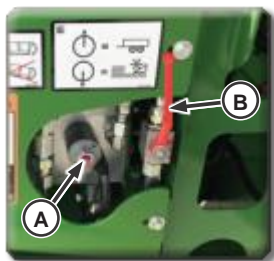




Trailing Setting on Trailer

1. While in the Height Sensing mode (set point 2 or 3) adjust the header Ground Condition to Very Firm.

- Refer to Complete In Combine Setup step 2.



2. Retract and lower the reel.
3. Retract the gauge wheels.
4. Disconnect from the head.
5. Set the head on the trailer.
6. Push in and rotate both left and right Wing Manual Override Valves (A) counter-clockwise to allow wings to sit down into the wing frame cradles.
7. Ensure the left and right Safety Wing Lock Ball Valves (B) are open/vertical.
8. Secure the head to the trailer.

- Wing Manual Override should remain open during transport.
- Safety Wing Lock Ball Valve should remain open during transport.

Removing from Trailer

1. Push in and rotate both left and right Wing Manual Override Valves clockwise to hold the wings in position.

2. Lift the head and remove from the trailer.

Limp Home Mode

- Limp Home Mode should only be used when the header or head sensors are damaged.
- If Limp Home Mode becomes necessary a DTC alerts the operator.
- For off-the-ground cutting.

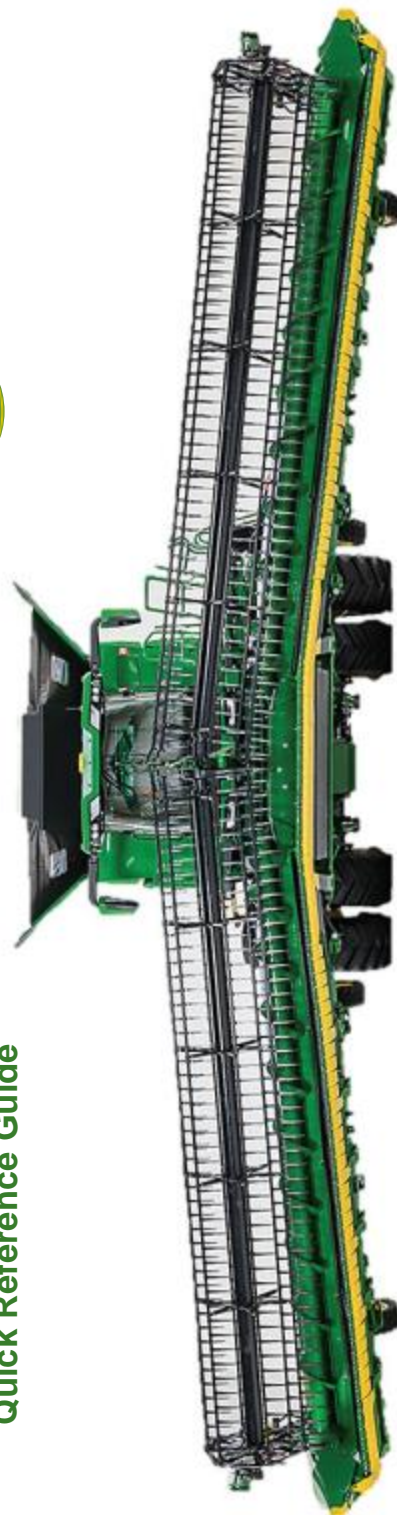
1. Fully retract the gauge wheels.
 2. Run in Height Resume, refer to Complete In Combine Setup step 2, but turn off Height Sensing.
- Wings remain locked to prevent damage. Performance is reduced.

IMPORTANT: Do not cut on the ground in Limp Home Mode or Height Resume Mode. Damage to the head may occur.



