

PIPER COMANCHE SERVICE MANUAL

TABLE II-VIII. LUBRICATION - SPECIAL INSTRUCTIONS

- 1 CLEANING AND SERVICING AIR FILTER REFER TO SERVICE MANUAL, POWER PLANT SECTION. FOR APPROPRIATE FILTER AND INSTRUCTIONS DEPENDING ON EXISTING CONDITIONS, IT MAY BE NECESSARY TO CLEAN THE FILTER DAILY OR EVERY 5 HOURS.
- 2 LANDING GEAR AND FLAP TRANSMISSIONS AND SCREWS - IDENTIFY TYPE OF TRANSMISSION INSTALLED. DUKES HAS LABEL ON TRANSMISSION HOUSING, DURA HAS PART NO. 1010250 STAMPED ON TRANSMISSION HOUSING. DISASSEMBLE AND CLEAN. WHEN REASSEMBLING TRANSMISSION, FILL DUKES TRANSMISSION WITH:
 - a DUKES NO 4 LUBRICANT (PA-24-180, PA-24-250 AND PA-24-400)
 - b DUKES GREASE NO 2196-74-1 (PA-24-260)FILL DURA TRANSMISSION WITH MIL-G-7118 OR MIL-G-23827 GREASE. NO SUBSTITUTION IS ALLOWED IN EITHER TRANSMISSION. APPLY A THIN COAT OF MIL-G-7118 OR MIL-G-23827 GREASE ON ACTUATOR SCREWS. TRANSMISSIONS SHOULD BE DISASSEMBLED, CLEANED, INSPECTED AND LUBRICATED AT EACH 500 HOUR INTERVAL OR ANNUALLY. ACTUATOR SCREWS SHOULD BE LUBRICATED AT EACH 100 HOUR INTERVAL OR ANNUALLY.
- 3 OLEO STRUTS AND BRAKE RESERVOIR - FILL PER INSTRUCTIONS ON UNIT OR CONTAINER OR REFER TO SERVICE MANUAL, SECTION 11
- 4 LUBRICATE FLAP TRACK WITH DUPONT'S ALL PURPOSE SLIP SPRAY NO. 6611. FLAP ROLLERS AND TRACKS REQUIRE CLEANING AND LUBRICATION AFTER EXPOSURE TO AN ABNORMAL QUANTITY OF WATER, MUD, ETC. FLAPS WITH NYLON ROLLERS WILL NOT REQUIRE LUBRICATION ON EITHER FLAP TRACKS OR ROLLERS. (FOR LUBRICATION OF EARLY MODELS (PA-24-180 AND PA-24-250) FLAP HINGES, REFER TO FIGURE 2-25.
- 5 FUEL SELECTOR VALVES
 - a. THREE POSITION FUEL SELECTOR VALVE (PA-24-180 AND PA-24-250) - LUBRICATE AS REQUIRED. REFER TO LATEST SERVICE BULLETIN NO 354.
 - b. FIVE POSITION FUEL SELECTOR VALVE (PA-24-250 AND PA-24-260) - LUBRICATE DURING OVERHAUL. WHEN OVERHAULING, COAT O-RINGS WITH "PETROLATUM" PURE OIL CO. CODE 5603.
 - c. FUEL SELECTOR VALVE (PA-24-400) - LUBRICATE DURING OVERHAUL OF VALVE. NO INTERNAL LUBRICATION SERVICING IS RECOMMENDED.
- 6 SEE PARAGRAPH 2-81 FOR RECOMMENDED OIL CHANGE INTERVALS. SEE LATEST REVISION OF LYCOMING SERVICE INSTRUCTION NO. 1014 FOR USE OF DETERGENT OIL (MIL-L-22851). SEE TABLE II-VI OR LATEST REVISION OF LYCOMING SERVICE BULLETIN NO 480 FOR SPECIFIED OIL GRADE AND VISCOSITY.

NOTES

- 1 WHEEL BEARINGS - REQUIRE CLEANING AND REPACKING AFTER WATER EXPOSURE TO AN ABNORMAL QUANTITY OF WATER
- 2 BEARING AND BUSHINGS - CLEAN EXTERIOR BEFORE RELUBRICATING (EXCEPT SEALED BEARINGS)
- 3 LUBRICATION POINTS - WIPE ALL LUBRICATION POINTS CLEAN OF OLD GREASE, OIL, DIRT, ETC. BEFORE LUBRICATING
- 4 MISCELLANEOUS - DURING ROUTINE MAINTENANCE CHECKS, APPLY LUBRICANT TO MISCELLANEOUS LINKAGES

CAUTION

1. DO NOT USE A HYDRAULIC FLUID WITH A CASTOR OIL OR ESTER BASE.
2. DO NOT OVER LUBRICATE PEDESTAL CONTROLS AND COCKPIT CONTROLS.
3. DO NOT APPLY LUBRICANT TO RUBBER PARTS.
4. REMOVE ALL EXCESS GREASE FROM GREASE FITTINGS