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MANUAL PREVIEW



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SERVICE MANUAL FOR
JOHN DEERE DEALERS

JOHN DEERE
CUSTOM
POWR-TROL

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Figure 10-5-27—Delayed Lift of Cultivator Rear Rigs by use of Front-Mounted Rockshaft

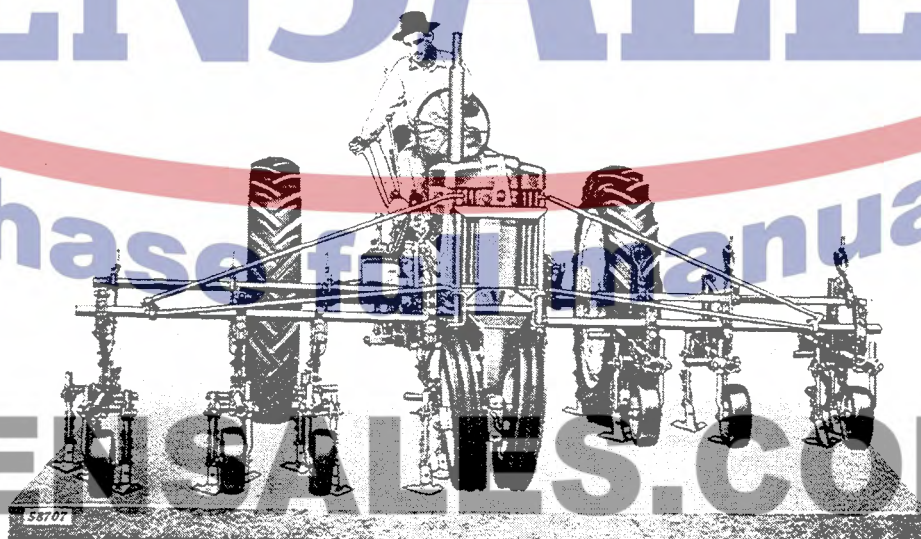


Figure 10-5-28—Selective Lift of Cultivator Front Rigs with "Split" Front-Mounted Rockshaft



Figure 20-5-3—Single-Action Cylinder Adjustment
—Single Valve Housing—“820” Tractor

LIFT LINKS.

The length of the lift links can be adjusted by means of the adjusting cranks (Figure 20-5-4). The selected position is locked by dropping the crank to the rear over the stop. The usual procedure is to adjust the left-hand lift link to the desired length and then adjust the right-hand lift link to level the implement.

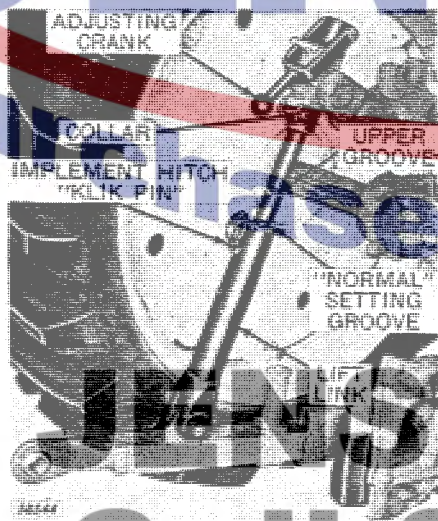


Figure 20-5-4—Left-Hand Lift Link

The left-hand lift link is usually set in the “normal” position which is indicated when the lower of two grooves around the lift link rod is lined up with the top of the lift link body (Figure 20-5-4).

If additional transport clearance is required for certain implements, shorten the left-hand lift link until the upper groove in the rod is flush with the lift link body. This shortens the lift link 2 inches. If additional working depth is required, the left-hand lift link can be extended 2 inches longer than the normal setting. Adjust the right-hand lift link to the same length as the left-hand link to level the implement.

Some implements are designed to “float”; that is, follow the contour of the ground (such implements usually have gauge wheels). When using one of these implements, remove collars from top of lift links to permit free up-and-down movement of the lift links. For safe keeping, install the collars below the shoulder on the lift links.

