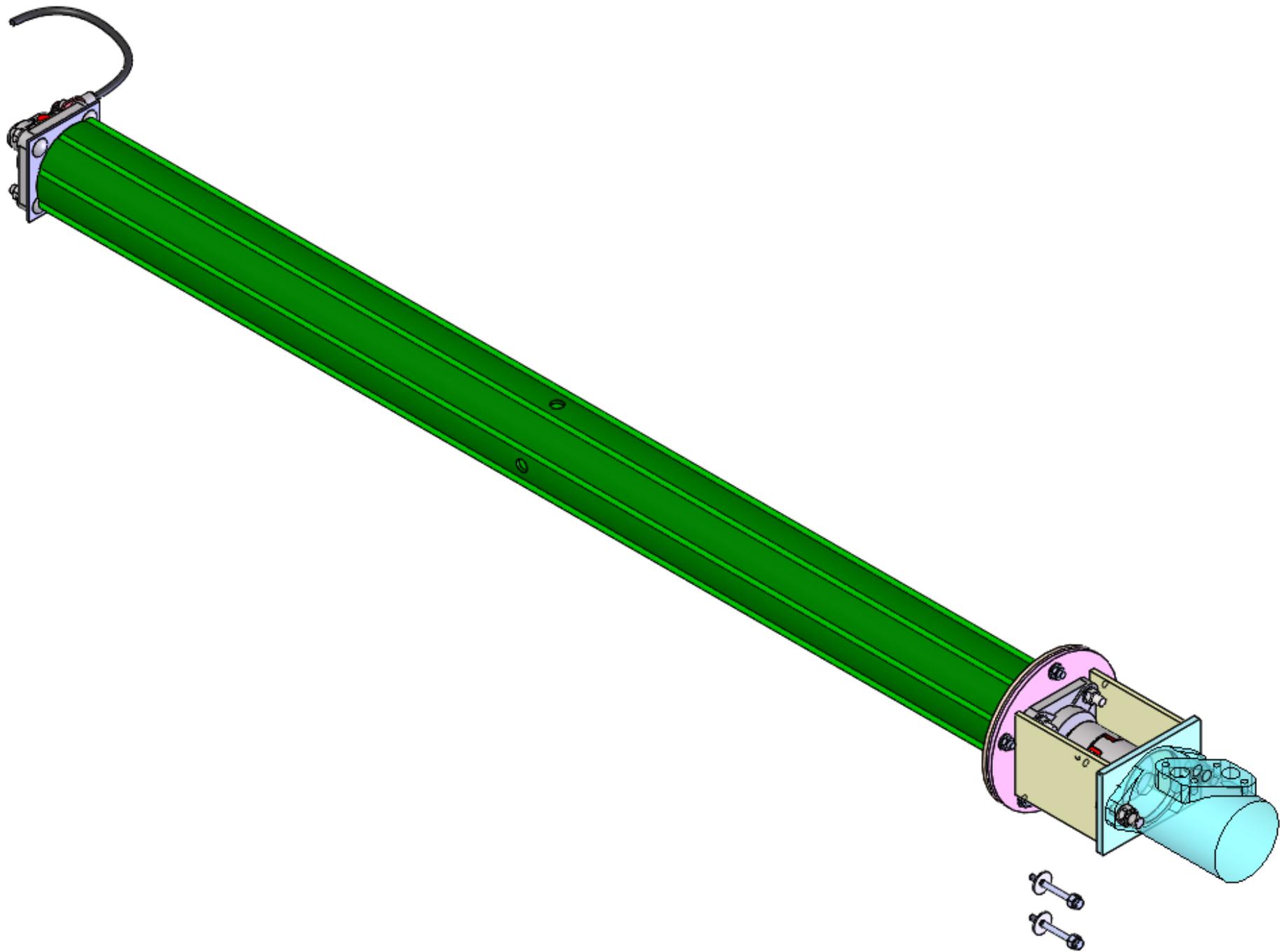


Installation of Chaff Deck Feed Roller Kit for John Deere S-Series

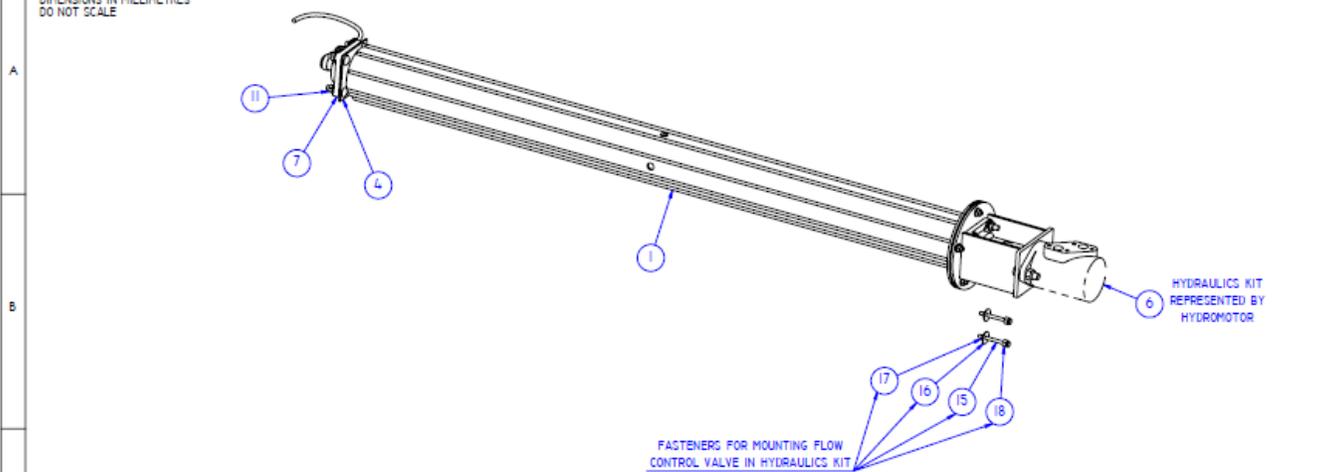




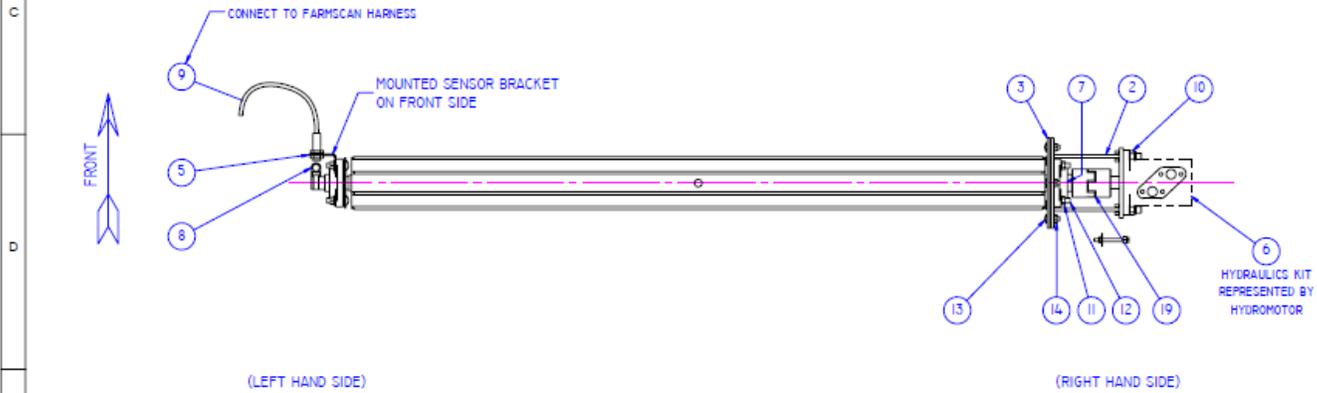


This is the kit of
parts you will
receive

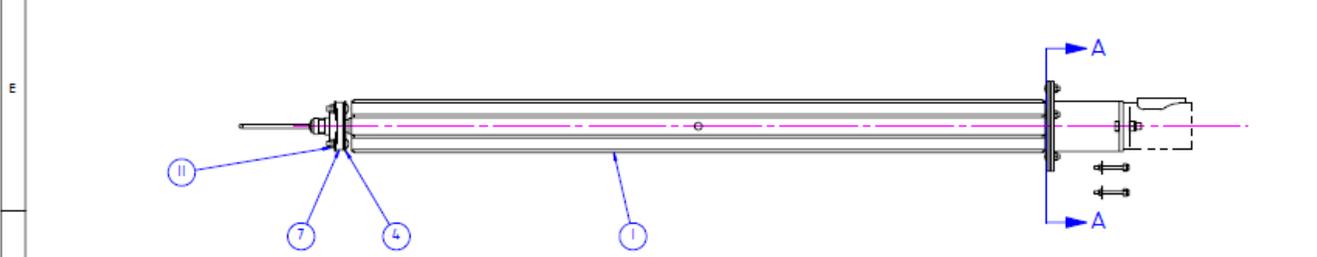
DIMENSIONS IN MILLIMETRES
DO NOT SCALE



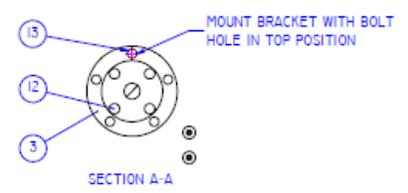
ITEM NO.	QTY.	PARTNO	DESCRIPTION / MATERIAL
1	1	CHD-1106	FEEDER ROLLER
2	1	CHD-1107	MOTOR MOUNT
3	1	CHD-1108	BACKING PLATE - MOTOR MOUNT
4	1	CHD-1109	BEARING PLATE
5	1	CHD-1110	SENSOR BRACKET
6	1	CHD-H007	HYDRAULICS, JD G SERIES, FEEDER ROLLER KIT
7	2	-	FLANGED BALL BEARING UNIT: UCF205-16 (SUITS 1" SHAFT)
8	1	-	SHAFT MAGNET & CLAMP (FARMSCAN: AA-117)
9	1	-	SENSOR - MAGNETIC PICK UP (FARMSCAN: AA-110G)
10	2	-	NYLOC NUT - 1-2" UNC
11	8	-	HEX FLANGE NUT 3-8" UNC
12	4	-	CUP HEAD BOLT 3-8" UNC x 1.5" G8
13	5	-	CUP HEAD BOLT M8 x 25MM
14	5	-	NUT - HEX SERRATED FLANGE M8
15	2	-	HEX BOLT - M6 x 65MM G8.8 ZP
16	2	-	WASHER, FLAT, WIDE, M6
17	2	-	NUT - NYLOC M6 Z/P
18	2	-	NUT - HEX M8 CL8 Z/P (USE AS SPACER)
19	1	-	CURVE JAW COUPLING: GE24-1A (ID#25.4; RED INSERT = 98 SHORE A) (C/W 1/4" SHAFT KEY & GRUB SCREWS)



