Quick Start

Veni

Vidi

MRL

Mini

IGF Link Support:
03 9401 4744

Before installation

- Verify that the correct material is delivered (quantities, dimensions etc) according to the packing list.
- Verify that the inside of the tank is clean and free from water.

If anything is missing or incorrect, contact IGF Link immediately.

MOUNTING ORDER

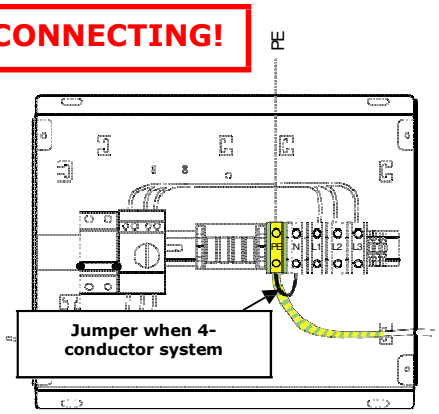
WARNING! THERE MUST NOT BE ANY VOLTAGE WHEN CONNECTING!

See last page for additional documents

1. Place the hydraulic unit in the machine room and fill it with the supplied hydraulic oil.

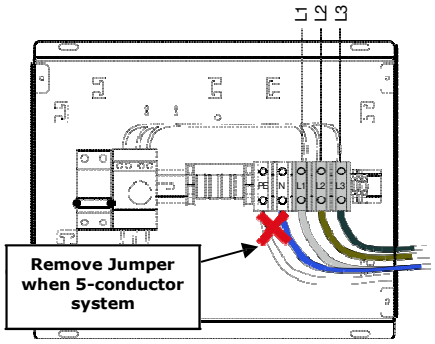
2. Connect incoming ground (PE) to the Connection box (or to the Control unit if the Connection box is excluded).

Verify all ground wirings in Connection box and Control unit.



***Pic.2**: Connect incoming ground to the Connection box*

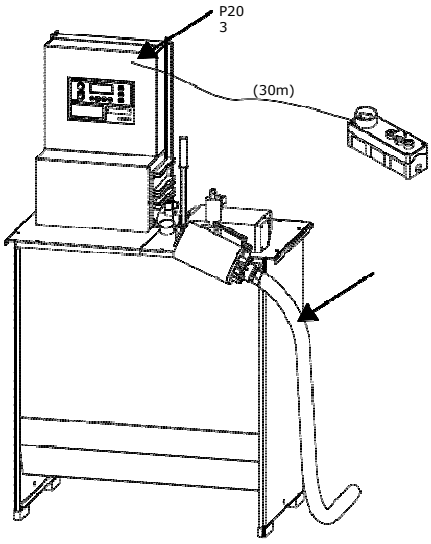
3. Connect the 3 incoming main phases.
(+ ev. neutral but if so, remove the jumper between incoming ground (PE) and neutral (N) and measure the resistance between PE-N. It shall be less than 10Ω. If not, contact the Housekeeper before continued work.)



***Pic.3**: Connect incoming main phases*

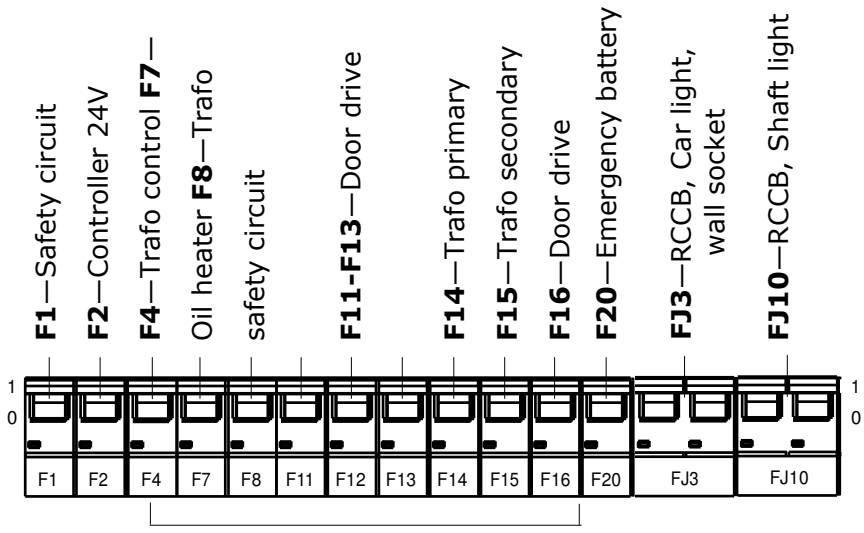
4. Connect the oilhose with the shut-off valve and connect the recall handle* to terminal P203.

***** The recall handle is not included in the delivery, it is a installation tool. Order from Hydroware, art.nr.: 1200024
When necessary, the handle on the Cabin node can be used.



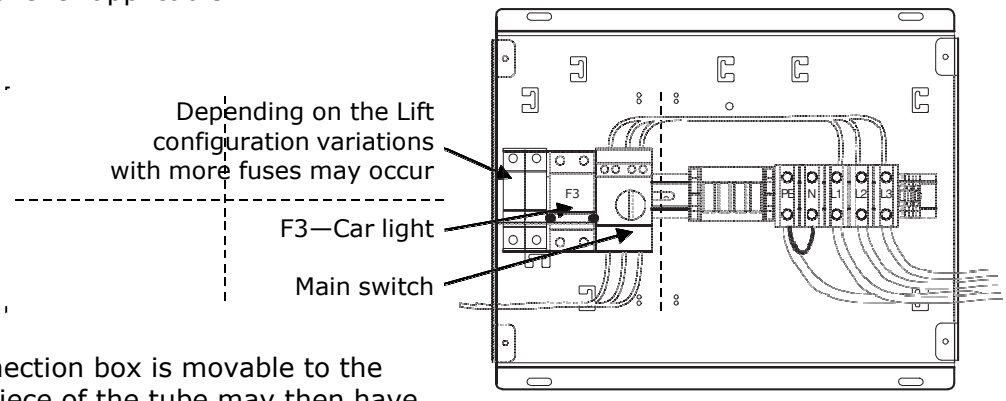
***Pic.4**: Connect recall handle and hydraulic hose (Veni)*

5. Switch on the voltage for the first time.
(Main switch + fuses F1, F2 and F4, F8 when applicable).



***Pic.5.1**: Fuses in Control unit*

F4-F16, FJ10: Whenever applicable

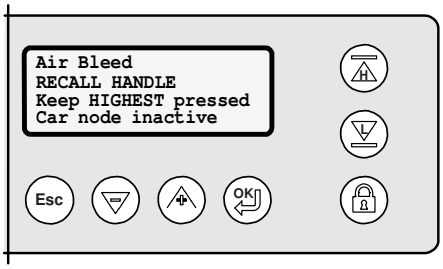


***Pic.5.2**: Fuses in Connection box*

Tip! The tube to the Connection box is movable to the other short side. A piece of the tube may then have to be cut in order to obtain sufficent length of wiring.

