

KINGHITTER

Instructions for Fitting A Strengthening Kit to Side Tilt Ram Lug on 300mm Mast Shift.



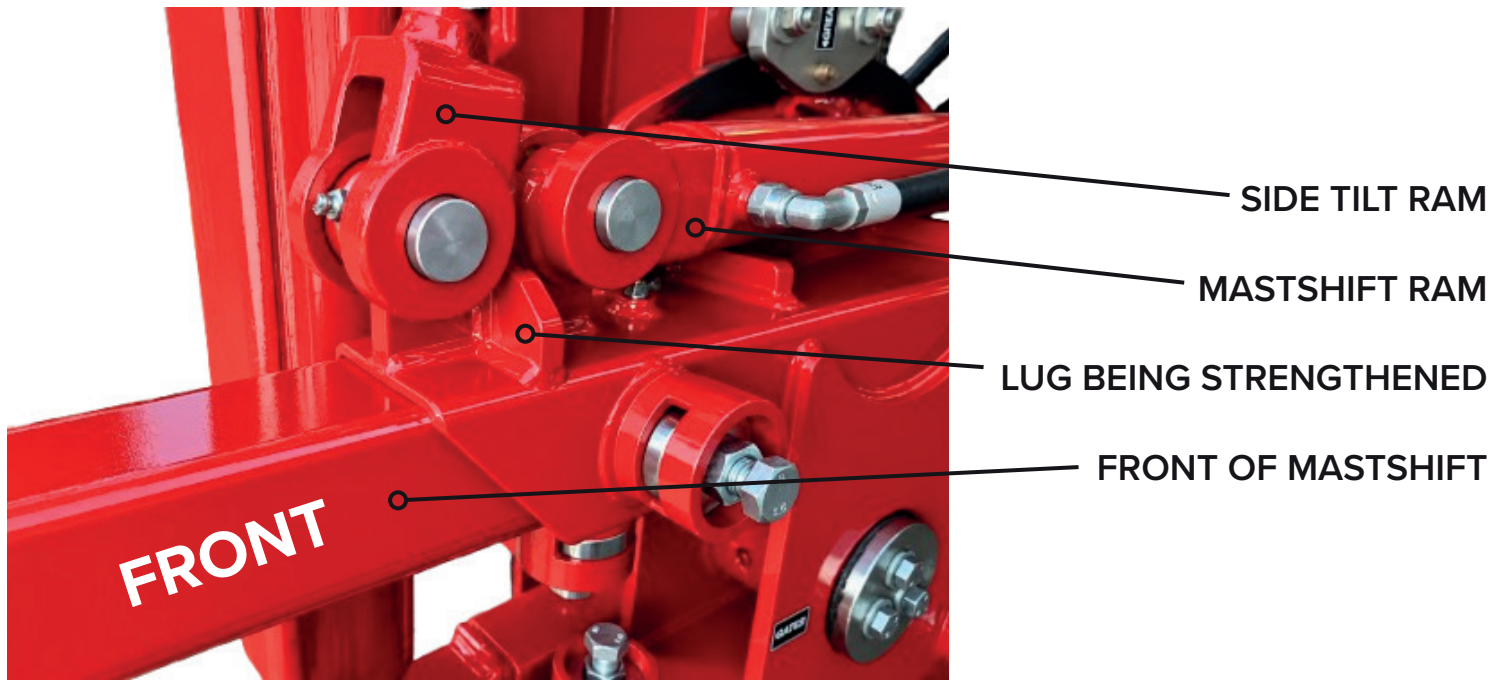
Do not begin any part of this installation until Farmgear has issued a job/order number.
See the Warranty Claim Form for that process.

