About Headsight

Headsight Contact Info
Headsight Harvesting Solutions
4845 3B Road
Bremen, IN 46506
Phone: 574-546-5022
Fax: 574-546-5760
Email: info@headsight.com
Web: www.headsight.com

Technical Assistance
Phone: 574-220-5511

About this Manual

How to use this manual
The instructions in this manual are in the order that they should be completed for new installations. Complete all applicable instructions in each section before proceeding. Note that some sections are labeled to indicate they only apply to certain machines or applications. An index is available in the front of the manual to help find technical information for previously installed systems.

This icon designates information of which you should take note.

This icon indicates a special tool needed for a given task.

This icon designates an important instruction.

Suggestions
If you have any suggestions to improve this manual please call 574-546-5022 or email info@headsight.com.

Disclaimers
HEADSIGHT, HORIZON, PINPOINT, FORESIGHT, FEATHERSIGHT, TRUESENSE, TERRAHAWK, INSIGHT, the Headsight logo, the Horizon logo, and Terrahawk logo are trademarks of Headsight Harvesting Solutions. All other trademarks are property of their respective owners.

Protected by one or more of the following patents and published applications:
US6883299; US7310931; US7647753; US9609806; US9609806; US10222410; US10244680; EP2955993(DE,ES,FR,IT,UK); EP2956851 AU2004203614; BR112015019262; BR112015019286; CA2900987; CA2900994; WO20180152266

Copyright Headsight, 2022
# Table of Contents

## Installation
- Before You Start ........................................................................................................... 01
- Header Type Selection
  - Prior to 2012 ................................................................................................................... 02
  - MY 2012 & Up .................................................................................................................... 02
- Horizon Base
  - All Models ....................................................................................................................... 02
- Header "App" Harness
  - All Heads prior to 2012 - Types 1 & 2 ........................................................................... 03
  - 2012 & up Rigid w/o ICF Reel - Type 3 ............................................................................ 03
  - 2012 & up Folding & ICF Reel - Types 4-6 ........................................................................ 03

## Settings
- Horizon Setup - All Types .................................................................................................. 05
- Horizon Feature Unlock - Types 4-6 Only ............................................................................ 05
- Setup Screen - All Types
  - Select header model ....................................................................................................... 06
  - Set shaft speed alarms ...................................................................................................... 06
  - Show shaft speed alarm .................................................................................................... 06
  - Show deck plate position ................................................................................................. 06
  - Show maintenance reminder ......................................................................................... 06
  - Header hours .................................................................................................................... 06

## Operation
- Home Screen - Basic Display (Types 1 & 3) ..................................................................... 07
  - Deck Plate Position .......................................................................................................... 07
  - Shaft Speed ....................................................................................................................... 07
  - Deckplate Angle ............................................................................................................... 07
- Home Screen - Folding & ICF Controls (Types 2, 4, 5, & 6) ........................................... 07
  - Deck Select ...................................................................................................................... 07
  - Fold Select ......................................................................................................................... 07
  - ICF Reel F/A Select .......................................................................................................... 07
  - ICF Reel Height Select ..................................................................................................... 07
  - Mode ................................................................................................................................ 07
  - Operating Header Controls - Types 1 & 3
    - Changing Deckplate Spacing .......................................................................................... 08
  - Operating Header Controls - Type 2
    - Folding & Unfolding the Header ...................................................................................... 08
    - Changing Deckplate Spacing .......................................................................................... 08
  - Operating Header Controls - Types 4-6
    - Folding the Header ........................................................................................................ 09
    - Unfolding the Header ....................................................................................................... 10
    - Operating the ICF Reel ................................................................................................... 10
    - Changing Deckplate Spacing .......................................................................................... 11

## Advanced Info
- ........................................................................................................................................ 12
This Page
Is Intentionally
Left Blank
Installation

Before working on combine or under header always:

1. Perform all combine and header manufacturer safety precautions for servicing header.
2. Insert stop to prevent movement of header.
3. Set combine parking brake.
4. Turn off combine and remove key from ignition.
5. Disconnect all drive shafts from the header.

