1. Place the motor firmly in a place where the roof can make a complete open and close trip with no obstacles
2. Place the controller box screwing it to the wall at a proper distance according to the cable length
3. Place the rack close to the motor in a way that the pinion can be engaged and disengaged in a solid and lineal way. A way to do it is placing the pinion to 3/4 of its farthest position and screwing the rack 2 or 3 mm away of the pinion while we move the roof. You can watch the procedure in this video: https://youtu.be/SNugO9MVZCY
4. By moving the roof manually, the Open and Closed sensors and their respective magnets can be placed in the appropriate position, with the elements facing each other, in the maximum opening and closing position desired by the user. The appropriate distance between the sensor and the magnet is between 3 and 5mm, depending on the type of surface where we have placed them. Ferromagnetic surfaces will disperse the magnetic field of the magnet and attenuate its strength.
5. Engage the motor with the rack approximately at 50% of the travel. When engaged, the pinion should have a clearance of about 1mm. A tight contact between pinion and rack should be avoided.
6. Install the necessary programs to run the T6 driver on your PC and connect to the controller. In the driver we will have visual information about when the sensors are activated (faced with the magnets).
7. When turned on, the controller defaults to 50% if none of the Open or Closed sensors is active.
8. Make a small test of the direction of movement, either by opening or closing to make sure that the direction of movement is the correct one and then press STOP. If the ceiling moves opposite to the expected direction, we will have to change the direction of rotation in the driver by entering: Setup / Motor Setup / Parameters / Click the "Reverse Motor" checkbox .... We exit by pressing OK, and pressing again OK in the Setup.
9. Close the ceiling, by pressing Close on the keypad of the box or on the driver. Make sure that the Closed sensor is detected (the LED RCL Roof Closed lights green in the driver). If you see that there is physical contact when closing the ceiling against any element, release this pressure by advancing the magnet so that the motor stops a few mm before that happens.
10. T6 still does not know exactly the length of the roof with precision, so it may fall short or long in the test runs, be aware of the STOP button in case you should stop it before having a mechanical shock or the pinion disengage the rack .
11. With the roof closed (with all the sensors in place and having checked in the driver that they were activated properly when we moved the roof manually) we can press "Calibrate" on the Driver.
12. The system will make a complete opening according to the TICKS written in: Setup / Encoder Ticks, by default 50,000, "MAKE SURE THE LOOK FOR SENSORS CHECKBOX IS TICKED"
13. If the roof makes the entire opening, starting with an acceleration ramp, continue at maximum speed and then decelerate until it finds the Open sensor, congratulations, your Talon6 is calibrated and ready to use. If the trip is not complete and the roof

stops slowly without reaching the Open sensor, close it again by pressing Close on the keypad or on the driver and enter the Setup. Increase the TICKS proportionally to the amount of distance left to reach the sensor. Perform the "Calibrate" operation again.

14. Once the ceiling is calibrated, be sure to activate the relevant safety measures in the "Closing Condition" Setup with the times you choose.
15. Any changes you make to the driver and you want to be permanent must be saved with "Save Configuration".
16. A slight greasing of the rack and pinion will smooth the movement and will attenuate the mechanical noise produced by their contact.

Any questions or suggestions: miguelang555@gmail.com / aperez@fi.upm.es

Remote Pc / Pc assistance through AnyDesk