

FLAVIASpeed Ebike Tuning



Giant from 2017

Operating manual Installation guide





Read these instructions completely before using the device, keep the instructions and pass them on when handing over the device to other persons!

Product Features

The device offers the following functions after installation in eBikes with Giant Syncdrive Sport or Pro drive system (25km/ h):

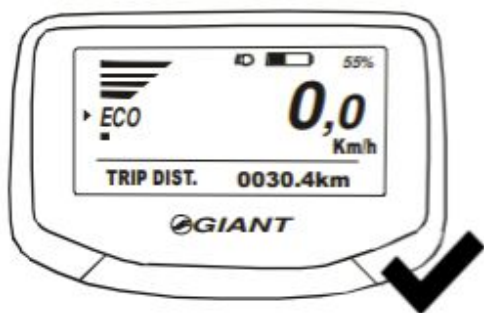
- Speed limit adjustable from 25 to 99 km/ h via handlebar control buttons
- Adjustable dynamic mode with reduced "wall effect"
- Correct display of speed and distance
- Correct total distance after removal of the tuning module
- Wheel circumference adjustable with handlebar control buttons.

All settings are made via the operating unit on the eBike. No smartphone or notebook is required.

The module is internally protected from splash water by a protective coating of the entire electronics.

Intended Use

The device is only suitable for installation in model year 2017 and 2018 eBikes with Giant Syncdrive Sport or Pro drive system in conjunction with EVO or CHARGE display.



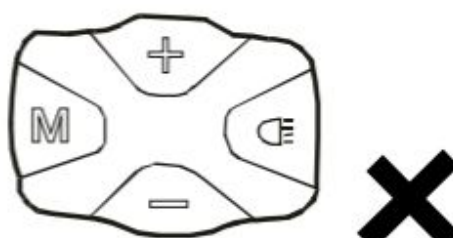
Display EVO



Display CHARGE



Remote from 2017



Remote until 2016

Legal and Safety Notes / Product Liability

- Operation of the eBike in public traffic is no longer permitted after installation of the module. The use is only allowed on private areas or designated test and race tracks.
- Damage caused in conjunction with the operation of the eBike will no longer be covered by private liability insurance after installation.
- Liability and warranty claims against the dealer or manufacturer of the eBike expire or are constricted.
- The eBike is subject to higher mechanical stress when operating at higher speed for which it is not designed. This results in additional safety risks
- The installation and operation of the module is at your own risk. The manufacturer accepts no liability for damage that is connected with the operation of the device.
- Please inform yourself about possible further technical and legal consequences before installing the device.

Technical Data

Housing dimensions: 43mm x 22mm x 11 mm

Cable length: approx. 140mm

Weight: 0,025kg

Power consumption: 0,2W

Supply voltage: 5VDC.

Installation (Example: Giant Full E-0+ 0 Pro)

Required tools:

- Torx TX20 / TX25 / TX30 keys
- Allen key 6mm
- ISIS crank puller
- Lock ring tool for Giant / Yamaha PW-X
- Chain whip tool (optional).

Procedure:

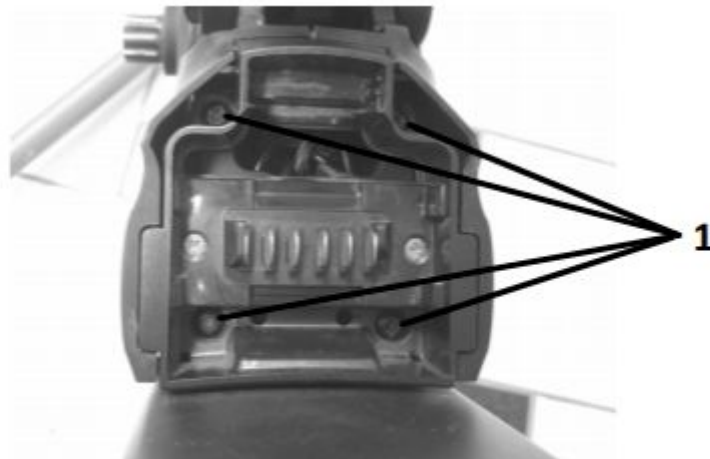
1. Remove battery.
2. Remove both cranks with Allen key 6mm and crank puller.