Before You Start

Because of the complexity of the entire system, several different Installation manuals may be provided for a complete installation. Kits may include:

- Header Sensor Manual(s)
  - Shows the installation of AHHC & row guidance sensors for a specific header
  - Includes sensor installation and sensor wire routing
- Horizon Manual
  - Main manual showing installation and operation of the overall Horizon system
  - Includes installation of controllers and wiring for various options
- Header App Manual
  - Header specific manual for the “Application” of auxiliary sensing controls on a specific head.
  - Includes Installation and operation instructions for the header App.

1. Complete the sensor and sensor wiring installation first.
2. Use this App manual along with the header installation portion of the Horizon manual to complete the installation.
Header Type Selection

Because of the variety of models and options covered, this manual divides the headers into "types" to allow easy reference throughout. Note that these have no connection to any OE model or label.

Determine the correct “Type” for your header and refer to the Instruction sections for that type

Prior to 2012
- Type 1: Rigid heads
- Type 2: Folding heads

MY 2012 & Up
- Type 3: Rigid without the ICF Reel
- Type 4: Rigid with ICF Reel
- Type 5: Folding without the ICF Reel
- Type 6: Folding with the ICF Reel

Horizon Base

All Models
1. For Deck Plate angle to read correctly, Horizon must be mounted flat on back sheet of header as shown.
Header "App" Harness

For CNH combines & Geringhoff headers with folding and/or reel control connect Y147B to Y148 on main CNH Horizon harness.

**All Heads prior to 2012 - Types 1 & 2**

1. Use HT9470
2. Connect Y904 to Y903 of main Horizon header harness.
3. Connect Y412 to mating connector on OE Geringhoff header wiring harness.
4. For folding heads only - connect Y122 to wire coming off of folding solenoid valve.

**2012 & up Rigid w/o ICF Reel - Type 3**

1. Use HT9471
2. Connect Y904 to Y903 of main Horizon header harness.
3. Connect Y412 to mating connector on OE Geringhoff header wiring harness.

**2012 & up Folding & ICF Reel - Types 4-6**

Horizon replaces the OE “computer” (control module) mounted on the header. Disconnect the OE wiring from the OE “computer” and connect it to the Horizon App harness.

1. Use HT9472
2. Connect Y904 to Y903 of main Horizon header harness.
3. Make sure HT9202 resistor pack is connected to Y150.
4. Route harness to header control valves.
   - Most in center of head above feeder
   - Early s/n to right of feeder
   - Follow existing wiring & pipes
5. Connect Y230 ground ring to a clean ground bolt near valves.

6. Connect Headsight’s X1 to Geringhoff’s harness X1.

7. If ICF equipped, connect Headsight’s X2 to Geringhoff’s X2.
   • If not equipped, leave Headsight’s X2 capped.

8. Connect Y1-5 connectors. Cap unused connections

   **All - Types 4-6**
   • Y1 to Geringhoff deck plate valve wiring

   **Folding heads - Type 5 & 6**
   • Y2 to Geringhoff fold valve wiring
   • Y3 to Geringhoff lock pin valve wiring

   **ICF equipped heads - Types 4 & 6**
   • Y4 to Geringhoff ICF fore/aft valve wiring
   • Y5 to Geringhoff ICF up/down valve wiring

---

**Theory of Operation and Diagram**

Horizon and the HT9472 App harness replace the OE “Computer”. Different header “types” may use some or all of the functions. Disconnect the OE plug for each function and connect it to the same labeled plug on the HT9472 harness. Use caution not to “mix up” the valve function plugs.
Most Screens include Help pages that can be accessed by pressing the ? button. These pages contain further information about the items displayed on the current screen.

**Horizon Setup - All Types**

1. When entering your combine and header information in the Initial setup of Horizon, Choose:
   - Header Select = Corn
   - Header App = Geringhoff

**Horizon Feature Unlock - Types 4-6 Only**

The Geringhoff App requires a feature unlock in the Horizon setup to operate 2012 & up Folding and ICF reel equipped headers.

