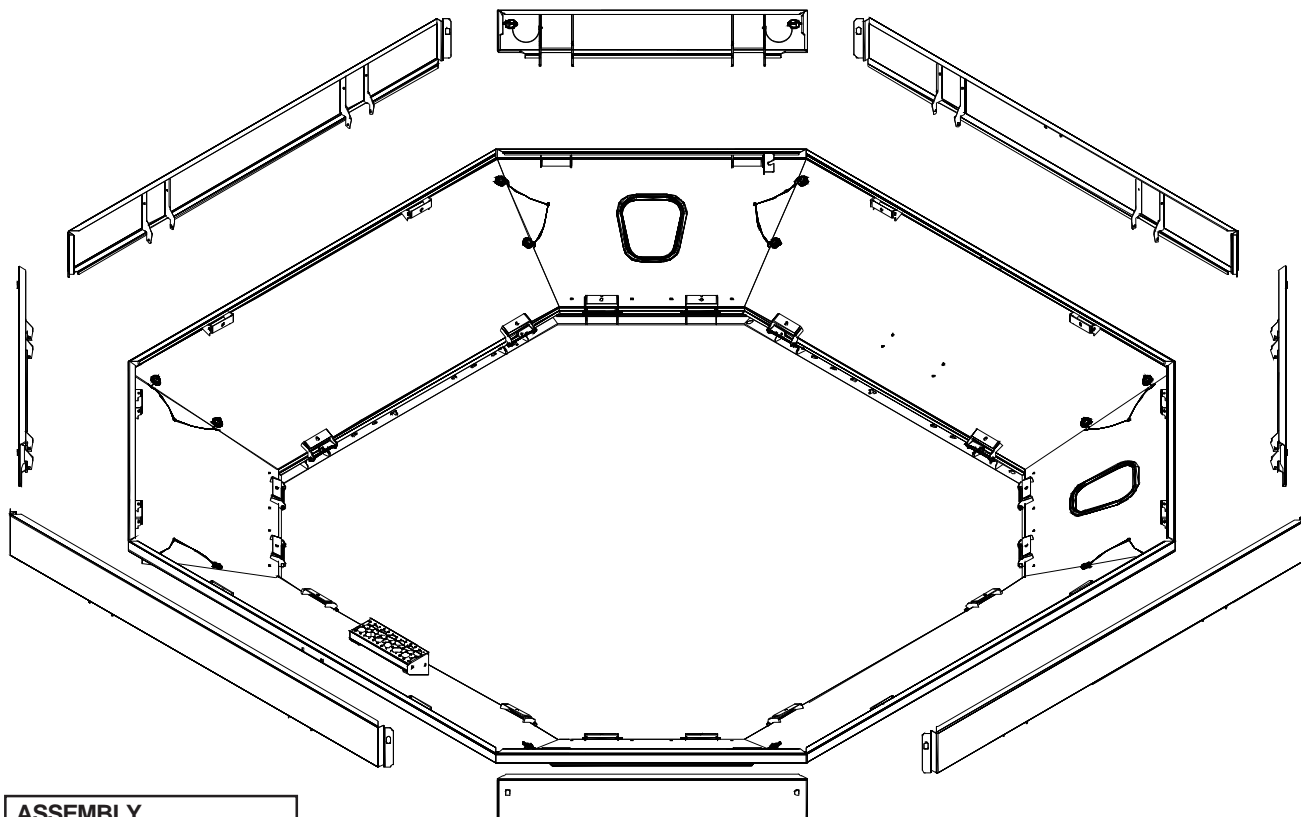




Combine Grain Tank Extension Tip-Up Kit
JOHN DEERE STS SERIES & S-SERIES
OPERATORS / ASSEMBLY MANUAL
FITS: ALL 50, 60, & 70 SERIES STS COMBINES &
MAURER 9E000032 S-SERIES BIN EXTENSION

**PLACE IN COMBINE CAB AFTER ASSEMBLY
FOR FUTURE REFERENCE.**



**ASSEMBLY
OPERATION
REPLACEMENT PARTS**

INTRODUCTION

Thank you for purchasing a Maurer grain tank extension Tip-Up kit. Proper care and use will result in many years of service.



WARNING: TO AVOID PERSONAL INJURY OR DEATH, OBSERVE THE FOLLOWING INSTRUCTIONS:

Ensure that anyone present is clear before applying power to any machinery used in conjunction with a Maurer grain tank extension.

