



# INTAKE HOPPER

## STX2/STX/TFX2/WR AUGERS OPERATOR AND ASSEMBLY MANUAL



Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

Part Number: 30702 R5

Revised: Aug/18

This product has been designed and constructed according to general engineering standards<sup>a</sup>. Other local regulations may apply and must be followed by the operator. We strongly recommend that all personnel associated with this equipment be trained in the correct operational and safety procedures required for this product. Periodic reviews of this manual with all employees should be standard practice. For your convenience, we include this sign-off sheet so you can record your periodic reviews.

[illegible]

- a. Standards include organizations such as the American Society of Agricultural and Biological Engineers, American National Standards Institute, Canadian Standards Association, International Organization for Standardization, EN Standards, and/or others.

## New in this Manual

The following changes have been made in this revision of the manual:

Description	Section
New hardware for offset hitch adapter.	Section 2.5.2. "Offset Tow Bar" on page 15



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# 1. Safety

Refer to your auger manual for complete safety instructions.

## 1.1. SAFETY DECALS

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- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal location figures that follow.
- Replaced parts must display the same decal(s) as the original part.
- Replacement safety decals are available **free of charge** from your distributor, dealer, or factory.

### 1.1.1. DECAL INSTALLATION/REPLACEMENT

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1. Decal area must be clean and dry, with a temperature above 50°F (10°C).
2. Decide on the exact position before you remove the backing paper.
3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
5. Small air pockets can be pierced with a pin and smoothed out using the sign backing paper.

### 1.1.2. SAFETY DECAL LOCATIONS AND DETAILS

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Replicas of the safety decals that are attached to the equipment and their messages are shown in the figure(s) that follow. Safe operation of the equipment requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to, as well as the safety precautions that must be taken to avoid serious injury, death, or damage.