1. Go to Horizon/Setup/Features
2. Geringhoff Controls should be checked.
   - The unlock is typically purchased with the system package and preloaded at the factory
3. Contact Headsight if this does not have a check in the box

If you ever need to replace your Horizon Base, please notify the parts department that your unit has this feature unlocked.
Setup Screen - All Types

Select header model
- NorthStar
- Rotodisc

Set shaft speed alarms
- Low speed - set minimum allowed speed
- High speed - set maximum allowed speed
- “Show Shaft Speed Alarm” must be checked to enable alarms

Show shaft speed alarm
- If box is checked you will be warned for speeds that go outside of ranges entered

Show deck plate position
- If box is checked a notification window will appear when deck plates are adjusted

Show maintenance reminder
- If box is checked a notification window will appear when OEM recommended maintenance intervals are reached

Header hours
- Press reset button if you would like to reset operator hours
Operation

Home Screen - Basic Display (Types 1 & 3)

**Deck Plate Position**
- Displays deck plate gap

**Shaft Speed**
- Displays header gearbox drive shaft speed

**Deckplate Angle**
- When the Horizon Base is mounted correctly on the backsheet of the header, this value shows the current deckplate angle of the header.
- Value is green if within OEM recommended range

Home Screen - Folding & ICF Controls (Types 2, 4, 5, & 6)

**Deck Select**
- Selects the Deckplate function
  - Upper left Icon
  - Use combine reel f/a function to move deckplates.

**Fold Select**
- Selects the Fold function
  - Upper right icon
  - Use combine reel f/a function to fold/unfold head

**ICF Reel F/A Select**
- Selects the ICF reel fore/aft (reel f/a) function
  - Right center icon
  - Use combine reel f/a function to move reel

**ICF Reel Height Select**
- Selects the ICF height (reel u/d) function
  - Lower right icon
  - Use combine reel f/a function to move reel

**Mode**
- Displays the current control function selected
Operating Header Controls - Types 1 & 3

Changing Deckplate Spacing
1. Use the combine reel f/a function to change the spacing.

Operating Header Controls - Type 2

Folding & Unfolding the Header
1. Press the Fold icon
   • Indicator should turn green
2. Use the combine reel f/a function to fold the header
3. Press the Fold icon again to disable fold

Changing Deckplate Spacing
1. Make sure Mode - Deckplate
   • Press the Fold Icon to turn off Fold mode if necessary
2. Use the combine reel f/a function to change the spacing.

Do not attempt to operate the deck plates when the head is folded. Moving the deckplate adjuster rod when the head is not fully unfolded can bend the rod when next unfolded.
Operating Header Controls- Types 4-6

Horizon attempts to automate & protect the header as possible, but it is possible to damage the header if caution is not taken while folding or unfolding the header. Please read and understand the instructions below before attempting to operate the folding system.

Folding the Header

1. Before Horizon will enter fold mode, the following conditions must apply:
   - Horizon must recognize folding valves on the head
   - Fold sensors must see the head as fully down in operating position
   - There must be no shaft speed (head not running)
   - ICF reel must be fully forward and down (if equipped)
   - Fold icon must be enabled (green indicator)

2. Press the Fold icon
   - Indicator is yellow until reel is fully extended & down
   - Indicator should turn green

3. Use the combine reel f/a function to fold the header
   - ICF reel moves fully forward and down (if equipped) - Mode = Reel x/x, Indicator is yellow
   - Lock pins retract - Mode = Lock
   - Bonnets raise - Mode = Fold-Lock -> Mode =Fold
   - Header begins to fold - Mode = Fold

Do not reverse operation of the folding immediately after starting to fold the header, as this can bend the lock pins. Do not attempt to unfold the head while the Horizon Mode =Fold-Lock. Only unfold the header when the Mode = Unfold.
**Unfolding the Header**

1. Before Horizon will enter fold mode, the following conditions must apply:
   - Horizon must recognize folding valves on the head
   - Fold button must be enabled (green indicator)

2. Before attempting to unfold the header, make sure the Mode = Unfold.

3. Use the combine reel f/a function to unfold the header

4. Continue combine reel f/a for ~5 second after Mode = Lock.

When storing the header in the folded position, the lock pins can “drift” into the locked position. Verify the lock pins are fully retracted before attempting to unfold the head.

