

Maintenance C50

Release: 09/2005



Maintenance C50-Acro-Competition

Dear Customer

Thank you very much for purchase of the C50-Acro-Competition motor,
A new generation of High-End-Motor "Made in Germany".

This power-system offer high power efficiency combined with low weight and compact dimensions.
For best performance and reliability, use this guide for regrease the gearbox all 50 to 70 flights.

You have to remove the gearbox, clean the gearbox, pinions and needlebearings, put new grease inside and mount the gearbox. Please read this guidance one time completely and than begin step by step.

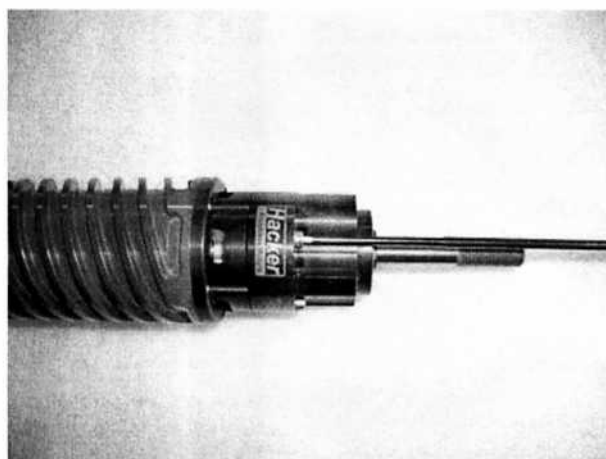
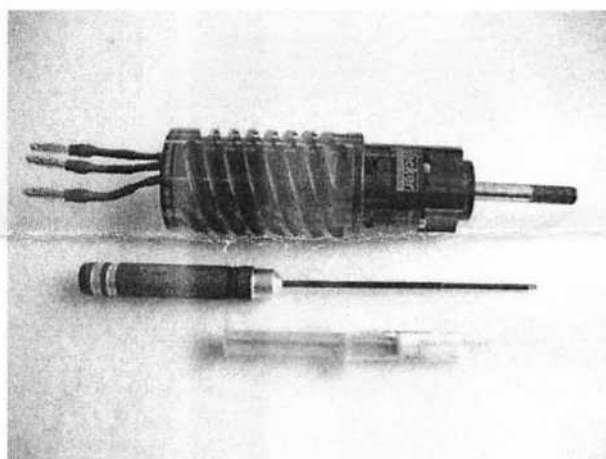
If you have any questions, feel free to contact us:

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Phone: +49-8761-752 129

You need the following equipment:

- Clean Desk
- Hex key wrench, size 2
- Special grease "C50-Competition" (available as sparepart)
- Kleenex
- Loctite® 222

- Unscrew the four screws which hold the gearbox on the motor
- Begin with screws on opposite positions
- First, just open the screws very carefully (max. 1/4 turn)
- When all four screws are completely unlocked, you can put the screws out
- Put the screws on your side



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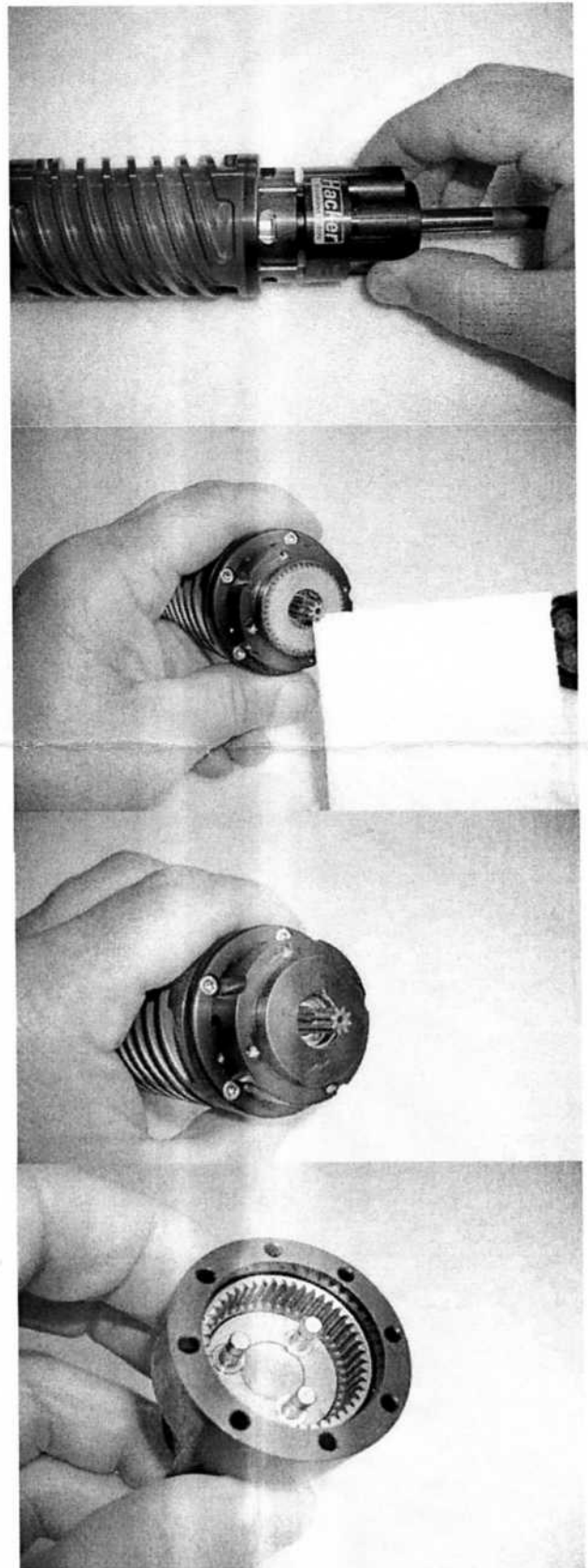


