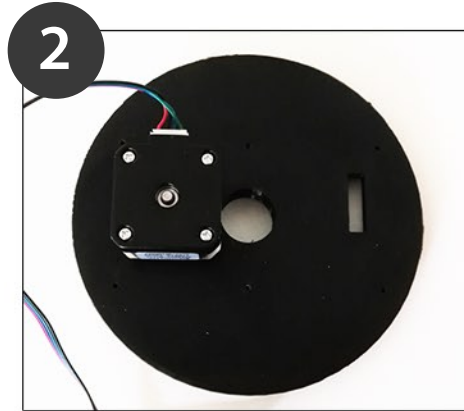


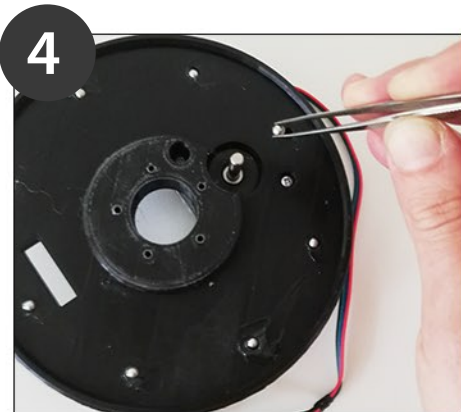
1  
Unpack the kit and make sure all parts are present



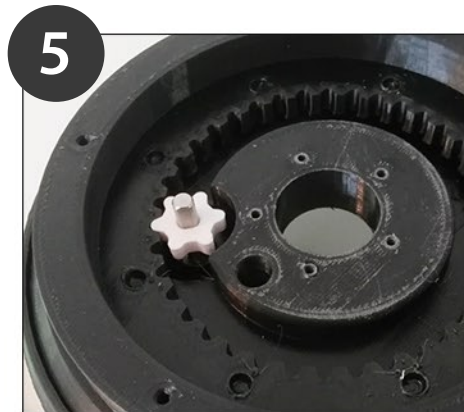
2  
Fasten a stepper motor to the "top plate" with 2pcs screws (M3x6)



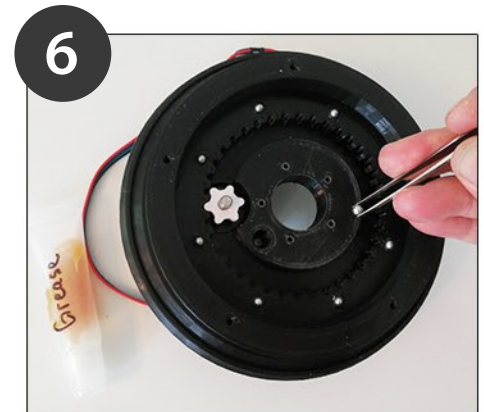
3  
Apply a dab of grease in each of the 8 bearing slots on the bottom



4  
Put a single metal bearing ball in each of the slots



5  
Add the "turntable" and slide the "cogwheel" down on the motor axle



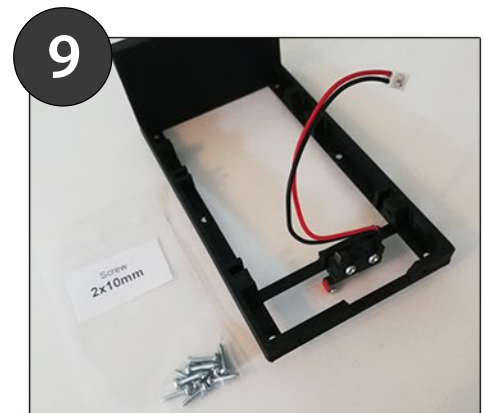
6  
Apply a dab of grease in the 8 slots of the turntable and add 8 bearing balls