**Operating the ICF Reel**

1. Before Horizon will allow reel motion, the following conditions must apply:
   - Horizon must recognize the ICF reel valves on the head
   - Fold sensors must see the head as fully down in operating position

2. Press the reel motion icon desired.
   - Indicator should turn green
   - Mode = “Reel U/D or Reel F/A”.

3. Use the combine reel f/a function to move the reel.
Changing Deckplate Spacing

1. Before Horizon will enter Deckplate mode, the following conditions must apply:
   - Horizon must recognize the deckplate valve on the head
   - Fold sensors must see the head as fully down in operating position
   - Deckplate icon must be enabled (green indicator)

2. Press the Deckplate icon
   - Indicator should turn Green

3. Mode = “Deckplate”

4. Use the combine reel f/a function to change the spacing.

Horizon prevents deckplate movement if the head is not fully unfolded. Do not attempt to manually operate the deck plates when the head is folded. Moving the deckplate adjuster rod when the head is not in field mode can bend the rod when next unfolded.
Advanced Info

Diagnostic Screen - All Types

Signal Details

- Header Mode
  - Changes based on Aux functions
  - Based on which valves are connected
- Header Select
- Deck Plate
  - 4.3V open
  - 1.2V closed
  - 4.6V no rod in sensor
- Shaft Speed Sensor
- Fold Sensors
  - > 9V when head is unfolded in field position
  - < 1V when head is not completely unfolded
- ICF Reel Sensors (if equipped)
  - Must be > 9V to allow head to fold

Driver Outputs do not apply to rigid headers w/o an ICF reel.

Driver Details - Types 2, 4, 5, & 6

- N/A - valve not detected
- ON - valve detected and energized
- OFF - valve detected and not energized
- Which valves are detected depend on model and options on header

<table>
<thead>
<tr>
<th>VALVE DETECT</th>
<th>TYPE</th>
<th>FOLD</th>
<th>LOCK</th>
<th>Reel F/A</th>
<th>Reel U/D</th>
<th>Deckplate</th>
<th>Lights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rigid w/o ICF</td>
<td>1 &amp; 3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Future</td>
</tr>
<tr>
<td>Folding prior to 2012</td>
<td>2</td>
<td>X</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Future</td>
</tr>
<tr>
<td>Folding w/o Reel, MY 2012 &amp; up</td>
<td>5</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
<td>N/A</td>
<td>X</td>
<td>Future</td>
</tr>
<tr>
<td>Folding w/ Reel, MY 2012 &amp; up</td>
<td>6</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Future</td>
</tr>
<tr>
<td>Rigid w/Reel, MY 2012 &amp; up</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
<td>Future</td>
</tr>
</tbody>
</table>
Manual Controls Override - Types 5 & 6

Horizon typically prevents movement of the fold function when the sensors are incorrect. Activating the Manual Controls override means you as the operator are responsible to make sure that header movement does not cause damage.

Manual Controls override is typically used when a sensor has failed, or when undesired input (such as reversing fold too early) has caused the header to get into an incorrect state. Example, folded head with lock pins in locked position.

1. On the Diagnostics screen, select “Manual Override”.
2. Accept the warning.

3. Choose the function desired to override
   - Lock - turns on Lock valve
   - Fold - turns on Fold valve

   **Lock Pins**

4. Select Lock
5. Use the combine reel f/a function to move the pins
6. Double check that pins are in position desired

   **Fold**

7. Before folding or unfolding the head, double check that all other functions are in the correct position.
   - Lock pins are unlocked
   - Reel is fully forward/down (if equipped)
8. Select Fold
9. Use the combine reel f/a function to fold the header
10. Manual Override times out in 3 minutes. Reselect if necessary

   Always retract lock pins before folding. Always extend lock pins after unfolding.
### Header Mode Chart

