

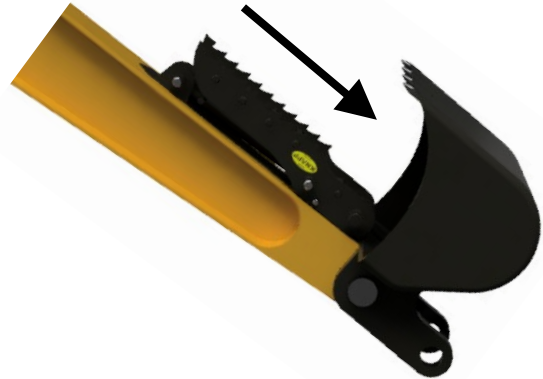
THUMB INSTALLATION INSTRUCTIONS



STEP 1:

Crowd the bucket and hitch as far as you can into the dipper arm. Place your KNAPP Hydraulic Thumb on the dipper arm. Position the thumb as far down to the bottom of the dipper arm as you can without the thumb interfering with the hitch or bucket.

Tie the backing plate of your KNAPP Hydraulic Thumb onto the dipper arm using tie downs or strops.



STEP 2:

With your KNAPP Hydraulic Thumb tied onto the dipper arm, crowd the dipper arm into the boom to make sure the thumb does not hit the boom or hydraulic plumbing. Depending on the length of the dipper arm, sometimes KNAPP Hydraulic Thumbs are manufactured so the two blades of the thumb fit outside the boom.



STEP 3:

Still with your KNAPP Hydraulic Thumb tied onto the dipper arm, loosen the plugs in the hydraulic ram and fully open the thumb to its 135 degree position. Make sure the end of the thumb blades reach the end of the bucket in this fully open position.



STEP 4:

Remove the pins, thumb and ram leaving the backing plate tied onto the dipper arm. Weld the backing plate onto the dipper arm by stitch welding around the outside of the backing plate. For larger thumbs, the backing plate may also have plug welding holes to weld.



STEP 5:

Reassemble your KNAPP Hydraulic Thumb and plumb it up. Set pressures to a maximum of 2500 psi. We recommend using a Cross line relief so the bucket ram and thumb ram do not work against each other.

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