6. Airbleed the system (Menu 4.1).
(*See **21.** for Control panel overview)*

Loosen the airbleed screw on the lift cylinder and run with Higherst button on recall handle, until oil is coming.

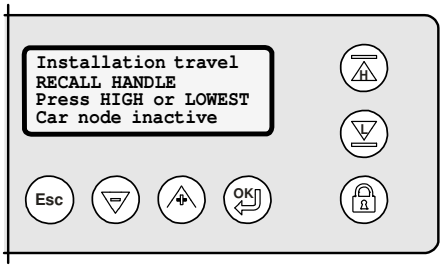


***Pic.6**: Menu 4.1 - Airbleed*

7. Test run the lift with the recall handle (Menu 4.2).

The speed can be set in 5.7.1.2 (for up-travels) and 5.7.2.2 (for down-travels).

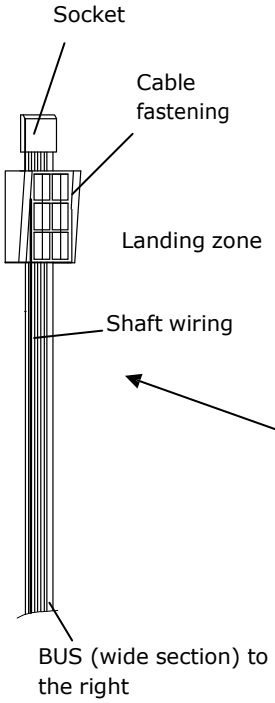
(Higher value = Higher speed)
(Lower value = Lower speed)



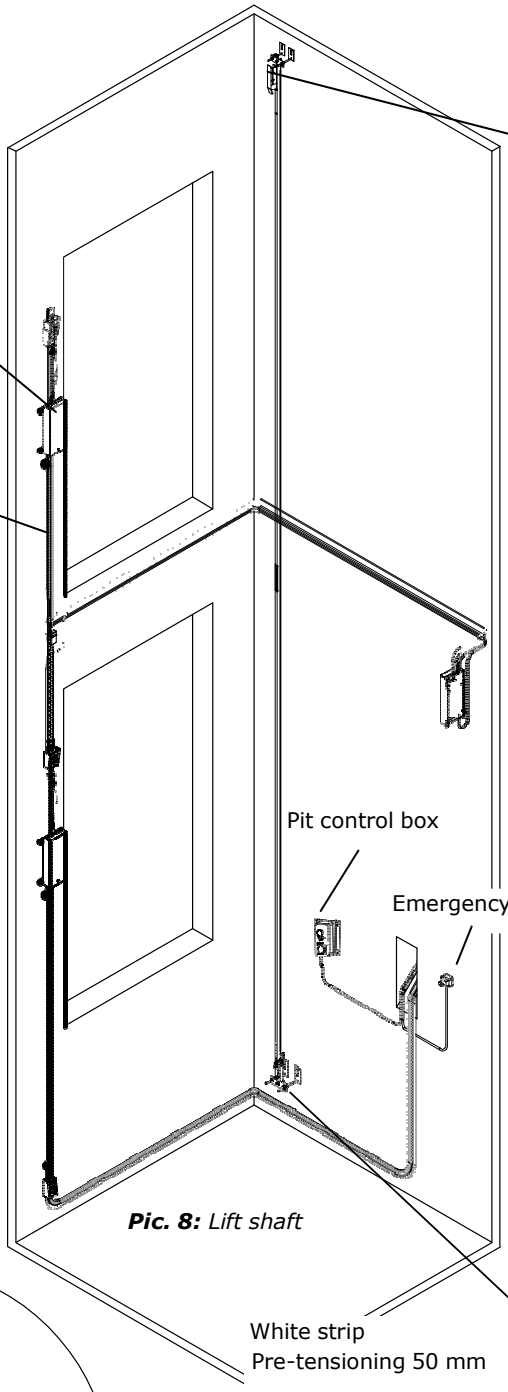
***Pic.7**: Menu 4.2 - Installation travel*

8. Mount shaft wiring, shaft information, landing zones, pit control box and ev. stop button. Mount the shaft wiring so door machinery (if any) would not collide with landing zones or shaft wiring. Exchange old wiring if necessary.

See doc. **T10129** for recommended fasteners.

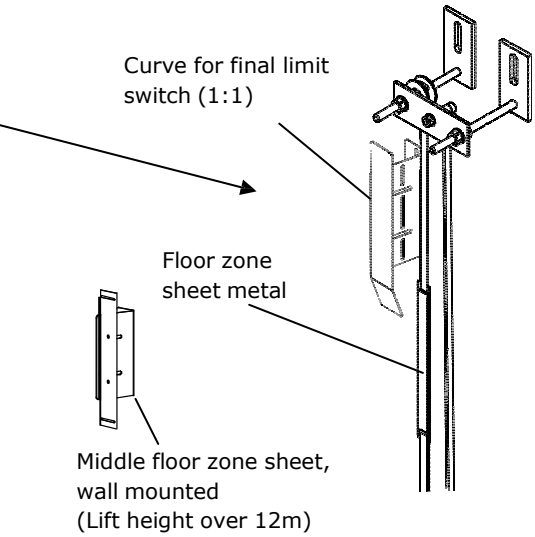


Pic. 8.1: *Shaft wiring*

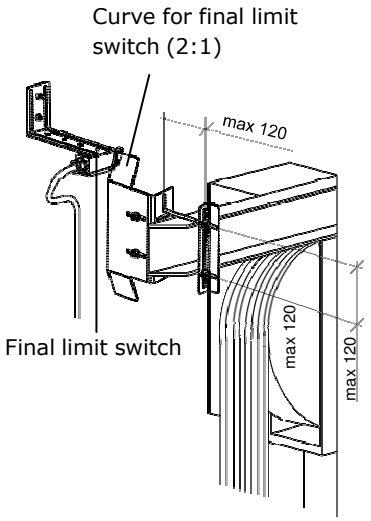


Pic. 8: *Lift shaft*

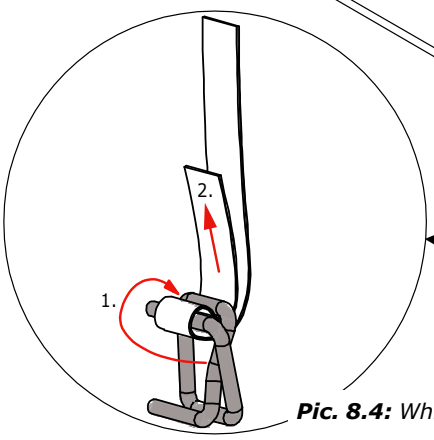
Pic. 8.2: *Shaft information—Top fixing*



