



Bluff Manufacturing's Hand-Crank Leg Assembly & Installation Instructions

Tools Required

Socket Wrench 9/16 + 3/4

Wrench 9/16 + 3/4

Hardware Supplied

20 pieces 1.5 x 1/2" bolts,

20 (1/2") flat washers

20 (1/2") lock washers

20 hex nuts

Two (2) 2x3/8" bolts

Two (2) 3/8" nuts

Assembly

1. Offload ramp from truck following proper offloading instructions.
2. Place ramp down on hard surface.
3. Use a 5,000 lb. capacity or greater forklift to lift front edge of ramp on level off portion
4. Crank legs all the way down by turning shafts
5. Take hardware (4 sets) and place by first leg to be installed
6. Insert shaft through hole in ramp and line up holes for bolts. 4 total holes per leg, two upper two lower
7. Take 1.5" bolt and flat washer then run through hole. Place lock washer and nut on rear interior side of leg.
8. Repeat 3 more times for leg installation. Do not tighten with tool only hand tight
9. Repeat with other leg
10. Place leg gusset on ramp by placing tread face to the outside. Upper corner of gusset will be on the inside of the bracket secure hand tight with 1.5" bolt.
11. Repeat on bottom section by placing corner on outside of bracket.
12. Repeat for other leg
13. Take jack brace channel and place between legs with smooth side facing the long extended portion of ramp. Thread flat washer onto bolt before inserting through hole then place lock washer and nut to hand tighten. Repeat on other side.
14. Slide jack connection tube onto inside shaft of one jackleg then slide onto the opposite leg shaft to line up bolt holes. Install 3/8" hardware
15. Begin tightening hardware starting with jacklegs followed by gussets, channel and tube (leave some slack in tube, don't over tighten)
16. Install handle on either side depending on cranking preference or environmental obstacles



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