T3RRA

10.6 | CANBUS / Communication Issues

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Issue	Possible Cause	Recommended Action
ISOBUS communication unavailable	ISOBUS harness disconnected	Verify ISOBUS harness connections and adapter installation
ISOBUS communication unavailable	Incorrect ISOBUS connection point	Verify COMMAND is connected to the tractor ISOBUS network
ISOBUS communication unavailable	Incorrect ISOBUS adapter used	Verify the correct ISOBUS adapter harness is installed
ISOBUS communication unavailable	ISOBUS network not powered	Verify the tractor ISOBUS network is active
Tractor CAN communication unavailable	Incorrect Tractor CAN connection	Verify COMMAND is connected to the intended Tractor CAN network
Tractor CAN communication unavailable	Incorrect Tractor CAN baud rate	Verify Tractor CAN baud rate configuration within Level COMMAND
Intermittent CANBUS virtual terminal or device dropouts	Loose connector or damaged harness	Inspect CANBUS harnessing and connectors
Intermittent CANBUS virtual terminal or device dropouts	Poor CANBUS termination	Verify correct CANBUS termination resistance and network layout
Intermittent CANBUS virtual terminal or device dropouts	Incorrect CANBUS network selected	Verify all CANBUS devices are connected to the intended network
GNSS receiver intermittently disconnects	CANBUS backbone or branch wiring issue	Inspect CANBUS backbone and branch harness connections
IMU intermittently disconnects	CANBUS backbone or branch wiring issue	Inspect CANBUS backbone and branch harness connections
SCV controller intermittently disconnects	CANBUS backbone or branch wiring issue	Inspect CANBUS backbone and branch harness connections
No communication with the SCV controller	Incorrect hydraulic interface selected	Verify the correct hydraulic interface is configured within Level COMMAND
No communication with the SCV controller	Incorrect SCV CAN baud rate	Verify SCV CAN baud rate configuration within Level COMMAND
No communication with the SCV controller	Unsupported tractor or SCV configuration	Verify tractor compatibility and supported hydraulic interface type
Tractor SCVs operate incorrectly	Incorrect hydraulic interface configuration	Verify configured hydraulic interface type and machine profile
CAN joystick not detected	Incorrect CANBUS connection	Verify joystick connection to the intended tractor CANBUS
CAN joystick not detected	Unsupported joystick configuration	Verify joystick compatibility and configuration

Issue	Possible Cause	Recommended Action
Level COMMAND reports no communication with the ECU	ECU power or ground issue	Verify ECU power, ground and fuse connections
ECU powers on but does not communicate with Level COMMAND	Incorrect ECU firmware version	Verify ECU firmware version compatibility
ECU powers on but does not communicate with Level COMMAND	Incorrect CANBUS or Ethernet configuration	Verify COMMAND communication configuration and harnessing
Multiple CANBUS systems behave unpredictably	Connected to incorrect CANBUS network	Verify COMMAND is connected only to the intended CANBUS network
Multiple CANBUS systems behave unpredictably	Incorrect adapter or CANBUS bridging	Inspect CANBUS adapters and network interconnections
External controller communication lost	Incorrect controller software version	Verify external controller software compatibility
Multiple CANBUS systems behave unpredictably	Connected to incorrect CANBUS network	Verify COMMAND is isolated to the intended CANBUS network
Multiple CANBUS systems behave unpredictably	CANBUS bridging or adapter issue	Inspect adapters and network interconnections
CANBUS diagnostics unavailable	Incorrect diagnostic connection point	Verify diagnostic adapter connection and network selection
CANBUS diagnostics unavailable	Unsupported CANBUS protocol	Verify compatibility with the connected CANBUS system