



# MAD CONCAVES INSTALLATION GUIDE

New Holland CR Series/Large Rotor Combines





# Bushel Plus

## MAD Concaves

### Thank you for choosing Bushel Plus MAD Concaves!

We understand the issues farmers face when it comes to rotor loss, grain quality, and the difficult process of installing and removing heavy, awkward concaves – we've been there!

MAD Concaves™ are designed by farmers for farmers. We define success as helping you achieve the highest levels of yield and quality possible, while increasing your efficiency and profitability through our innovative concaves.

# GETTING STARTED

## DISCLAIMER

- Please read instructions in full before beginning the install process.
- Ensure proper personal protective equipment (PPE) is worn at all times. This includes CSA approved steel-toe boots, gloves, goggles, pants, and a long sleeve shirt.
- Refer to the manufacturer's operation and service manuals for information on specific calibration and installation/removal procedures.
- When removing and installing concaves, ensure proper lifting techniques are used.

## How MAD Concaves for New Holland Combines Work

Swapping out traditional round wire combine concaves for our innovative bar-and-grate style modular MAD Concaves™ results in more efficient threshing, getting your grain out of the head and into the hopper quicker for decreased rotor loss and less dockage. This means higher quality crops and more money in your pocket.

In addition to increased quality and reduced loss, our fast and easy-to-change modular designs allow you to quickly swap out inserts in minutes. Therefore, you'll save valuable time, which is critical in a busy harvest season.



Changing concaves now means to only change out three "concave inserts" (black) per frame.

A modular frame (yellow) replaces the original concave, fits into the original concave position in the combine, and always stays in place.



# INSTALLATION PROCESS

## Tools Required

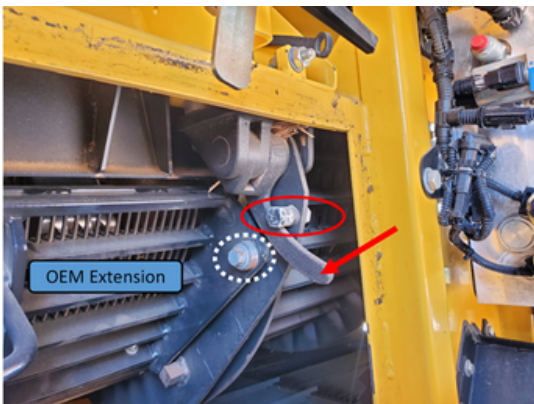
- Socket sets (metric and imperial)
- Torque wrench

## Concave Removal and Installation

**Note: Cleanliness is important during the installation process. Keep all existing hardware (bolts, etc.) for install of MAD Concaves but use new nuts.**

**Step 1:** Removal of existing concave.

- Open the concave clearance to about 1" opening.
- Remove existing concave extension (extension bolt marked with white circle in picture) before you take the bolt out that locks the latches (explained in next step). (marked with red circle in picture).

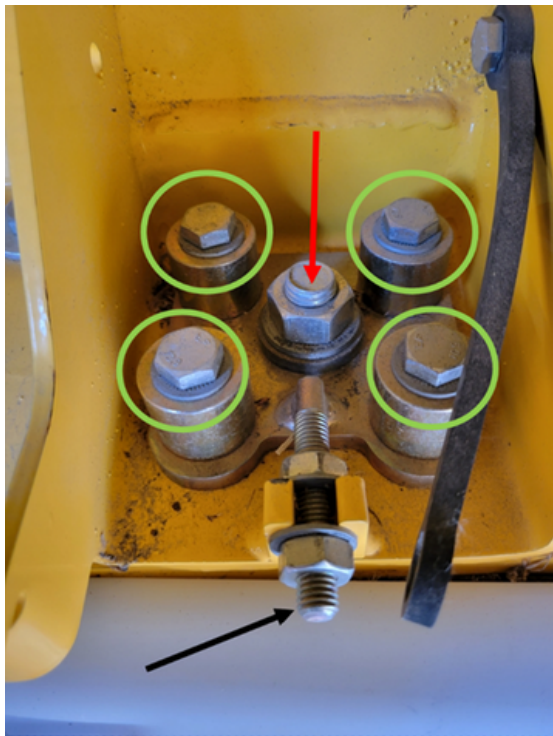


- Remove the bolts (marked with red circle) that lock the latch handles (marked with red arrow - two per concave) which hold the concave up in place and then lift the latches up and attach the rubber strap to hold them up and out of the way. Be careful, because once the latches are open the concave is "free" on this side to slide down out of the latch lock and can come down towards the grain pan.
- Pry OEM concave down and pull it safely out of combine.

## Installation Continued

### Step 2 - Install MAD Concaves

- Clean the two inner jaws that the concave hangs on inside the middle of the combine.
- Clean the two locks with the latches that secure the concave.
- Install MAD Concave NH frame into inner jaws (middle of combine). If you are unable to easily latch the concave frame, refer to steps **a-g** below.
  - a. Above the latches (details in picture):
  - b. Loosen the nut (do not take nut off bolt!) that requires a 24mm socket above the latch (marked with red arrow in picture) .
  - c. Loosen (do not take nut off bolt!) the 4 bolts that require a 16mm socket above the latches to be able to move the bracket which is attached to the latches. (Marked with green circles in picture).
  - d. Loosen the jam nuts on the adjuster bolt. (Marked with black arrow)
  - e. IMPORTANT – Ensure latches can move freely back and forth.
  - f. Install MAD Concave frame onto jaws.
  - g. Latch MAD Concave frame



- Install MAD Concave inserts in 2nd position leaving out 1st position MAD Concave (this will make calibrating easier).
- Repeat all prior steps for the other side of the combine.
- Adjust the concave positions of both sides up to ¼" clearance using combine monitor. Then refer to combine user manual / manufacturer's operator manual for calibration procedure of concave clearance. We suggest to calibrate to a ¼" clearance.
- After calibration is complete, tighten all latch bolts.
- Install front concave into MAD concave frame (1st position).
- Install concave extension which has two settings/ holes (inwards – hard thresh, outwards – easy thresh). (inwards for hard thresh wheat, outward whole for all other crops)

### **Step 3 - Calibration (zero out the concave)**

To calibrate, refer to the combine user manual/operator's service manual.




## **OUR GUARANTEE**

Your MAD Concaves have a 12-month guarantee against all defects in materials and workmanship; excluding damage from foreign objects and normal wear of operation.

### **Questions? We're happy to answer them.**

Contact your local Bushel Plus dealer or reach out to one of our specialists.

### **Bushel Plus Contact Information**

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