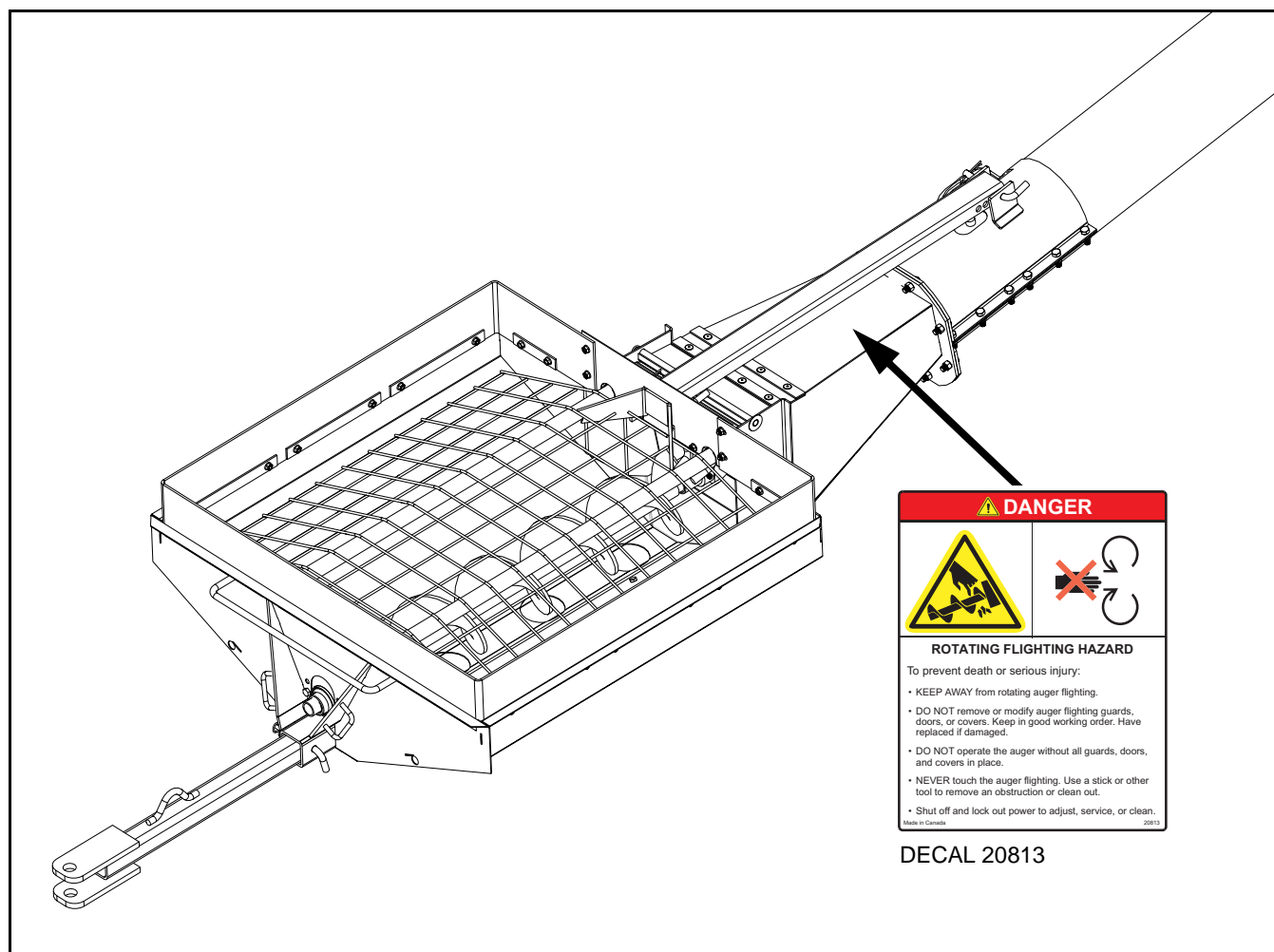


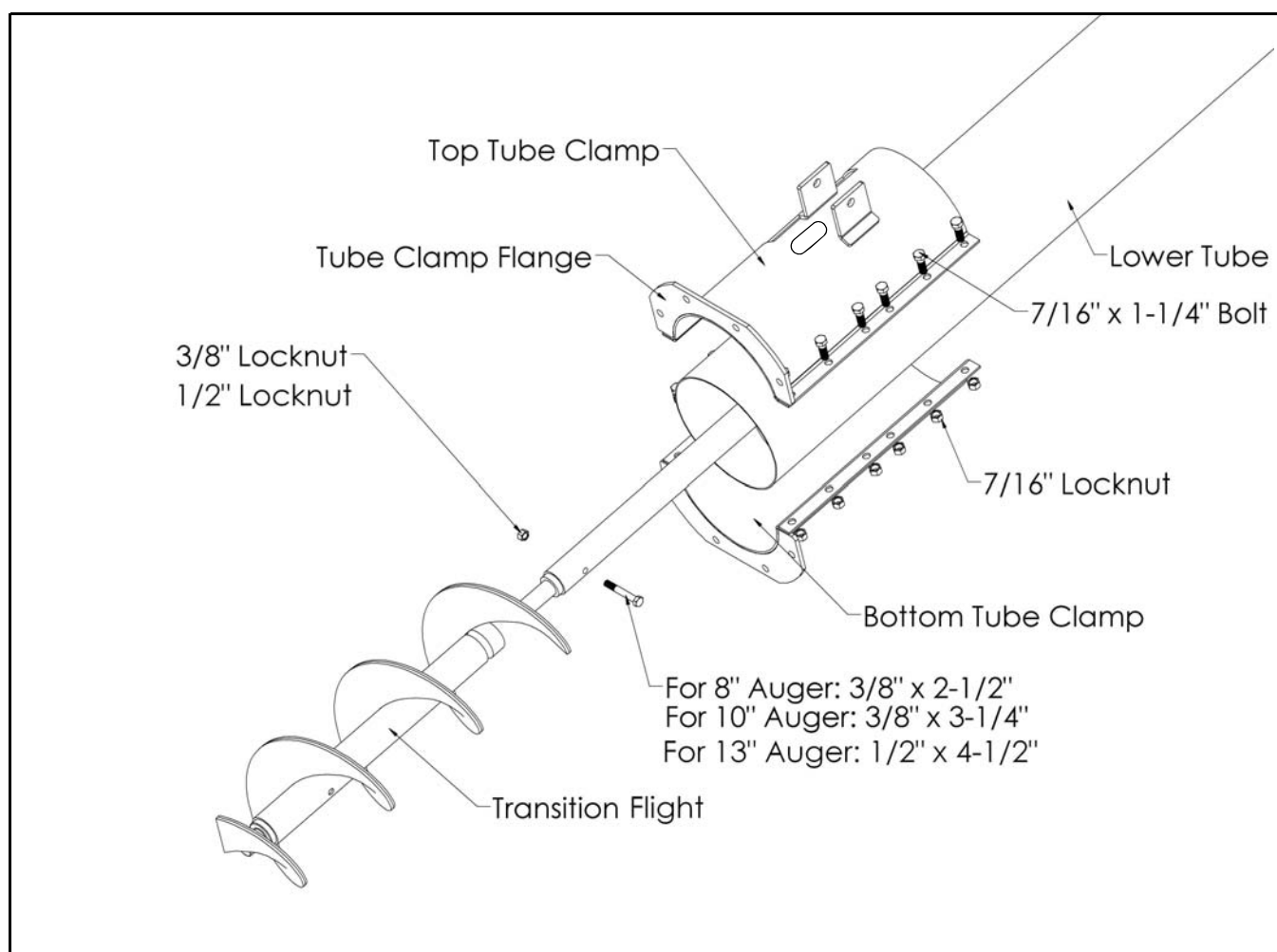
Figure 1.1 Safety Decal Location

## 2. Assembly

**WARNING** Before continuing, ensure you have read and understand the relevant information in the safety section. Safety information is provided to help prevent serious injury, death, or property damage.

**Important:** To make assembly process as convenient as possible, use of a lift crane or some other equipment for lifting the lower tube of the auger is recommended. Support discharge end of auger to prevent upending.

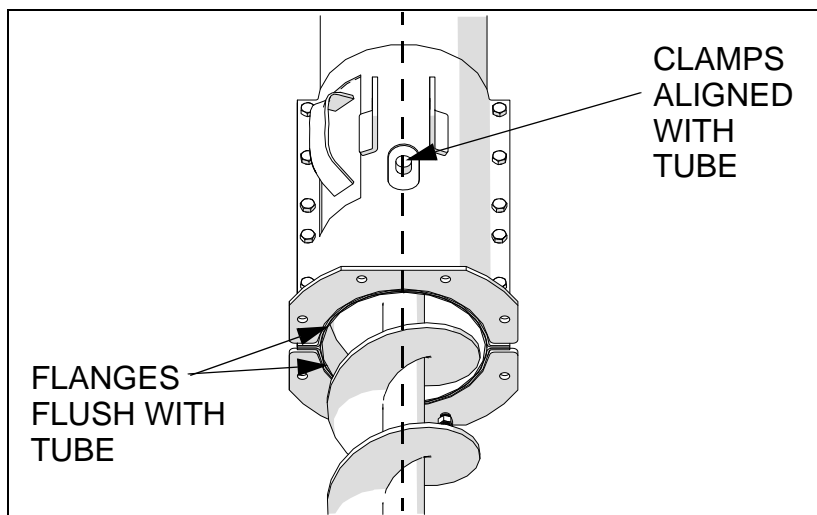
### 2.1. TUBE CLAMPS AND TRANSITION FLIGHT ASSEMBLY



**Figure 2.1 Tube Clamps and Transition Flight Assembly**

- ➡ 1. **For Retrofits:** First remove existing flighting guard and transition flighting.
- 2. Loosely bolt the top and bottom tube clamp on lower tube with twelve 7/16" x 1-1/4" bolts and locknuts.

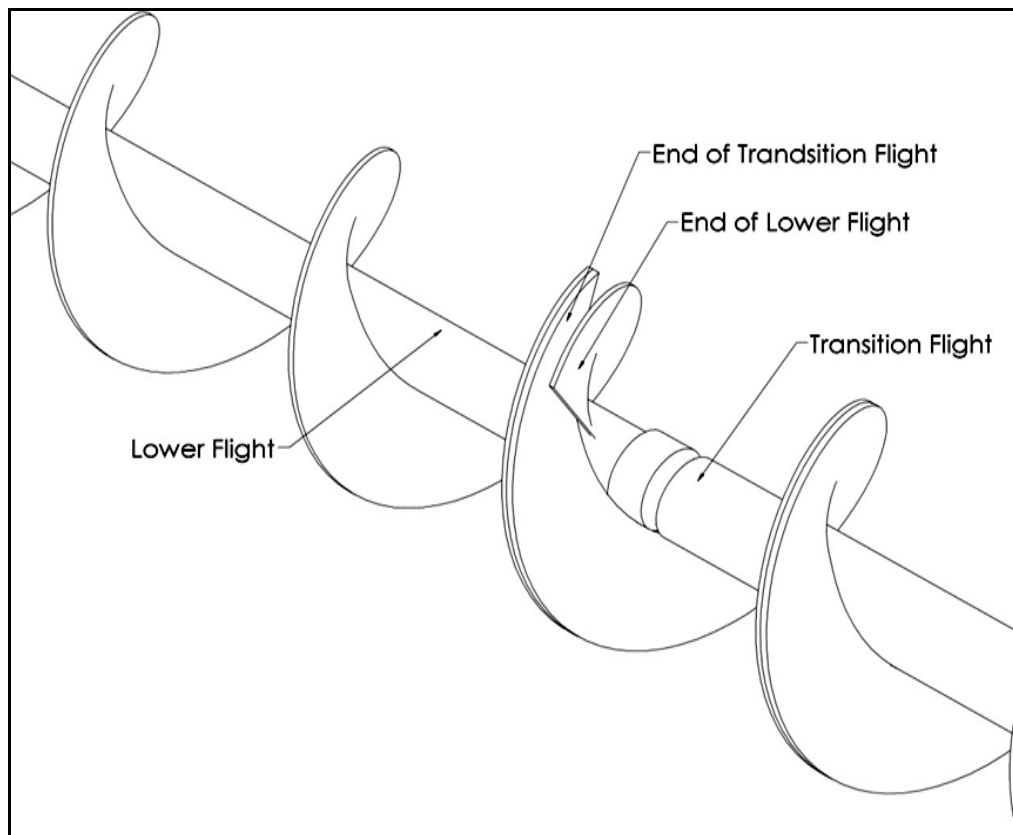
3. Ensure that the tube clamps are aligned straight on the tube, and positioned with flanges flush with the bottom of the tube (see Figure 2.6), then tighten the tube clamps.



