Upgrade of single axis Solar Tracker ST40MxVxP to dual axis ST44MxVxP

1pcs

1pcs

1pcs

1pcs — 2pcs M8

1pcs

6pcs M8x35

6pcs M8

6pcs M8

2pcs

2pcs

1pcs

2pcs M8
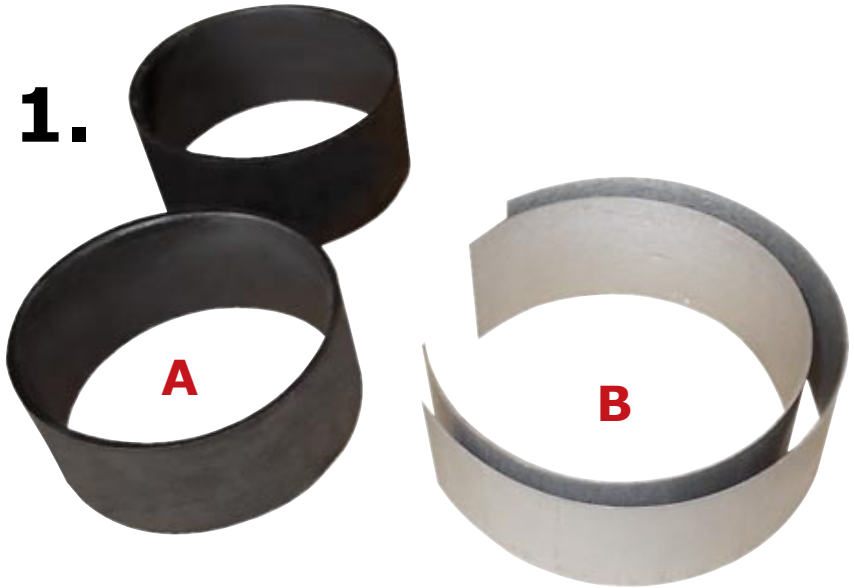
M8

1pcs

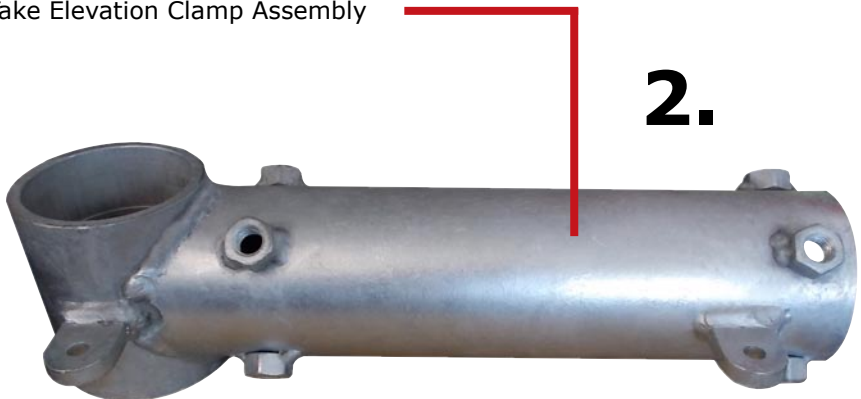1pcs M12x90

2pcs

2pcs

1pcs —
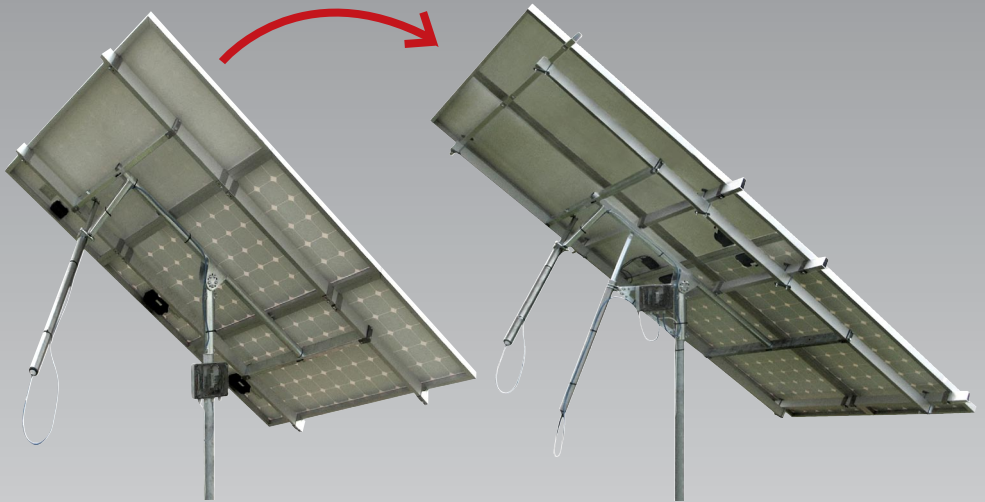
1.