JOHN DEERE

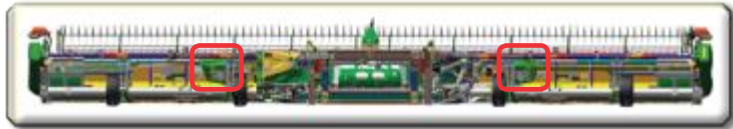
HDxxR Hinged Drapers Quick Reference Guide



**HDxxR Hinged Drapers are compatible
with John Deere S-Series and X Series Combines**

Refer to this guide for basic setup and adjustments.

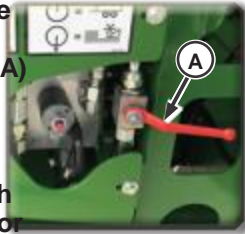
Safety Information



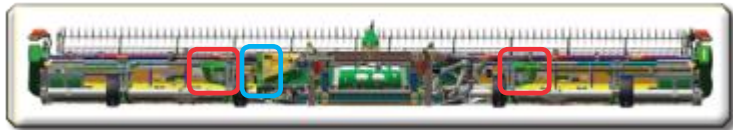
CAUTION: Do not go under the head without the left and right safety Wing Lock Ball Valves (A) locked—in the horizontal position.

There can be stored hydraulic energy in the header, even with the combine off, wings down, or header not attached to the combine.

- Discharge the system for service via the Header Suspension Service Mode—Refer to the Operator's Manual.

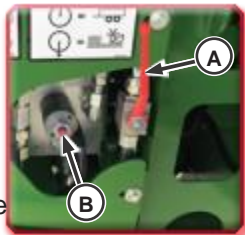


Start Up Guide



Complete Out-of-Combine Checks:

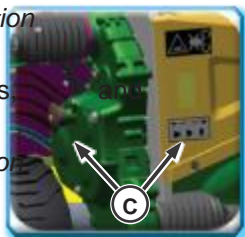
1. Left and right Safety Wing Lock Ball Valves (A) are unlocked/vertical.
2. Left and right Wing Manual Override Valves (B) are rotated clockwise.
3. Fully connected to the combine.
4. Ensure that the Center Feed gear case (C) is engaged.



Refer to Adjustments—Center Feed section for speed recommendations.

5. Check the top auger speed, fingers stripper clearance (if equipped).

Refer to Adjustments—Top Augers section for recommendations.



Complete In Combine Setup:



1. Complete the following calibrations (first combine).
 - Feeder House Raise Speed
 - Feeder House Lateral Tilt Speed

Troubleshooting

If ... Hinged Draper does not show in the header type box in the Header App.

- Check the head to combine connection.

If ... Wing(s) lower to full frown when raised.

- Ensure that both manual wing override valves are locked, rotated clockwise—refer to Complete Out-of-Combine Checks, step 2.
- Once locked, set the head down on level ground to return the wings to the flat position.

If ... Wing(s) do not unlock when entering cut.

- Check that the safety wing lock ball valves are unlocked—refer to Complete Out of Combine Checks, step 1.
- Ensure that the correct Header Automation settings are enabled—refer to Complete In Combine Setup, step 2.
- Check active DTCs, refer to the combine Operator's Manual.

If ... Header raises out of cut.

- Run a more firm Ground Condition, Combine Setup, step 3d.
- If the issue continues, check the attachment frame sensors for damage, contact your local dealer for assistance.

If ... Ground Conditions options are grayed out.

- Ensure that the correct Header Automation settings are enabled—refer to Complete In Combine Setup, step 2.
- Ensure that the Height Sensing mode is enabled, refer to Complete In Combine Setup, step 3b.
- Check active DTCs, refer to the combine Operator's Manual.
- **Perform the following calibrations:**
 - Header
 - Gauge Wheel Range
 - Wing Position
- Report the issue to the dealer.

If ... Head performance is unsatisfactory at all of the Ground Condition settings.

- Contact Deere support for instructions on how to use the Advanced Tuning screen.

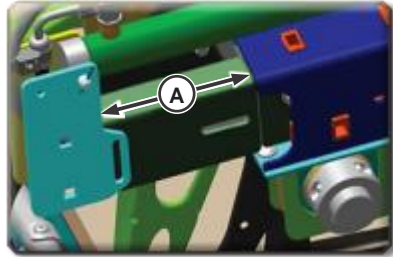
- Advanced Tuning Reset button returns the system to the factory default settings.

