

Title:	^{e:} Fuse on Controller Board Blows				
					0111
Date in:		Response:	Model:	Author:	
2004-0	9-09	2004-09-09	STX40	СМа	

Q:

A customer is having trouble with unit at NY, it is a STX40, apparently the fuse that is located on the main control board is blowing. To me it looks like this fuse is protecting the cooling or heating circuit, AC line but I can not find it in the documentation that I have. I asked the guy to disconnect the plug that is connecting the heating and cooling and see it the fuse stays OK, this way we can start isolating the circuit or PCB problems if any. He did mention that this unit had refrigeration problem in the past but some maintenance person replaced some component and it worked again.

A:

The fuse on the Controller Board protects the 24V part only. The only heater that goes through this fuse is the Gate heater. They should disconnect the D-Sub connectors at the module first. See attached picture.



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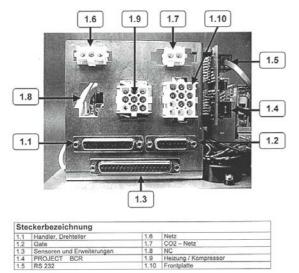
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Stecker Übersicht

Modul 1.xx – Externe Anschlüsse



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Von	Bezeichnung	Nach	Farbe		Farbe	Nach	Bezeichnung	Von
von	Dezectioning	- The off		D-Sub 25 polig male				
4.8.3	Pit Det off PP Sensor	1.1.1	wtpk wtbk		- wtye	1.1.14	NC Mot Shvi -	-
4.8.20	+24V NC GND	1.1.3 1.1.4 1.1.5	- rd -	0,0"	bngn gy bk	1.1.16 1.1.17 1.1.18	Mot Shvi + Sw Turn IN Shvi Front	4.8.14 4.8.23 4.8.19
4.8.21 4.8.22 4.8.11 4.8.15 4.8.16 4.8.24 4.8.25 -	Stp Turn C1 Stp Turn B1 Stp Turn D1 Stp Lift A2 Stp Lift C2	1.1.6 1.1.7 1.1.8 1.1.9 1.1.10 1.1.11 1.1.12 1.1.13	bu pk wtgy wtgn rdbu ye gn -	0 ⁵ 0 ¹⁹ 0 ⁷ 0 ²⁰ 0 ⁹ 0 ²¹ 0 ¹⁰ 0 ²² 0 ¹⁰ 0 ²² 0 ¹⁰ 0 ²³ 0 ¹⁰ 0 ²⁴ 0 ¹⁰ 0 ²⁴	vt gybn gypk - yebn bn wt	1.1.19 1.1.20 1.1.21 1.1.22 1.1.23 1.1.24 1.1.25	ShvI Back Turn Safe Z-Lift 0 Pit Det 1 Stp Lift B2 Stp Lift D2	4.8.18 4.8.10 4.8.17 - 4.8.12 4.8.26 4.8.27

Steckeransicht von Bestückungs Seite

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LICONIC INSTRUMENTS	
INSTRUMENTS	

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HR								
Von	Bezeichnung	Nach	Farbe	Farbe D-Sub 37 polig male		Nach	Bezeichnung	Von
				\bigcirc				
2.4.22	+24V (Disp)	1.3.1	wt	$\left[\begin{array}{c} 0^{1} \\ 0^{2} \end{array} \right]$	bn	1 2 20	+24V (Türsch)	4.3.1
2.4.25	GND (Disp)	1.3.2	bn .		bn bu	1.3.20	+24V (Tursch) GND (Türsch)	4.3.2
2.4.9	Temp (Disp)	1.3.3	gn		bu bk	1.3.21		4.3.3
2.5.9	RH (Disp)	1.3.4	ye		bk bn	1.3.22	- 0 (9.1.1
2.6.9	CO2 (Disp)	1.3.5	gy		wt	1.3.23	,	9.1.1
2.7.9	KTY (Disp)	1.3.6	-		an	1.3.24		9.1.2
-	NC	1.3.7	-		3		Pump (CO2 Mod)	9.1.3
-	NC	1.3.8	-		ye bu	1.3.20		3.4.5
-	NC	1.3.9		0° 0 ²⁷ 0° 0 ²⁸ 0° 0 ²⁸	rd		+5V (BCR)	10.1.
-	NC	1.3.10	-			1.3.29		3.5.9
4.4.1	+24V (Wasserst)	1.3.11	bn	0 ¹¹ 0 ²⁹ 0 ¹² 0 ³⁰	gn wt	1.3.29		3.5.1
4.4.2	GND (Wasserst)	1.3.12	bu	0 ¹² 0 ³¹	bn	1.3.30		3.5.2
4.4.3	Signal (Wasserst)	1.3.13	bk	0 ¹³ 0 ³¹ 0 ¹³ 0 ³²		1.3.31		3.5.2
-	NC	1.3.14		0 ³ 0 ³² 0 ⁴ 0 ³² 0 ⁵ 0 ³³	-	1.3.32		-
4.5.2	GND (Vent HC)	1.3.15	bn [-0°04	ye	1.3.33		3.5.4
4.5.1	+24V (Vent HC)	1.3.16	wt 🕇	0 [°] 0 ³⁴ 0 ⁶ 0 ³⁵ 0 ⁷ 0 ³⁵	gy -			3.5.6
1.3.15	Brücke	1.3.17	bn L	0 ⁷ 0 ³⁵	pk	1.3.35		3.5.6
1.3.16	Brücke	1.3.18	wt L	-0°°°3″	bu .	1.3.36	1	3.5.7
	NC	1.3.19	-	0 ¹⁹ 0 ³⁷	rd	1.3.37	+24V (Transf)	3.3.8



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LICONIC INSTRUMENTS

1.2 Gate
 I.2 Gate

 IC HC HR DC

 Von
 Bezeichnung

 Nach
 Farbe

 D-Sub 15 polig

 male
Farbe Nach Bezeichnung Von Ο 01 7.1.1 Motor + 1.2.1 rd 1.2.9 NC 7.1.2 Motor -1.2.2 bk 1.2.10 NC 7.1.8 GND 1.2.3 bu 1.2.11 NC 7.1.6 Closed 1.2.4 gn 1.2.12 NC 7.1.7 Opend 1.2.5 ye 1.2.13 + 70C 7.1.5 br 7.1.3 Heater wt 1.2.6 1.2.14 NG 7.1.4 Heater 1.2.7 gy 1.2.15 NC - NC 1.2.8 Ο

Steckeransicht von Bestückungs Seite

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