

Technical Information

Stoll Frontlader



Pin assignment Pro Control

Applies to:	Front loader with Pro Control
Symptom:	functional failure
Possible cause:	damage or short circuit in the wiring harness ID no. 1438620

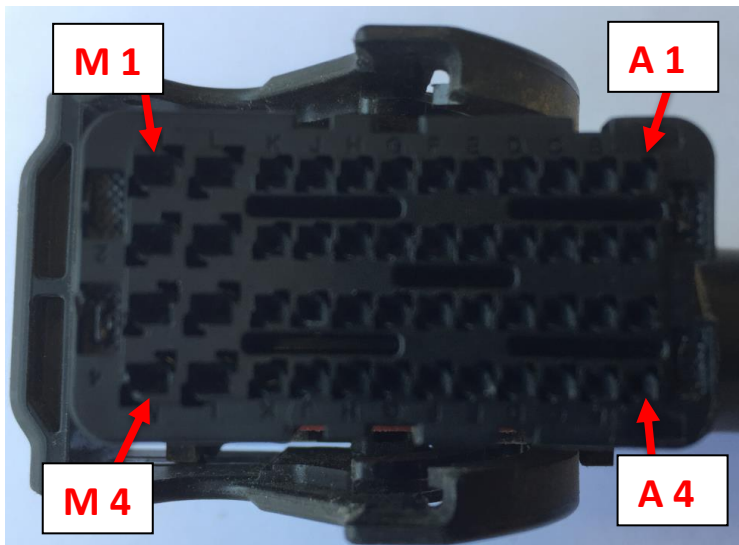
In agricultural use of a STOLL front loader in connection with an electrically controlled proportional valve ProControl, the wiring harness (peripheral cable) can be damaged due to suboptimal cable routing or external influences. This can be an interruption in the cable or a short circuit (to plus, to minus or to another cable).

Check the resistance of the cable from the component to the central plug on the controller (control unit). The contacts are to be measured according to the attached connection plan. It is also advisable to carry out a short-circuit test.

Only suitable multimeters or oscilloscopes are permitted for measurements on the electrical system!

There are two manufacturers of the wiring harness, which can be identified most quickly by the size of the fuses F1-F4:

- Version with "Kabel Weiß" **Standard** blade fuses
- Version „Starz“ with **Mini** blade fuses



Picture: **Plug X1** at the Controller

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Function/ connector plug	Pin in the Plug	Pin in the Controller Plug X1 48pins (additional connections to other plugs)
12 V „Power“ terminal 30 red wire Fuse F1, 2 Amp (Power supply Controller Memory)		X1 L1
12 V „Power“ terminal 30 red wire Fuse F1, 2 Amp (Power supply Controller And valves)		X1 L2 X1 M1 X1 M2
12 V „Ignition“ terminal 15 Black wire Fuse F2, 10 Amp (Power supply X5-F, X6-F, X0-F über X7-F)		(X7-F 3)
12 V „Ignition“ terminal 15 Black wire Fuse F3, 5 Amp (Power supply Joystick)		(X1 2)
12 V „Ground“ terminal 31		X1 L3 X1 L4 X1 M3 X1 M4 (X2 7) (X1 1) (X7-F 2) (X6-F 2) (X5-F 2) (X0-F 2)
Valve for lifting A1	XA1 1 XA1 2	X1 H1 X1 B1 (XB1 2) Version Manufacturer Starz X1 B1 (XA2 2, XB1 2, XB2 2) Ver. Manufacturer Weiss
Valve for lowering B1	XB1 1 XB1 2	X1 G1 X1 B1 (XA1 2) Version Manufacturer Starz X1 B1 (XA1 2, XA2 2, XB2 2) Ver. Manufacturer Weiss
Valve for scooping A2	XA2 1 XA2 2	X1 F1 X1 A1 (XB2 2) Version Manufacturer Starz X1 B1 (XB2 2, XA1 2, XA2 2) Ver. Manufacturer Weiss
Valve for dumping B2	XB2 1 XB2 2	X1 E1 X1 A1 (XA2 2) Version Manufacturer Starz X1 B1 (XB1 2, XA1 2, XA2 2) Ver. Manufacturer Weiss

