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## **OPERATOR'S MANUAL**



***HIGH PERFORMANCE CONCAVE UPGRADE KIT  
For Case IH\* Mid-Range and Legacy Series Combines***

# Installation Checklist

- **OEM Concaves Removal** (read through full instructions before beginning)
- **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. **Loosen eye bolts on double pipe clamp 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)**



# Installing Your Calmer Concaves

4. **Remove all cover plates and MOG limiting inserts from all 3 Calmer concaves.**
5. **Install Calmer Enhanced Flow Concave in position #3.**
  - a. **Install mounting bolts on LH side.**
6. **Remove mounting bolts on concave #1 and remove this concave.**
7. **Install Calmer Enhanced Flow concave with transition cone into position #1.**
  - a. **Install mounting bolts on LH side.**
8. **Level the concaves by following the step-by-step instructions found in your combine owner's manual.**



# Installing Your Calmer Concaves (continued)

9. **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 on LH side.**
  - c. **Tighten eye bolts on double pipe clamp on RH side of concaves.**
  - d. **Retighten all mounting bolts on RH side of concave.**
10. **Calmer Enhanced Flow concaves have now been successfully installed.**



# **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 red, and the mounting rails are spaced out wide. The rights are painted white, 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 conave for added safety.**

# Calmer High Performance Combine Upgrade Kit Operating Instructions: Case IH Legacy/Mid-Range

| Crop                    | Cover Plates |         |         | MOG Limiters |                  | Concave |            | Rear Transport Vein Position |
|-------------------------|--------------|---------|---------|--------------|------------------|---------|------------|------------------------------|
|                         | LH           | RH      | LH      | RH           | Mid-Range/Legacy | Chaffer | Sieve      |                              |
| Corn, Wet               | None         | None    | None    | None         | 18-25 / 2.8-3.5  | 15-20   | 20/Open    | Slow                         |
| Corn, Dry               | None         | None    | None    | None         | 20-30 / 3-3.8    | 18-20   | 20/Open    | Slow-Mid                     |
| Soybeans, Green Stem    | #1 & #2      | #1 & #2 | #3 - #6 | #3 - #6      | 15-25 / 3-4      | 10-15   | 15-20/Open | Fast                         |
| Soybeans, Dry           | None         | #1 & #2 | All     | #3 - #6      | 15-20 / 3.5-4    | 10-20   | 20/Open    | Fast-Mid                     |
| Wheat *                 | None         | #1      | All     | #2 - #6      | 5-15 / 1-2       | 8-15    | 10-15      | Fast-Mid                     |
| Wheat, Hard Threshing * | #1           | #1 & #2 | #2 - #6 | #3 - #6      | 5-15 / 1-3       | 8-16    | 10-16      | Fast-Mid                     |

\* For wheat it is recommended to install slotted grates in the separating area of the rotor to reduce sieve loss and/or tailings

# Trouble Shooting: Covers and Inserts

*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>  |
|-------------|---------------------------------|-----------------------------|--|
|             | Unthreshed grain                | Rotor not aggressive enough | Tighten concave clearance or increase rotor speed                              |
|             | Damaged grain                   | Overthreshing               | Open concave or decrease rotor speed   |
| <b>Corn</b> | Rotor loss                      | Rotor congestion            | Place transport veins in the slow position, speed up rotor, or tighten concave |
|             | Sieve loss / excessive tailings | Overloaded cleaning system  | Open bottom sieve, open top sieve, decrease fan speed                          |

## Trouble Shooting (continue)

| Crop   | Problem                         | Cause                                   | Solution  |
|--|---------------------------------|---|---|
| <b>Soybeans,<br/>Wheat, Other<br/>Small Grains</b> | Unthreshed pods in sample       | Pods not retained long enough to thresh | Remove MOG limiters in the #1 concave and add more cover plates                                       |
|  | Damaged grain                   | Overthreshing                           | Remove cover plates in the #1 concave and replace with MOG limiting inserts                           |
|  | Rotor loss                      | Rotor congestion                        | Remove cover plates in the #1 concave and replace with MOG limiting inserts in #6 left and right side |
|  | Sieve loss / excessive tailings | Overloaded cleaning system              | Ensure all concaves have recommended cover plates / MOG limiters                                      |



*"Thank you for purchasing Calmer Products to improve your corn head and residue management capabilities on your farm."*

**Marion Calmer**

CEO – Calmer

President – Calmer Ag Research Center

Owner/Operator – Calmer Farms



**P.O. Box 9 | Alpha, IL 61413 | (309) 629-9000 | fax (309) 629-9001**  
**[www.CalmerCornHeads.com](http://www.CalmerCornHeads.com)**

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