**Figure 2.2 Align Tube Clamp**

**Note:** *The top tube clamp has a slot to fit around the handle, which is already welded on the tube.*

4. Slide the transition flight onto the lower flight.
5. For continuous flow, make sure that the ends of the lower flight and the transition flight are butting together (see Figure 2.3).

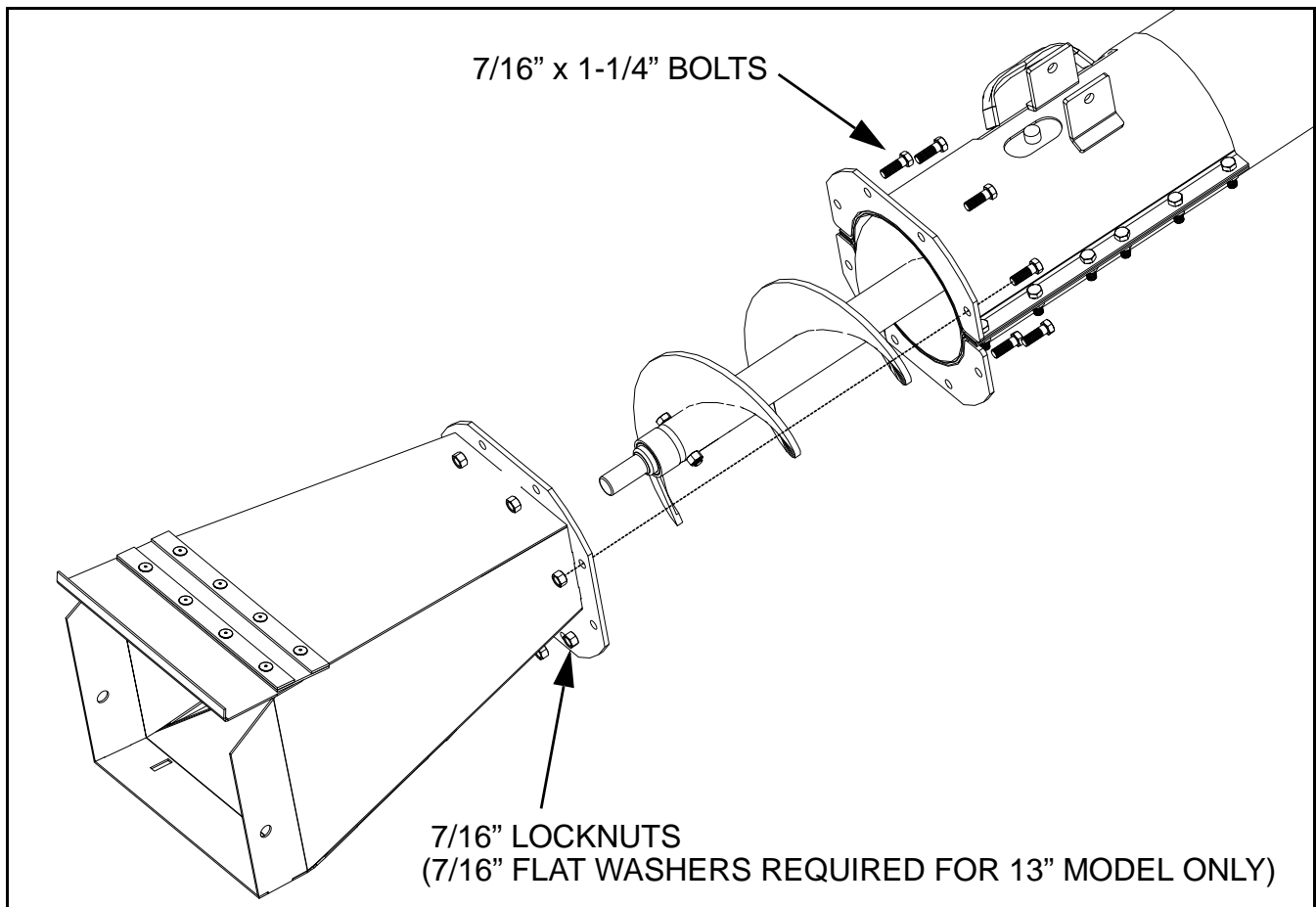


**Figure 2.3 Align Flighting**

6. Rotate the flight to line up the hole on the transition flight with the hole in the lower flight tube.
7. Insert  $\frac{3}{8}$ " x  $2\frac{1}{2}$ " bolt for 8" augers, or  $\frac{3}{8}$ " x  $3\frac{1}{4}$ " bolt for 10" augers,  $\frac{1}{2}$ " x  $4\frac{1}{2}$ " for 13" augers and tighten locknut.

