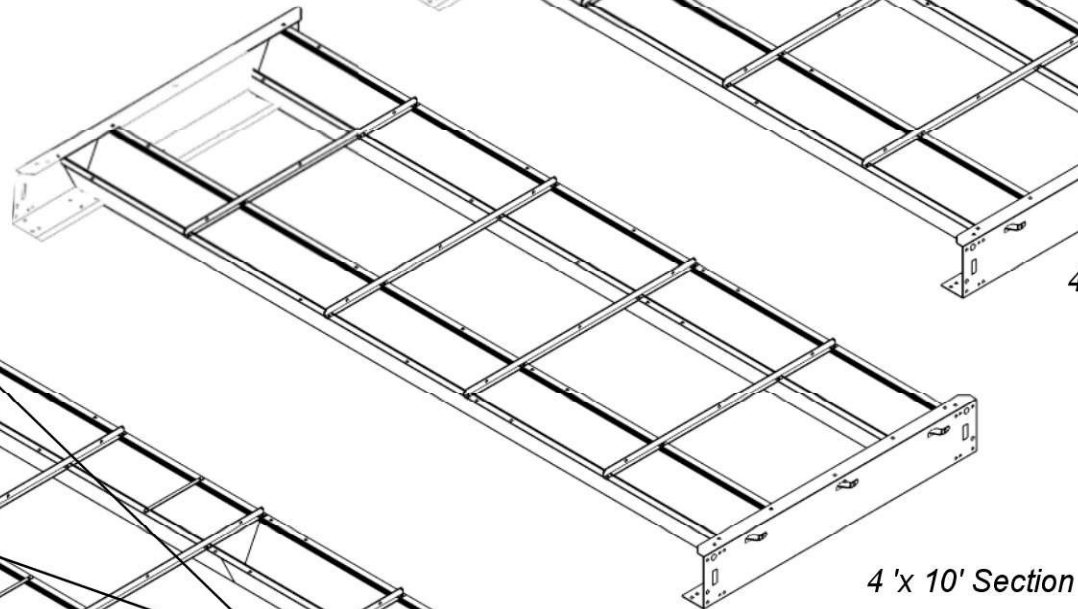
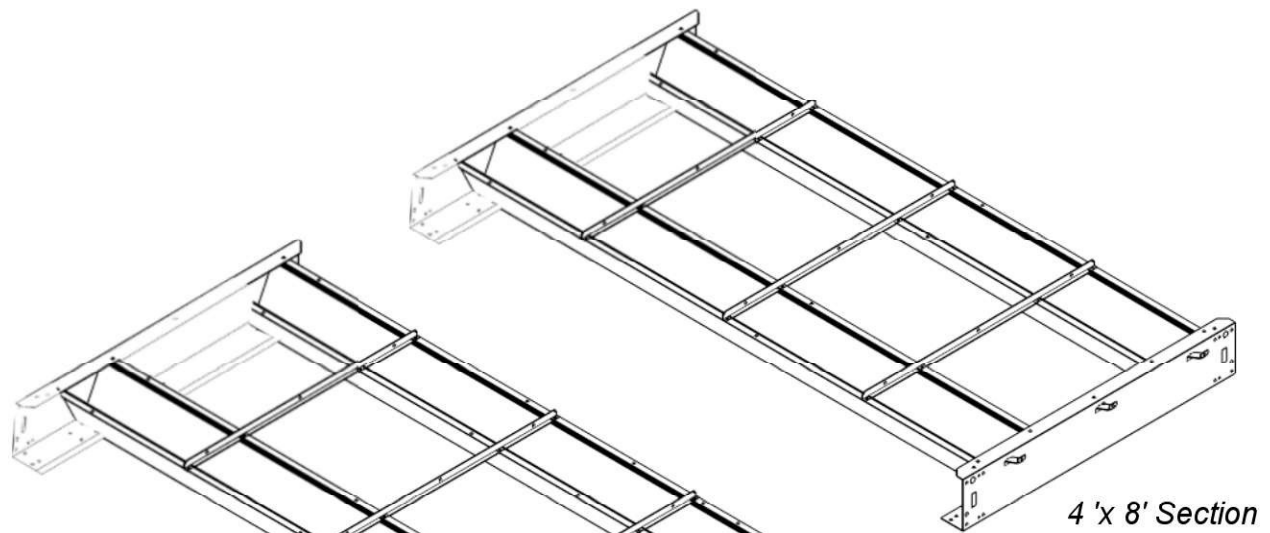
Step 10