7  
Add the "bottom plate" and fasten gently with 5pcs screws (3x10mm)

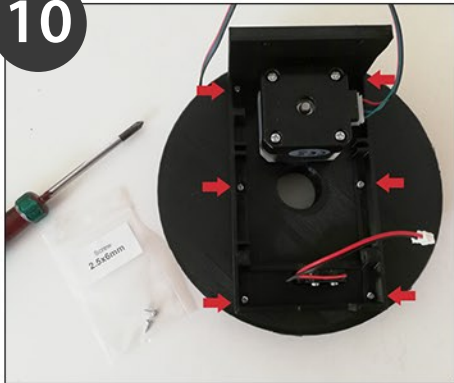


8  
Gently test the turntable by rotating it manually, if its very tight you can loosen the bottom screws a little



9  
Fasten the limit switch with a short cable to the "bottom mount" with 2pcs screws (2x10mm)

10



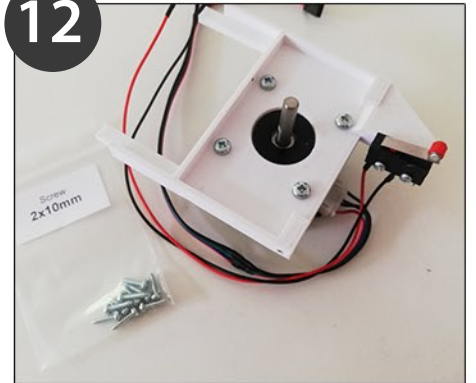
Mount the bottom mount to the top plate with 6pcs 2,5x6mm screws

11



Add the stepper motor to the "motor mount" and fasten with M3x6 screws

12



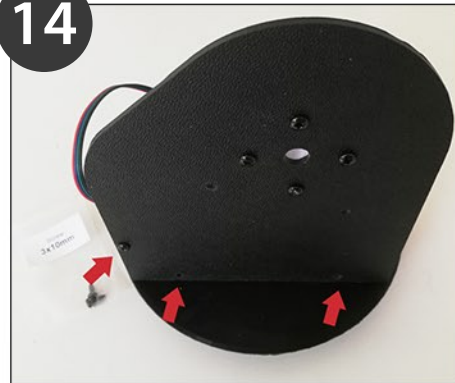
Fasten the limit switch with long cable to the motor mount with 2x10mm screws

13



Mount the "bearings" to the smooth side of the "sides" with M3x8 screws and nuts

14



Fasten the left "side" to the assembly with 3pcs 3x10mm screws

15



Prepare the threaded rod with 2 lock nuts, 1 hex nut and 1 flange nut like this

16



Fasten the large wormgear tight since this will support a lot of weight later

17



Sand both the gears to remove imperfections

18



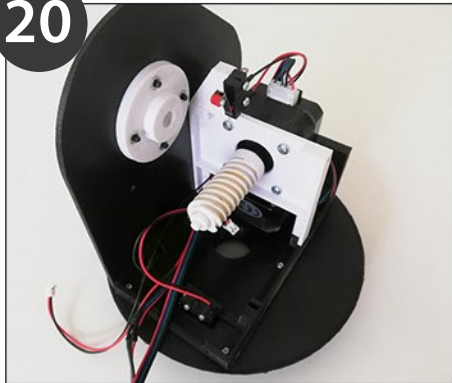
Push the "small wormgear" onto the motor axle

19



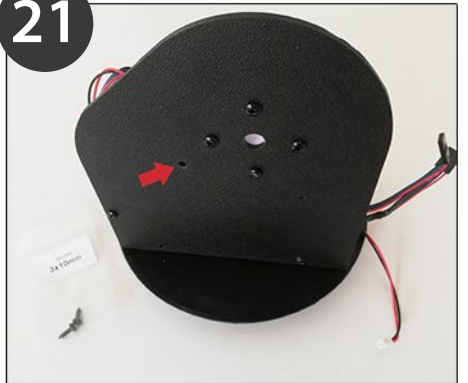
Apply grease evenly on both the worm gears

20



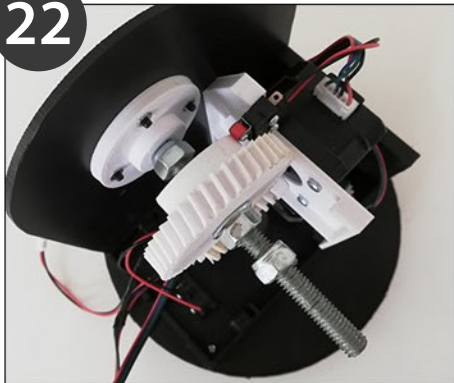
Put the motor assembly in the slots of the bottom mount

21



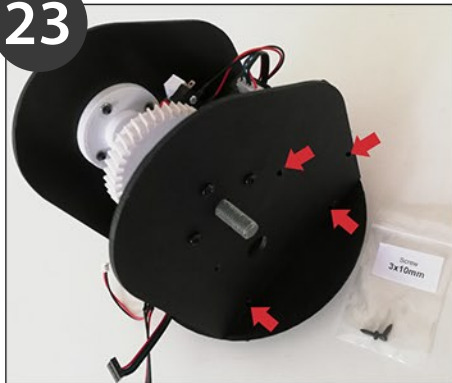
Fasten to the side with a 3x10mm screw

22



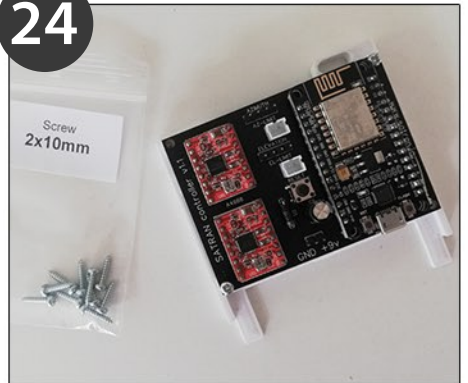
Put the threaded rod through the bearing and on top of the worm gear