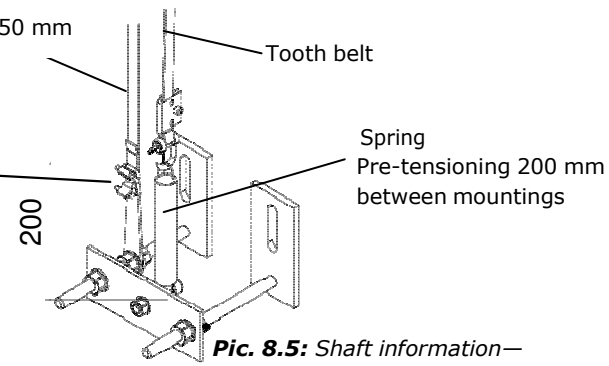
Pic.8.2A: *Final limit switch mounted on the roof*



Pic. 8.2B: *Final limit switch mounted on wall*



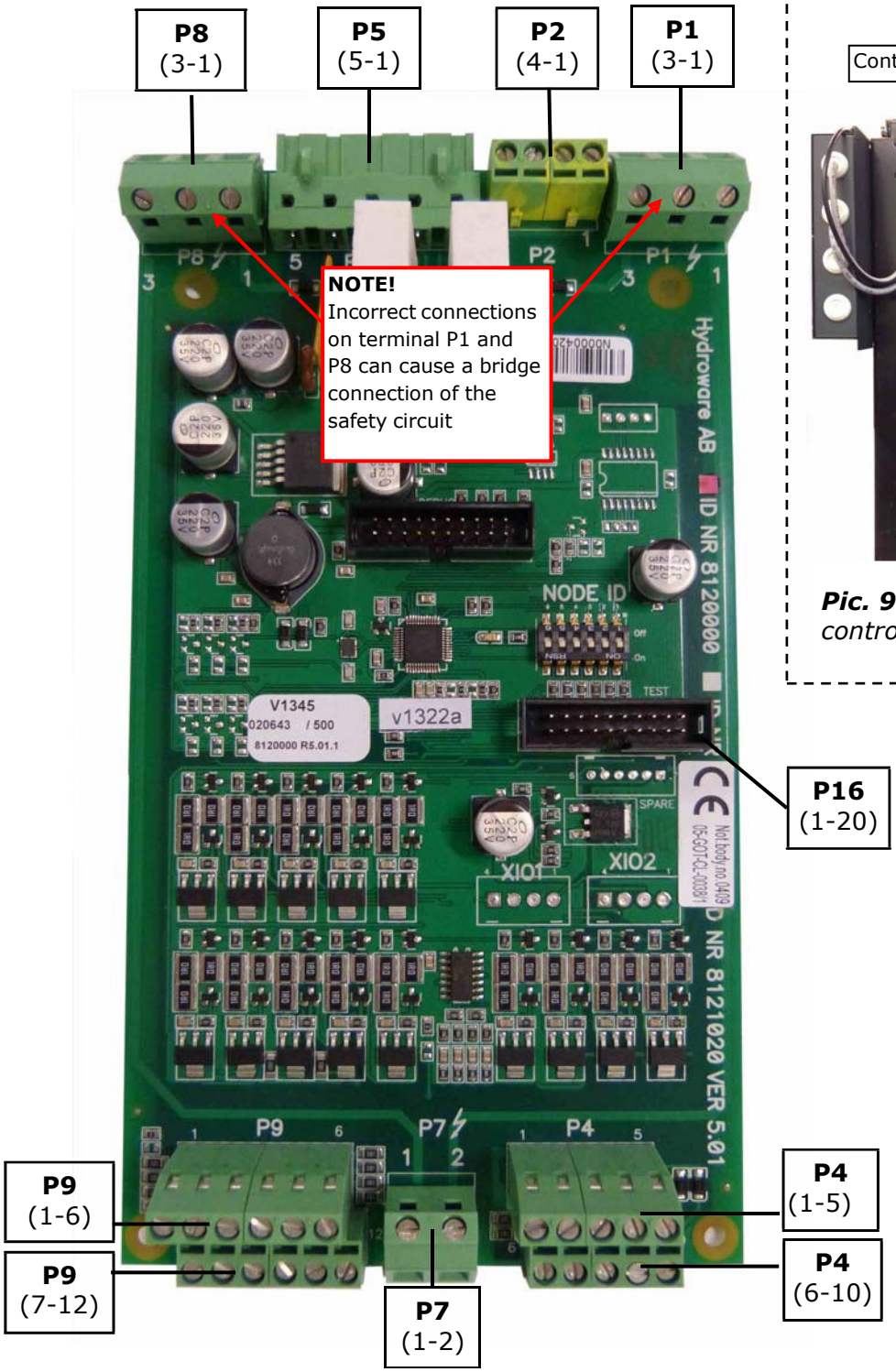
Pic. 8.4: *White strip—Fastening*



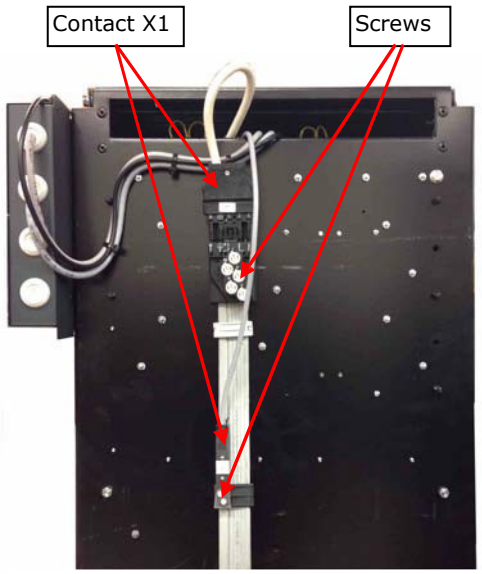
Pic. 8.5: *Shaft information—Lower fixing*

9. Connect the shaft wiring to the Control unit and tighten the screws on contact X1 (see ***Pic. 9***) to ground the landing nodes.

