

MARLON®

10' Single Multi Trailer



Assembly Instructions

Owner's Manual

Marlon Recreational Products

www.marlonproducts.com

1-800-663-7367

IMPORTANT SAFETY CHECKLIST

PLEASE NOTE: Trailers are not generally used every day. A trailer may sit for extended periods of time between uses.

It is very important to check all components thoroughly on the trailer before use.

- Make sure that the towing vehicle and the hitch on your vehicle are more than capable of towing the trailer. It is important to check your vehicle owner's manual for trailer ratings.
- Make sure the hitch is properly secured to the ball of the towing vehicle.
- Make sure the coupler is locked and the safety chains are attached to the trailer and the vehicle.
- Check the operation of all lights. Operating lights are mandatory on a trailer and must operate correctly.
- Inspect the trailer and all parts before use.
- Check to insure that all wheel bolts are tight. Torque to 95 ft/lbs. Re-tighten after the first 50 miles (80 kilometers).
- Check the tire pressure. Maximum 80 PSI (552 KPA) when carrying the maximum rated load.
- Repack the wheel bearings every 2,000 miles (3,200 kilometers) or a minimum of once every year.
- The trailer ball must be a 2" ball. Check that the trailer coupler is fastened securely onto the towing vehicles ball.
- If your trailer has an optional side kit, make sure all the bolts and pins are in place and secured tight before transporting your trailer.
- Do not exceed the Gross Vehicle Weight Rating (G.V.W.R.) which is shown on the trailer serial / certification label.
- Balance and secure the load on the trailer. See the trailer loading section in this manual.
- Lubrication of the coupler, springs, and the tilt mechanism should be done periodically to stop corrosion and keep parts moving freely.

By following these simple instructions, you will maximize the life of your trailer and help safely transport your cargo.

WARNING!!!

DO NOT ABUSE THE TRAILER. Performance of the Marlon trailer is best if you follow the guidelines in this manual. Do not force the Marlon trailer to do a job it is not designed for. Know your Marlon trailer; learn its limitations and applications.

- **KEEP CHILDREN AWAY.** Be sure children are kept a safe distance from the Marlon trailer operating area.
- **NEVER** sit or ride on the Marlon trailer. Serious injury or death could occur.
- **EXERCISE EXTREME CAUTION WHEN TILTING THE TRAILER.**

There are many areas of the Marlon trailer where injury can occur if used improperly. The Marlon trailer may tilt quickly and unexpectedly during the loading and unloading process. The tilt option should not be used for heavy loads.

- Ramps should always be used for loading heavy items.
- **DO NOT** drive with the Marlon trailer in tilted position.
- If the Marlon trailer is incorrectly attached to the vehicle, it could pull away from the vehicle and detach.
- Always check your tire pressure before transporting your trailer.
- Secure trailer to the towing vehicle before transportation. Make sure the coupler is locked and the safety chains are attached to the trailer and the vehicle.
- Secure your cargo into the trailer properly and in compliance to local laws.
- Always test your trailer lights before transporting your trailer and check your light hookup periodically during transport.
- When driving do not exceed the speed limit. Braking time can be considerably longer when a vehicle is towing a loaded trailer.
- Any modifications made to the trailer or parts of the trailer will void the trailer warranty and release Marlon and any related companies of any responsibility for liability, damages, injuries or accidents incurred.
- Any improper use or failure to follow the safety check list herein will void the trailer warranty and release Marlon and all related companies of any responsibility for liability, damages, injuries or accidents incurred.

A. How To Use The “2 Position Axle” 10’ Single Multi Trailer

1= Back Position 2 = Front Position

The Marlon trailer comes with a 2 position axle design. This feature allows the user to control how much of the trailers load is distributed to the vehicle. This feature has the benefit of improved handling under low load conditions and reduced tongue weight under heavy load conditions. This feature also allows the trailer to use a tilt position.

B. How to Use the “Tilt” Feature

The Marlon trailer has a tilt feature to help with loading and unloading of cargo.

How to: First make sure the trailer is attached to the towing vehicle. Loosen the tongue clamp locking bolt enough to allow the brace to turn out of the way of the tongue, this will allow you to tilt the trailer to the dump position.

CAUTION WHEN TILTING THE TRAILER: The trailer may tilt quickly and unexpectedly during the loading and unloading process.

OWNER’S MANUAL / www.marlonproducts.com

BOLT TORQUE SPECIFICATIONS

PLEASE NOTE: All bolts should be properly tightened on your trailer. To properly transport your trailer the torque specification for key components are given below. Please refer to diagram #2 and the parts list located on page 10 to identify the items referenced.