Adjustments—Reel (continued)

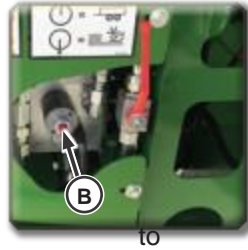
Check Reel to Cutterbar Clearance

- Check the reel to cutterbar clearance when:
 - Fingers are getting cut by the cutterbar.
 - Reel does not have enough crop engagement.

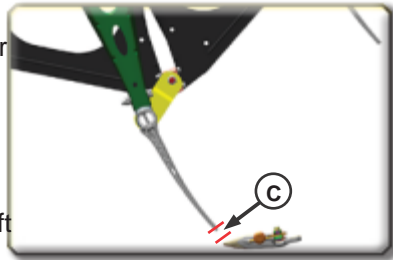
1. Set the head on the ground and fully lower the reel.
2. Move the reel fore/aft to the position shown (A). 170 mm (6-11/16 in) between stop and the saddle bracket.



3. Push in and rotate the left and right Wing Manual Override Valves (B) counter-clockwise.
4. Raise the head until the wings are no longer supported by the ground.



5. At the hinges (Red), the distance from the reel finger tip to the knife tip should be 15 mm (9/16 in) (C).
6. At the outer most fingers (Blue), the distance from the finger to the knife should be 70 mm (2-3/4 in).



7. Adjust if needed, refer to the Operator's Manual for instructions.
8. Lower the head to the ground so that the wings are in the flat position.
9. Push in and rotate the left and right Wing Manual Override Valves clockwise.



Red = 15 mm (9/16 in)

Blue = 45mm (2-3/4 in)

Calibrations

- Additional calibrations are required after the replacement of a position sensor or head controller.

NOTE: Sensor linkages are non-adjustable.

2. Select the Automatic Header Controls settings.

To Header App

Turn ON these Header Automation settings.

- Height Resume
- Height Sensing
- Lateral Tilt

These Resume Preferences are recommended.

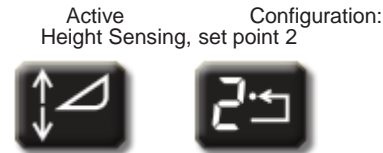
- Fore/Aft Resume
- Reel Position Resume
- Auto Reel Speed
- Auto Belt Speed

Resume—returns to the set position, set up in the next step.

Auto Speed—adjusts relative to the ground speed.

3. Set one or more Automatic Header Height

- a. Turn on the Header Engage switch.
- b. Press header activation button 2 on the multi-function lever.
 - Ensure that these icons are on the corner post display.



the

- c. Set the knife cut height. For off-ground—Cut Height Encoder (A) controls gauge wheel position. For on-ground—gauge wheel fully retracted.
- d. Select Ground Conditions, Typical is recommended to start.
 - *Primary Ground Conditions are optimized for off-ground or on-ground cutting, based on the gauge wheel position.*



Header App

Down Force

Adjust the amount of down force the header will apply to the ground for on-ground and off-ground cutting. Refer to help for additional information.

Very Light

Light

Typical

Heavy

Very Heavy

Off Ground

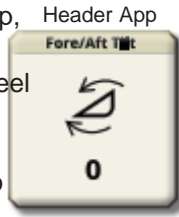
On Ground

Advanced Tuning

- e. Press header activation button 1 or raise header to save Cut Height and Ground Conditions.
- f. Press header activation button 2 on the multi-function lever.

Set Up Guide (continued)

- g. If Fore/Aft Resume is on in the Header App, set Fore/Aft Tilt to 0 (if equipped).
- h. If Reel Position Resume is on, move the reel to the desired harvest position.
- i. Press and hold header activation button 2 on the multi-function lever for 5 seconds to save Fore/Aft Tilt and Reel position.
- j. Repeat steps from (b), with header activation button 3 to save a different header harvest configuration.
4. Head is ready to Harvest.



