

Distributed by:



John Deere 6 & 7 Series

Operation and adjustment: iPaddock Typhoon Feed Drum

(Right and left refer to as facing forwards)

The iPaddock Typhoon for John Deere fronts has been tailor designed specifically to maximise performance in these fronts. The cluster of iPaddock's patented Paddle Flights, combined with the aggressive long throw finger pattern and the reduced barrel diameter, maximises smooth flow and minimises the dead zone coming off the side mats into the feed drum on these fronts.

Retractable finger timing

Adjust the finger timing by rotating the original timing lever at the right hand end of the adaptor, as per the John Deere instructions. NOTE: It is important to fine tune the finger timing with small incremental adjustments until you find the optimum timing to suit the crop conditions.

The recommended initial position for the retractable fingers on the iPaddock Typhoon is for the fingers to reach maximum extension around 45 degrees forward from top dead center (about 2 O'clock when looking from the RH side of the machine), allowing them to be fully retracted by the time they are coming up the back side of the rotation, which minimizes the chance of catching crop and creating repeats over the drum.

If you experience repeating around the drum, this is generally improved by advancing the finger timing. This is done by rotating the timing lever anti-clockwise. Feeding issues are most commonly a result of excessively retarded finger timing.

Light and droughted crops

In very short and light crops it may be an advantage to retard the finger timing (i.e. rotate the timing lever clockwise) to maximize the length of the fingers at the bottom of the stroke.

Canola and bulky/fluffy crops

Advancing the finger timing (i.e. rotating the timing lever anti-clockwise) may be useful in crops that sit up very high in the front. Modifications to the top cross auger, including adding rubber paddles in the

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19/11/2021

centre, can also assist in pushing high or fluffy crop down for collection by the iPaddock Typhoon feed drum.

Installing iPaddock Typhoon for JD 6&7 series fronts

(Right and left refer to as facing forwards)

Remove the original feed drum:

Remove the adaptor and original feed drum from the front according to the John Deere instruction manual.

Remove the inspection covers, retractable fingers, drive end and idle end shafts, crankshaft and bearings from the original drum, ready for re-use on your new iPaddock Typhoon drum. **NOTE:** Inspect the bearings and replace if required before installing into the iPaddock Typhoon feed drum.

Assembly and installation of the iPaddock Typhoon feed drum:

Your new iPaddock Typhoon comes supplied with a full new set of fingers, plus some new finger holders. Depending on the age and model of your John Deere front, you may not need all of the fingers and holders supplied. Earlier model 6 series machines are only able to fit 22 fingers onto the shorter crankshaft.

- Bolt the original cast flanges to the outer ends of the iPaddock Typhoon. Torque the retaining bolts as per the John Deere specifications.



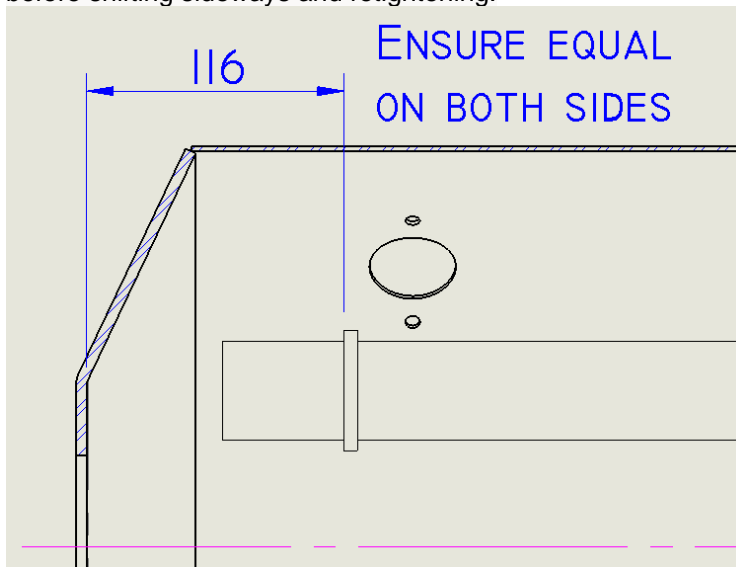
- Assemble the original hex clamped ends to the original crankshaft, inside the iPaddock Typhoon drum. **NOTE:** Later model 6 series and 7 series fronts have a longer crankshaft, and may require the corners of the end clamps to be trimmed using a cutting disc to avoid contacting inside the drum. This allows the maximum number of fingers to be used in the

iPaddock Typhoon feed drum.