DESCRIPTION	TORQUE IN FT / LBS
Tire / Wheel lug nuts	95
Axle mounting bolts	75
Fender and fender brackets	40
Attach tongue to trailer	75
Attach coupler to tongue	80

LIGHTING & WIRING (See Figure #3)

SYMBOL	COLOR	DESCRIPTION	OPERATION	
G	GREEN	Passenger Side / Right	Right Signal	Brakes
B	BROWN	Running Lights	Taillight Marker	Yellow Side Marker
Y	YELLOW	Driver Side / Left	Left Signal	Brake
W	WHITE	Ground	Trailer Ground	

To test vehicle wiring:

You will need a 12V light tester. Attach the wire clamp of the tester to the ground wire on the vehicle plug (see Fig 3). Then touch the tester pin to one of the vehicles plug contacts. Turn on the corresponding vehicle operation i.e. running lights. This will illuminate the tester light if the vehicle wiring is correct. Follow the same procedure for the signal and brake lights.

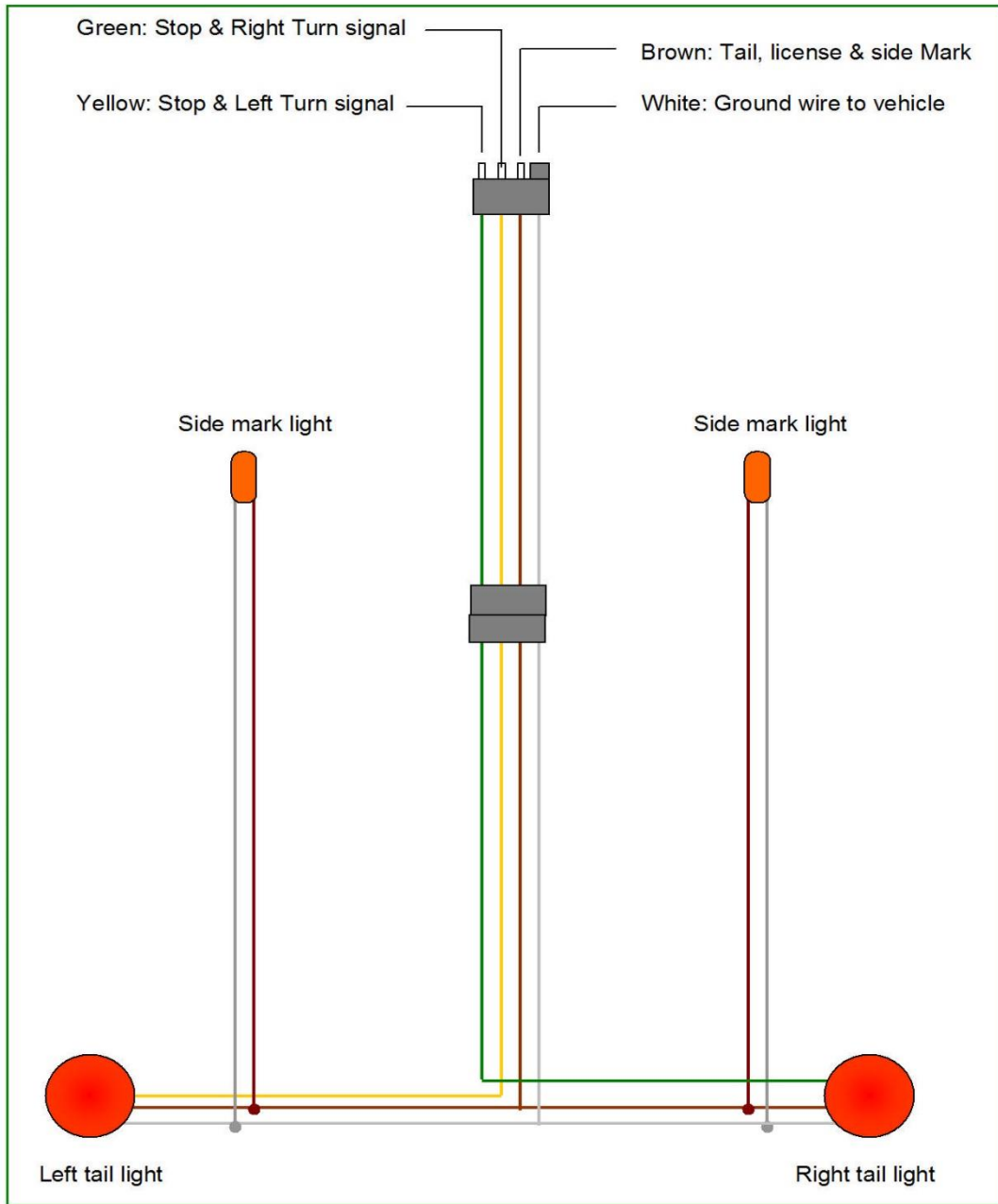
To test the trailer wiring:

Once you have confirmed that the vehicle trailer plug is operating properly, connect the trailer plug to your vehicle. Proceed to test each of the lights and power leads using your 12V light tester. Follow the wiring legend and diagram to test each corresponding wire for power when trailer light is not operating.

Always be sure to check your brake, running, and signal lights before each use. Make sure that all of your connections are solid and that all wiring is in good condition.

Note: Bare, striped or pinched wire will cause a short in the trailer, which will cause the vehicle to blow a fuse. A solid ground is required for your lights to work properly. All contacts must be to bare metal. Light covers should be well maintained and kept clean. Be sure that your lights are always visible, not obstructed by your load.

