Start- up

Procedures of installation

Fuji

Menu

WARNING

It is important to set inverter without ropes on motor

1-CONNECTION OF MOTOR CABLES TO CONTROLLER

1. Connect main power supply to **R S T**
2. Connect U-V-W like in picture n° 1
3. Connect thermistor, brake correctly like in picture n° 2
4. Connect encoder and its ground like in picture n° 3 e 4

It is important to make in the best way the shielding wiring of motor cable and encoder otherwise there will be inverter malfunctions. Most important thing is the distance between encoder cable and motor cable: at least 50cm for the whole travel from motor to controller

2- INVERTER START-UP

During setting of GEARLESS Lift there are some different procedures to execute with attention.

We advise to start WITHOUT ROPES ON MOTOR.

WARNING:

We need angle acquisition:

- Set parameter L3=1 and move elevator in inspection for a few seconds, until Run Contactors will be disabled form inverter.

- Try to move Lift in UP or Down direction and check if motor works.

- If the first start the inverter turn ON shows error **Ere** reverse the motor direction (reverse the wires V with W) and try again angle acquisition L03=1.

If direction of motor rotation is contrary please set parameters E98=99 and E99=98 or reverse the wires in the terminals FWD and REV 'inverter, and try again angle acquisition L03=1.

- If inverter shows error PG or again ER6 check encoder connections.

3-TEMPORARY INSPECTION CABLE UTILIZATION

- Give power supply to controller;
- Controller is supplied with temporary inspection cables that you have used during mounting. You have these wires:
  - White and Brown → ALT
  - Green → COMMON OF DIRECTION
  - Yellow → UP DIRECTION
  - Grey → DOWN DIRECTION

Furthermore there are some clevis on safety circuits.

Please check white and brown wires are joint and so led on MV900 board EXC,ALT,CS are light ON. On the contrary case elevator not work

4-INVERTER PARAMETERS

Parameters are already setted. May need to adjust the acceleration, deceleration or roll-back at the start, here are some parameters that can be used:

E12=	Acceleration
E13=	Deceleration
C07/C07=	Creep speed (low speed - Hz)
C06/C06=	Maintenance speed (Hz)
C11/C11=	High speed (Hz)
C10=	Intermediate speed (Hz)

If motor has rollback please make these:

1) make again Pole Tuning

2) Increase L68 until rollback is expired (increase each time of 0,50) ;

3) If rolleback is disappeared but there is noise, decrease parameter L68 to the previous value and decrease L66 and F24 of 0,10

