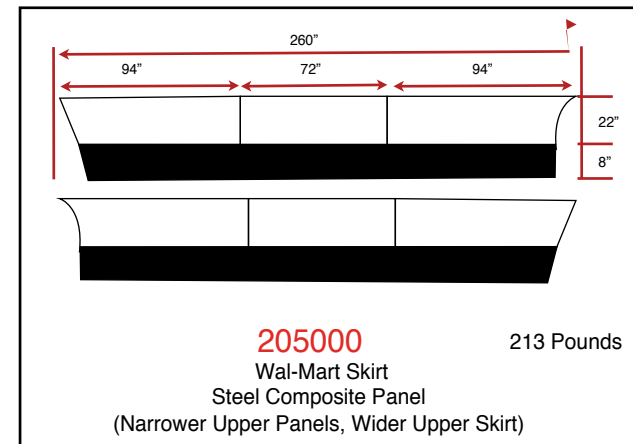
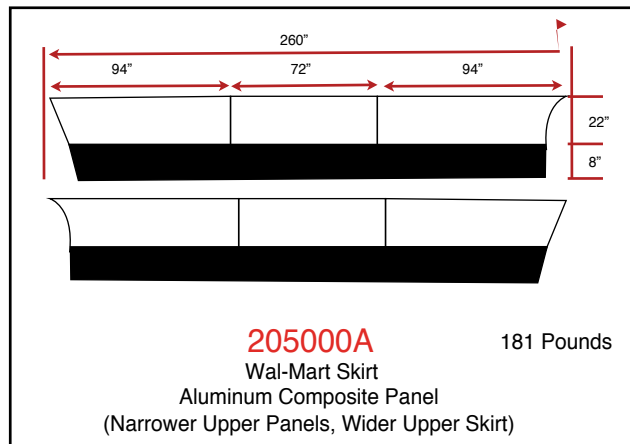
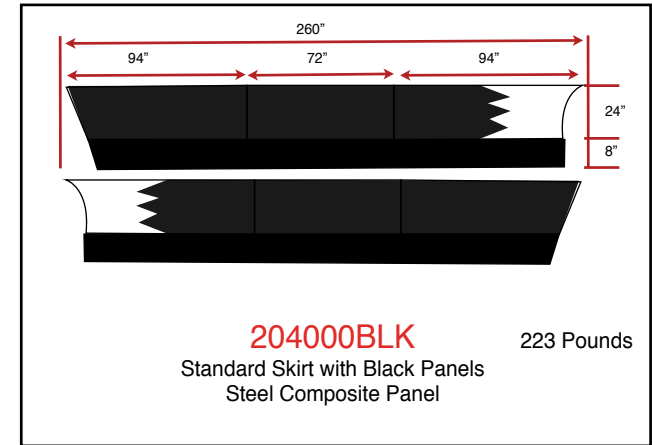
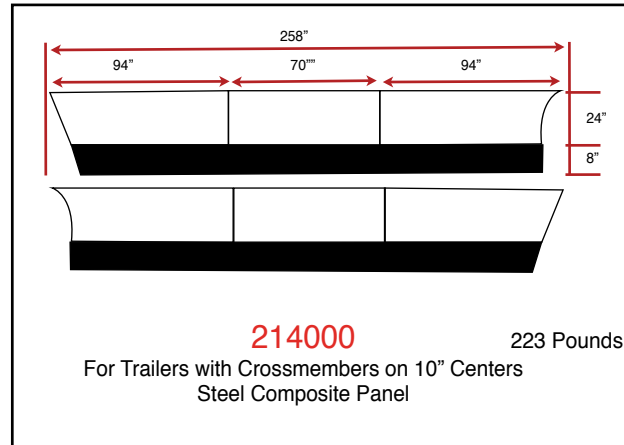
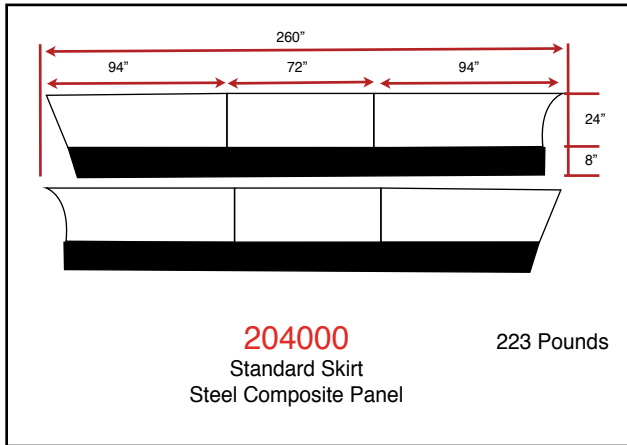




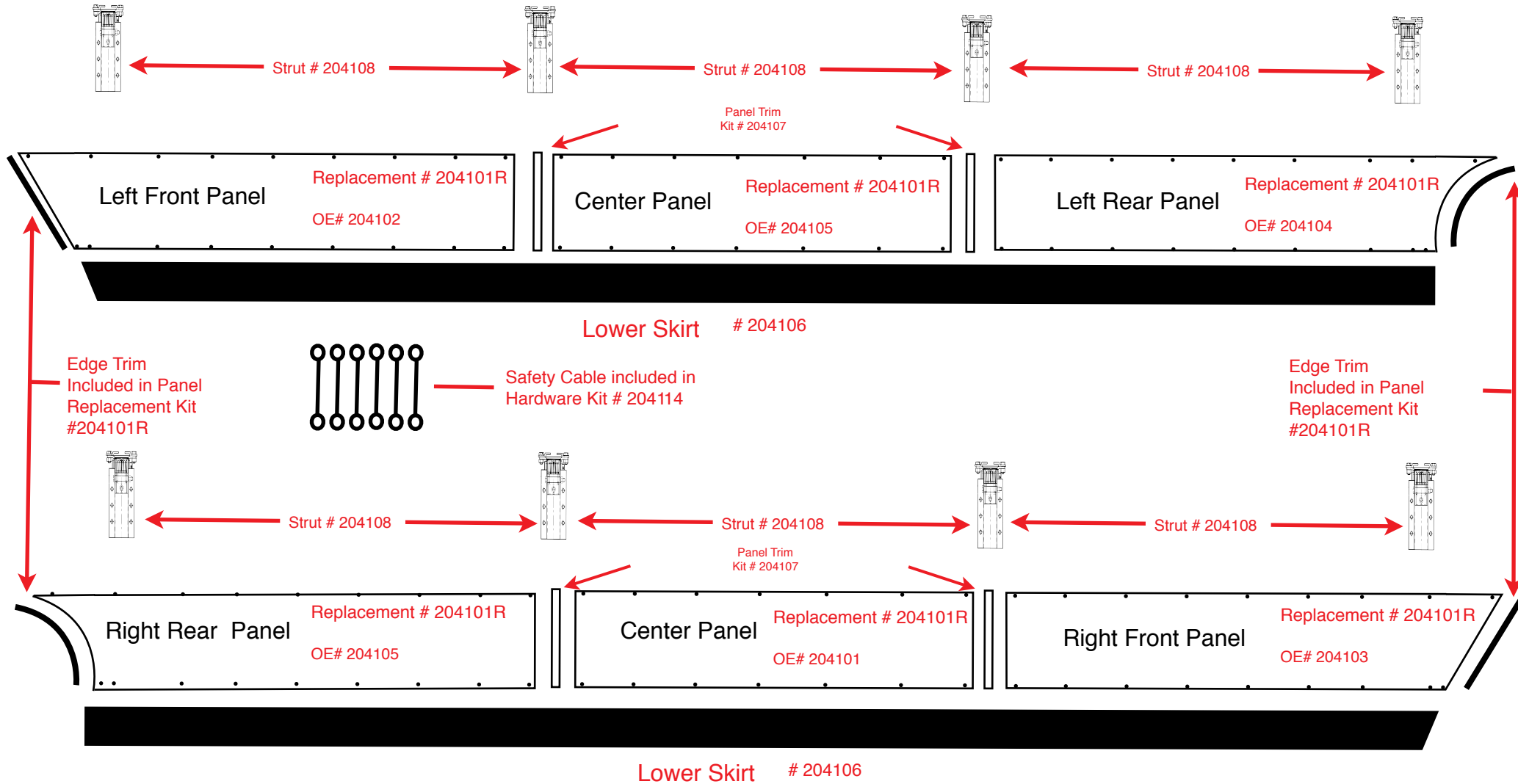
Installation and Parts Manual



Series Guide



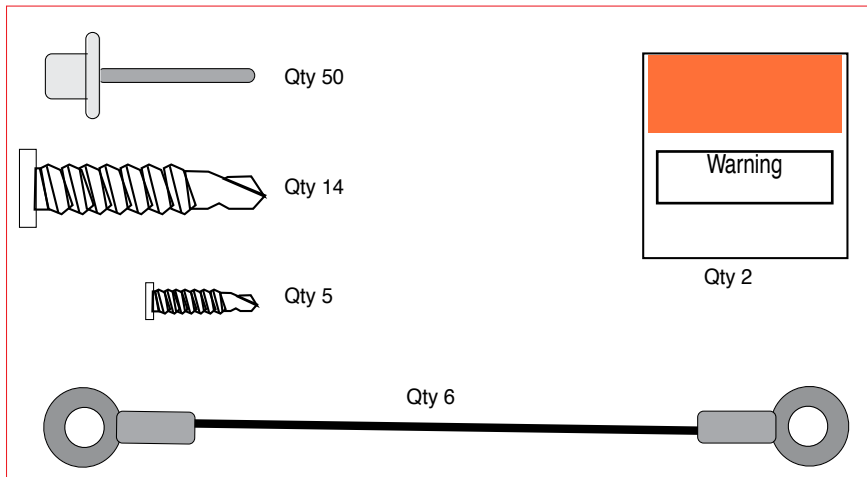
Parts Diagram



There is a universal replacement panel kit #204101R that will replace any panel. It is an 8' square panel and it comes complete with rubber edge trim. The panel must be trimmed to fit. Templates are included in the kit. Mounting hardware must be purchased separately.