WIRE DIAGRAM



SUBJECT TO CHANGE WITHOUT NOTICE

LOADING THE TRAILER

- Distribute the weight evenly on the bed of the trailer.
- Center the load over the axle, keeping about 10% of the weight on the tongue.
- Center the load from side to side.
- Always secure your cargo into the trailer properly and in compliance to local laws.
- **The trailer needs to be loaded so the frame is parallel to the ground** and not tongue or tail-heavy. Uneven loads will cause the trailer to not tow properly.

TRAILER CAPACITY

Never overload your trailer. Each trailer has a maximum payload that should not be exceeded. Overloading your trailer could cause serious damage to your trailer as well as to the towing vehicle. Please refer to your trailer serial/certification label located on the frame of the trailer for capacity details.

The Gross Vehicle Weight Rating (G.V.W.R.) is: 1,850 lbs.

The weight of the trailer + the maximum payload the trailer can carry. The trailer weight and the payload must not exceed this (G.V.W.R.) weight rating.

Be sure that any load carried in your trailer does not extend beyond the frame of your trailer. Never place loads on one side only.

TONGUE WEIGHT

The tongue weight is 10% of the load (this does not include the weight of the trailer).

The load is divided so that 90% of the load is over the axle and 10% is over the tongue.

TRAILER COUPLER

ITEM#	DESCRIPTION
1	2" Trailer coupler
2	Locking handle
3	Channel lock
4	Adjustment nut
5	2" Trailer ball (not included)

To adjust coupler to ball:

Set the coupler and tongue on to the 2" trailer ball on your vehicle.

Raise the locking lever, push up on channel lock and turn the nut to tighten or loosen the coupler. Proper adjustment is obtained when the coupler is as tight as possible on the ball and the locking lever can still be opened and closed.

Before towing your trailer be sure to check the capacity of your trailer hitch on your vehicle (**never exceed this or your trailers capacity**). The Marlon trailer is equipped with a 2" coupler and must be used with a 2" trailer ball. Make sure that the trailer ball is completely engaged in the coupler ball.

WHEEL & HUB ASSEMBLY

NOTE: Bearings should be repacked every 2,000 miles (3,200 kilometers). Your trailer dealer or any automotive shop is equipped and able to repack the bearings if you're unable to do yourself. **For your convenience, a grease zerk fitting is located behind each wheel which only requires the use of a grease gun to service, or you can do it manually as follows;**

Repacking Wheel Bearings

1. Loosen wheel bolts (Do not remove!).
2. Support trailer so wheels are off the ground safely and secured.
3. Remove bolts and wheel.
4. Disassemble hub.
5. Clean hub and pack bearings with wheel bearing grease.
6. Reinstall bearings, nut, and cotter pin.

Caution: DO NOT over tighten nut. The hub must turn freely and without play.

7. Re-attach bolts and wheel (Torque to 80 lbs.).

TRAILER LICENSING

In order to license your trailer, you will need to have two items in your possession.

1. **The Manufacturers Certificate of Origin**: This form is provided at the time of purchase.
2. **Bill of Sale**; This is the cash register receipt provided from the business that you purchased the trailer from.

You must have both items when you go to your local insurance office or state department of motor vehicles to register and license your trailer. Once you pay the appropriate fees you will be issued a title / registration and a license plate.

If you require any further information regarding this issue please call your local insurance office or state motor vehicle department (DMV), or visit online DMV.org for specific state information.

U.S. VIN TAG

MFD BY: MARLON RECREATIONAL PRODUCTS LTD.		DATE: 01/2010	
GVWR: 726 KG(1600 LB)	GAWR (EACH AXLE):		726 KG(1600 LB)
COLD INFLATION PRESSURE			
TIRE	RIM	KPA (PSI)	SGL/DUAL
4.8 X 12	12" X 5"	414 KPA(60 PSI)	SINGLE
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE			
V.I.N.		TYPE OF VEHICLE	
52ZBU061XA1000001		TRAILER UM4872	