CAUTION: Ensure a minimum gap of 8mm between the clamp end and the inside of the drum to avoid the risk of fire or damage.

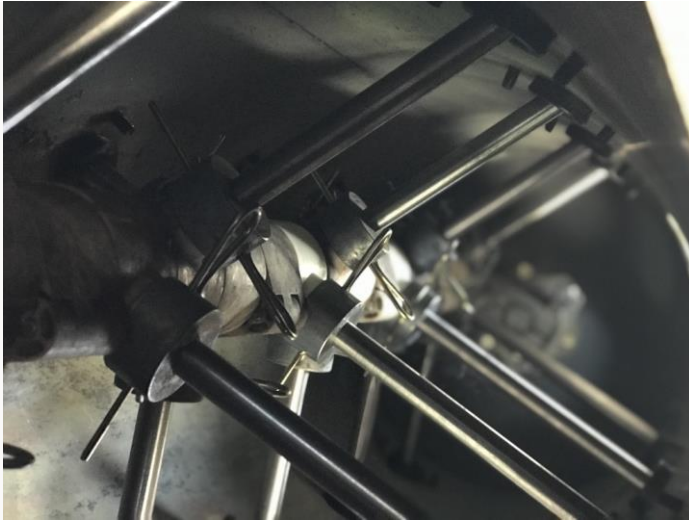


On the later models which have a shoulder on each side of the shaft it is critical that these shoulders are aligned centrally within the drum to ensure no side load on the fingers. Measurement from the inside flange of the drum (ensuring measurement to the flat area not the conical area) to the inside of the shoulder on the crankshaft as shown below should be equal both sides. The crankshaft alignment can be adjusted by loosening the clamp bolts before shifting sideways and retightening.

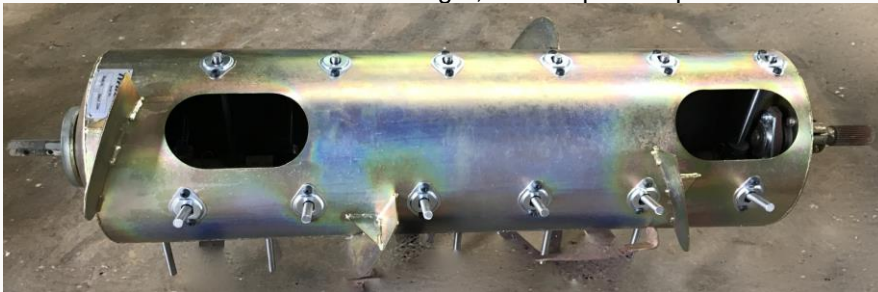


Note: On 14" drum models this dimension may be greater so the outer finger holders will need to be trimmed on the outside to suit. Ensure finger aligned well to guide with some clearance either side allowing for some heat expansion.

- Install the new retractable fingers (supplied) to the crankshaft using the original and supplied finger holders. **NOTE:** the original bent metal finger retainers are not required with the iPaddock Typhoon. Check that there is some clearance between the finger holders. **NOTE:** Some finger holders may need a small amount skimmed off the width to ensure free to rotate.



- Check that all internal fasteners are tight, and torqued as per John Deere specifications.



- Install the iPaddock Typhoon into the John Deere adaptor and fit the adaptor back into the front using the reverse of the removal steps.
- Ensure that the draper mats have sufficient clearance either side of the iPaddock Typhoon feed drum. Trim the mats and/ or adjust the position of the decks if required to achieve sufficient clearance.



- Install the original inspection covers onto the iPaddock Typhoon.