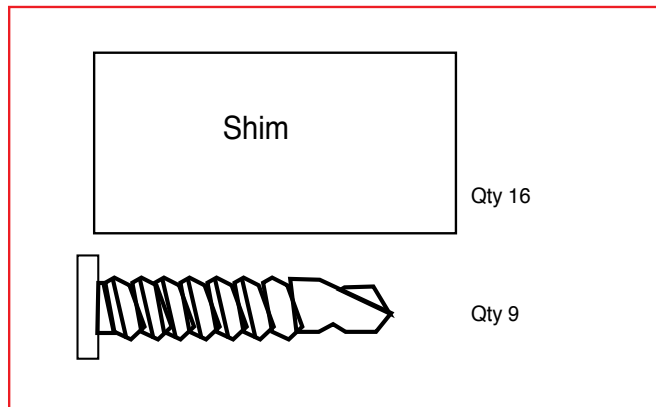
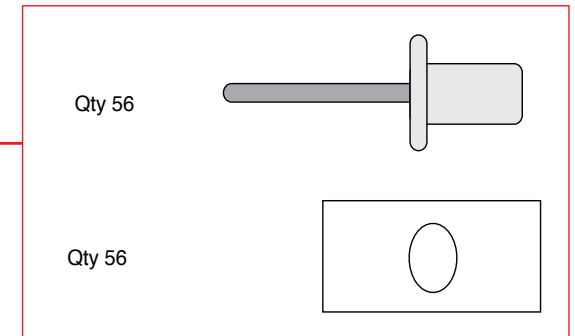
Complete Side #204000CS
(Includes everything to do a complete curb-side)

Replacement Parts, Hardware



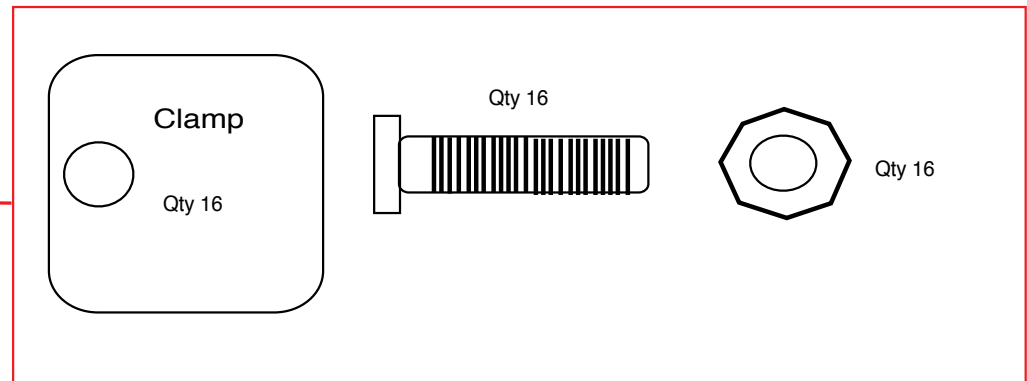
Hardware Kit--Upper Panels
Part # 204114

Hardware Kit--Lower Skirt
Part # 204115



Hardware Kit--Struts
Part # 204116

Post Accessory Kit
Part # 204117
*Included with Strut



Preparation

DO

- VIEW THE INSTALLATION VIDEO ON YOUTUBE. TYPE IN “STREHLUSA” TO FIND THE VIDEO
- REVIEW THE MANUAL CAREFULLY
- CHECK WITH YOUR DEALER OR THE FACTORY BEFORE MODIFYING THE DEVICE IN A WAY NOT COVERED BY THIS MANUAL
- INSPECT TRAILERBLADE BEFORE EVERY TRIP
- INSTALL SHIMS WHEN MOUNTING THE DEVICE ON STEEL CROSSMEMBERS
- USE A TORQUE WRENCH TO TIGHTEN THE THE STRUT BOLTS TO 42 POUNDS OF TORQUE.
- ENSURE THAT THE SAFETY CABLES ARE INSTALLED IN A LOOP AND THAT THEY PLACE NO TENSION ON THE UPPER PANELS.
- FASTEN THE PANEL TRIM WITH THE SUPPLIED FASTENER.
- APPLY THE ID AND WARNING LABELS.
- CHECK THE STRUT BOLTS FOR TIGHTNESS, THE SAFETY CABLES FOR WEAR AND ALL FASTENING POINTS ON TRAILERBLADE AT EVERY TRAILER SERVICE.

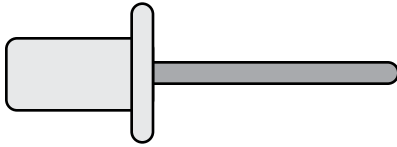
DO NOT

- DO NOT INSTALL THE PRODUCT WITHOUT USING A TORQUE WRENCH TO TIGHTEN THE STRUT BOLTS.
- DO NOT INSTALL THE SAFETY CABLES SO THAT THE PANELS ARE UNDER TENSION WHEN THEY FLEX INWARD.
- DO NOT TRIM, SHORTEN, CUT OR OTHERWISE MODIFY THE DEVICE WITHOUT CONSULTING THIS MANUAL, AN AUTHORIZED TRAILERBLADE DEALER, OR THE MANUFACTURER.
- DO NOT ALLOW MORE THAN 24” OF OVERHANG FROM THE MOUNTING STRUT TO THE TIP OF THE BLADE.
- DO NOT INSTALL THE DEVICE ON STEEL CROSSMEMBERS WITHOUT USING THE SUPPLIED SHIMS.

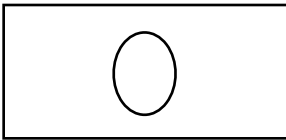
Hardware Guide



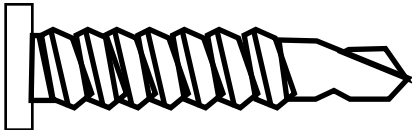
Short Rivets--For attaching panels to strut (1/4" Rivet Gun Required).



Long Rivets--For attaching lower rubber skirt to panels (1/4" Rivet Gun Required).



Square Aluminum Washer--For attaching lower rubber skirt to panels.



Large Self-Drilling Screw--For attaching safety tethers (5/16" hex drive).



Small Self-Drilling Screw--For attaching panel trim to panel (1/4" hex drive).

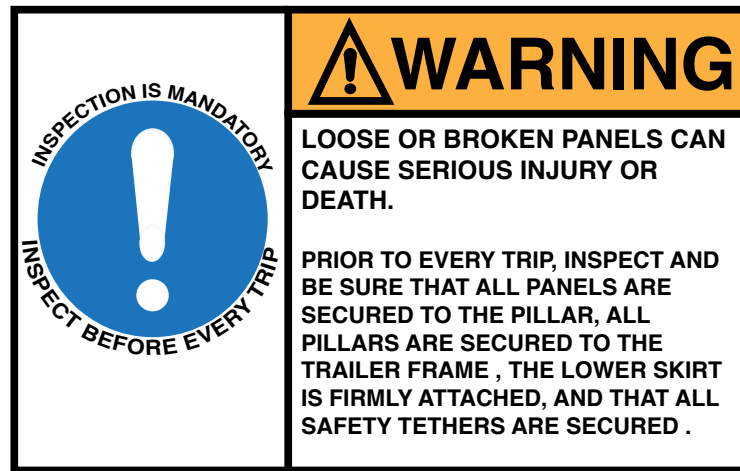


Safety Cables --6 required



Shims --For mounting struts on trailers with steel crossmembers. 16 required.

Professional Installation Recommended --Installation by an authorized TrailerBlade dealer or manufacturer is highly recommended. Improper installation can result in safety hazards and can shorten the life of the product. A complete dealer list is available at www.trailerblade.com.



Tools Required

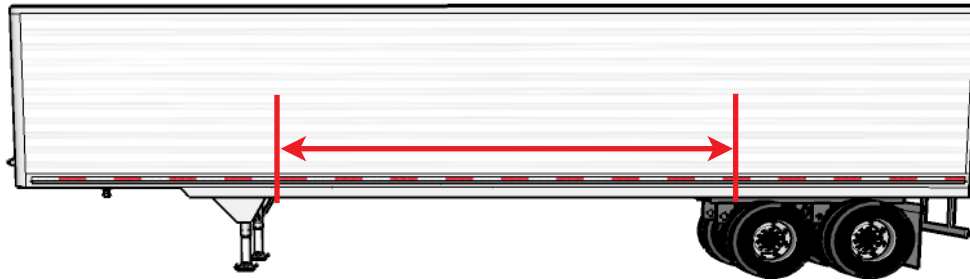
- Rivet Gun that can pull 1/4" Rivets
- Drill
- 17/64" Drill Bit (New)
- 16mm and 17mm Combination Wrenches (Air Ratchet is Preferred)
- Two large Locking Clamps
- Chalk Line
- Tape Measure
- Heavy Duty Shears for cutting lower skirt (tin snips are preferred)
- 3/8" and 1/4" Sockets for installing Tek Screws.
- Skilsaw with fine tooth blade for cutting panels (if required).

Installation Time

Standard installation time is 2-3 man hours. Allow 4-5 man hours for first-time installation, which includes reviewing the manual and watching the installation video.

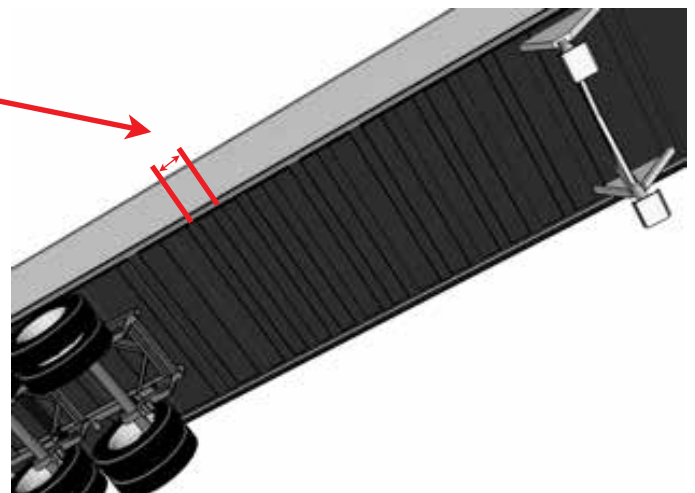
Watching the installation video is highly recommended. Go to YouTube and type "Strehlusa" to view the video.