Fasten three end clips to the Lake End Channel with three 5/16" x 3/4" hex head bolts & flange nuts





Main Frame Assembly Instructions "Squaring up Frames and Tighten Bolts"



Step 12

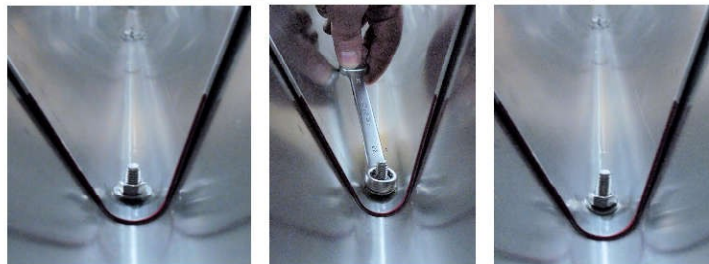
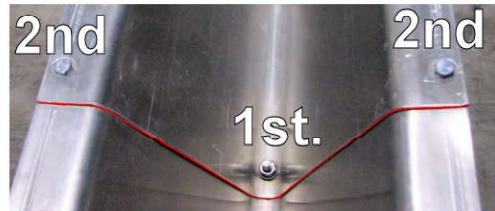
Next with two 1/2" wrenches, tighten all the bolt on the bottom of the V-Beam 1st. Then using a 7/16 wrench tighten the (8) 1/4" and bolts and nuts that are located on top of the V-Beams



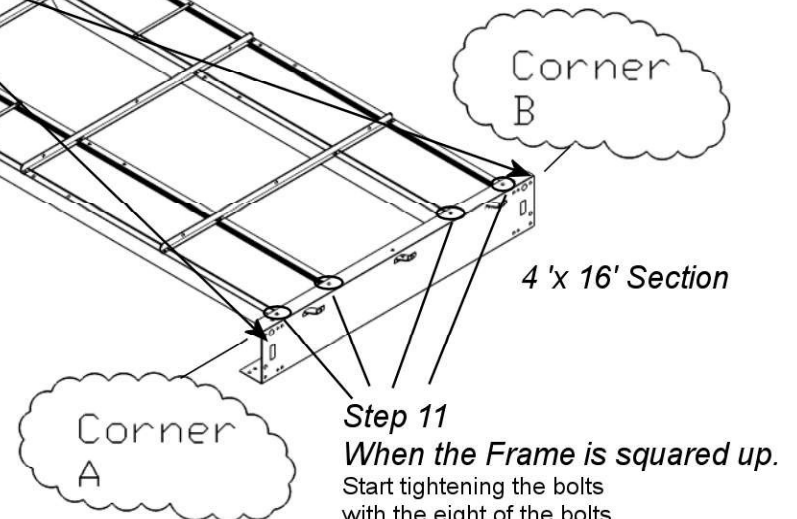
Step 10

To square up the frame, take a tape measure & measure from "Corner A" to "Corner A" & "Corner B" to "Corner B" these two demensions should be the same.

If not you may need to tap it on the corners a little until the measurements are the same.



Note: when tightening the bolts located on the bottom Of the V-Beam the washers should conform to a radius (Shown Above) Then finish by tighten the rest of the bolts securely !



Step 11

When the Frame is squared up. Start tightening the bolts with the eight of the bolts on both End Channels.

Tighten These First