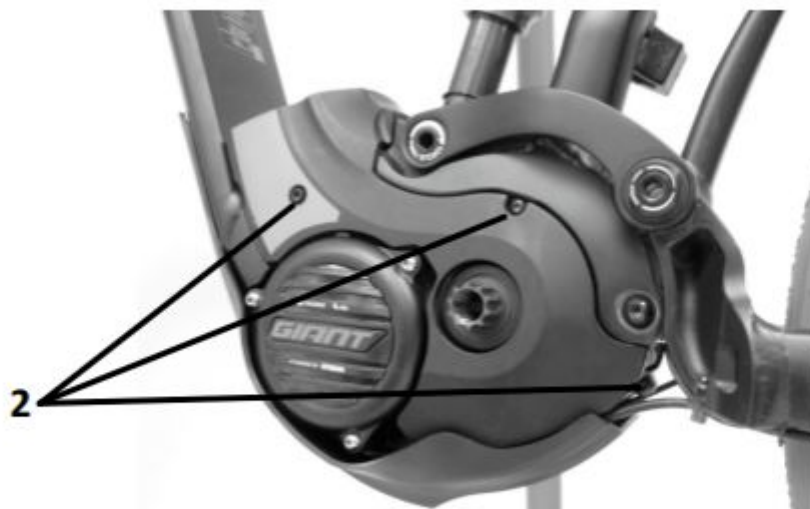
3. Remove lock ring from the chain ring with special tool. Attention: left-hand thread! Remove chain ring.



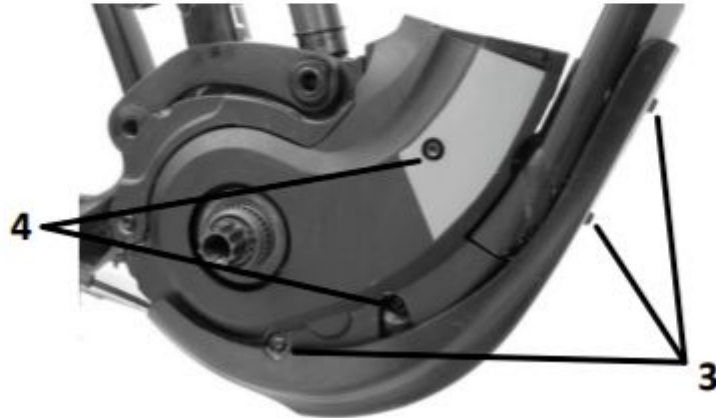
4. Remove screws (1) on the battery holder.



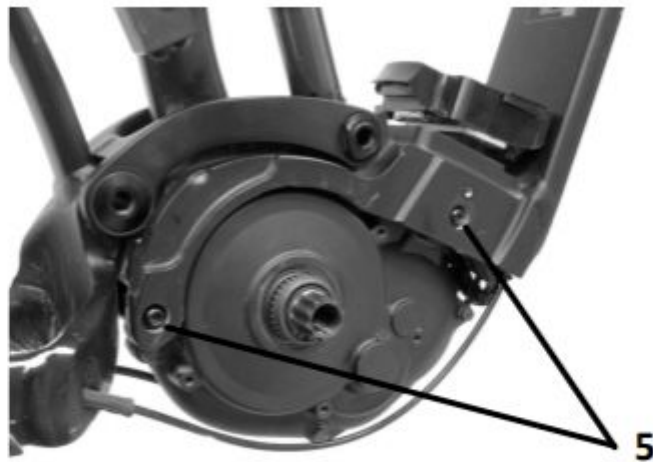
5. Remove screws (2) and left motor cover.



6. Unscrew screws (3) and remove skid plate. Then remove the right motor cover by loosening the screws (4).



7. Remove the motor mounting screws on the right (5).



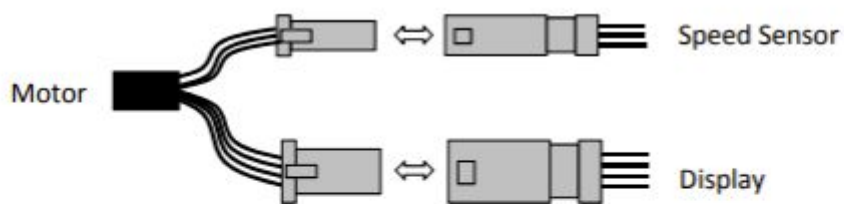
8. Remove the left front motor mounting bolt (6) and loosen the rear (7).