1.

A: Plastic bearing (you need two)
B: Spacer (you need two)
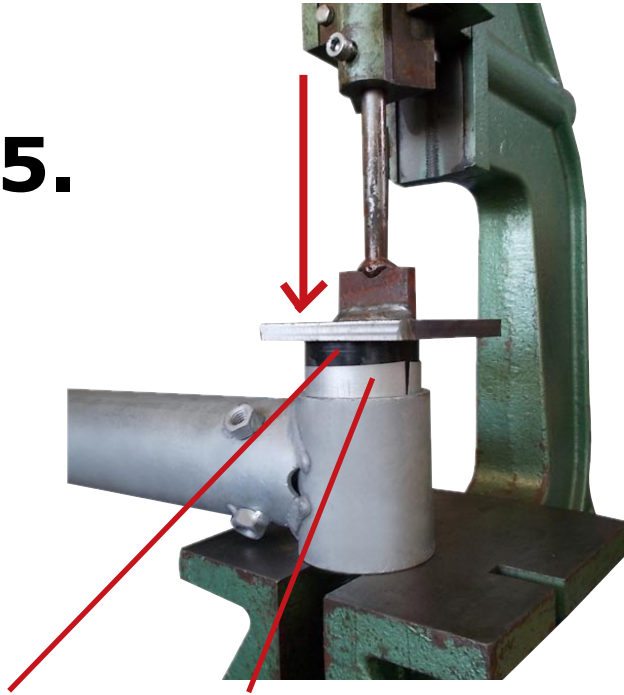
• Take Elevation Clamp Assembly

2.

3.

• Take the Spacer and insert it into the Elevation Clamp as shown in Figure 3.

• Take the Plastic bearing and insert it into the Spacer as shown in fugure 4.

4.

3.

5.

- Push <u>Plastic bearing</u> and <u>Spacer</u> into Elevation Clamp Assembly as shown in figure 5.

Push till end

Plastic bearing   Spacer

5.a
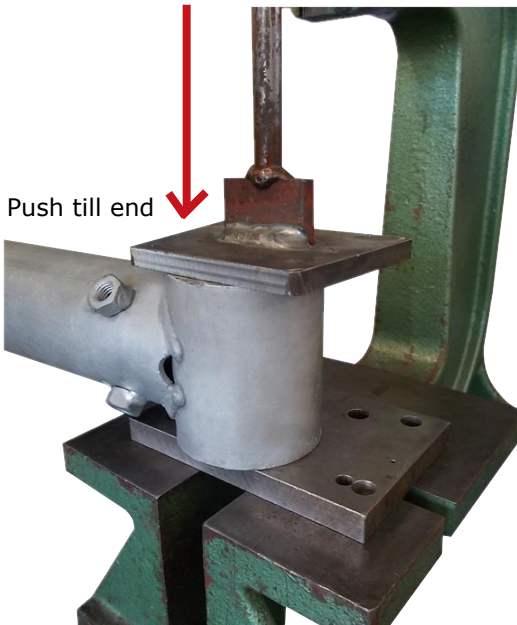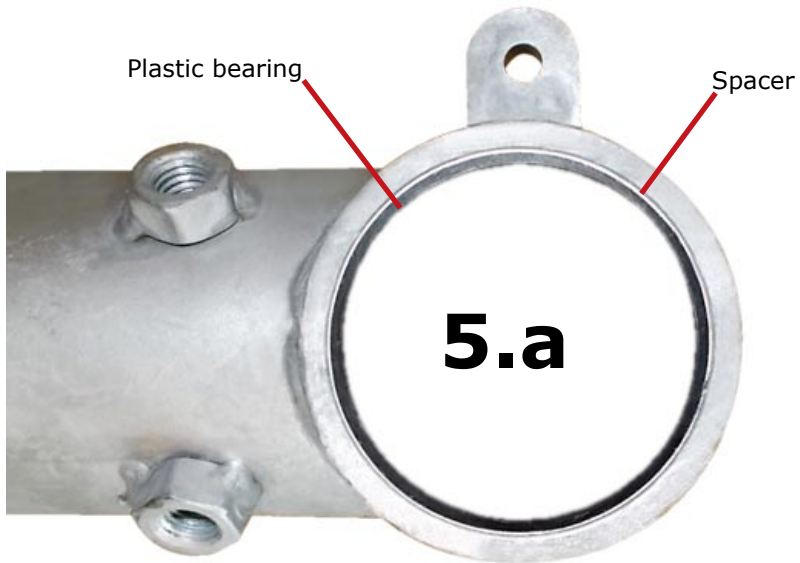
- Elevation Clamp Assembly with Plastic bearing and Spacer should look as shown in figure 5.a.
- Now turn the Elevation Clamp Assembly and repeat 3rd, 4th and 5th step.

