

Piston Helicopter MRGB flushing procedures



11-6 (D) MRGB Flushing Procedures

- 1) Place the helicopter up on the wheels.
- 2) Set 1.5 inch blocks under the forward skid shoes and raise the left side wheel. (Helicopters with chip detectors.)
 - a) Older helicopters without chip detectors and the forward drain position will need to install a block under the forward right skid plate and leave both wheels down to position the drain port at the lowest point in the transmission.
- 3) Remove the left side upper access panel.
- 4) Drain the oil from the gearbox in accordance with section 4-13 in the Enstrom F-28/280 Series Maintenance Manual.
- 5) Remove the 28-13134-5 filler cap assembly.
- 6) Inspect the gears IAW the instructions detailed in 480 SIL T-064, 6.1 (C).
- 7) Use a syphon sprayer with kerosene, mineral spirits or equivalent oil based solvent to spray down the interior of the gearbox. Direct the aim of the sprayer around the inside of the gearbox and the ring gear and carrier while turning the gearbox.
 - a) The objective is to introduce sufficient volume of solvent to flush any debris out of the gearbox and drain it out the oil filter housing.
- 8) Allow the MRGB to drain completely.
- 9) Loosely install the drain plug in the bottom of the gearbox.
- 10) Add 4 qts of the gear lube that is currently being used in the gearbox.
- 11) Rotate the gearbox by hand 7-10 revolutions. (main rotor hub)
- 12) Remove drain plug and drain the gearbox while rotating the gearbox.
- 13) Allow gearbox to drain completely.
- 14) Inspect and clean the chip plug, if installed.
- 15) Install and safety the drain plug, (chip plug).
- 16) Install and secure filler cap assembly using a new 28-13107-13 gasket and torque bolts to 50 to 70 inch lbs,
- 17) Service the gearbox in accordance with section 4-12 in the F-28F/280 Series Maintenance Manual.
- 18) Remove the blocks from under the forward skids and set the ground handling wheels as desired.
- 19) Install the left side upper access panel.



