



Know what's below.
Call before you dig.

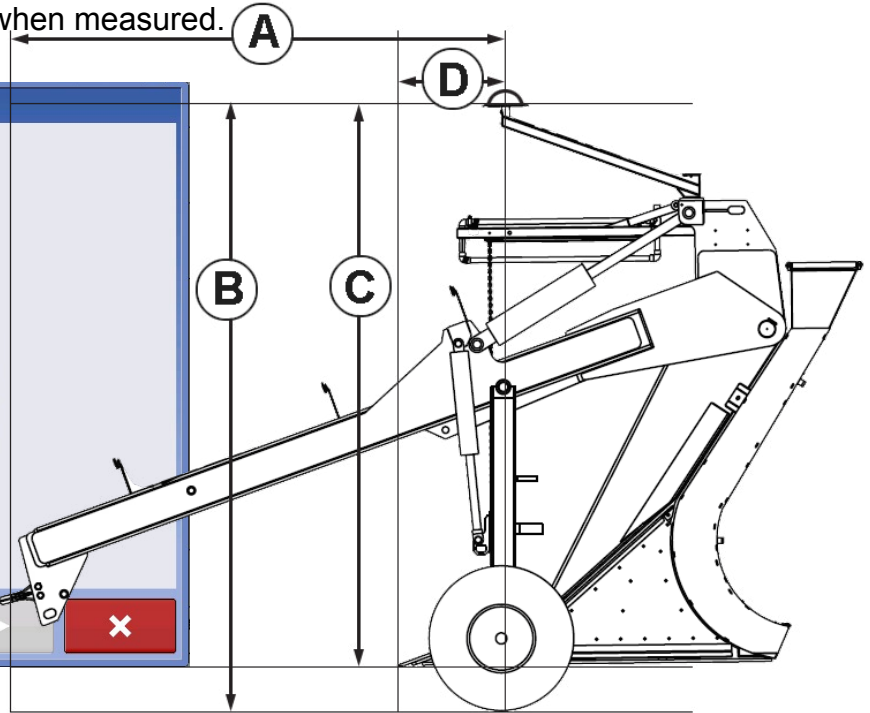
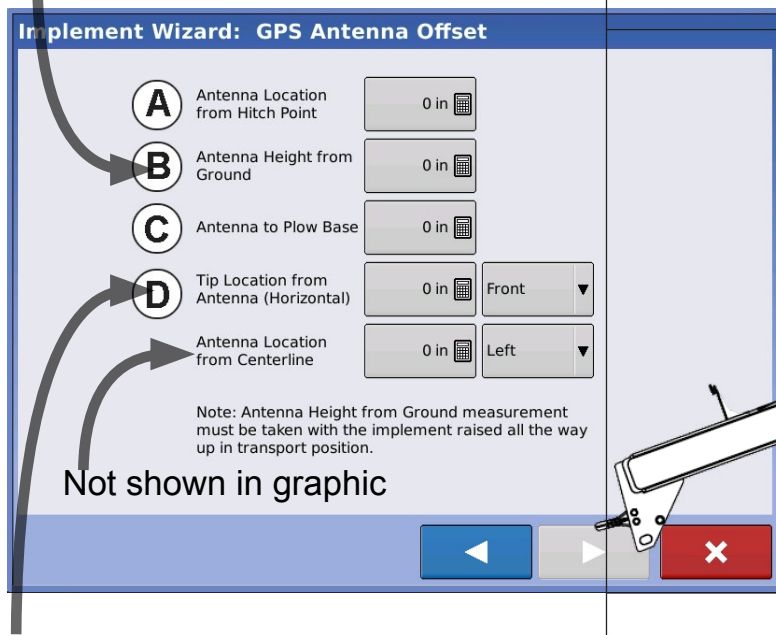
Calling 811 before every digging job gets your underground utility lines marked for free and helps prevent undesired consequences.

For more information go to www.call811.com.

The 811 logo is a registered trademark of the CGA.

Height when plow is in transport mode, this is also the position the plow is in when surveying.

Make sure plow is pitched and raised all the way up, and tires are properly inflated, when measured. For 3-pt plows, make sure plow is pitched and hitch is raised all the way up when measured.