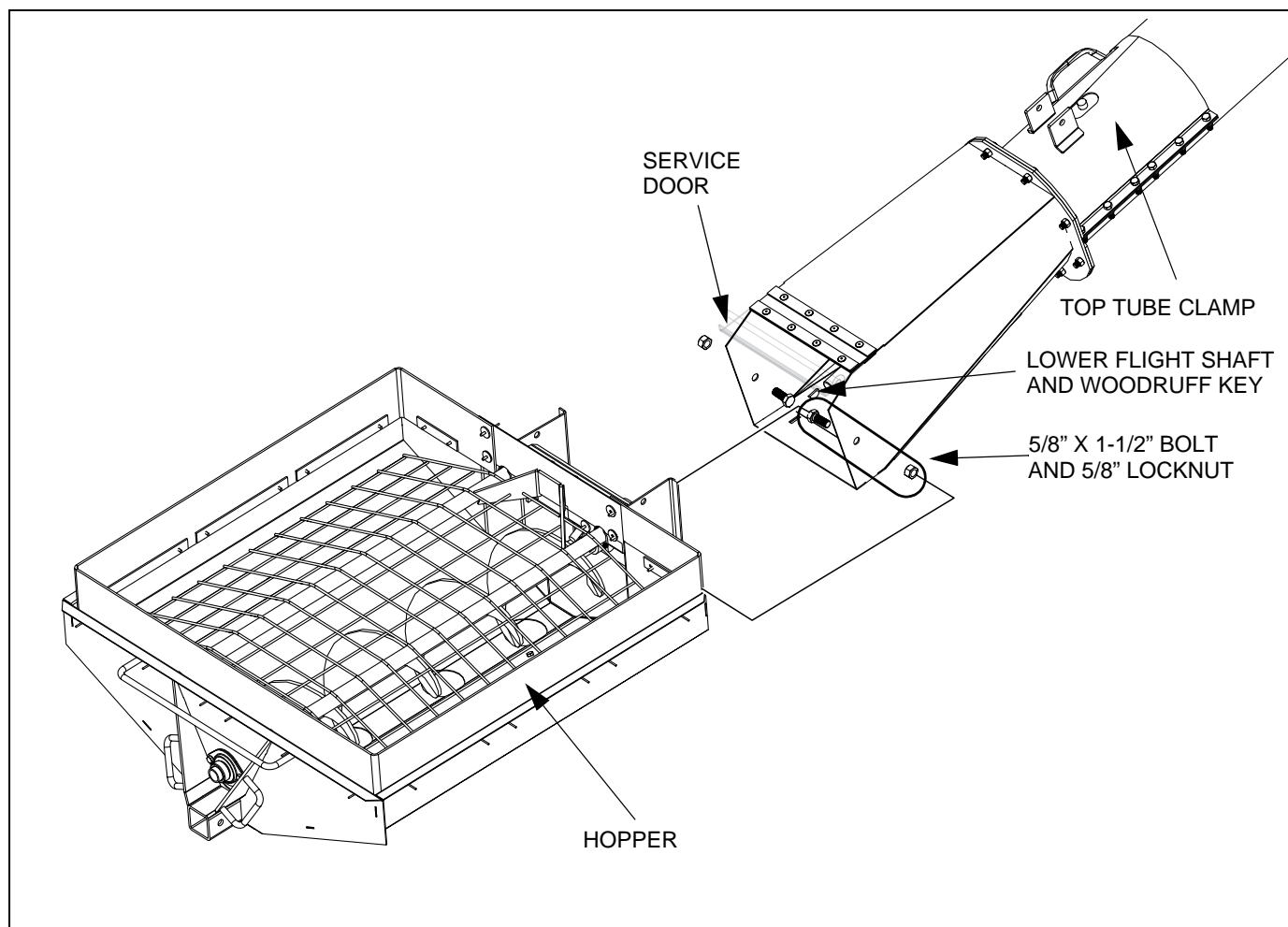
## 2.2. TRANSITION ASSEMBLY

1. Using a lift crane or other lifting equipment, lift lower tube up to a comfortable working height.
2. Bolt the transition to the tube clamps (see Figure 2.4).



**Figure 2.4 Transition Assembly**

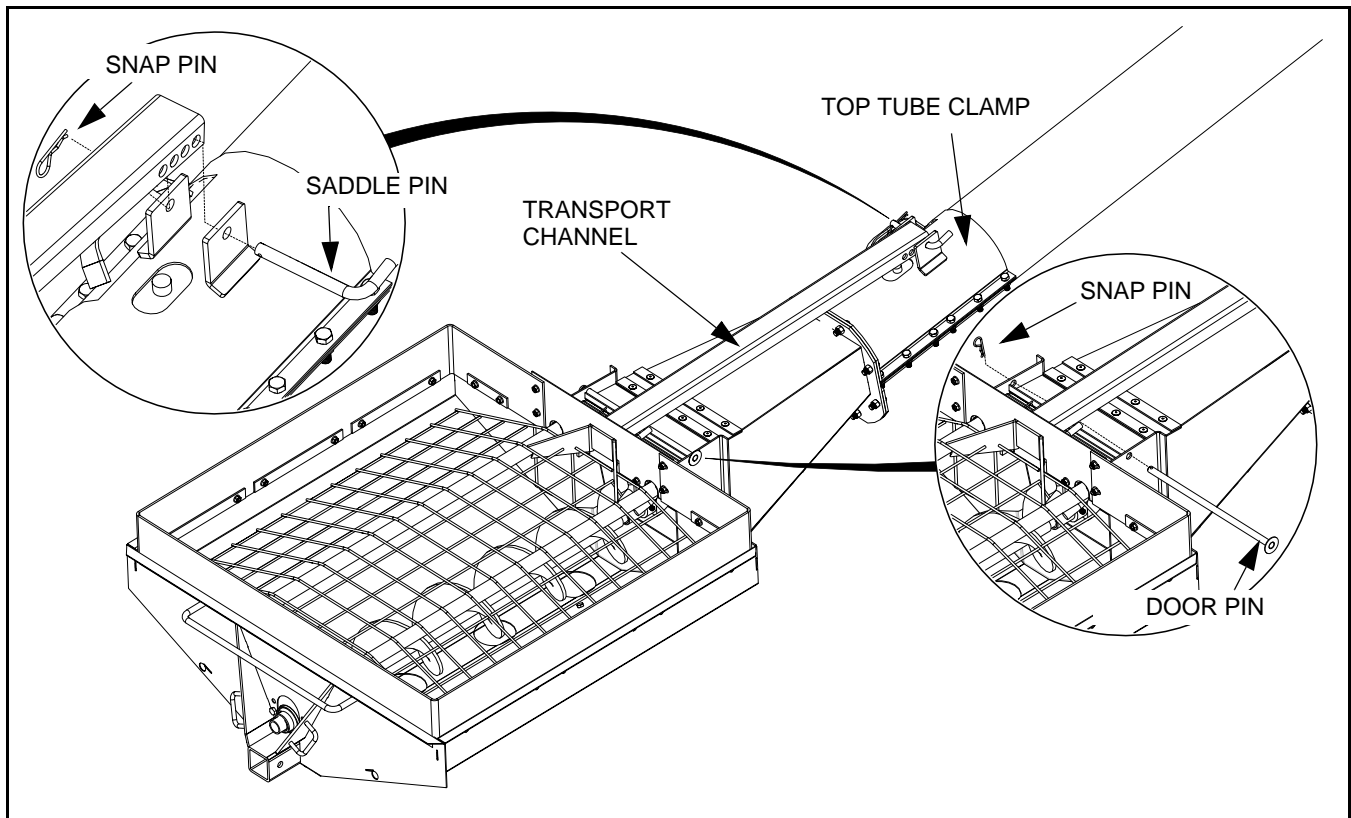
## 2.3. ATTACHING THE HOPPER



**Figure 2.5 Attach Hopper**

1. Clean dirt from inside u-joint on hopper and off of lower flight shaft. Insert woodruff key into lower flight. See Figure 2.5.
2. Open service door on transition, then bring transition and hopper together, guiding flight shaft into the u-joint.
3. Attach transition to the hopper with two 5/8" x 1-1/2" bolts and locknuts. Do not over-tighten. Tighten snug only; these bolts act as pivot points. Use top hole on hopper for 10" auger or bottom hole for 8" auger.
4. Tighten set screws on u-joint, then close and secure the service door with the provided door pin (see Figure 2.6).

