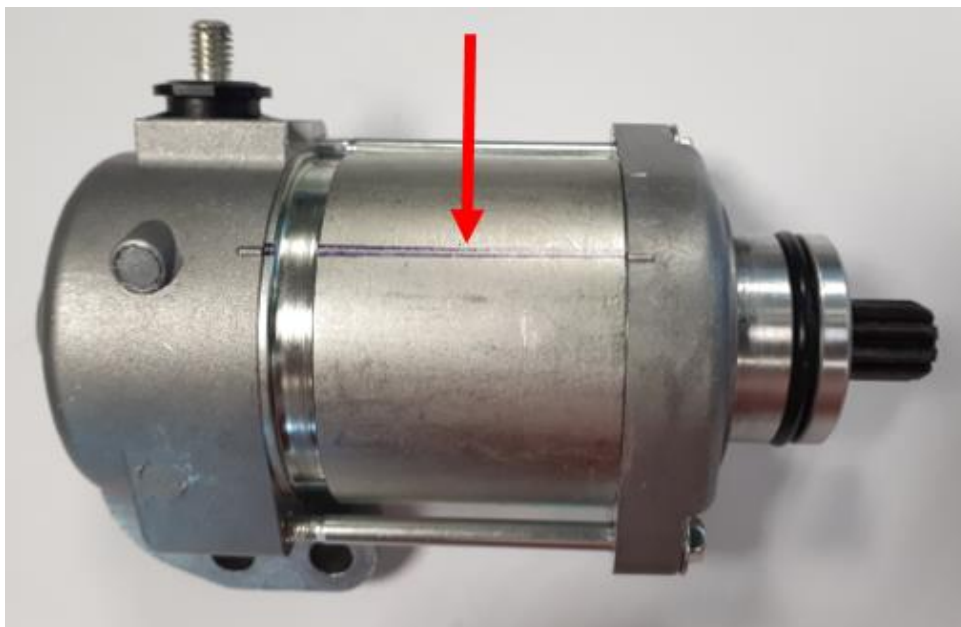


Technical Information (TI) from Factory to Distributors

MODEL and YEAR: EC 250/300 2015-19 CONTACT 2017-19	SUBJECT: START ENGINE MAINTENENCE	RELEASE DATE: 17/04/2019	TI Nº: GGT – 09/2019
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Symptoms:	With the battery charged, the electric start does not work properly. On the other side, using the start pedal, it boots correctly due to the usage of the motor brushes. One of the points to check is the wear of the brushes of the starter motor.
Repair procedure:	Maintenance process of the starter motor: 1.Dissassemble the motor. ENDURO  TRIAL  - Extract the screw from the ground cable to the starting motor support. - Disassemble the 5 screws that support the starting motor with the ignition case. 2. Check the status of the starting motor brushes. 

- Before disassembling the starting motor, check the position of the head marks, body and bearing head.



- Then, remove the two long screws from the starter motor.
- Disassemble the spindle very carefully together with the winding shaft.



- Visually check the condition of the inductor and the brushes.



Brushes in poor condition

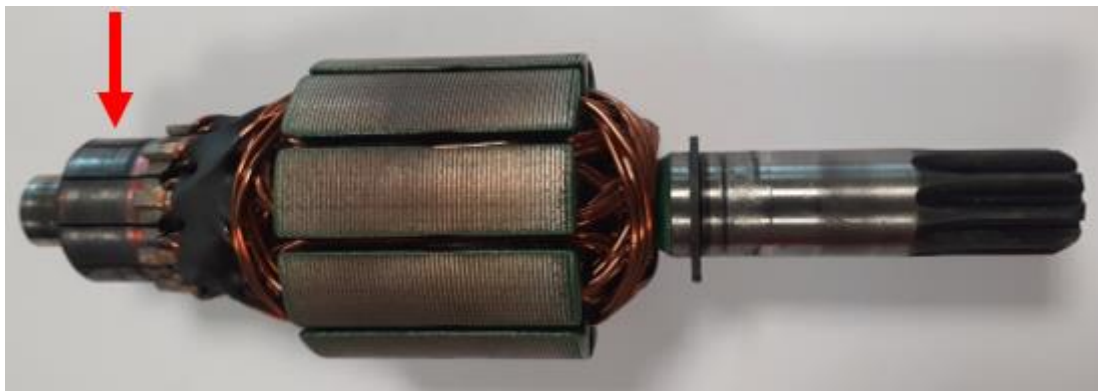


Brushes in good condition

- If the brushes are damaged, you will see that the spring has lost preload, therefore they will be separated from the rotor.
- The point on the brushes marks the limit of use. If the wear exceeds this limit, you have to change the part.

3. Clear winding rotor.

- Rub and clean the carbon adhered to the rotor with sandpaper.



4. Set starter motor.

- Once the above processes are done, proceed to assembly again the starter motor.
- First, open the brushes to correctly enter the winding shaft.
- Second, assemble the starter body with the position of the body lines indicated in the first point of the maintenance instruction.
- Fit the two bolts of the starter motor body.
- Next, proceed to assemble the motor in the starter cover. Fit the pinion shaft gear to the starter gear and when the teeth are engaged, tighten the engine until it stops mechanically and make sure that the seal has entered correctly.
- Fit the 5 screws that hold the starter motor with the ignition cover support.
- Mount the screw of the ground cable to the starter motor support.
- Place the starter motor relay cable on top of the starter motor.

5. Checking.

Once the assembly is completed, and with the battery fully charged, start the engine with the electric start and make sure the engine turns well allowing a clean start with the engine cold.

Order parts:

Reference to introduce the parts in the platform are:

- ENDURO: 5UM-81801-10
- TRIAL: 5UM-81801-10

Labour time

NOT WARRANTY