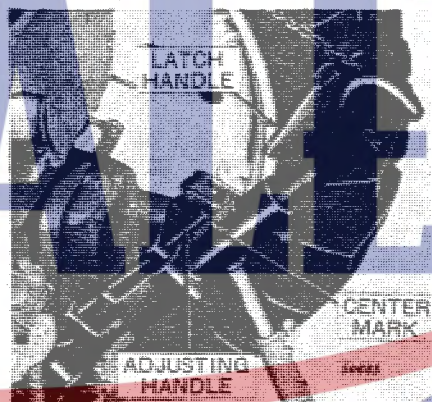


Figure 20-5-5—Upper Link

UPPER LINK.

Fore-and-aft leveling of the implement is accomplished by changing the length of the upper link (Figure 20-5-5). The handle on the upper link body is used to adjust the length of the link. The adjustment is locked by turning the handle parallel with the body and sliding it into a hole in the forward end of the upper link. When the end of the adjusting handle lines up with the center mark or projection on the link body, and the same number of threads are exposed at the upper and lower ends of the upper link, the link is at its normal length of 24-1/2 inches. Other settings will be necessary for some implements. Each projection on the body represents 1/2-inch change in length of the upper link.

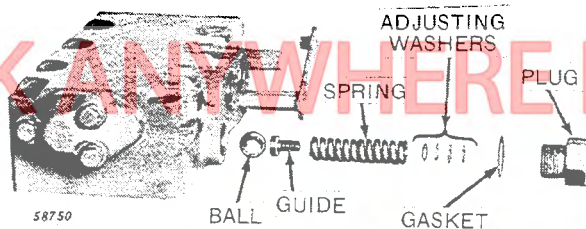


Figure 50-10-8—Exploded View of Relief Valve

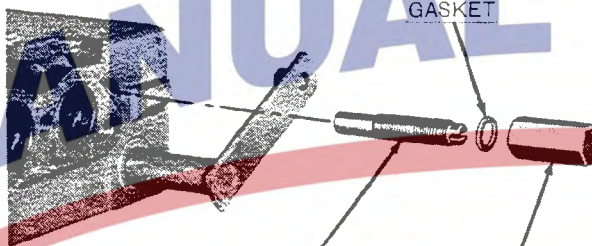


Figure 50-10-9—Single Action Cylinder Adapter
Screw Removed

Check Valves.

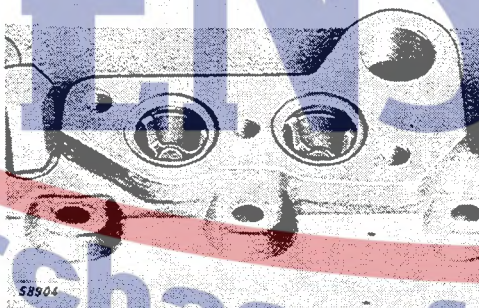


Figure 50-10-10—Check Valve Retainers

Pry out the check valve retainers (Figure 50-10-10). Tip the housing and shake out the check valve parts (Figure 50-10-11). Be sure all parts are removed and none are lost.

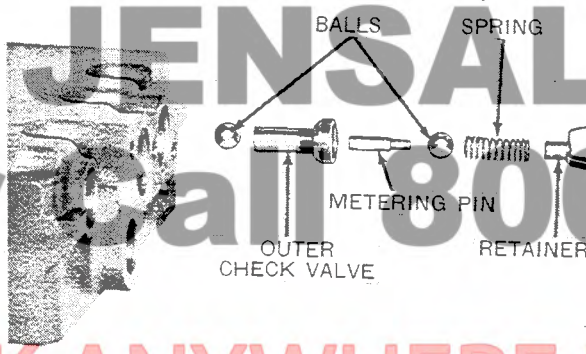


Figure 50-10-11—Exploded View of Check Valve

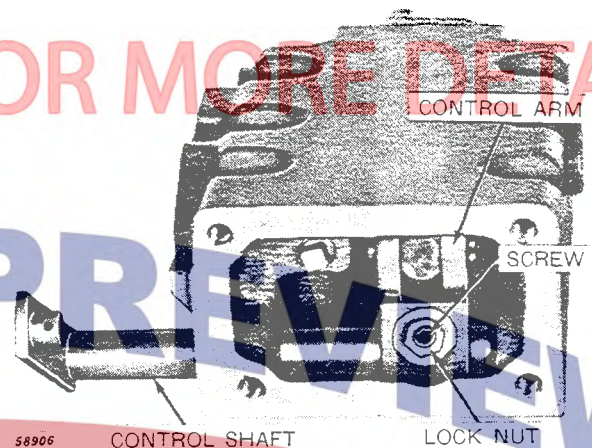


Figure 50-10-12—Control Arm Lock Screw and Lock
Nut

Control Shaft.

