CS770 Cotton Stripper Maintenance and Cleaning Guide

Introduction

At John Deere, we understand that every minute in the field is valuable during the harvest season. This guide is intended to provide a quick-reference overview of key adjustments, cleaning, maintenance, and operation of the cotton harvester.

IMPORTANT: *Regular and thorough cleaning of the machine combined with other routine maintenance procedures listed in the Operator's Manual greatly reduces the risk of fire, chance of costly downtime, and improves the machine's performance. Crop material and other debris can accumulate in various areas. Direction of wind can impact where and how much crop material and debris can accumulate. Be aware of harvest conditions and adjust your cleaning schedule to ensure proper machine function and to reduce the risk of fire. The machine may require more frequent cleaning, even multiple times per day, depending on harvest conditions. Inspect and clean these areas as needed throughout the harvest day.*

Table of Contents

Recommended hour interval indicator

Follow all safety procedures posted on the machine and in the Operator's Manual.

Additional information and videos are available at:

www.deere.com

Harvest Configuration

NOTE: Clean machine from top to bottom.

A. Clean the accumulator screens and the top of the RMB. Clean finger grates on cleaner inlet duct.

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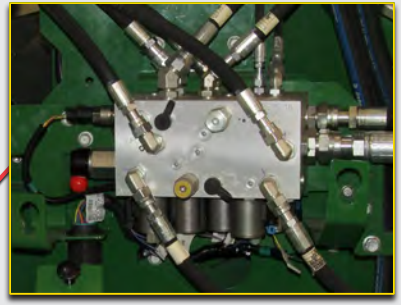
B. Clean behind cab, fuel tank, and air duct. Inspect cleaner saw drums and doffers. Clean rooftop.



D. Clean the RMB hydraulic valve block and gate lock valve.

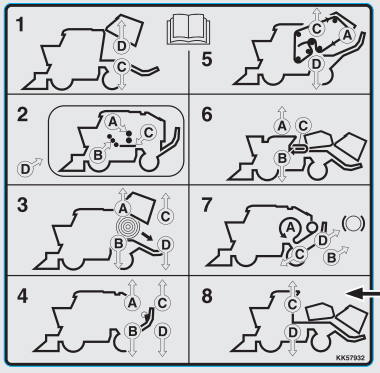
C. Clean under the accumulator and under the feeder belt.

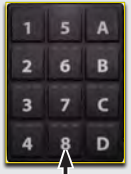
E. Clean the speed and position sensors and tone wheels (6 used).

Transport Configuration
Accumulator Raised

A. Clean front of RMB, including belt brush and RFID reader.

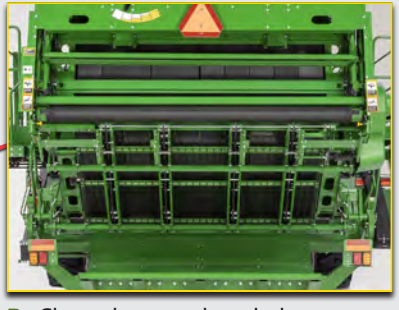
B. Check guard rollers for freedom of movement.





