

Technical information



STOLL front loaders

Relay wiring harness for ProControl

Scope:	Older Stoll front loader models in conjunction with ProControl
Symptom:	Failure of individual or all electronic functions
Possible cause:	Increased current consumption, relay wiring harness not installed

The ProControl has been developed for use with the current front loaders of the FZ ProfiLine series and the CL ClassicLine series. Also the automatic supervision function of the front loader for short-circuit to positive, short-circuit to negative (earth) and cable break monitoring are designed for the FZ and CL series.

The older Stoll front loaders e.g. from the Robust F series can also be easily operated with the ProControl control. These require a relay wiring harness Part no. 3627330.

Without the relay wiring harness, the system triggers a safety shutdown due to the higher power consumption of the solenoid coils on the front loader. These are intended for existing errors (FZ and CL).



Here are 2 versions in the market, on the left, the new version and on the right, the older version. The function is completely identical for both relay wiring harnesses. The harnesses work off of semiconductor technology.

The relay wiring harness can be easily integrated into the ProControl, it is simply mounted between the DEUTSCH connector harness (ProControl) and the 7-pole connector.

If an electrical plug connection is integrated in the Hydrofix, the plug from the cable harness must be replaced with the plug from the relay wiring harness. Follow the instructions listed below.

The relay wiring harness requires an additional power supply with continuous current (contact 30), directly from the battery if possible. To create this power supply, there is a "red cable" with a fuse in the set.

This cable is installed in slot 8 in the wiring harness of the ProControl.

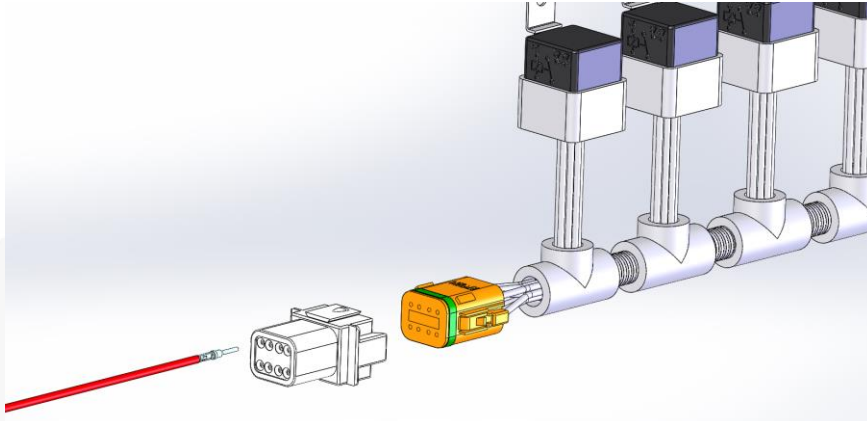
To install it, pull the green safety wedge, insert the contact until it clicks into place and then insert the safety wedge again.

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Once the relay wiring harness is installed, the programming of the ProControl must be changed. This is done using the joystick. The following steps must be followed without fail:

- Activate the programming mode: Pull the joystick towards the lifting function and press the blue button and hold both. Turn on the ignition. Keep the joystick and button pressed until the “On/Off” LED flashes quickly
- Press the button for the implement locking mechanism (S3)
- Press the S3 button again
- Now the LED on the S3 button must light up permanently
- Switch off the ignition.

Prog-Modus – Ebene 3:

für:

- Real³
- Druckentlastungen
- Relaisschaltung (Ausr. 3627330)



Taste drücken

LED blinkt normal



für Relaisschaltung



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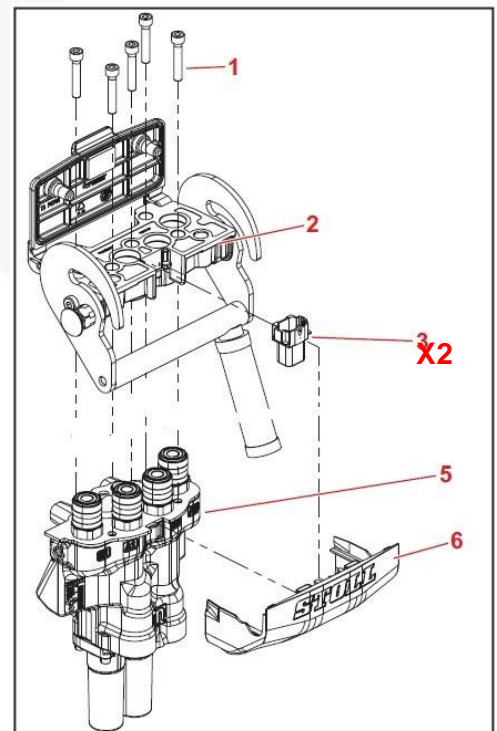
Conversion of Pro Control to relay wiring harness

