


















































## Autoguidance fault table









ID	Title	Message	Priority	Meaning/Action
AG-055	Input Error	Swath width or offset cannot be changed in automatic. Change will take effect after system is disengaged.		Changing the swath width or offset values also changes the swath pattern. Changing these values will alter the path of the vehicle, therefore automatic operation must be disengaged before swath pattern recalculation can occur.
AG-059	Take control	Operator not seated		Automatic mode disengages when the operator is not seated. An operator must be present at all times.
AG-060	Cannot engage automatic	Autoguidance switch is set to off		Change the switch setting to ON.  On 88 Series combines, ensure that the separator is engaged.
AG-065	Cannot engage automatic	Model must be selected and calibration must be performed.		Press the "CAL" button to go to the "NAV Calibration" screen. Select a vehicle model in the "Vehicle Model" window and/or perform vehicle calibration.
AG-070	Cannot engage automatic	The RowGuide system has lost both GPS and crop position. Automatic operation is not possible.		The RowGuide system is not sensing crop and does not have GPS corrections to operate in automatic mode. Drive the vehicle into crop to enable engagement. Optimal operation also requires a GPS correction. Ensure that the GPS receiver is set to an available correction type and has a clear view of the sky.
AG-075	Take control	The RowGuide system has lost both GPS and crop position. Automatic operation is not possible.		The RowGuide system is not sensing crop and does not have GPS corrections to operate in automatic mode. Drive the vehicle into crop to enable engagement. Optimal operation also requires a GPS correction. Ensure that the GPS receiver is set to an available correction type and has a clear view of the sky.
AG-095	Cannot engage automatic	Vehicle parameters are being loaded. Please wait.		Wait for the action to complete.
AG-100	Cannot engage automatic	Current GPS correction does not allow automatic operation. Ensure receiver is connected properly and has a clear view of the sky.		Automatic steering cannot be used with Beacon or GPS; select Autonomous, HP/XP, RTK, VBS, or WAAS/EGNOS. Ensure that the proper DGPS type is selected. Wait for signal convergence/acquisition. Check the integrity of the wiring between the GPS receiver and the NAV II controller.
AG-105	Cannot engage automatic	Swaths cannot be calculated for the selected swath. Re-record swath or select another.		Create a new swath. Do not back up or drive irregularly in the corners. Use the pause feature to simplify the pattern.










AG-115	Cannot engage automatic	Swath calculations in progress Please wait.		This message only displays when initial swath calculations are in progress. xx% displays to indicate the percentage of completion. Wait until swath calculations are complete.
AG-120	Cannot engage automatic	No swath is within ½ the swath width. Drive closer.		The vehicle is located within a pattern where swaths cannot be generated. This often occurs on the innermost section of a spiral pattern or when the vehicle is beyond the extensions on a curved swath. Create a new straight pattern for the innermost area of a spiral pattern, or drive closer on a curved swath pattern.
AG-124	Take control	The RowGuide system does not have swath data or crop position. Record a swath or drive into crop to allow for engagement.		The RowGuide system is not sensing crop, and swath data is not available at the vehicle's position. Drive the vehicle into the crop or record a swath to enable automatic operation. Record swath data to enable engagement in areas with no crop available (e.g. waterways).
AG-125	Cannot engage automatic	The RowGuide system does not have swath data or crop position. Record a swath or drive into crop to allow for engagement.		The RowGuide system is not sensing crop, and swath data is not available at the vehicle's position. Drive the vehicle into the crop or record a swath to enable automatic operation. Record swath data to enable engagement in areas with no crop available (e.g. waterways).
AG-130	Cannot engage automatic	Must drive at least 1/12th of circle to accurately record swath, and mark B point midway.		For a circle swath, record more than 1/12th ( 8 %) of the circumference, equally spacing the three points on the circumference. Ideally, the points should fall at 0 °, 120 °, and 240 ° of the circle.
AG-135	Cannot engage automatic	End is not near enough to beginning. Increasing min turning radius may help.		Increase the minimum turning radius to clear this condition. If the minimum turning radius cannot be increased, record a new swath.
AG-140	Cannot engage automatic	Reverse operation not allowed		Automatic operation is not supported for this vehicle when a reverse gear is selected. Engage automatic mode only when a forward gear is selected.
AG-145	Cannot engage automatic	Too fast to engage		Current vehicle speed is too high to engage automatic operation. Slow down and then engage.
AG-150	Cannot engage automatic	Please wait. Software version information from NAV II is being obtained.		Wait for version information to be sent to the display. This should complete in a few seconds.
AG-155	Cannot engage automatic	Please move steering wheel before engaging		The vehicle uses steering wheel movement to verify operator presence after start up. Move the steering wheel when requested. If no detection is realized, check the wiring of the manual override sensor.

