



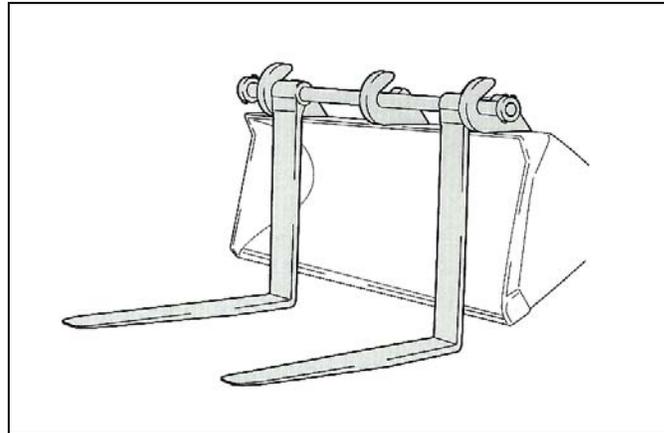
Phone 817-485-6073
Fax 817-428-6008
USA & CANADA Toll Free 800-541-1797
www.starindustries.com

May 24, 2011

4101 Garland Drive
Fort Worth, TX 76117-1706

Installation and Use of Star Over-the-Bucket Forks

Read entire manual before use



Installation:

Before use, the three universal fit “Weld-On Brackets” must be installed. In preparation, roll the loader bucket forward so the bottom leading edge and the top front edge of the bucket are in vertical alignment. The bucket cutting edge should be close to the floor. Measure the vertical bucket opening. Then measure the back of the forks from the bottom of the fork to the center of the collar. The fork back dimension should be at least 6" greater than the bucket opening. If this dimension is less, then forks with taller backs are required.

Set the forks on the floor spaced about 4 feet apart with the fork backs contacting the top front edge and bottom leading edge of the bucket. The forks should be roughly centered in front of the bucket. Remove one end-collar from the fork shaft and slide the shaft into the fork collars positioning the shaft so it is centered on the bucket. The shaft collar should then be replaced.

Position one bracket in the center of the bucket if possible. In some cases a center hydraulic cylinder will prevent this and the bracket will have to be set to one side or the other - this is acceptable but the bracket should be kept as close to the center as practical. The other two brackets should be positioned a few inches inside the shaft collars to make it easy to engage the shaft to install the forks. Position the brackets on top of the bucket so that the shaft fits into the forward end of the slot in the brackets and square the brackets to the bucket. It may be necessary to raise or lower the bucket vertically so the shaft aligns properly in the bracket. The bottom of the forks must hang down below the bottom cutting edge. This may be only one or two or may be several inches depending on the bucket opening.

The brackets are a universal fit bracket and depending on how the top of the bucket is designed they may hang off the back a good distance. The back portion can be cut off with a torch or left in tact so that the tail provides a convenient hook point for straps, chains, or slings. The brackets can also be notched to set down over the top of the bucket if desired, but be sure to keep brackets level and the shaft slots aligned.

The brackets should be welded into position by a qualified welder using proper welding procedures. Remove paint from weld area and tack brackets into position into position. Weld in a flat position if possible (if not weld up hill) using a 7018 rod or E70 series wire. Welds should be continuous around where the bracket contacts bucket top. Three passes are recommended resulting in a minimum of a ½" fillet.

The forks can now be removed or installed from the operator’s seat simply by rolling the bucket forward to engage or disengage the bar from the brackets. The forks are free standing in an upright position with the shaft installed when they are off the loader.

Rated Load Capacities:

The rated load capacities for Star Over-the-Bucket Fork assemblies as shown in the chart below are based on a 24" load center and are for the pair. Be aware that these capacity ratings are for the fork assemblies only and do not in any way reflect the safe lift capacity of the loader when equipped with the forks. Furthermore, be aware that when using the forks, the load center is moved farther out and consequently the lift capacity of the loader is diminished significantly. Caution should be taken not too exceed the lift capabilities of the loader. Consult with the loader manufacturer to determine revised load capacities for the specific loader make and model when using over-the-bucket forks.

