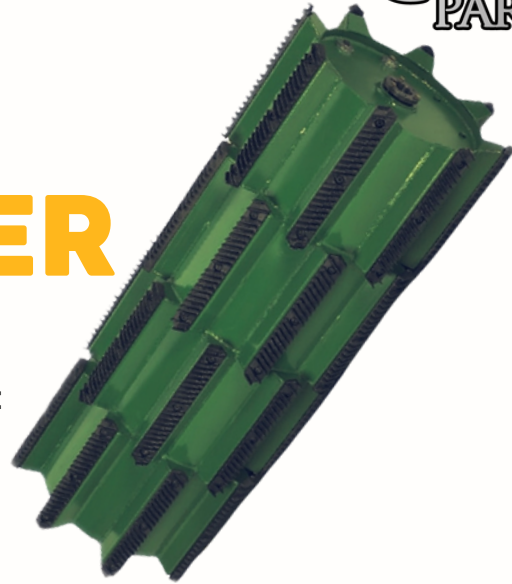


# HOW TO INSTALL JOHN DEERE GEN 2 H.I.E. CYLINDER



- Note cylinder drive end (marked with sticker). Drive end installed with be the right hand side of combine sitting in cab.
- Thoroughly clean shaft key-way (non-drive side) for easier installation.

**1** Remove right tire of combine and support axle.

**2** Remove pulleys, bearings, production cylinder and shaft. Check trueness of shaft.

**3** Remove front concave mounts allowing concave to lower for easier cylinder installation. Note: not doing so may require removal of some rasp bars for installation.

**4** Mark and remove cylinder sleeves. Install enclosed cylinder lining up to bearing housing holes on sidewall of combine.

**5** Slide shaft carefully through the cylinder hubs to the other end and install sleeves onto corresponding sides. You may wish to turn backing bolts into sleeve to maintain looseness on shaft until ready to tighten.

- Ensure proper measurement from inner race of bearing (with locking collar off) to outside end of splines are correct. See your service manual for this measurement. Insert bearings and tighten locking collar. Back off key sleeve (left side, opposite dirve end) and insert key into shaft keyway (step side downward). Reinsert sleeve being careful not to push key inside cylinder. Add backing bolts and insert sleeve bolts (finger tight).

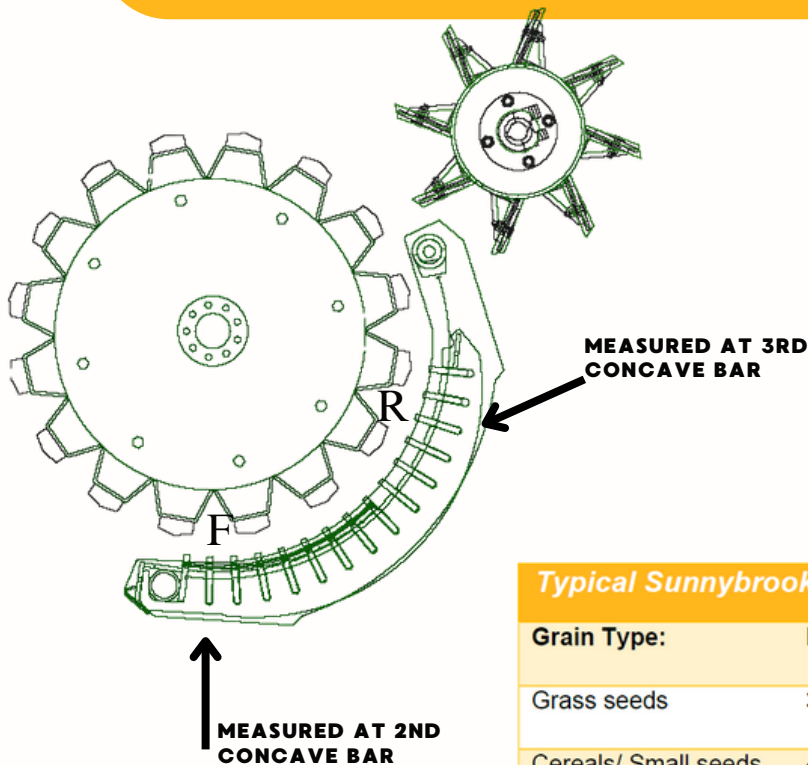
**6** Center cylinder in combine remove backing bolts and slowly tighten all sleeve bolts to 35 ft lbs. Alternately tighten each side to ensure cylinder stays centered in combine. Add silicone to seal key-way in sleeve nearest the drive side of combine (right side).

## NEED ASSISTANCE

780.789.3855  
info@sunnybrookwelding.com

# HOW TO INSTALL JOHN DEERE CYLINDER & CONCAVE SETTINGS

Cylinder geometry requires the back of the concave to be set at the below chart creating a wedge to the back to thresh out the crop effectively  
 The last 2 back bars on the concave are slightly set back to reduce any feedback over the cylinder and transition the crop to the back  
 These clearances will not be achievable by simple "in cab " adjustments of concave.



Optimum Cylinder speed is the maximum RPM that does not damage grain. Higher RPM's separate more effectively. Begin by setting the speed of your cylinder to a top speed that begins damaging grains, then immediately reduce the speed in 50RPM increments until damage no longer occurs, so that you are producing optimal results for your specific crop.

*Typical Sunnybrook Concave to Cylinder Initial Settings*

Grain Type:	Front (F) Setting	Rear (R) Setting
Grass seeds	3mm	0mm
Cereals/ Small seeds	4 - 5mm	3mm
Large seeds	10 - 12mm	6mm
Corn	15mm	12mm

**PLEASE NOTE: IT IS POSSIBLE FOR THE AGGRESSIVE LEADING EDGE OF THE RASP BAR TO DRAW THE UNTHRESHED MATERIAL OVER THE CONCAVE IF NOT PROPERLY SET FOR LARGER SEED CROPS.**

**NEED ASSISTANCE**

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