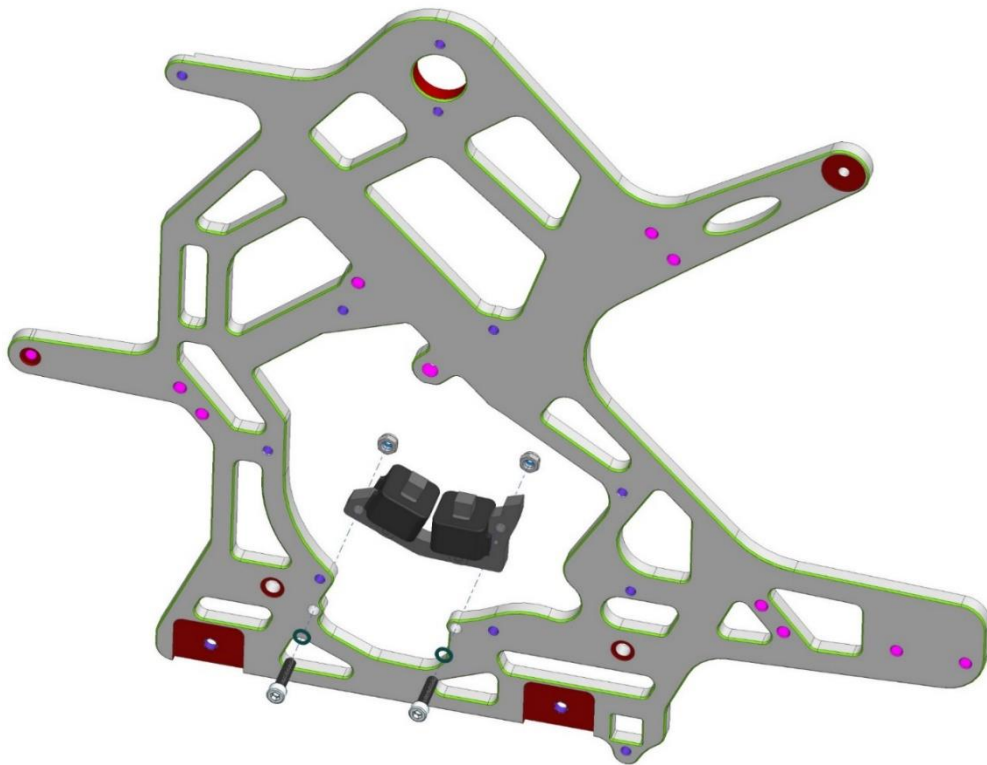


# Generator power upgrade

## Installation manual



helvenco AG  
Buchmattstrasse 46, 3400 Burgdorf, Switzerland  
[www.helvenco.com](http://www.helvenco.com) / [info@helvenco.com](mailto:info@helvenco.com) / +41 34 426 66 66

# Generator power upgrade

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## Scope of supply



- 1x Generator/stator
- 1x Connection cable Y
- 1x Distance feeler gauge 1.2 mm
- 1x Mounting set (Screws and nuts)