NOTE: ROLLER SPEED SENSOR CABLE CHD-E008
REQUIRED FOR PRE-2017 BUILD KITS WHICH DON'T
HAVE INTEGRATED FEED ROLLER WIRE



(RIGHT HAND SIDE)



SECTION A-A

REV.	DRAWING REVISION	DATE	BY	CHKD
A	ITEM 10 CHD 9 TO 1/2" UNC NYLOC	10/04/2017	WBT	AW
B	ADDED NOTE FOR 198 2017 KIT, ITEM 7 DESCRIPTION CHD	12/07/2018	ELT	SBJ

DRAWING NOTES:
FINISH: NA

LINEAR:	NOMINAL DIMENSION
OVER 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: WBT
 DRN DATE: 11/04/2017
 CHD BY: SBJ
 CHD DATE: 12/04/2017

TITLE	PART NO	WEIGHT(KG)
EMAR CHAFF DECK - FEEDER ROLLER FEED ROLLER KIT - JD G-SERIES	CHD-FRK-JD	35.8
REVISION		
8	CHD-FRK-JD	



Hydraulic roller kits are only required on models:
Standard,
Power Cast,
Premium (without overshot beater)



The Standard (Chopper tail-board type as above) will need a hydraulic pack from your John Deere Dealership

Pre-Installation Steps



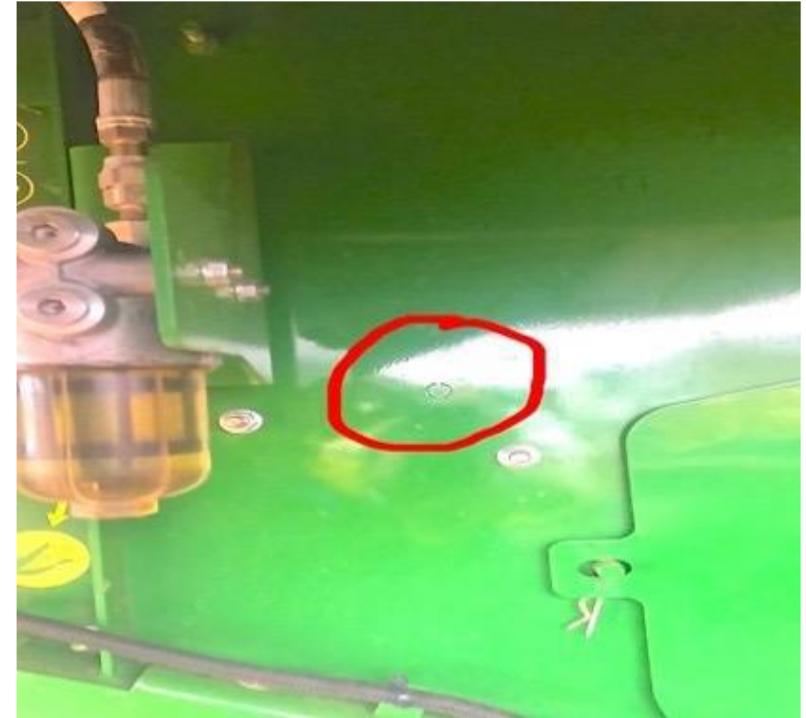


Locate this laser cut pattern on the left and right-hand side of the harvester.



Left-hand side

Note: Feed roller kit fits both type of fuel bowls.

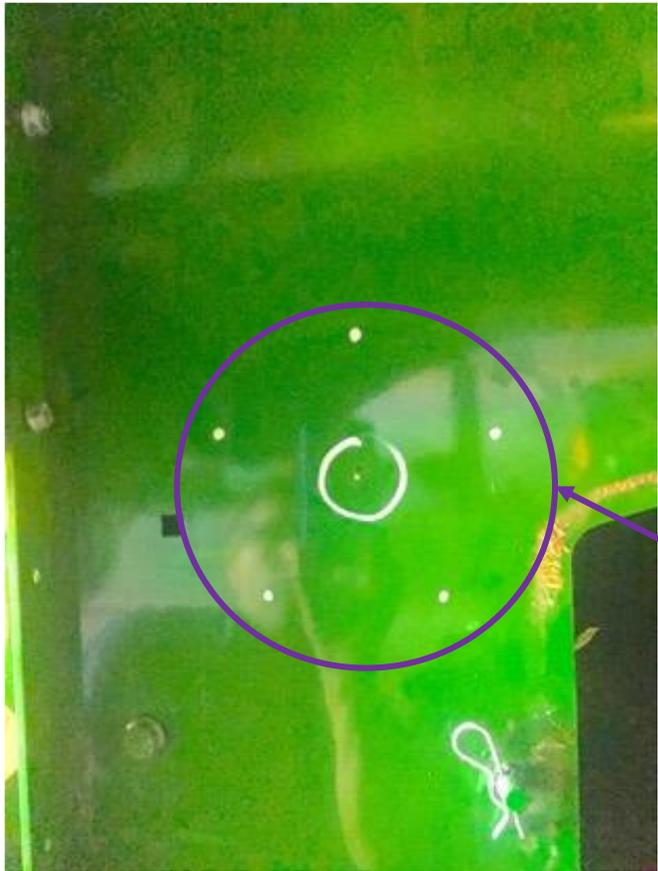


Right-hand side
Hydraulic motor side

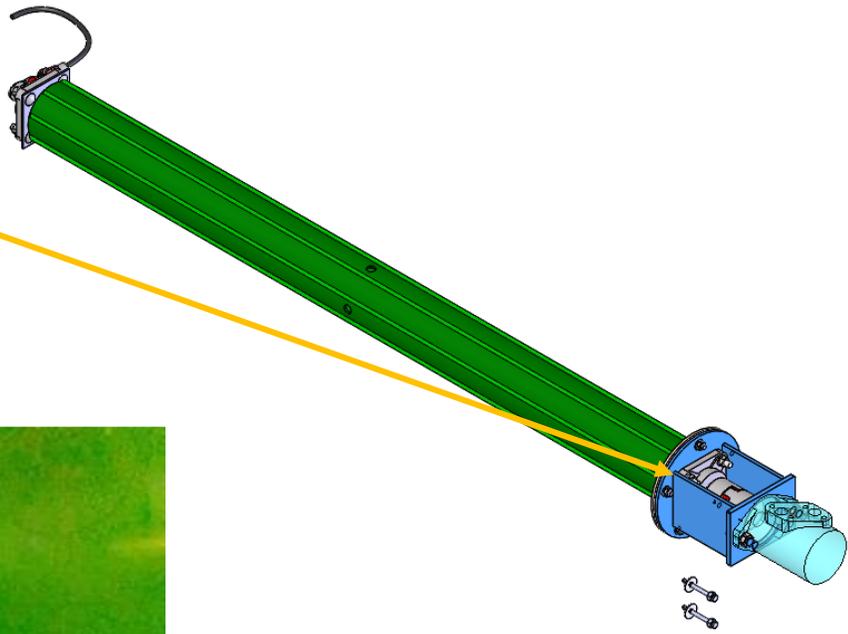


Hydraulic motor mount

Place centre of hydraulic motor mount over the laser marking. Ensure correct orientation.



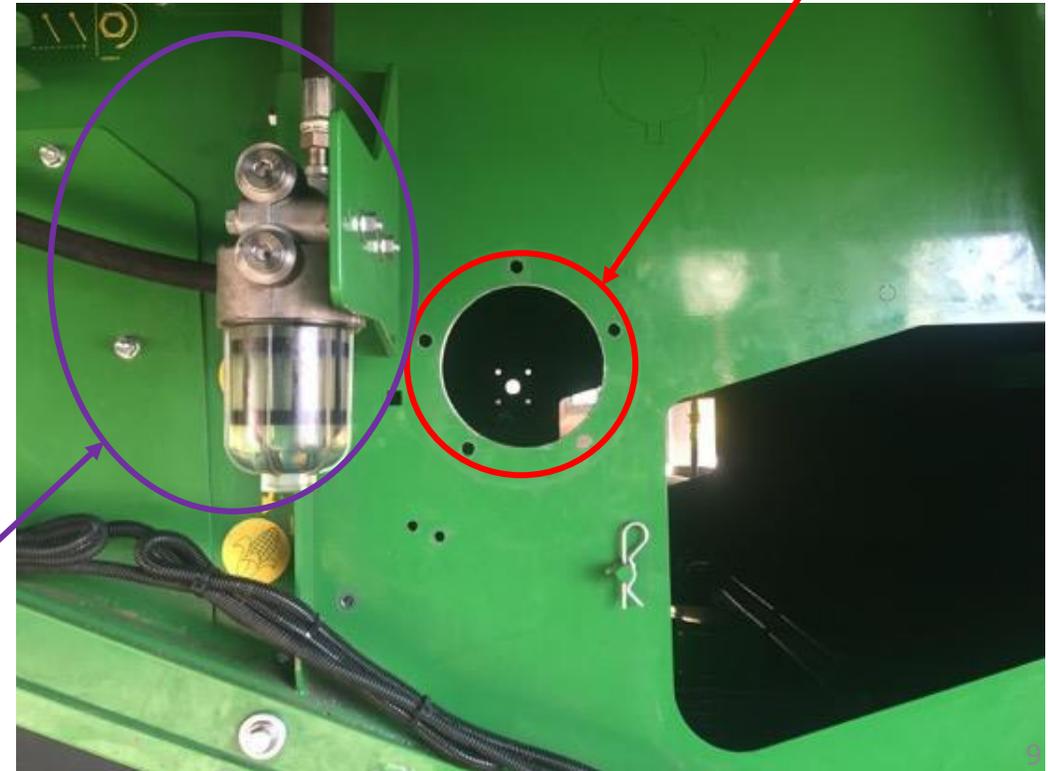
Mark the 5 outer holes. Centre pop and drill 8.5mm holes.





