



Gleaner N Series

All models are included in this document, please note the yield sensor location varies, and use only the measurement for your Model of Combine. No need to mount if using GPS.

Ground Speed



Ground Speed Sensor magnet location. Sensor bracket can be located on the flat plate drilling may be required.



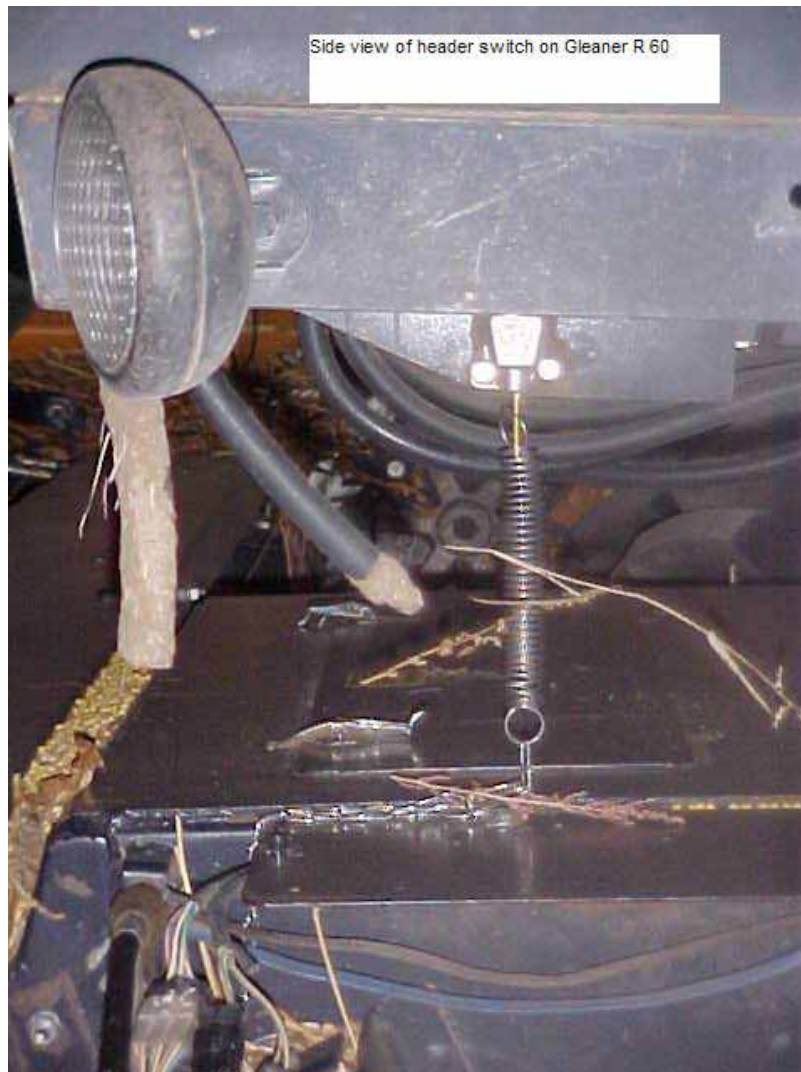
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Header Switch:

The header Switch performs an important function and must be installed such that adjustment of the chain can be made for varying crops and headers.

Below is a typical installation where very little of the chain has been used to connect the switch to the feeder house. Use the following general rules when installing the header Switch:

1. The chain must pull on the switch as straight as possible.
2. When attaching the chain to the feeder house, make sure a location is picked that will not be damaged by crop residue building up around the chain and sensor.





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Yield Sensor:

The Yield Sensor is the most critical part of the system. Plan the installation of this sensor carefully prior to drilling any holes.