E: warranty@farmgear.co.nz
P: 06 356 8516

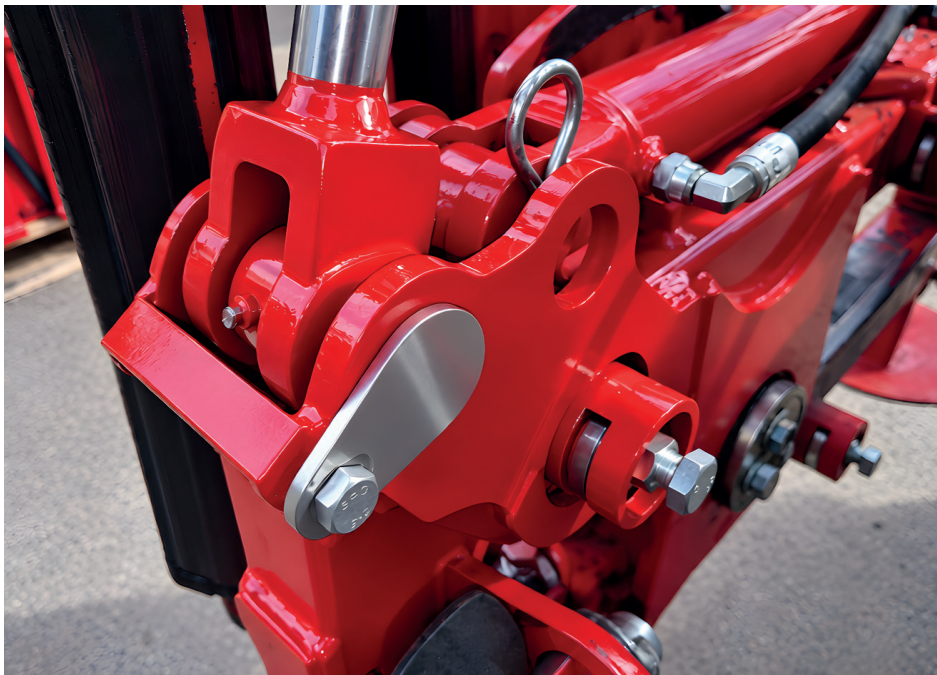
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2.



Before starting Installation, the photo above shows the side tilt ram and mast shift ram. Please read through this guide before starting, so you understand the steps required.



The photo above shows the installation completed. Check that you have all the tools and parts ready before you begin.

3.

In the Mastshift Strengthening Kit | Contact us if anything is missing.

1. Front Plate
2. Back Plate
3. 90 X 20 X 10mm joiner piece
4. New Side Tilt Ram pin
5. M12 X 40 Bolt & nut
6. 2 X 5mm R-Clips
7. M12 X 120 Bolt and nyloc nut
8. 80mm spacer tube
9. 1 can Red Aerosol paint
- Primer/Topcoat in one



Health & Safety

It is imperative that this remedial work is carried out in a safe manner, and in accordance with all relevant laws in the location of the repair being undertaken.

Post Driver Stabilisation

Special care must be observed at the point when the side tilt hydraulic ram pin is removed. At this point, the mast must be completely stable and secure, as while this pin is temporarily removed, the mast is fully dependant on the postcap holding it in position. Therefore an extra form of stability must be actioned.

This may be by way of strapping, tie downs, rope etc, that ensures the mast cannot move during that part of the process. A ratchet tie-down around the mast and the post is also required.

If carrying out this work in a workshop, the mast may instead be supported using a crane or overhead hoist rated for the load, positioned to prevent any movement while the side tilt ram pin is removed. Sling the post driver from an overhead crane. Being slung from the crane keeps the mast and machine from tipping or moving while the pins are removed.

Once slung, use a hydraulic power pack, the customer's tractor, or crane movement to bring the side tilt ram to a point where there is no load on the pin (loose), so the pin can be removed.



4.

Step 1 | Replace Retaining Bolts with R-Clips

Remove the 6mm bolts in the pins and replace them with the 5mm R-Clips supplied.