- Pull the gearbox off very carefully
- Do this "inline" with the motor

- Clean the motorfrontplate from old grease by using a Kleenex

- Take the washer off
- Clean the washer also

- Remove the planetary-Pinions
- Clean the gearbox inside from old grease
- Don't use chemical cleaners! These will destroy the grease in the ballbearings of the outputshaft!
- Take care on the three small washer. Put these back on the small shafts inside of the gearbox



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- Clean the planetary gears from old grease
- Put a small quantum of new grease on each of the three small shafts
- Fill the planetary gears with new grease
- Put the syringe on the planetary gears
- Put your finger on the other side to close the hole
- Press now the grease inside the planetary gear
- The gears should be filled completely
- Check this from both sides
- Put the gears now back on the small shafts
- Check the direction! You must be able to read the words on the bearings!
- Push it on the shaft by using your index-finger
- Put a small quantum of grease in the middle
- A small quantum is enough



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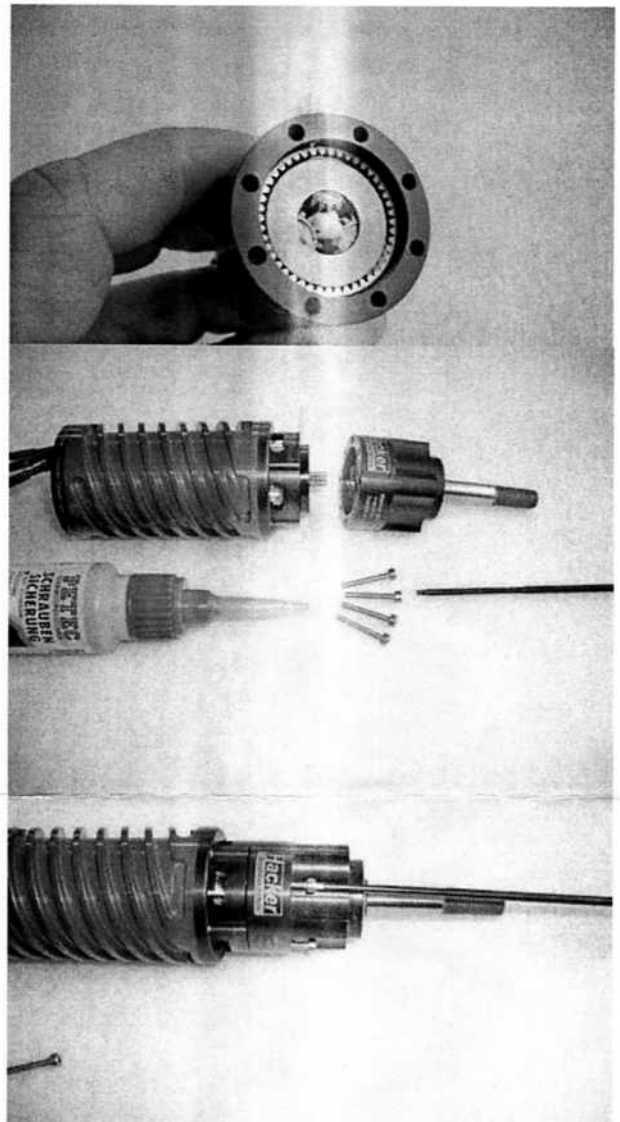
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-Put the washer back on top of the planetary gears. The washer must fit inside the ring

-Clean the screws from old Loctite
-Put the gearbox careful on the motor
-Check the right positioning by turning the outputshaft with your fingers
-Put a small quantum of Loctite 222 on the screws just before mounting

-Turn the screw careful in
-Screw on opposite sides to avoid bending the gearbox by mounting
-Check this by turning the outputshaft
-Please take care that you do not damage the screws and the threads by lock to much
-Normal "torque" is quite O.K.



Turn the outputshaft. The gearbox must run without any jerk! Take care that you do not make a shortcut on the wires by holding the motor.

Only when the motor runs O.K. you are allowed to put the motor back into the model.

Make the first run very careful! If you feel or hear any unnormal noise, stop immediately and disconnect the battery!

If you have any questions, feel free to contact us!

Many happy landings!

Hacker Motor GmbH

Service

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