3.   **4.**

5.

5.

- Take Inner Ring and insert it into Elevation Clamp Assembly as shown in figure 6.

6.

- Push Inner Ring into Elevation Clamp Assembly as shown in figure 7.

7.
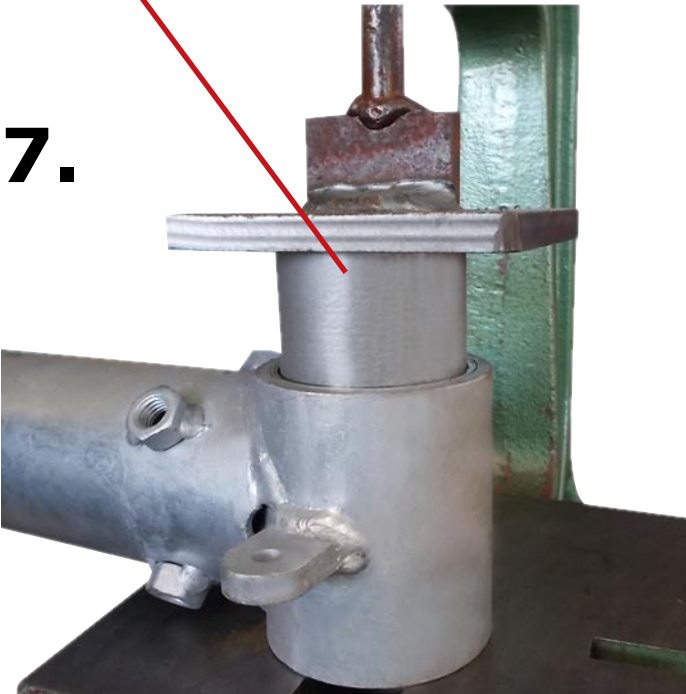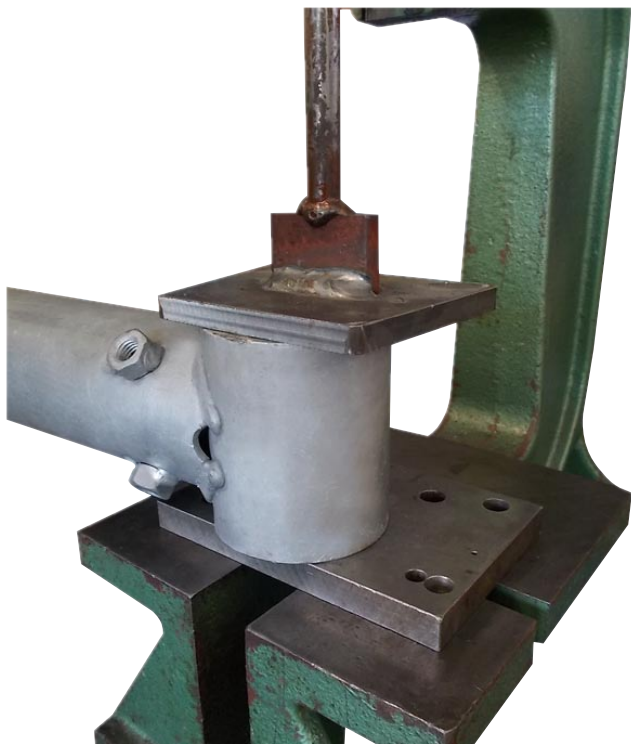
- Should look like this at the end.

