

MARLON®

10' & 12' Multi Trailer



(Tandem available on 12' only)

Assembly Instructions / Owner's Manual

OWNER'S MANUAL / www.marlonproducts.com

Marlon Recreational Products

www.marlonproducts.com

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 ensure 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.

FEATURES

A. How To Use The “2 Position Axle” 12’ Single Multi Trailer

1= Back Position 2 = Front Position

The Marlon trailer 12’ Multi comes with a 2 position axle mounting riser. This feature allows the user to add the optional tandem axle. This feature has the benefit of improved handling under heavy load conditions and reduced tongue weight.

Note the addition of the Tandem axle disables the trailer ability to tilt.

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.

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
Axle mounting riser bolts	75
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:

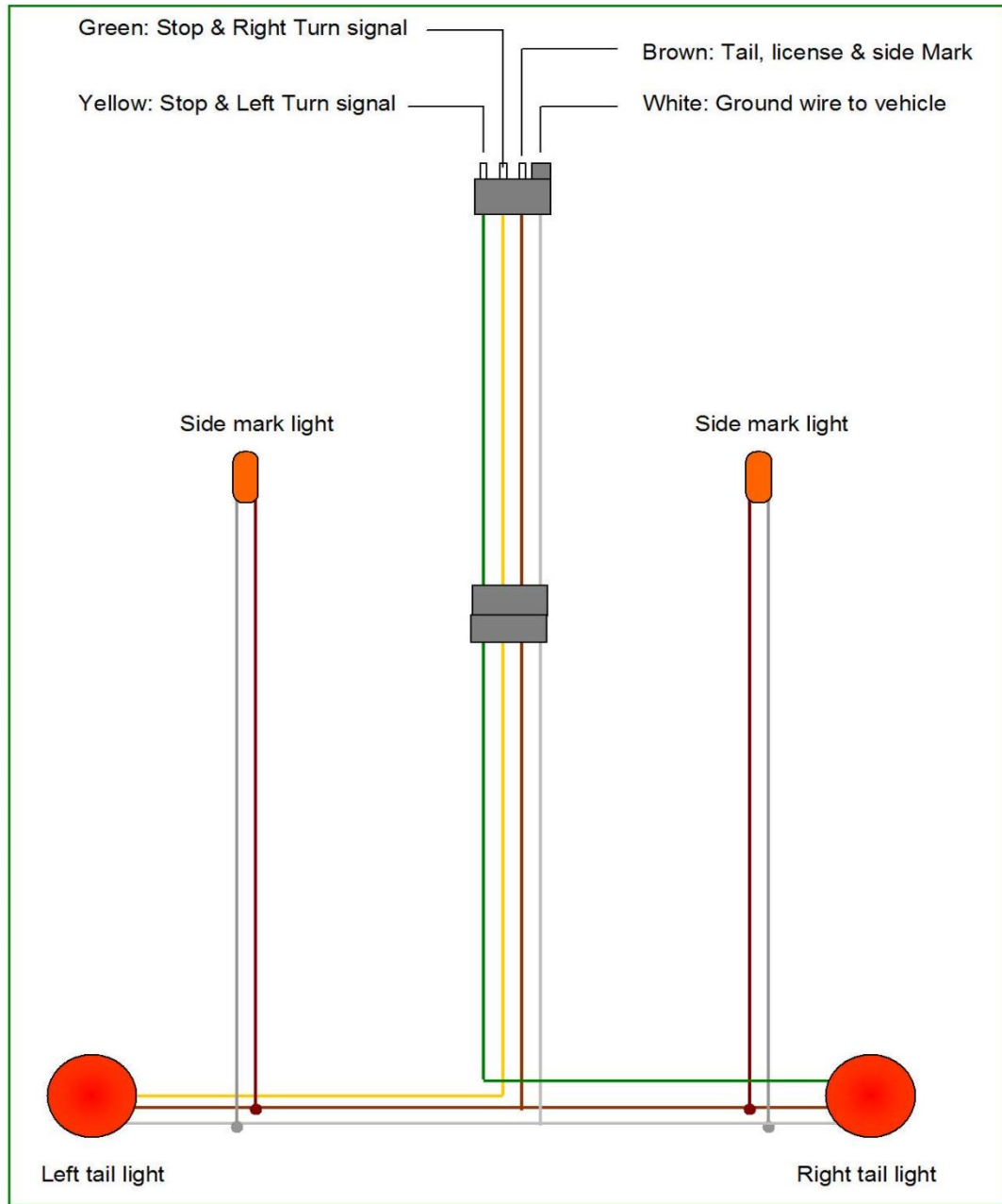
You will need a 12V light tester. Attach the wire clamp of the tester to the ground wire on the vehicle plug (see Fig 3). Then touch the tester pin to one of the vehicles plug contacts. Turn on the corresponding vehicle operation (i.e. running lights). This will illuminate the tester light if the vehicle 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 and 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 in a way that 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: 2,990 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 are unable to do it 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 where 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: TRAILER UM4872	