Pre-Install Worksheet



1. Measure the Distance between the rear edge of the landing gear brace and the forward edge of the front tire. **If this distance is less than 256", you will need to trim the front panel.** _____

2. Measure the Distance between the centers of the cross members that are forward of the tandems and rearward of the landing gear brace. The most common measurement is 12". Sometimes, rarely, the distance will be 8". Since the center panel is 72", either 12" or 8" centers will not require cutting. However, ten inch (10") centers are not uncommon. **If the distance between centers is 10", you will need to trim 2" off the center panel.**



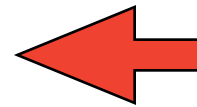
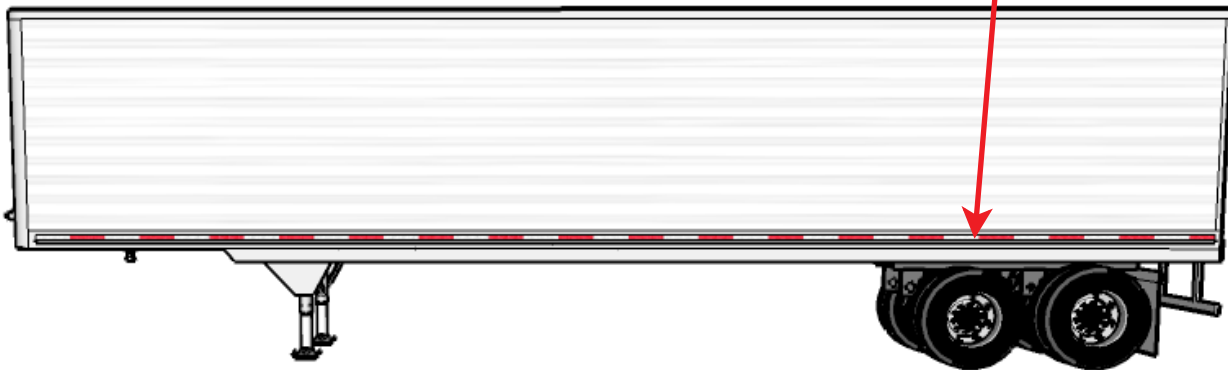
For Refrigerated trailers, refer to the refrigerated trailer section.

Layout is available free of charge from TrailerBlade or your local authorized TrailerBlade dealer. Fill out this sheet before contacting so you'll have a reference.

Installation

1. Slide the axles all the way forward. Mark the outside edge of the trailer at the middle of the front tire. Measure the distance between the rearward edge of the landing gear brace (the wingplate) and the forward edge of the front tire.

Mark the edge of the trailer at the center of the front tire.



Axles Forward

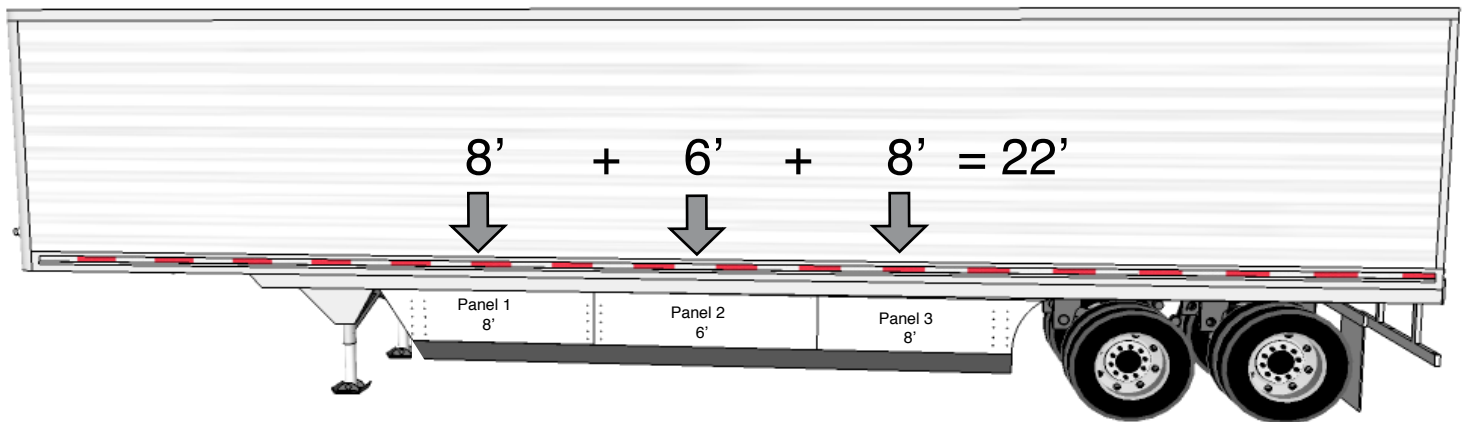
Measure this distance



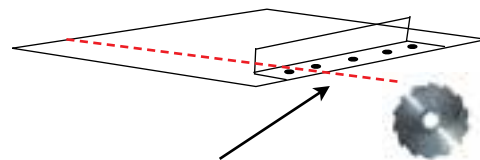
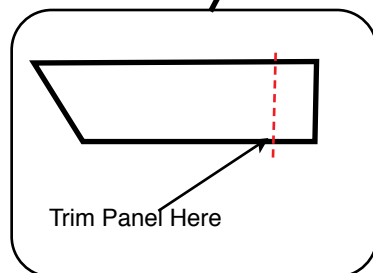
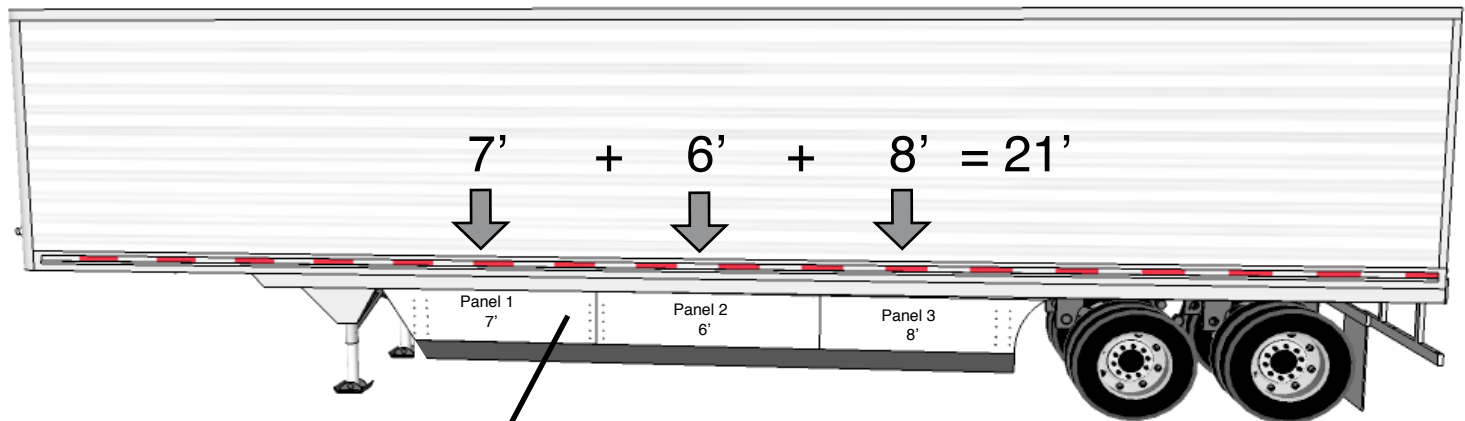
Axles Forward

If the distance you measured in step 2 is less than 22', you will need to trim the back edge of the front panel. Below are the configurations for 22' and 21' lengths. *Note: Do not trim Trailerblade more than 18". Its maximum length should not be below 20'6".*

Standard Configuration
Total Length = 22'

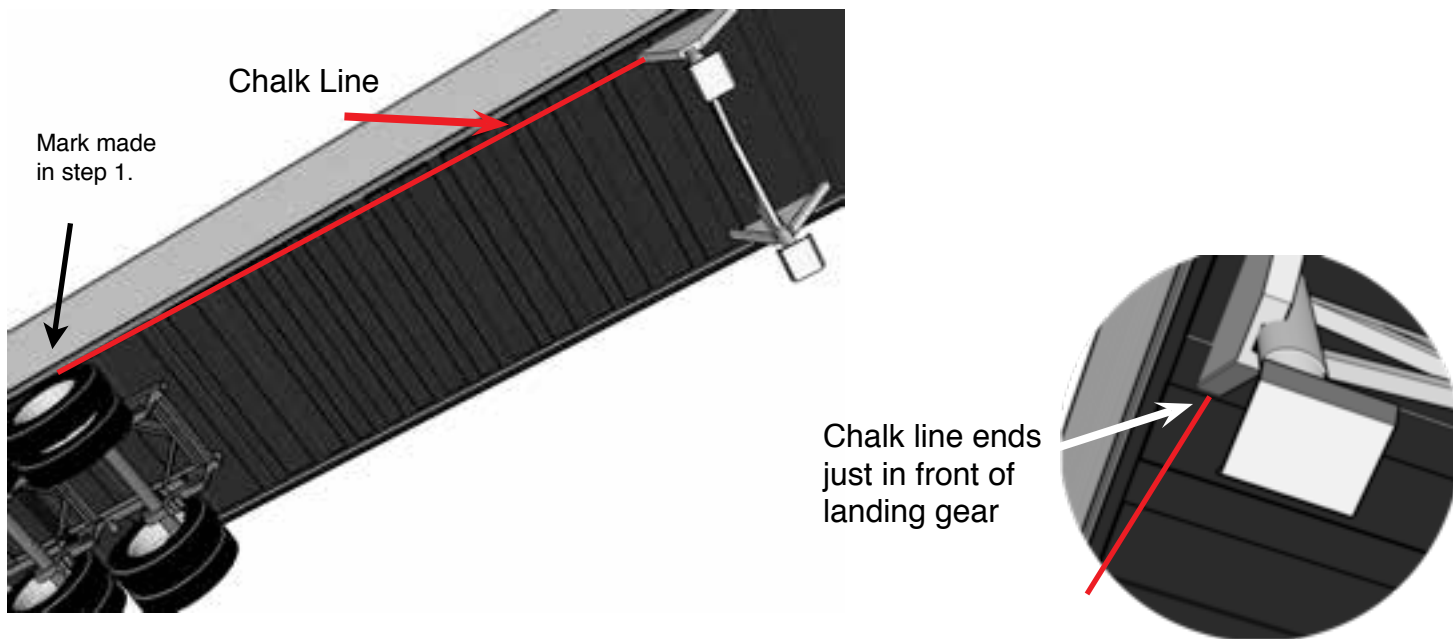


Trimmed Configuration
Total Length = 21'