Never allow anyone in or near the grain tank of a combine during loading or unloading of grain. The accumulation of grain is dangerous and can cause entrapment, resulting in serious injury or death by suffocation.

Adding a Maurer Bin Extension or Tip-Up increases the overall height of your combine. Use caution when operating around trees, buildings, power lines, and when approaching bridges and over passes. Pay attention to height restrictions.

Do not exceed advertised maximum capacity of a Maurer grain tank extension.

GENERAL INFORMATION

1. Read assembly instructions carefully. Study assembly procedures and all illustrations before you begin assembly. Note which parts are used in each step. This unit must be assembled in proper sequence or complications will result.
2. When placing a parts order, refer to this manual for proper part numbers and place order by **PART NO. and DESCRIPTION.**
3. Whenever terms "**LEFT**" and "**RIGHT**" are used in this manual it means from a position behind combine and facing forward.

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SAFETY

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH!



**THIS SYMBOL MEANS
ATTENTION
BECOME ALERT
YOUR SAFETY IS INVOLVED!**

SIGNAL WORDS

Note use of following signal words **DANGER**, **WARNING**, and **CAUTION** with safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have questions not answered in this manual, require additional copies, or if your manual is damaged, please contact your dealer or Maurer Manufacturing, P.O. Box 160, 1300 38th Ave. West, Spencer, Iowa 51301, Ph: (712) 262-2992 Fax: (712) 262-1022 www.maurermfg.com



PRODUCT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or you yourself, follow them.

Replace any caution, warning, danger or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Review safety instructions with all users annually.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE OR ASSEMBLE THIS UNIT UNTIL THEY HAVE DEVELOPED A THOROUGH UNDERSTANDING OF SAFETY PRECAUTIONS AND HOW IT WORKS.**

Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice instructions on them.

Never exceed limits of a piece of machinery. If it's ability to do a job, or to do so safely is in question **DON'T TRY IT.**

Addind a Maurer Bin Extension or Tip-Up increases the overall height of your combine. Use caution when operating around trees, buildings, power lines, and when approaching bridges and over passes. Pay attention to height restrictions.

Fold and secure (if needed) the grain tank extension panels when transporting the combine to avoid contact with low power lines and other obstructions.

Use the panel safety step to safely enter and exit the grain tank.

Ensure that any additional bracing and safety equipment have been installed according to this manual. (Some models do not require additional bracing or safety equipment)

Never exceed the maximum advertised capacity of the grain tank extension. By doing so you risk damage to the grain tank extension and combine.