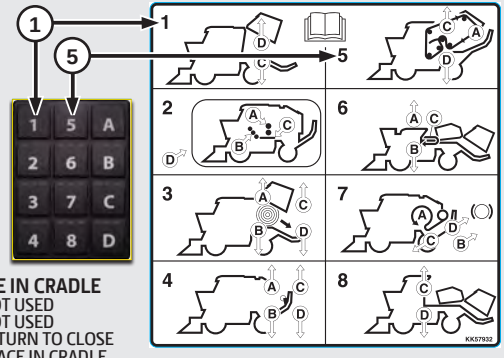
8 TRANSPORT MODE
A = NOT USED
B = NOT USED
C = HARVEST MODE
D = TRANSPORT MODE

C. Clean the platform, RMB latches, and module ramp.



D. Clean the wrap box, belts, pulleys, and wrap floor.

RMB Service Configuration:
Gate in Cradle



1 GATE IN CRADLE
A = NOT USED
B = NOT USED
C = RETURN TO CLOSE
D = PLACE IN CRADLE

5 SERVICE BELTS
A = RUN RMB
B = NOT USED
C = RAISE ROCKSHAFT
D = LOWER ROCKSHAFT

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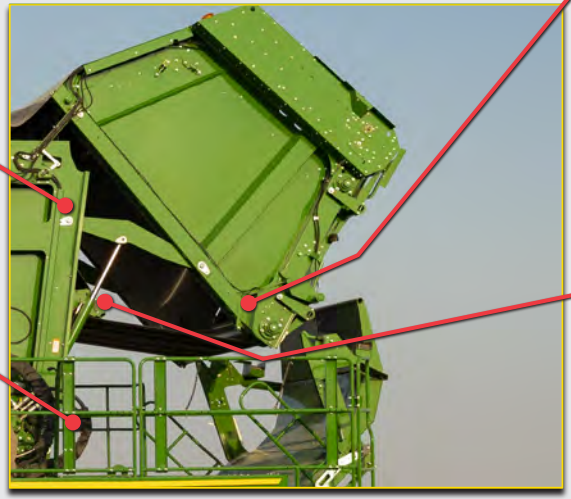
A. With the rockshaft raised, clean and check the belts and rollers inside RMB.

B. Clean the gate latch sensor area.



C. Clean and check the wrap feed rods. Clean out the debris around the lower gate roller.

D. Lower the rockshaft and operate the belts to check the tracking.

Rear Axle and Cooling Package

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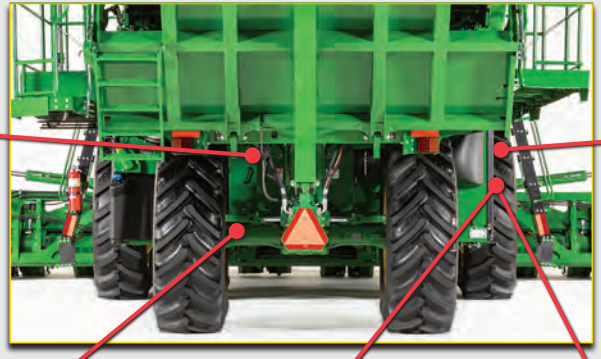
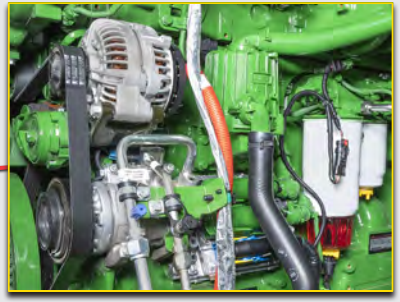
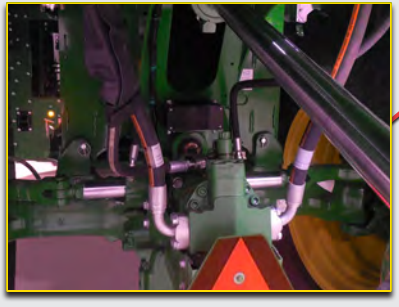
A. Clean and check the handler position sensor.





E. Clean the alternators and check the engine belts and pulleys.



B. Clean the rear axle U-joints, tie rods, motor, and hoses.

C. Open cooling module door. Clean the door and door latch.

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D. Rotate latch and swing out cooler assembly. Clean coolers and latch. Remove debris from air intake duct and precleaner.

Front Axle, Power Module, and Engine Compartment

IMPORTANT: *Open the panels under the machine to allow debris to fall to the ground.*

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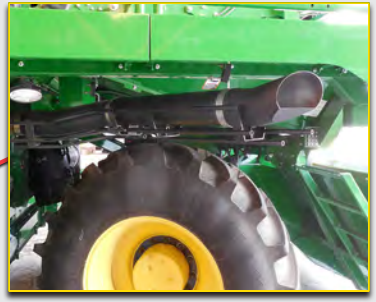
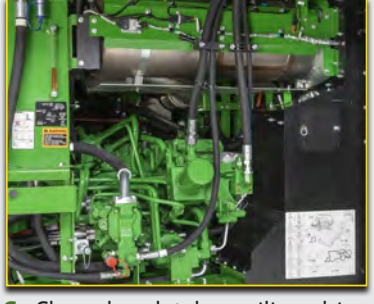
A. Clean transmission, hydraulic valve block, and front axle area.