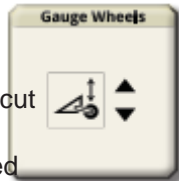
Things to Remember:

- Ground Conditions are stored to the Auto Control Buttons (button 2 or 3).
- Ground Conditions can only be changed in the Height Sensing Mode. Ground Conditions are greyed out at all other times.

Controls

Off Ground

- Gauge Wheels position sets and controls cut height.
- Gauge Wheels controls the direction based on the cylinder length, not the cut height.
- Gauge Wheels controls:
 - Cut Height Encoder (A).
 - Gauge wheel button in the Header App.
 - Multi-function lever programmable buttons.
 - Program multi-function lever:
 - Press the lock button (B).
 - On the display, select the programmable button (C) or (D).
 - Select the Header (E).
 - Select Gauge Wheels.



On Ground

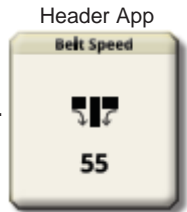
- Gauge wheels are fully retracted.
- Fore/Aft tilt can be used to adjust cut height.
- Cut Height Encoder moves gauges wheels, do not use while cutting on the ground.



IMPORTANT: Review Trailing section before transporting the head.

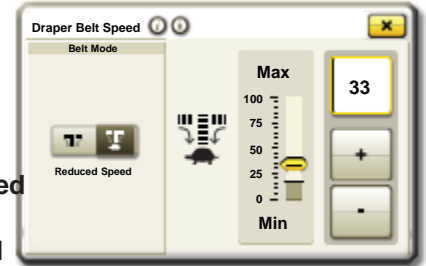
Belt Speed Controls

- Recommend starting the belt speed at 75.



Belt Speed Reduction Mode

- Slows the belt speed for cutting half a head width.
- Mode is manually turned off and on.



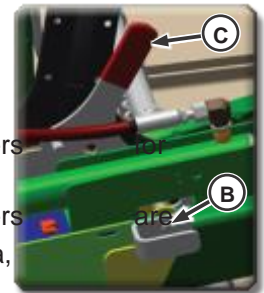
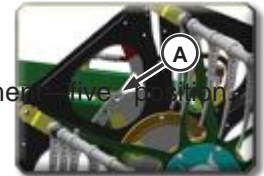
To activate the Belt Speed Reduction Mode:

- Select the Belt Speed in the Header App.
- Select the Reduced Speed Mode.

Reduced Speed Belt Mode Active

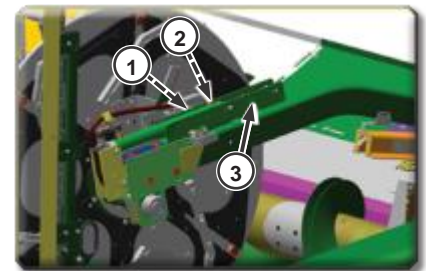
Adjustments—Reel Finger Pitch

- Finger pitch adjustment:
 - Remove clip (A).
 - Pull and rotate retaining pin (B).
 - Move the adjustment handle (C) to the desired position.
 - Replace clip.
 - Repeat on the other side.
- Middle position is the default.
- Use more aggressive fingers for crop, handle towards the cutterbar.
- Less aggressive fingers are recommended for oilseed rape and canola, handle away from the cutterbar.
 - Finger pitch adjustment changes the reel to cutterbar clearance. Check reel to cutterbar clearance.



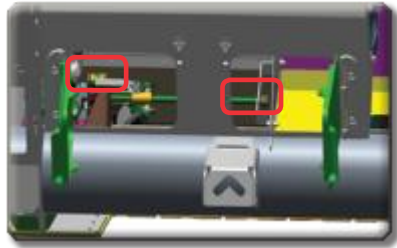
Reel—Fore/Aft

- Fore/Aft cylinder position.
- Position (2) is HDR harvest position.
- Positions (1) and (3) are factory shipping positions.



