

Copperhead Concave Systems, LLC.

Installation Manual

Case 88 Series Machines

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Case IH Checklist

- Concaves Installed
- Concaves Leveled
- Appropriate Cover Plates On/Open
- Disrupters Spaced Correctly
- Disrupters Torqued to Specs
- Rice Spike Bars Installed

Installing Your Concaves

You can find instructions for installing your concaves in your machine manual, they install just like the factory concaves. Please read the full instructions before completing install. It is useful to leave the #3 concave out of the machine while installing disrupter bars. We recommend installing the #1 and #3 sections, leveling your concaves, then completing the install with the final #2 section.

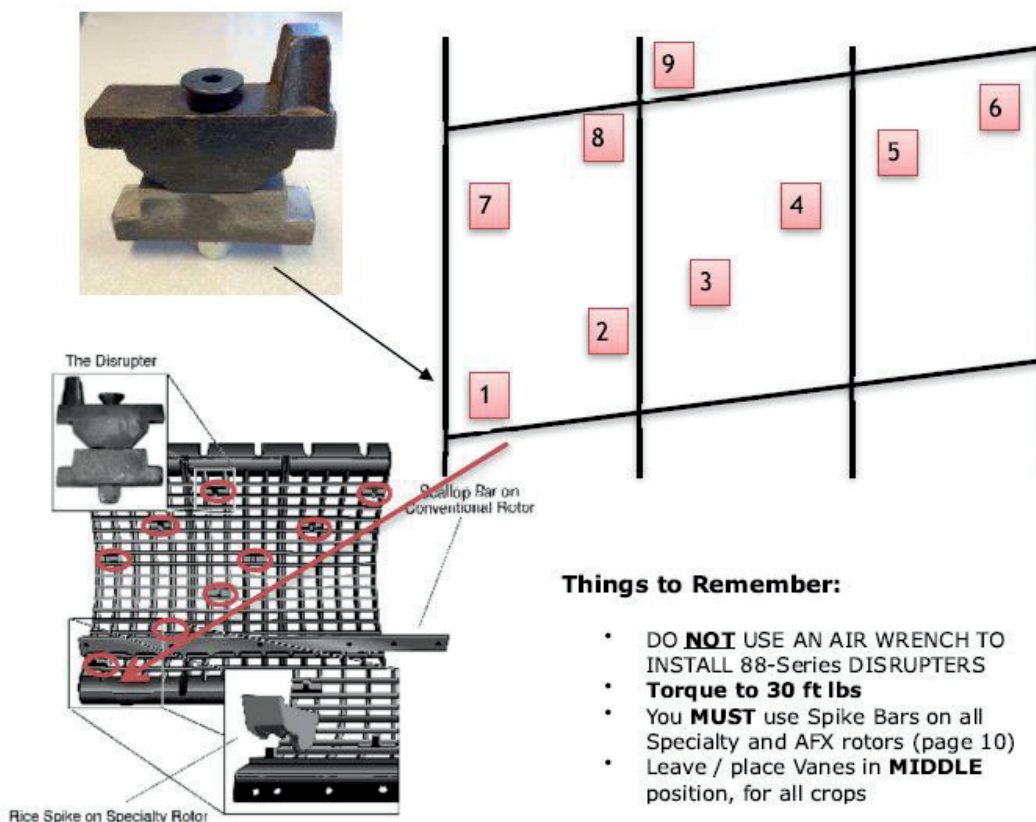
Leveling Your Concaves

You **MUST** level your concaves when installing any concave system.

We recommend following the instructions in your platform owner's manual.

Case IH 88 Series **DISTRUPTORS**

1. Remove the key-stock grates from your machine and place them on the floor of the left side of the combine
2. Number them #1 - Front Grate, #2 Middle Grate, #3 Rear Grate
3. Draw an imaginary line from the Left Front to the Right rear of the set, and place 6 disruptor lugs (2 in each grate) on that imaginary line.
4. Repeat this process 12 inches further to the middle of the machine on the same diagonal, using three more lugs. You will have 2 in the Front Grate, and 1 in the Middle Grate. **You may place the spike toward the front or the back of the machine.**



Things to Remember:

- DO **NOT** USE AN AIR WRENCH TO INSTALL 88-Series DISRUPTERS
- **Torque to 30 ft lbs**
- You **MUST** use Spike Bars on all Specialty and AFX rotors (page 10)
- Leave / place Vanes in **MIDDLE** position, for all crops



