Installation Instructions for 661 and 861 Mounting Kit

⚠ WARNING Improper installation of this component creates a substantial safety hazard including the risk of accident or property damage from a lost tank.

Overview

The mounting brackets you are about to install is designed to significantly shorten installation time for Elston traction sanders and provide many years of service. As you install these brackets, pay special attention to preventing corrosion.
The purpose of these instructions is to aid you in mounting a fully functional sander that is safe and secure under both normal condition and, as much as possible, during an accident. However these instructions are not a substitute for personal knowledge and experience. Throughout this guide, the word "must" is used for any instruction that if not followed would create a safety hazard . An instruction with the word "should" is necessary either for the proper functioning of the product or improves the long-term safe operation of the product. If you are unable to follow any instructions with the words "must" or "should", please contact us to discuss how your installation can still be completed in a way that is functional, safe, and compliant. Finally, an instruction that recommends indicates an instruction designed to maximize the working life of the product, simplify installation, or improve the appearance of the installed product.

Unpacking the Sander and Gathering Supplies

Parts Needed for Installation shipped with Sanders:

- Set of traction sanders – one each of right hand and left hand sanders
- Set of mounting brackets including hardware
  - 4 angle brackets – 2 left and 2 right
  - 4 top adjustment bars
  - 4 bottom adjustment bars
  - 8 clamp blocks
  - 12 - 3/8" UNC x 2" Grade 5 Hex Head Bolts
  - 12 - 3/8" UNC x 1 1/4" Grade 5 Hex Head Bolts
  - 28 - 3/8" Flat Washer
  - 28 – 3/8" UNC Grade 5 Nylock Hex Nut

Additional parts required:

- Corrosion preventive spray for coating threads and mating surfaces (recommended)

Installation of the Brackets

The first step is to determine the approximate mounting locations of the sander on the frame in front of the drive wheels. The sander including the mounting brackets must be 4" or more from the tire throughout the suspension travel to allow clearance for chains. It is recommended that the sander be installed 4 to 6 inches in front of the tires for fast flow

of grit to the tire. If existing items mounted to the frame interfere, the sander may be installed up to 12” away. The distance of the sanders from the frame is set by the grit outlets on the bottom of the unit. The bracket has prepunched holes at the typical mounting distance for the sander. The center between those outlets should be between the tires with the outside edge of the sander no further from the frame than the outside edge of the tire tread of the outside tire. The tank should be installed with the sight glass or level sensor on the side of the sander opposite the tire if these optional accessories are present. However, tanks with a sight glass may be installed with the sight glass facing the tire if it provides better visual access to check the grit level on a S-N661 or S-N861. (Tanks with a level sensor should always be installed so that the level sensor is on the side of the sander opposite the tire to prevent damage to the wiring.)
Once you've determined the approximate mounting location you are ready to mount the brackets.

1. Loosely attach a top adjustment bracket to each angle bracket with a pair of 1 1/4” bolts as shown in Illustration 1. Loosely attach a clamp bracket to each of the bottom adjustment brackets as shown in the parts list. Use a washer between each nut and obround slot.

