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MANUAL PREVIEW

Davis

Service Manual

101 & 102 Loaders

Used on Various

Ford & Ferguson Tractors

Service Manual

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SERIES "K" CESSNA GEAR PUMPS



Series "K" Cessna Gear Pumps

DISASSEMBLY

Before disassembling a Cessna Gear Pump, you should first ascertain whether or not the pump is completely rebuildable. Any pump that has a prefix letter "K" in front of the serial number may be reconditioned completely. Only the seals and gaskets (items 8, 11, 12, 14, 15, 17, 18, and 19) are replaceable in pumps that do not have the prefix letter "K" in front of the serial number.

1. Remove key from shaft.
2. Clean outside of pump thoroughly.
3. Clamp pump in holding fixture, shaft down.
4. Remove four cap screws (1 and 2) and remove port plate (3).
5. Remove four cap screws (4).

6. Remove pump from holding fixture — hold pump in hands and bump shaft against wooden block to separate front plate (5) from back plate (6). Body will remain with either front plate or back plate.

7. To separate body from section it remains with, place drive gear (7) in bearing and tap protruding end with plastic hammer.

8. Remove diaphragm (8) from front plate by prying with sharp tool.

9. Lift spring (9) and steel ball (10) from front plate. **NOTE:** Earlier pumps have this check in idler shaft and gear.

10. Lift phenolic gasket (11) from front plate.

11. Lift moulded "V" seal (12) from front plate.

12. Remove six seal retainer screws (13).

LOADER CONTROL VALVE

SINGLE AND DOUBLE ACTION

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DISASSEMBLY

1. Remove valve from loader side frame.
2. Clean outside of valve thoroughly.
3. Clamp valve securely in a holding fixture.
4. Remove retaining screw (39), drive out lever pivot pin (38) and take off levers (32) and (35).

5. Remove cap screws (51), end plate (48), gasket (49), shims (50), spring (55) and steel relief ball (56). If valve seat requires replacement it can be removed with socket and extension.

CAUTION: Steel ball (56) is easily lost when removing end plate.

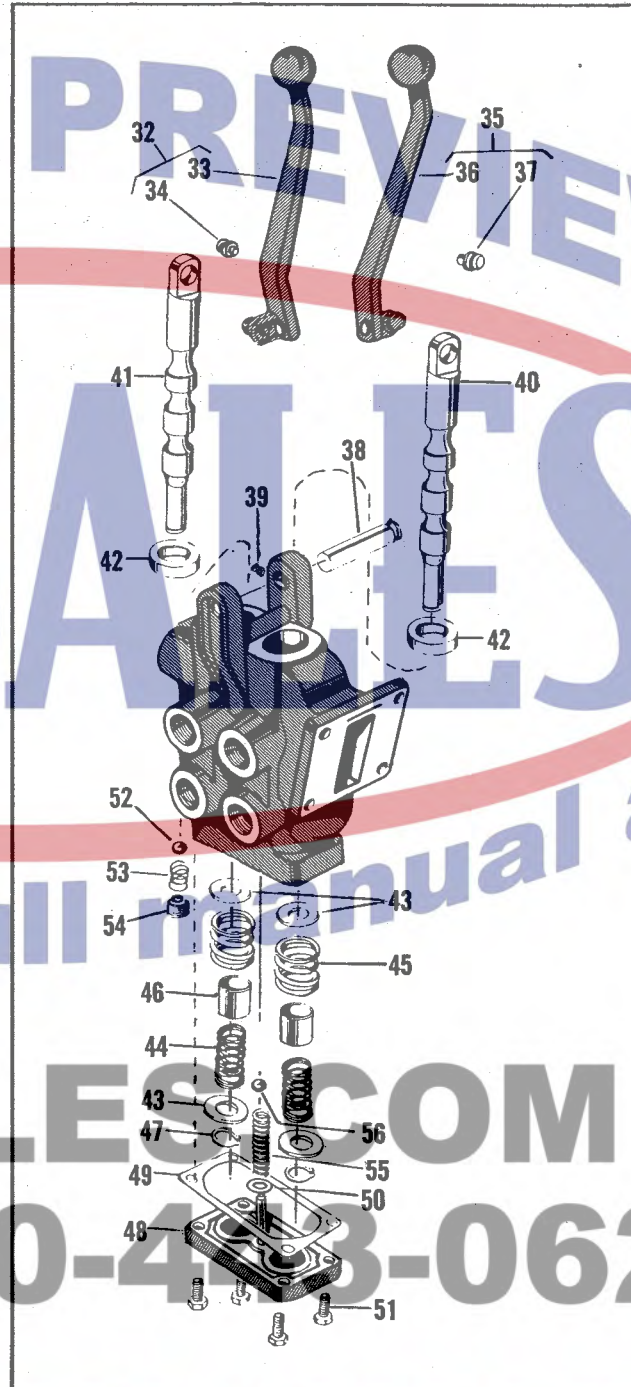
6. Remove limit plug (54), spring (53) and load check steel ball (52).
7. Remove spools (40 and 41) through bottom of housing.

NOTE: Caution. These spools are select fit to sleeve bore and must be reassembled in their respective bore. Sleeves in valve housing cannot be field serviced.

8. Remove oil seals (42). The seals will be damaged in removal and must be replaced with new ones. When prying out the seals be careful not to score or burr the seal bore.
9. It is not necessary to disassemble the spools unless a spring is broken. To disassemble a spool, remove snap ring (47), washer (43), spring (44), spool stop (46), spring (45) and washer (43).

INSPECT PARTS FOR WEAR

1. Remove nicks and burrs from all parts with emery cloth.
2. All gaskets and seals must be replaced with new parts.
3. Inspect relief valve ball seat in housing for pits or dirt.
4. Inspect springs for breakage.



Loader Control Valve

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