

Technical Information

Stoll Frontlader



Calibrate and check the Eco Pro joystick

Scope: Stoll EcoPro proportional control

Symptom: System cannot be activated

Possible cause: Joystick is defective

The Stoll EcoPro system has a safety switch mounted in the cabin (activation switch) and a joystick. The other components such as job computer, large parts of the wiring and the hydraulic valve are mounted outside of the cabin.

If the safety switch in the cabin lights up but cannot be activated, the joystick must be calibrated.



Calibration procedure

- Press and hold down the yellow and green button
- Move the joystick forwards (lowering direction)
- Switch the ignition on (power supply). The LED in the safety switch flashes quickly
- Move the joystick to all four end positions in one go, move it back to the middle and wait for 1 second. The yellow and green buttons must remain pressed down during this time.
- Release the yellow and green buttons on the joystick. After 2 seconds, the system detects and stores the neutral position
- Switch off the ignition and restart the system

If the joystick has not been successfully calibrated, the joystick should be checked.

To test it, it is advisable to disassemble the joystick from the tractor and check it on a suitable work surface. In the event of deviations, the joystick must be replaced.

The following is required for the test:

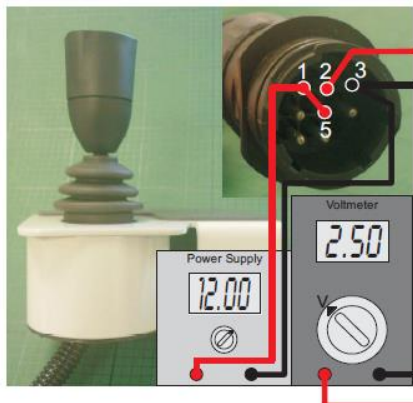
- DC power source 12 V constant power supply or equivalent (e.g. a battery)
- Multimeter, alternative voltmeter (measuring range up to 20 V or more)
- Corresponding suitable measuring lines

Technical Information

Stoll Frontlader



Check the middle position of the Y-axis (lifting-lowering)



Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 2 on the connector

Measuring line negative on pin 3 on the connector

Target result 2.5 volts

Check the lifting position of the Y-axis (lifting-lowering)



Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 2 on the connector

Measuring line negative on pin 3 on the connector

Target result 0.5 volts

Check the lowering position of the Y-axis (lifting-lowering)



Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 2 on the connector

Measuring line negative on pin 3 on the connector

Target result 4.5 volts

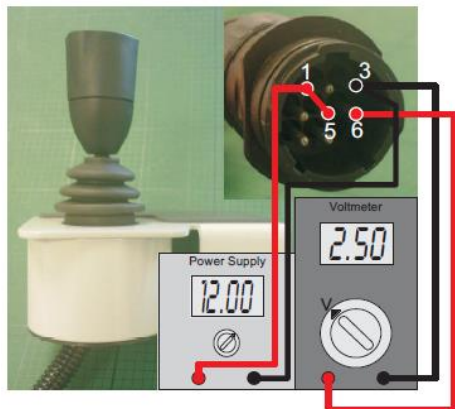
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Technical Information

Stoll Frontlader



Check the middle position of the X-axis (dumping-scooping)



Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 6 on the connector

Measuring line negative on pin 3 on the connector

Target result 2.5 volts

Check the scooping position of the X-axis (dumping-scooping)



Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 6 on the connector

Measuring line negative on pin 3 on the connector

Target result 4.5 volts

Check the dumping position of the X-axis (dumping-scooping)



Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 6 on the connector

Measuring line negative on pin 3 on the connector

Target result 0.5 volts

TI-2.3-14-02_EN

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Technical Information

Stoll Frontlader



Check button: blue ●

Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 4 on the connector

Measuring line negative on pin 3 on the connector

Target result 12 volts

Check button: yellow ●

Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 7 on the connector

Measuring line negative on pin 3 on the connector

Target result 12 volts

Check button: green ●

Power supply positive on pin 1 and 5 on the connector

Power supply negative on pin 3 on the connector

Measuring line positive on pin 8 on the connector

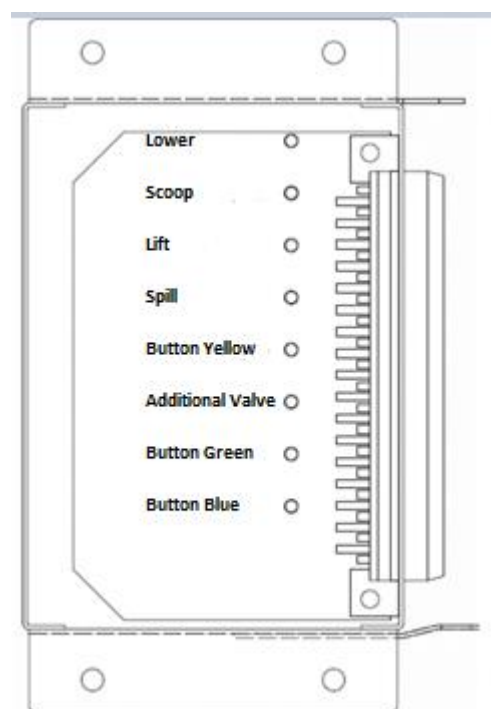
Measuring line negative on pin 3 on the connector

Target result 12 volts

Led display on the job computer

The switched signal is displayed here

See picture opposite



TI-2.3-14-02_EN