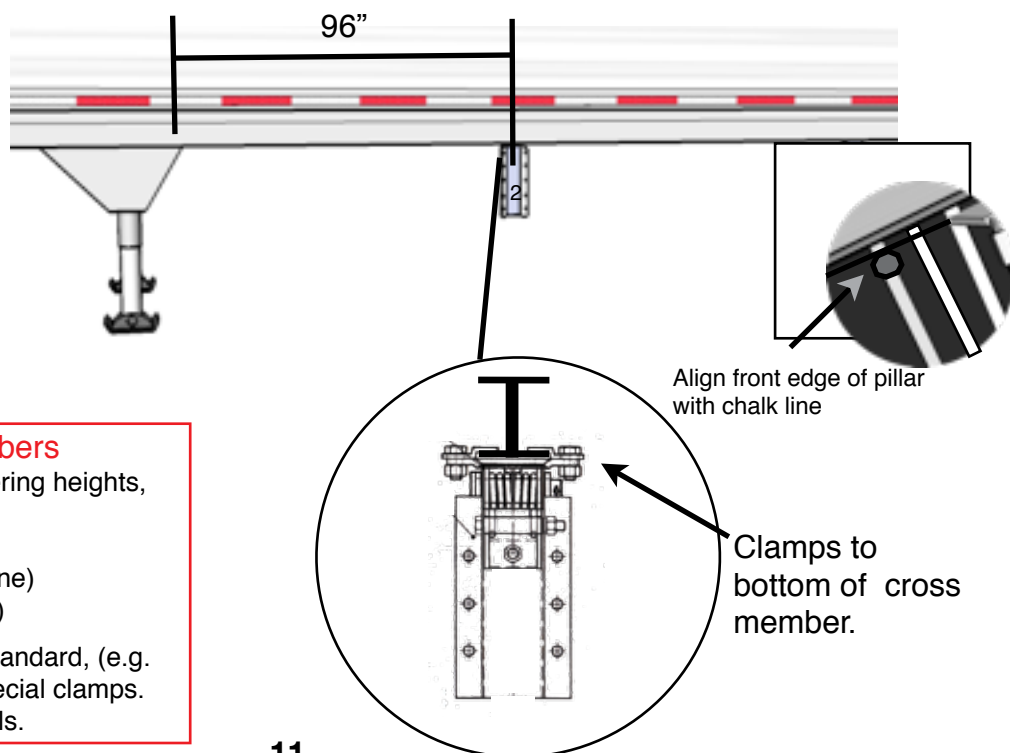


Trim panel with a circular saw that has a fine tooth blade. Aluminum angle must be trimmed an additional 1" from the edge of panel to allow for the panel trim. Make sure the cut is clean. Any burrs or defects will make it difficult to attach the panel trim.

2. Snap a chalk line across the cross members from the front of the landing gear brace to the edge of the trailer where you made your mark in step 1.



3. Mount Strut #2. If the trailer has steel cross members, you will need to use the supplied shims. Mark 96" from the edge of the landing gear (84" if 21' configuration). Mount Strut #2 on the cross member closest to that mark. Rotate the Strut so that it aligns with the chalk line. The outboard edge of the Strut's base should be flush with the chalk line. Tighten the clamps to 42 pounds of torque.



Non-Standard Crossmembers

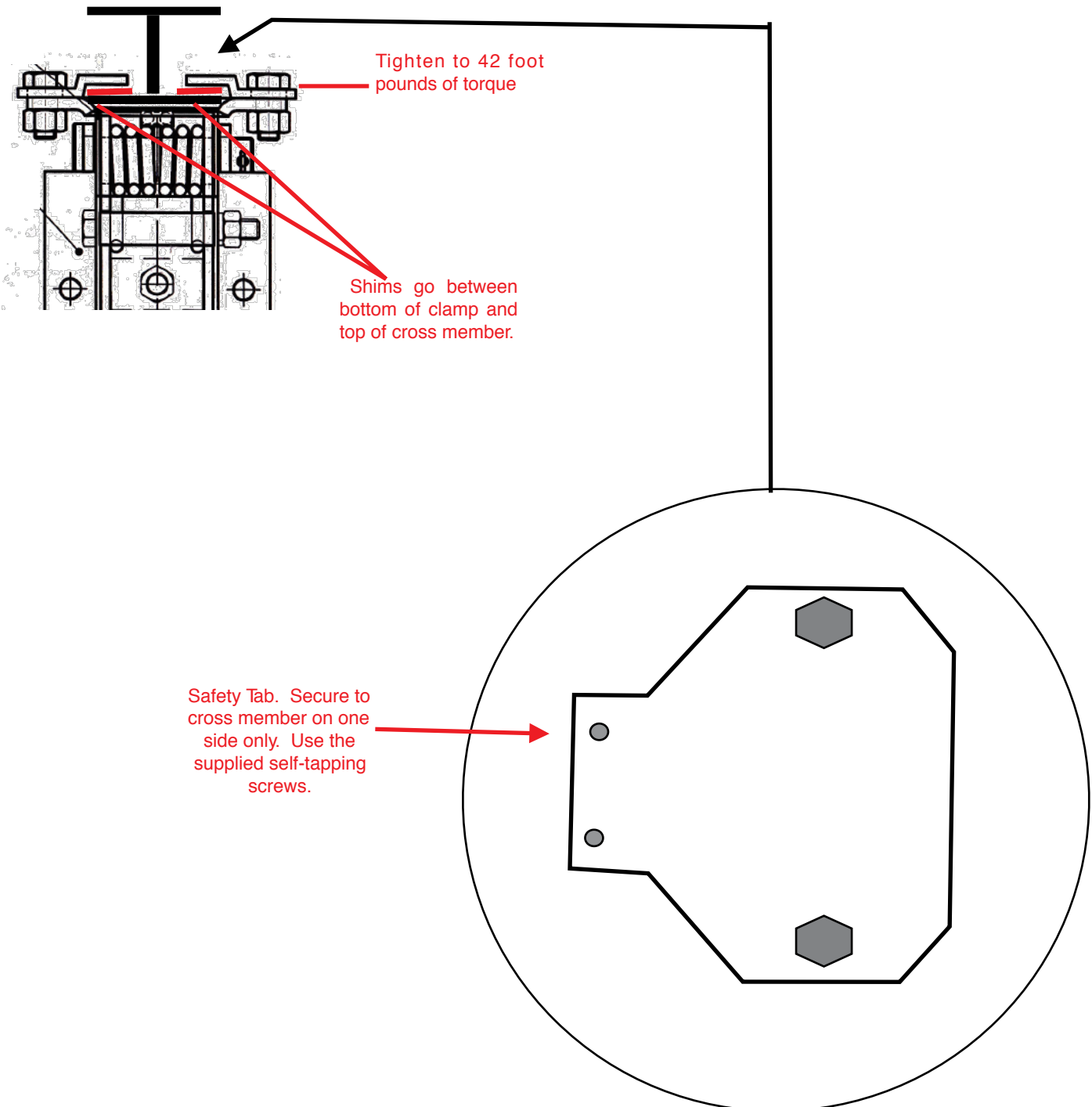
If the trailer crossmembers are of differing heights, you can order adapter brackets.

- P/N 204109 1" Adapter (Great Dane)
- P/N 204110 1 1/2" Adapter (Utility)

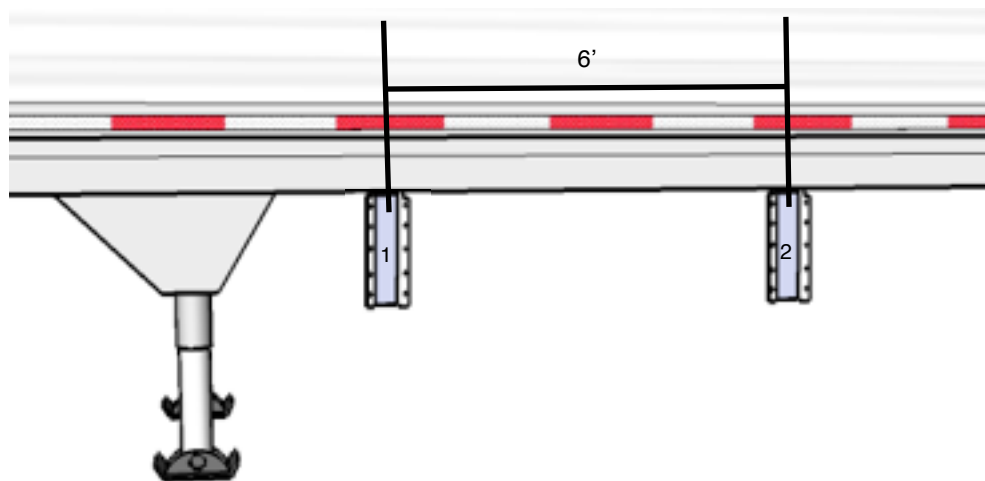
If the trailer crossmembers are non-standard, (e.g. Stoughton), you will need to order special clamps. See your TrailerBlade dealer for details.

