Operation and Maintenance Manual for Airbus H135 Hydraulic Reservoir Bleed Tool

#AP-AIR290-2

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Overview:

The Super EC Bleed™ is designed to bleed the hydraulic reservoirs on the H135 helicopter manufactured by Airbus Helicopters. The tool has an ambidextrous function, and can be used effectively on the #1 and #2 system the same way. The following details will further reference operation, maintenance, and warranty. Read this manual in its entirety before use.

Operation:

Operation for bleeding air or to remove excess fluid:* (Note: It may be possible to complete this task without removing the transmission cowling.)

1. Assure the drain line is connected to the reservoir and routed into a drain tank.
2. Remove the pin and sight glass on the hydraulic reservoir, leaving the felt spacer in the reservoir.
3. With the threaded ram fully extended out of the barrel past the inspection hole, insert the cylinder of the tool over the fluid level indicator until it is seated in the reservoir, then insert pin. **Do not apply side or radial force to the tool while installed**. This may result in damage to the hydraulic reservoir.
4. Screw the knob and threaded ram into the tool until it contacts the fluid level indicator, then continue as required to push the air out of the system or bleed excess fluid. It may be desirable to compare the remaining travel of the fluid level indicator to the length of the threaded ram to prevent de-servicing past the “min” line on the sight glass.
5. Remove tool, drain line, and re-insert cover when done.

Operation for complete de-servicing of the hydraulic reservoir:* (Note: It may be possible to complete this task without removing the transmission cowling.)

1. Assure the drain line is connected to the reservoir and routed into a drain tank.
2. Remove the pin and sight glass on the hydraulic reservoir, leaving the felt spacer in the reservoir.
3. With the threaded ram fully extended out of the barrel past the inspection hole, insert the cylinder of the tool over the fluid level indicator until it is seated in the reservoir, then insert pin. **Do not apply side or radial force to the tool while installed**. This may result in damage to the hydraulic reservoir.
4. Screw the knob and threaded ram into the tool until it contacts the fluid level indicator, then continue as required to push all of the fluid out of the reservoir. This will be noted when the internal stop in the reservoir is contacted. Do not attempt to screw the threaded ram in any further. For this purpose, complete de-servicing does not require knowledge of the fluid level indicator’s position, so there is no visual conformation.
5. Remove tool, drain line, and re-insert cover when done.

Note: *The hole facing "upward" is only for visual reference during bleeding due to "over-servicing". Pushing the fluid level indicator to the forward edge of the drilled hole will leave the reservoir at the "full" mark on the sight glass.*

Figure 1

Lubrication:

With the threaded ram fully inserted, apply a nominal amount of Aeroshell 33MS grease (or equivalent) though the grease zerk, to lubricate the threads as needed.

Maintenance:

Due to the required tolerances, the forward end of the tool is un-painted. Keep a light coating of corrosion preventative oil applied in this area to prevent corrosion. If light corrosion does occur, it may be polished out using a scotchbrite pad or equivalent. It should be noted that impact damage in the forward end of the tool may cause obstruction and / or damage to the aircraft reservoir. If the forward end becomes damaged, the tool should be tagged unserviceable, and sent back to us for inspection and / or re-work.

Storage:

Store the tool in a non-humid / dry environment to prevent corrosion and impact damage. **Keep the supplied cap on the forward end of the tool at all times during non-use.** This will protect the end of the tool from damage, and subsequently, the hydraulic reservoir.

Warranty:

We will warranty this tool to the original owner (with proof of purchase) for a period of one year from date of purchase against any defects in material and workmanship only. The customer is responsible for shipping the tool to us for warranty claims and we will pay for return economy shipping. Warranty may be in the form of a replacement, repair, or refund at the sole discretion of AP Tools LLC. Abuse, neglect, or use not congruent with its design function, will void all warranties expressed or implied. After warranty period either runs out or is nullified, current shop repair rates and parts pricing will apply. This warranty does not cover normal wear and tear.

Disclaimers:

Manufacturer / retailer assumes no liability for any material loss or bodily harm arising from the use / misuse of this tool.

*The instructions contained herein, are not intended or implied to overrule or precedent any applicable approved data.

Questions or comments about this tool? Contact us at the information below or visit us on the web at: **www.aptoolsllc.com**

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