Belt Tension—Side Belt

- Side Belts (A).

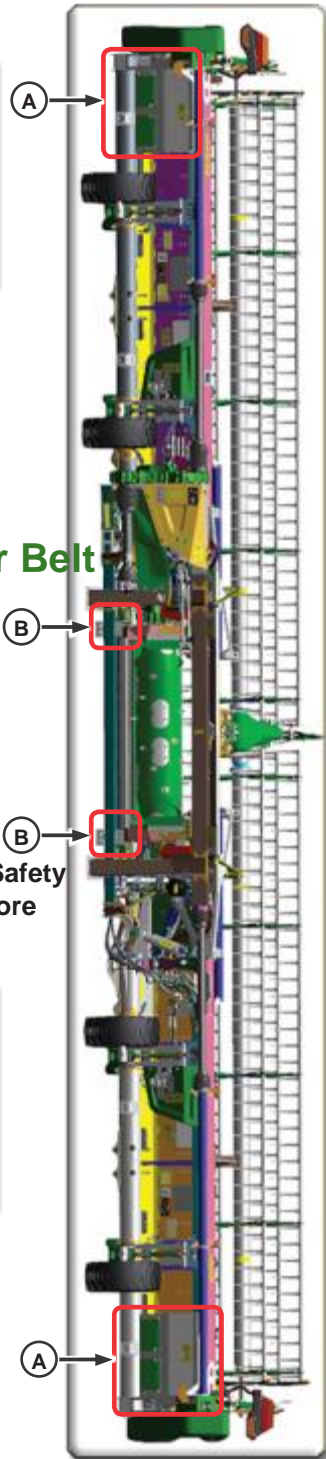
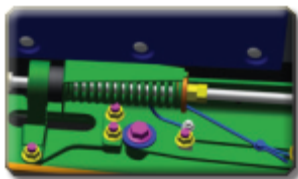
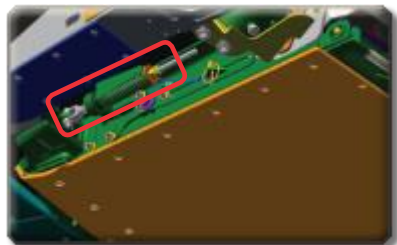


Belt Tension—Center Belt

- Center Belts (B).
- Center belt tensioners underneath the head.
- Tension must be adjusted on both sides of the center belt.



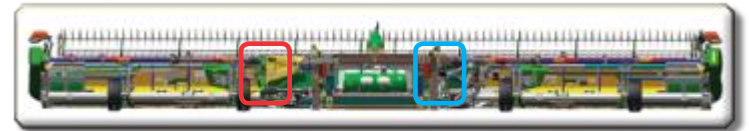
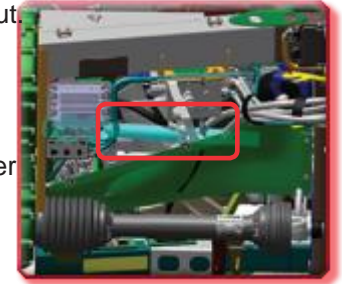
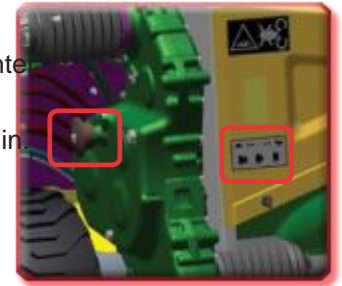
CAUTION: Review the Safety Information section before going under the head.



Adjustments—Center Feed

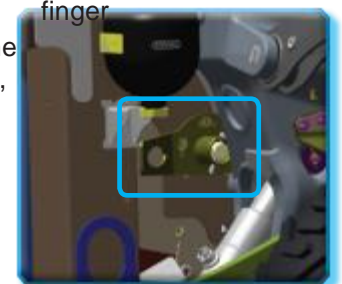
Center Feed Speed

- Two-speed gear case for center feed section.
- High speed = button pushed in.
- Recommended for small grains and high volume crops.
- Low speed = button pulled out.
- Recommended for soybeans and shatter prone crops.
- To Shift—slightly rotate center feed drive line manually.