Remove these 6mm bolts and discard them



Replace with R-Clips

Step 2 | Securing the Post Driver Mast

The post driver needs to be connected to the tractor. It must be upright and stable so the pins can be removed. There are several ways of doing this;

In paddock/on tractor:

1. Sit the postdriver on a fencepost, with the postcap spike engaged in the top of the post, and the hammer sitting on top of the post cap.
2. Hit the Rock Spike into the ground and sit the post cap and hammer (block weight) on it.



In a Workshop:

1. Use an overhead crane & sling to lift the post driver so it can't fall over. Once the post driver is lifted up slightly so there is no pressure on the side tilt and mastshift pins, progress with step 3.



5.

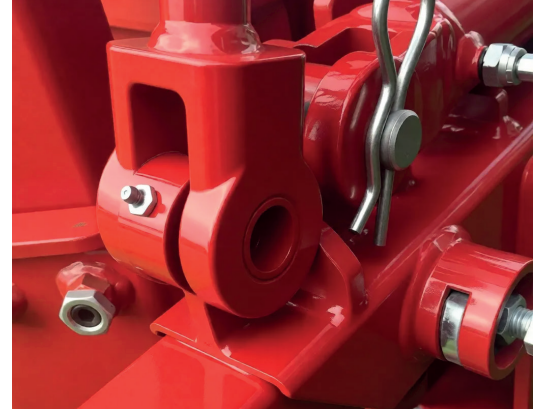
Step 4 | Remove & Replace The Existing Pins

Once the mast is secure, find a position where the rams are loose (have no pressure on them) so the mast shift ram pin can be removed and repositioned, and the side tilt ram pin replaced.

Remove the pin in the mast shift ram, and rotate it 180° so the head of the pin is on the mast side (so the hole for R-clip is on the same side as 3 point linkage.)



Remove the pin in the side tilt ram and replace it with the new pin, (with it already fitted through the front plate as outlined in step 5)



Step 5 | Fitting The Strengthening Plates

5a. Thread the new pin through the front plate.

5b. Push the pin through the side tilt ram clevis, stopping flush with the back as shown.



Pin pushed through side tilt ram clevis.

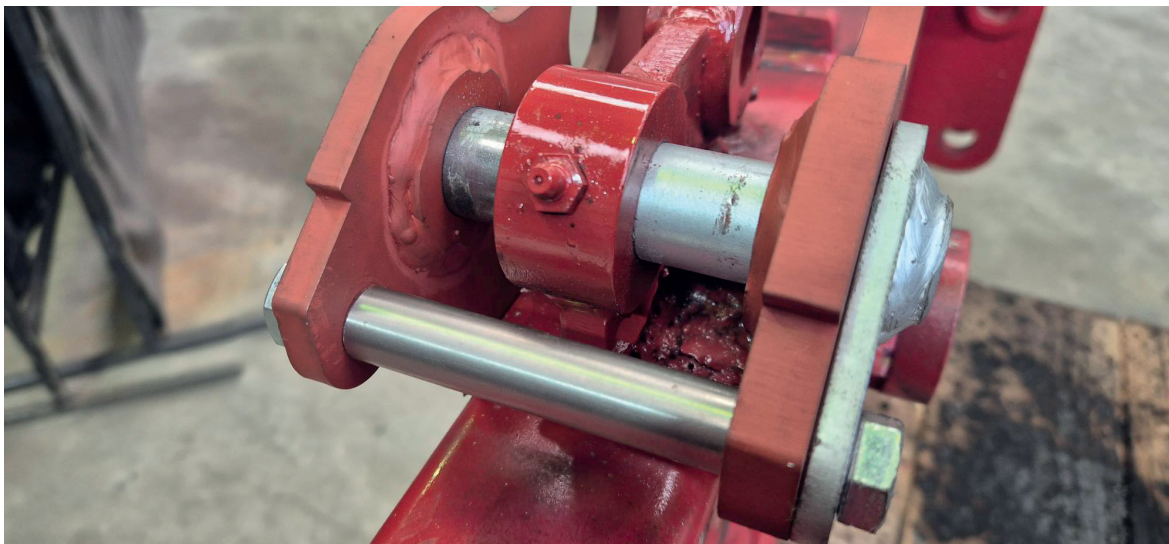
5c. Position the back plate as shown below, and push the pin all the way through.