Before the control shaft can be removed, the cover must be taken off and the lock nut and set screw loosened (Figure 50-10-12). Pull the shaft out of the housing far enough so the Woodruff key is exposed and can be removed (Figure 50-10-13). The control shaft can then be removed from the housing.

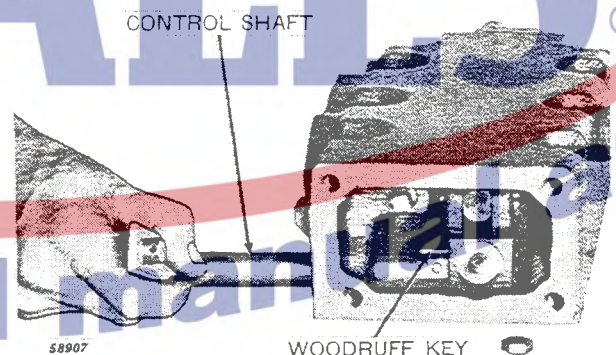


Figure 50-10-13—Removing Control Shaft



Figure 50-10-14—Control Valve Cover Removed

"720" TRACTORS

Dimension of New Part

Point of Measurement

Gasoline,
All-Fuel and
LP-Gas

Diesel

ID of Pump Body.....	2.453 ± .001	2.453 ± .001
OD of Driver and Follower Gears.....	2.4490 ± .0005	2.4490 ± .0005
Clearance between Pump Body and Gears.....	.0025 - .0055	.0135 - .0165
Thickness of Pump Body.....	.7900 ± .0005	.9080 ± .0005
Thickness of Pump Gears.....	.7867 ± .0003	.9047 ± .0003
Clearance between Pump Cover and Gears.....	.0025 - .0041	.0025 - .0041
ID of Follower Gear Bore.....	1.0008 ± .0003	1.0008 ± .0003
OD of Follower Gear Shaft.....	.9997 ± .0003	.9997 ± .0003
OD of Drive Shaft Outer End.....	.8087 ± .0005	.9997 ± .0003
ID of Drive Gear.....	1.0008 ± .0003	1.0008 ± .0003
ID of Drive Shaft Outer Bushing.....	.8117 ± .0005	1.0030 ± .0005
OD of Drive Shaft.....	.9997 ± .0003	.9997 ± .0003
ID of Drive Shaft Bushings.....	1.0030 ± .0005	1.0030 ± .0005
OD of Idler Gear Shaft.....	.9997 ± .0003	.9997 ± .0003
ID of Idler Gear Bushings.....	1.0030 ± .0005	1.0030 ± .0005

"820" TRACTORS

Point of Measurement

Dimension of New Part

ID of Pump Body.....	2.453 ± .001
OD of Driver and Follower Gears.....	2.4490 ± .0005
Clearance between Pump Body and Gears.....	.0025 - .0055
Thickness of Pump Body.....	1.0630 ± .0005
Thickness of Pump Gears.....	1.0597 ± .0003
Clearance between Pump Cover and Gears.....	.0025 - .0041
ID of Follower Gear Bore.....	1.0008 ± .0003
OD of Follower Gear Shaft.....	.9997 ± .0003
OD of Drive Shaft Outer End.....	.6870 ± .0005
ID of Drive Gear.....	1.0008 ± .0003
ID of Drive Shaft Outer Bushing.....	.6900 ± .0005
OD of Drive Shaft.....	.9997 ± .0003
ID of Drive Shaft Bushings.....	1.0030 ± .0005
OD of Idler Gear Shaft.....	.9997 ± .0003
ID of Idler Gear Bushings.....	1.0030 ± .0005