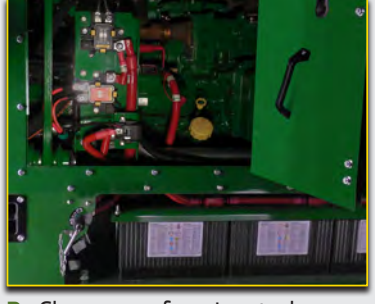


E. Clean exhaust system components, including heat shields and hanger brackets.

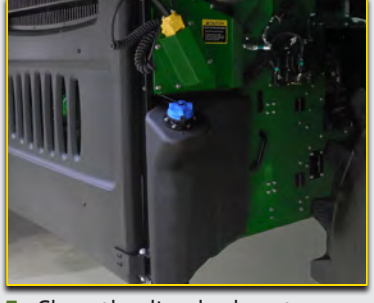
B. Clean cotton fan rotor, belt, and pulleys.



C. Clean door latch, auxiliary drive gear case, hydraulic pumps, and exhaust components.



D. Clean rear of engine, turbo-charger, exhaust manifold, starter, and battery area.



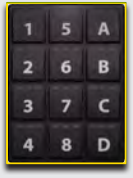
F. Clean the diesel exhaust fluid (DEF) tank and pump (if equipped). Clean access panel latches.

Wrap Load Procedure

NOTE: Handler does not rise completely until the wrap hoist is all the way up.

Button Sequence

Press button 4, then A/B or C/D to begin the procedure.



1. Press up on the wrap hoist switch (A) to raise the hoist.

2. Lower the handler.

3. Remove load handles from storage brackets.

4. Place the arms in the load position on handler.

5. Place roll in wrap arms with tag to the left side.

6. Raise the handler.

7. Lower the wrap hoist.

8. Repeat until the magazine (four rolls) is full; place the wrap hoist in the center position.

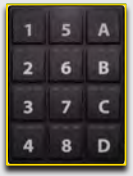
Empty Wrap Roll Replacement

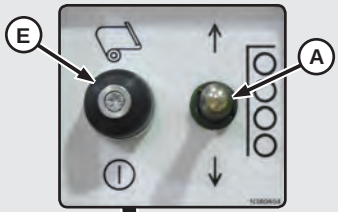
Replacing Empty Wrap Rolls

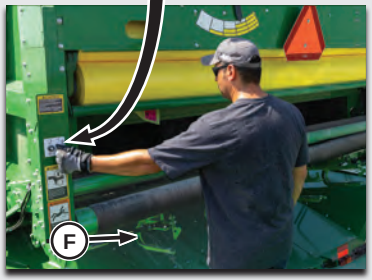
NOTE: Power module tether is disabled by interlock when ladder is down.

1. Using the keypad, press button 4, then A to fully raise the hoist.
2. Using the keypad, press button 4, then C/D to raise/lower the handler.
3. Release handler ladder from storage position and fold down.
4. Remove empty roll from rollers, place in the storage brackets (F).
5. Press down on the wrap hoist switch (A) to lower the new wrap roll into position on the rubberized wrap rollers.
6. Press up on wrap hoist switch to raise hoist until motion stops.
7. Remove tape retaining leading edge of wrap to roll.
8. Rotate wrap roll to feed out approximately 1–1.2 m (3–4 ft) of wrap.