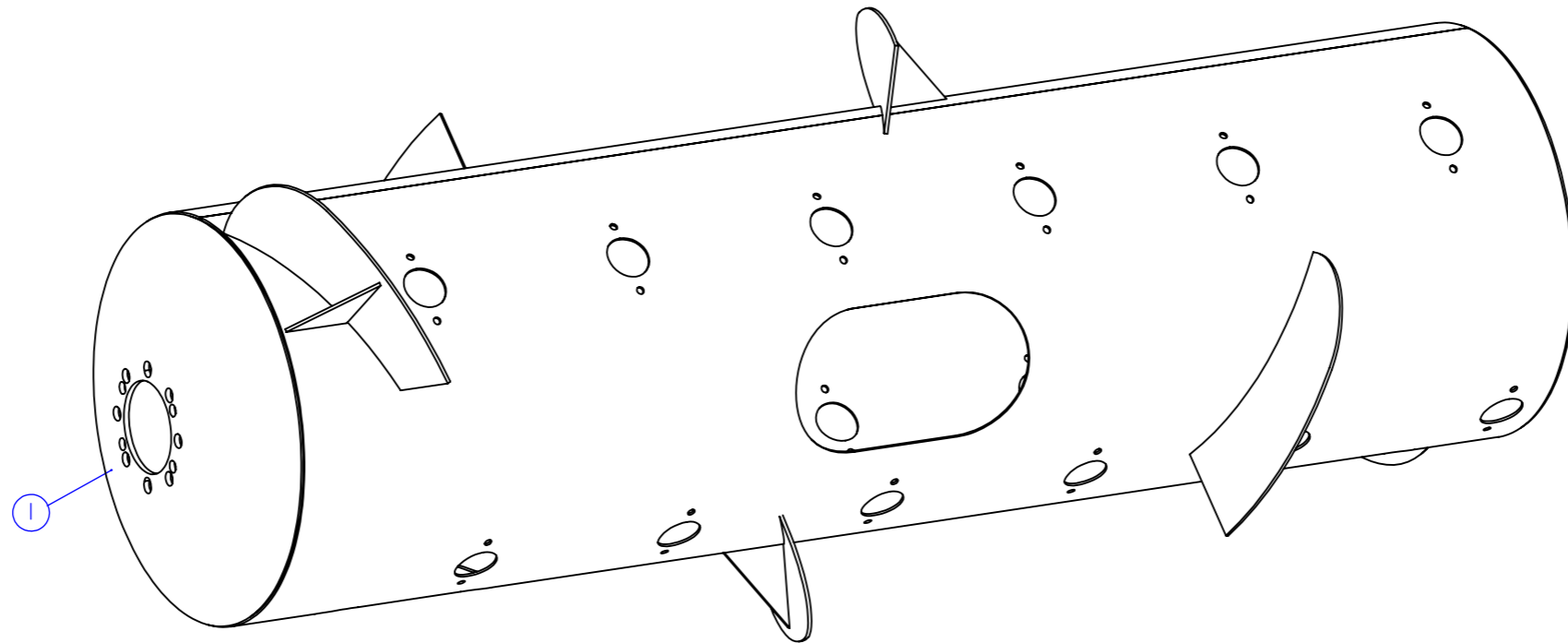
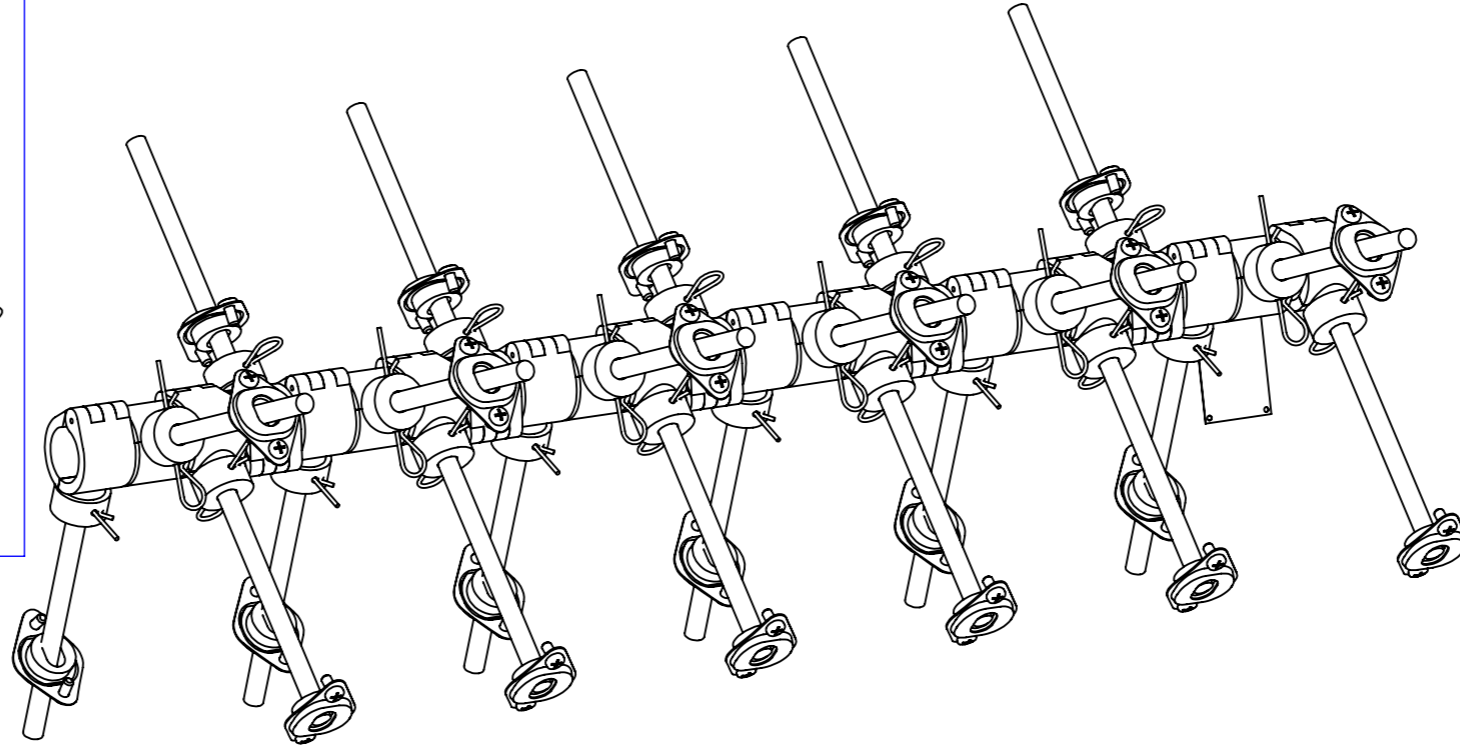
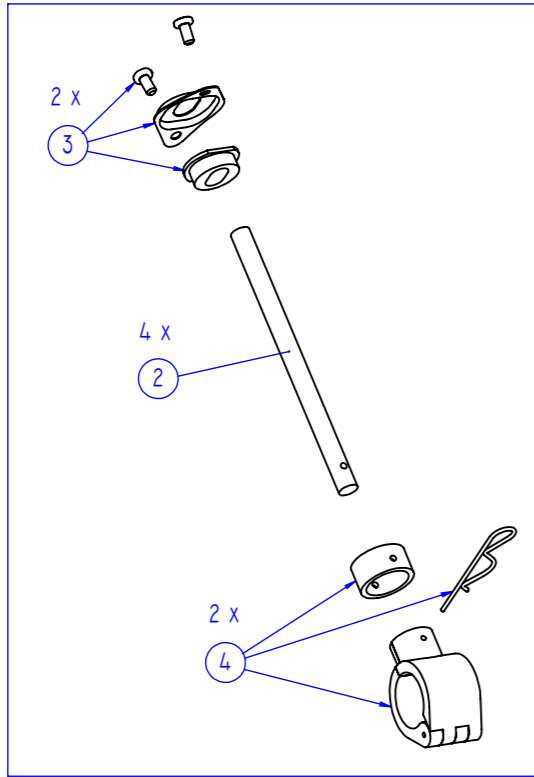