Specialty/ AFX/ Flagship Rotor - Spike bar installation

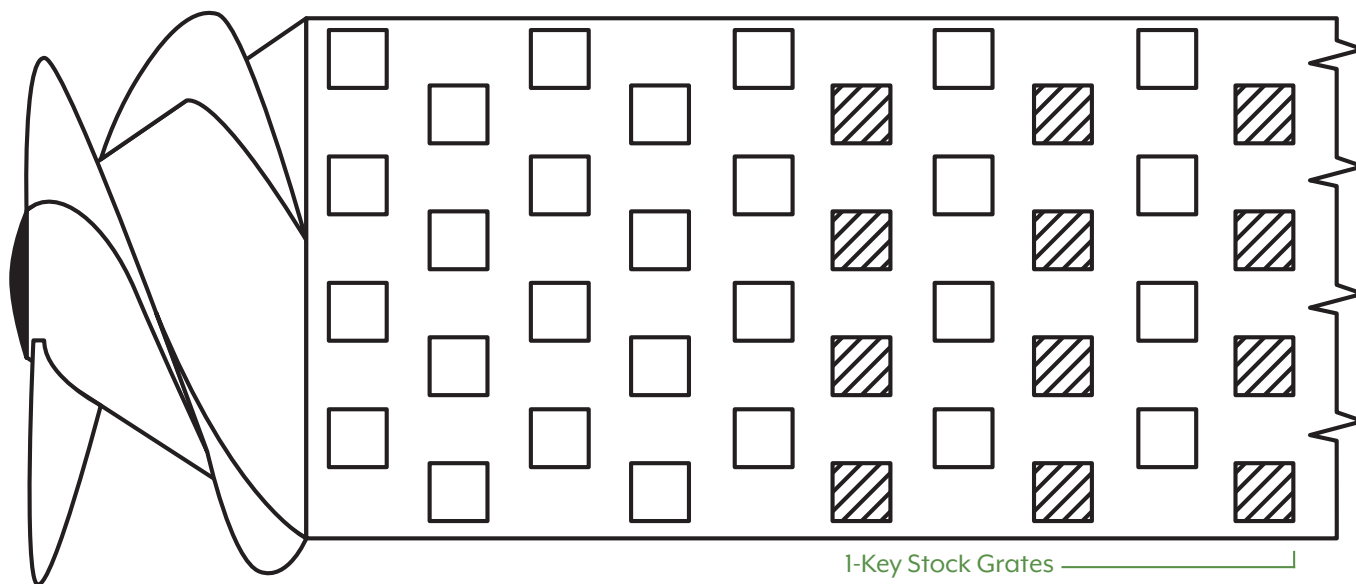
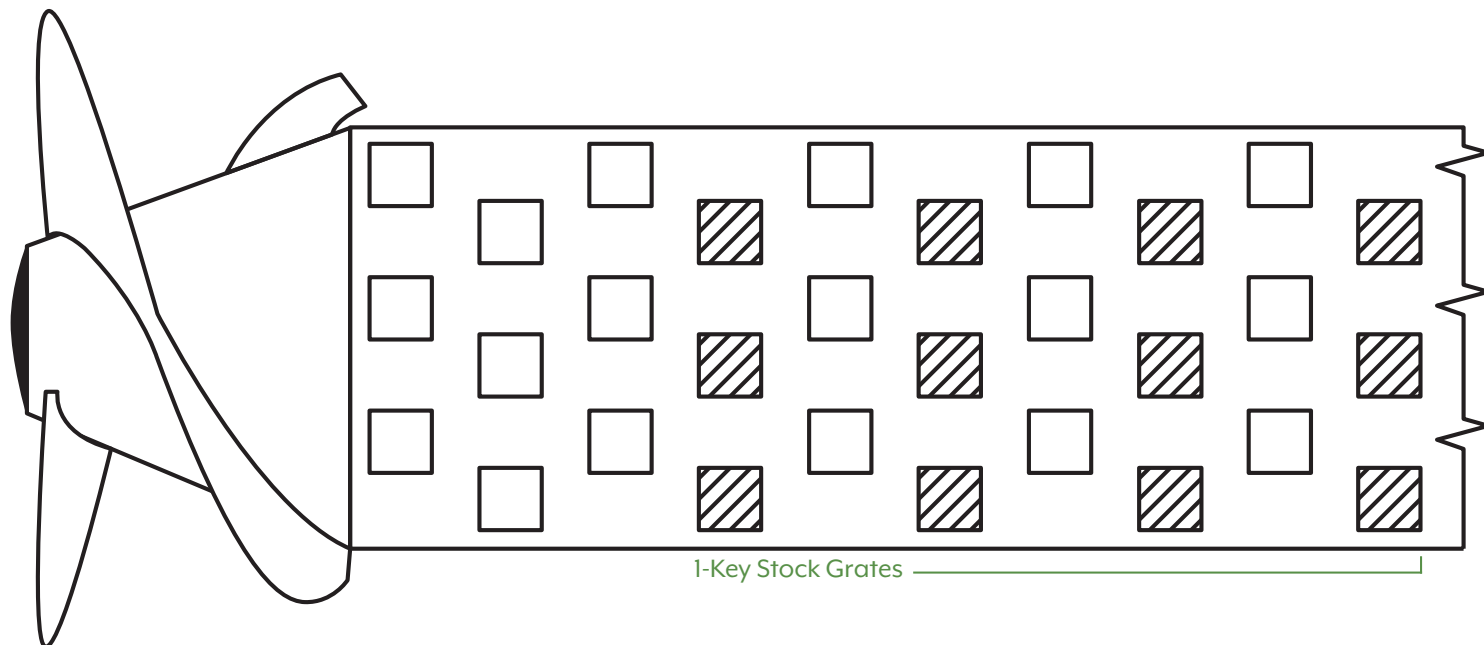
Spike bars are necessary in the separation section, over the key-stock grates in all Case IH machines. They pass by the disrupters and knock any grain loose out of trash that is caught by the disrupter.