3. Strut Mounting, Continued .Earlier model Struts feature a safety cable. Later models feature safety tabs. Secure either the safety cable or the safety tab with the supplied self-tapping screws. On the models with safety tabs, secure only one hole.

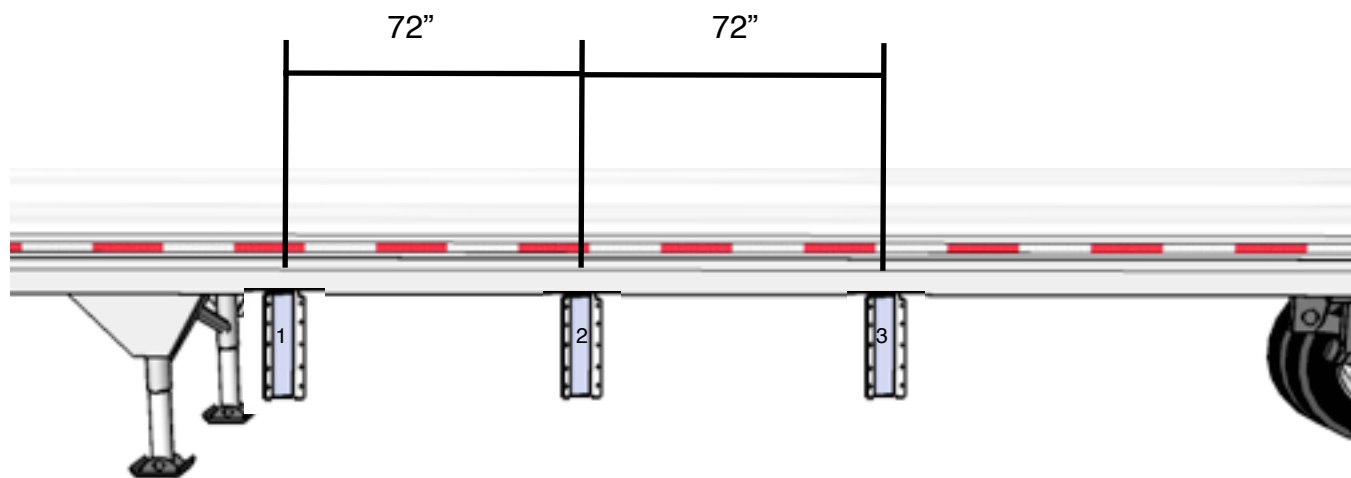
Steel Cross Member
Mounting--Use Supplied Shims



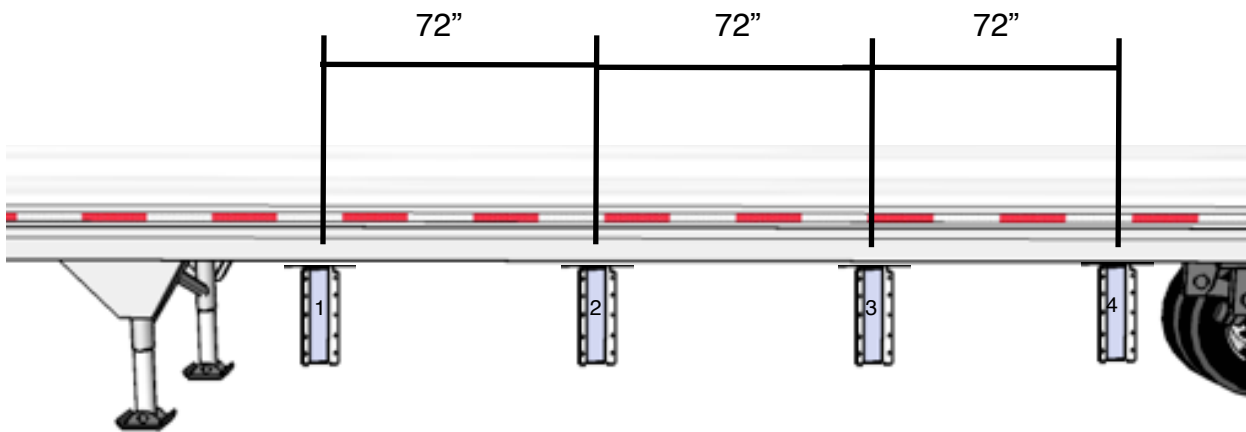
4. Mount Strut #1 . Measure six feet (72") forward of Strut #2 (six cross members forward if on 12" centers, 9 cross members forward if on 8" centers) and mount Strut #1 on that cross member. Rotate the Strut so that it aligns with the chalk line. The outboard edge of the Strut's base should be flush with the chalk line. *Note: if the trailer cross members are on 10" centers, mount the Strut at 70".*



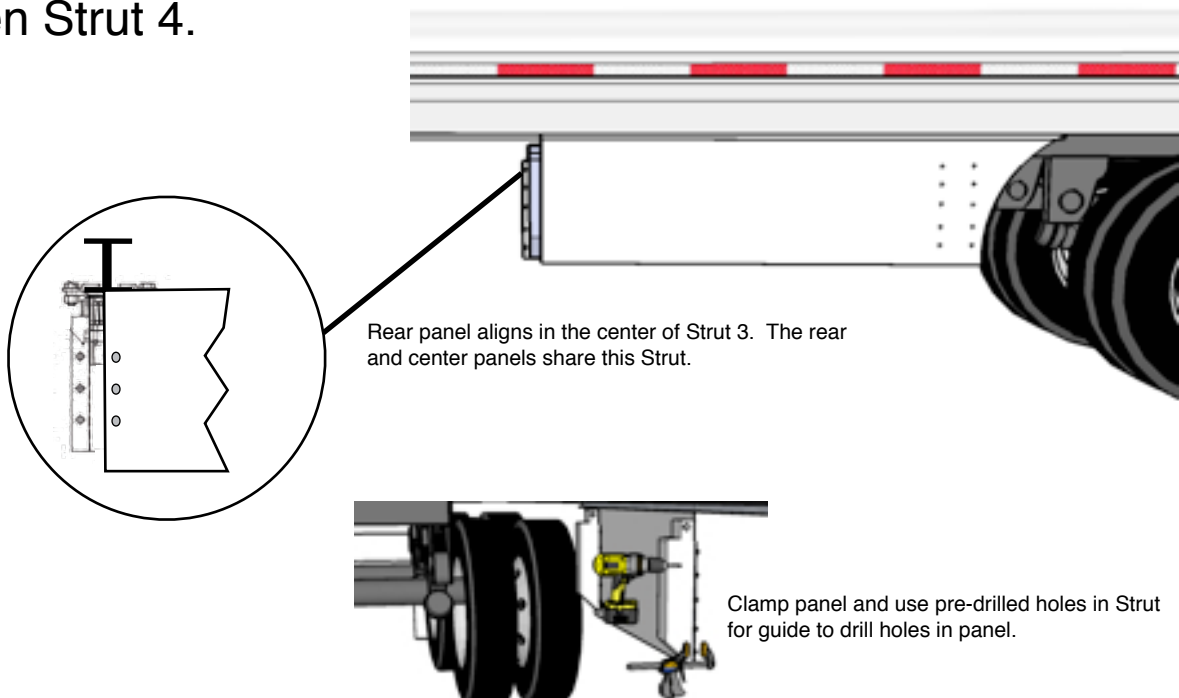
5. Mount Strut #3 . Measure six feet (72") behind Strut #2 (six cross members forward if on 12" centers, 9 cross members forward if on 8" centers) and mount Strut #3. Rotate the Strut so that it aligns with the chalk line. The outboard edge of the Strut's base should be flush with the chalk line. *Note: if the trailer cross members are on 10" centers, mount the Strut at 70".* *You will need to trim 2" off the center panel*



6. Mount Strut #4. Measure six feet (72") behind Strut #3 (six cross members forward if on 12" centers, 9 cross members forward if on 8" centers) and mount Strut #4. Rotate the Strut so that it aligns with the chalk line. The forward edge of the Strut's base should be flush with the chalk line. *Note: if the trailer cross members are on 10" centers, mount the Struts at 70".*

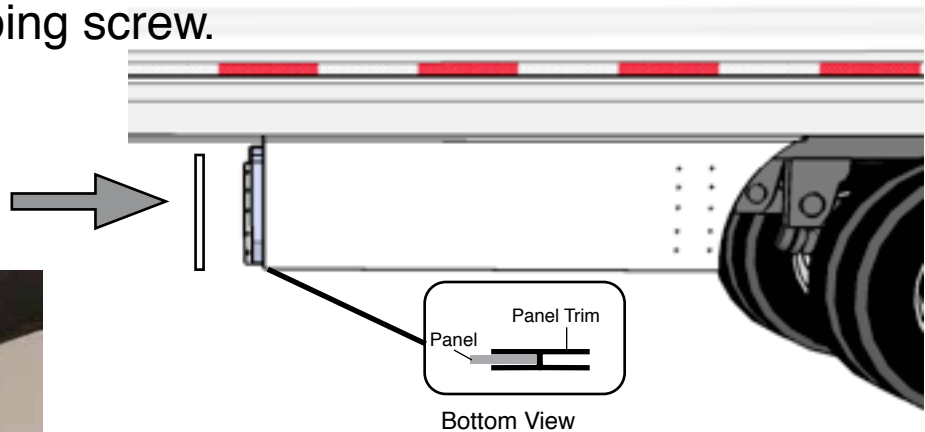


7. Mount the rear panel. The Struts are notched so the aluminum angle on the back of the panel rests in the Strut's notch. Set the panel in place and then align the front edge of the rear panel so it is exactly in the center of Strut #3 (The rear and center panels share Strut #3). The Struts are pre-drilled. Clamp the panel in place and, using the Strut holes as a guide, drill and rivet the panel in place. Secure to Strut 3 first, then Strut 4.