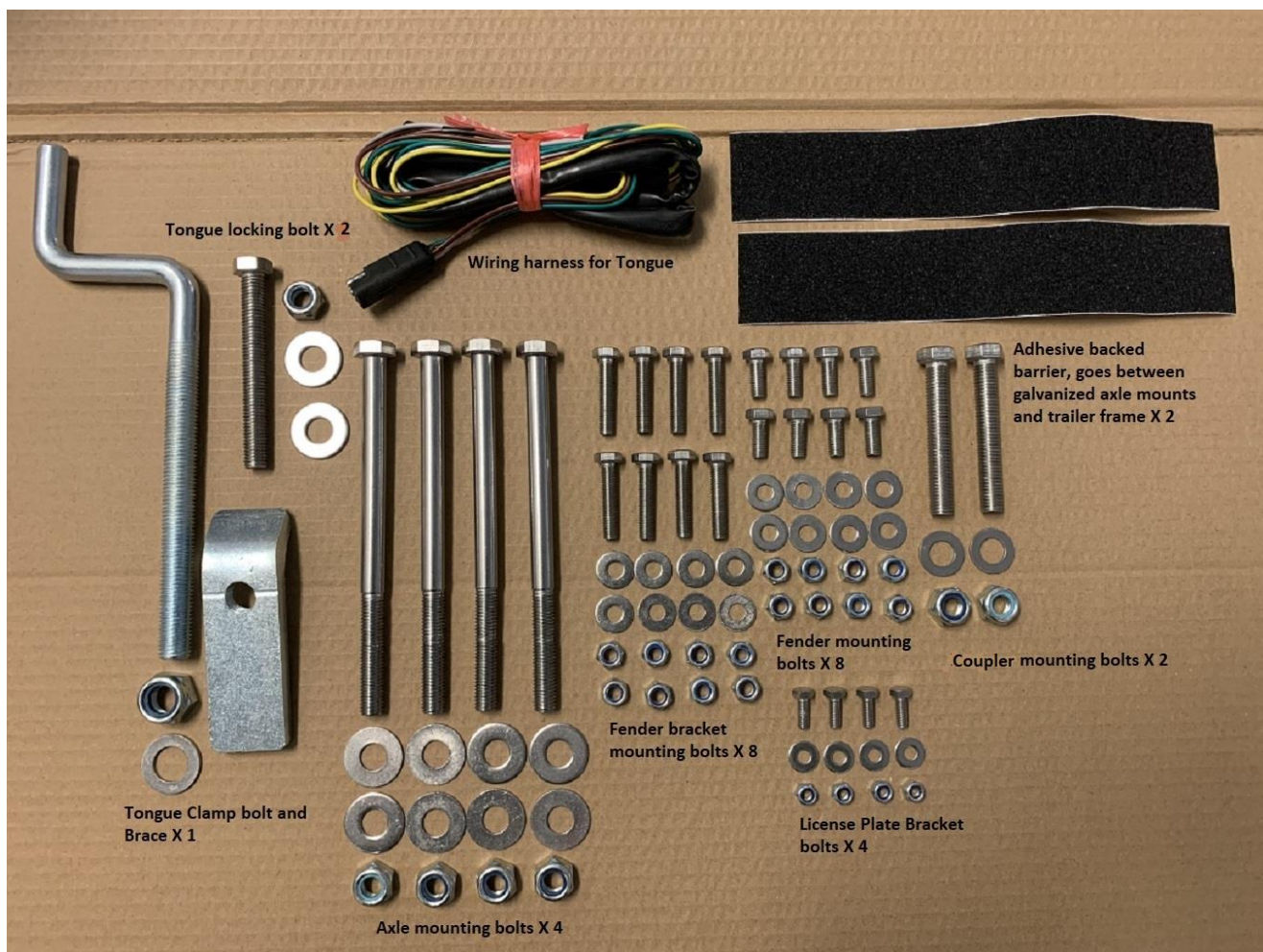
Every trailer has a VIN tag located at the front left side of the trailer. The VIN number on this tag must match the VIN number on the MSO.

CANADIAN VIN TAG



MANUFACTURED BY/FABRIQUÉ PAR: MARLON RECREATIONAL PRODUCTS LTD				
DATE: 01/2010	GVWR/PNBV: 726 KG(1600 LB)	COLD INFL. PRESS. /PRESS. DE GONF À FROID		
GAWR/PNBE (EACH AXLE)	TIRE/PNEU	RIM/JANTE	KPA (PSI/LPC)	SGL/DUAL
726 KG(1600 LB)	4.8 X 12	12" X 5"	414 KPA(60 PSI)	SINGLE
THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE. / CE VÉHICULE EST CONFORME À TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU RÉGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILES DU CANADA EN VIGUEUR À LA DATE DE SA FABRICATION.				
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE				
V.I.N./N.I.V. 52ZBU061XA1000001		TYPE/TYPE DE VÉHICULE: TR/REM UM4872		

	Description	Material	Quantity	Washers	Nuts
1	Tongue locking bolt	100 x 10mm	2	4	2
2	Wiring harness	one end flat 4	1	0	0
3	Tongue clamp bolt	270 x 12.5mm	1	1	1
4	Axle mounting bolts	180 x 10mm	4	8	4
5	Fender bracket mounting bolts	40 x 7mm	4	4	4
6	Fender mounting bolts	20 x 7mm	4	4	4
7	Adhesive backed barrier	270 x 50mm	2	0	0
8	License plate bracket bolts	20 x 7mm	4	4	4
9	Coupler mounting bolts	80 x 10mm	2	2	2