If the tip of the plow is in front of the receiver, select front.

GPS Receiver Configuration

For Intellislope[®] to receive GPS information from the receiver, the receiver needs to be sending out NMEA GGA, VTG, and GSA sentences. NMEA is a standardized output that virtually every GPS receiver supports. When connecting non-Ag Leader receivers for use with Intellislope, the customer is responsible for knowing which port they are connecting to the WMC for NMEA output and configuring the output of that receiver.

For all receiver types, make sure that the following messages are turned on and that the receiver has a fixed RTK position.

Baud – 19200 or 38400

Hz Rate – 5 or 10 Hz

NMEA messages – GGA, VTG, and GSA. Turn off all other messages.

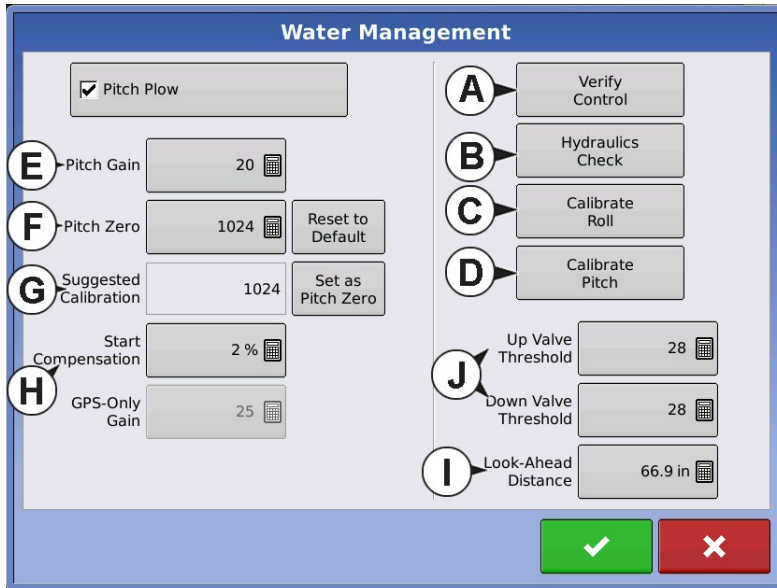
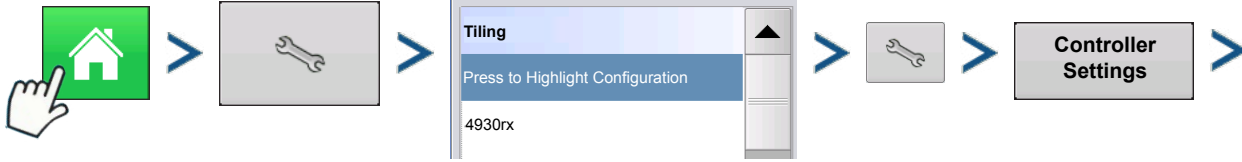
Some Ag Leader receivers connect through different ports:

GPS 6500 – Configure the above settings on Port B. Use GGA (Position).

ParaDyme/GeoSteer/GPS2500 – Configure the above settings on Port A. ParaDyme and GeoSteer need to output GGA current.

If your display is not unlocked for Intellislope, please upgrade to version 6.0+.

Setup Water Management



A - Ensure the display can manually control the pitch of the plow. It will help the user know that the hydraulics are working and connected correctly.

B - Checks hydraulics for proper connection and function

C - Walks user through process of calibrating roll sensors. Make sure all tires are properly inflated before performing this calibration.

D - Must be performed before Intellislope will work. May take up to 600 ft so make sure space is available. User may pause and resume calibration if space is an issue.

E - Changing value will increase/decrease aggressiveness of plow pitch changes. The default (20) is a good starting point for the Gold Digger plow.

F - The default value of 1024 will work in a variety of conditions with the GoldDigger plow. The system will continue to check itself after every installed run to see if the Pitch Zero number needs to be adjusted. It will provide a suggested calibration in the space below. It is recommended to check the value periodically in the devices/WMM diagnostic page for best plow performance.

G - Intellislope's updated "Suggested" valve for pitch zero.