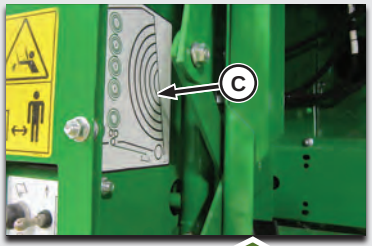
Keypad







Feed Wrap

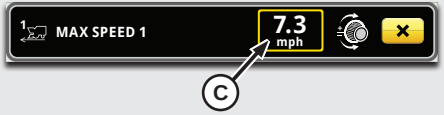


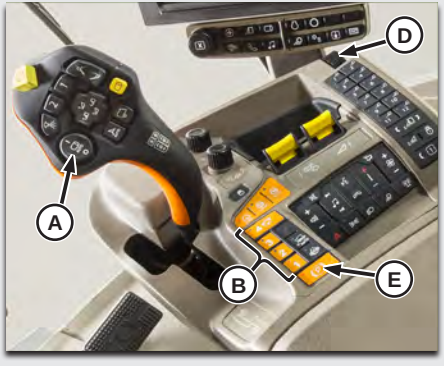
9. Feed the first portion of wrap (B) around the feed rollers as shown in the wrap routing diagram (C).
10. Guide the wrap into position between the lower feed roller and the wrap belts.
11. Ensure that wrap is distributed evenly across wrap belts and roller.

Lower Wrap Hoist

12. Press down on the wrap hoist switch (A) to lower the hoist.
13. Press the wrap feed switch (E) to feed the wrap into position. Leading edge of wrap must be within area indicated on the decal (D) above wrap floor.

Start of Day Procedure





1. Cleaning and Maintenance

- Clean the machine as shown on pages 3—7.
- Complete the maintenance items listed on page 16.
- Inspect the machine for leaks or damage; repair as needed.

2. Start the Engine

- Place the multi-function lever in neutral position and make sure the fan/cleaner and header switches are in the OFF position.
- Sound the horn to alert others to stay clear of the machine.
- Turn the key to the start position and release once the engine starts. Do not operate starter for more than 30 seconds at a time. If the engine does not start, wait at least 2 minutes before trying again.

3. Warm Up the Machine

- Allow the engine to warm up at low idle for 2—4 minutes.
- Warm up the hydraulic oil and components by engaging the fan, cleaner, and header. Increase the engine speed to fast speed and press floor switch to operate cotton handling system for 5 minutes.

4. Driving the Machine

- Be sure that all people and objects are safely away from the machine before driving.
- Select the desired speed by pressing one of the transmission range buttons (B).

NOTE: Ranges 1 and 2 are typically used for field operation, while ranges 3 and 4 are typically used for road transport.

NOTE: The maximum speed (C) for transmission ranges 1 and 2 may be adjusted. Press and hold the range 1 or 2 buttons on the armrest and use the armrest adjustment dial (D) to adjust the maximum speed.

- Press the park brake button (E) (light starts flashing).
- Move multi-function lever forward for forward travel or rearward for reverse travel.

5. Harvesting

- With the engine at low idle, engage the fan and cleaner switch followed by the header switch. Increase the engine speed to high idle.
- Align the machine with rows to be harvested and lower the head to desired position.
- Slowly drive the machine forward into crop and press the top of the auto round module builder switch (A) to engage Auto Mode.
- Engage the row guidance as shown on page 14.
- Once a module has been formed and wrapped, a “ready to eject” notification is displayed. Verify that there are no overhead power lines or obstructions before pressing and releasing the auto button to eject module.

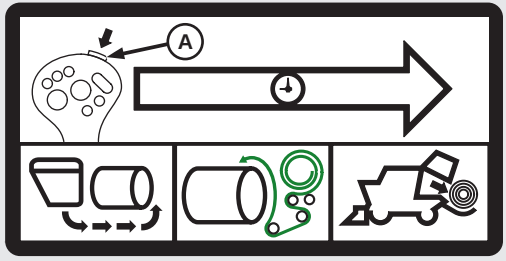
In Case of Fire

1. Disengage the fan.
2. Immediately point the machine into the wind.
3. STOP the engine.
4. Extinguish all flames and hot spots using appropriate fire extinguisher or auxiliary water hose.
5. Restart the engine.
6. Unload cotton from the machine.