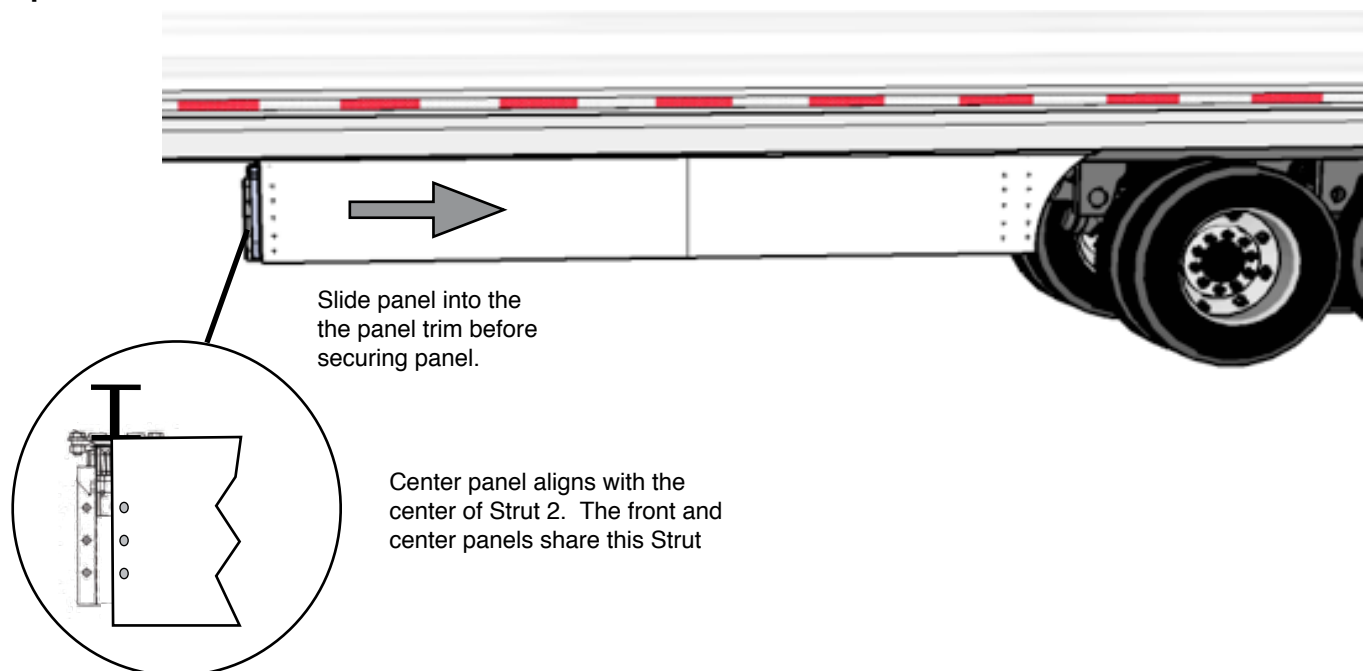


8. Install the panel trim. Slide the panel trim (white, aluminum Hchannel) onto the leading edge of rear panel and the front edge of rear panel. Secure the panel trim (one side only) with the supplied #4 self-tapping screw.

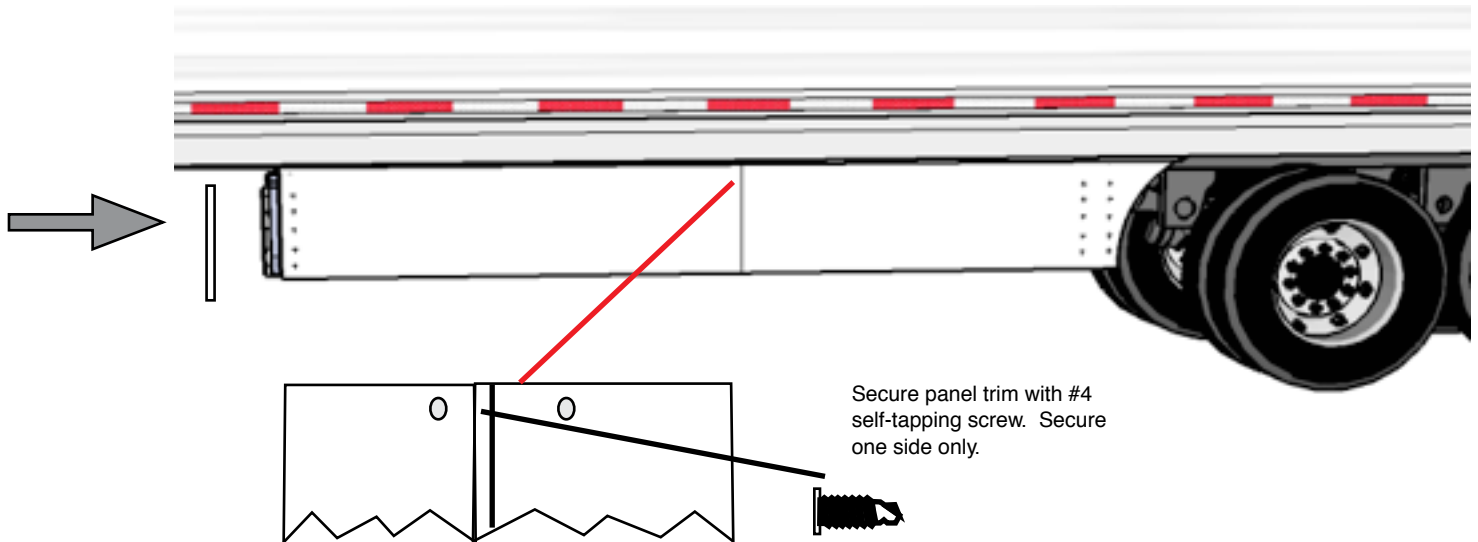
Panel trim slides over edge of panels. Slide trim over the panel and then secure at the top with the supplied self-tapping screw. **Fasten only one side.**



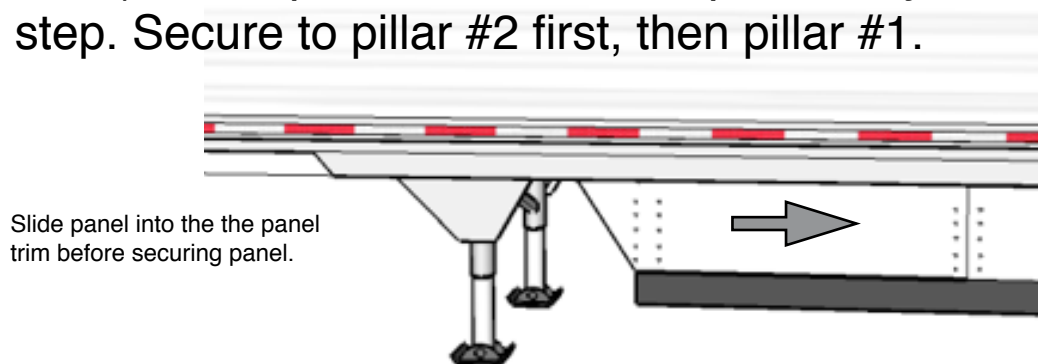
9. Mount the center panel. The Struts are notched so the aluminum angle on the back of the panel rests in the Strut's notch. Set the panel in place and then push the center panel securely into the panel trim at the front edge of the rear panel. The front edge of the center panel should be in the center of Strut 2. Check your position closely, then clamp, drill and rivet the center panel as you did the rear panel.



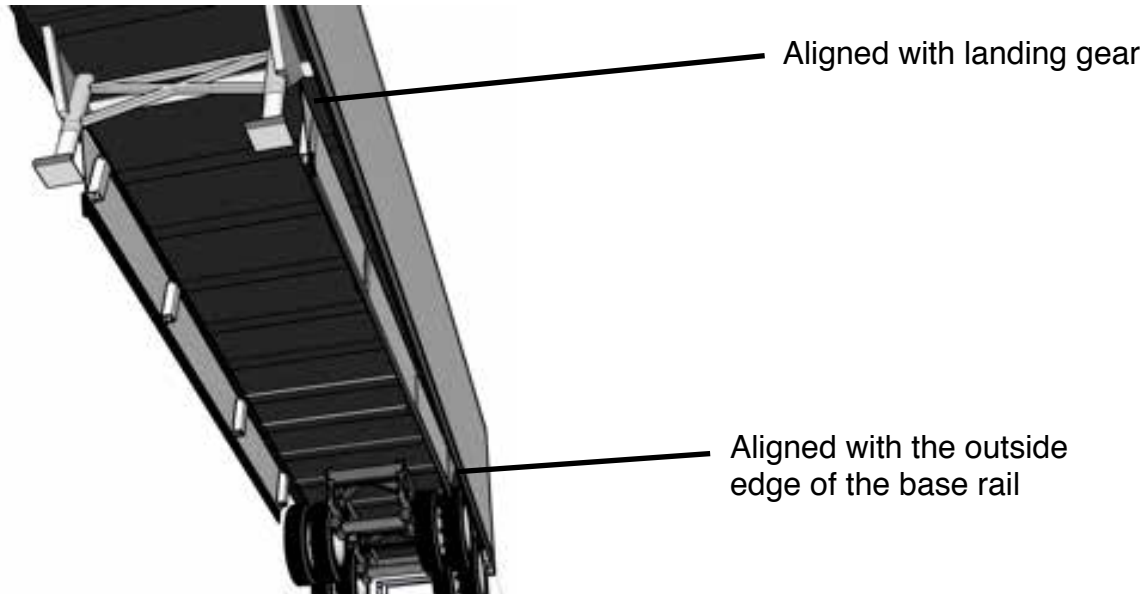
10. Install the panel trim. Install the panel trim on the front edge of the center panel, just as you did in Step 9. Slide the panel trim (white, aluminum H-channel) onto the front edge of the center panel. Secure the panel trim (one side only) with the supplied #4 self-tapping screw.