H - The default value of 2% is the target plow pitch the system achieves as the auto level feature is used when the plow is lowered into the connection hole and pulled into the bank. If you notice that the actual plow elevation dips below the target line frequently immediately after you start moving, increase this number 1% and re-evaluate.

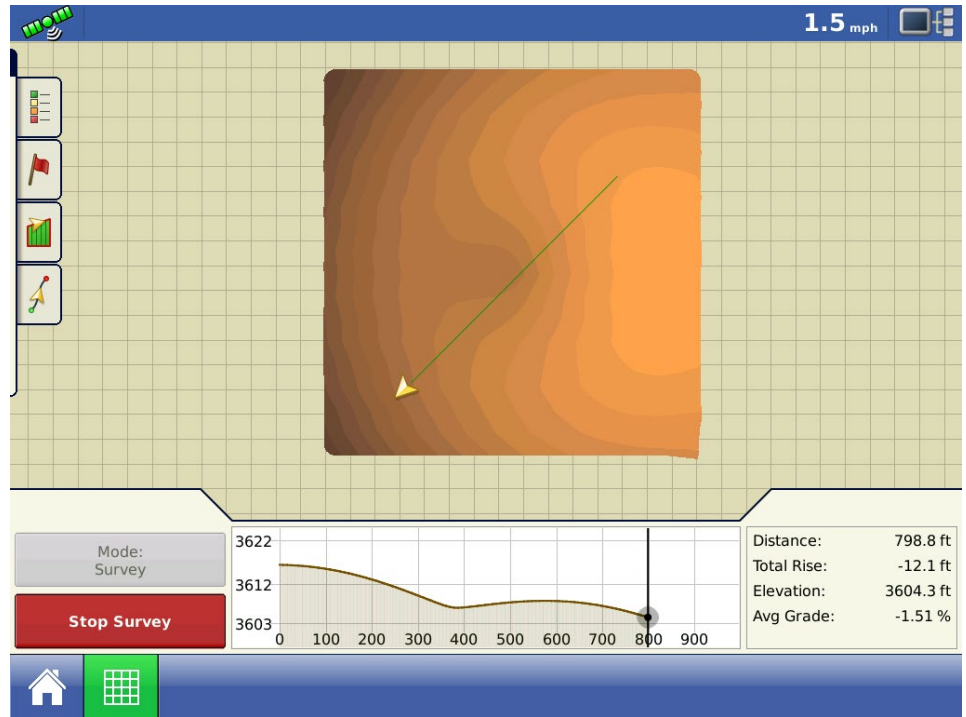
I - This normally does not need to be adjusted from the default (66.9) valve in GoldDigger plows. It is the horizontal measurement from the plow sheer (point) to the tile boot.

J - The default valves (28) will work most of the time for the GoldDigger Parker Valve. Generally, increasing the valves will increase the speed that the plow pitches up/down.

When in survey mode, the user drives where they want the tile to be laid.