<table>
<thead>
<tr>
<th>Header Mode</th>
<th>Function</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Folding - prior to 2012</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Deckplate mode</td>
<td>Do nothing, all valves off</td>
</tr>
<tr>
<td>17</td>
<td>Fold Mode</td>
<td>Fold valve ON</td>
</tr>
<tr>
<td><strong>All Rigid w/o ICF reel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td></td>
<td>No control functions</td>
</tr>
<tr>
<td><strong>MY 2012 &amp; up - Folding w/o ICF Reel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Do nothing</td>
<td>All valves off</td>
</tr>
<tr>
<td>49</td>
<td>Deckplate mode</td>
<td>Deck select valve ON</td>
</tr>
<tr>
<td>50</td>
<td>Unlock mode</td>
<td>Lock valve ON</td>
</tr>
<tr>
<td>51</td>
<td>Fold mode, step 1</td>
<td>Fold &amp; unlock valves ON</td>
</tr>
<tr>
<td>52</td>
<td>Fold mode, step 2</td>
<td>Fold valve ON</td>
</tr>
<tr>
<td>53</td>
<td>Unfold mode</td>
<td>Fold valve ON</td>
</tr>
<tr>
<td>54</td>
<td>Lock mode</td>
<td>Lock valve ON</td>
</tr>
<tr>
<td><strong>MY 2012 &amp; up - Rigid w/ICF Reel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>Do nothing</td>
<td>All valves off</td>
</tr>
<tr>
<td>65</td>
<td>Deckplate mode</td>
<td>Deck select valve ON</td>
</tr>
<tr>
<td>66</td>
<td>Reel f/a mode</td>
<td>Reel f/a valve ON</td>
</tr>
<tr>
<td>67</td>
<td>Reel u/d mode</td>
<td>Reel u/d valve ON</td>
</tr>
<tr>
<td><strong>MY 2012 &amp; up - Folding w/ICF Reel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>Do nothing</td>
<td>All valves off</td>
</tr>
<tr>
<td>81</td>
<td>Deckplate mode</td>
<td>Deck select valve ON</td>
</tr>
<tr>
<td>82</td>
<td>Unlock mode</td>
<td>Lock valve ON</td>
</tr>
<tr>
<td>83</td>
<td>Fold mode, step 1</td>
<td>Fold &amp; unlock valves ON</td>
</tr>
<tr>
<td>84</td>
<td>Fold mode, step 2</td>
<td>Fold valve ON</td>
</tr>
<tr>
<td>85</td>
<td>Unfold mode</td>
<td>Fold valve ON</td>
</tr>
<tr>
<td>86</td>
<td>Lock mode</td>
<td>Lock valve ON</td>
</tr>
<tr>
<td>87</td>
<td>Reel f/a mode</td>
<td>Reel f/a valve ON</td>
</tr>
<tr>
<td>88</td>
<td>Reel u/d mode</td>
<td>Reel u/d valve ON</td>
</tr>
<tr>
<td>89</td>
<td>Auto reel extend</td>
<td>Preparing to fold, reel f/a valve ON</td>
</tr>
<tr>
<td>90</td>
<td>Auto reel lower</td>
<td>Preparing to fold, reel u/d valve on</td>
</tr>
<tr>
<td>Header Mode</td>
<td>Function</td>
<td>Operation</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------</td>
<td>------------------------------------------------</td>
</tr>
<tr>
<td>127</td>
<td>Manual valve selection</td>
<td>Manual Override selected in Diagnostics</td>
</tr>
<tr>
<td>Invalid header</td>
<td>128</td>
<td>No control functions</td>
</tr>
<tr>
<td>128</td>
<td>No control functions</td>
<td>No control functions</td>
</tr>
</tbody>
</table>
Before working on combine or under header always:

1. Perform all combine and header manufacturer safety precautions for servicing header.
2. Insert stop to prevent movement of header.
3. Set combine parking brake.
4. Turn off combine and remove key from ignition.
5. Disconnect all drive shafts from the header.

Troubleshooting Overview

Various Troubleshooting Sections are available, depending on header and symptoms.

1. Troubleshooting Folding & Reel Sensors
   - Only applies to 2012 & up folding headers
   - Use this section to troubleshoot folding sensors that are not working or out of adjustment.
   - Typical symptom:
     - Head suddenly will not fold or unfold

2. Troubleshooting - General
   - All other issues
   - Typical symptom
     - Correct header mode not being chosen
Troubleshooting Folding & Reel Sensors - Types 4-6

Most folding system errors are traced back to poorly adjusted or defective folding sensors. These sensors can be checked easily with a few basic steps and an understanding of the system. Adjusting & testing ICF Reel sensors is similar.

Description of function & diagram

The folding & reel sensors are simple magnetically activated switches. The fold sensors are connected in series. Horizon provides power to the left sensor, which closes to provide power to the right sensor, which closes to provide the signal back to Horizon. The ICF reel sensors are similar, but each sensor is independent.