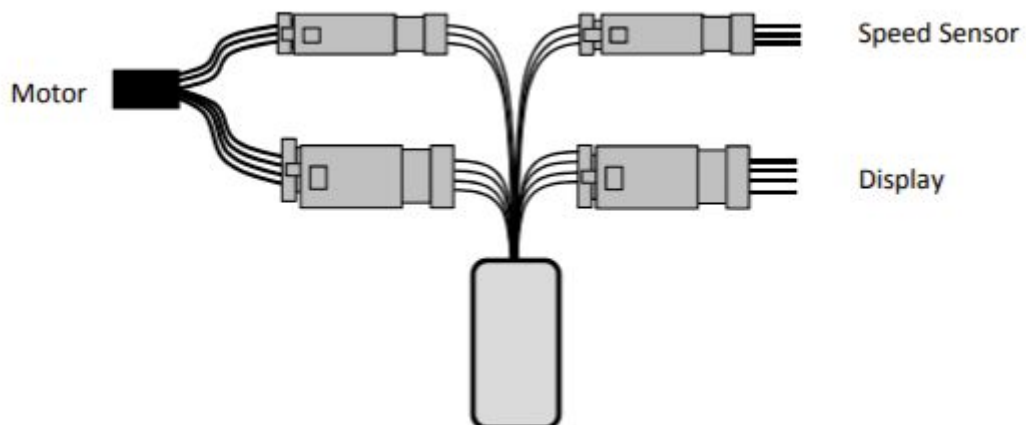
9. Lower the motor as shown.



10. Remove the cables from the down tube and disconnect the white 8-pin connector to the display and the white 3-pin connector to the speed sensor.



11. Plug in the tuning module as shown.



12. Insert the battery and carry out the initialization, see separate point setup.

13. If setup succeeds, remove the battery again.
14. Place the tuning module in the down tube and route the cable so that the motor can be fully folded up again.
15. Fold up the motor and reassemble the screws (6) and (7). Do not squeeze any cables. Then screw in the motor mounting screws (5) again.
16. Reassemble the skid plate and the side covers with the screws (2), (3) and (4).
17. Reassemble the battery holder with the screws (1).
18. Insert battery.

Setup

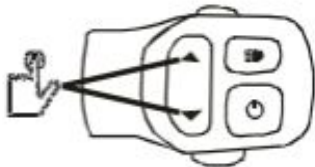
Before the first use of the tuning module or after conversion to another bike the setup must always be carried out first. Even in the case of malfunctions, a defined state of the module can be restored by executing the setup.



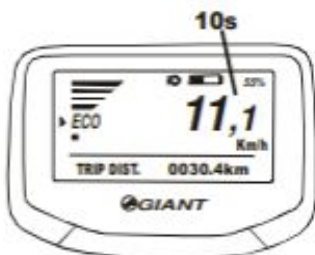
The following illustrations show the EVO display. The operation of the CHARGE is identical, but not shown here.



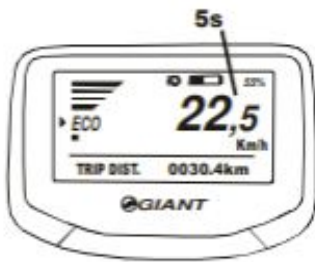
Turn on the eBike.



Press „arrow down“ twice, afterwards „arrow up“ twice and „arrow down“ twice again.



Speed 11.1 km/ h is displayed for 10 seconds.



The wheel circumference stored in the drive unit is displayed for 5 seconds in centimeters. If necessary, adjust with the "arrow up" and "arrow down" buttons.



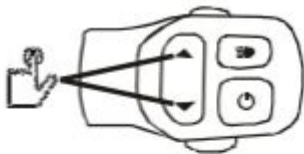
As soon as 0.0 km/h is displayed, the setup is finished.

Speed Mode

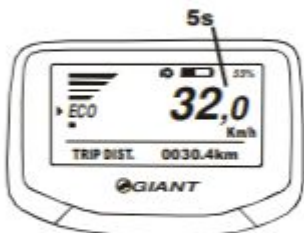
When speed mode is activated, the speed limit for the motor assistance is increased. The limit can be set from 25 to 99 km/h.

Turning off the eBike automatically turns off speed mode and must be reactivated after the bike is turned on.

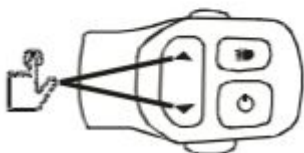
Activation / Limit adjustment



Press alternately "arrow down" and "arrow up" twice in quick succession.



Speed limit is displayed for 5 seconds.

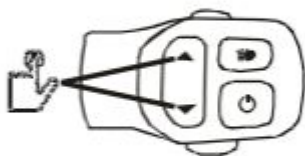


If desired, use the "arrow up" and "arrow down" keys to change. Possible values: 25 to 99 km/h. Default value: 32 km/h.

