

**REPLACING OF FLAPS IN AIR FILTER HOLDER WITH PRE-HEATING****Necessary tools:**

Tools	Quantity
Pliers	1 pc
Spanner 5	1 pc
Spanner 7	1 pc
Driller with drill Ø6	1 pc
Abrasive coated paper 150	-

**List of material (WT9-1-AIRBOX-REPAS):**

No.	Item	Quantity
[7]	Washer Ø6,4x12x1,6	2 pcs
[8]	Two-arm pre-heating flap axis	1 pc
[9]	Single-arm pre-heating flap axis	1 pc
[10]	Flap	2 pcs
[11]	Airbox bushing Ø5x0,5x3	2 pcs
[12]	Washer Ø4,3x12x1	4 pcs
[13]	Spring	2 pcs
[14]	Cotter pin Ø1,6x25	2 pcs
[15]	Epoxy glue	Not included

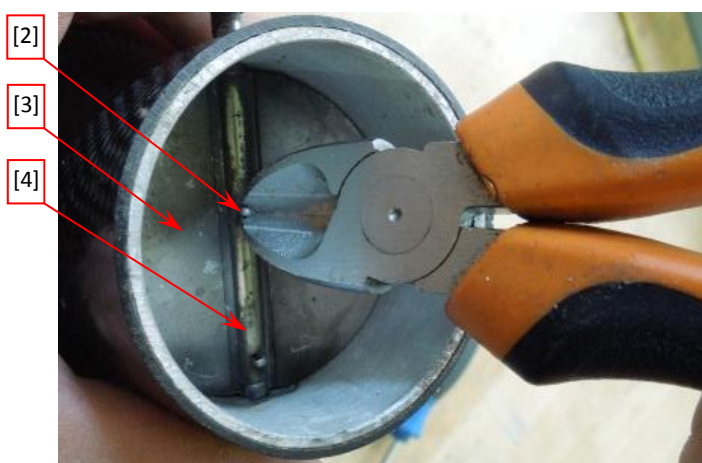
*Note: Some parts of original system may differ from displayed components but the process remains unchanged.*

**Procedure:**

1. Disconnect the modelling endings of connecting rod ends [1] from ball pins (fig. 1).

*Fig. 1 Disconnecting of connecting rod*

2. Remove cotter pins [2] from both flaps, remove both flaps [3] and axis of flaps [4] from air filter holder with pre-heating body (AFHB) (fig. 2).

*Fig 2 Removing of cotter pins*

3. Unscrew self-locking nuts [5] and remove ball pins [6] from axes [4] (fig. 3).

*Fig. 3 Removing of ball pins*

4. Waste the original flaps and flap axes, clean properly other parts (fig. 4).



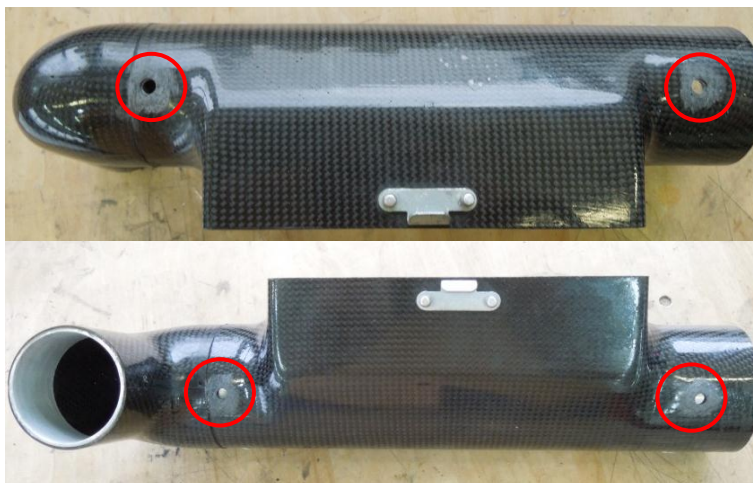
*Fig. 4 Removed parts from AFHB*

5. Enlarge two upper holes in AFHB due to new axes using driller  $\varnothing 6$  (fig. 5).



*Fig. 5 Enlarging of upper holes*

6. Sand the surrounding of upper and lower holes for axes (fig. 6).



*Fig. 6 Sanding of hole's surrounding*

7. Pull the washers [7] on two-arm [8] and single-arm pre-heating flap axis [9], insert the flaps [10] into AFHB in correct position and pass the axes [8] and [9] through the flaps from the top (flaps pass through the axes with noticeable resistance). From the bellow pull the airbox bushings [11] on the axes and press them into AFHB. Pull the washers [12], springs [13] and washers [12] on the axes and lock them using cotter pins [14] (fig. 7 and fig. 8).

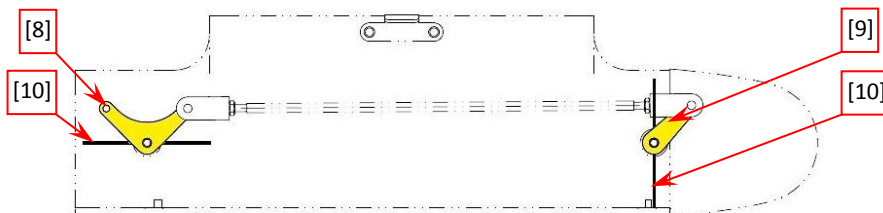


Fig. 7 Position of flaps and axes



Fig 8 Installed flap with axis (displayed two-arm preheating flap axis)

8. Check the free rotation of flaps. If necessary grind the flap until will fit well (fig. 9).



Fig. 9 Flap finishing



9. Glue the washers [7] and [12] with AFHB using epoxy glue. Let the glue to harden. Take care to not stick the axes (fig. 10).



Fig. 10 Gluing of washers (displayed upper washer)

10. Put the ball pins [6] into the axes and tighten with self-locking nuts [5] (fig. 11).

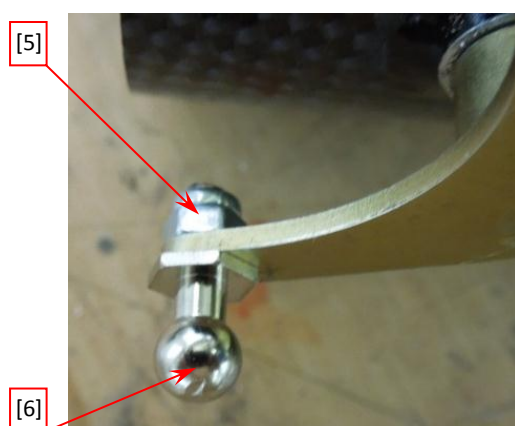


Fig. 1 Assembling of ball pins

11. Connect the modelling ending of connecting rod [1] to the ball pins. Check the closing and opening of flaps (if one flap is fully opened, second one have to be fully closed and vice-versa). If necessary adjust the opening and closing of flaps by screwing of modelling endings of connecting rod (fig. 12).



Fig. 12 Assembling of connecting rod

12. Grease all movable parts.