



## OPERATOR'S MANUAL



**High Performance Upgrade Kits  
For JD Combines**

# Installation Checklist

- **OEM Concaves Removal** (read through full instructions before beginning)
- **Auger Bed Bearing Support Changed**
- **Calmer Concaves Installed**
- **Level Concaves**
- **Calmer High Performance Combine Upgrade Kit Operating Instructions**
- **Troubleshooting**

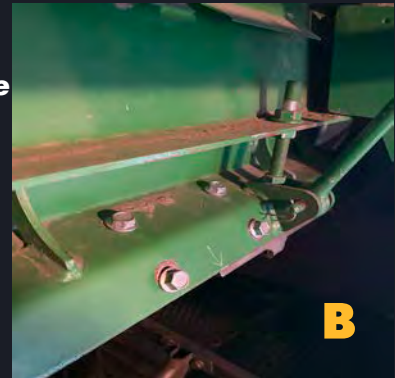
## Removing Your Old Concaves

1. From the cab, set concave clearance to 0.

2. Remove all 3 lock pins on RH side of concave.  
(image A)



3. Remove the mounting bolts on the LH side of concave #2 and #3 and remove both concaves. (image B)



# Before Installing Your Calmer Concaves

## 4. Remove rear auger bed bearing support.



**a. Each of the 4 auger bearing mounts must be removed. (8 bolts)**



**b. Each of the 2 auger bearing support upper mounting bolts must be removed. (4 bolts)**

## 5. Install the Calmer rear auger bed bearing support in reverse order of step #4.



# Installing Your Calmer Concaves

**6. Remove all cover plates and MOG limiting inserts from all 3 Calmer concaves. Remove bolts holding concaves together and discard. Remove mounting bolts and spacer from the RH side.**

**7. Install Calmer Enhanced Flow Concave in position #3.**

**a. Install mounting bolts, spacer and locking pin on RH side and mounting bolts on LH side. (do not overtighten spacer bolts)**



**8. Remove mounting bolts on concave #1 and remove this concave.**

**9. Install Calmer Enhanced Flow concave with transition cone into position #1.**

**a. Install mounting bolts, spacer and locking pin on RH side and mounting bolts on LH side.**



**10. Level the concaves by following the step-by-step instructions found in your combine owner's manual.**

# Installing Your Calmer Concaves (continued)

**11. Install Calmer Enhanced Flow concave in position #2.**

- a. If #2 concave doesn't fit between #1 & #3 concaves you may need to loosen the mounting bolts to slide concaves to accommodate each other.**
- b. Install mounting bolts, spacer and locking pin on RH side and mounting bolts on LH side.**
- c. Retighten all mounting bolts.**

**12. Calmer Enhanced Flow concaves have now been successfully installed.**

**Note: After installing your concaves reset your auger bed deflectors to recommended settings found on page 7 of the manual.**



## **¼ Wrap Cover Plate and ¼ Wrap MOG Limiting Insert Installation:**

**Note: Cover plates and MOG Limiting Inserts are divided into Lefts and Rights. Lefts are painted yellow, and the mounting rails are spaced out wide. The rights are painted silver, and the mounting rails are spaced narrower.**

- 1. Insert the pointed tabs of cover plates or inserts into the slotted receiver under the center of the concave.**
- 2. Push the top end of the cover plate/insert up toward the concave.**
- 3. Using the over center latch, clamp the cover plate/insert into place. (you may need to adjust the tension of the latch to make sure it over centers securely)**
- 4. Install lynch pin into the latch handle to lock the latch.**
- 5. Install square wire lock pin to lock the cover plate/insert to the center rail of concave for added safety.**

# Suggested Intial Settings

Crop	Cover Plates		MOG Limiters		Auger Bed Deflectors		Combine Settings				
	LH	RH	LH	RH	LH	RH	Concave	Rotor	Fan	Chaffer	Sieve
<b>Corn, Wet</b>	None	None	None	None	3/4 way up	Full up	25	340-450	1050-1200	18-22	18-20
<b>Corn, Dry</b>	None	None	None	None	3/4 way up	Full up	25-30	290-350	1050-1150	18-20	18-20
<b>Soybeans, Green Stem</b>	#1	#1 & #2	#2-#6	#3 - #6	3/4 way up	Full up	10	580-620	1000-1100	12-15	5-10
<b>Soybeans, Dry</b>	None	#1 & #2	All	#3 - #6	3/4 way up	Full up	10-15	550-600	1050-1100	18-20	8-18
<b>Wheat</b>	None	#1	All	#2 - #6	3/4 way up	Full up	1-4	750-800	950-1000	10-15	2-6
<b>Wheat, Hard Threshing</b>	#1	#1 & #2	#2-#6	#3 - #6	3/4 way up	Full up	1-4	750-800	950-1000	10-15	2-6

# Trouble Shooting

Our farmers who were involved with testing have created some simple troubleshooting solutions for common problems.

Crop	Problem	Cause	Solution
<b>Soybeans, Wheat, Other Small Grains</b>	<b>Unthreshed pods</b>	<b>Pods not retained long enough to thresh</b>	<b>Remove MOG limiters in the #1 concave and add more cover plates</b>
	<b>Rotor loss or damaged grain</b>	<b>Overthreshing</b>	<b>Remove cover plates in the #1 and add more Mog limiting inserts</b>
	<b>Rotor Loss</b>	<b>Rotor congestion</b>	<b>Remove cover plates in the #1 concave and add more MOG limiting inserts in #6 left and right side</b>
	<b>Seive loss/ excessive tailing</b>	<b>Overloaded cleaning system</b>	<b>Ensure all concaves have cover plates MOG limiters. Adjust auger bed deflectors to evenly distribute material to chaffer</b>

# Trouble Shooting

Our farmers who were involved with testing have created some simple troubleshooting solutions for common problems.

<b>Crop</b>	<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
<b>Corn</b>	<b>Unthreshed grain</b>	<b>Rotor not aggressive enough</b>	<b>Tighten concave clearance or increase rotor speed</b>
	<b>Damaged grain</b>	<b>Overthreshing</b>	<b>Open concave or decrease rotor speed</b>
	<b>Rotor Loss</b>	<b>Rotor congestion</b>	<b>Speed up rotor, tighten concave, or decrease ground speed</b>
	<b>Seive loss/ excessive tailings</b>	<b>Overloaded cleaning system</b>	<b>Open bottom seive, open top seive, decrease fan speed</b>



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