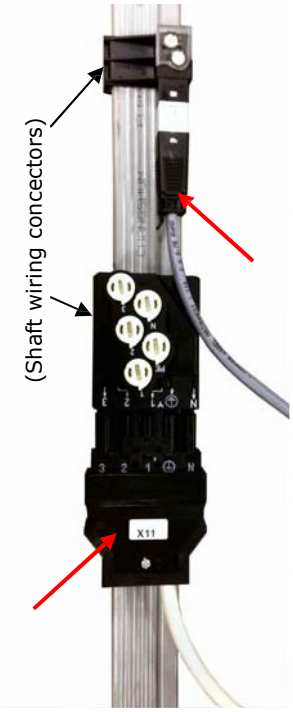
10. From the car roof, verify that connector P5 is unplugged from the landing nodes. Mount shaft wiring connectors, tighten the screws and connect the landing nodes (see doc. **T10092** and ***Pic. 10.2***).
Thereafter, connect door contacts, tableaux and lock contacts.
For connection of safety circuit, see installation schematic.



Pic. 10.1: *Landing node—Overview*



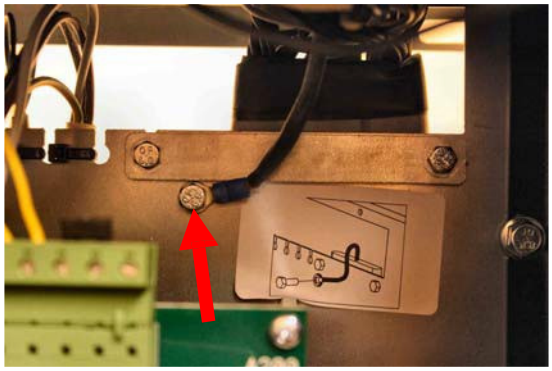
Pic. 9: *Shaft wiring connected to control node (Photo shows Veni)*



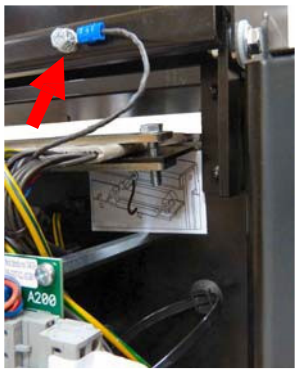
Pic. 10.2: *Connecting the landing node*

11. Mount travelling cables and connect their ground wires to the Control unit. Connect shieldings to ground points (***Pic. 11.1*** and ***11.2)*.**

NOTE! Do not connect the travelling cable´s connectors until everything else is fully assembled.

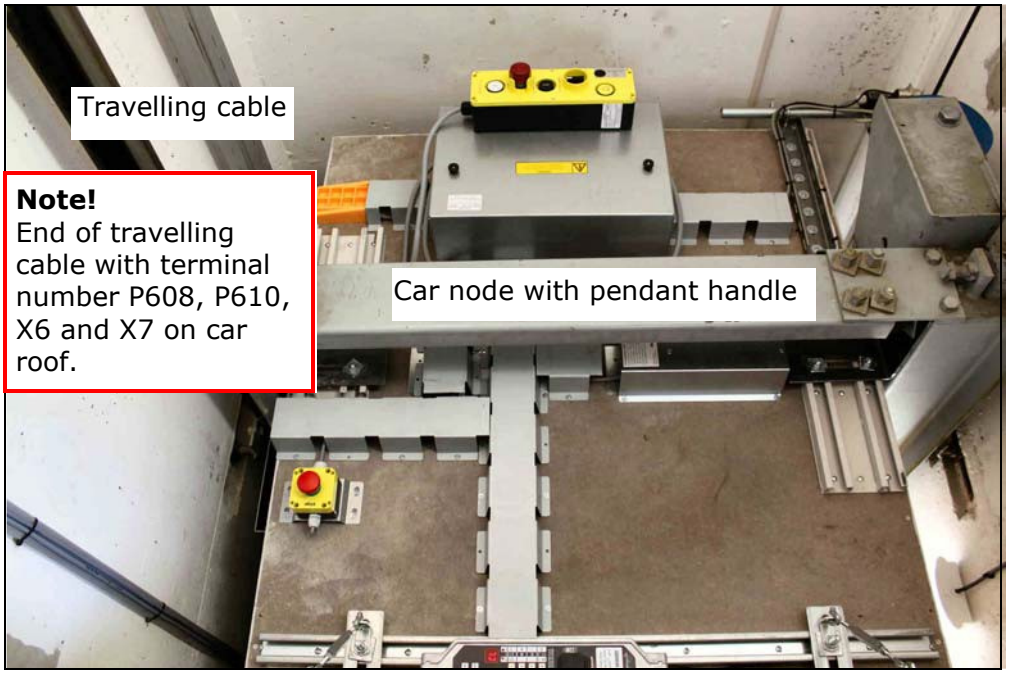


Pic. 11.1:
Shield ground point, Control unit—Vidi



Pic. 11.2:
Shield ground point, Control unit—Veni

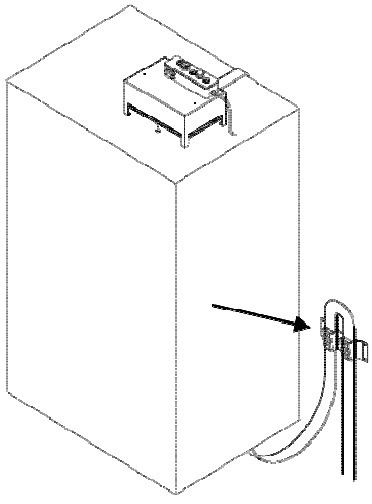
12. Mount the Car node.