Single axis Solar Tracker

8.
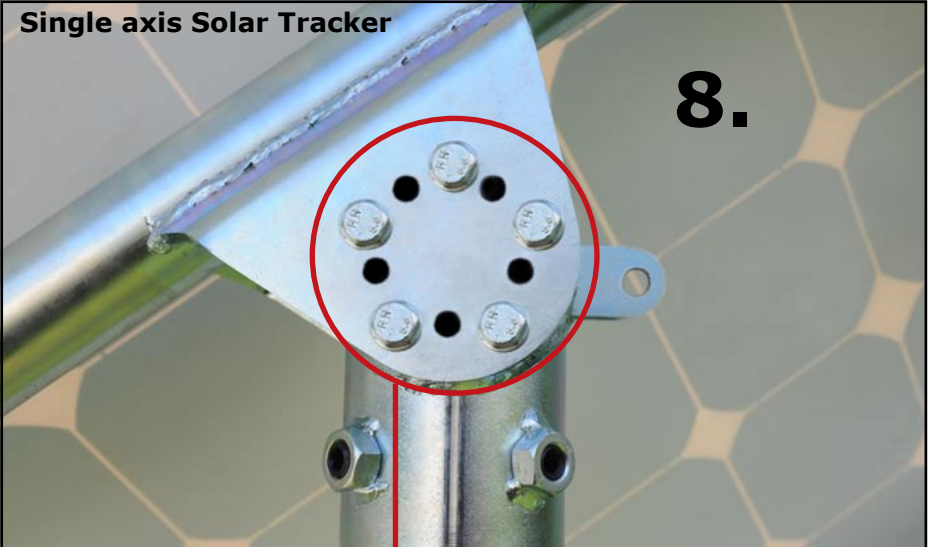
STEPS:
- Unscrew and pull out 5pcs of screws (M8x110)
- Mount the inner Plastic bearing and Spacer two times as shown in pages (2-7)

Dual axis Solar Tracker

9.
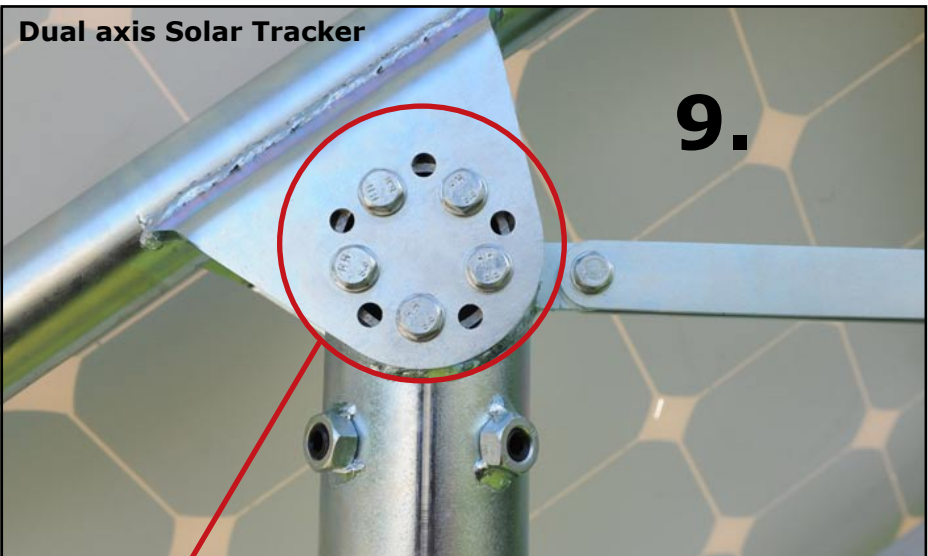
- Put the screws back into holes in construction at inner circle.

10.