End of Day Procedure

Unloading Cotton from the Machine

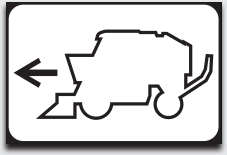
Engine at high speed



Step 1: Stop the machine, engage the park brake, and raise the row units. Run the row units for 20—30 seconds to clean out excess cotton.

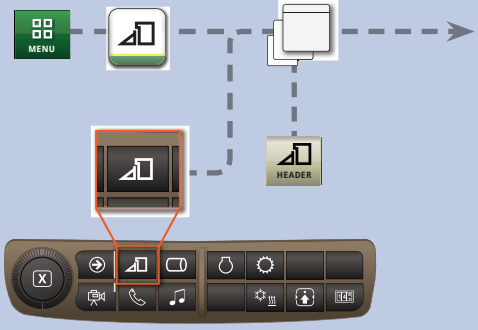
Step 2: To empty the accumulator, press and hold the accumulator unload button (A) on the multi-function lever. An audible alarm occurs and a message appears on the CommandCenter™ display when the accumulator is empty.

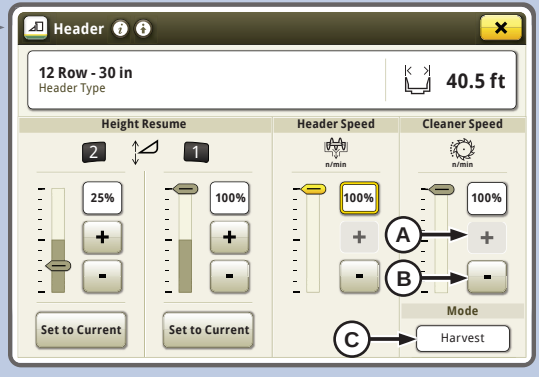
Step 3: Eject the module by pressing and holding the unload button.



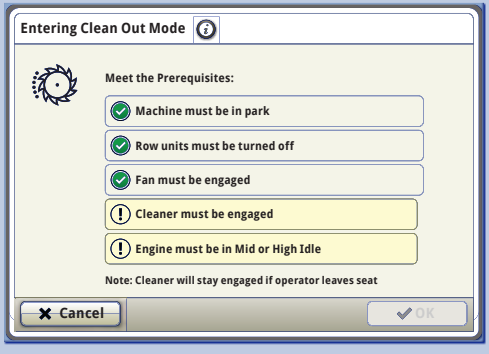
Remember to drive forward while dropping module and raising handler.

Air System and Cleaner Adjustments

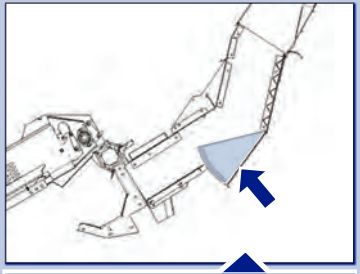




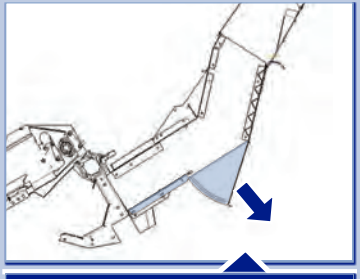
1. Access the Header application using either the display or the navigation bar below the display.
2. Cleaner Speed can be changed by pressing the increase button (A) or the decrease button (B) while monitoring the speed on the corner post display.
3. Cleaner can be set to Clean Out Mode by selecting the input box (C) below Mode and and then selecting Clean Out.
4. After selecting Clean Out, the Entering Clean Out Mode screen opens. To exit Clean Out Mode, select Cancel. To begin Clean Out Mode, meet the prerequisites and then select OK.