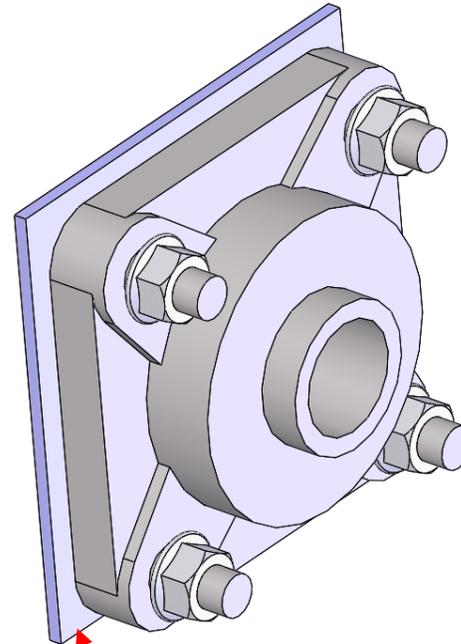
Centre pop the centre of the laser cut mark. Drill a pilot hole smaller than the hole-saw drill bit. Drill a hole of 121mm.

Finished holes looks as shown below.



Keep fuel filter and fuel lines clear, it is not necessary to undo them.

Locate the laser cut mark on the left-hand side of the harvester.



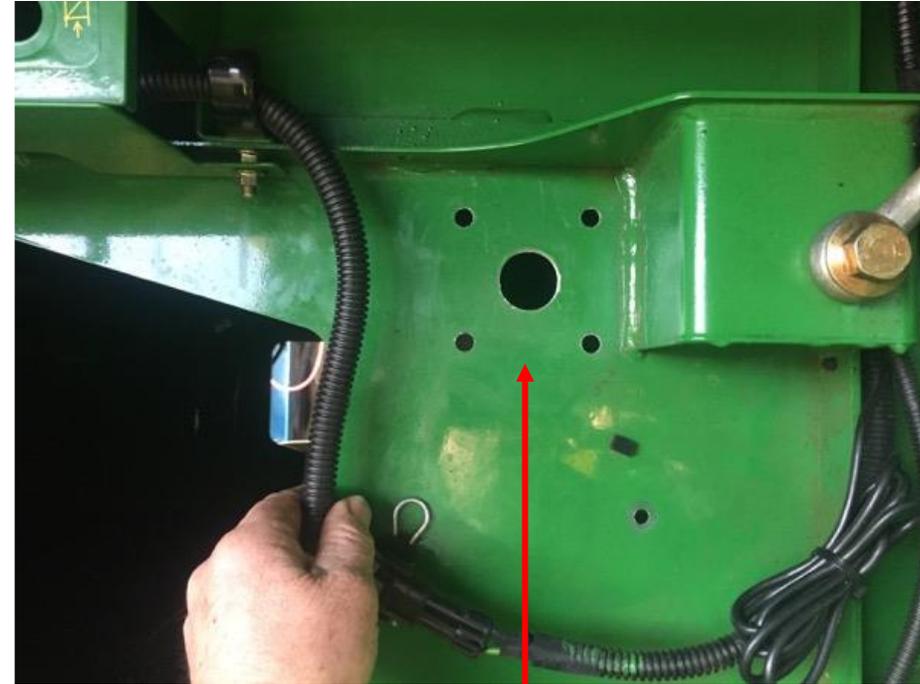
Use cast bearing block with bearings in, to mark four holes. Place the centre of the bearing over the laser cut pattern.

Centre pop and drill 10.5mm holes.





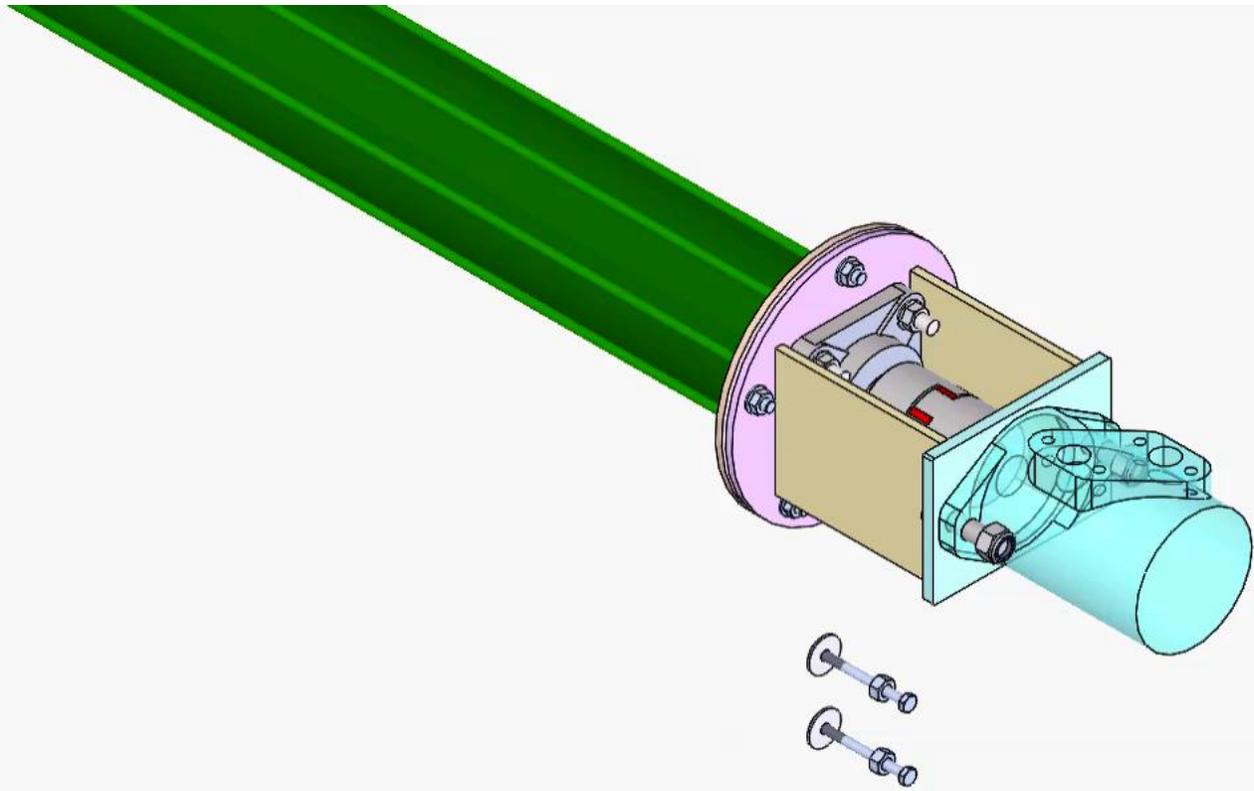
Centre pop centre of laser cut mark, then drill a 30mm hole with a hole-saw.