ASSEMBLY INSTRUCTIONS

1. Apply the adhesive backed barrier to the axle mounts on both sides of the axle.



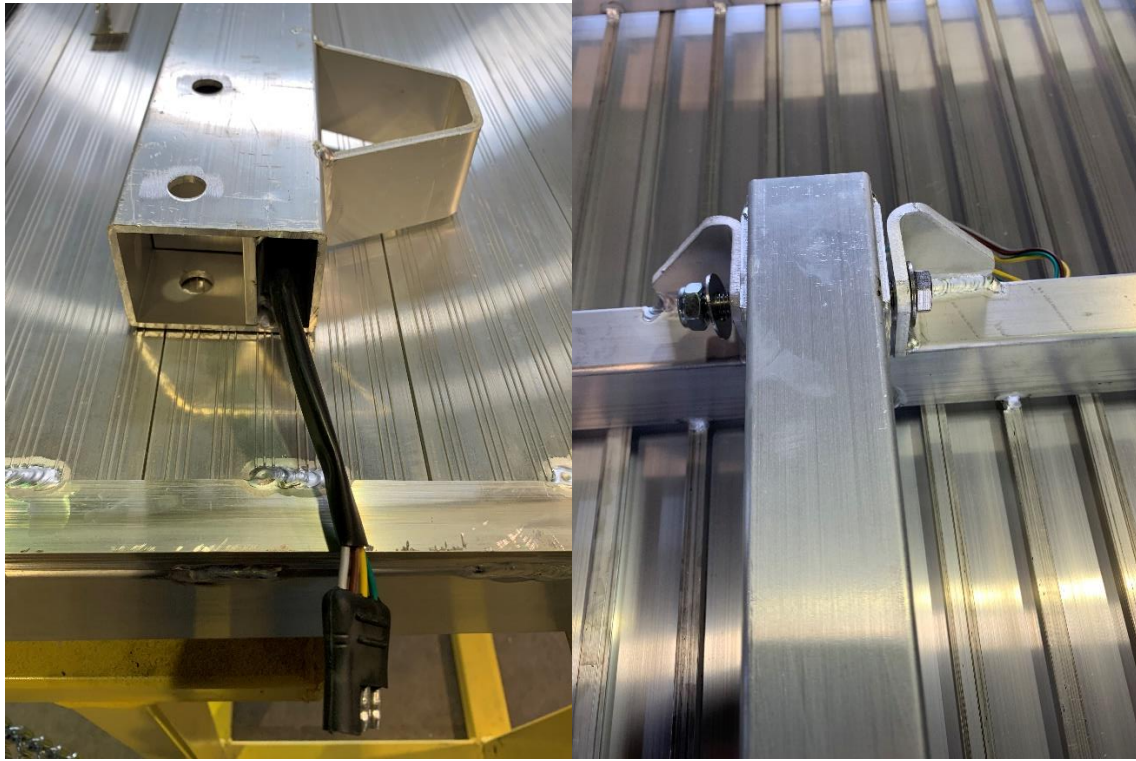
2. Bolt the axle to trailer frame 180 x 10mm bolts, washers and nylocks. Torque to 75 ft/lbs of pressure.



Note: There are 2 sets of holes in the frame. The front set are used for carrying snowmobiles and the rear set are used when carrying 50" SXS/UTV's.

Note it is imperative for proper towing & safety to have the axle in the correct position.

3. Run the wiring harness through the tongue, flat 4 end to the front. Then attach the tongue to the frame using the 100 x 10mm bolts. Torque to 75 ft/lbs of pressure. Then connect the tongue wiring to the frame wiring connector.



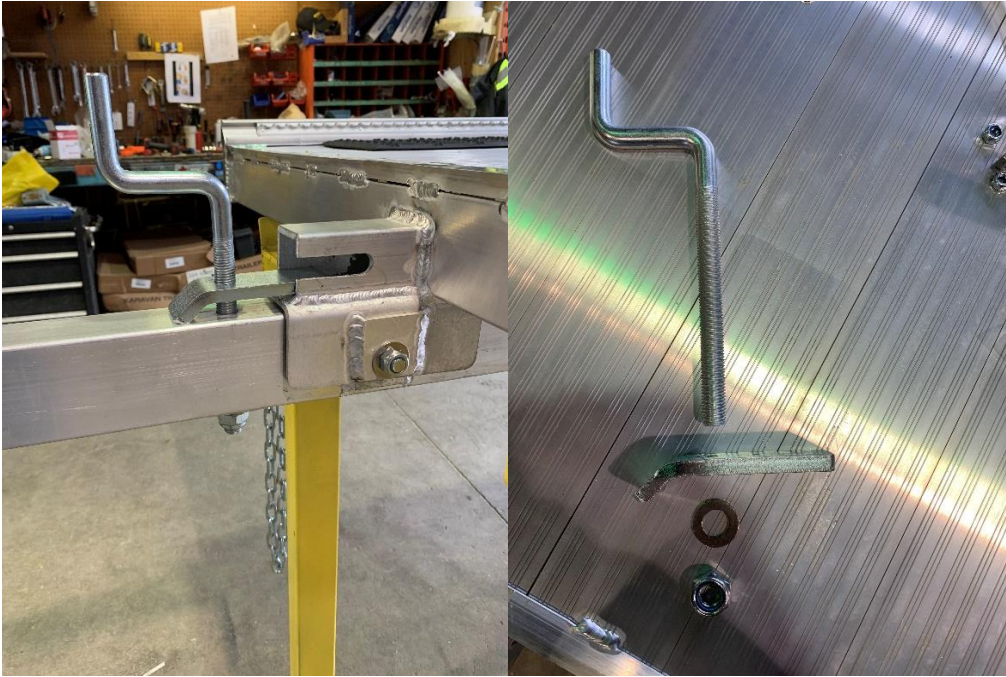
4. Attach the fender mounting brackets to the side rail using the 40 x 7mm bolts. Note, there are 4 sets of holes per side. If you put the axle in the forward position (sled) then use the 2 sets of forward fender bracket holes. If you mounted the axle in the back position (SXS/UTV) then use the rear holes for the fender mounting brackets.