Caution:

This instruction manual only refers to the “Electrical system integrated in the Hydrofix” version. If you have a 7-pole connector, you do not need to follow these instructions. In the case of the latter, the instructions enclosed with the relay wiring harness apply.

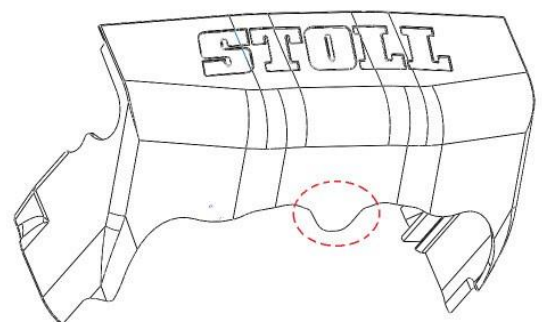
Disassembly:

1. Unscrew the five screws (1) on the Hydrofix.
2. Remove the Hydrofix (2) together with front cover (6).
3. Take the electrical connector out of the cable end (X2)



Modification of the front cover:

1. On the front cover remove the “lug” so far until the corrugated tube of the relay wiring harness can pass through.



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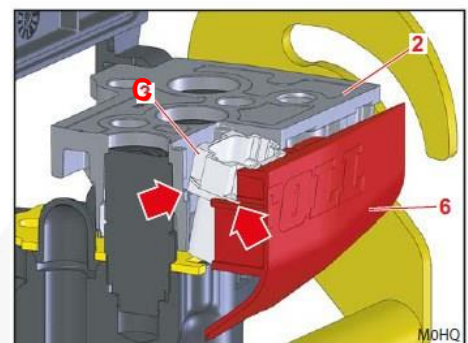
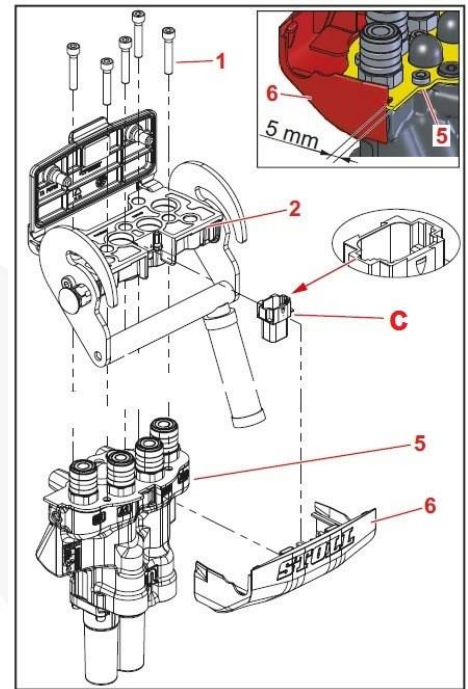
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Assembly:

1. Push the front cover (6) onto the valve (5), approx. 5 mm in front of the plate edge.
2. Insert the electrical connector from the cable end (c) of the relay wiring harness on the front cover (6), do not route the cable (7) as shown in the picture, but downwards through the cutout in the front cover.
 - The groove of the connector (c) points to the Hydrofix lower part (2), and the spring points to the front cover (6).
 - Make sure that you are not crushing the cable!
3. Push the Hydrofix lower part (2) onto the valve, but not all the way down.
4. Set the connector from the cable end (c) at a slight angle so that it slides into the guides and support plates when the front cover and the Hydrofix upper part are joined together (see arrows in the picture below).
5. Push the front cover (6) in all the way and at the same time carefully push the Hydrofix lower part (2) downwards.
6. Attach the Hydrofix lower part (2) with the 5 screws (1):
 - Tighten the middle screw first.
 - Tighten the screws evenly.
7. Connect the other end of the relay wiring harness to the cable end connector (X2) until it clicks audibly into place.
8. Programming the controller on the relay wiring harness.



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