

Group 10

REAR WHEELS

DESCRIPTION

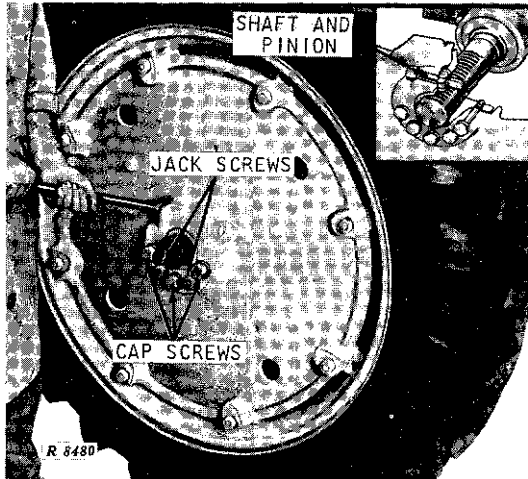


Fig. 220-10-1 - Rear Wheel Adjusting Shaft and Pinion

Row-crop tractors may be equipped with regular rear wheels, offset rear wheels, or power-adjusted rear wheels. In construction the three types are similar, except for the added components required for the power-adjusted wheels.

Standard tractors use regular wheels and regular axles only.

4010 Hi-Crop tractors use special cast disk wheels and hubs mounted on a flanged axle or adjustable axles with regular wheels.

The cast disk rear wheels are equipped with demountable rims. The wheels are moved in or out on the axles by means of a shaft and pinion which engages a rack on the axle (Fig. 220-10-1). Where it is necessary to obtain extreme ranges of tread adjustment, an offset "dished" cast disk wheel is used.

To facilitate mounting of a tire on the rim, a "deep-well" rim is used with 18.4-30, 18.4-34, or 23.1-26 tires. Double bevel rims are available for 18.4-30 and 18.4-34 tires.

Power-adjusted rear wheels, optional equipment on 4010 Row-Crop Tractors, make it possible to change wheel tread by engine power without jacking up the tractor (Fig. 220-10-2). Power-adjusted wheels are not available for 4020 Tractors.

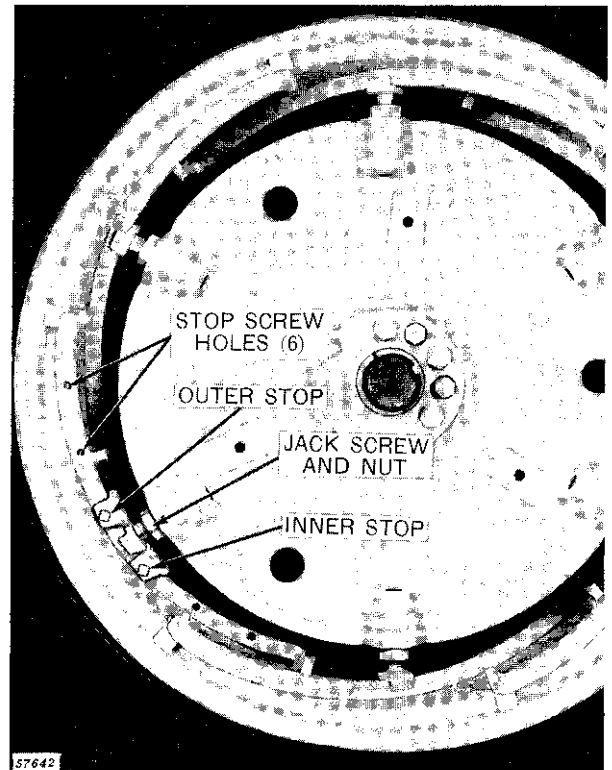


Fig. 220-10-2 - Power Adjusted Rear Wheel

Power-adjusted wheels can be moved in or out on the axles like regular wheels.

The power-adjusted wheels give seven different settings in 4-inch increments or a total of 24 inches of tread adjustment without moving the wheels on the axles.

Each power-adjusted wheel has six jack screws which clamp the wheel disk to spiral rails on the rim. One rail has six holes into which stops can be placed to pre-determine the new wheel setting.