# Generator power upgrade

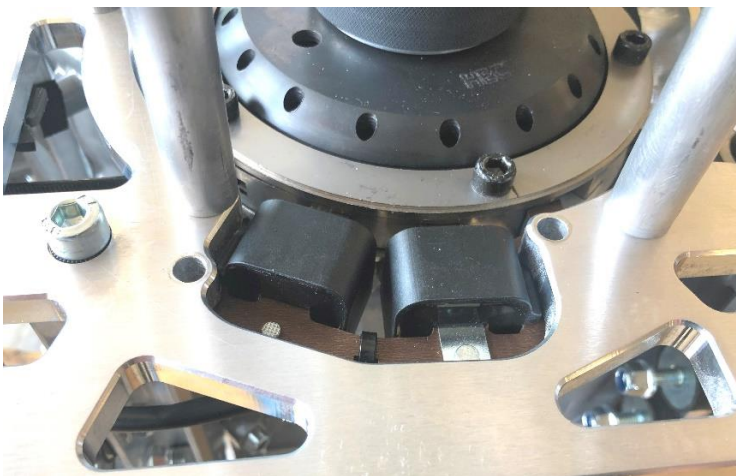
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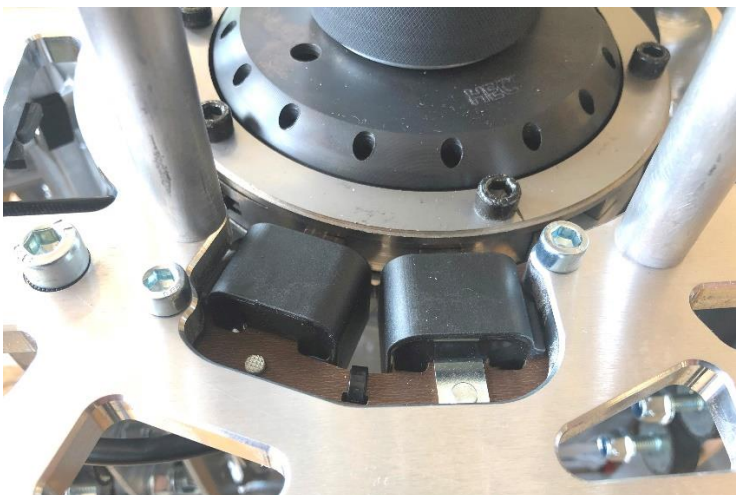
First take a tie-wrap and add it to the feeler gauge. This makes it easier to remove it after installation.



Then place the feeler gauge on the magnets of the generator rotor as shown.



Next install the generator stator from the back side of the plate. Ensure the feeler gauge is fully between the stator and the magnets.



Use the 2 supplied screws and nuts to fixate the stator.

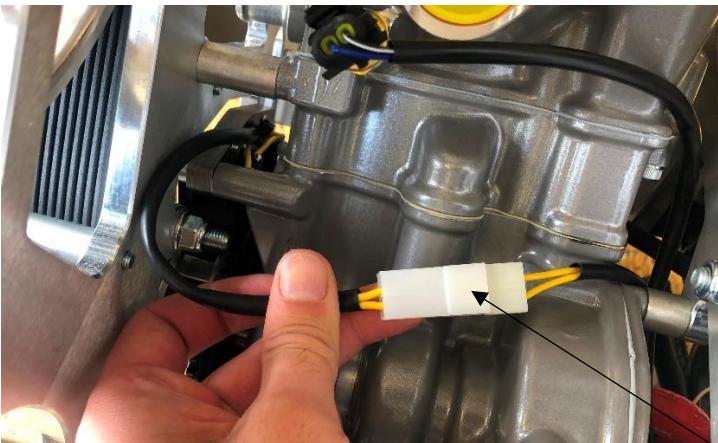
Screws tighten with  
12 Nm / 8,85 ft-lb

# Generator power upgrade



Place the stator cable around the engine mount as shown. Use a tie-wrap and fixate it as shown.

**Important:** Don't fix electrical cables directly at the frame! Always use a rubber between to avoid problems caused by vibrations.



Next disconnect the original stator from the electrical wire harness.