Example: L66 = 1.00 ---> 0.90 and see if it improbe

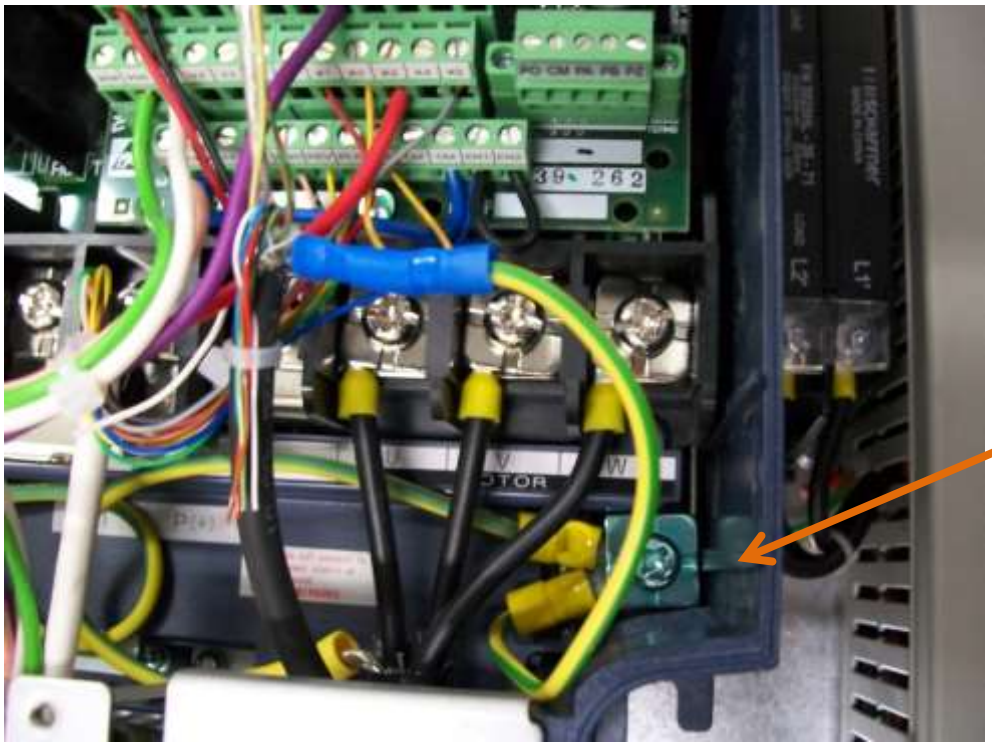


fig.3

It 'important to connect the ground of the encoder

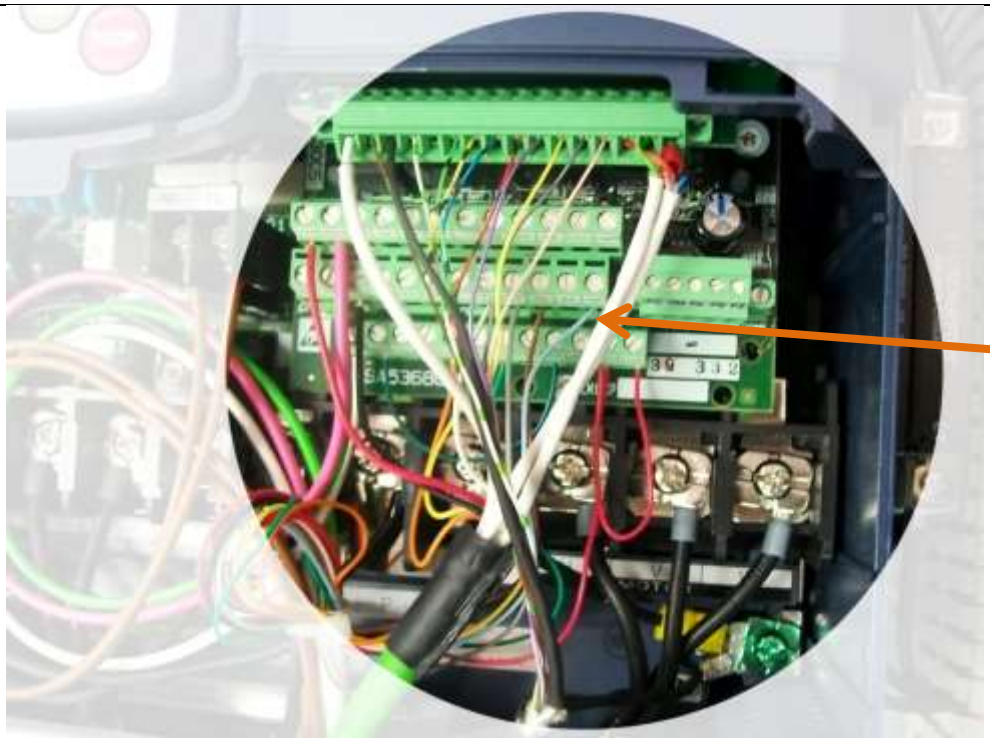


fig.4

The encoder is already connected to the plug of 'inverter.

These are colors used from Heidenhain ECN1313/ECN413

Brown/Green= PO
White/Green= CM
Red/Black= PB-
Blue/Black= PB+
Yellow/Black= PA-
Green/Black= PA+
Yellow= CK-
Violet= CK+
Pink= DT-
Grey= DT+