Air System Adjustments



Maximum Vacuum Pressure Configuration



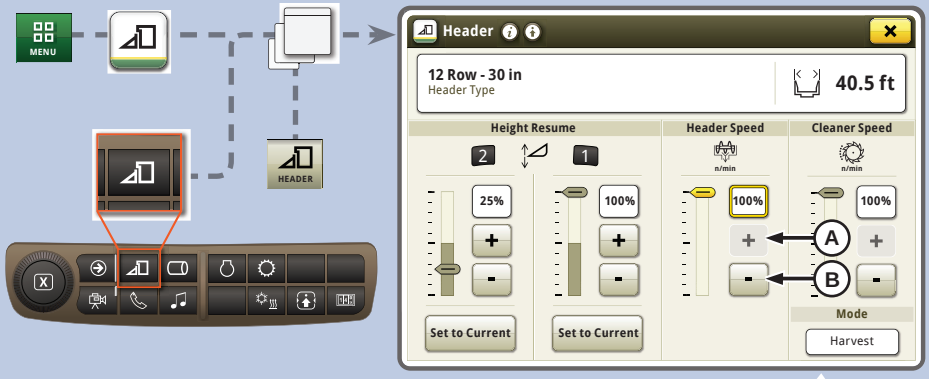
Increased Green Boll Separation Configuration

Header Adjustments

Multi-Function Lever Buttons

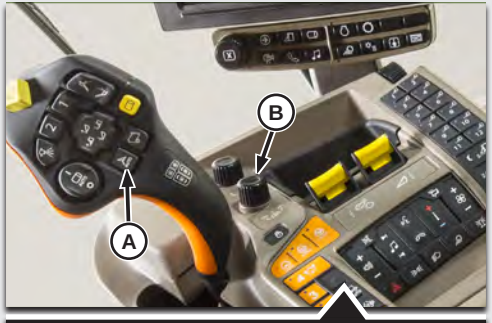
1. Press and hold button (A) to change the setpoint.
   NOTE: One button is used for the header raise setpoint, the other for the lower setpoint.
2. Press and release button (A) to move the header to the preset position.
3. Response rate dial (B) allows the operator to control how fast the row units react (rise or lower) to changing ground conditions.
4. Unit offset—Press button (C) and use the armrest adjustment dial (D) to set the height of all row units.
5. Press and release the numbered unit buttons to raise associated unit. Press again to lower. Press and hold to change the individual unit height offset.

Header Configuration Setup



1. Access the Header application using either the display or the navigation bar below the display.
2. Header speed can be changed by pressing the increase button (A) or the decrease button (B) while monitoring the speed on the corner post display.

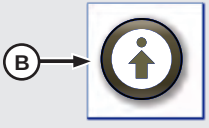
Operating Row Guidance System

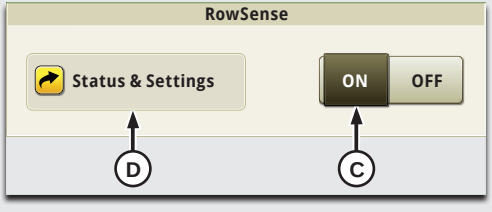


1. Engage the guidance system by pressing the engage button (A) on the multi-function lever while the machine is harvesting. Audible alarm sounds once to confirm that the system is engaged.
2. Offset adjustment dial (B) is used when necessary to make minor adjustments to keep the machine centered in the rows.

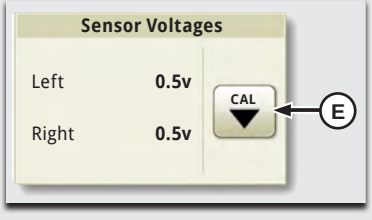
Calibrating Guidance System

1. Position the machine on a level concrete surface.
2. Select the Guidance icon (A).
3. Select the Advanced Settings icon (B).





CommandCenter™ Screen Colors	
Row Guidance Icon Color	
White	System Off
Gray	System Enabled
Yellow	Sensor-Only Guidance
Green	GPS/Crop Sensor Guidance
Orange	GPS-Only Guidance



4. If RowSense™ is turned off, turn on RowSense™ (C).
5. Select RowSense™ Status & Settings button (D).
6. Select the Calibration icon (E).
7. Follow the on-screen directions.

