

Suggested Corn settings for Flagship

Round Bar-*(RB)

Concaves: Left hand side #1- RB. Left hand #2- RB. #1 Right hand concave- Large wire. #2 right hand concave- RB. This setup is a factory option. In High Yielding corn, ok to use a RB in #1 right side, however be aware could overload sieves on the RH side. Very Good set up for both dry and wet corn.

Grate Area: Use Large Skip Wire in grate area. (* See note at the end with using the new RB)

Rotor Configuration: Recommend standard rotor rasp bar configuration. Normal AFX Rotor with 8 spike bars on rear half with 4 straight bars used at the rear of the rotor – grate area. May use four additional straight bars for very high yielding corn.* (See below picture)*

Cage Vanes: All (9 vanes) in Slow position, front to back. Reduces rotor loss, especially important with higher yields. Also helps get kernels off the cob in tough conditions. (*May also Increase HP requirement)

Rotor Speed: Base line is **380 RPM**. Operator's manual suggests 350 to 400 RPM. Use 1st range for rotor gear box.

Concave Clearance: Base line is **25 mm**. Can be at 18 mm with a spongy cob. The width of a cob should just fit between the rasp bar and the pinch point. This is the most critical adjustment for corn. The idea is to roll the ears through the rotor and not tumble them with too wide of a setting. Too wide of a setting will tumble the ears and cause excessive sieve load with broken cobs.

Pre Sieve: Louver opening should be thickness of a corn seed or **3/8 inch** – 4th notch, perhaps 5th notch. (If you ever get grain in the cleaning fan, chances are you have the pre-sieve too wide.) We only want 10% of the grain to go through the pre sieve. **Use the 1 5/8" Closz Sieve.**

Chaffer Sieve: Baselines setting is **14 mm**. Close down sieve if bits of cob in sample. **1 5/8" Closz or 1 5/8" Corn Sieve** will work.

Shoe Sieve: Base line setting is **18 mm**. Keep the bottom sieve open more than the top sieve. **1 5/8" Closz Sieve is used. The 1 1/8" Sieve used for small grains is not recommended.** This has less capacity due to hole opening. Pic below. Will have to use a wider settings if used.

Suggested Corn settings for Flagship

Continued....

Round Bar-*(RB)

Fan Speed: Base line is **1050 RPM**

Chopper: Low Speed (always drop stationary knives for low speed. Never chop in in low speed.)

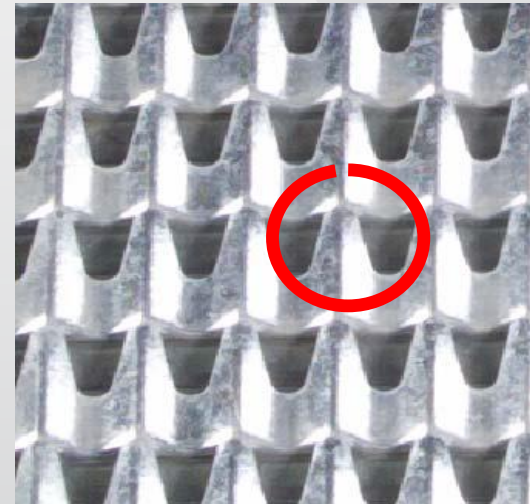
Residue Spreaders: Adjust speed on residue spreader fans so cobs are thrown to the width of the head. If you have 30 series and newer flagship combine, adjust the mass distributor down (divider) to a wider opening so cobs can get through.

Elevator Speed: **Low speed.** Recommend that the Clean Grain Elevator is set to the high side on the pulleys **IF** harvesting higher than **4500 bu/hr consistently** and moisture is above 25%. (Reason is: the clean grain auger has to turn fast enough to take away high yielding corn, so it does not build up in auger trough. Low side will have less grain damage and still do a good job under 4500 bu/hr throughput

1 1/8" Sieve (Not Recommended for Corn)