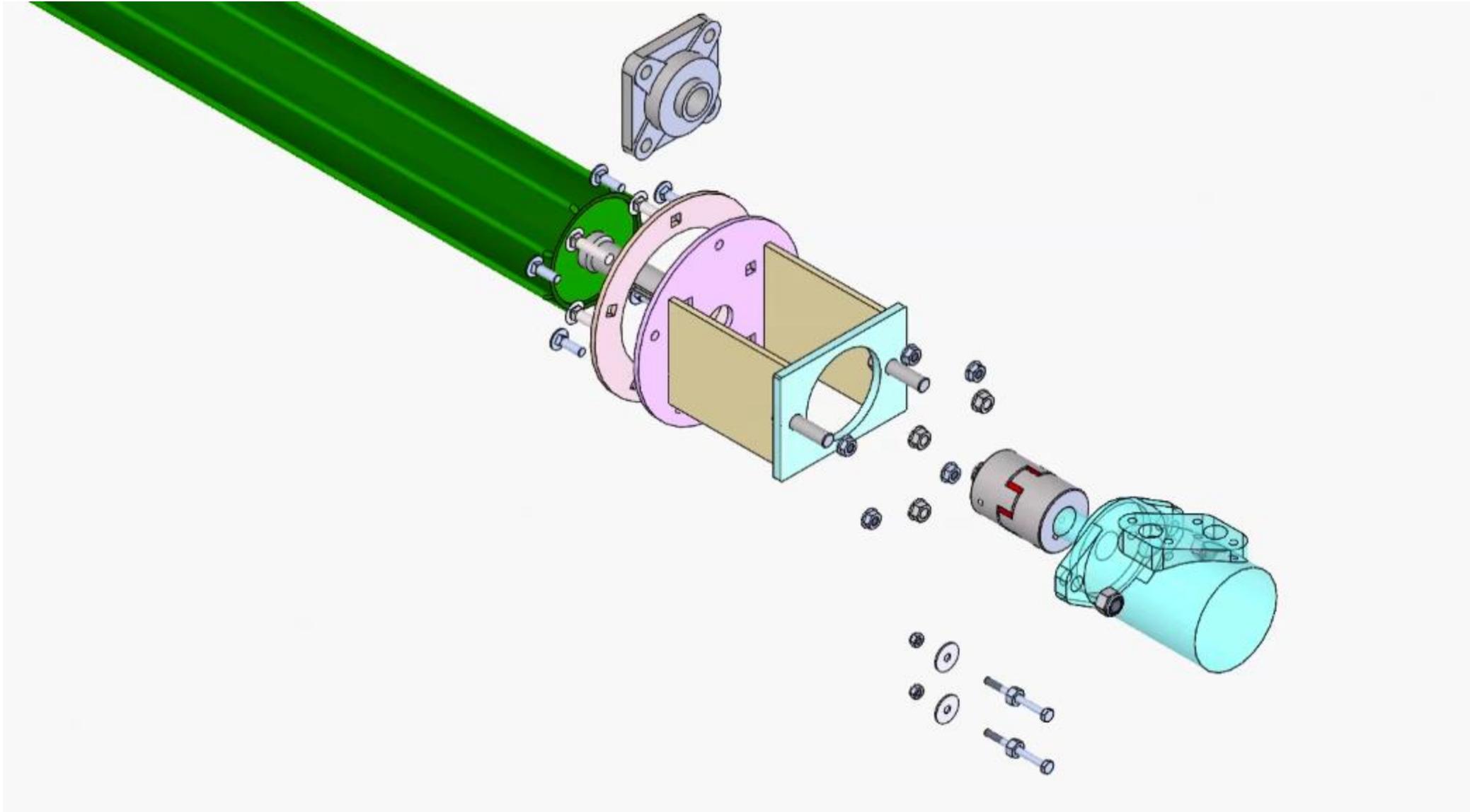


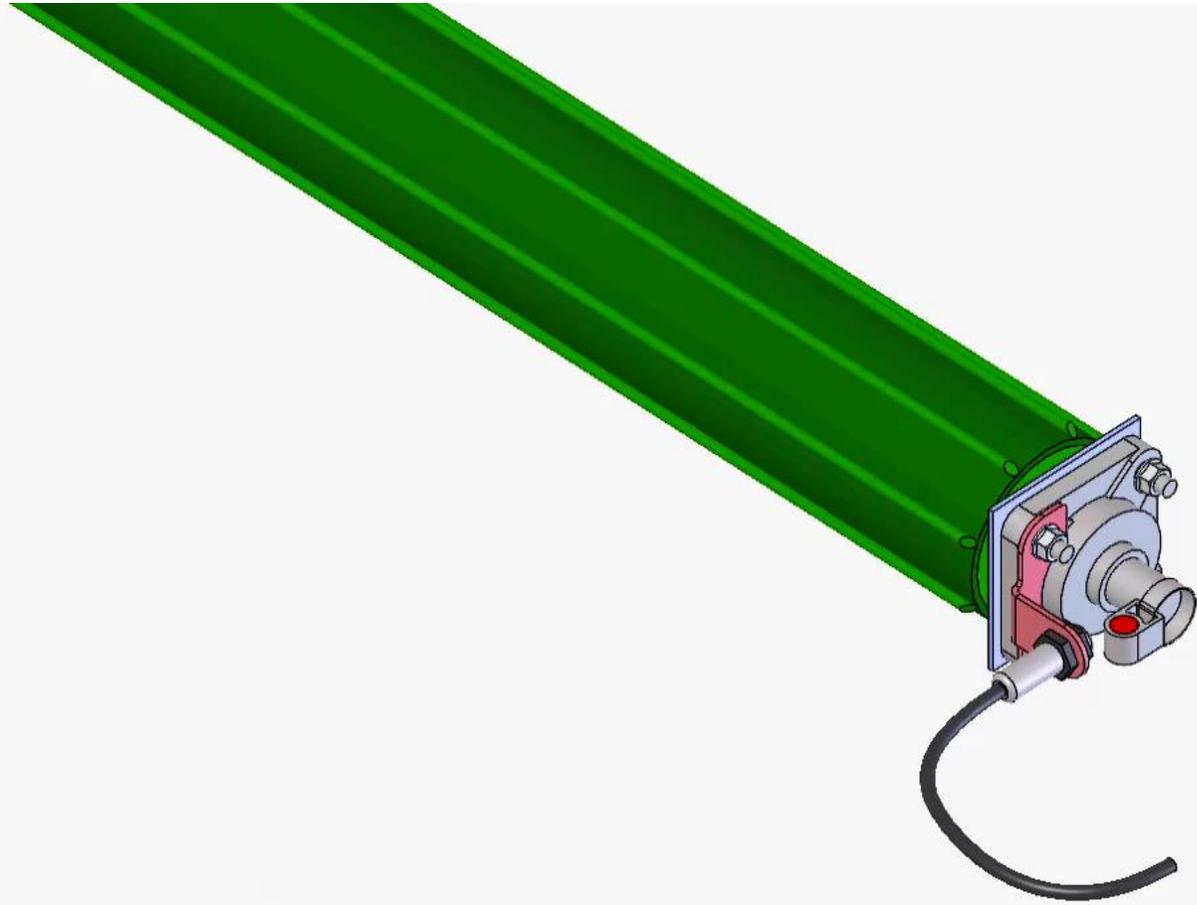
The finished holes look as shown. Remove any burrs in any of the holes.