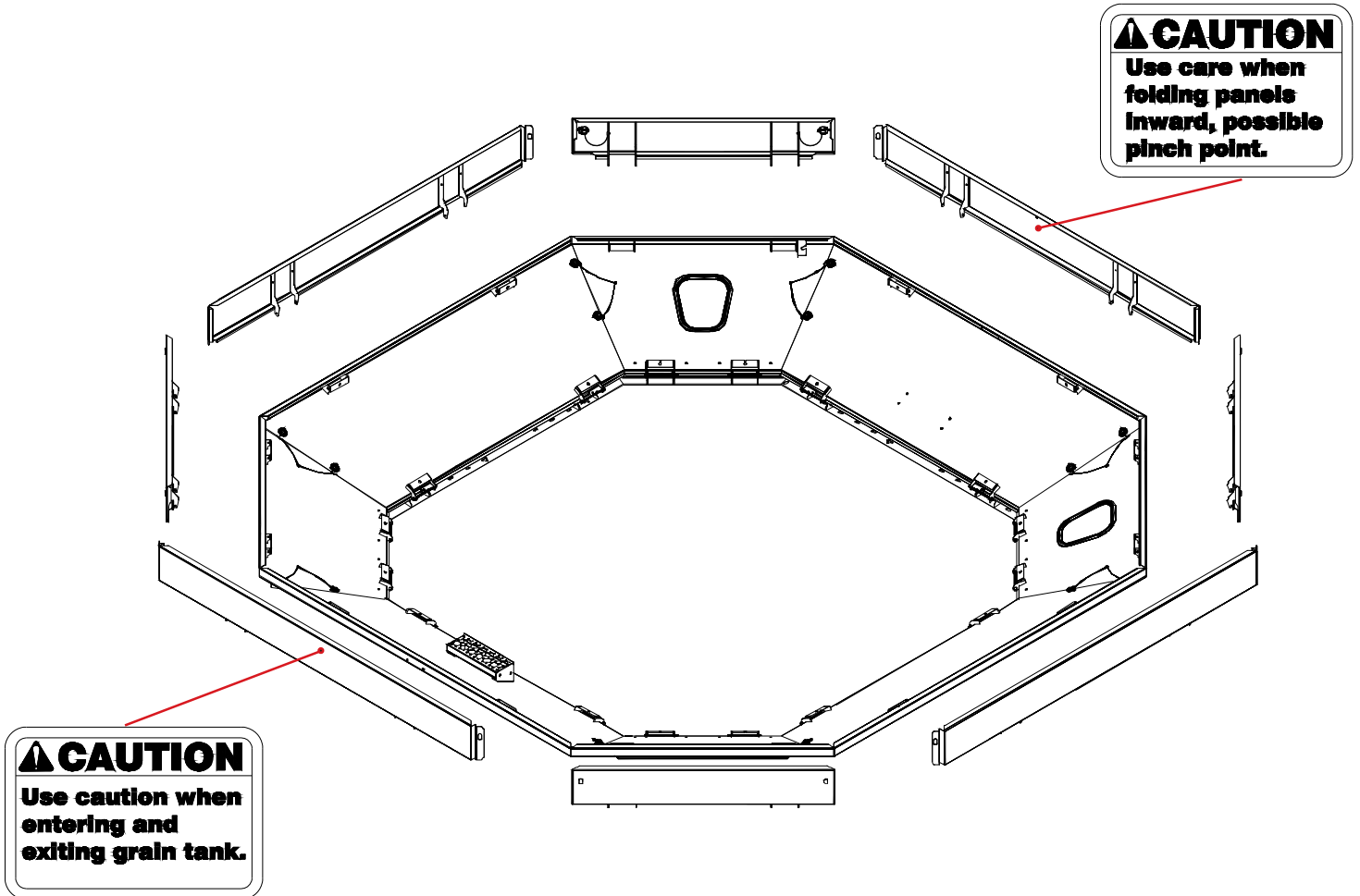
PRODUCT DISCLAIMER

Increasing the grain tank capacity of any combine by use of this product is at the discretion of the owner. Increasing the grain holding capacity of any combine may affect the structural aspects of the combine as well as drive line components and tires. Although Maurer Mfg. has included additional support bracing on selected models, it does not assume liabilities, or make any warranties pertaining to the structural stability or performance of any combine. See the combine owners/operators manual for additional combine specifications and safety information not listed in this manual.



SAFETY SIGN LOCATIONS

Types of safety sign and locations on equipment are shown in illustration below. Good safety requires that you familiarize yourself with various safety signs, type of warning, and area or particular function related to that area, that requires your SAFETY AWARENESS.



SAFETY SIGN CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replacement parts that displayed a safety sign should also display current sign.
- Safety signs are available from the Spencer plant.

