

To: All Distributors
Regional Sales Managers and National Sales Manager

From: Technical Support

Model: Labrie Expert, Automizer & Minimax; Wittke SuperDuty, Starlight

Subject: Multiplex Module Connections

An item of importance on the multiplex control system is good, reliable connections at the multiplex modules. The following pages provide guidance on properly checking the connections and module condition.

Please contact the LabriePlus Service Department at (800) 231-2771 with any questions or for further information.

Checking Multiplex System Connection Integrity

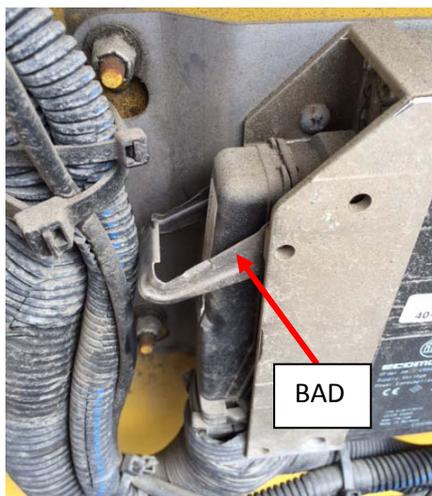
When diagnosing Multiplex module connectivity issues (fault “Node XX Disconnected” on the display) on Labrie Expert, Automizer and Minimax units; as well as Wittke SuperDuty and Starlight units, basic checks must be made.

Verify that the module is correctly receiving/sending inputs and outputs; locate the LED light near the wire connector; a module operating correctly will have a green, blinking light (commonly referred to as a “heartbeat”). If solid green light exists, not blinking, the module is not running and will need to be restarted. If there is a fast-paced green blinking light, then the module has lost its firmware and will need to be reprogrammed. If there is no light present, then the module is not powering up/communicating, and further diagnostics on the wire routing will be required.



Once module light status condition has been verified, the connector condition should be checked:

- 1.) Check for proper connection to module



- 2.) Check for any moisture or corrosion in the connector or on the module terminals. Also, it is highly recommended that dielectric grease be applied to connector. Check the condition of the harness and ensure that it is not secured too tight with tie-wraps, which may pull the wires back within the connector.



- 3.) Check all ignition (power) and grounds to the module and also check the CAN_H & CAN_L side to the module.
- Verify all power supplies (IGN) to the module, if there is a suspicion that power is intermittent check the ignition relay, which is located next to the battery box.
 - Verify that grounds are good to the module. Need to isolate and check the resistance on the individual grounds.
 - Check the CAN_H & CAN_L wires and verify that there is 60 ohms resistance. If there is not, this will cause connectivity issues to the specific module.