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Function/ connector plug	Pin in the Plug	Pin in the Controller Plug X1 48pins (additional connections to other plugs)
Joystick XJ	XJ 1 XJ 2 XJ 3 XJ 4	(Terminal. 31) (Terminal. 15 (Fuse F3, 5 Amp)) X1 C2 und X1 D2 (CAN HIGH) X1 B2 und X1 A2 (CAN LOW)
Additional function X0 (Walvoil OC and LSP „Y0“ Connection)	X0-F 1 X0-F 2 X0-F 3 X0-F 4	X1 K2 (Terminal. 31) X1 E4 (X5-F 3, X6-F 3, X7-F 4) X1 D4
Relay additional function X7-F (activates X0-F, X5-F, X6-F)	X7-F 1 X7-F 2 X7-F 3 X7-F 4	X1 F2 (Terminal. 31) (Terminal. 15 (Fuse F2, 10 Amp)) X1 E4 (X5-F 3, X6-F 3, X0-F 3)
Relay for Comfort-Drive X5-F	X5-F 1 X5-F 2 X5-F 3 X5-F 4	X1 G2 (Terminal. 31) X1 E4 (X6-F 3, X7-F 4, X0-F 3) X1 B4 (X2 5)
Relay for hydro-lock X6-F	X6-F 1 X6-F 2 X6-F 3 X6-F 4	X1 E2 (Terminal 31) X1 E4 (X5-F 3, X7-F 4, X0-F 3) X1 C4 (X2 6)
Connecting cable for 7-Pin socket or 8-Pin Deutsch-Plug	X2 1 (br) X2 2 (bl) X2 3 (bu) X2 4 (wh) X2 5 (ye) X2 6 (rd) X2 7 (gn) X2 8 ()	X1 C1 [4th service] X1 D1 [3rd service] X1 K1 [Quick-Dump] X1 J1 [Re-Scooping/RTL] X5-F 4 [Comfort-Drive] X6-F 4 [Hydro-Lock] (Terminal. 31) (blank) [or Power supply for Relay-wiring-harness Term.30 or Term.15] Not for FZ/FS]

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Term. in the Controller Plug X1 48pins	Connector plug and contact
X1 A1	XB2 2 (Manufact. Starz), XA2 2 (Manufact. Starz), blank (Manufact. Weiss)
X1 B1	XA1 2, XB1 2, XB2 2 (Manufact. Weiss), XA2 2 (Manufact. Weiss)
X1 C1	X2 1 [4th service]
X1 D1	X2 2 [3rd service]
X1 E1	XB2 1
X1 F1	XA2 1
X1 G1	XB1 1
X1 H1	XA1 1
X1 I1	blank
X1 J1	X2 4 [Re-scooping/RTL]
X1 K1	X2 3 [Quick-Dump.]
X1 L1	12V Power Term.30, F1 2 Amp
X1 M1	X1 L2, X1 M2, 12V power Term.30, F4 20 Amp
X1 A2	X1 B2, XJ 4 (CanLow)
X1 B2	X1 A2, XJ 4 (CanLow)
X1 C2	X1 D2, XJ 3 (CanHigh)
X1 D2	X1 C2, XJ 3 (CanHigh)
X1 E2	X6-F 1
X1 F2	X7-F 1
X1 G2	X5-F 1
X1 H2	Blank
X1 I2	Blank
X1 J2	Blank
X1 K2	X0-F 1
X1 L2	X1 M1, X1 M2, 12V power Term.30, F4 20 Amp
X1 M2	X1 M1, X1 L2, 12V power Term.30, F4 20 Amp
X1 A3	Blank
X1 B3	Blank
X1 C3	Blank
X1 D3	Blank
X1 E3	Blank
X1 F3	Blank
X1 G3	Blank
X1 H3	Blank
X1 I3	Blank
X1 J3	Blank
X1 K3	Blank
X1 L3	X1 M3, X1 L4, X1 M4, Ter.31 ground, X2 7, XJ 1, X0-F2, X5-F2, X6-F2, X7-F2
X1 M3	X1 L3, X1 L4, X1 M4, Ter.31 ground, X2 7, XJ 1, X0-F2, X5-F2, X6-F2, X7-F2