6.

Step 6 | Bolt Strengthening Plates Into Place

Once both plates are in position, fit the spacer tube between the plates and bolt them together.



The two plates are now held in position by the M12 X 120 mm bolt and the spacer tube.
The assembly is now ready for welding.

Step 7 | Tack Welding

The welding must be completed by a proficient welder to a standard that is generally acceptable to the industry. Both MIG or Arc welding are acceptable.

6a. Tack weld the joiner in position



6b. Tack weld the front plate



6c. Tack weld the back plate



7.

Step 8 | Final Welding

Once the plates have been tac welded into position, you can progress with final welding as per the instructions below.



Front plate weld area.



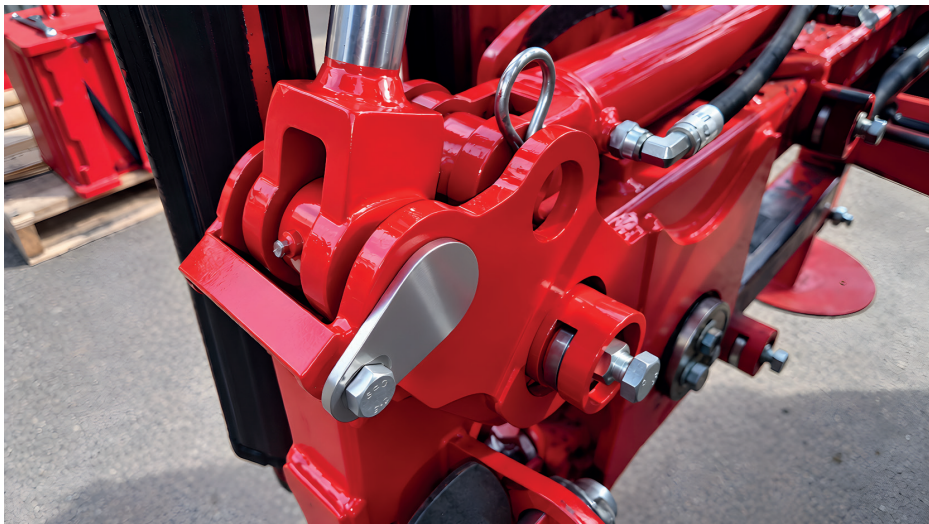
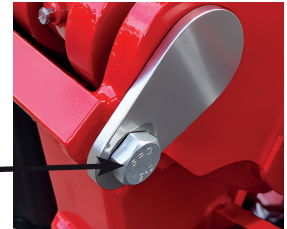
Back plate weld area.

Step 9 | Painting.

Once welding is complete and has cooled down, use the paint can supplied to paint the area that has been worked on. 2 coats are recommended.

Step 10 | Retaining Bolt.

- 9a. Remove the M12 x 120 bolt and spacer tube.
- 9b. Replace with M12 x 40 retaining bolt.



Step 11 | Completion.

*Crucial Step

Send Photos of the completed job to warranty@farmgear.co.nz

KINGHITTER

To the owner of this Kinghitter machine,

We recently identified a design error affecting a small number of machines, including yours, and we're sorry for the hassle it's caused. That's not good enough from us, and we own it.

Kinghitter is proudly part of Farmgear, a family-owned New Zealand business built on supplying honest, hard-working gear to farmers and fencing contractors. We don't take lightly the trust you place in our equipment, especially when it comes to the safety of the people using it out in the field every day.

That's exactly why we wanted to front-foot this issue rather than wait for something to go wrong. We trust your Kinghitter will continue to give you many more years of tough, reliable service.

Thanks for your patience and understanding while we've worked through this.

Regards,
The team at Kinghitter | A brand of Farmgear