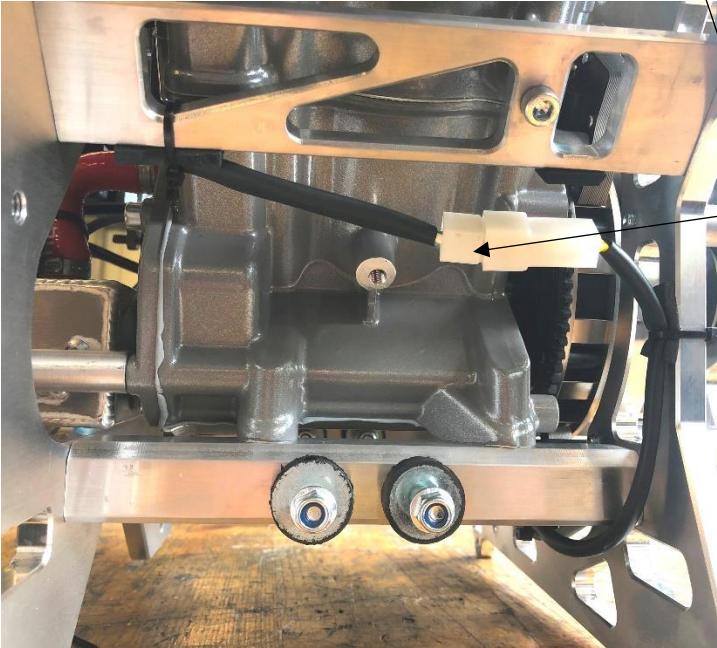


# Generator power upgrade

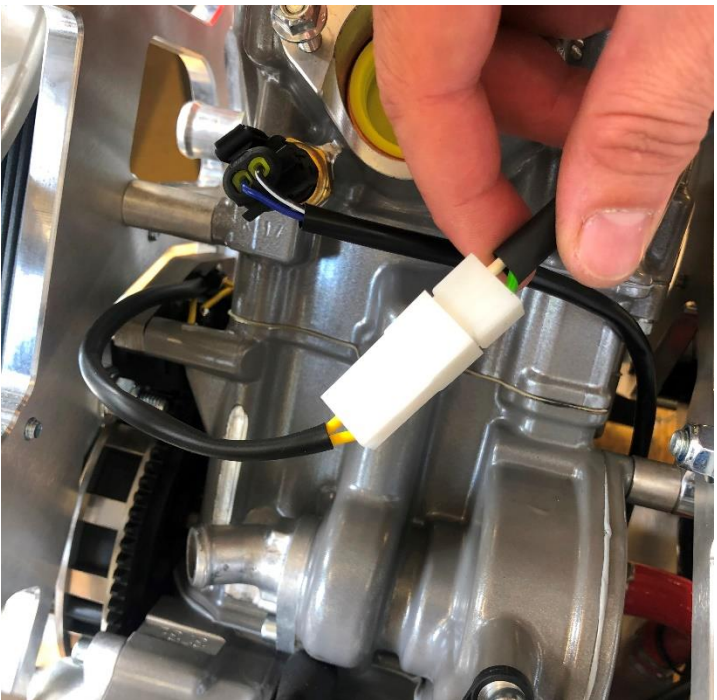
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As you can see the connection cable has a longer and a shorter side.



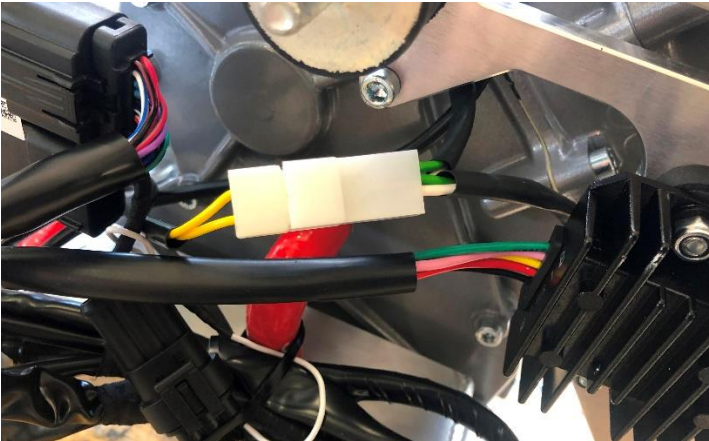
Take the longer side and connect it to the new installed stator. Attach the cable with a tie-wrap as shown.



Place the short side of the connection cable between the front plate and the motor and connect it with the original stator.

# Generator power upgrade

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Finally connect the connection cable to the electrical wire harness.

	Single stator values (original)			Double stator values (upgrade)			
RPM 1/min	Voltage (V)	Current (A)	Power (W)	Voltage (V)	Current (A)	Power (W)	Power factor
1550	11.70	2.1	24.6	12.60	4.0	50.4	2.05
5000	12.30	3.0	36.9	12.70	6.1	77.5	2.10
7000	12.30	3.0	36.9	12.70	6.2	78.7	2.13
9000	12.30	3.0	36.9	12.70	6.3	80.0	2.17