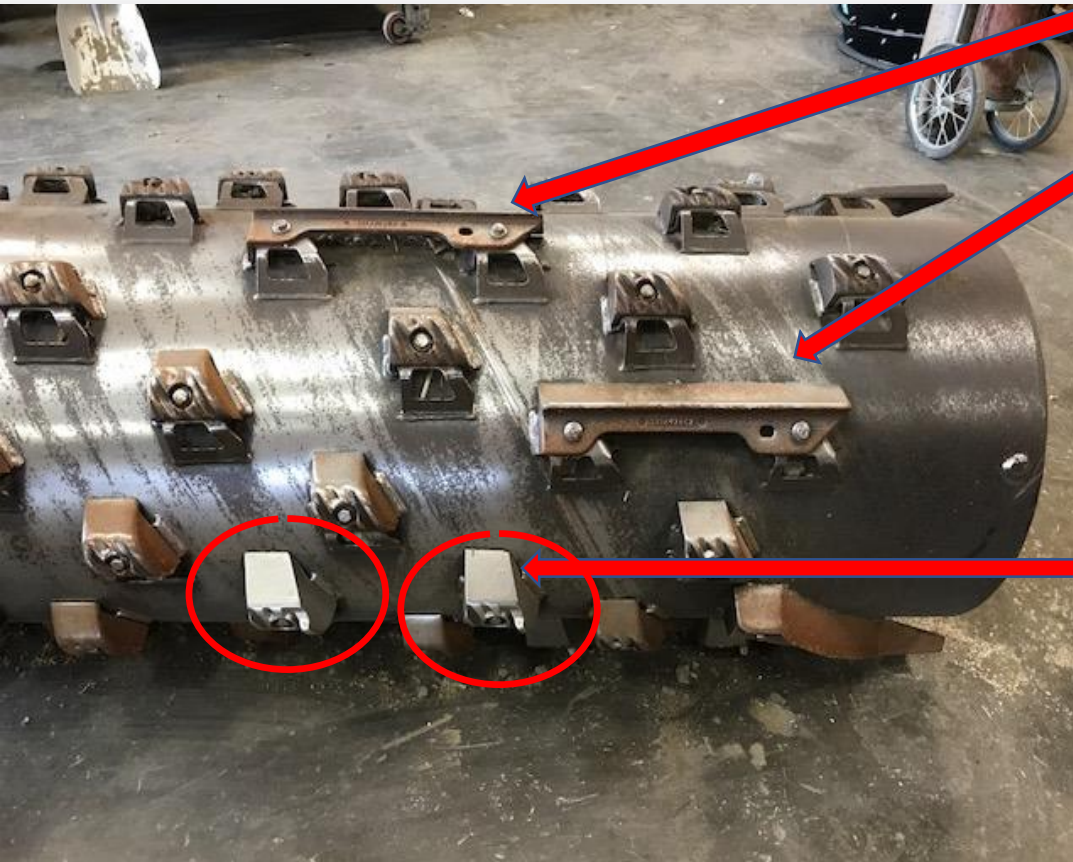


1 5/8" Closz Sieve



Rotor Configurations

Suggested Rotor setup



Location of the Straight Separator bars, leading into each other. Total of four is used. p/n-1318976C2
Could also have spiked rasp bars here.

*Location of the spiked rasp bars, p/n-278820A5. Total of 8 is used. A straight separator bar could also be installed here, adding 4 **more** bars for high yielding corn.

Harvesting Kits for FS Combines

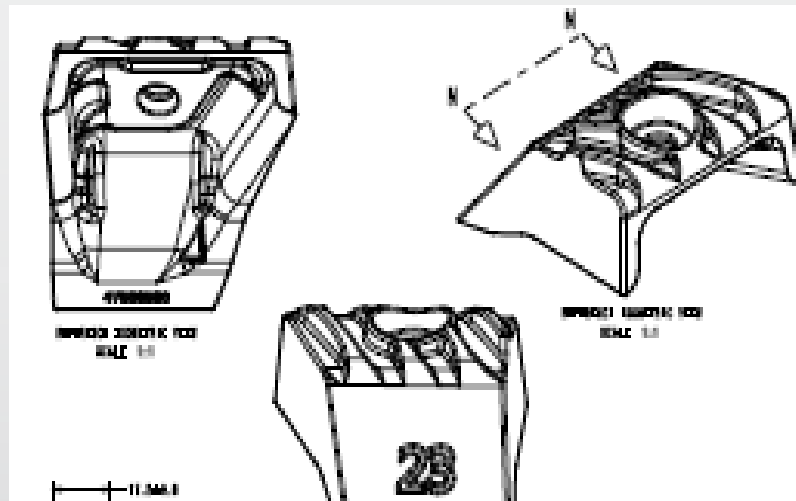
****Round bar 25mm Grates-** These are new this year and purpose of these grates is to have less or eliminate the hair pinning of the straw. These grates are placed in the grate section where the Large skip wire were used. Recommend that two on the left and two on the right are used. We have had good results in both Corn and especially in Soybeans where the Fungicide has been sprayed which can leave green stems. The spacing between the bars is 25mm. Not recommended in place of the concaves. The Kit number is 51508475.