They are packaged in a group of 12. They will be installed in groups of 3 or 4 equally weighted bars depending on your rotor. Use OEM hardware to install them in the locations as described below. The rotor must be equally weighted on each circle, so if you replace one bar in a circle you must replace all of them. Start with the first circle in the separation section (**Do not install spike rasp bars over the concaves for our applications**) install a bar on each location in that circle. Then skip one circle and install on the 3rd circle in the separation section. Do this until you are out of bars or are unable to replace a full circle. It would be better to have bars left over than to have an unbalanced rotor!

Specs for install: Tighten all bolts and torque to **(95 to 105 foot pounds)**. After installing bars and torquing the bolts, start the combine and SLOWLY engage the rotor. Slowly increase the rotor speed up to your highest expected threshing speed and let it run for at least five minutes. Disengage the rotor and stop the machine. Then go back through all spike rasp bars and re-check the torque value on each bar that was replaced. Do follow all manufacturers instructions on balancing and adjusting the rotor to ensure safe and efficient operation.



RICE SPIKE MOUNTING INSTRUCTIONS



LEGEND

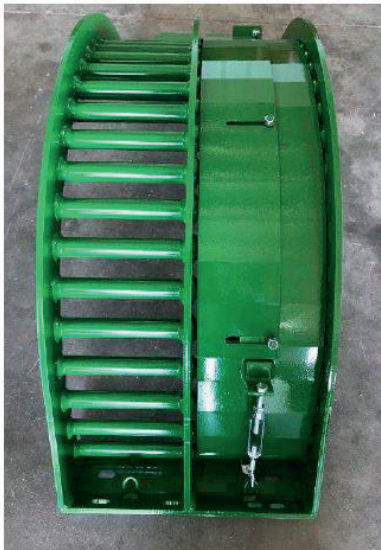
 RICE SPIKES

Installing Cover Plates

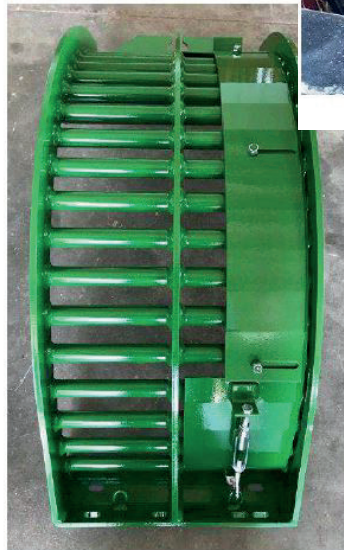
- Cover plates keep the crop that is being harvested in the threshing area longer
- Cover plates lessen the area that the crop has to fall through.

RULE OF THUMB: The harder the crop is to thresh, the longer the crop needs to be in the threshing section (First two concaves). As soon as it is threshed, then we want to unload the grain. Following is a starter point for several crops. If your crop is not listed, use a similar grain size for a starting point. If the crop is not threshing fully, close or add cover plates as needed.

Cover plate examples:



JD - COVER PLATE CLOSED



JD - COVER PLATE OPEN



CASE IH FLAGSHIP - 2 COVER PLATES OPEN

Combine Settings

Crop	Concave	Rotor Speed	Fan Speed	Chaffer	Sieve
Corn	22-28	230-325	850-1000	18-20	10-12
Wheat	2-10	950-1300	1250-1350	15-19	4-9
Soybeans	8-18	500-750	900-1000	15-18	6-11
Milo	13-25	450-750	1100-1350	13-18	5-8
Rice	10-20	600-850	1050-1200	11-18	4-8
Rye	5-20	650-900	1000-1300	15-19	5-7
Popcorn	15-25	200-325	1100-1400	14-18	5-8
Grass Seed	5-14	450-900	500-850	11-18	2-9
Beans (Edible)	20-30	200-350	1100-1300	13-19	6-10

Cover Plate Settings

Crop	Cover Plate 1	Cover Plate 2	Cover Plate 3
Corn	Removed	Removed	Removed
Soybeans	Open	Open	Removed
Milo/Sorghum/Maise	Open	Open	Removed
Rice	Open	Open	Removed
Beans (Edible)	Open	Open	Removed
Wheat	Open	Open	Open
Rye Grass/Blue Grass	Closed	Closed	Open
Hard Wheat	Closed	Closed	Open



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