



ELAUT nv/sa

Passtraat 223 B-9100 Sint-Niklaas Belgium
Tel: +32 3 780 94 80 Fax: +32 3 778 05 61
Website: www.elaut.com E- mail: support@elaut.be

Service bulletin 17015_EN – BIG ONE GRABBER NOT WORKING



Please take all the necessary safety- and ESD precautions before starting on the job.



1. The Grabber :

Start by verifying the wiring harness leading from the gantry to the main controller and power supply. Repair any visual damage or replace the harness.

Does the claw close when powered by a separate power supply?

- Connect a 24V DC power supply directly on the Big One grabber, take note of the polarity of the wiring.



Wire side

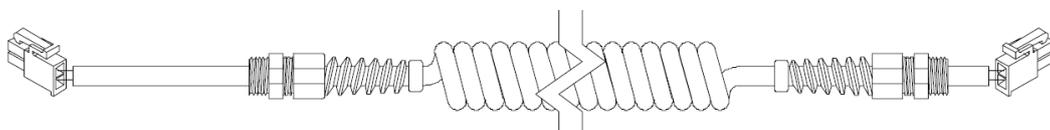
FROM CON A

DESCRIPTION			
PIN	CONNECTION	FUNCTION	WIRE COLOR
2	To pin 2 Conn B	CLAW +	Blue
1	To pin 1 Conn B	CLAW -	Black



If the grabber closes refer to point 2 to test the power supply.

If the grabber doesn't close, measure the continuity of the grabber cord using a multi meter.

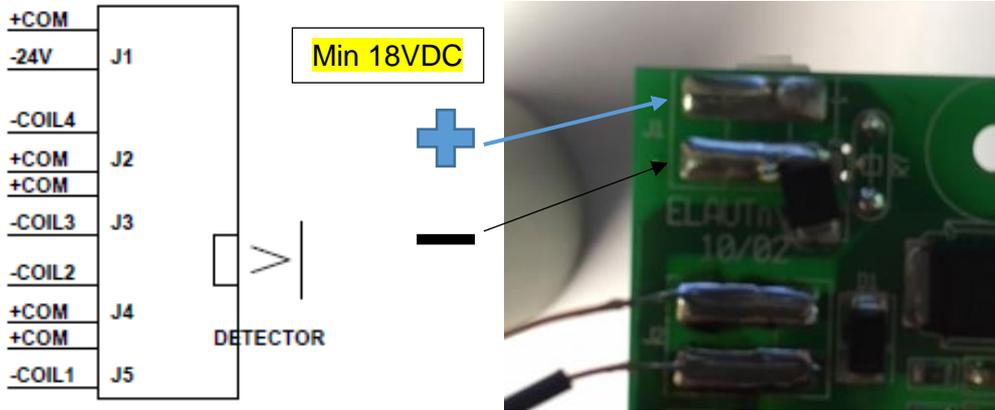


Service bulletin 17015_EN – BIG ONE GRABBER NOT WORKING

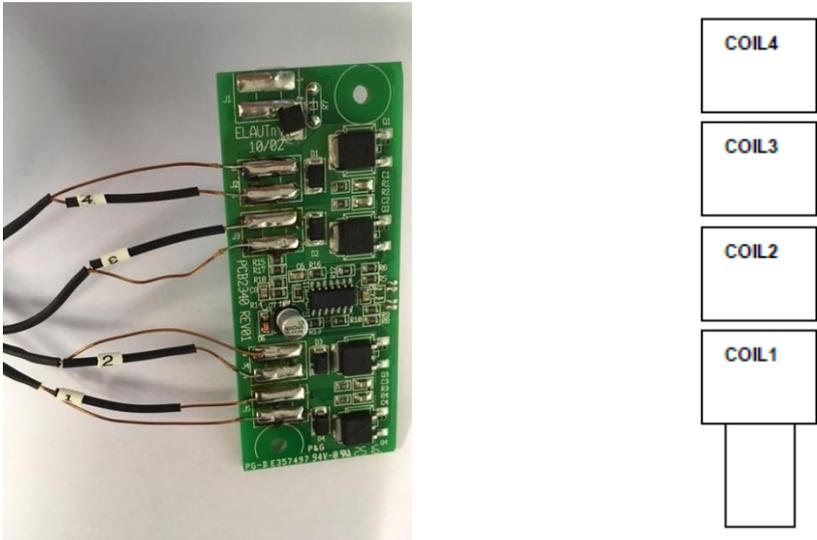
Last revision at: 25/01/2018 11:12:00

When the grabber cord (3500.9470) is tested and in good condition, please verify the PCB (9002.2342) installed inside the grabber.

The incoming voltage when the grabber should be closing is approx. 24V DC (min 18V DC on J1)



Inside the grabber you can find 4 coils (see picture) you can measuring these with a resistance measuring tool (mutimeter), they should measure +-13 Ohm each. The connection of the coils is very important and needs to be connected in the right order.



If the coil's and power is ok change the PCB (9002.2342) or send it to Elaut Service for repair.

NOTE : If the polarity of the claw is reversed there will be no grabber type in the 'selftest menu', the machine will generate an error 37 at startup and error 36 when trying to close the claw in the claw settings menu ' pickup' power '.

NOTE : If the grabber is not closing completely, and get's stuck half way, there's a good change the detector on the PCB is either faulty or bad adjusted. There should be approx. 1-2mm distance between the detector and the core.