23



Fasten the other "side" to the assembly, adjust the lock nuts to center the gear

24



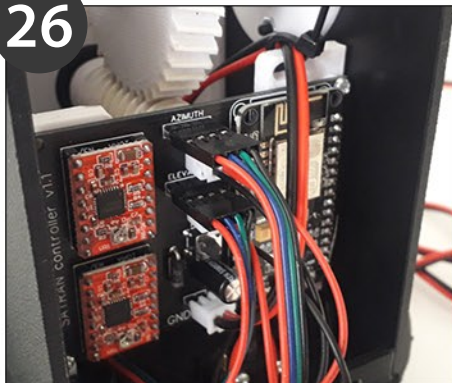
Mount the control board to the "circuit holder" with 2x10mm screws

25



Put the circuit holder in the slots of the bottom mount and bring the cables under, fasten with 3x10mm screws

26

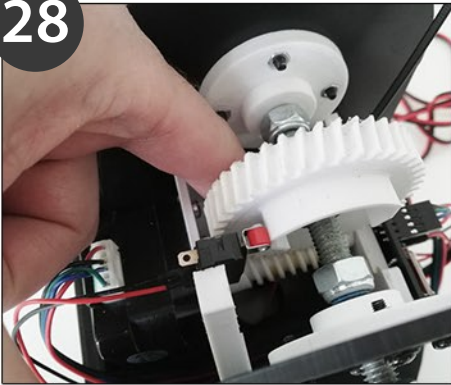


Plug in the cables. The red motor wire should be facing the red drivers to the left

27



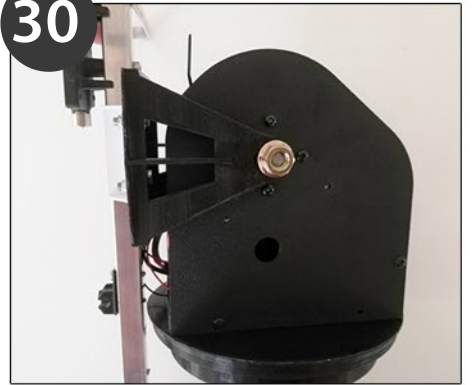
Add hex nuts and then a flange nut to each side of the threaded rod

**28**

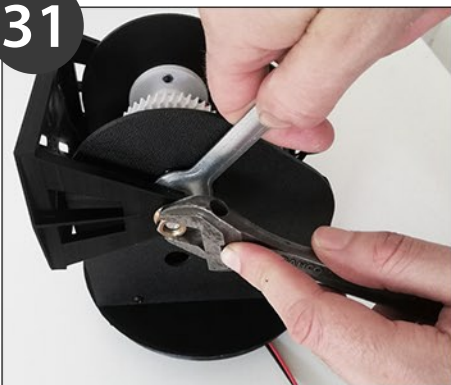
Use your fingers to turn the wormgear into position, where you will hear a "click"

**29**

Fasten an antenna of your choice to the antenna mount

**30**

Add the antenna to the threaded rod in an exact vertical position

**31**

Fasten firmly, while making sure the gears don't move out of position

**32**

With your finger move the gears to bring the antenna down about 20 degrees



Finished! Proceed with the wifi setup, and when everything works you can fasten the top housing.

## Wifi Setup Process

1. Open your smartphone or computer and connect to the wifi named "SATRAN\_setup".
2. Open your browser and enter 192.168.4.1 as the address.
3. Choose your local wifi network from the list, enter your password and save.
4. Now the rotator starts to move, make sure it can move without hitting something.
5. Login to your router and find out what IP-address the Satran has received. It can be a good idea to assign a static IP to the Satran so it doesn't change when you reboot.
6. Download and install the Android app "Satran Control" from Google Play
7. Go to the tab "settings" and enter your GPS position and the IP of your satran, save.

Great work! Your Satran is now ready to be activated and start tracking satellites.

If it didn't work or you need to change the wifi, press and hold the "reset" button on the control board until the LED-light turns on. Then start over the setup process.