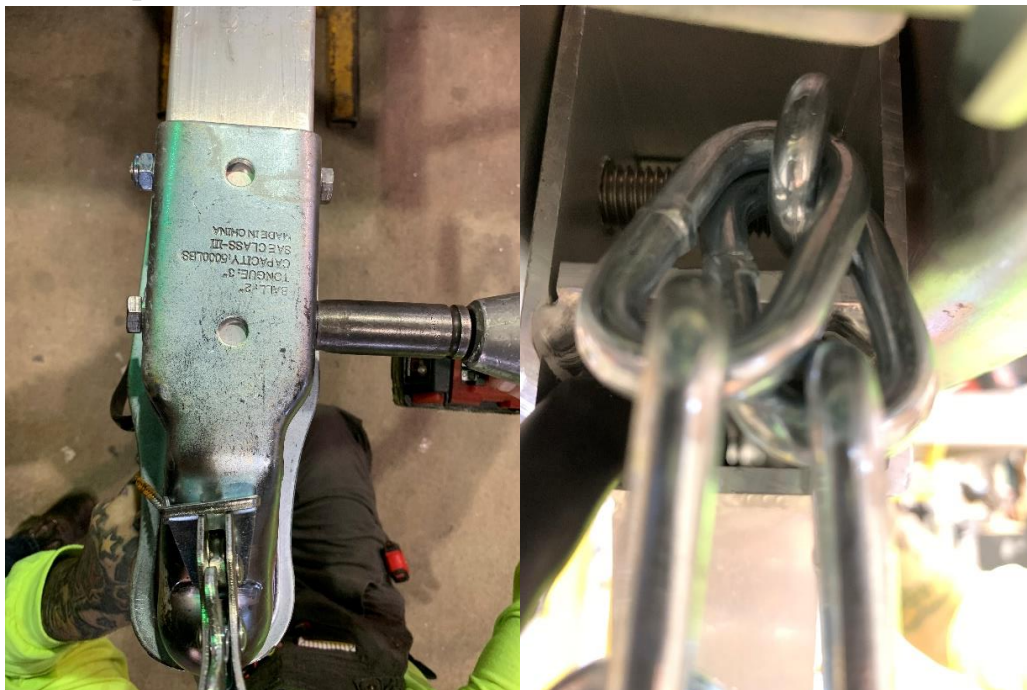
5. Mount the fenders to the fender brackets using the 20 x 7mm bolts. Make sure the bracket orientation matches the picture below.



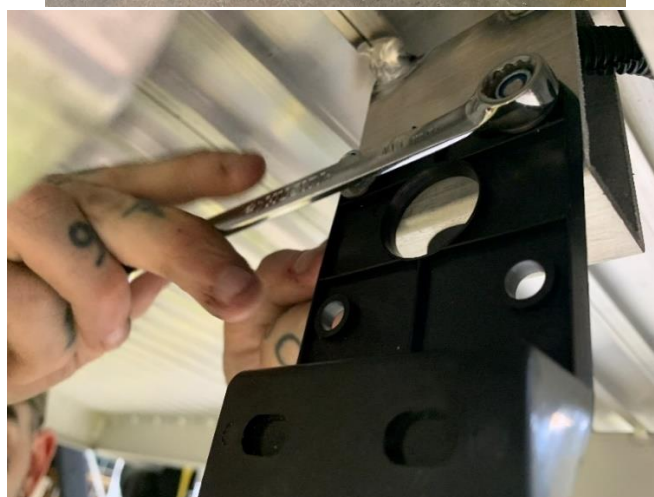
6. Install the tongue clamp bolt and brace and front tongue tie down bolt (if required). This bolt is the 100 x 10mm and is used if the customer does not want to use the tilt function of the trailer. **This is a requirement when using the trailer to carry 50" SXS/UTV due to the weight of the machines.** Optional SXS/UTV ramps must be used in place of the tilt option.



7. Attach the coupler to the tongue and the safety chains at the same time. Use the coupler mounting bolts, 80 x 10mm. The center link of the safety chain slides through the front bolt. Torque to 95 ft/lbs.