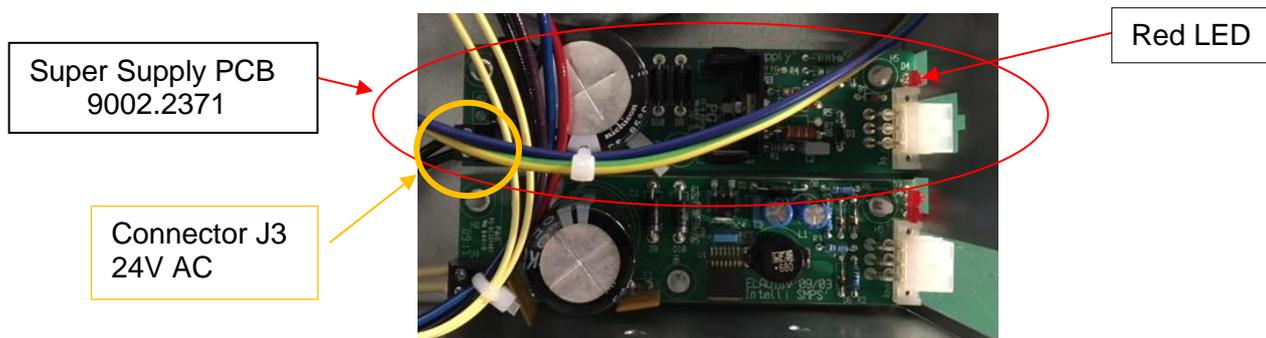
Service bulletin 17015_EN – BIG ONE GRABBER NOT WORKING

Last revision at: 25/01/2018 11:12:00



2. The Power supply :

The BIG ONE grabber is powered by a separate power supply.
Verify the correct operation of the 'super supply' PCB located in the main power supply.



A red LED should be light up near the connector.

If the LED does not light up please verify the incoming power coming from the transformer.
On the connector J3 there should be **24V AC**, If not check the transformer, fuses or incoming power.

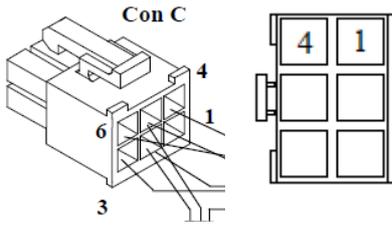
Otherwise change the Super supply PCB (9002.2371) or send it to Elaut Service for repair

The super power supply will only activate the power to the claw when a signal is coming from the 'Intelli controller'.

To activate the claw manually , enter the 'claw settings' menu, select 'pickup power' and press 'T', this will activate the claw (or try to) for a short time.

Service bulletin 17015_EN – BIG ONE GRABBER NOT WORKING

Last revision at: 25/01/2018 11:12:00



1	LOCK		
2	From Con A pin 5	GND	black
	To Con E pin 2	GND	black
3	From Con A pin 17	Claw CMD	brown
4	From Con A pin 4	Claw Enable	yellow
5	To Con E pin 5	PWR	red
	To Con D pin 8	Claw +	red
6	To Con D pin 4	Claw -	black

The time during 'Claw activation' there should be +-24VDC between pin 3 and 4, This is the signal coming from the controller, (this also indicates the controller is OK) If this voltage is present pin 5 and 6 (outgoing to claw) should measure +-24 VDC.

Change the PCB when the incoming voltage is present and no outgoing power is measured. When the power supply is ok probably the problem will be in the cable harness .

3. The Intelli Controller :

First verify if there is a claw type shown inside the self-test menu.

Selftest

```
SELFTEST
T clawtype      3
```

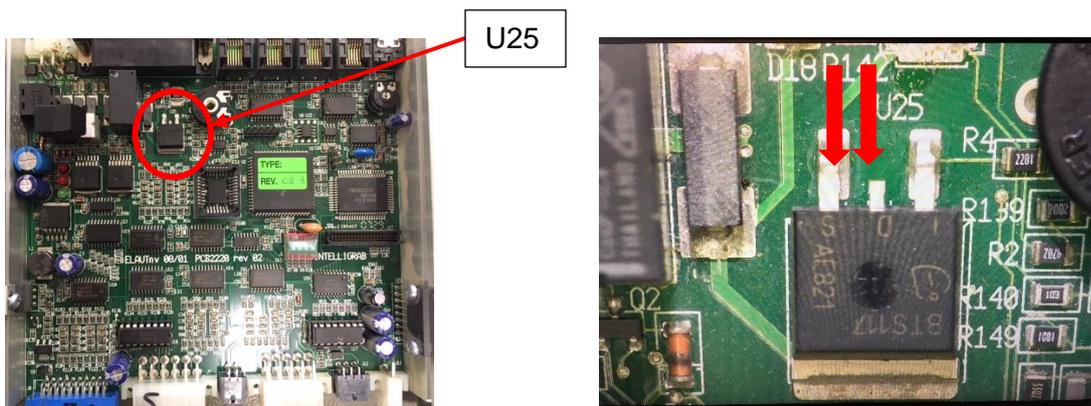
Take in mind that this function is automatically filled in and can't be adjusted.

NOTE : The claw type will only be recognised at start-up of the Intelli controller.
By pressing 'T' the controller will do an attempt to recognise the grabber again.

To test if the circuit behind the intelli controller is OK, we have to open up the Intelli controller.

Take of the cover by unscrewing the four screws.

Locate the FET U25, make a short circuit between the two contacts shown below



If the grabber closes at this point, most likely there's a problem with the 'Intelli controller' In this case replace the Intelli controller and send the defective controller to Elaut service for repair.

Service bulletin 17015_EN – BIG ONE GRABBER NOT WORKING