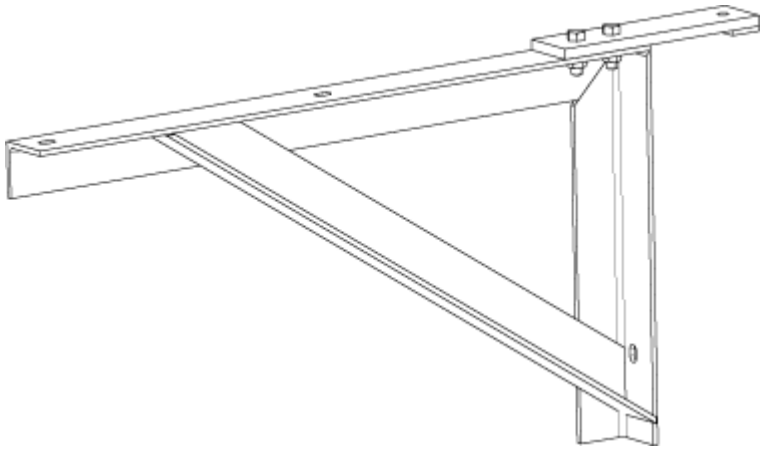

Illustration 1: Angle with Top adjustment Bracket

2. Place the appropriate mounting bracket that goes closest to the tire at the mounting location you determined. The flanges should point toward the tires and are vertical in the side against the sanders when the correct bracket is in place.
3. Adjust the top adjustment bracket so that the top flange of the vehicle frame is lightly clamped between the angle bracket and the lip on the adjustment bracket (a clearance fit). You must NOT clamp it so tight that the bottom of the angle bracket is held more than a small distance away from the bottom of the frame channel to avoid dangerous additional stress in the bracket when the bottom is later clamped against the frame. See below for an example.

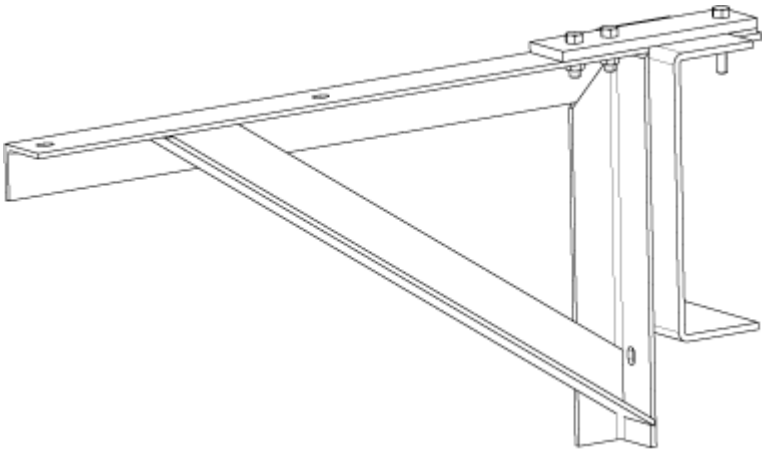

Illustration 2: Top Half Clamped

4. Add the clamp bracket with 2” bolts to hold it in place. Avoid excessive torque to avoid damage to edge of the flange on the truck frame.
5. Loosely attach the bottom adjustment bracket (with clamp plate already attached) in place with 2” bolt. Adjust the angle bracket so that it is square to the frame and alternately tighten each of the bolts until the bracket is clamped in place. The bolt between the angle bracket and the bottom adjustment bracket should be tightened to 150 in-lb (12.5 ft-lb). Reduce the torque 10% if the threads are not dry such as from a corrosion preventative seal or thread locking compound. Additional torque may significantly reduce the life of the mounting bracket and cause it to crack and fail. It should appear as illustrated below if it is the bracket for the right side of the tank. .

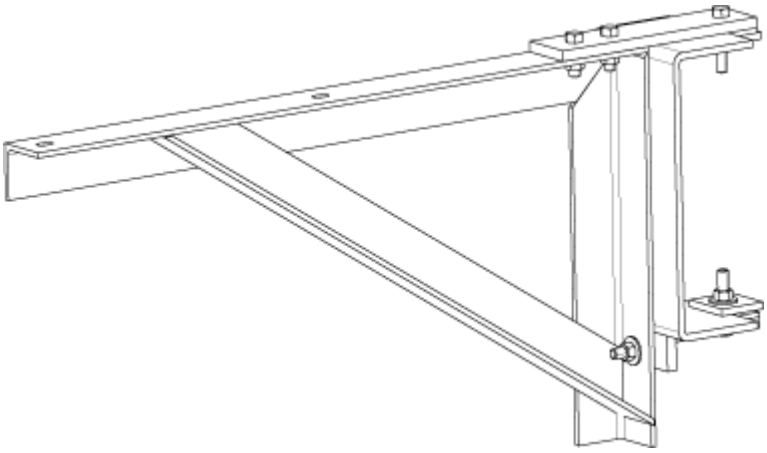

Illustration 3: Right Side Complete

6. Repeat steps 2 through 5 for the next bracket on that side. Set the distance to the spacing by the hole spacing of the mounting holes on the sander. Use any play in the mounting brackets to keep the brackets close to the sides of the sander.
7. Repeat steps 2 through 6 for the brackets on the other side of the vehicle.

Now that the brackets are installed please refer to the installation instructions with the sander to complete the process.