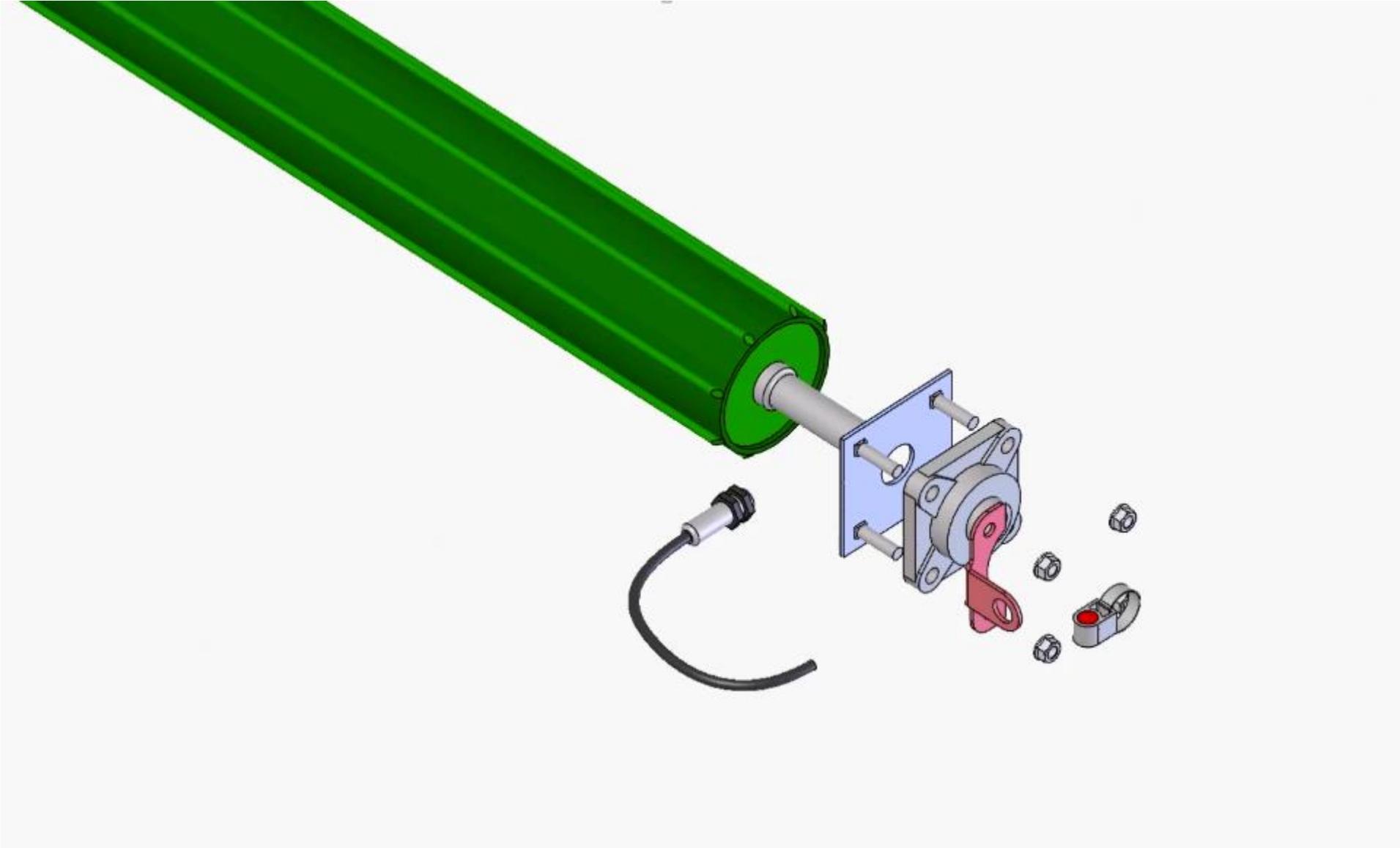
Installing the Roller





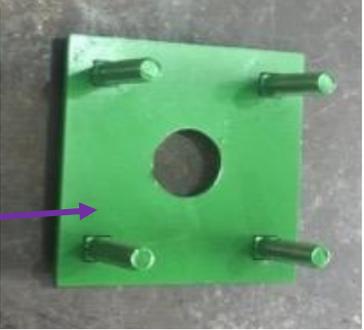




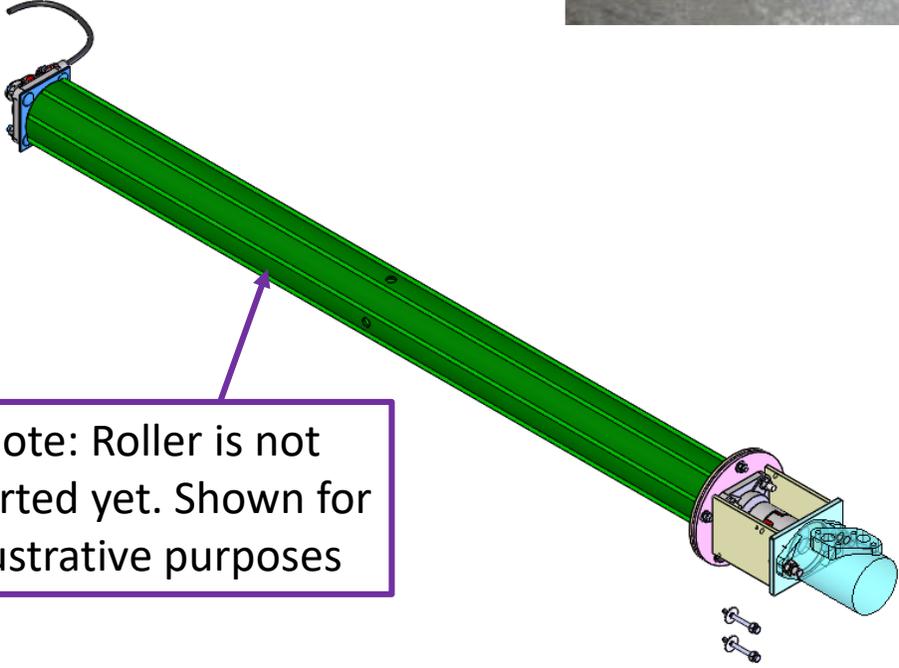




Push this plate in place from inside.

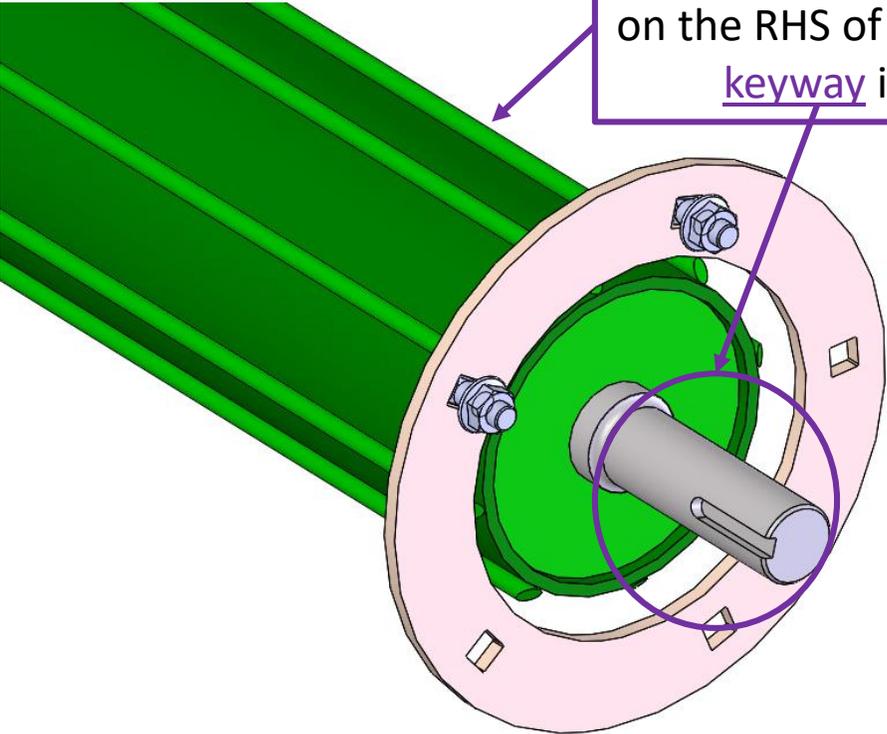


Note: Roller is not inserted yet. Shown for illustrative purposes

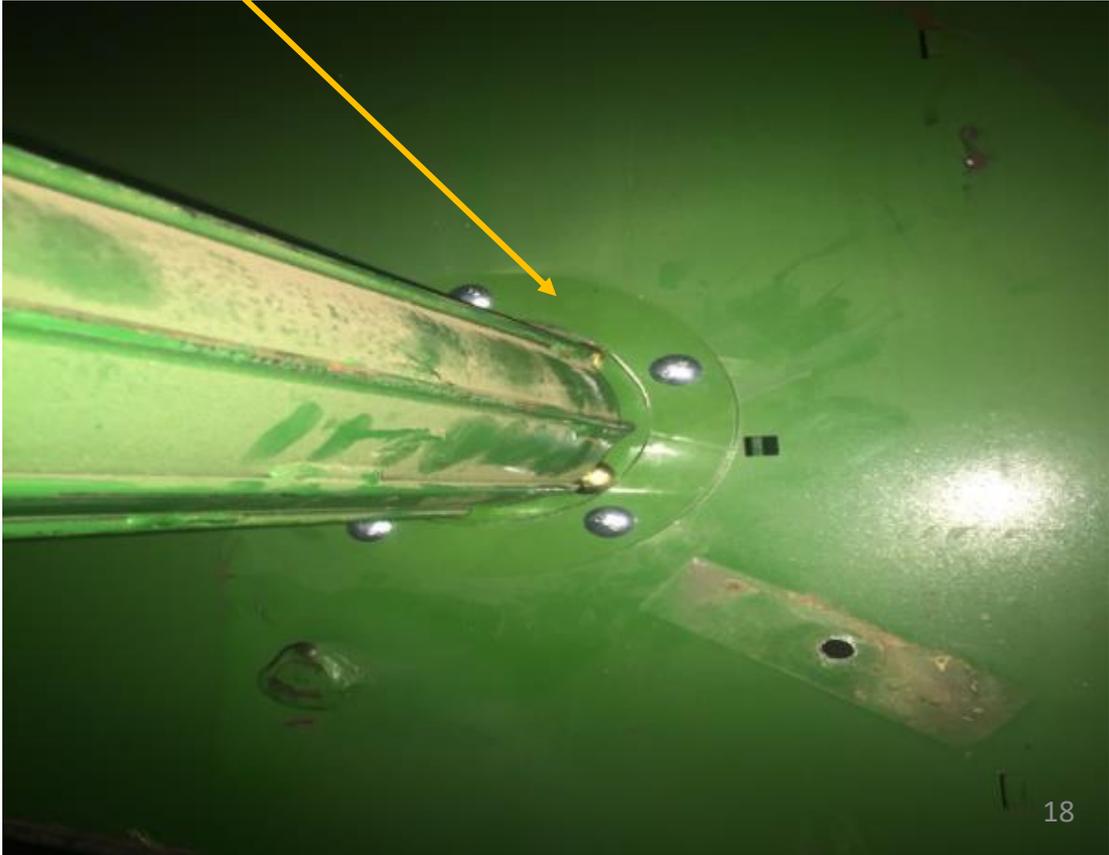




The circular plate attaches from the inside on right-hand side of machine.
TIP: Insert two bolts in-place before inserting roller.