Item No.	Description	Material	Quantity	Washers	Nuts
1	Tongue Clamp Bolt And Brace	270 x 12.5mm	1	1	1
2	Axle Mounting Bolts	320 x 10mm	4	8	4
3	Axle Mounting Riser Bolts	200 x 10mm	4	8	4
4	Tongue Bolts	130 x 10mm	2	4	2
5	Tilt Lock Out Bolts	130 x 10mm	2	4	2
6	Coupler Mounting Bolts	1-100x10, 1- 40x10, 1- 30x10mm	3	6	3
7	License Plate Bolts	15 x 3mm	4	8	4
8	Adhesive Backed Barrier	1110 x 50mm			



ASSEMBLY INSTRUCTIONS

1. Apply the adhesive backed barrier to the axle mounting riser. Cut out the bolt hole with a sharp knife.



2. Bolt the axle mounting riser to the trailer frame with the adhesive barrier side up so that it contacts the frame. Use 200 x 10mm bolts, washers, and nylocks. Torque to 75 ft/lbs of pressure.





Note the axle mounting riser for the 10' (108 cm) has only one set of axle mounting holes. (See picture above.)

The axle mounting riser for the 12' trailer has 3 positions. The middle position is for mounting a single axle. The front and rear holes are only to be used with the addition of the tandem axle options. (See picture below.)



3. Bolt the axle to the riser using the axle mounting bolts (320 x10mm). Torque to 75 ft/lbs of pressure.

Note: Make sure you use the correct mounting holes for the 12' trailer. Either single or tandem axle set up. (12' only available as a tandem). **Reminder tandem axle option deletes the ability to tilt trailer.**



4. Bolt the wishbone tongue to the frame, using the 130 x10mm bolts, torque to 65 ft/lbs of pressure. Plug in the wiring harness on both sides of the tongue.



5. Swing the tongue up into place and install the tilt lock out bolts.

If the trailer is to be used as a drive on back off trailer. These bolts increase the strength of the trailer.



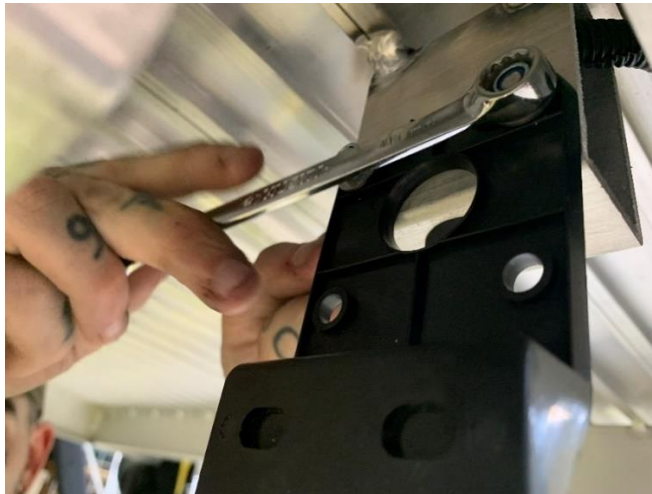
6. Install the coupler to the tongue. **Note there are 3 different length bolts.** The 2 shorter bolts go towards the front and the larger of them is where you slide the center link of the safety chain over. The area is tight but will fit. This will keep the coupler from being narrowed by a single bolt.