fig.1

It is important to connect the motor wires as shown in figure

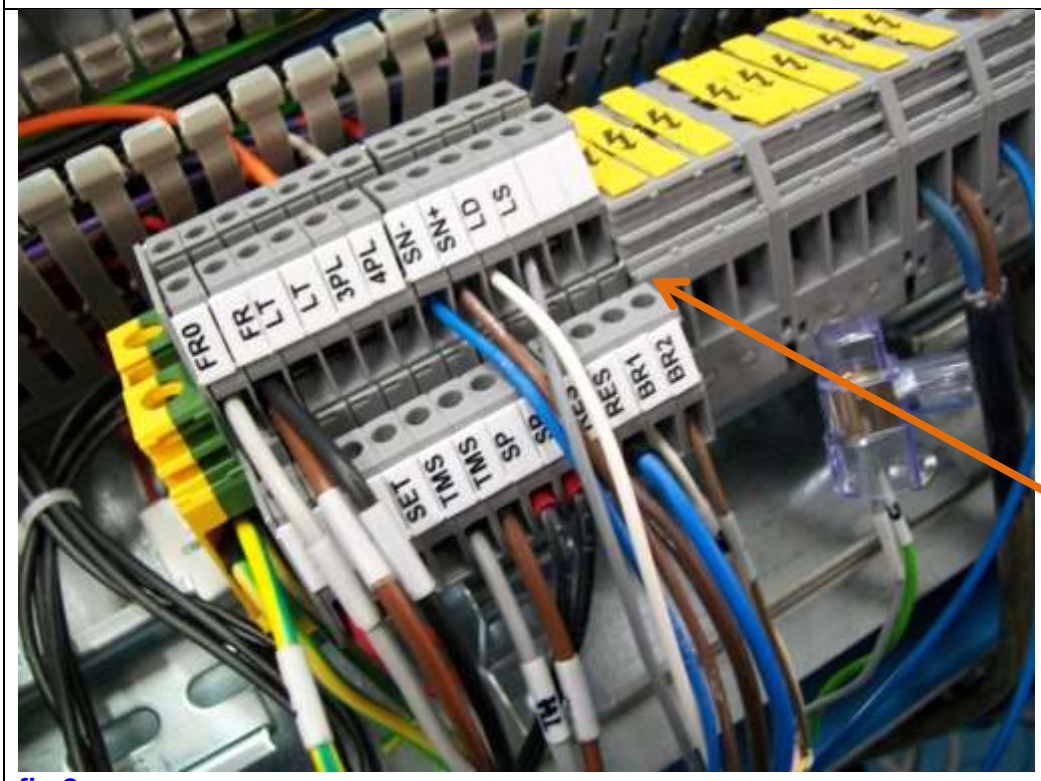


fig.2

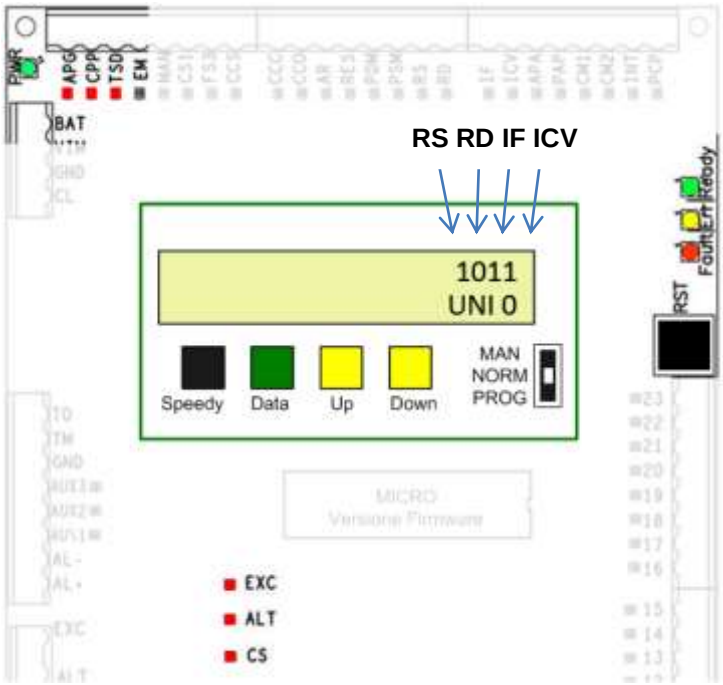
Connections:

Brake FR/FRO= +,+/-

Brake switch BR1/BR2= white/brown

Thermistor TMS/TMS= grey/brown TH

5-First Start Procedure after installation



WARNING!

After installation please remove all short circuit jumpers and Temporary Inspection Cable (on Safety Circuit, GND/RS/RD).

1- Move cabin on Ground floor. Display will show 1011 (sensors switch indication).

2- EXC and ALT leds have been ON and also CS (with closed doors)
(otherwise please check Safety Circuits on electrical drawings).

3- If display doesn't show UNI0 but another message, please check **"immediate information"** that is actual state of board.
(more info on MV900 user manual)

4- If display shows an error, please try to reset it with **RESET** button .
(check Fault List and probably solutions on MV900 user manual)

5- Make a call on the next floor by buttons **DATO** and **UP**

More Frequent Faults Description

38-39	Selector Count Failed
41	Pre-limit sensors opened
56	Thermal control of pump PTC
62	Serial connection in car not found
63	External Serial connection not found
67	Re-open contact, photocell or open door button ON
80	Travel time expired
81	Cabin on Limit switch