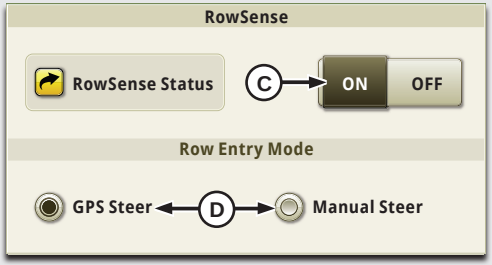
AutoTrac™ RowSense™ Settings

AutoTrac™ RowSense™ Requirements

1. StarFire™ Receiver with SF1, SF2, or RTK activation.
2. Generation 4 Display with AutoTrac™ SF1 or SF2 activation and AutoTrac™ RowSense™ activation.

Setting Guidance Mode

1. Select the RowSense™ Guidance application (A).
2. Select the Advanced Settings icon (B).
3. Use the toggle button (C) to turn RowSense™ on or off.
4. Press the corresponding button (D) to enable the desired row entry mode.

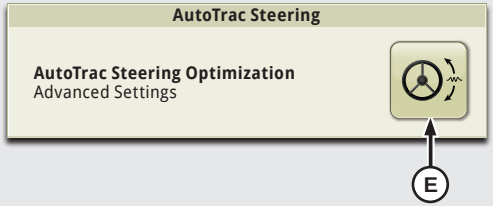


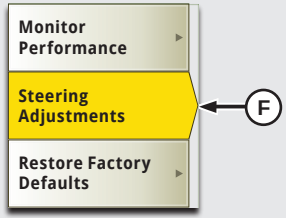
AutoTrac™ RowSense™ Operation

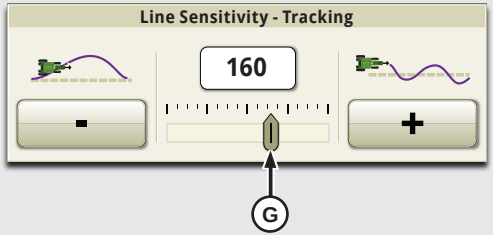
1. Before engaging AutoTrac™ RowSense™, select a tracking mode appropriate for the field configuration.
2. Set a guidance line.
3. Toggle between manual control and AutoTrac™ RowSense™ by pressing the engage button on the multi-function lever.

AutoTrac™ Steering Optimization

1. Select the Guidance icon (A).
2. Select the Advanced Settings icon (B).
3. Press the AutoTrac™ Steering Optimization button (E).







4. Select the Steering Adjustments tab (F).
5. Fine-tune the system by making small adjustments to one value at a time (G).

Maintenance Chart

12 Every 12 Hours

- Check the fluid level in the solution tank.
- Check the solution level.
- Check the auxiliary water system operation.
- Check the fire extinguishers.
- Lubricate the guide axle kingpins.
- Check the engine oil level.
- Check the coolant level.
- Check the feeder belt tracking.
- Check the hydraulic oil level.
- Check the fuel filler neck screen.
- Inspect the tires and check tire pressure.

50 Every 50 Hours

- Lubricate RMB rockshaft pivots.
- Lubricate lower bearings on row unit crop augers.
- Lubricate the cleaner bearings.
- Check the cleaner drive belt tension.
- Check the header drive belt tension.
- Check cotton fan drive belt tension.
- Check the fuel strainer and water separator.
- Inspect cab fresh air filter for cleanliness.
- Check RMB belt tracking.

100 Every 100 Hours

- Lubricate front axle driveshaft couplings.
- Lubricate the final drive axle bearings.
- Lubricate the guide axle pivot and guide axle tie rod ends.
- Check the torque on the drive and guide wheel bolts.
- Check the laydown roller chain tension and lubricate.
- Lubricate row unit auger bearings.

