



Rotax 503 UL / 503 UL DCDI: Subsequent fitting of "C" gearbox


This Service Information refers to all Rotax UL engines type 503 UL and 503 UL DCDI, fan-cooled.

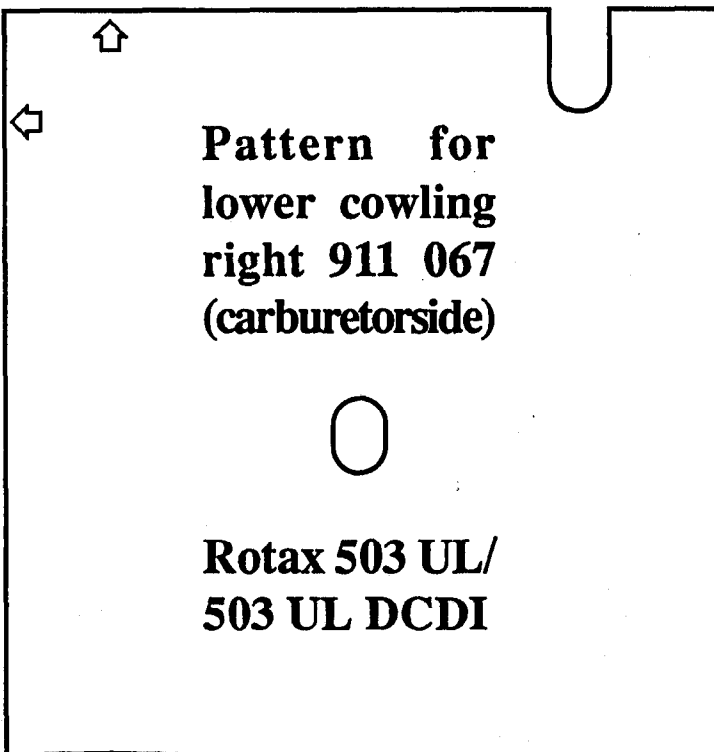
Due to change of „C“-gearbox from sand casting to **permanent mold casting with re-inforced fitting flange** it is necessary to reshape the two cowling lower parts (911 067 and 911 069) in the area of the fitting flange.

The newly shaped lower cowlings (part no. 810 270 and 810 271) were introduced in engine production as of serial number **3,984.708**.

If you wish to fit a „C“ gearbox of permanent mold casting version subsequently to an engine 503 UL or 503 UL DCDI (of a serial number below the one indicated above) you can only fit it after having reshaped the lower cowlings as per pattern enclosed.

Procedure:

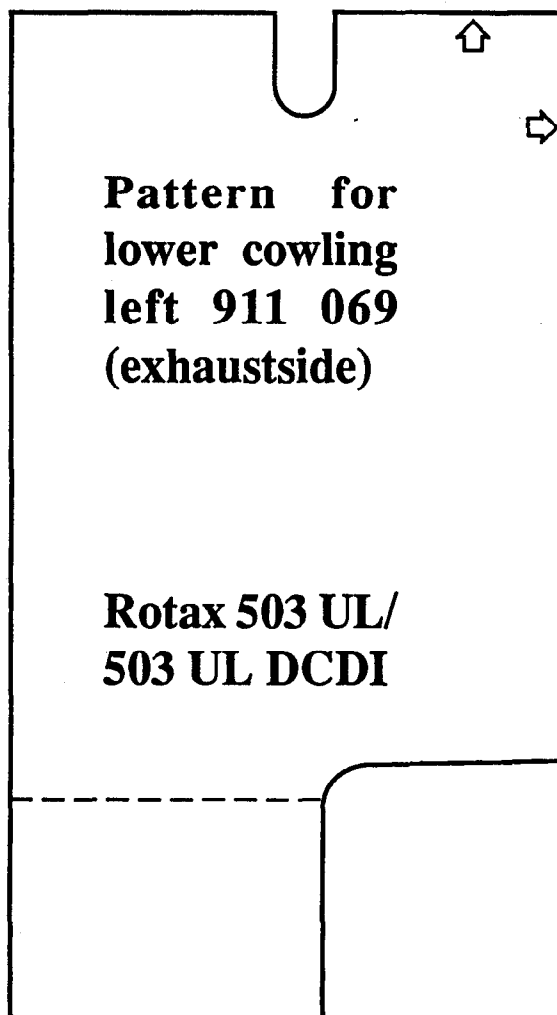
- Cut out the pattern or make a pattern of carton.
- Remove lower cowlings from engine.
- Place the respective pattern onto the respective cowling lower part (right side: carburetor side, left side: exhaust side) according to their reference marks  and mark the pattern contour on the cowling with a scribing pin.
- Cut-off at the scribe line.
- Straighten the contour on both cowling lower parts.
- Apply protective paint to the cutting edge.
- Refit cowlings and finish engine mounting.



**Pattern for
lower cowling
right 911 067
(carburetorside)**



**Rotax 503 UL/
503 UL DCDI**



**Pattern for
lower cowling
left 911 069
(exhaustside)**

**Rotax 503 UL/
503 UL DCDI**