Tip-Up Kit Parts Breakdown

John Deere STS Series & S-Series Tip-Up Kit

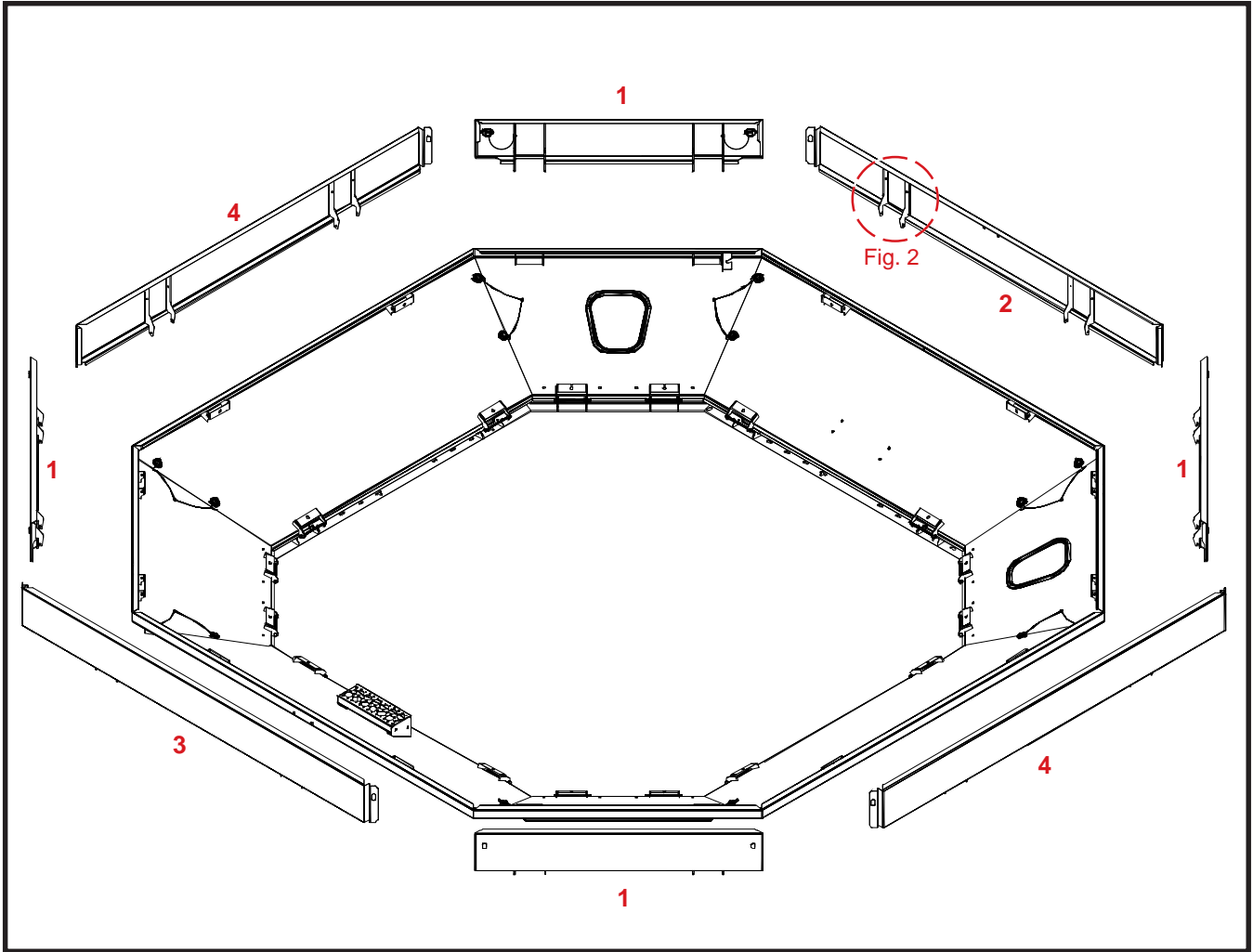


Figure 1

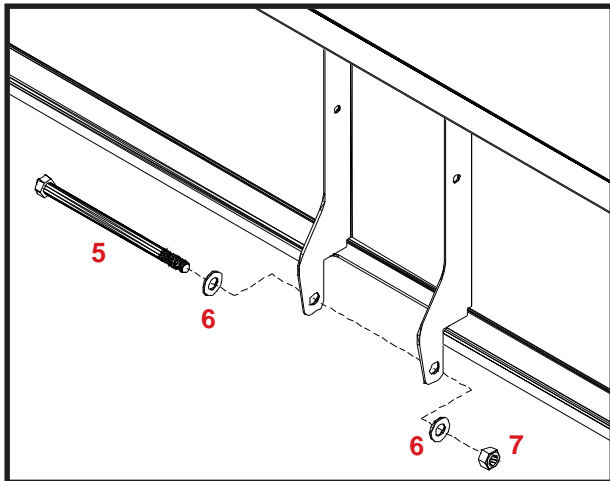


Figure 2

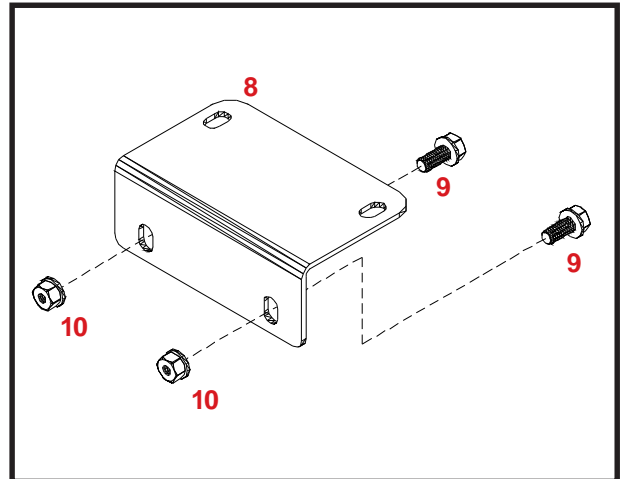


Figure 3

PARTS LIST

Please order replacement parts by **PART NO.** and **DESCRIPTION.**

REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	R5E000002P	4	Tip-Up Corner Panel
2.	R5E000012P	1	Front Tip-Up Panel
3.	R5E000013P	1	Rear Tip-Up Panel
4.	R5E000001P	2	Side Tip-Up Panel
5.	1AFC12FFA05	16	3/8" x 6" Hex Bolt
6.	1AF009E000C	32	3/8" SAE Flat Washer
7.	1AFC18F0000	16	3/8" Nylon Lock Nut
8.	R3E000023P	1	Large GPS Bracket
9.	1AFC37E00L0	2	5/16" x 3/4" Serrated Flange Bolt
10.	1AFC08E0000	2	5/16" Serrated Flange nut
*11.	1AF032D0000	8	Press Rivet
*12.	1AF031DKA00	8	Nylon Lanyard
*13.	1AF034CAA10	8	3/16" x 1-9/16" Lynch Pin