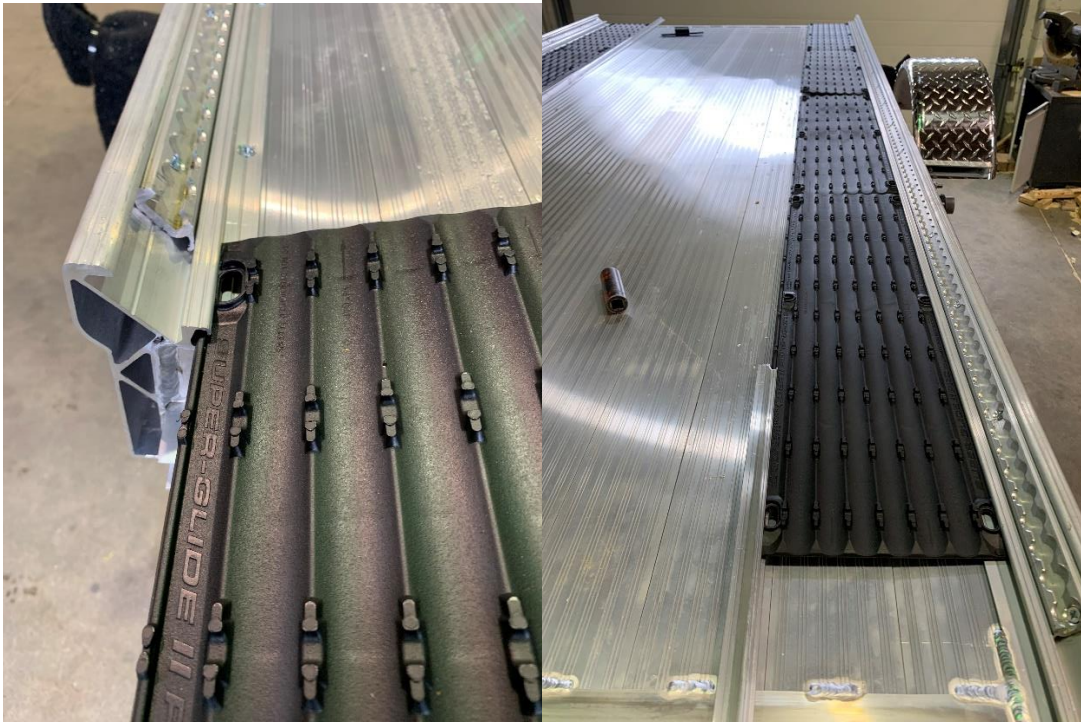
8. Install the tires (ST175/80R13C) and torque to 95 ft/lbs of pressure. Now install the license plate holder and test lights.



Single Multi Trailer Options

SuperGlides install.