AG-160	Cannot engage automatic	DGPS not available		Sufficient DGPS position data is not present for engagement. Check the count of available satellites. Wait for convergence or continue to operate manually.
AG-162	Take control	The vehicle has lost direction information. Speed up or slow down to establish direction.		Ensure that the NAV II controller is secured in the proper location and orientation. Change speeds for the vehicle to retrieve good heading information.
AG-163	Cannot engage automatic	Speed up or slow down to establish direction. Continue until direction is established.		The system needs vehicle direction information to engage automatic mode. Drive a short distance at medium speeds to provide vehicle heading. This message only displays when autoguidance is first started.
AG-164	Cannot engage automatic	Speed up or slow down to establish direction. Continue until direction is established.		The system needs vehicle direction information to engage automatic mode. Drive a short distance at medium speeds to provide vehicle heading. This message only displays when autoguidance is first started.
AG-165	Cannot engage automatic	Heading error too high		The vehicle is at an extreme angle to the swath direction when the "Auto" button is pressed. Align the vehicle more closely to the desired swath and press the "Retry" button to engage automatic mode.
AG-170	Cannot engage automatic	Steering wheel movement detected		Steering wheel movement was detected when the "Auto" button was pressed. Without turning the steering wheel, press the "Retry" button to engage automatic mode.
AG-175	Cannot engage automatic	Cross track error too high. Line up vehicle better before engaging.		Cross track error is too high to engage automatic mode. Slow down and align the vehicle more closely to the swath. Press the "Retry" button to engage automatic mode.
AG-180	Cannot engage automatic	DGPS converging using position recall feature. Do not move vehicle until complete.		Position recall is functioning to decrease convergence times for the Omnistar HP/XP signal. Wait until recall is complete to move vehicle.
AG-185	Cannot engage automatic	Too far from recorded swath		The vehicle has traveled farther than <b>8 km (5 miles)</b> from the original swath. Select or create a new field. Record a new swath for the field. Important: Do not record a new swath while in this condition.
AG-190	Cannot engage automatic	See dealer if problem reoccurs. No auto allowed reason code is 0xXXX.		The system cannot engage automatic mode for unspecified reasons. Ensure that the latest software available on the Electronic Service Tool is loaded.
AG-195	Cannot engage automatic	Turn was executed too sharp or fast (unstable).		A turn that exceeds the lateral acceleration safety setting for the machine was executed. Slow down and avoid turning sharply or record a new swath using wider turns.

AG-196	Take control	Turn was executed too sharp or fast (unstable).		A turn that exceeds the lateral acceleration safety setting for the machine was executed. Slow down and avoid turning sharply or record a new swath using wider turns.
AG-200	Cannot engage automatic	Check the position of the NAV II controller		The NAV II controller is installed in the wrong position, preventing the inertials from operating properly. Contact you dealer for proper orientation of the controller in the vehicle and install the controller correctly. Cycle power if the condition does not clear
AG-201	NAV II not detected	Please recycle power. See ops manual if problem continues.		Check connections with the NAV II controller and cycle power. Check vehicle fuses and ensure that the NAV II controller is getting power.
AG-202	No communication with the NAV II	No automatic operation allowed		Check connections with the NAV II controller and cycle power. Check vehicle fuses and ensure that the NAV II controller is getting power.
AG-203	No communication with the NAV II controller	No automatic operation allowed		Check connections with the NAV II controller and cycle power. Check vehicle fuses and ensure that the NAV II controller is getting power.
AG-205	Cannot engage automatic	Key off the system to cycle power on the NAV II controller.		The NAV II controller needs to reset. Turn the ignition switch OFF, allowing the display to perform a complete shut down. Turn the ignition switch ON to power the controller.
AG-210	Cannot engage automatic	Invalid vehicle selected. Check the model and current vehicle application.		The selected model does not match vehicle PIN read by the vehicle's computer. Check the "Display Setup" screen to ensure that the "Current Vehicle" window displays the correct vehicle.
AG-215	Cannot engage automatic	Logging function failure.		An error has occurred in logging data. Ensure that the latest software available on the Electronic Service Tool is loaded.
AG-220	Cannot engage automatic	NAV II controller is operating in simulation mode. Cycle power. If the problem persists, NAV II controller must have software reprogrammed.		The NAV II controller is operating in simulation mode. Cycle power. If the problem persists, the NAV II controller must have its software reprogrammed. Ensure that the latest software available on the Electronic Service Tool is loaded.
AG-225	Cannot engage automatic	NAV II controller is operating in diagnostics mode. Cycle power. If the problem persists, NAV II controller must have software reprogrammed.		The NAV II controller is operating in diagnostics mode. Cycle power. If the problem persists, the NAV II controller must have its software reprogrammed. Ensure that the latest software available on the Electronic Service Tool is loaded.
AG-230	Cannot engage automatic	NAV II controller is operating in factory mode. Cycle power. If the problem persists, NAV II controller must have software reprogrammed.		The NAV II controller is operating in factory mode. Cycle power. If the problem persists, the NAV II controller must have its software reprogrammed. Ensure that the latest software available on the Electronic Service Tool is loaded.