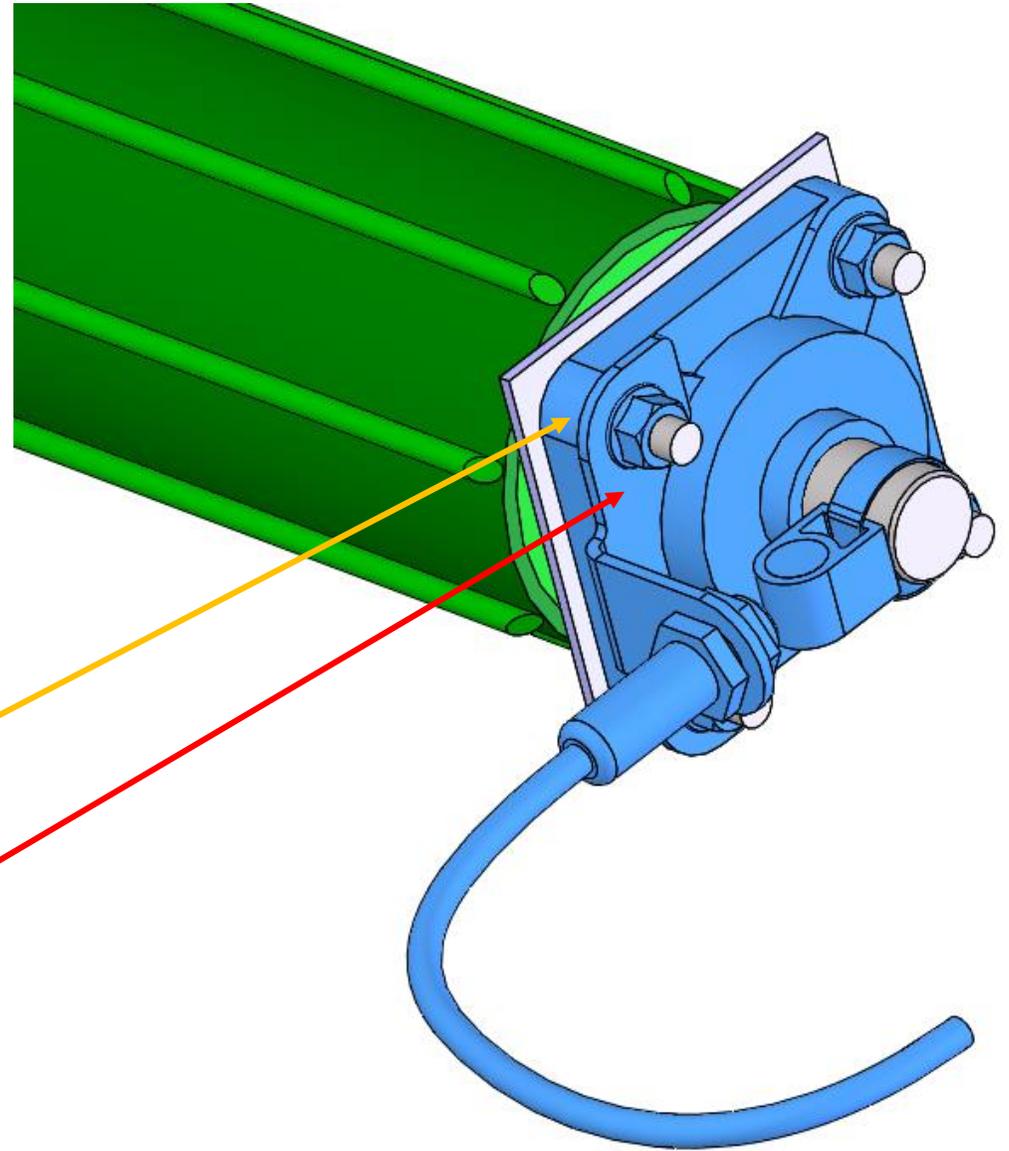


Slide roller in through the large hole on the RHS of machine, making sure keyway is out to the RHS.



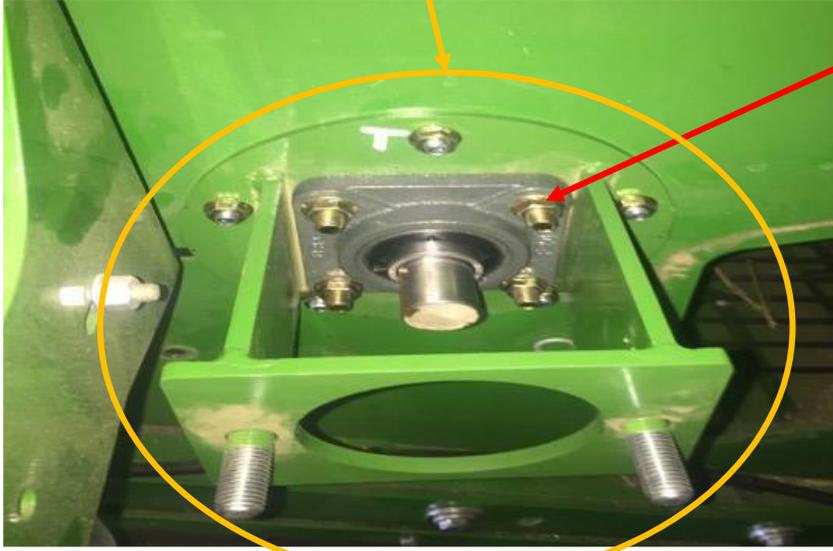
Installing External Components





Fit bearing and sensor plate on the left-hand side of the machine. Do not lock grub screws yet.

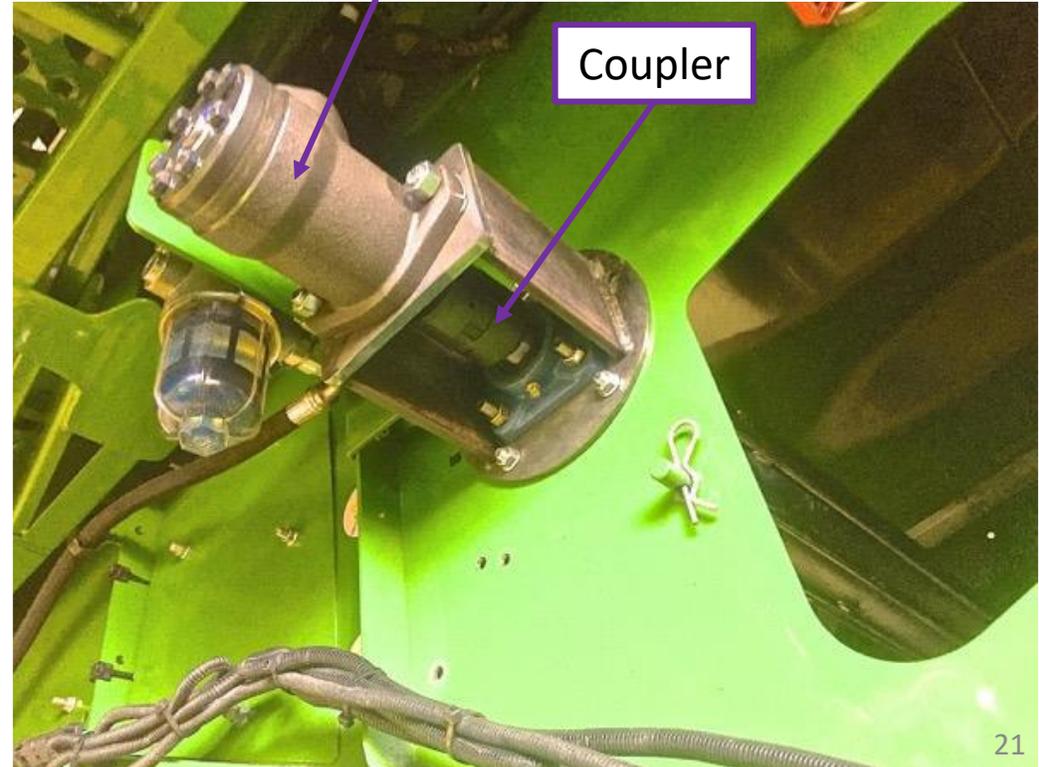
Fit motor mount, then fit the bearing to the mount and slide onto shaft. Fit and tighten the five 8mm cup-head bolts.



From inside the harvester, adjust the roller so that the distances between the roller and the walls are roughly the same. Tighten grub screws on both bearings.

Hydraulic motor

Coupler

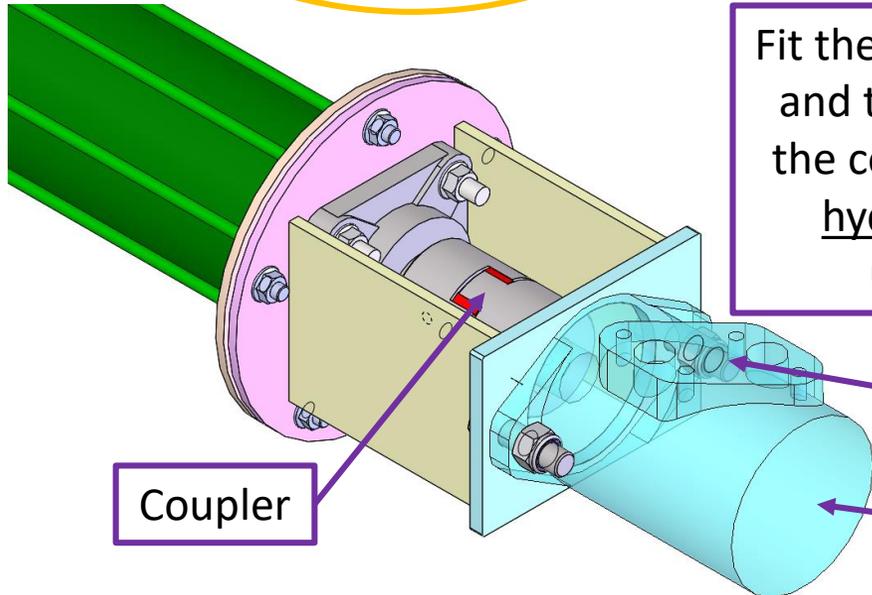


Fit the coupler onto the shaft and the hydraulic motor to the coupler via the key. The hydraulic fittings point upward as shown