Step 1: Check Diagnostics "Signals"

1. Check Diagnostics/Signal/Fold Sensors (see Advanced Info, Diagnostics Screen).
   - If the header fully unfolded - Value must be > 9V
   - If either wing is not fully unfolded - Value should be < 1V

2. If the value is less than 9V with the head unfolded, the sensors likely are not working correctly - continue with the troubleshooting steps for the fold sensors.
   - Otherwise, see Troubleshooting - General

Step 2: Mechanical adjustment

3. Check the sensor adjustment.
   - Sensor should be flush with surface of poly block
   - Sensing bolt should be within 1/8” of sensor when the head is unfolded & aligned with sensor.
Step 3: Testing fold sensor electrical operation

4. Check the left sensor first (left side sitting in cab).
   - The LED in the sensor must be on when the head is fully unfolded.
   - If not, see Testing Individual Sensor below.

5. If the left sensor LED is on, check the right sensor.
   - The light in the sensor must be on when the head is fully unfolded.
   - If not, see Testing Individual Sensor below.

6. If both sensors work, repair wire between right sensor and Horizon controller.

Step 4: Testing individual sensor - Reel or Fold

7. Check LED. If LED is on, sensor is working. Test return wire to controller (pin 4 in sensor plug).

8. Adjust the sensing bolt tight against sensor (or place steel object like wrench tight against sensor end).
   - If LED comes on
     - Sensor is going bad.
     - Replace sensor as soon as possible
     - After replacement, readjust sensing bolt to 1/8” clearance
   - If LED does not come on, proceed to next step.

9. Check for power on pin 1 of the sensor plug (see diagram on previous page).
   - Disconnect sensor
   - Pin 1 must be > 9V
   - Pin 3 is ground
   - If pin 1 not > 9V, repair wiring to sensor

10. If Sensor has power, but LED does not come on.
    - Sensor is defective
    - Replace sensor.
Troubleshooting—General

The following requirements must be met before testing:

- Key on, combine engine running
- Header connected

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fold Icon not appearing in Header App</td>
<td>Head is not a folding head</td>
<td>normal</td>
</tr>
<tr>
<td></td>
<td>Control Feature not unlocked</td>
<td>Contact Headsight to purchase Geringhoff control app</td>
</tr>
<tr>
<td></td>
<td>Header App harness not installed</td>
<td>Install HT9472 or HT9470</td>
</tr>
<tr>
<td></td>
<td>Valves not properly connected</td>
<td>Make sure harness is connected to appropriate valve plugs (See Advanced Info/Diagnostics Screens/Drivers to check connection)</td>
</tr>
<tr>
<td>Header will not enter fold mode</td>
<td>Control Feature not unlocked (2012 &amp; up only)</td>
<td>Contact Headsight to purchase Geringhoff control app</td>
</tr>
<tr>
<td></td>
<td>Header App harness not installed, or valves not properly connected</td>
<td>See Installation, App harness</td>
</tr>
<tr>
<td></td>
<td>ICF reel not fully forward or down</td>
<td>Move reel forward and down</td>
</tr>
<tr>
<td></td>
<td>ICF reel sensor(s) not connected, out of adjustment, or defective.</td>
<td>Connect X2, Adjust sensor Repair wiring, Test sensors (See Diagnostics - Fold sensors for general guidelines on testing sensors)</td>
</tr>
<tr>
<td></td>
<td>See DIAG/Signals/Reel F/A or U/D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Both sensors must be &gt; 9V when fully forward &amp; down</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fold sensors not connected or defective</td>
<td>Connect X1, Adjust sensors Repair wiring, Test sensors (See Diagnostics - Fold sensors for general guidelines on testing sensors)</td>
</tr>
<tr>
<td></td>
<td>See DIAG/Signals/Fold Sensors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Must be &gt; 9V when fully unfolded</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wrong Header Mode</td>
<td>Check valve wiring</td>
</tr>
<tr>
<td>Symptom</td>
<td>Problem</td>
<td>Solution</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>Wings are sitting on Lock pin(s) (2012 &amp; up - Types 5 &amp; 6 only)</td>
<td>Fold motion reversed too soon</td>
<td>Go to the header App Diagnostics Screen (See Advanced Info) Select Manual Controls, accept warning Select “Fold” Use combine reel f/a to lift wings off lock pins &amp; fully fold head. Select “Lock” Use combine reel f/a to retract lock pins Escape out of Manual and unfold wings normally</td>
</tr>
<tr>
<td>Lock pins are extended and/or hoods are down with wings folded (2012 &amp; up - Types 5 &amp; 6 only)</td>
<td>Lock pins and/or hoods drifted during storage</td>
<td>Go to Diagnostics/Manual controls Select “Lock” Use combine reel f/a to retract lock pins and raise hoods Escape out of Manual and unfold wings normally</td>
</tr>
<tr>
<td>Cannot adjust deckplates or ICF reel (2012 &amp; up - Types 4-6 only)</td>
<td>Mode not selected</td>
<td>Select Mode Icon desired Head not fully unfolded Fully unfold head into operating position Fold sensor or wire defective See Troubleshooting - Reel &amp; Fold sensors Wrong Header Mode Check valve wiring</td>
</tr>
<tr>
<td>Cannot adjust deckplates (prior to 2012 - Types 1 &amp; 2 only)</td>
<td>Rigid heads</td>
<td>Hydraulic or mechanical problem Folding heads Turn off fold mode Hydraulic or mechanical problem</td>
</tr>
</tbody>
</table>
For Headsight® Products