Precautions for all Gleaner Combines:

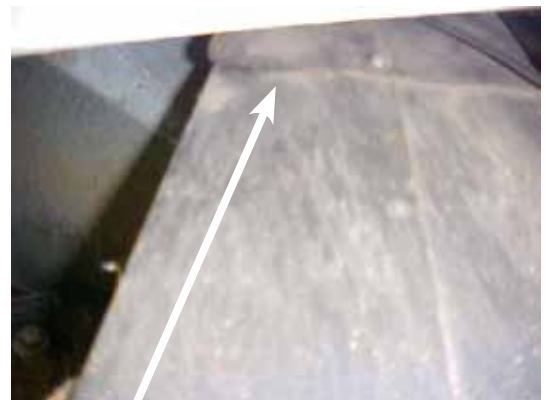
1. The location must be high enough to clear the variable pulley the runs just behind the clean grain leg.
2. It is highly recommended that plates 1 ¼" X 2" be installed on the paddle brackets. It may be possible to make the system work with out these plates but it is unlikely that accurate results will be obtained with out these plates. Loup Electronics supplies 36 plates that cover the bracket, such that the Yield sensor "sees" the plate as a part of the machine at all times.

For installing this sensor, a Step bit is highly recommended, these can be purchased at most tool and hardware stores, one capable of drilling a 7/8" hole will be required.

R60-R62-R72 Yield Location L and M series should be 35mm to 40mm. Measure to the middle of the paddle and see what the dimension is for sure.



Drill hole in from side of leg 50mm. A step bit is best used to drill a 7/8" hole on both sides of the leg.



Yield Sensor Location. Locate sensor 120-180mm down from top plate butt above the side door hinge.



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Elevator Paddle Bracket Modification:

Locate the bag of 37pcs of 2" X 1 ¼" Metal Welding Tabs

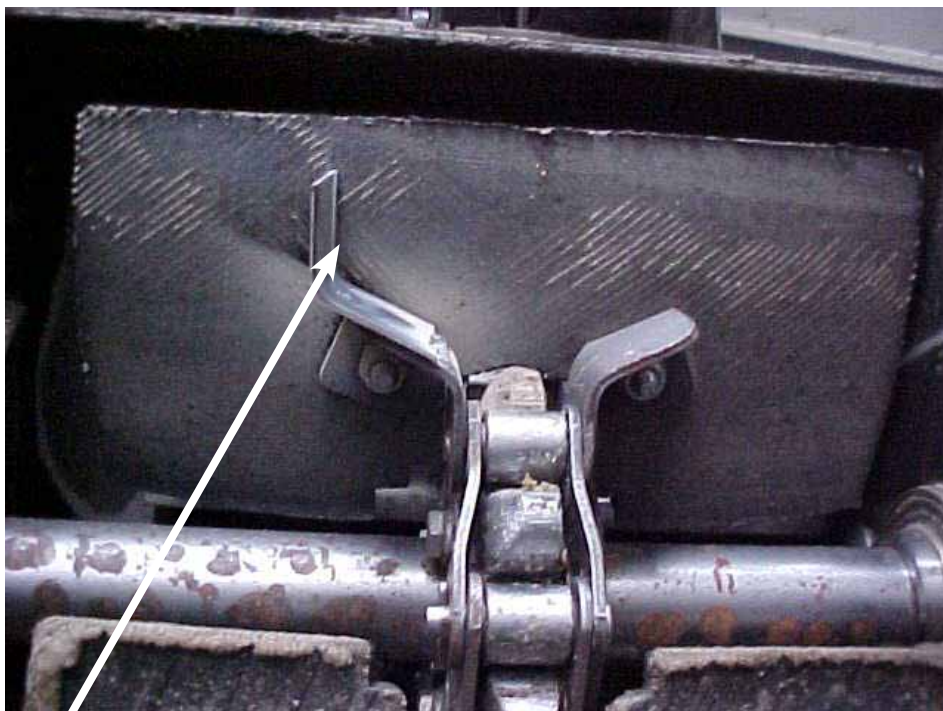
Purpose of the Modification:

Each paddle bracket will have a plate attached to the existing bracket. This prevents the Yield Sensor from "seeing" the bracket during harvesting. Essentially, the extension to the paddle bracket causes the monitor to read the bracket and extension at all times. Since this is a part of the Tare/Zero setting of the monitor, the brackets and plates do not impact the yield reading. However, if the system were to be run with out the extensions on the paddle brackets, it is possible for the bracket to "appear" in front of the sensor as the chain tension loosens during the harvest season, this would cause the monitor to read a higher than actual Yield.