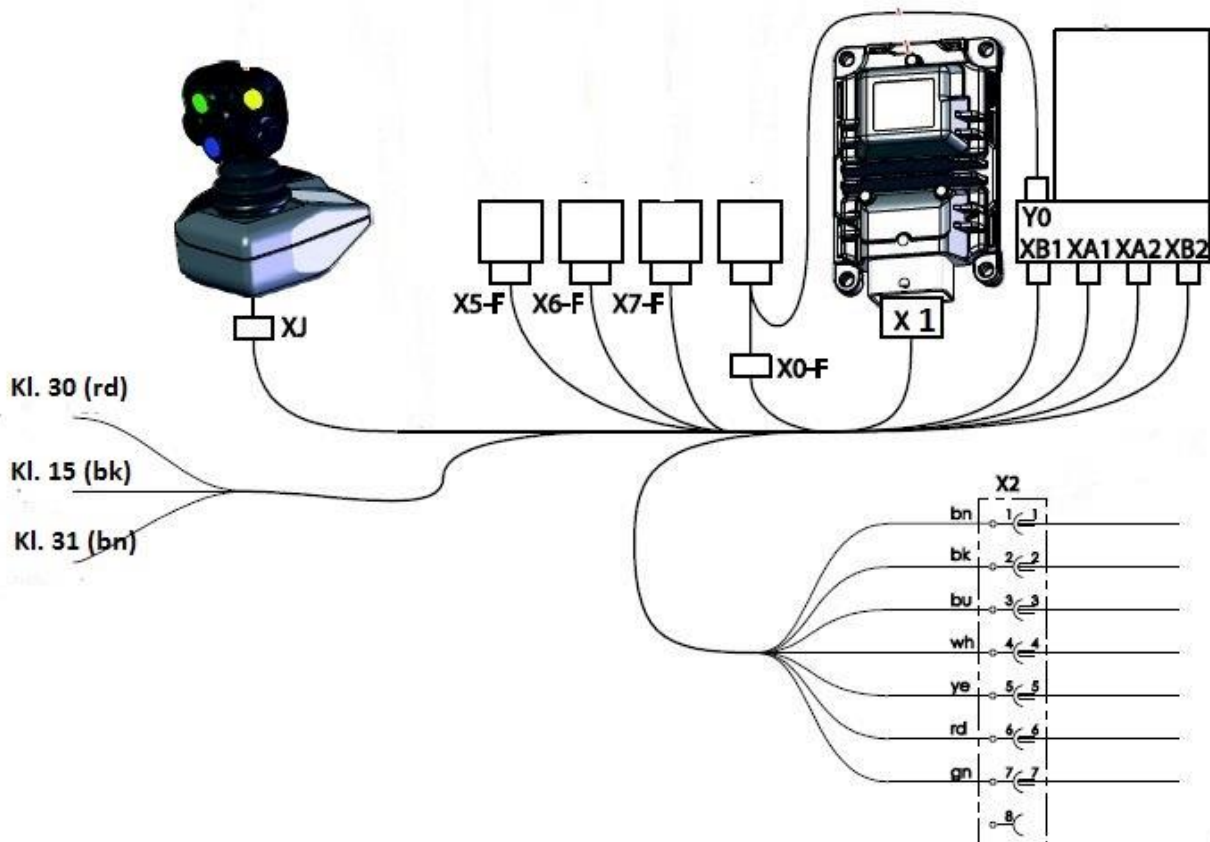
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Term. in the Controller Plug X1 48pins	Connector plug and contact
X1 A4	Blank
X1 B4	X5-F4, X2 5 [ComfortDrive]
X1 C4	X6-F4, X2 6 [HydroLock]
X1 D4	X0-F4
X1 E4	X0-F3, X5-F3, X6-F3, X7-F4
X1 F4	Blank
X1 G4	Blank
X1 H4	Blank
X1 I4	Blank
X1 J4	Blank
X1 K4	Blank
X1 L4	X1 L3, X1 M3, X1 M4, term.31 ground, X2 7, XJ 1, X0-F2, X5-F2, X6-F2, X7-F2
X1 M4	X1 L3, X1 L4, X1 M3, term. 31 ground, X2 7, XJ 1, X0-F2, X5-F2, X6-F2, X7-F2



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