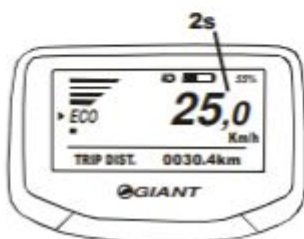
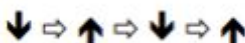


Display shows the normal driving speed again. Speed mode is active.

Deactivation



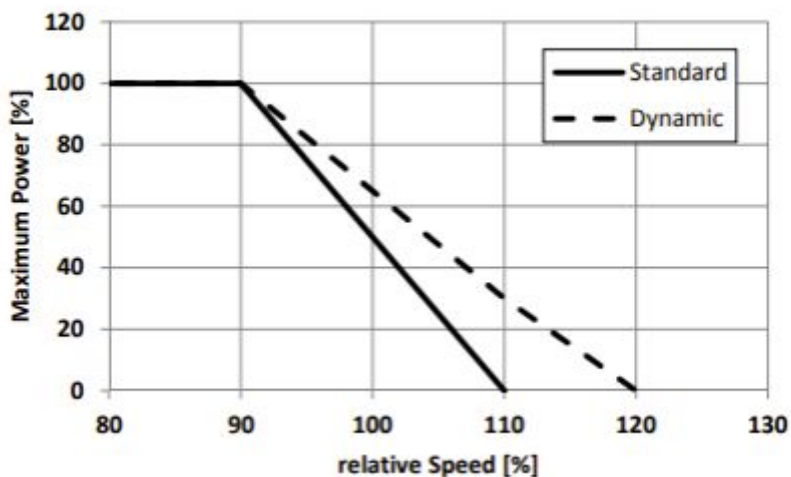
Press alternately "arrow down" and "arrow up" twice in quick succession.



Display shows 25.0km/ h for 2 seconds. Speed mode is off.

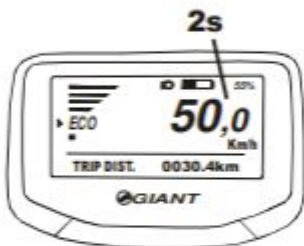
Dynamic Mode

Exceeding the speed limit the motor power is reduced by default very much. A higher pedal force then results no longer in a higher speed, but in a lower motor assistance. For a more natural driving emotion in the dynamic mode the reduction is spread over a larger speed range, the so-called "wall effect" is significantly reduced and it can be driven with much more constant pedal force. The dynamic mode can only be activated when the speed mode is activated.

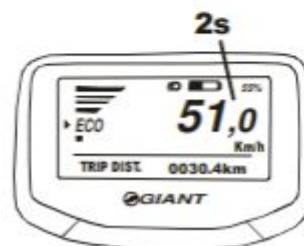




While driving (> 10km/ h), press the pushing assist button for 2 seconds.



Dynamic mode off: 50.0 km/ h is displayed for 2 seconds.



Dynamic mode on: 50.1 km/ h is displayed for 2 seconds.

FAQ

Is the total mileage correct even after removing the module?

Yes. The total km measured by the drive unit are not changed by the tuning. This is ensured by a continuously working compensation function in the tuning module. However, before removing the module, the bike should remain switched on at standstill with the speed mode switched on until it shuts off by itself. This will ensure that the compensation function has correctly adjusted the mileage. However, any wheel circumference adjusted during the setup does not affect the mileage of the drive unit and there are deviations after removing the module.

The displayed distance (Odometer, Trip) or the speed is not correct. What can I do?

Run the setup again. As a result, the current mileage is taken over from the drive unit in the tuning module and you have the opportunity to re-adjust the wheel circumference if necessary.

Technical Support

For questions, suggestions or problems please email or phone.

Ing. Dietmar Resch Elektronik
Wagnastraße 93
8435 Wagna
Austria
Tel.: +43 664/3567856
Mail: kontakt@flaviaspeed.at

In addition to your request for support inquiries, please include the following information:

- Serial number and purchase number of the tuning module (S/N, P/N)
- eBike manufacturer, type and year of manufacture
- Display type
- Software version of display
- Drive unit type
- Software version of drive unit
- Speed limit drive unit (e.g. 25km/ h)

To ensure that you always have the device data, you can enter it here before installing the device:

Purchase number (P/N):

Serial number (S/N):

Disposal The tuning module should be disposed of in an environmentally correct manner.
For EC countries:



Electronic devices are valuable materials and do not belong in the household waste. Dispose of the product at the end of its life in accordance with applicable legislation.