It is easiest to perform this modification by removing the elevator chain. Please refer to your combine manual for specific removal and reinstallation instructions.

After the chain has been removed, we find it easiest to weld the extension in place. Remember that only one of the two brackets holding the paddle needs to be covered.

This is a picture of a typical welded installation of the brackets:



Black RTV Silicone will be needed to fill the gap between the paddle and the bracket.



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FG Moisture Sensor Installation for Cleanout Door Combines

For Combine models with the short cross auger in the tank the FG Sensor mounting location is in the trap door on the bottom of the Clean Grain Elevator as shown.

Cut a 3.25" hole not directly on the bottom locate the sensor toward the rear of the machine.



Check sensor fit to the door if needed grind the outer lip of the bracket to allow the sensor to fit the door.





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Two 1/4" holes were drilled inline with the center of the hole and out 3/8" from the hole edge to the center of the 1/4" hole.

The Bolts used were 1/4" x 1 1/2" counter sunk head. The holes were countersunk to allow the inside to be smooth.

JB Weld Putty was used on the leading and trailing edge of the sensor to seal the sensor housing to the trap door to prevent grain leakage.



The sensor is held in place with two small brackets made from 1" x 1/8" Flat iron and fastened with lock nuts.

Route the cable up the back side of the clean grain elevator and to the front of the combine and follow the instructions for hookup in the Manual provided.

Console Mounting

Please refer to Manual:

PS8000i Ceres Yield Monitor
Installation
Section: 2.2
Page: 8





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Junction Box Installation and Wiring

This location is on the right-hand side of the machine just behind the cab.



(Image for location purposes only)

For instruction on mounting and accessing the Junction Box, please refer to Manual:

PS8000i Ceres Yield Monitor

Installation
Section: 2.0
Pages: 5-6

Important Note: For all wiring except the moisture sensor, please refer to Manual:

PS8000i Ceres Yield Monitor

Installation
Section: 2.1.3-2.1.4
Pages: 6-7



Moisture Sensor Wiring Configuration is on the following page.



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Moisture Sensor Wiring Configuration

This setup is using the Gray cable supplied from the FG Moisture Sensor.

The following connections must be made at the Junction Box to obtain correct readings from the FG Moisture Sensor.

Locate the Moisture Sensor Connections on the Junction Box.

The Moisture Sensor Cable enters the junction box as shown in the illustration above. Connect the Black wire to the 0V Terminal at Moisture Sensor Location on board. Connect the Red wire to the +12V Terminal at Moisture Sensor Location on board.

Note: The Other 3 Terminals on the junction box will not be used.



Connect the Green wire from the moisture sensor to the Gray wire from the Head Unit. Connect the Clear wire from the moisture sensor to the White wire from the head unit.



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Power Supply

Please refer to Manual:

PS8000i Ceres Yield Monitor

Installation

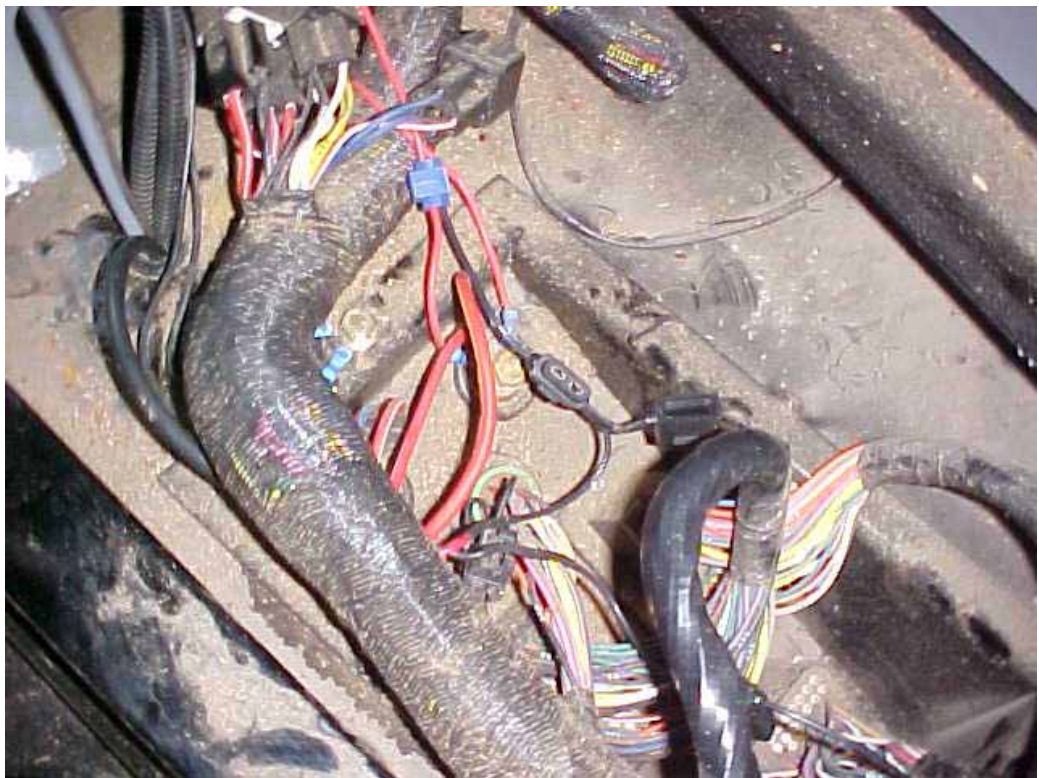
Section: 2.7

Page: 15

Using the power cable supplied with the system, connect the Brown Wire to +12 VDC Switched and the Blue Wire to Ground. Please note that each of these wires has a fuse installed on the wire and the wire from the fuse is black!

It is easiest and safest to connect the wires in the Junction Box prior to connecting them to the Combine power.

Some newer models have a cover on the right-hand side of the floor in the cab that will allow access to Power and Ground along with access for routing cables into or out of the cab to the junction box.





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Software Configuration for the FG Moisture Sensor

From the main operate screen. Press the setup button and you will see the setup screen to the right.



Select number 2 Technician.

Enter the Pin (1234) then press the enter button to see the screen at right.

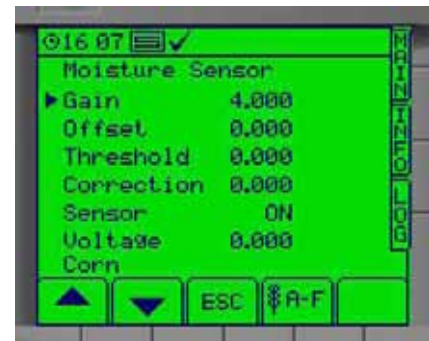


Select number 4 Temp Sensor.
Input the correct temperature in Degrees C.
The conversion for temperature is:
Degrees F – 32 x .555 = Degrees C.
Press Enter Button to accept changes.
Press the Esc. Button to exit the temperature settings.



Select number 2 Moisture Sensor and change the Gain and offset as shown in chart below: (Use the A-F button to change between crops)

Crop	Gain	Offset
Corn	4.0	0.0
Wheat	3.6	2.4
Soybeans	3.37	0.0
Canola	1.0	9.5
Oats	2.975	3.0
Barley	1.9	9.3



If you have any questions please contact Loup Electronics:

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