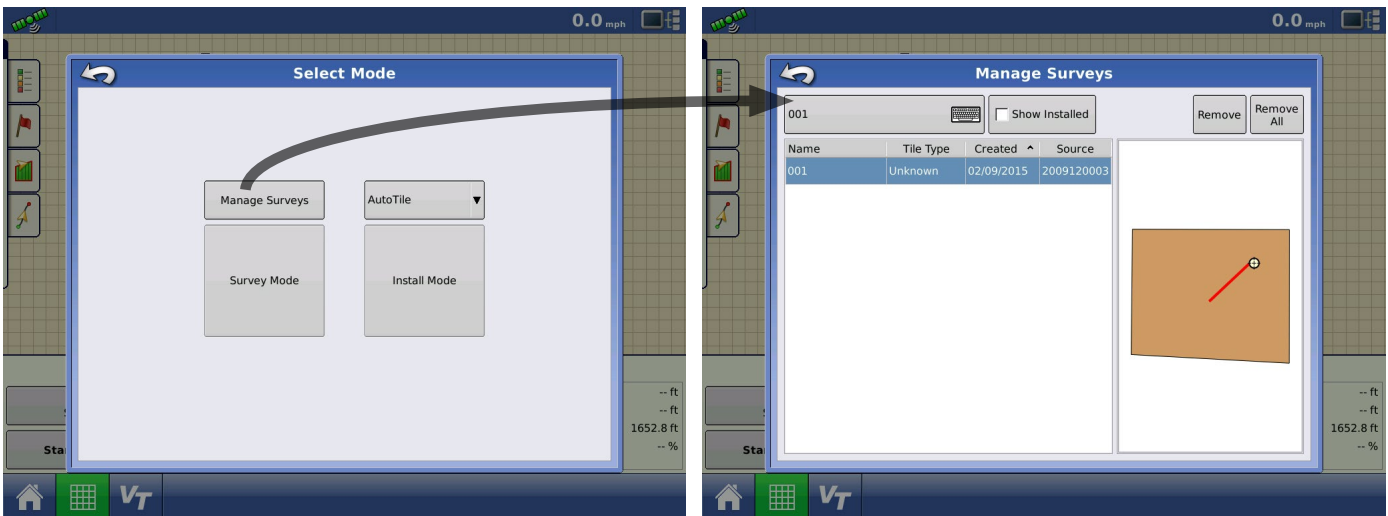
Changes from Survey to Install mode.

Starts and Stops the survey of the tile run.



Optional topography shown above, see topography section of the display manual for more information on how to use.

Press Mode button to view the Select Mode screen. From this screen operator can choose between surveys and installation. Pressing the Manage Surveys button allows operator to view existing surveys.



Name of the survey that the user is getting ready to install.

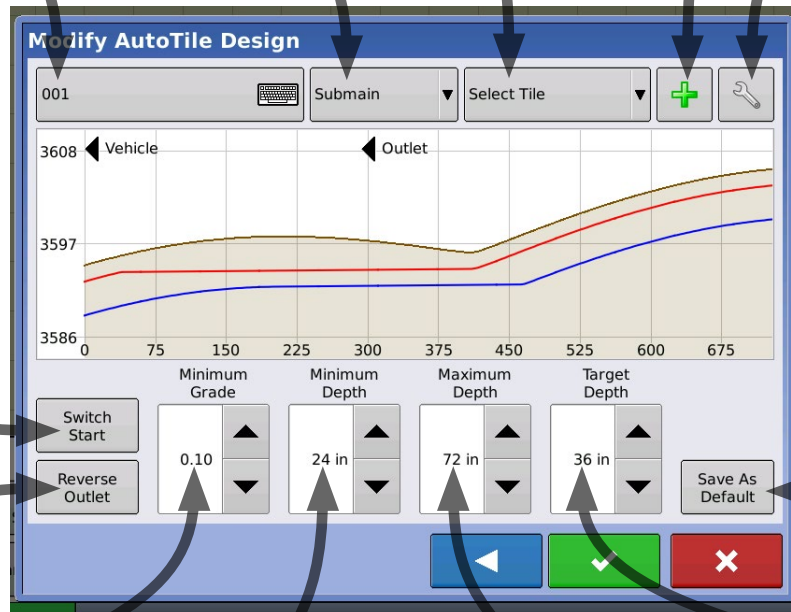
Choose what type of tile you are installing (main, submain, lateral).

Select the size of tile you are installing.

Add new tile and other details about that tile.

Edit details about user's tile.

Press **Switch Start** toward the main.



Saves values entered for grade and depth as the default for the future AutoTile Design screens.

Intellislope defaults outlet to the lowest surveyed elevation. Press **Reverse Outlet** if this is not the case.

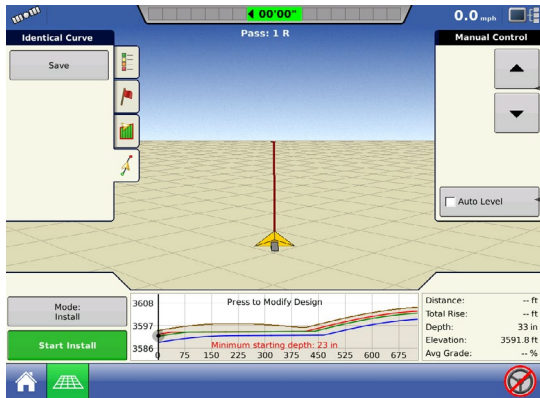
Minimum Grade that the Intellislope solution is allowed to achieve.