AG-235	Cannot engage automatic	Internal software failure in the NAV II controller. Cycle power. If the problem persists, NAV II controller must have software reprogrammed.		An internal failure has occurred. Cycle power. If the problem persists, the NAV II controller must have its software reprogrammed. Ensure that the latest software available on the Electronic Service Tool is loaded.
AG-240	Take control	Automatic operation not possible - the active swath has been deleted.		The active swath was deleted, either individually or when a grower, farm, or field was deleted. Recreate the swath.
AG-245	Take control	Autoguidance status message to NAV II controller has timed out. If the problem persists, cycle power to clear condition.		The display is no longer sending status messages to the NAV II controller. Wait for a moment or cycle power to reestablish communication. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.
AG-250	Take control	Autoguidance failed to properly send swath information to NAV II. If the problem persists, cycle power to clear condition.		The display is no longer sending status messages to the NAV II controller. Wait for a moment or cycle power to reestablish communication. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.
AG-255	Cannot engage automatic	Autoguidance failed to properly send swath information to NAV II. If the problem persists, cycle power to clear condition.		An error has occurred in sending swath information. Record a new swath, select a new swath, or cycle power. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.
AG-260	Take control	No swath data is available in the NAV II controller. Please select a different swath or record a new one. If the problem persists, cycle power to clear condition.		The NAV II controller has lost swath data. The current swath needs to be resent to the NAV II controller. It may be possible to do this by selecting another swath and then reselecting the swath that was lost. Record a new swath if the error remains. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.
AG-265	Cannot engage automatic	No swath data is available in the NAV II controller. Please select a different swath or record a new one. If the problem persists, cycle power to clear condition.		The NAV II controller has lost swath data. The current swath needs to be resent to the NAV II controller. It may be possible to do this by selecting another swath and then reselecting the swath that was lost. Record a new swath if the error remains. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.
AG-270	Cannot engage automatic	No swath is within ½ the swath width. Drive closer.		The display is no longer sending swath information to the NAV II controller. Continue driving toward the swath. Wait for a moment or cycle power to reestablish communication.
AG-275	Take control	No swath data is available in the NAV II controller. Please select a different swath or record a new one. If the problem persists, cycle power to clear condition.		The NAV II controller has lost swath data. The current swath needs to be resent to the NAV II controller. It may be possible to do this by selecting another swath and then reselecting the swath that was lost. Record a new swath if the error remains. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.
AG-280	Cannot engage automatic	Autoguidance status message to NAV II Controller has timed out. If the problem persists, cycle power to clear condition.		The display is no longer sending status messages to the NAV II controller. Wait for a moment or cycle power to reestablish communication. If the problem persists, change the memory stick and ensure that only the needed software is loaded on the display.