7. Install the tongue clamp bolt and brace. This is the 270 x 12.5 tongue clamp bolt with the 2 bends.



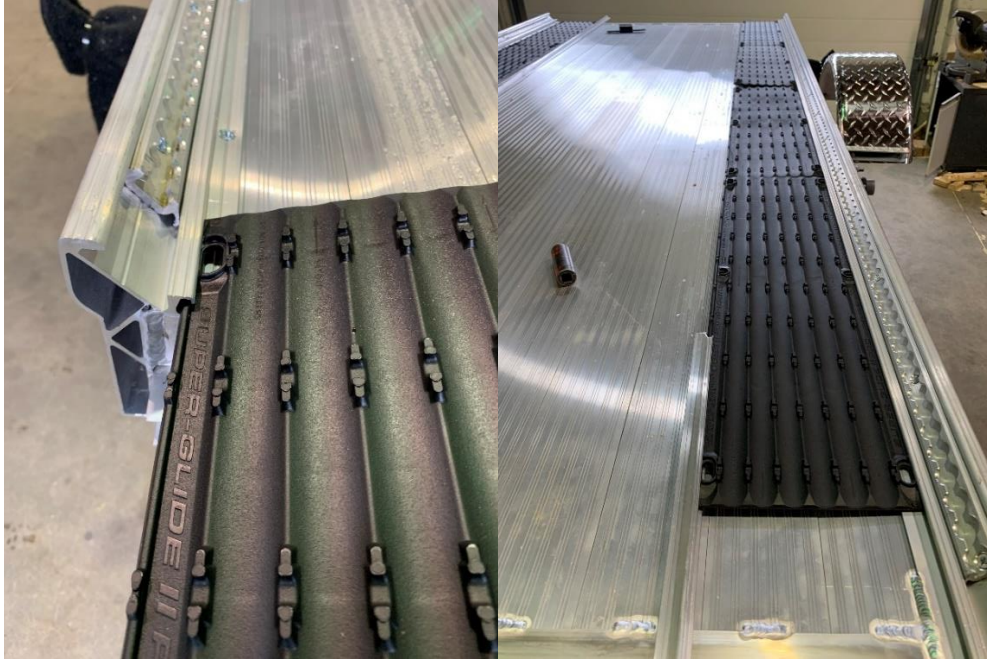
8. Install the tires (ST205/75R14C or 20.5x8-10E). Torque lug nuts to 95 ft/lbs. Now install the license plate holder and test the lights.



10' / 12' MULTI TRAILER OPTIONS

SuperGlides install.

1. Slide SuperGlides into the siderail extrusions, 4 pieces on the 10' and 4.8 pieces on the 12' (you will have to cut 6 inches off each row).

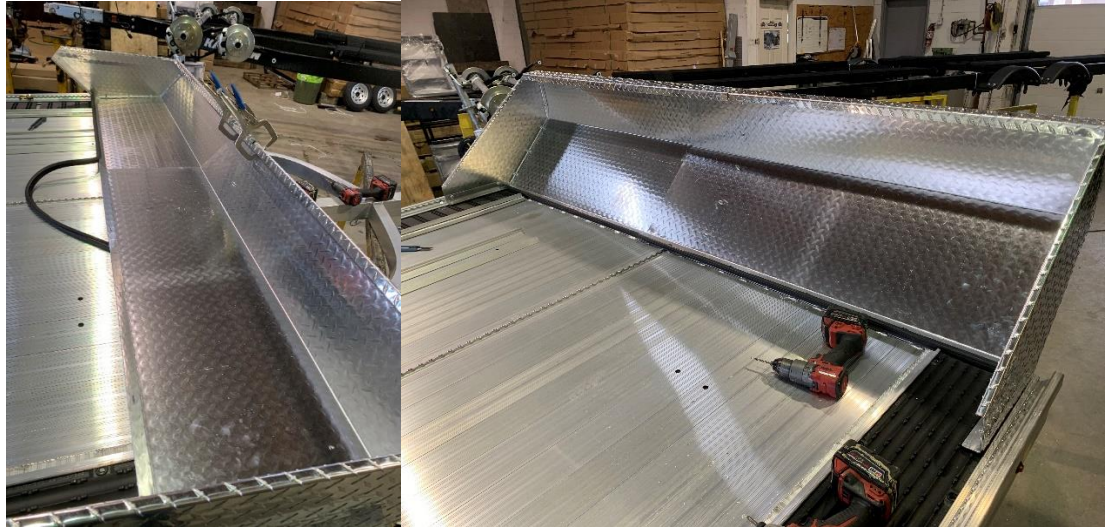


2. Rivet the extrusion down 1" from each end. Then starting at the back of the trailer at 30" then 70", then 110" (143" on the 12 ft) for a total of 5 rivets per length of extrusion. Then rivet the end of the front and rear glide as per picture below, it is not necessary to rivet any of the middle 2 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 two main pieces together then attach the sides. Then bolt on the angle pieces to the bottom of the side as shown in the picture. Then push the rubber seal onto the bottom edge.



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 15 pre-drilled holes to use as guides.



SXS Ramps and Tray

1. The 2 SXS ramp trays bolt on to the tabs under the trailer. The required hardware comes with the trays.