Pic. 12: *Mounting of Car node*

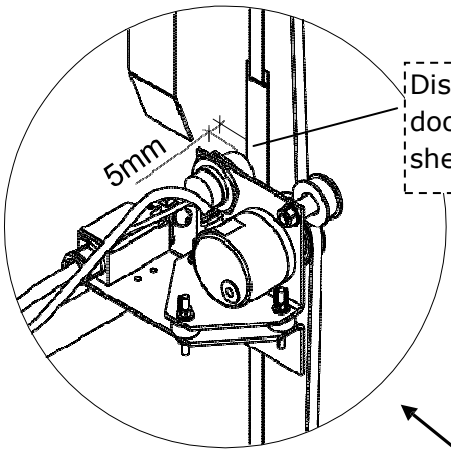
13. Connect ground wires and shields from the travelling cable to the Car node.

NOTE! Do not sever the travelling cable, instead move the cable fixing higher up on the wall to get rid of remaining cable (if any) (***Pic. 13***).



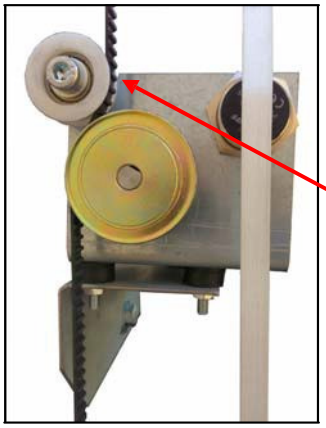
Pic. 13*: Cable fixing*

14. Mount absolute encoder (see **T10106**), door zone sensor, final limit switch, emergency stop button and cover plates on the car roof.



Distance shall be 5mm between door zone sensor and floor zone sheet metal

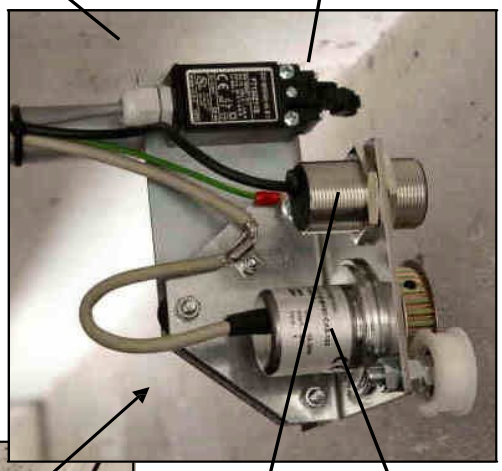
Pic. 14.3: *Setting the distance*



Note!
Absolute encoder belt traction

Pic. 14.2: *Belt traction*

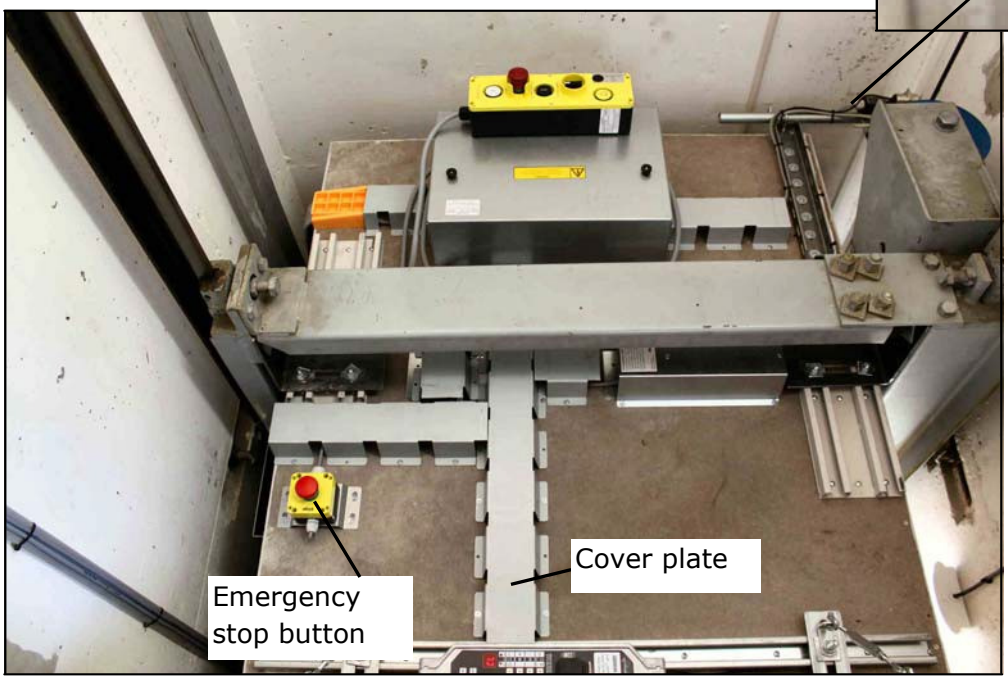
Final limit switch (1:1)