Minimum Depth that the Intellislope solution is allowed to achieve.

Maximum Depth that Intellislope is allowed to design in the solution. This value is usually set to the maximum operating depth of the user's plow, if there are no obstructions they are trying to avoid (utility lines, existing tile lines).

Target Depth will be maintained as long as limits on depth are not reached.

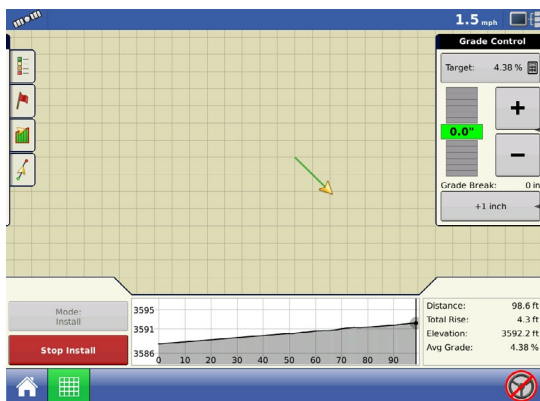
Install Modes



Manual Mode

Manually pitch the plow up or down by pressing these buttons. Use it to get the plow out of the ground at the end of the run and make sure plow and pitched all the way up before surveying the next run. Use arrows to pitch into the ground for calibrating, installing, or manually leveling the plows when lowering plow into connection hole.

Select Auto Level to keep the plow level (plus the start compensation) when lowering into the hole. This is disabled when "Start Install" is pressed.

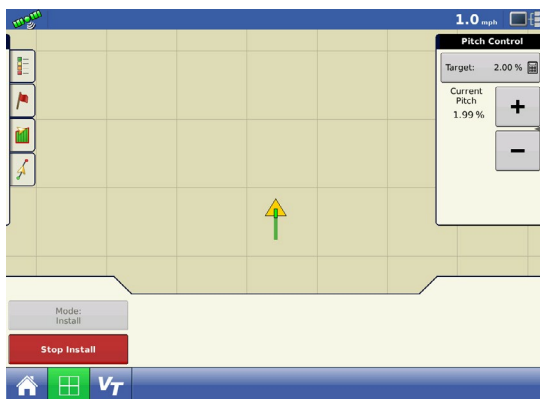


Grade Control Mode

Utilizes the pitch sensor and GPS. This method is similar to using a laser and manual adjustments.

+/- buttons adjust the grade by 0.1%.

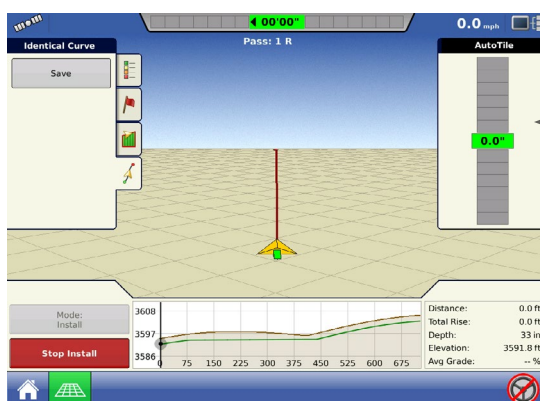
The Grade Break button shifts the target install line up one inch at a time. If the slope of the ground is steeper than the grade set on the plow, the plow will progressively get deeper until the tractor can not pull it or plow can not physically go deeper. To prevent this, user can press the grade break button to raise the plow up while still ensuring water will still flow towards the outlet.



Pitch Control Mode

Utilizes only the pitch sensor, no GPS or manual adjustments.

+/- buttons adjust the target pitch by 0.1%.



AutoTile Mode

Utilizes pitch sensor and GPS and is self-adjusting. Surveying is required for AutoTile.

Plow must be below minimum depth before user can select Start Install.

Guidance line is automatically generated and loaded based off the survey path.