## 2.4. TRANSPORT CHANNEL INSTALLATION

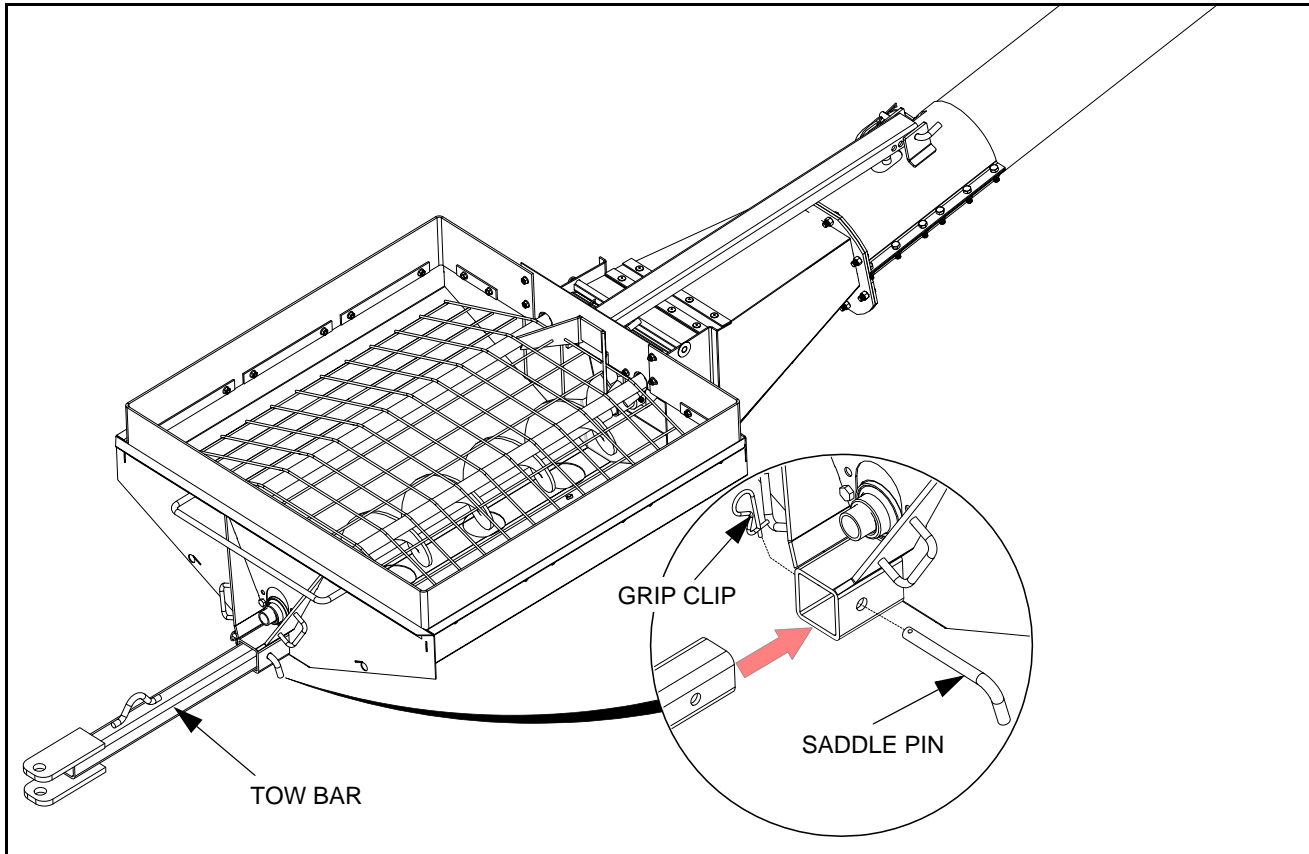


**Figure 2.6 Transport Channel**

1. Attach transport channel to hopper with a saddle pin and secure with snap pin.
2. Attach other end of transport channel (with 4-hole pattern) to top tube clamp on lower tube in a convenient location. Use snap pin to secure saddle pin.