Break-In Service

1 After 1 Hour

- Tighten Wheel Hardware

5 After 5 Hours Check Belts for Alignment and Tension

- Feeder Belt
- Engine Accessory Drive Belt
- RMB Belts
- Cleaner Drive Belts
- Cotton Fan Belt

10 After 10 Hours

- Tighten Wheel Hardware
- Check RMB Belt Tracking
- Check Feeder Belt Tracking

20 After 20 Hours

- Check Laydown Roller Drive Chain Tension
- Check Cotton Fan Belt Tension

Clearing an Air System Plug

In the event the air system becomes plugged, it can be necessary to remove cotton from the duct manually. The most common air system plug occurs in the throat area, where cotton transitions from the header to the upper air duct.

The operator presence system is designed to allow the operator to leave the seat and unplug the air system while the cleaner remains engaged. Carefully perform the following procedure to unplug the air system while the fan and cleaner remain engaged.

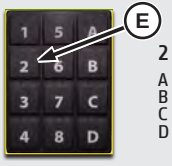
1. Raise the header and lower the safety stops over the cylinder rods.
2. With the engine running at high speed and the cleaner engaged, move the multi-function lever to neutral, set the parking brake, and turn off the header switch.
3. Cleaner engaged message appears on the display and an audible alarm sounds when the operator leaves the seat. The fan and cleaner remain engaged when the conditions listed in step 1 are met. Do not open the cleaner shields during the clearing procedure.

NOTE: The fan and cleaner can be disengaged during this process, if desired.

4. Locate plugged area of the air duct and dislodge cotton into the air stream.
5. Sit squarely in the operator's seat, release the park brake, and engage the row units switch to resume harvesting.

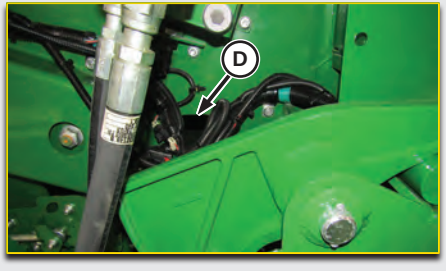
Clearing a Cotton Handling System Plug

A cotton handling system plug can occur when the metering rollers, beater rollers, or feeder belt speed is too low or if the hydraulic motor stalls. If this condition exists, a low speed alarm is typically shown on the display. Use the following procedure to verify and resolve a plug in the cotton handling system:

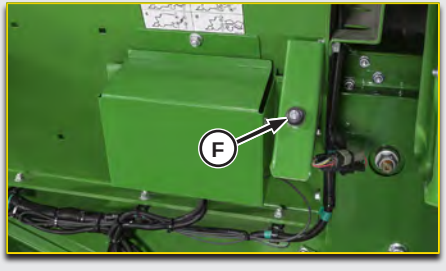


2 FEEDER CLEANOUT

A = BEATER ROLLERS
B = METERING ROLLERS
C = FEEDER AND BALER
D = ALL COMPONENTS



1. Stop the machine and place the multi-function lever into neutral.
2. Disengage the fan and cleaner switch (A) and the header drive switch (B).
3. Turn off Auto Mode by pressing the bottom of the auto round module builder (RMB) switch (C) on the multi-function lever.
4. Inspect the machine for plugs. Check for cotton on top of the feeder belt through the inspection window (D).
5. Using the keypad, press the 2 button (E) to place the machine in the Feeder Cleanout Service Mode. Engine must be at high idle.



6. Press the B button on the keypad or tether while pushing the metering roller reversing switch (F) to operate the metering rollers. Operate the metering rollers in reverse for 15 seconds and release the tether button and switch.
7. Press the D button on the tether to operate the cotton handling system. Watch the metering rollers, beater rollers, and feeder belt for rotation. If the components operate normally and cotton is feeding into the RMB, continue to press D until the accumulator is empty.
8. If the system is still plugged, repeat steps 5 and 6.
9. If the plug cannot be cleared by reversing the metering rollers, it may be necessary to place the machine into transport configuration and manually clear the cotton plug from the feeding system. Shut off the engine and remove the key before manually unplugging the machine.

Additional information and videos are available at:

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