Hydraulic fittings

Coupler

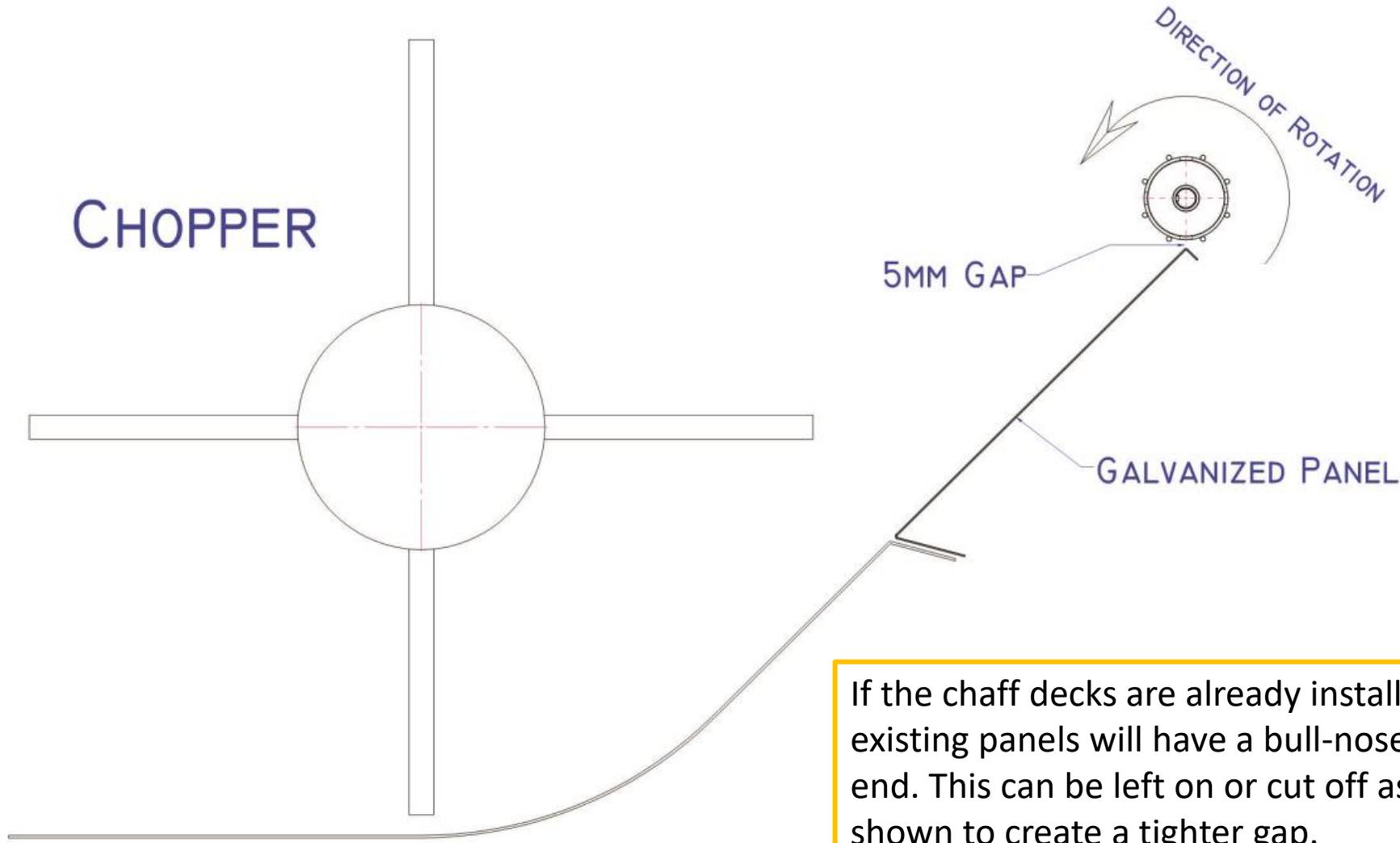
Hydraulic motor



DIMENSIONS IN MILLIMETRES
DO NOT SCALE

MATERIAL

CHOPPER



If the chaff decks are already installed, existing panels will have a bull-nosed end. This can be left on or cut off as shown to create a tighter gap.

REV	DRAWING REVISION	DATE	BY	CHKD

DRAWING NOTES:
FINISH :

LINEAR	NOMINAL DIMENSION
OVER	30 120 450 1000 6000
TO	30 120 450 1000 6000
TOL	±0.5 ±0.8 ±1.2 ±2.0 ±3.0 ±5.0
ANGULAR	
FORMED	±1° OTHER: ±0.5°

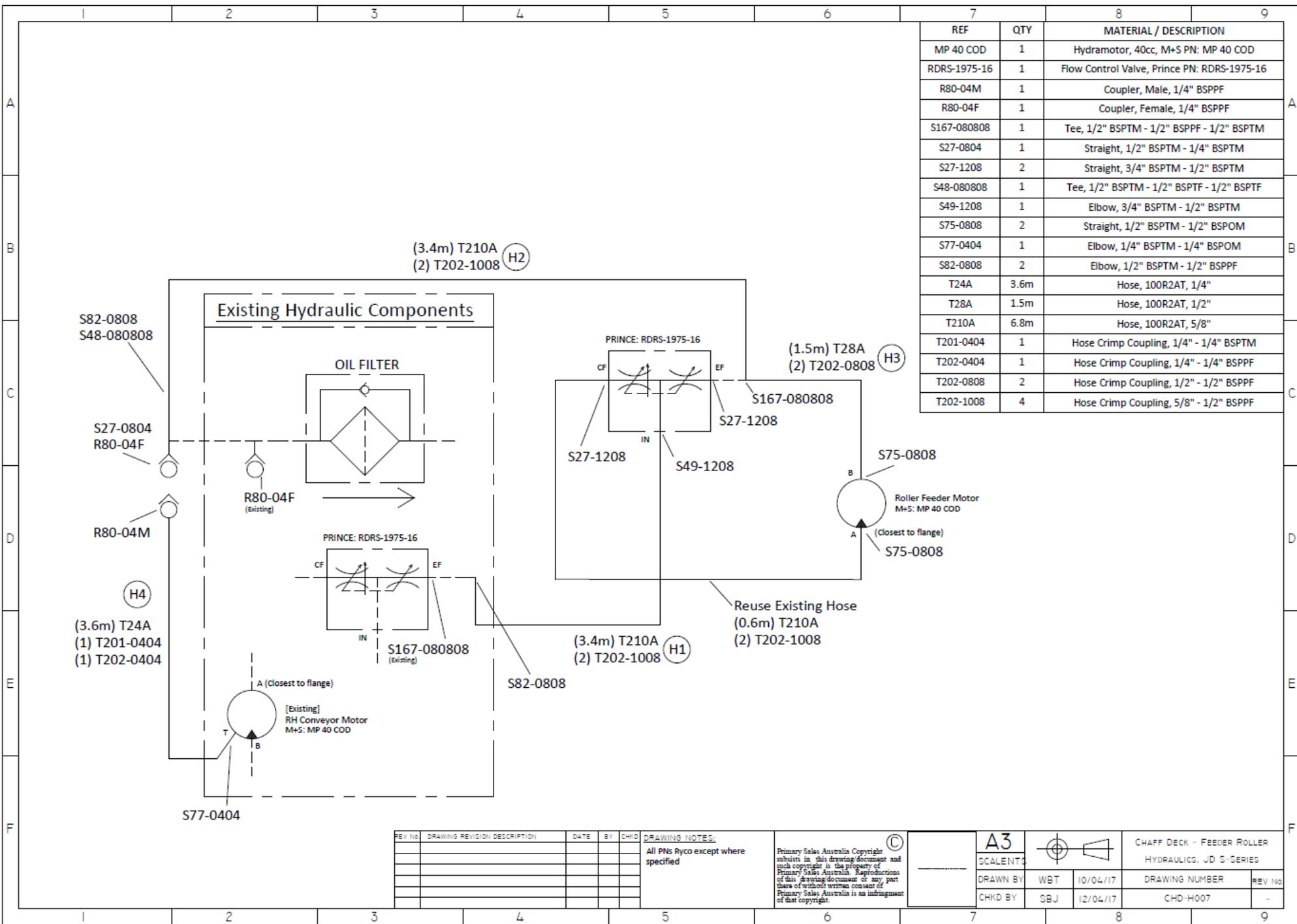
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TITLE	ASSEMBLY	REVISION(S)