## 2.5. TOW BAR INSTALLATION

### 2.5.1. Tow Bar

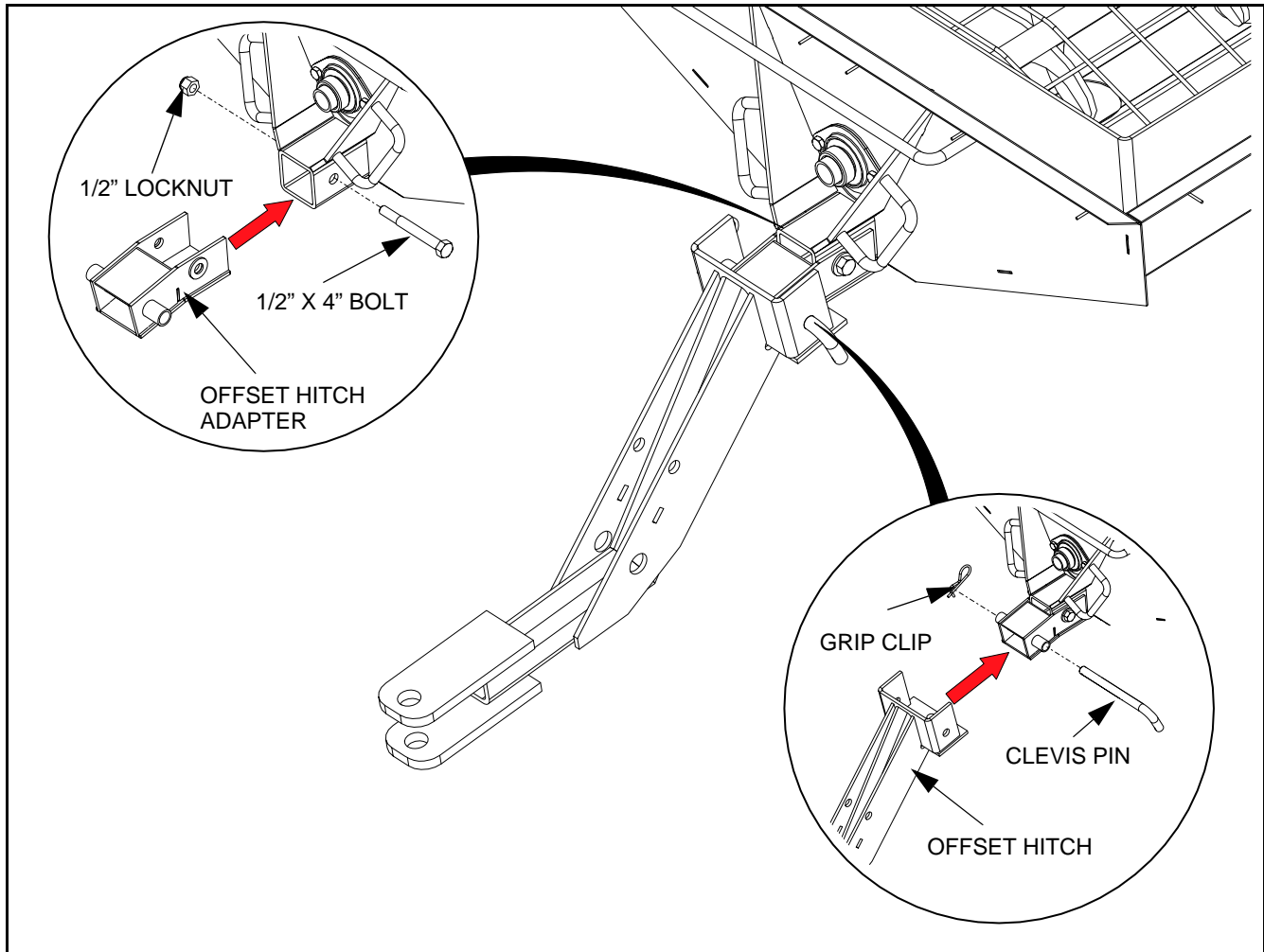


**Figure 2.7 Tow Bar**

1. Slide the tow bar into the hitch tube of hopper and secure with a saddle pin and grip clip.

## 2.5.2. OFFSET TOW BAR

**Note:** The offset tow bar is only installed on augers with an HDSP Kit.



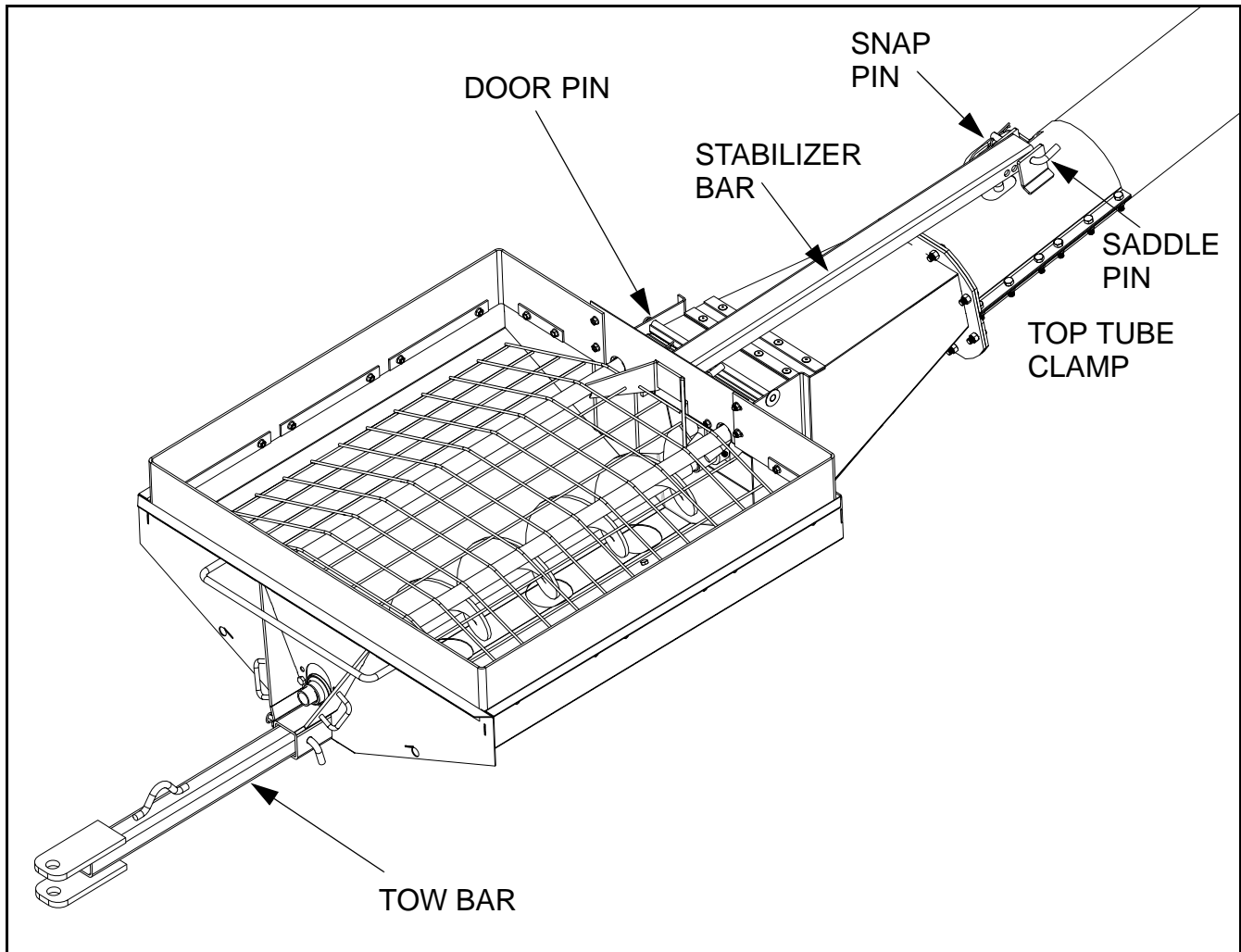
**Figure 2.8 Offset Tow Bar**

1. Attach offset hitch adapter to hopper using one 1/2" x 4" bolt and locknut.
2. Attach offset hitch to offset hitch adapter using a clevis pin (supplied with auger) and secure with a grip clip.