Door zone sensor

Absolute encoder

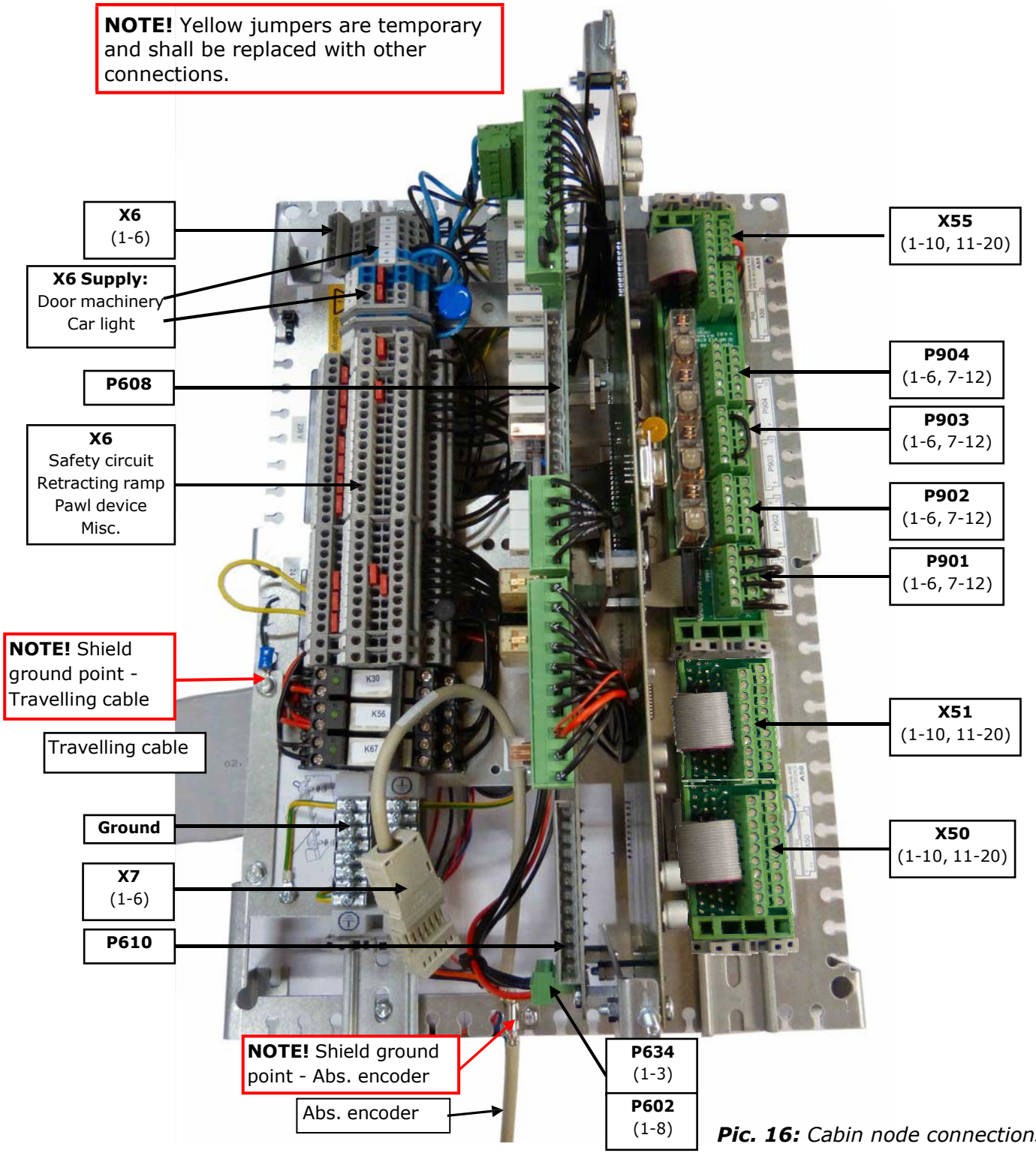
Pic. 14.4: *Sensors and switch*



Pic. 14.1: *Car roof mounting*

15. When connecting, install appropriate enclosed disturbance eliminators on magnets (retracting ramps/pawl device), see **T10060**.
NOTE! Important that this is done!

16. Finalise connecting the car node (tableaux, door machinery, safety circuit). Verify that the travelling cable really is grounded before connecting its remaining connectors and loose unconnected conductors.

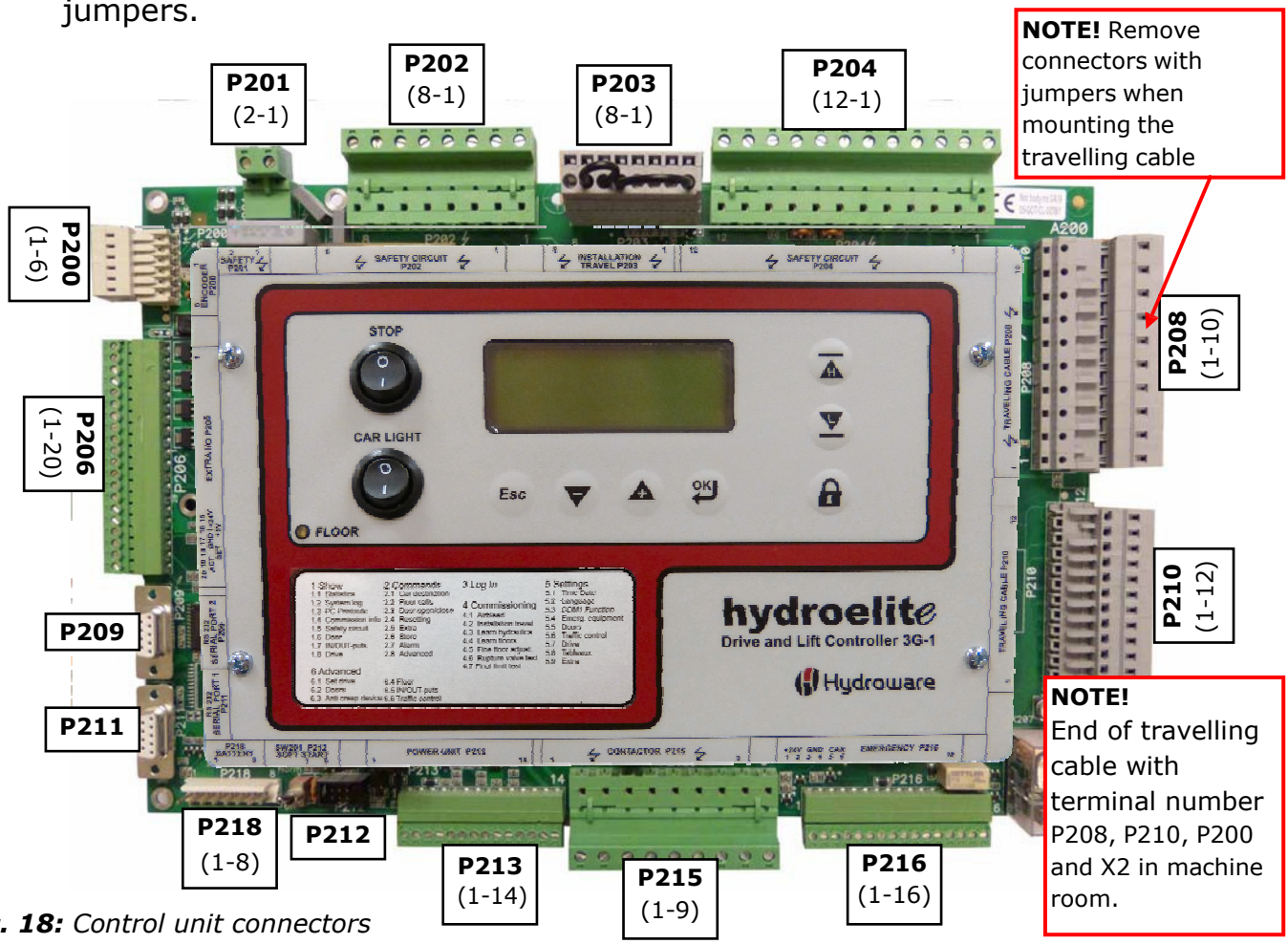


Pic. 16: *Cabin node connections*

17. From the car roof, connect shaft wiring P5-connectors in the landing nodes.

WARNING! THERE MUST NOT BE ANY VOLTAGE WHEN CONNECTING!

