

AVIONS PIERRE ROBIN

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FRANCE

LETTRE DE SERVICE
SERVICE LETTER

N° 2

Objet Object : Braking system master cylinder rod return

Aircraft concerned : All aircraft equipped with disc brakes but not provided with a return spring on the master cylinder rod.

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On aircraft equipped with disc brakes, the return of the braking system master cylinder rod has been improved. This modification tends to cancel any possibility of residual wheel braking : to obtain this improvement, a return spring is fitted on the master cylinder rod (see fig. 1).

This operation may be performed, on HR 100/210 and HR 100/285 aircraft, as follows :

- 1 Disconnect the control rods from the 2 master cylinders located at the top of the firewall rear face (cabin side).
- 2 From the front of the firewall, remove the 2 bolts securing the bracket which supports the 2 master cylinders. Disconnect the 2 control rod return springs.
- 3 Pull the braking unit gently inside the cabin, taking care not to damage the piping connected to the master cylinders.
- 4 Remove the 8 mm dia. pin supporting the levers controlling the master cylinder rods.
- 5 Remove the master cylinder rods.
- 6 Modify the rods as shown on fig. 2 (machined groove).
- 7 Reassemble the rod, as shown on fig. 1, fitting the return spring, and the backing washer : fit the securing circlip in the machined groove.
- 8 Fit the braking unit back in position and make sure that the rod travels sufficiently to ensure adequate braking action.

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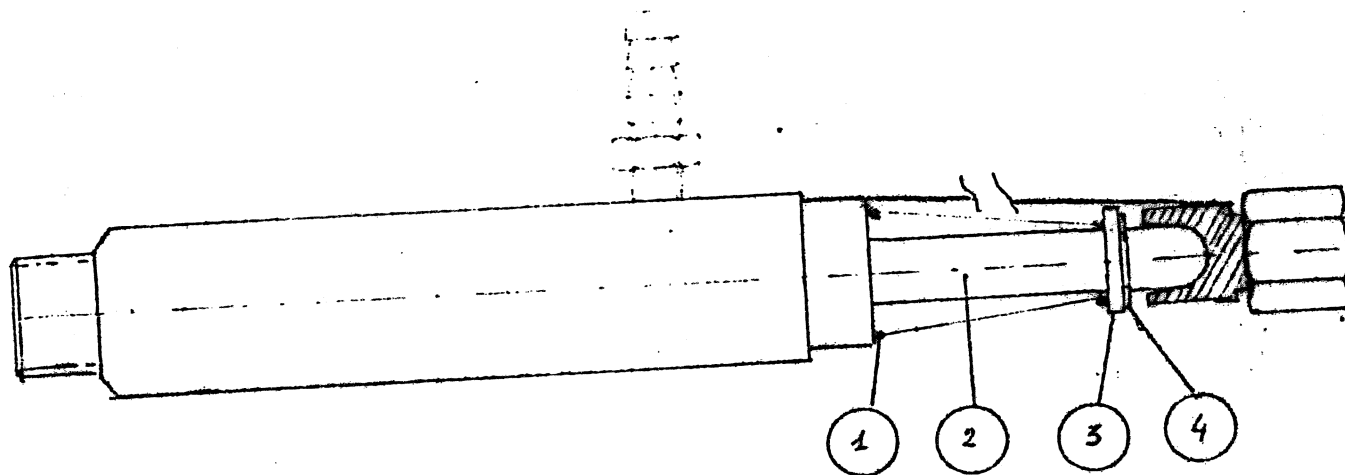
On type HR 200 aircraft there is no need to remove the braking unit : the master cylinder rods can be withdrawn by simply removing the 8 mm dia. pin and the control levers.

When the modification is completed, carry out a braking test.

Kit of parts to be ordered from AVIONS PIERRE ROBIN :

- 2 washers, 8 x 14 mm dia., n° 75.29.48.02
- 2 circlips, FREINAX "E", n° 75.29.48.03
- 2 return springs, n° 75.29.50.

FIGURE 1



- Item 1 : Spring
- 2 : Modified rod
- 3 : Washer, 8 x 14
- 4 : Circlip, FREINAX "E"

FIGURE 2