# 3. Operation, Transport, & Maintenance

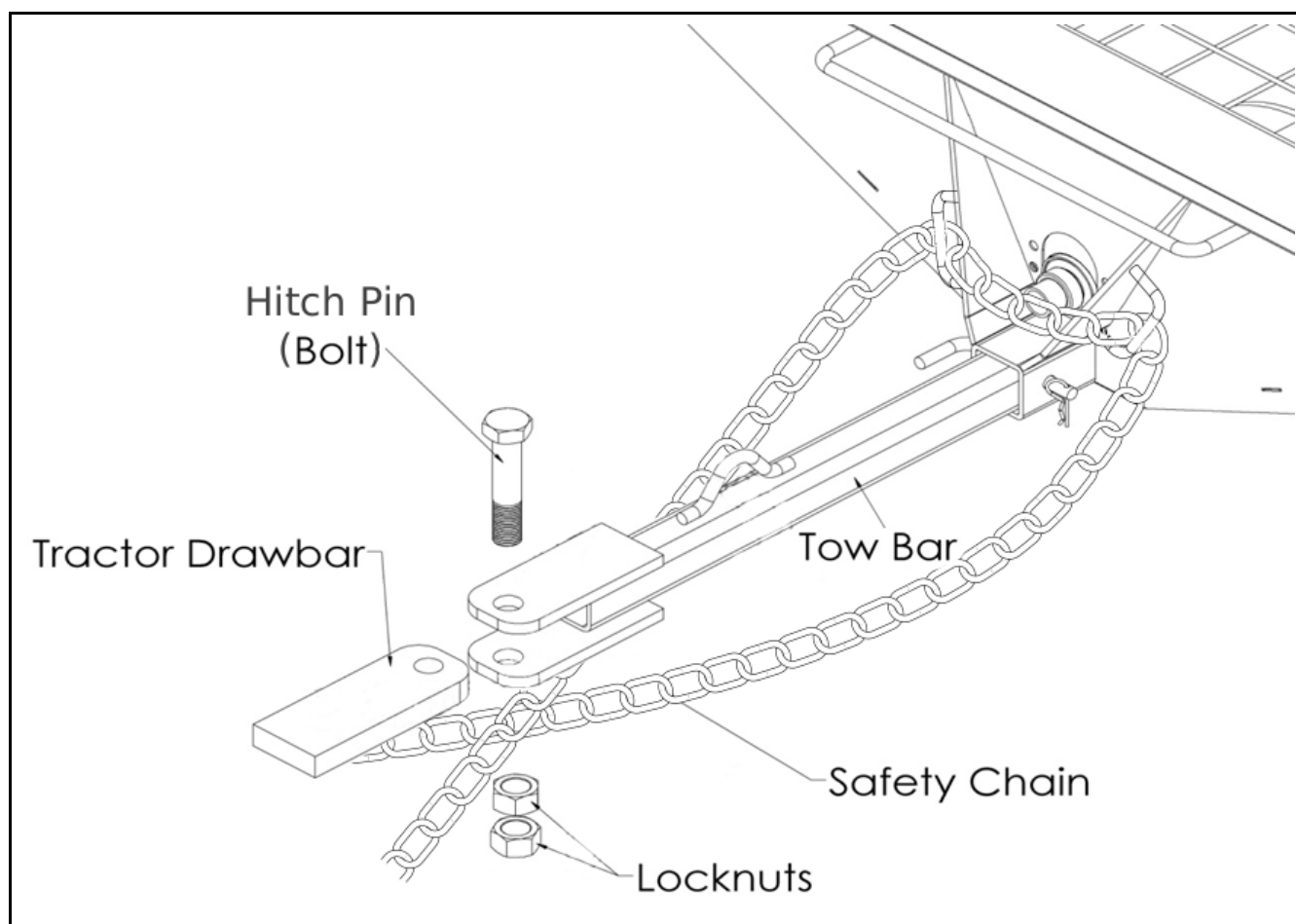
## 3.1. OPERATING PROCEDURE



**Figure 3.1 Intake Hopper**

1. For other auger-related placement instructions, please refer to your auger operation manual.
2. Remove tow bar from hopper. Place auger/hopper in desired location (for example, under a bin hopper). See Placement instructions in auger operator manual.
3. Set the hopper to self-level by disconnecting transport channel at top end.
4. To clean out after use, remove the cleanout cover by removing the four 5/16" nuts holding it in place and use a vacuum or other tool to clean out.

