

MALONE

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TopTier™ Utility Trailer Loadbar Kit

Model: MPG493 TopTier™ - Assembly Instructions

Take a few moments and read through these instructions to familiarize yourself with the step by step assembly process *before you begin turning wrenches.*

Required Tools:

- (2) 9/16" wrenches
- (1) 7/16" wrench
- (1) 3/8" chuckable nutdriver
- (1) variable speed drill
- (1) tape measure
- (1) hammer



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1. The Malone Utility Trailer Loadbar Kit is designed to fit the most common style of utility trailer, with raised angle iron side rails turned outward as shown in this picture. Trailers lacking a raised angle iron rail are not suitable for use with this kit.



2. **IMPORTANT FOR SAFE TRAILERING:** When towing any trailer you always want 10% or more of the total weight of the (trailer + load) to be carried by the hitch ball. A trailer with a properly weighted hitch ball will pull straight behind the tow vehicle. If, as your speed increases, you find the trailer wants to sway back and forth, it's telling you its tongue weight is too light. To eliminate sway, re-arrange your load to shift weight forward onto the hitch ball. Towing a swaying trailer is very dangerous and can pull side to side on the tow vehicle with sufficient force to cause loss of control leading to a jackknife resulting in a crash. So if a sway is ever present, stop and take time to re-arrange more weight forward to eliminate it.

3. **LOAD CAPACITY:** The MPG493 is designed to safely carry up to 250 pounds.

4. We recommend the front loadbar be mounted as far forward as possible and the rear loadbar location vary for spacing.

5. Before starting to mount the kit, check your frame and rails for un-obstructed mounting locations. Look carefully for obstructions that would interfere with mounting the bottom brace plates such as frame cross members, drop gate components, lights, light brackets, fenders, suspension parts, or other obstructions.

6. Assemble all four brackets onto the rails using the V-shaped U-bolts, nuts and washers.

Partially tighten all the U-bolts to remove most of the slack between the bracket and the rail.



7. With the curved top end of each upright turned inward, slide the uprights down into the brackets letting the bottom end rest on the trailer deck as shown.



8. Measure that the uprights are in the same place on both sides of the trailer, then fully tighten all the U-bolts.



9. Assemble the bottom plates as shown using the square U-bolts and nuts, no washers here.

Align the bottom of each plate with the bottom of the frame as shown, and fully tighten the U-bolts.



10. Measure for a final time that all the uprights are equally spaced on both sides of the trailer.

- Check that there are no obstructions behind where you are about to drill.
- Measure that all uprights are vertical.

11. Use the holes in the plates as your drilling guide.

- Use the 3/8" nutdriver.
- Set your variable speed drill to HIGH.
- Apply firm pressure while drilling.
- The screws will thread into the hole they drill. Do not stop the drill until the head seats against the plate. Do not over tighten the screws.

12. Use the hammer to carefully tap the four end plugs into the top ends of the uprights.



13. With the grooved side of the loadbars facing up, slip the loadbar brackets over the loadbars with the mounting holes towards the outside. (as shown).

- Install two small carriage bolts through each bracket. (They trap the loadbars inside the brackets).

- Install the nuts finger tight only, do not tighten yet.



14. Install the loadbar bracket assemblies onto the uprights using the 4 bolts and nuts, no washers. Only hand tighten the bolts.



15. Center the loadbars by measuring that the same length of bar extends past the bracket on each side.

16. With the loadbars centered, gently tighten all loadbar bracket bolts. Do not overtighten. Overtightening will crush the tube or brackets.

17. Go back over and re-check that all nuts and bolts are securely tightened.

Your finished loadbar kit installation should look something like this.



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