

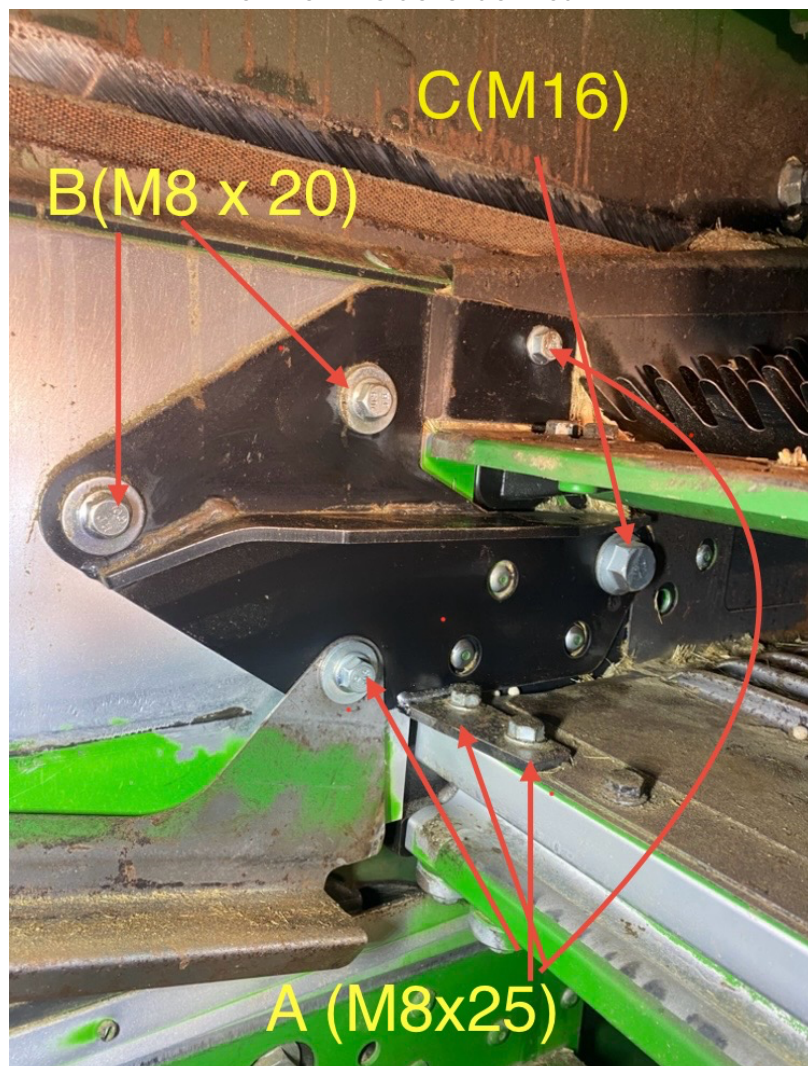
## Chaffer Frame Strengthening kit installation instructions.

**Please read instructions thoroughly to familiarise yourself with the process before installing this kit.**

Special Tools needed for installation:  
- Hand operated Rivnut gun

1. Carry out procedure to remove top and bottom sieves from machine.
2. Remove 4x pre chaffer plastic finger extensions to gain access and improve room for work area.

**NOTE:** Perform installation on one side at a time. Images depicted are for the LH side plate. Procedure for the RH side is identical.



3. Remove top sieve slide retaining bolt (A) and remove sieve slide.

4. Remove remaining bolts (A) and (C).

5. Blow out and remove any chaff or grain around plate installation position.

6. Install LH plate to side wall of frame and reinstall all bolts (A) and (C).

7. Tighten all bolts (A), starting with the 2x vertical bolts first. This helps with alignment of all other (A) bolts.

**NOTE:** It is not necessary to tighten bolt (C) at this stage, only install for hole alignment.

8. Using an 8.5mm drill bit, drill holes through chaffer frame side sheet at bolt location (B).

**NOTE:** only drill through first sheet thickness (5mm).

9. Remove bolts (A) and (C) and remove plate from side wall.

10. Enlarge the 8.5mm holes now to 13mm.

11. Confirm that there is no chaff or grain on the inside of chaffer frame before installing the Rivnuts.  
Blow out inside the 13mm hole if necessary.

**NOTE:** If there is any foreign material inside the frame this could cause the Rivnut to not fully seat and compress correctly.

12. Install 2x Rivnuts into side sheet and using a Rivnut installer.

**INSTALL TIP-** Utilise the M8 x 16 bolt previously removed from pre chaffer mounting location. Thread the bolt into the Rivnut supplied. Using a 13mm socket and extension as the driver, hammer the Rivnut into the side sheet. **NOTE** it will take some considerable force to get the Rivnut through the side sheet. Once the Rivnut has been driven home, remove M8x16 bolt and finish installation with a hand operated Rivnut gun.

13. Confirm that the Rivnut has been fully compressed by measuring distance from the outer flange to the start of the internal M8 threads. Distance must be no greater than 6mm.

If distance to the start of threads is greater than 6mm, continue compressing Rivnut until correct measurement is obtained.

14. Install plate back to side sheet and install all bolts (A) (B) and (C).

**NOTE:** Be sure to install correct length bolts into correct locations.

(A) = M8 x 25 (supplied new)

(B) = M8 x 20 (supplied new)

(C) = M16 x 150 (supplied new)

15. Install top sieve slide with pivot busing against plate and washer on outside of sieve slide as depicted in image.

16. Torque bolts (A) and (B) to 32 lb/ft.

**NOTE:** Install supplied washers on bolts (B) and top sieve slide retaining bolt (A)

17. Loosen the shoe drive belt on RHS of machine and rotate the shoe drive pulley/flywheel one complete revolution.

Rotate pulley/flywheel until the upper shaker arm is at full forward stroke and make a reference line on arm and combine side wall. (below the newly installed M16 hanger bolt)

Perform the same reference mark procedure for full rearward of stroke.

Position reference line on shaker arm in between forward and rear marks on combine side wall to achieve the **mid stroke** position.

Torque swinger arm bolt (C) to 236 lb/ft at **mid stroke** (torque the **NUT** not bolt)

**NOTE: swinger arms must be at mid stroke while torquing outside nut. Failure to do so will lead to swinger arm failure.**

18. Carry out exact same procedure for RHS.

19. Reinstall pre chaffer plastic finger extensions and progress to modifying top sieve.

# **MODIFY TOP SIEVE**

20. Modify top sieve as per image below to allow for correct installation.

21. Mark a 13 mm line down the horizontal, vertical and angled edge of the front corner of the top sieve. Join these lines together and cut this section out on a 45° angle.



## **IMPORTANT:**

### **CHECK FOR CLEARANCE AFTER TOP SIEVE HAS BEEN INSTALLED**

22. Cut and shorten 50mm off the top sieve rubber side wall seals, front side, to prevent interference with the sieve slide. Failure to do this could lead to sieve not seating home correctly and cause issues with installing sieve retaining bolts.



### **INSTALLED CHAFFER FRAME STRENGTHENING PLATE.**

#### DISCLAIMER

The Green Tech Ag Chaffer Frame Strengthening Kit is designed to reinforce chaffer frame side sheets and prevent the formation of cracks. It is **NOT** intended as a repair solution for frames that are already cracked. Green Tech Ag assumes no liability for any failures or damages resulting from improper installation or failure to follow the provided installation instructions.