18. Connect cables and the travelling cable´s connectors in the control unit. Also connect it´s loose unconnected conductors and remove yellow temporary jumpers.



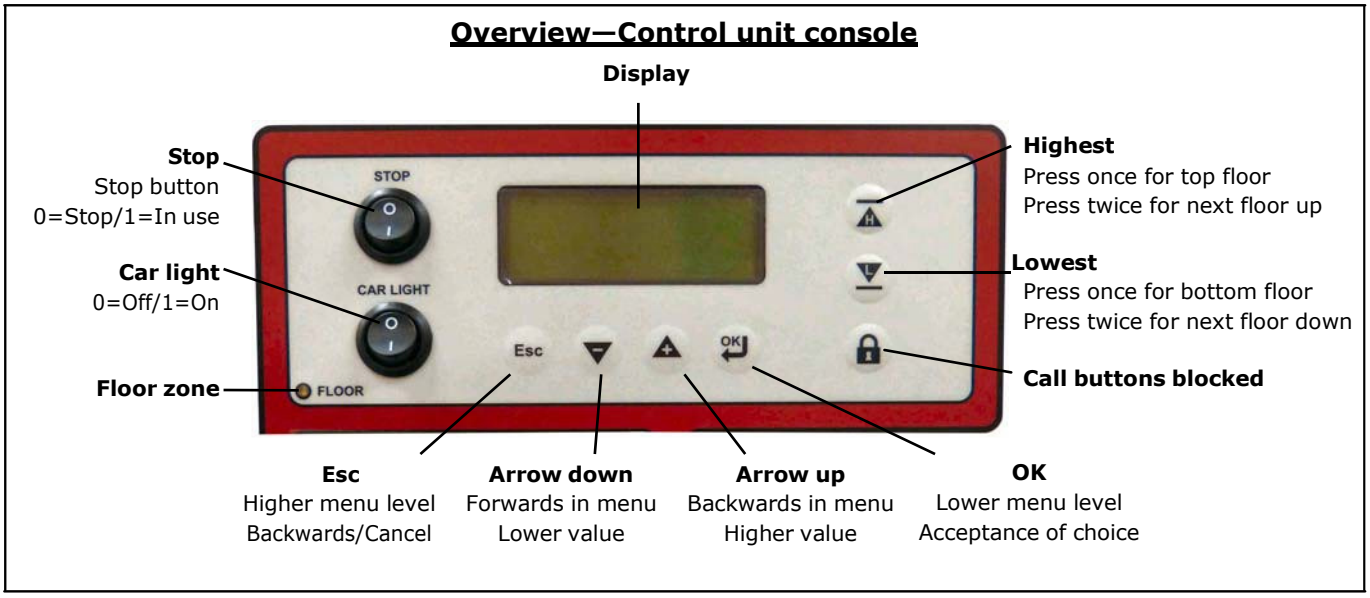
Pic. 18: *Control unit connectors*

19.

Measure resistance or buzz the following:	**Shall be (Contact = Buzz):**
Safety circuit, P202:8 to P204:3	Contact or less than 10 ohm
Shaft door contacts, P204:4 to P204:5	Contact or less than 10 ohm (could be broken due to swing door locking contact)
Safety circuit to ground, P202:8 to P201:2	No contact or more than 200 ohm
Shaft door contacts to ground, P204:4 to P201:2	No contact or more than 200 ohm
Safety circuit to +24V, P202:8 to P204:10	No contact or more than 200 ohm
Shaft door contacts to +24V, P204:4 to P204:10	No contact or more than 200 ohm
BUS, P204:7 to P204:8	Approx. 60 ohm (not connected lift group approx. 120 ohm)

20. Turn on the power in following order:

- Main switch (on the wall or in the Control unit).
- Fuses, beginning with F2 and further upward, finish with F1.



Pic. 21: *Control unit console*

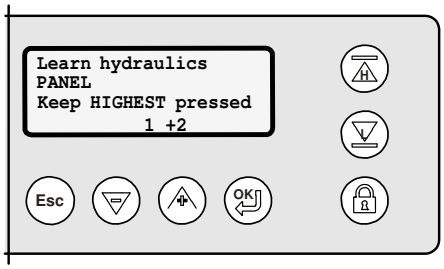
21. Commission the system in menu 4 on the Control unit (see **T10033** for more information).

If there is an anti-creep device, it´s function must be controlled when commissioning so the lift would not get stuck on the top floor and hence can´t pass by the stop lug when going down:
Run the lift with ”H” and ”L”-buttons in Installation travel (Menu 4.2) and verify that the anti-creep device retracts and passes the stop lugs.

21.1. Make a Hydraulic learn travel (Menu 4.3)

Start from bottom floor and keep pressing the ”H”-button until display shows ”Up travel approved”.
Then start learn travel down by pressing the ”L”-button until the lift stop on bottom floor.

Exit the menu and save the parameters.

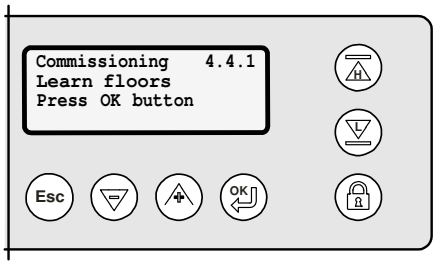


Pic. 21.1:
Menu 4.3-Hydraulic learn travel

21.2. Make a Learn floor travel (Menu 4.4.1)

Start from bottom floor zone (floor-light is lit) and push OK button. The learn floor travel is performed automatically and runs to top floor and then back to bottom floor.

Exit the menu and save the parameters.



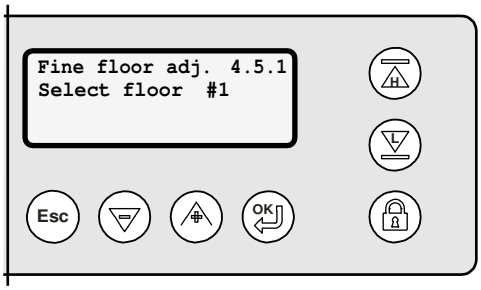
Pic. 21.2:
Menu 4.4.1—Learn floor travel

21.3. Fine adjust each floor (Menu 4.5.1).

Start from bottom floor, go upwards to every floor and measure the deviation at each floor. Then go directly to bottom floor and make a measure. Fine adjust thereafter each floor seperately.