*14.	1AFC37D00H0	2	1/4" x 1/2" Serrated Flange Bolt
*15.	1AFC08D0000	2	1/4" Serrated Flange Nut

* Indicates items not shown in illustrations

PANEL ASSEMBLY

STEP 1:

The base sensor bracket and base light bracket will need to be removed before any Tip-Up panels can be assembled to the base extension.

STEP 2:

Assemble the four corner Tip-Up panels to the base extension corner panels using one 3/8" x 6" hex bolt, two 5/16" washers and one 3/8" nylon lock nut per hinge. See figure 4.

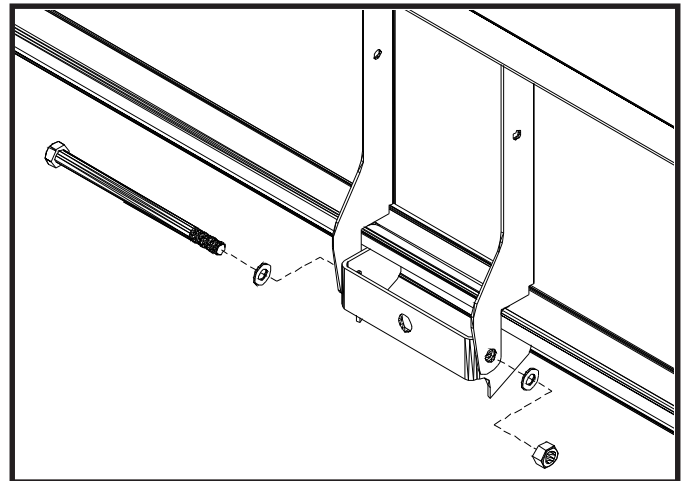


Figure 4

STEP 3:

Fasten the original light bracket to the left front Tip-Up corner panel using one 1/4" x 1/2" serrated flange bolt and one 1/4" serrated flange nut. See figure 5.

NOTE: Corner Tip-Up panels must be assembled first to ensure proper fit.

NOTE: DO NOT over tighten nuts and distort hinge component, but ensure nylon lock nut fully engages bolt threads.