Feed Drum Finger Pitch

- Rotate the handle clockwise to make the fingers more aggressive.
- More aggressive timing for low volume crops (wheat, lentils, flax).
- Rotate the handle counterclockwise to make the fingers less aggressive.
- Less aggressive timing for bulky, high volume crops (oilseed rape, canola, mustard seed).



To Adjust

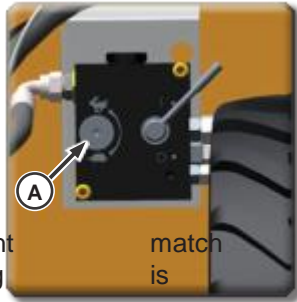
1. Loosen nuts.
2. Make adjustment.
3. Tighten nuts.
4. Shift center feed to neutral.

5. Ensure that the fingers do not contact rotation.

Adjustments—Top Augers

Top Auger Speed

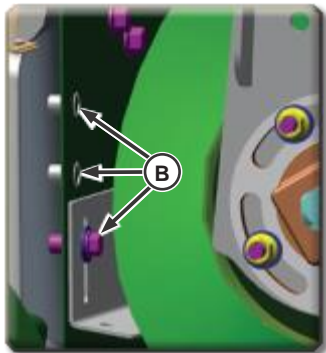
1. Watch the head from the front of the machine.
2. Compare the belt splice speed to the linear speed of the auger flighting.
3. Adjust the speed so that the belt splice and the auger flight speeds or the auger flighting slightly faster than the belt cleat speed.



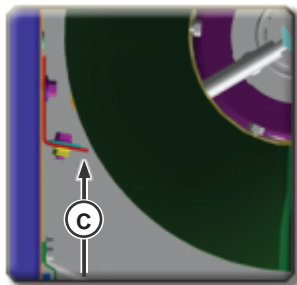
- The speed control knob (A) sets the speed of the auger relative to the speed of the side belts.



Top Auger Stripper Adjustment



- Adjust with the slot in the stripper and the three bolt positions (B).
- Stripper to flight distance should be set to approximately 5 mm (3/16 in) (C).

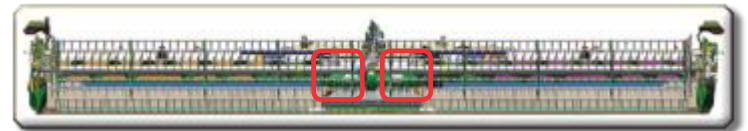
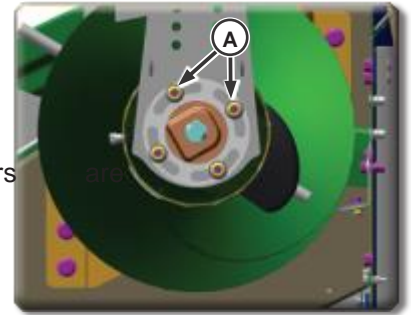


- Approximately 5 mm (3/16 in) gap is most important at the center of the machine, may vary along the auger length.

- After adjusting the stripper, check the finger timing.

Top Auger Finger Timing

- Adjust the timing by loosening the bolts (A) and turning the casting at the center of the head.
- Ensure that fingers fully retracted prior to crossing the stripper to avoid backfeed and wrapping.



When to Adjust Top Augers

- If wrapping or not releasing material well.
 - Check the stripper position and the
 - Adjust the auger position, contact your local dealer for instructions.
- If augers are not compressing material underneath and/or material is bridging over the auger.
 - Raise the auger position, contact your local dealer for instructions.
- Augers can be turned off when harvesting cereal grains that do not contact the augers.
 - If stopped augers are disturbing crop
 - Turn the auger on.
 - Check the auger relative to belt speed.
 - Adjust the auger position, contact your local dealer for instructions.