25mm spacing

Harvesting Kits for FS Combines

23 degree Rasp Bar kits for High Yielding corn. The 23 degree rasp bars will slow the crop speed to provide additional separation. These bars would be placed over the Concave area only. The part # for the individual 23 degree bar is **47506580**. The kit # is **48080563**.

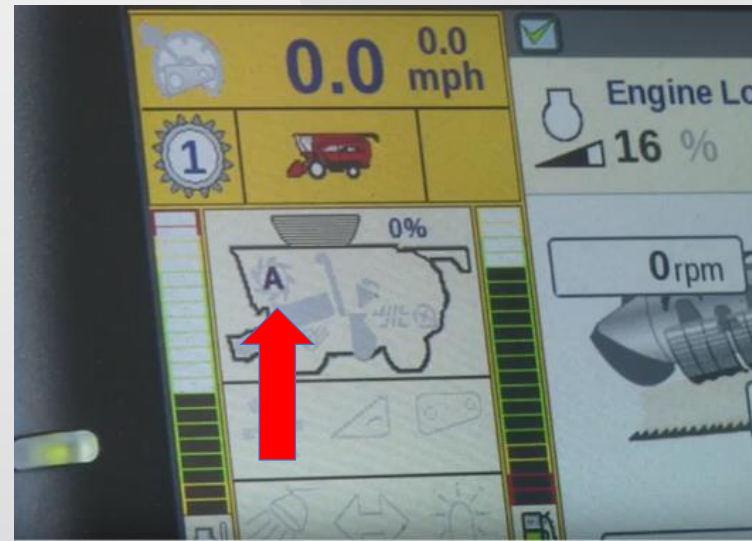


250 Series only- Automation tips

For the 250 Series Combines only, Harvest Command Automation quick set up below- Can be engaged while harvesting, however recommend harvesting at least 4 minutes which will automatically calibrate the sensitives.