1. Slide wide SuperGlides into siderail extrusion, 4 pieces will fit, then slide on the SuperGlide extrusion.

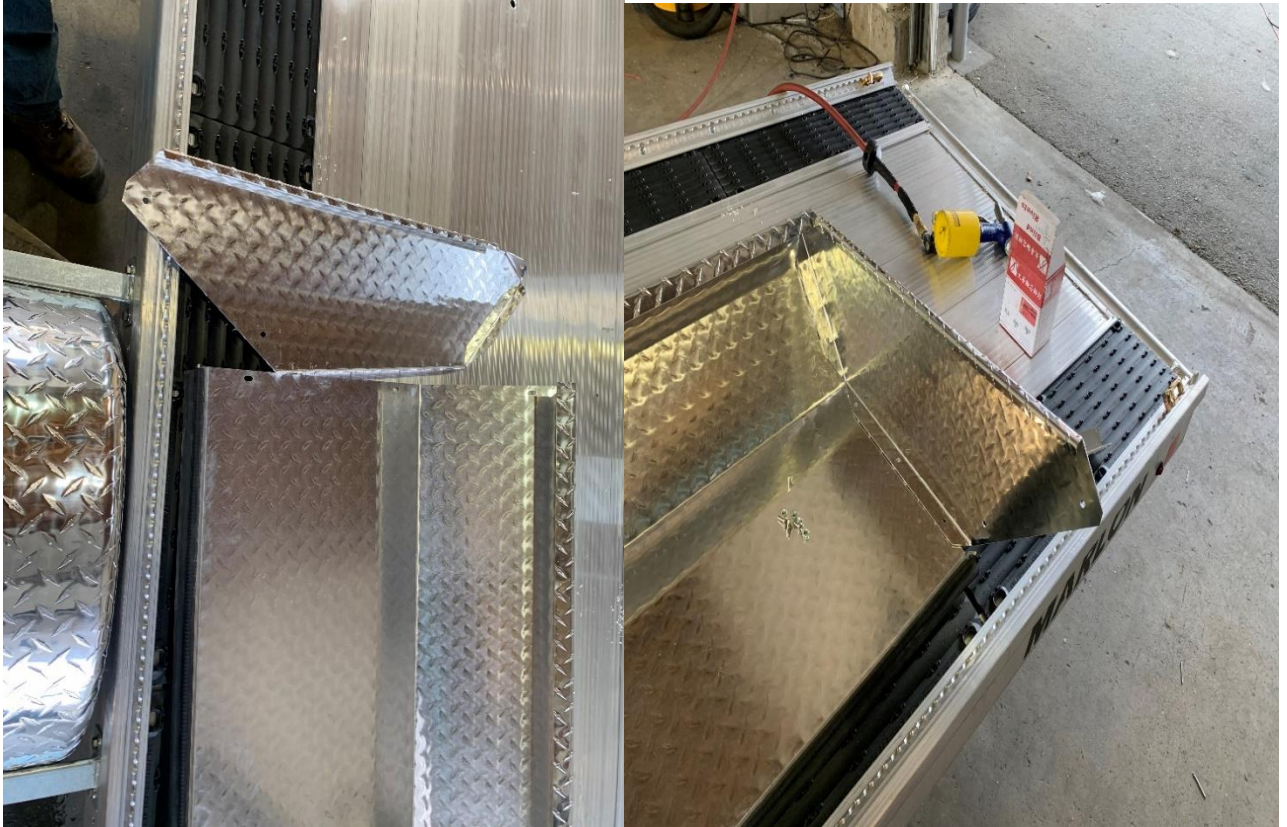


2. Rivet the extrusion down 1 inch from each end. Then starting at the back of the trailer at 29.5" then 59" then again at 88.5" for a total of 5 rivets per length of SuperGlide extrusion. Then rivet the end of the front and rear glide as per picture below, it is not necessary to rivet any of the middle 2 glides.



Salt Shield with Rubber Seal

1. Assemble the salt shield completely first. (All required parts to assemble and attach the shield come in the kit.) Start with bolting the sides on. Then bolt on the angle pieces to the bottom of the side as shown in the picture.



Push the rubber seal onto the bottom edge of the shield. Ensure the steel clips slide all the way over the aluminum.



2. Position the shield over the leading edge of the trailer. Center it between the siderails and forward so that the leading edge of the trailer is in line with the bottom bend on the shield. (See pic below.)

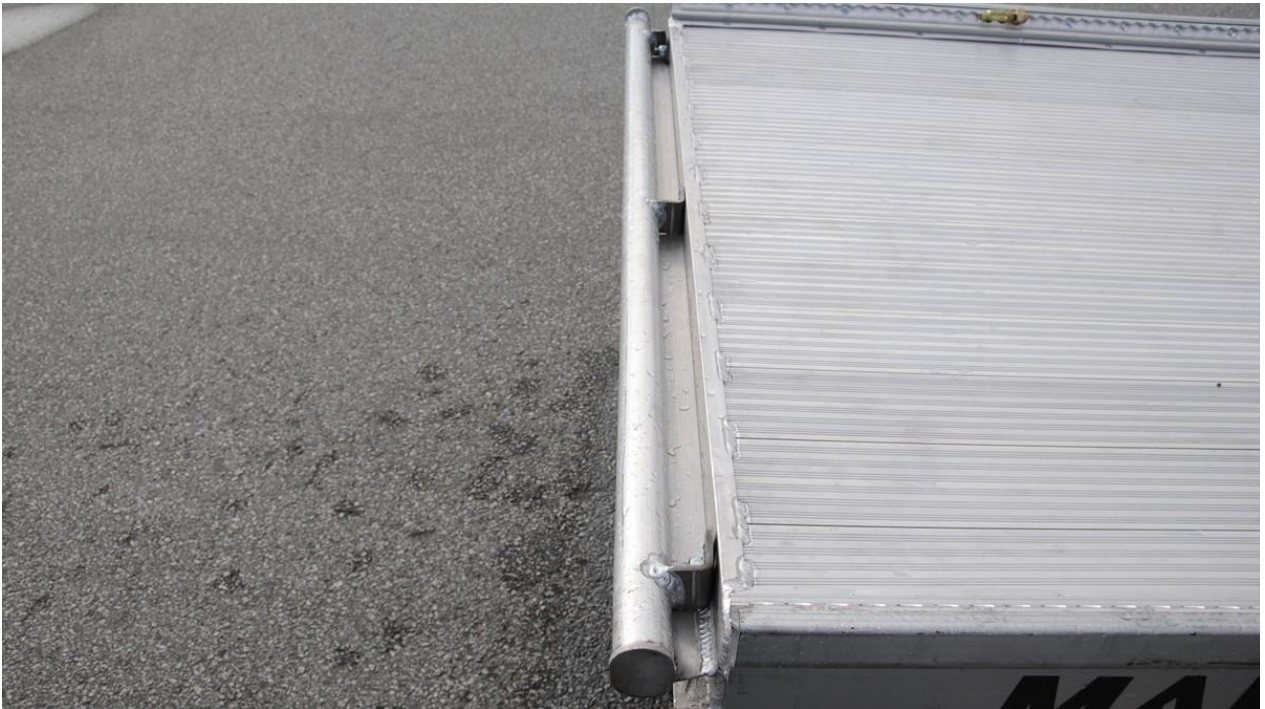


3. Screw down the shield with the self-tapping stainless steel screws, there are 10 pre-drilled holes to use as guides.



Rear load bar

1. The rear load bar comes with the required hardware, you simply bolt it to the back of the single trailer.



SXS Ramps and Tray

1. The 4 SXS ramp trays bolt on to the tabs under the trailer. The required hardware comes with the trays.