Precision Planting DBA Headsight Harvesting Solutions (Headsight) warrants its new products to be free from defects in material and workmanship for a period of twelve (12) consecutive months following the date of purchase by the retail purchaser.

Headsight warrants its new corn sensors assemblies for a period of thirty-six (36) months.

Headsight warrants genuine Headsight replacement parts and components to be free from defects in material and workmanship for a period of six (6) consecutive months following the date of purchase or the remainder of the original equipment warranty period, whichever is longer.

Headsight’s obligation under these warranties shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in Headsight’s judgment, shows evidence of such defect.

Limitations to Warranty

This warranty does not cover:

- Warranty claims directly resulting from improper installation of the product.
- Any product damaged by accident, abuse, misuse, or negligence after shipment from Headsight.
- Any unauthorized product alteration or modification.
- Any unauthorized repairs made with parts other than genuine Headsight parts.
- Any repairs performed by anyone other than Headsight or an authorized Headsight dealer unless specifically authorized by Headsight.

Warranty Procedure

- Troubleshooting should be done between farmer/dealer and Headsight through our technical assistance @ 574.220.5511.
- Labor reimbursement will occur only pre-arranged through Headsight technical assistance and be scheduled to a flat rate basis or reasonable time allowance in Headsight’s judgment.
- There is no mileage reimbursement.
- Diagnostic time will not be reimbursed except in pre-arranged circumstances.
- Warranty claims should be on typical dealer service work order with a number and name to be attached for any future correspondence.
- All warranty work must be performed, and claims submitted, within thirty (30) days of the occurrence of the claim and within the warranty period.
- All parts removed during warranty repair must be returned to Headsight with Headsight’s Return Form within thirty (30) days of the occurrence of the claim and within the warranty period.
- Headsight reserves the right to either inspect the product at the original retail purchaser’s location or require it to be returned to Headsight for inspection.

Limitation of Liability

Headsight makes no express warranties other than those, which are specifically described herein. Any description of the goods sold hereunder, including any reference to buyer’s specifications and any descriptions in circulars and other written material published by Headsight is for the sole purpose of identifying such goods and shall not create an express warranty that the goods shall conform to such description.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. There are no implied warranties of merchantability or fitness of a particular purpose. This warranty states Headsight’s entire and exclusive liability and buyer’s exclusive remedy or any claim for damages in connection with the sale of furnishing of Headsight products, their design, suitability for use, installation or operation, or for any claimed defects herein. HEADSIGHT WILL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, NOR FOR ANY SUM IN EXCESS OF THE PRICE RECEIVED FOR THE GOODS FOR WHICH LIABILITY IS CLAIMED.

No representative of Headsight nor any dealer associated with Headsight has the authority to change the items of this warranty in any manner whatsoever, and no assistance to purchaser by Headsight in the repair of operation of any Headsight product shall constitute a waiver of the conditions of this warranty, nor shall such assistance extend or revive it.

Headsight reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold. Warranty: 1/2022