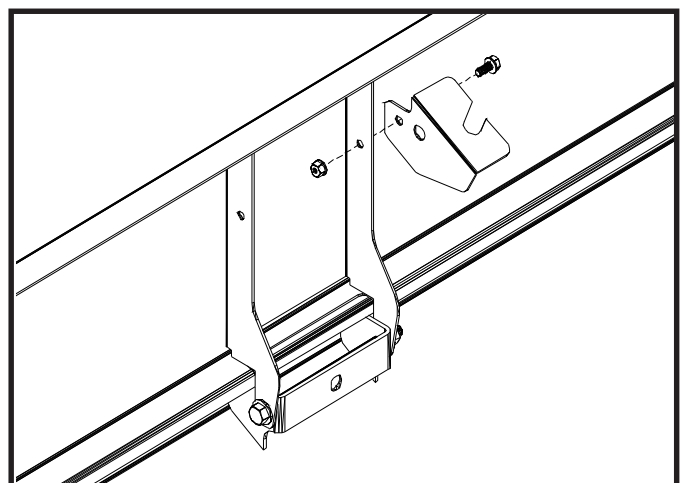


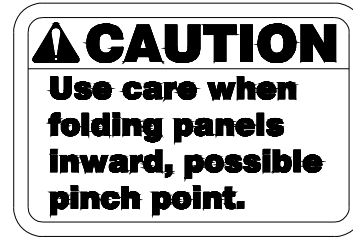
Figure 5



ATTENTION: During assembly ensure the following safety decals are located correctly. See illustration on page 5.



Located on outside of rear panel.



Located on inside of front panel.

STEP 4:

Assemble the front, rear, and side Tip-Up panels to the extension in the same manner as the corner panels using one 3/8" x 6" hex bolt, two 5/16" washers, and one 3/8" nylon lock nut per hinge point.

STEP 5:

Once the front, rear, and side panels have been secured to the extension, fold the panels outward to mate with the four corner panels. Fasten the the joint with one 3/16" lynch pin per joint.

STEP 6:

Align one nylon lanyard with one press rivet and fasten together. Loop and lock the end of the lanyard around the ring of the lynch pin and proceed to pin the panel joint together. See figure 6.

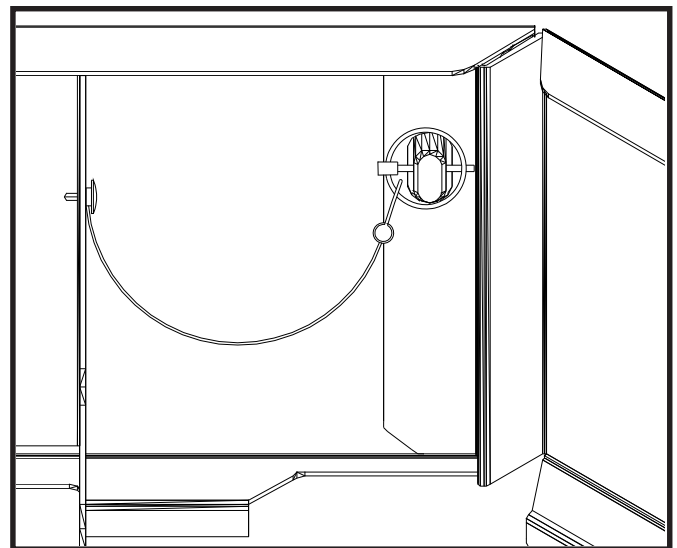


Figure 6

TANK FULL SENSOR

Mount the tank full sensor to the desired Tip-Up panel using one 1/4" x 1/2" serrated flange bolt and one 1/4" serrated flange nut.

GPS BRACKET

Remove the partial cut slugs from the front panel and fasten the provided GPS bracket to the outside of the panel using two 5/16" x 3/4" serrated flange bolts and two serrated flange nuts. See figure 7.

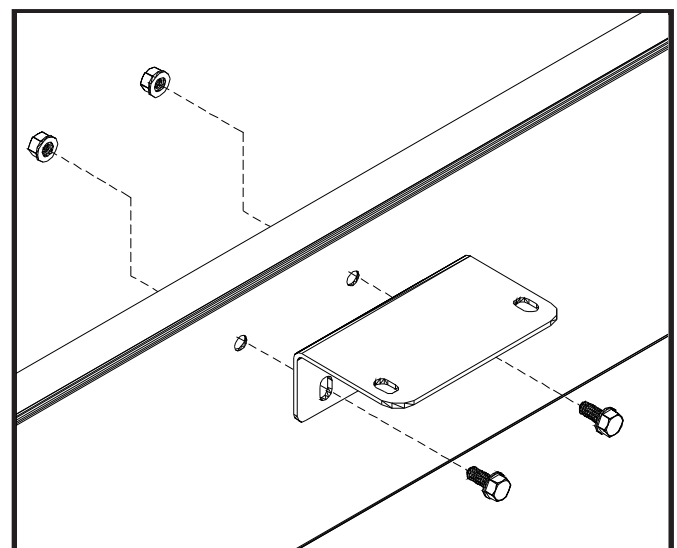


Figure 7