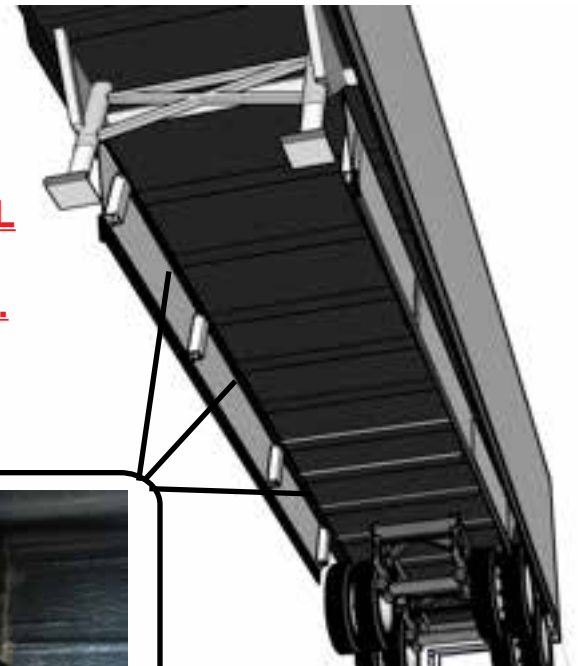
11. Mount the front panel. The pillars are notched so the aluminum angle on the back of the panel rests in the pillar's notch. Set the panel in place then slide the front panel securely into the panel trim at the front edge of the center panel. The rear edge of the panel should be in the center of pillar #2 (The front and center panels share pillar #2). Clamp, drill and rivet the panel as you did in the previous step. Secure to pillar #2 first, then pillar #1.



13. Check the alignment of the TrailerBlade. The entire blade should be straight. The rear edge should not extend beyond the outside edge of the trailer. The forward edge should be in line with the landing gear brace. Make any necessary pillar adjustments and then tighten the clamps.



14. Attach the panel safety cables. There is one safety cable per panel. Each strap mounts on the cross member closest to the midpoint of each panel. Loop the cable so that the loop runs parallel with the side of the trailer. **IMPORTANT: THE CABLE SHOULD NOT BE STRETCHED TIGHT. IT SHOULD ALLOW THE PANEL TO “FLOAT” SO THAT TENSION WILL NOT BE PLACED ON THE PANEL WHEN IT FLEXES INWARD. THERE SHOULD BE NO TENSION ON THE CABLE WHATSOEVER.**



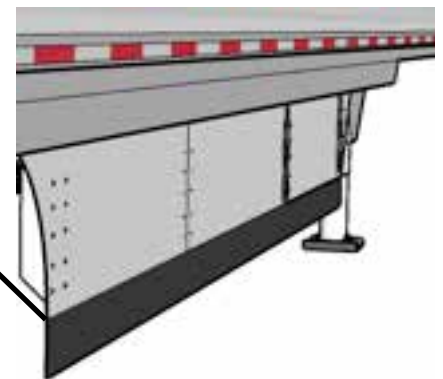
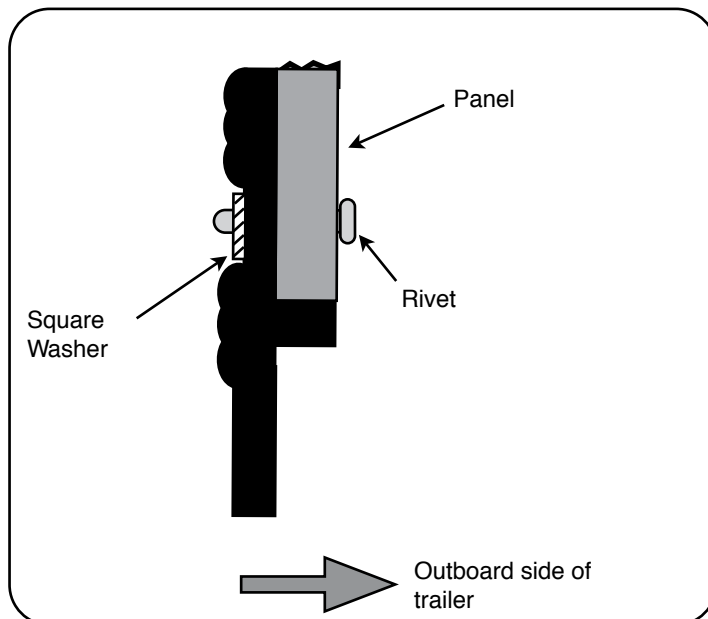
Safety Cable
(loop runs parallel with
the side of the trailer)

Bottom of cross
member

Aluminum angle at
back of panel.



15. Install the lower skirt. The ribbed edges on the rubber skirt mount to the inboard side of the trailer. Molded into the outboard side of the lower skirt (rubber skirt) is a square cleat. This cleat should abut the lower edge of the panel, giving you an easy way to align the lower skirt. ***You should start in the middle of the skirt and work outward toward both ends.*** Using the pre-drilled holes on the panels as a guide, drill through the lower skirt. Use the provided square washers and rivets to attach the lower skirt to the panel.



Repeat Steps 1-15 for the other side.

Refrigerated Trailers

There are many different tank configurations on refrigerated trailers. Understanding your particular tank configuration and following the details outlined here are key to a successful installation that will A) Maximize the performance of TrailerBlade and B) Meet the required regulations.

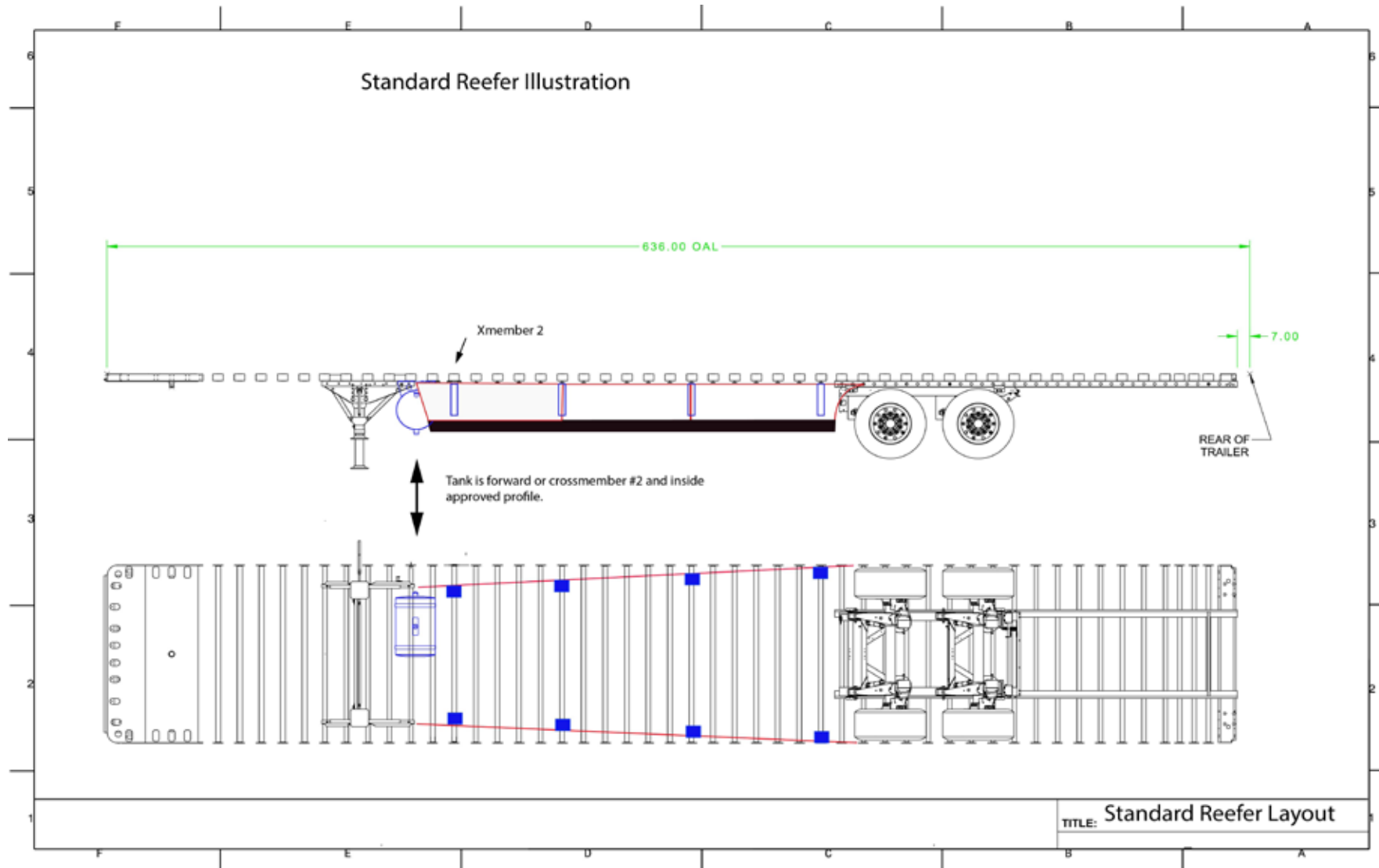
General Rule#1: If crossmember #2 is accessible, then you should not need to trim the tank-side front panel.

General Rule#2: If crossmember #2 is not accessible because either the tank or the tank bracket makes mounting the strut impossible, then you will need to trim the tank-side front panel.