Model	Fork Size	Rated Load Capacity
LBA 170	1.5" thick X 4" wide X 42" Long	5,500 lbs per pair @ 24" Load Center
LBA 180	1.75" thick X 4" wide X 48" Long	6,900 lbs per pair @ 24" Load Center

Safety Precautions:

- ◆ When Loader is idle with forks installed always lower forks to ground.
- ◆ Never allow personnel to stand under forks or in an area where material falling from forks could be a hazard.
- ◆ Be careful not to exceed lift capabilities of loader – load capacity with forks is significantly less than with the bucket because the load center is moved out when using the forks.
- ◆ Always carry load low.
- ◆ Watch to make sure load stays intact when elevating or transporting.
- ◆ Never pick up load with the tips of the forks.
- ◆ Before use check to make sure the shaft retaining collars are properly secured.
- ◆ Review loader operator’s manual and observe any additional required safety requirements and/or restrictions when using over-the bucket forks.
- ◆ Observe all relative federal, state, local, and company safety standards.

Star Industries Limited Warranty

Star Products are warranted to the original purchaser against defective workmanship and/or materials (when properly installed, used, and maintained) for a period as specified below from date of delivery to the customer by an authorized Star Dealer or direct from Star Industries. This warranty does not cover misuse, abuse, normal wear and tear, or accidental damage.

- 5 year Warranty: All Star products except as noted below
- 2 year Warranty: Medium Duty Auger Drives
- 1 year Warranty: Auger Bits and Auger Accessories (excludes auger drives), Crane Forks, Grapples, 4 In 1 Buckets, Angle Broom, Mad Beaver Brush Cutters, Big Mouth Tree Shears, Self Dumping Hoppers, Replacement Forks, and Over the Bucket Forks
- 6 months Warranty: Concrete Mixers

WARRANTY CLAIM NOTIFICATION: Product defects should be reported to the Star dealer from whom the product was purchased or to Star Industries in writing promptly after discovery. Preferably photographs showing the defect should also be provided along with a written report of circumstances involved. Warranty claims not made within 30 days after discovery of the defect shall be null and void.

WARRANTY DETERMINATION: If a warranty claim is found worthy and made within the warranty period we reserve the right at our discretion to repair existing defects or to replace it with the same or current model free of charge or to issue a credit for the reasonable cost of repair or take possession of the equipment and issue reimbursement for the calculated value.

WARRANTY PROCEDURE: Upon notification, Star Industries will determine if the product will need to be returned to Star Industries for inspection or repair or if the Star dealer or other entity can be authorized to make the repair at his location or if circumstances dictate other solutions. Dealer or other entity repairs must have prior written authorization. Reimbursement will be at the current “Star Warranty Labor Rate” and will not include reimbursement for offsite travel. A Warranty Claim Form must be submitted within 45 days of warranty repair authorization to receive credit for repair.

A return authorization number must be obtained from Star Industries before a product can be returned for inspection and/or warranty and that number must appear on the return shipping label. Upon inspection, Star Industries will determine if the product is defective and if so, whether it will be repaired or replaced. Repair or replacement is at the discretion of Star Industries. Transportation charges to Star Industries are not covered under the warranty and must be prepaid by dealer or customer unless it is within the first two years of warranty. In which case, if evidence acceptable to Star Industries, is provided that the product is defective and the return is from within the continental United States or Canada, Star will arrange for return shipment at Star Industries’ expense. Products found to be defective within the initial two year period and returned to Star Industries for repair or replacement will be returned to the dealer or customer freight prepaid providing it is within the continental United States or Canada. Warranted products to be shipped outside the United States or Canada and those warranted after the initial 2 years will be shipped freight collect. Unwarrantable products will be returned freight collect at the request of the dealer or customer, otherwise they will be destroyed.

LIMITATION OF DAMAGES: Star's obligation under this warranty shall not include costs of installation, duty, taxes or any other charges whatsoever or any liability for direct, indirect, incidental or consequential damages or delay. Star's liability for any and all losses and damage to purchaser resulting from any cause whatsoever, including negligence or breach of form of warranty, express or implied, by Star, alleged damage for defective goods, irrespective of whether such defects are discoverable or latent, shall in no event exceed the purchase price of the particular goods. Products repaired or replaced under this warranty are warranted only for the remainder of the original warranty. Any improper use including operation after discovery of defective or worn parts not approved by Star or any alteration or repair by others in such manner as in Star's judgment affects the product materially and adversely shall void this warranty.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL OR IMPLIED) INCLUDING WARRANTIES OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.