Installing Hydraulics





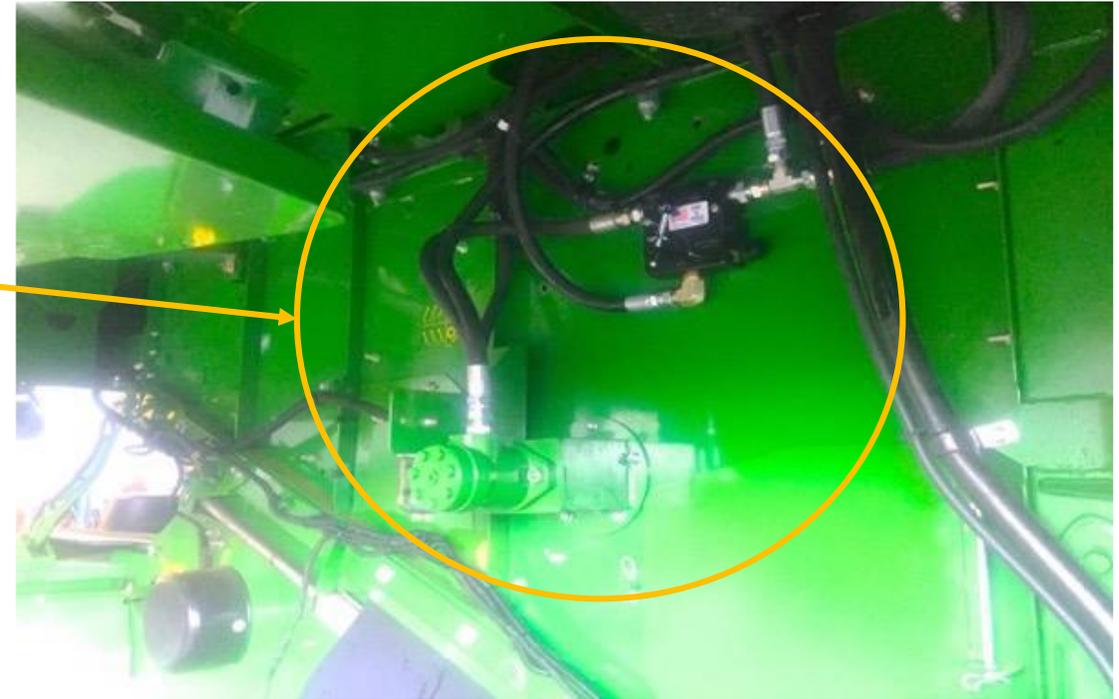
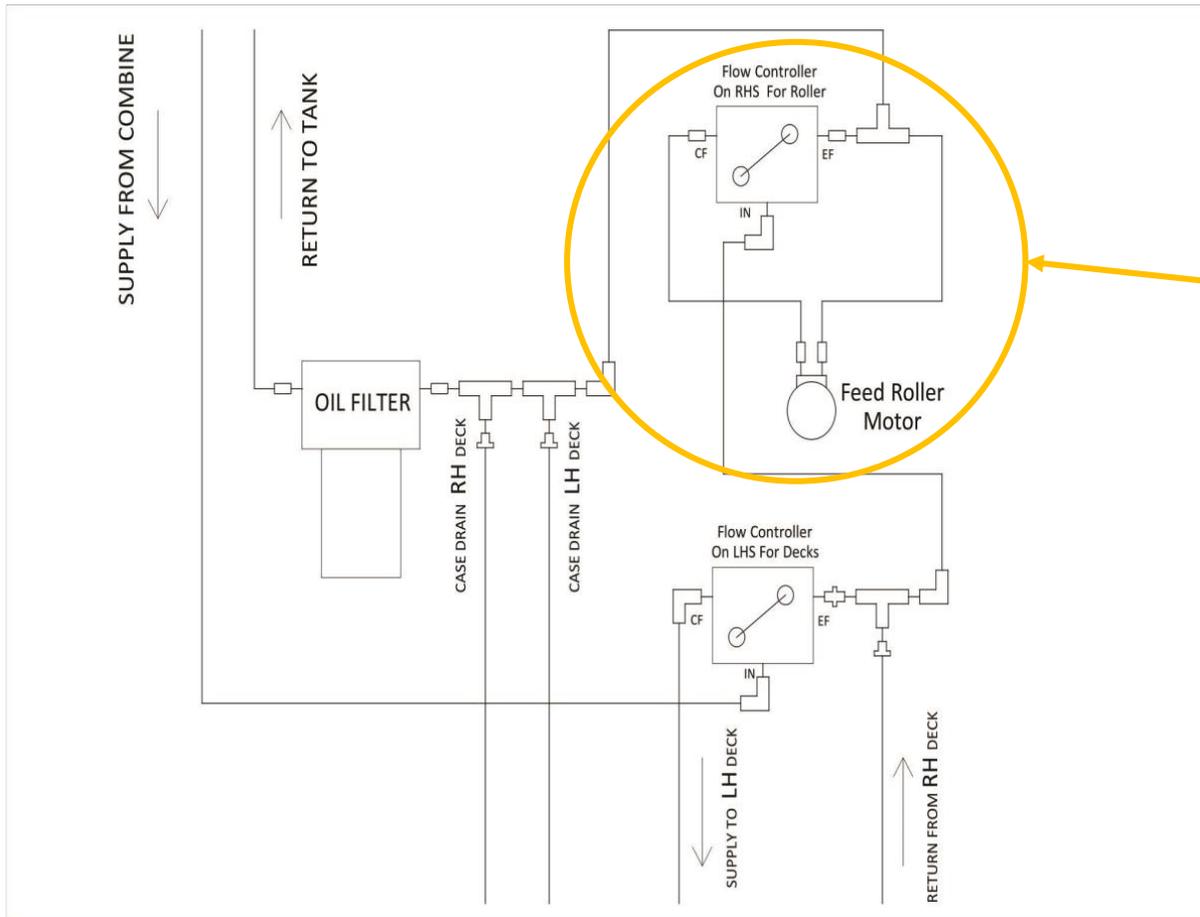
REF	QTY	MATERIAL / DESCRIPTION
MP 40 COD	1	Hydrmotor, 40cc, M+S PN: MP 40 COD
RDRS-1975-16	1	Flow Control Valve, Prince PN: RDRS-1975-16
R80-04M	1	Coupler, Male, 1/4" BSPPF
R80-04F	1	Coupler, Female, 1/4" BSPPF
S167-080808	1	Tee, 1/2" BSPTM - 1/2" BSPPF - 1/2" BSPTM
S27-0804	1	Straight, 1/2" BSPTM - 1/4" BSPTM
S27-1208	2	Straight, 3/4" BSPTM - 1/2" BSPTM
S48-080808	1	Tee, 1/2" BSPTM - 1/2" BSPTF - 1/2" BSPTF
S49-1208	1	Elbow, 3/4" BSPTM - 1/2" BSPTM
S75-0808	2	Straight, 1/2" BSPTM - 1/2" BSPOM
S77-0404	1	Elbow, 1/4" BSPTM - 1/4" BSPOM
S82-0808	2	Elbow, 1/2" BSPTM - 1/2" BSPPF
T24A	3.6m	Hose, 100R2AT, 1/4"
T28A	1.5m	Hose, 100R2AT, 1/2"
T210A	6.8m	Hose, 100R2AT, 5/8"
T201-0404	1	Hose Crimp Coupling, 1/4" - 1/4" BSPTM
T202-0404	1	Hose Crimp Coupling, 1/4" - 1/4" BSPPF
T202-0808	2	Hose Crimp Coupling, 1/2" - 1/2" BSPPF
T202-1008	4	Hose Crimp Coupling, 5/8" - 1/2" BSPPF

REV NO	DRAWING REVISION DESCRIPTION	DATE	BY	CHKD

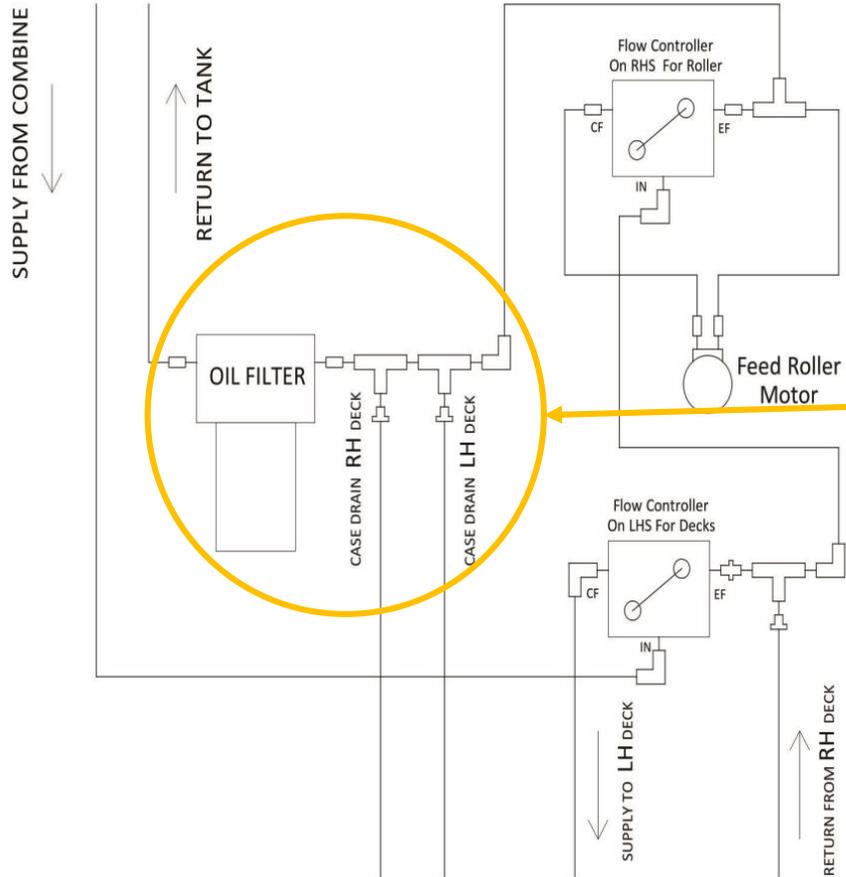
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A3	SCALED		CHAFF DECK - FEEDER ROLLER	
			HYDRAULICS, JD S-SERIES	
DRAWN BY	WBT	10/04/17	DRAWING NUMBER	REV NO
CHKD BY	SBJ	12/04/17	CHD-H007	-



Fit the tee as shown. Before drilling two 6.5mm holes to fit the valve, ensure the hoses are able to go past the bracket that is welded on the machine.



Run the two long hydraulic hoses over the engine, zip tie the hoses away from belts.

If there are existing EMAR Chaff decks, the short hose which is moved from flow control to the filter head will be reused on the RHS flow control. It goes from CF to Hydraulic motor. Add an additional case drain to the RHS decks.

Installing Electrics



2017 wiring harness have two extra pin plugs. Plug sensor into this.

Pre-2017 EMAR Chaff Deck – run 3mm twin core back to monitor.

Add one wire into B1 and the other into A IN3 or IN4 depending on version of Farmscan monitor as shown below.

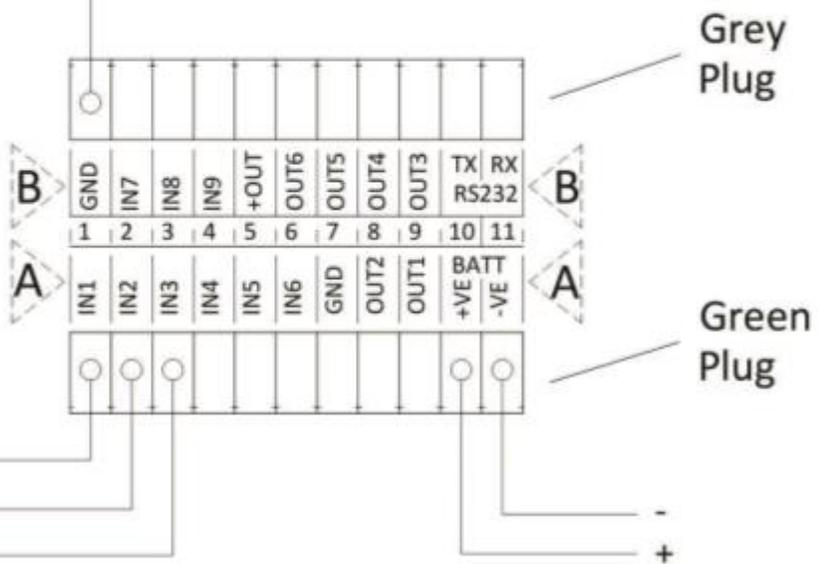
Then program monitor as per Farmscan instructions.

Set speed from 150rpm to 500rpm. It is recommend to run the roller around 300 – 350 rpm.

FARMSCAN MONITOR

JACKAL V1-V2

Common Deck Wires
Add 1x Roller Wire



FARMSCAN MONITOR

JACKAL V3

Common Deck Wires
Add 1 x Roller wire