2pcs

2pcs
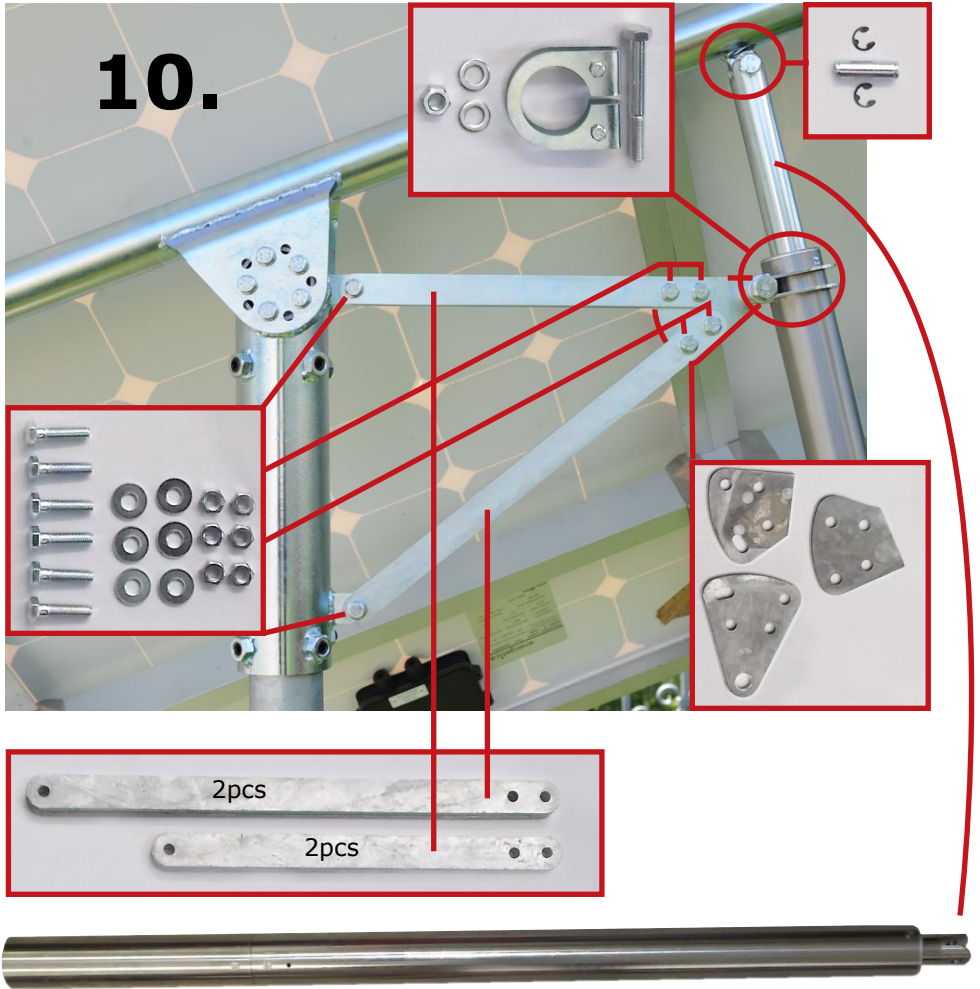
• Mount those parts as shown in assembly. Screws tight well. Screw M12 at the motor clamp U8 tight with torque 3Nm max.

11.

12.

Red-thin

Black&Red-thick

White

Copper-thick

Green&Yelow

Grey

Connect cables as shown if figure 12.

- In Helios Analitics fill this settings for Motor B.

13.

Sat Control d.o.o - Helios Analitics 2.0.1

File   System   Update   Support

Port: COM5

| Positioners | Monitoring | Advanced | Sensors | Options |

36A1(1)

Motor A

A1:	355.0
A2:	335.0
A3:	39.6
A4:	40.4
A5:	0.0
A6:	0.0
B1:	31.2
B2:	0.0
Min range:	500 i
Max range:	355000 i
Gear ration:	682.7
I motor max:	1.60 A
Inrush current ration:	3.0
Inrush current time:	700 ms
Coordinate mode:	3
Geometry mode:	2
I motor factor:	80.0
Night position:	0 °
Goto reference:	30 d
Deviation:	0.00 °
Slope of terrain:	0.00 °
Panel width:	0.00 cm
Panel spacing:	0.00 cm
Panel safety width:	0.00 cm