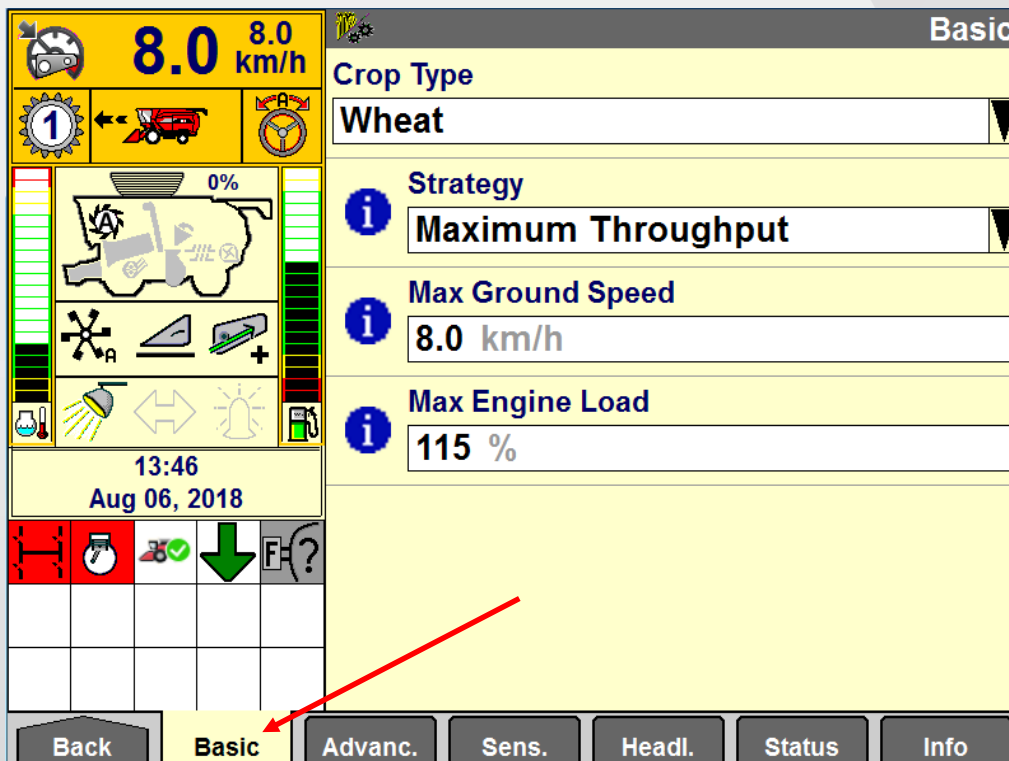
To Begin-

1. Enable Automation by pressing the top of the Automation switch. The letter "A" will display in the Icon below.



250 Series only Automation tips

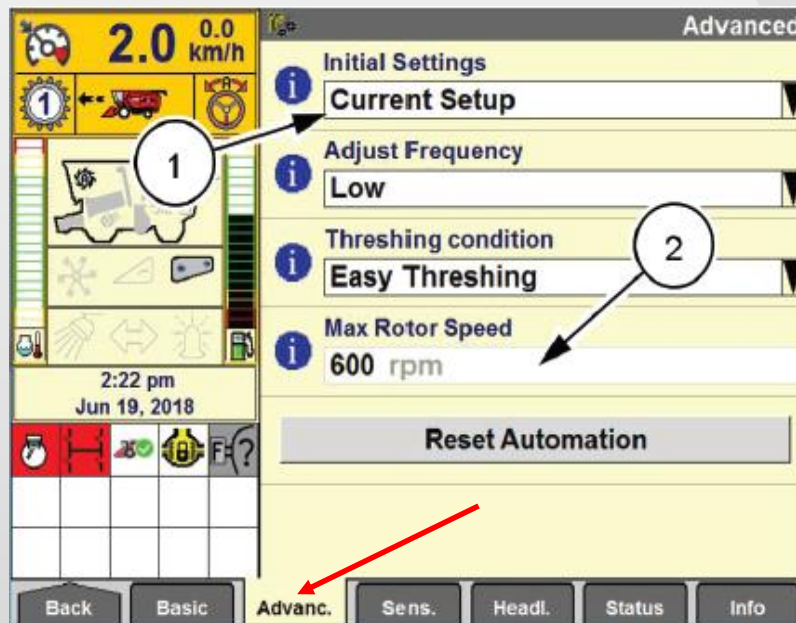
2. After selecting the Automation tab, make sure the Crop type, Strategy, Max ground speed and Max engine load is set. This section is found in the Basic Tab. See pic below.
- Suggested **Strategy** is Performance mode. The priority in this mode is to reduce losses.
 - Suggested **Max Ground** speed-depending on field conditions, 4.5 mph is a good start place.
 - Suggested **Max Engine Load**- 105%. This allows a cushion to recover in tough conditions.



250 Series only Automation tips

3. Select the advanced tab

- Suggested Initial settings set to **Current Setup**. This will use the current settings such as the recommended settings, when Automation is activated, therefore allowing the Automation to automate to those settings.
- Suggested Adjust Frequency setting set to **Medium**. This setting will take 20 seconds before changes are made.
- Suggested Threshing condition set to **Medium**. This will adjust the Cage vanes depending on rotor loss.
- Suggested Max Rotor speed, set to crop type. Corn 420 and Soybeans 720 rpm.



250 Series only Automation tips

4. Use the Feed rate, be sure to use this mode when using the Automation. Sometimes this is called “Cruise Control” which allows the Combine to vary the ground speed automatically while optimizing the settings.
 - a) While harvesting for at least 4 minutes under a consistent crop load and the speed you want, engage the FeedRate by pressing and holding the Feedrate button for 2 seconds. An audible beep will sound as well as an icon on the display. At this point, it is activated.
 - b) To increase/decrease the ground speed, press and hold the shift button located at the front of the handle, then use the -/+ feeder up/down to speed up or slow down. This will reset your target set point every time this is pushed.
 - c) To disengage the FeedRate when unloading, move the handle back or forward. To reengage, press the Feedrate button once, it is now activated again.



250 Series only Automation tips

5. The Automation can be fine-tuned if need be. Use the funnels to change the sensitivities. Also, refer to the operator's manual for further explanations of the sensitivities. Make sure to harvest at least 4 minutes to calibrate the sensitivities.