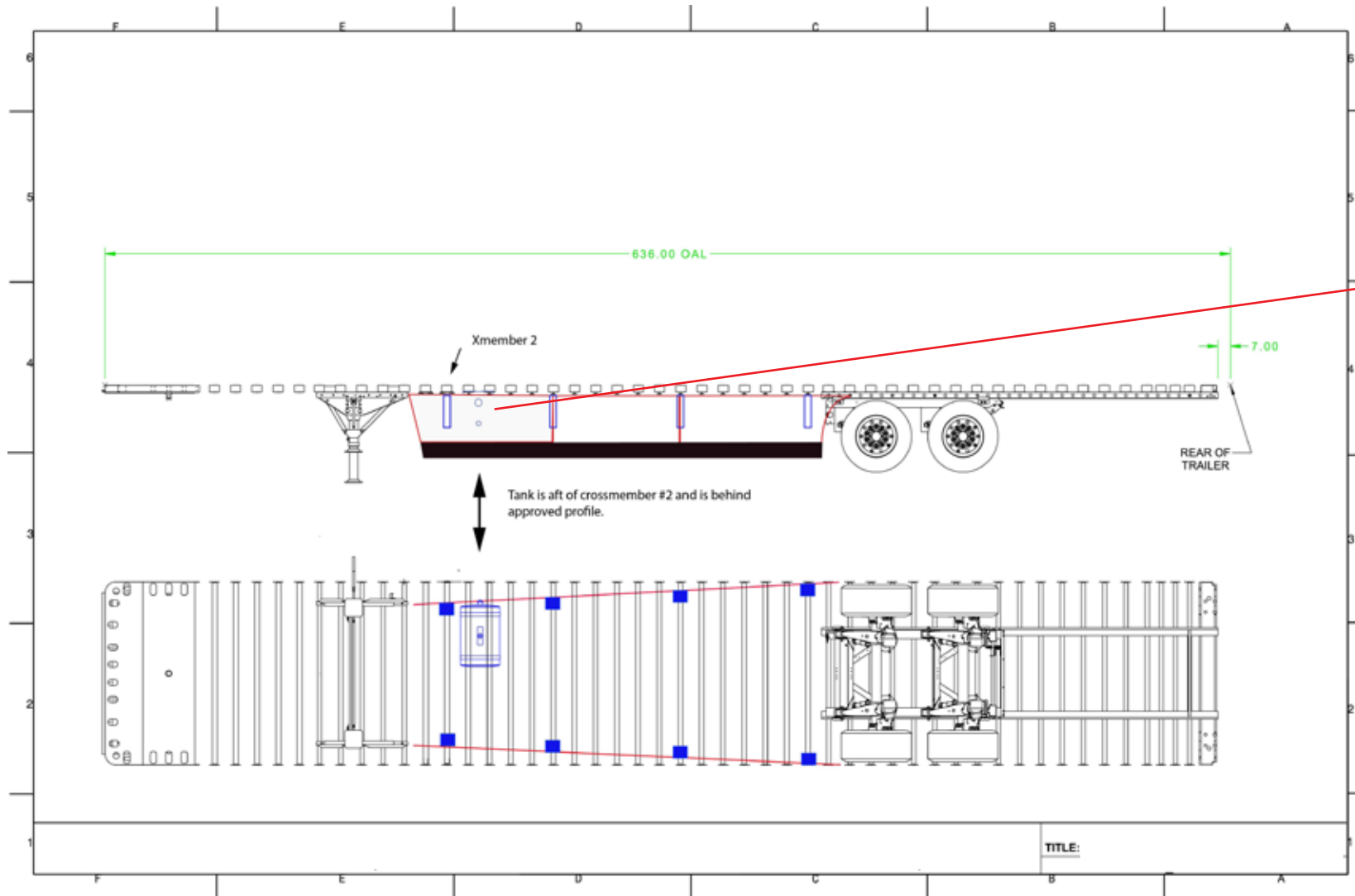
Often it is best to simply move the tank. If this is not practical, you should limit the amount of trimming to what is absolutely necessary. **In no circumstances, should you remove more than 36" from the tank-side front panel.**

Layout is available free of charge from TrailerBlade or your local authorized TrailerBlade dealer.

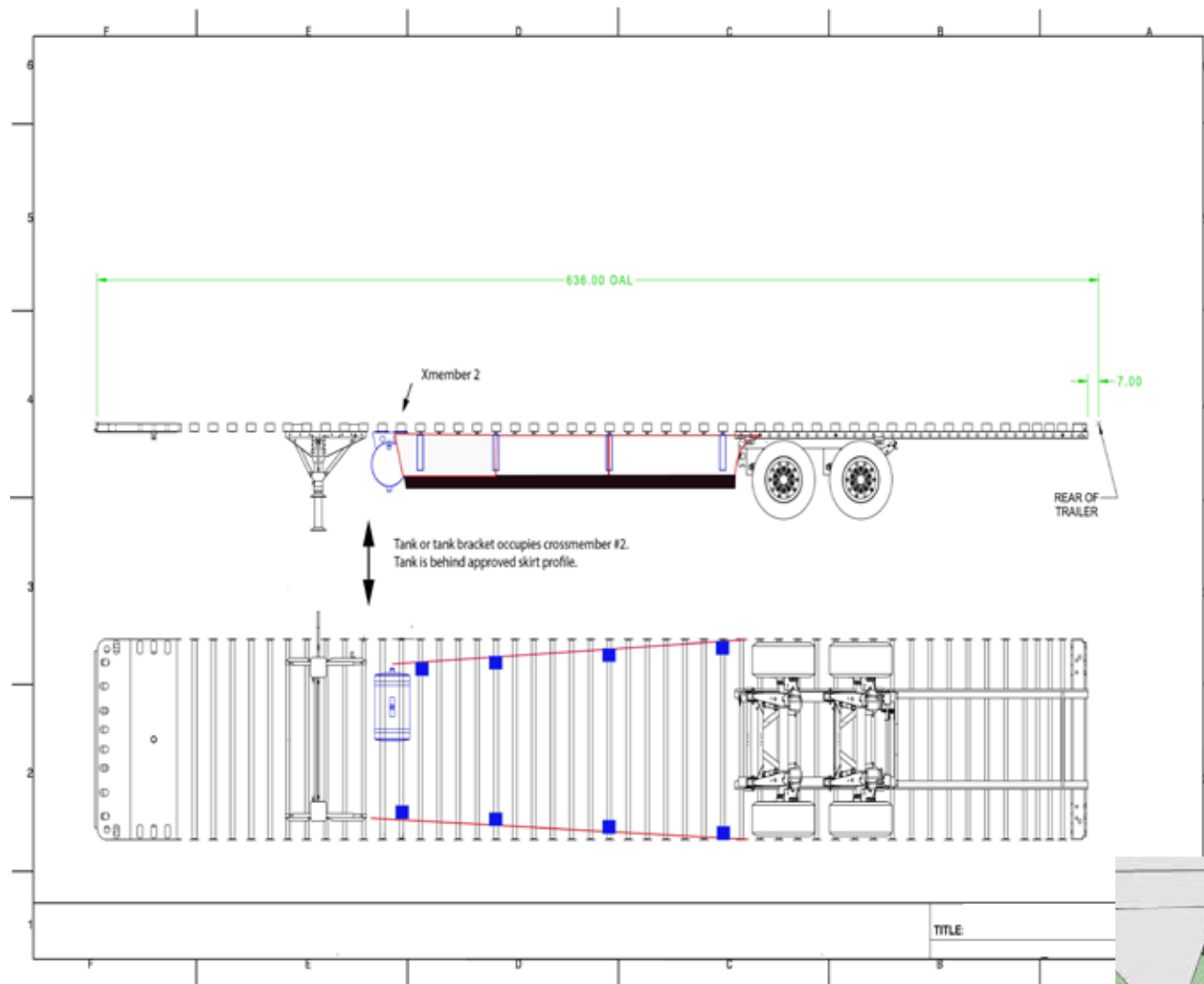
Method 1: Fuel tank is forward of Crossmember #2 and behind the wingplate. No trimming required.



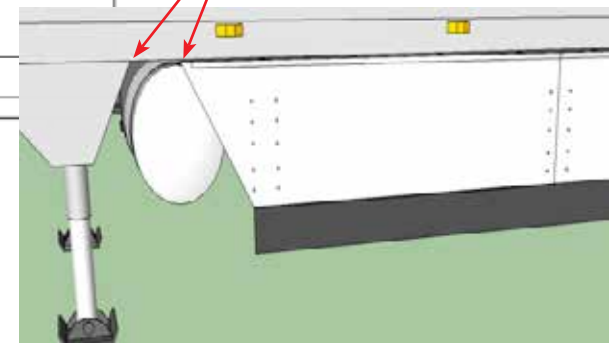
Method 2: Fuel tank is behind crossmember 2 and is inboard of the wingplate. Cover tank and drill access holes



Method 3: Fuel tank occupies crossmember 2. Tank-side panel must be trimmed.



Trim the front panel so that the tip of the blade is at the midpoint of the tank. This will allow adequate access and minimize aerodynamic loss. Typical trim amount is between 12-18". **Do not trim more than 36"**



WARRANTY

LIMITED WARRANTY

Strehl, LLC warrants Trailerblade to be free from any manufacturing or material defects for a period of one (1) year from the date of purchase.

WARRANTY LIMITATIONS

This warranty is valid only under normal use and maintenance. It does not cover damage associated with abuse, neglect, improper installation or as a result of an accident. It is neither transferable or assignable.

LIMITATION OF LIABILITY AND DAMAGES

THE WARRANTY PROVIDED HEREIN IS THE EXCLUSIVE WARRANTY PROVIDED BY STREHLAND SUPERSEDES ANY PRIOR, CONTRARY OR ADDITIONAL REPRESENTATIONS WHETHER WRITTEN OR ORAL. THE MANUFACTURER AND MANUFACTURER'S RESELLERS (COLLECTIVELY REFERRED TO AS "THE SELLERS") DISCLAIM ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. IN NO EVENT WILL THE SELLERS BE LIABLE FOR DAMAGES OR LOSS, INCLUDING BUT NOT LIMITED TO DIRECT, INDIRECT, SPECIAL, WILLFUL, PUNITIVE, INCIDENTAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES, DAMAGES FOR LOSS OF BUSINESS PROFITS, OR DAMAGES FOR LOSS OF BUSINESS OF ANY CUSTOMER OR ANY THIRD PARTY ARISING OUT OF THE USE OR THE INABILITY TO USE THE TRAILERBLADE, INCLUDING BUT NOT LIMITED TO THOSE RESULTING FROM DEFECTS IN THE TRAILERBLADE, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY, EVEN IF THE PARTIES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE TRAILERBLADE IS ASSUMED BY CUSTOMER. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OF LIMITATION OF LIABILITY FOR DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO THE PARTIES. IN NO EVENT WILL THE SELLERS' TOTAL CUMULATIVE LIABILITY OF EACH AND EVERY KIND IN RELATION TO THE TRAILERBLADE EXCEED THE AMOUNT PAID BY CUSTOMER FOR THE TRAILERBLADE.

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