AG-441	Error recording circle	The marked point that has been entered is too close the start point. End point must be marked again farther away from the start point		Record a new circle swath, equally spacing the start point, the midway point, and the end point along the circle. Mark the three points at <b>0 °</b> , <b>120 °</b> , and <b>240 °</b> along the circle circumference for best results.
AG-442	Error recording spiral	The vehicle is not close enough to start. Drive closer or press Done to end recording.		If the swath width and the minimum turning radius have been properly selected, continue driving toward the start point and the spiral will complete and save automatically. If swath width and/or minimum turning radius have not been adjusted, complete the swath manually by pressing Done at the desired location and adjust swath width and minimum turning radius to proper levels. If the spiral is not accepted after these values have been changed, record the spiral again with the updated minimum turning radius and swath width.
AG-443	Error in recorded swath	Circle radius is too large. Recorded swath cannot be used.		Circle radius is limited to <b>32 km (20 miles)</b> Record a circle swath with a smaller radius.
AG-444	Swath error	Turns in the recorded swath are too tight and cannot be adjusted. Decrease the Min Turning Radius or re-record the swath with more gradual turns.		The system cannot calculate tight "S" or "J" curves that do not meet the minimum turn radius. Record the swath again or press the "Edit" button to decrease the value in the "Minimum Turning Radius" window.
AG-445	Swath warning	The created swath may intersect the boundary in some locations. Use caution in areas of the boundary where sharp turns are present.		The boundary contains sharp turns that may allow the swath pattern to intersect the boundary in at least one location. Ensure that the swath width and minimum turning radius settings are correct. Reduce the minimum turning radius setting on the "Navigation" screen if possible. Review the map to see where the swath will intersect the boundary to determine if the path is acceptable. If the created swath is not acceptable, record multiple swaths for sharp curves that are adjacent to boundary edges.
AG-451	Swath data contains gaps	Gaps will be filled in with straight lines.		This message displays if the pause feature was used for greater than <b>1000 m (3280 ft)</b> or if GPS is lost while recording a swath. If the resulting swath pattern is not acceptable, record the swath again.
AG-452	Swath data contains uncorrectable gaps	Re-record swath or select another.		Recorded GPS points are not uniform in direction and the swath cannot be generated. Many times this is caused by pausing the recording and resuming the recording in a location that does not allow the paused area to be calculated correctly. Always resume paused recordings forward of the location where recording was paused. Record the
AG-453	Swath data contains long gaps	Swath cannot be used for curve generation		One point is more than <b>1000 m (3280 ft)</b> from the next in the recorded swath. Check that DGPS signal is available and record the swath again. Do not pause recording for more than <b>1000 m (3280 ft)</b> when recording a swath.

AG-454	Swath has tight turns	Shape of swath will be adjusted for turns to meet the minimum turning radius setting. Press edit to adjust the Min Turning Radius if required.		This can change the recorded swath significantly on turns. Watch for obstructions. Press the "Edit" button to adjust the minimum turning radius if necessary. If the value is changed, swaths will be recalculated according to the new value. Remember: minimum turning radius must be as large as the implement width.
AG-467	Cannot re-mark	Re-mark distance cannot place swath too close to or past the center of circle. Change re-mark.		Re-marking a circle does not change the origin. Also, the implement cannot touch the origin. Re-marking cannot result in swath #1 being within ½ the swath width of the origin of the circle.
AG-468	Cannot re-mark	Swaths cannot be calculated in this region.		Re-mark has been attempted in the internal region of the spiral. Spiral swaths cannot be calculated in most innermost areas and therefore a re-mark cannot be completed here. Remember: re-marking can only be done inside a spiral pattern.
AG-469	Cannot re-mark	Too far from recorded swath		The vehicle is more than <b>8 km (5 miles)</b> from the recorded swath. Drive closer to re-mark or record a new swath.
AG-475	Cannot engage automatic	Swath memory full. Resetting may help. Reset or record a new swath.		A large number of swaths have been calculated based on the recorded swath. All memory allocated for this swath is full. Record a new swath while engaged on an already calculated swath. Otherwise, reset and record a new swath.
AG-482	Swath warning	Swath data crosses over or near itself. Sections of the recorded swath have been deleted.		The crossed sections of the recorded swath have been deleted. If the resulting swath pattern is not acceptable, record a new swath. (Remember: the path of the vehicle with its implement or header cannot cross itself or come within one swath width of itself when recording a swath.)
AG-484	Swath error	End is not near enough to beginning. Increasing min turning radius may help.		A spiral swath is considered closed (complete) when the vehicle returns to within the minimum turning radius of any of the first 20 points of the spiral. Continue driving closer to the beginning of the spiral to automatically complete the spiral. Check that the minimum turning radius is set correctly.
AG-862	Cannot engage automatic	Nav controller cannot communicate with the GPS receiver. Check RS232 wiring from GPS receiver to NAV II controller.		There is no communication between the GPS receiver on the vehicle and the autoguidance hardware. Check RS232 lines between the GPS receiver and the NAV II controller. Check the harness for proper routing and bent or broken pins.
AG-880	Cannot engage automatic	Automatic configuration of GPS receiver failed. Cycle power to clear condition.		The GPS receiver is not functioning properly. If the problem persists, ensure that the latest software available on the Electronic Service Tool is loaded.