IMPORTANT: The correct orientation of the retractable finger timing mechanism is critical for correct performance of your iPaddock Typhoon feed drum. When positioned correctly, the fingers should be fully extended near the forward horizontal position when the John Deere timing adjustment lever is in mid range. This must be checked once the IPaddock Typhoon has been installed.

IMPORTANT: RISK OF FIRE OR DAMAGE. Check that all moving parts have sufficient clearance when rotating to avoid any contact. Rotate the drum manually prior to startup to confirm that there are no points of contact.

DIMENSIONS IN MILLIMETRES
DO NOT SCALE

FINGER STARTER KIT
PART NUMBER: TY-FR-KIT-JD



ITEM NO.	QTY.	PARTNo	DESCRIPTION / MATERIAL
1	1	TY-JD-DS-2021	DRUM SHELL, JD
2	24	TY-JD-FR	FINGER ROD, SUIT JD
3	24	TY-FG-KIT	FINGER GUIDE KIT
4	24	TY-FH-KIT-JD	FINGER HOLDER ASSEMBLY JD

REV.	DRAWING REVISION	DATE	BY	CHKD

DRAWING NOTES:

TOLERANCES IF NOT SPECIFIED (COARSE SERIES)						
LINEAR:	NOMINAL DIMENSION					
OVER	30	120	400	1000	6000	
TO	30	120	400	1000	6000	
TOL.	±0.5	±0.8	±1.2	±2.0	±3.0	±5.0
ANGULAR:						
FORMED:	±1° OTHER: ±0.5°					

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DRN BY: SBJ
DRN DATE: 20/8/2021
CHKD BY: MF
CHKD DATE: 20/8/2021

TITLE		PART NO		WEIGHT(KG)	
IPM TYPHOON KIT, JD		TY-JD-2021		45.37	
DRAWING NO		TY-JD-2021		REVISION	
				-	