Fine adjustment shall be done immediately after the measurements have been made and before any more trips are done. If the lift has stopped exactly in level with the floor, enter 0mm for that floor.

Exit the menu and save the changes.

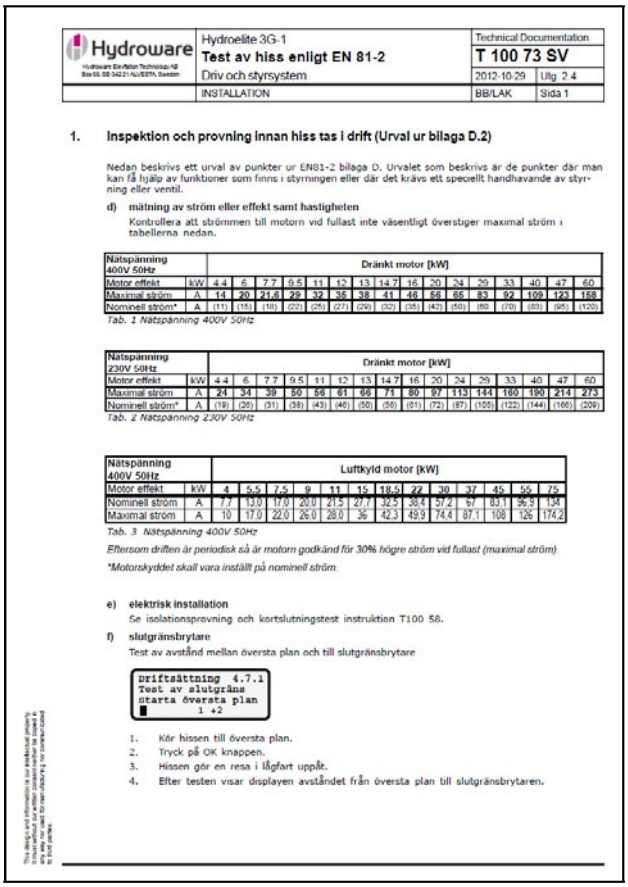


Pic. 21.3:
Menu 4.5.1—Fine floor adjustment

22. Test the lift according to EN81-2. All the tests that shall be made are described in document **T100 73**.

23. If the lift has protection against unintended car movement, acc. to EN81-2 A3 UCM valve, test this acc. to document **T101 04**.

For trouble shooting information, see document **T100 20**.
For error code information, see document **T101 40**.



Hydroware | Hydroelite 3G-1 | Technical Documentation
Test av hiss enligt EN 81-2 | T 100 73 SV
Driv och styrsystem | 2012-10-29 | Utg. 2.4
INSTALLATION | BB/LAK | Sida 1

1. Inspektion och provning innan hiss tas i drift (Urval ur bilaga D.2)

Nedan beskrivs ett urval av punkter ur EN81-2 bilaga D. Urvalet som beskrivs är de punkter där man kan få hjälp av funktioner som finns i styrningen eller där det krävs ett speciellt handhavande av styrning eller ventil.

d) mätning av ström eller effekt samt hastigheten
Kontrollera att strömmen till motorn vid fullast inte väsentligt överstiger maximal ström i tabellerna nedan.

Nätspänning 400V 50Hz		Dränkt motor [kW]														
Motor effekt	kW	4.4	6	7.7	9.5	11	12	13	14.7	16	20	24	29	33	40	47	60
Maximal ström	A	14	20	21.6	29	32	35	38	41	46	56	66	83	92	109	123	158
Nominell ström*	A	(11)	(15)	(18)	(22)	(25)	(27)	(29)	(32)	(35)	(43)	(50)	(60)	(70)	(83)	(95)	(120)

Tab. 1 Nätspänning 400V 50Hz

Nätspänning 230V 50Hz		Dränkt motor [kW]														
Motor effekt	kW	4.4	6	7.7	9.5	11	12	13	14.7	16	20	24	29	33	40	47	60
Maximal ström	A	24	34	39	50	56	61	66	71	80	97	113	144	160	190	214	275
Nominell ström*	A	(19)	(26)	(31)	(38)	(43)	(46)	(50)	(56)	(61)	(72)	(87)	(105)	(122)	(144)	(166)	(209)

Tab. 2 Nätspänning 230V 50Hz

Nätspänning 400V 50Hz		Luftkyld motor [kW]												
Motor effekt	kW	4	5.5	7.5	9	11	15	18.5	22	30	37	45	55	75
Nominell ström	A	7.7	13.0	17.0	20.0	21.5	27.7	32.5	38.4	57.2	67	83.1	96.9	134
Maximal ström	A	10	17.0	22.0	26.0	28.0	36	42.3	49.9	74.4	87.1	108	126	174.2

Tab. 3 Nätspänning 400V 50Hz

Eftersom driften är periodisk så är motorn godkänd för 30% högre ström vid fullast (maximal ström).

**Motorskyddet skall vara inställt på nominell ström.*

e) elektrisk installation
Se isolationsprovning och kortslutningstest instruktion T100 58.

f) slutgränsbrytare
Test av avstånd mellan översta plan och till slutgränsbrytare

Driftsättning 4.7.1
Test av slutgräns
startа översta plan
1 +2

1. Kör hissen till översta plan.
2. Tryck på OK knappen.
3. Hissen gör en resa i lågfart uppåt.
4. Efter testen visar displayen avståndet från översta plan till slutgränsbrytaren.

Pic. 22: *T10073—Test the lift acc. to EN 81-2*

Additional documents to the Quick Start:

Document	Name	Location
T100 20	Troubleshooting	Doc. binder
T100 33	Commissioning	Doc. binder
T100 60	Disturbance elimination of peripheral equipment	Installation material
T100 73	Examinations and test acc. to EN 81-2	Doc. binder
T100 92	Connection box ECOBUS	Installation material
T101 04	Test inst. unintended car movement	Doc. binder
T101 06	Car roof mounted encoder	With abs. encoder
T101 29	Mounting instruction	Installation material
T101 40	Error codes	Doc. binder