## 3.2. TRANSPORT PROCEDURE



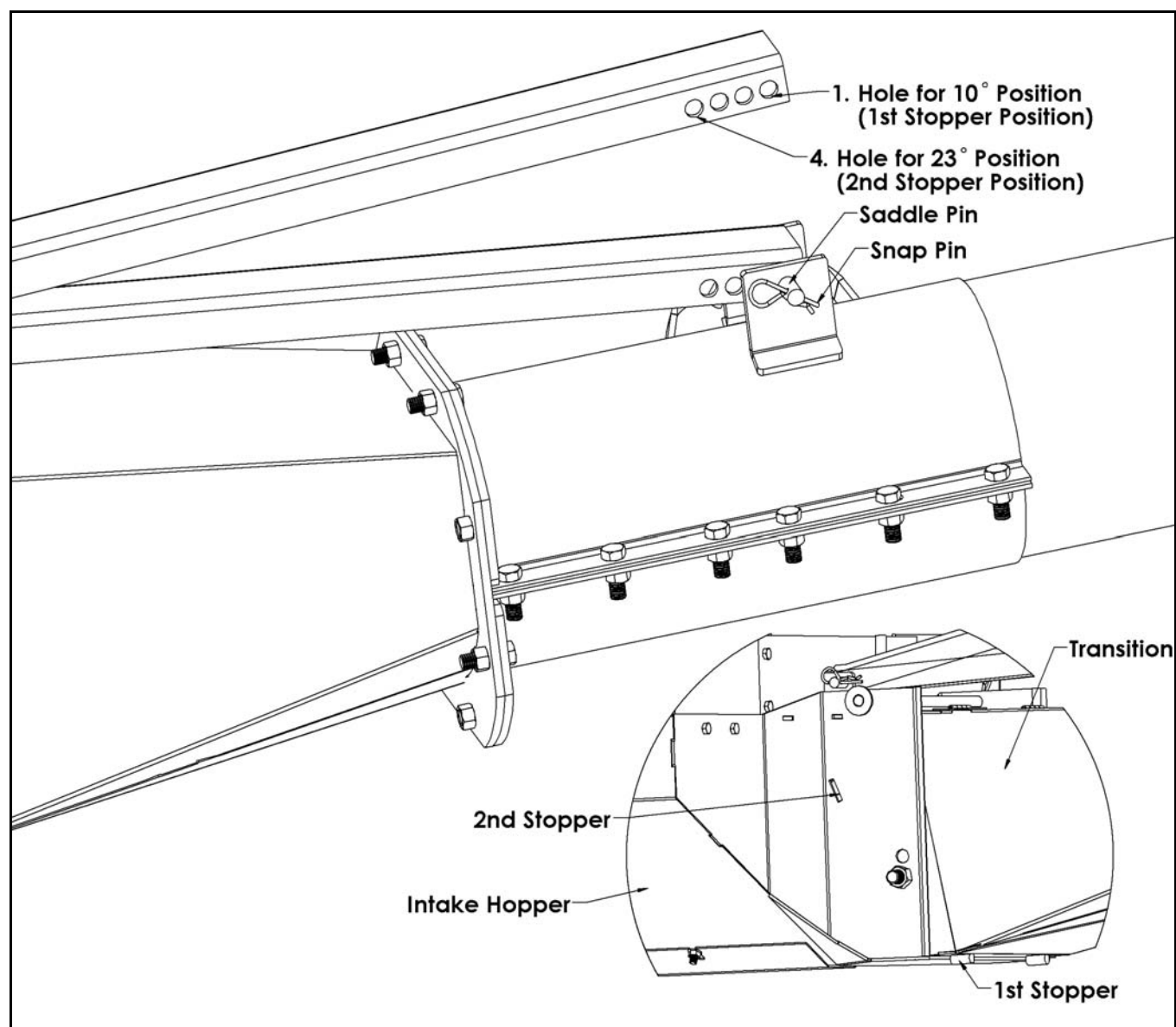
**Figure 3.2 Safety Chain**

**Note:** *Figure shown above is for most intake hoppers. An offset hitch is used for augers with an HDSP Kit.*

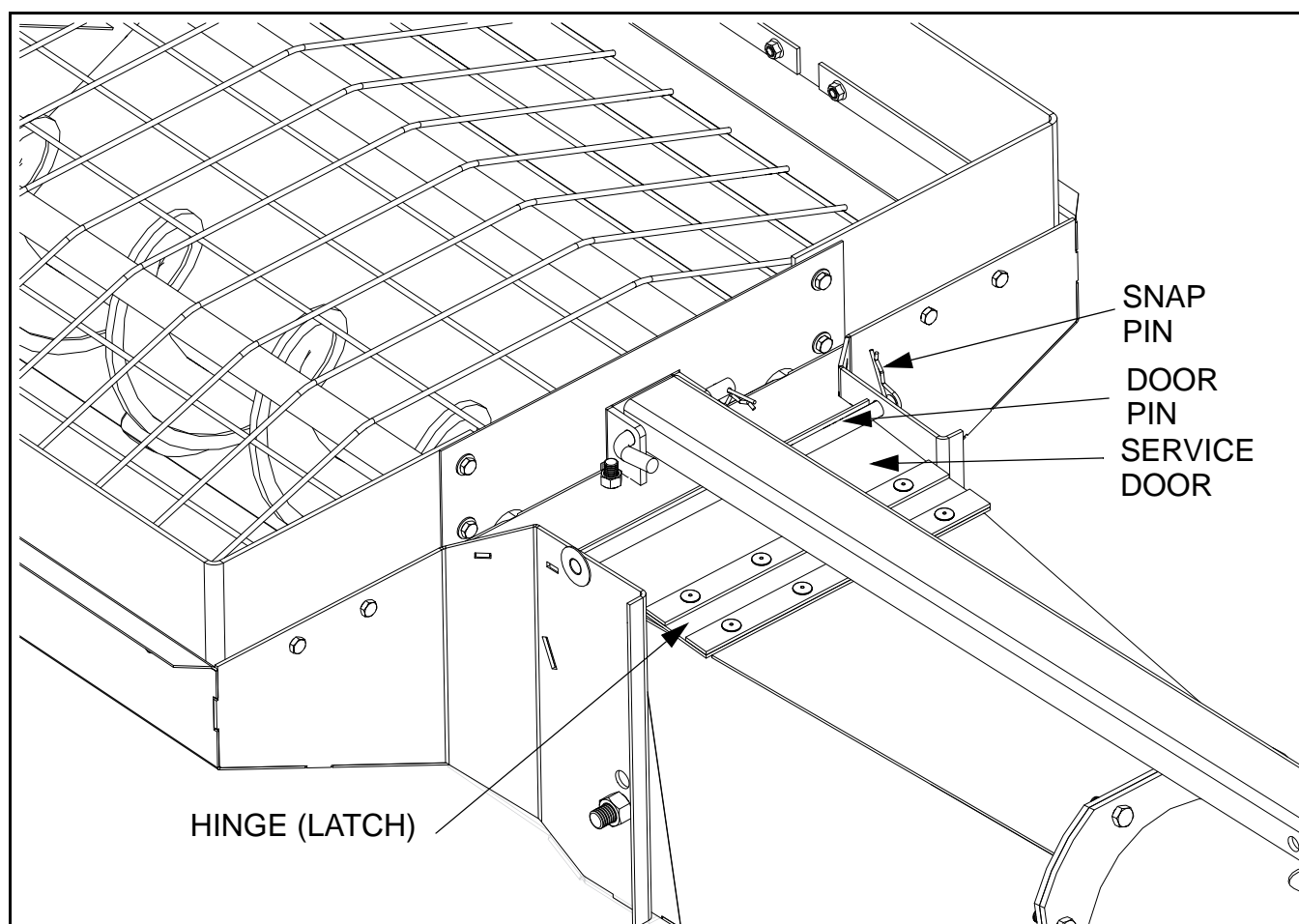
1. Place auger in full down position. The roller track shoe should be seated against the upper track stop with slight tension on the lift cable. Refer to auger operation manual for further instructions.
2. Attach transport channel and tow bar. See steps 2 and 3 under "Transport Channel Installation" on page 13.
3. Place and secure hitch pin and safety chain. The safety chain should be threaded through handle on the lower tube and wrapped around auger tube before attaching to the towing vehicle (Figure 3.2).
4. Connect the stabilizer bar to hole number one and secure with saddle pin and snap pin.

**Important:** *Use a type of hitch pin that will not allow auger to separate from towing vehicle.*

5. Beware of overhead obstructions and electrical wires. These augers have a minimum clearance from 7'6" to 15'6" (2.29 m to 4.72 m).



**Figure 3.3 Connect Stabilizer Bar**



**Figure 3.4 Secure Stabilizer Bar**

**IF MOVING AUGER BETWEEN BINS:**

1. Ensure auger is empty and lower auger until stabilizer bar can be secured in one of the holes with saddle pin and snap pin. Slowly move to only to an adjacent bin. Or alternatively, if it is not possible to lower the auger, lift the hopper and have a second person align and secure the stabilizer bar.
2. If required, re-attach tow bar to auger and move with tractor. Refer to Figure 3.2.
3. Remove tow bar and position auger in desired location.
4. Disconnect stabilizer bar at top end and place saddle pin back through hole and secure with hairpin.

## 3.3. MAINTENANCE PROCEDURES

- Frequently, or every eight hours of operation, open service door and grease bushing the u-joint. Close door.

# WARRANTY

Westfield Industries Ltd. warrants products of its manufacture against defects in materials or workmanship under normal and reasonable use for a period of one year after date of delivery to the original purchaser.

Our obligation under this warranty is limited to repairing, replacing, or refunding defective part or parts which shall be returned to a distributor or a dealer of our Company, or to our factory, with transportation charges prepaid. This warranty does not obligate Westfield Industries Ltd. to bear the cost of labor in replacing defective parts. Any defects must be reported to the Company before the end of the one year period.

This warranty shall not apply to equipment which has been altered, improperly assembled, improperly maintained, or improperly repaired so as to adversely affect its performance. Westfield Industries Ltd. makes no express warranty of any character with respect to parts not of its manufacture.

The foregoing is in lieu of all other warranties, expressed or implied, including any warranties that extend beyond the description of the product, and the IMPLIED WARRANTY of MERCHANTABILITY is expressly excluded.

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