Motor B

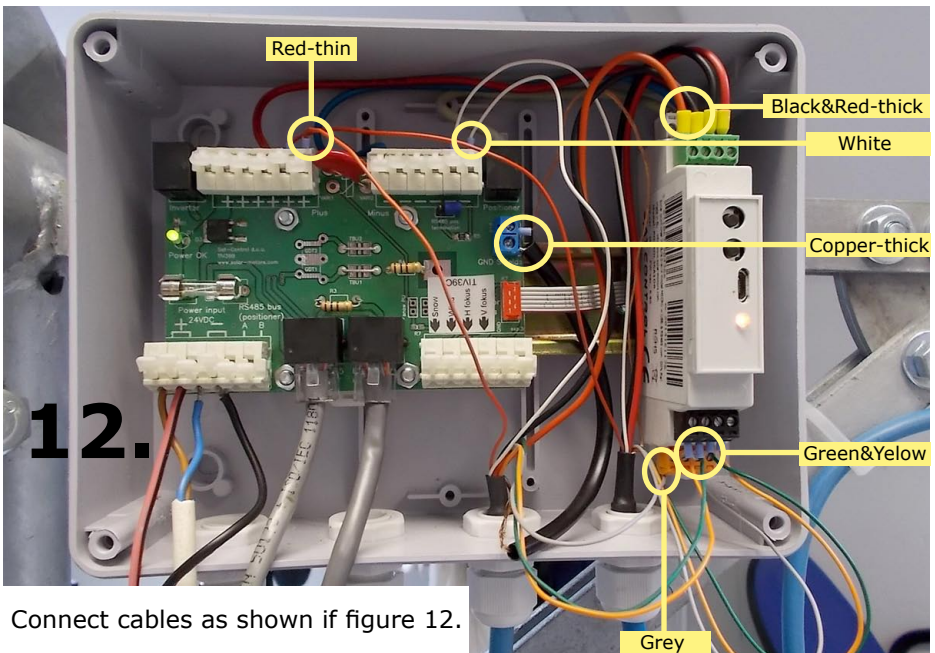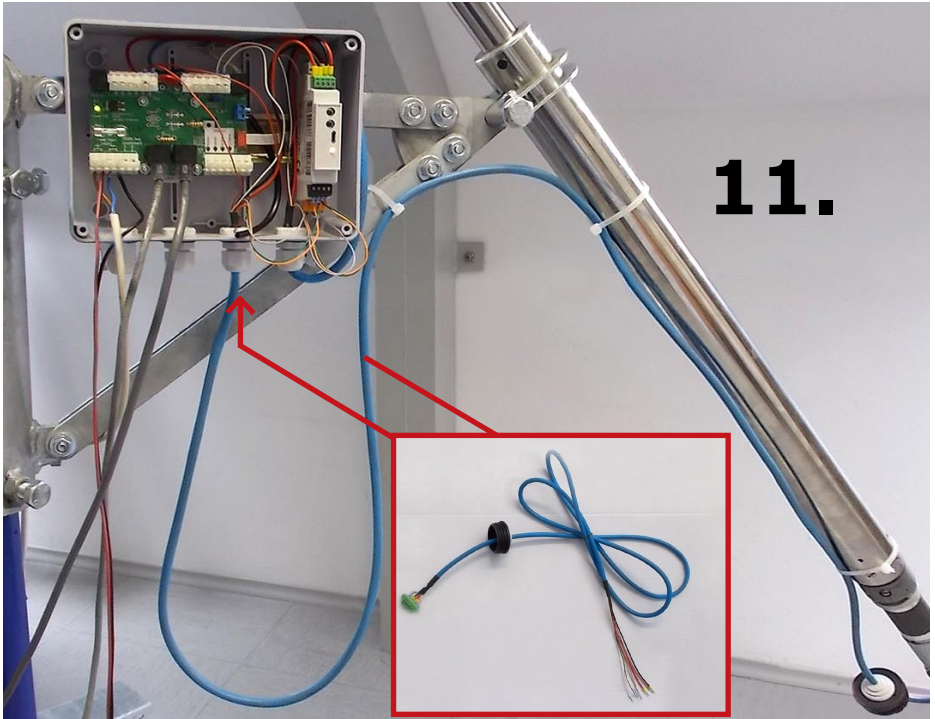|	
A1:	40.3
A2:	430.0
A3:	388.9
A4:	0.0
A5:	39.6
A6:	0.0
B1:	89.4
B2:	-4.9
Min range:	500 i
Max range:	355000 i
Gear ration:	682.7
I motor max:	1.60 A
Inrush current ration:	3.0
Inrush current time:	700 ms
Coordinate mode:	4
Geometry mode:	3
I motor factor:	80.0
Night position:	45 °
Goto reference:	30 d
Deviation:	0.00 °
Slope of terrain:	0.00 °
Panel width:	0.00 cm
Panel spacing:	0.00 cm
Panel safety width:	0.00 cm

Common

Day mode time:	h
Night mode time:	h
Sunrise offset:	0.0 h
Sunset offset:	0.0 h
RS485 ID:	1
Panel width E-W:	0.0 m
Panel spacing E-W:	0.0 m
Panel width N-S:	0.0 m
Panel spacing N-S:	0.0 m
RTC correction:	0 s
Soft. RTC correction:	0 s
H default target angle:	0.0 °
V default target angle:	0.0 °
H target angle 2:	Off °
V target angle 2:	Off °
H target angle 3:	Off °
V target angle 3:	Off °
Heliostat 2. period start:	00:00
Heliostat 2. period end:	00:00
Heliostat 3. period start:	00:00
Heliostat 3. period end:	00:00
AB async diff.:	0 i
U supply factor:	115.0

Online COM5 -> mode: USB/serial