REMOVAL

To remove a rear wheel, follow procedure given in tractor operator's manual for pinion and rack adjustment, except continue turning the pinion until the wheel comes off the axle.

DISASSEMBLY

Remove plug from hub which covers pinion shaft hole and drive the shaft out. Remove pinion (Fig. 220-10-3). Take out jack screws and sleeve-retaining cap screws. Remove sleeves.

ASSEMBLY

To assemble the parts, reverse the above procedure. Be sure to secure the upper pinion half-sleeve (3, Fig. 220-10-4) to the wheel with cap screws from the inner side of the wheel.

Locate jack screws and lower pinion half-sleeve (8) retaining cap screws as shown in Figure 220-10-1.

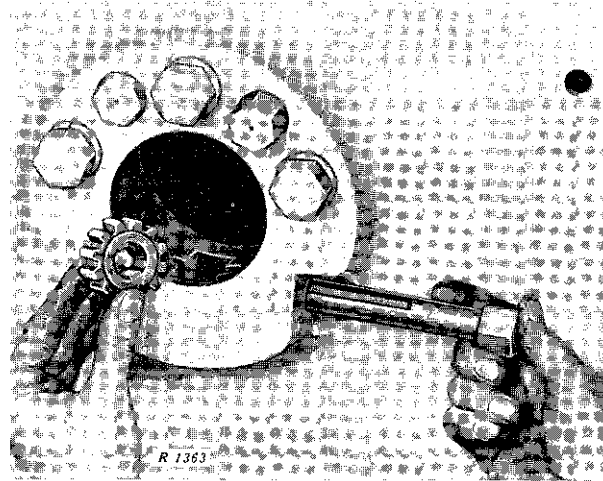
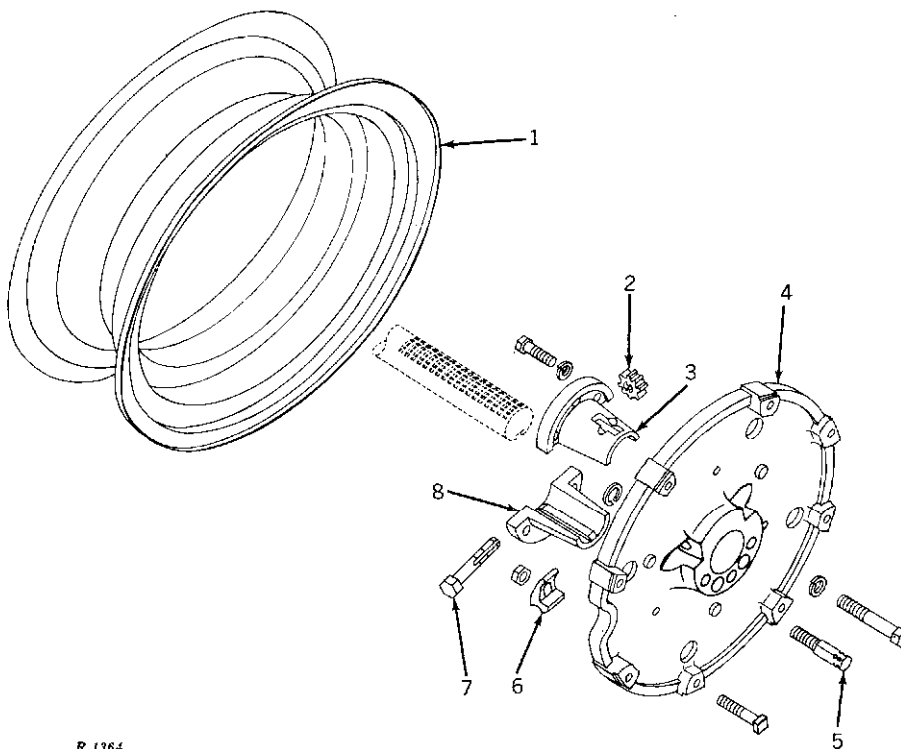


Fig. 220-10-3 – Removing Shaft and Pinion



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- 1 – Demountable Rim
- 2 – Pinion
- 3 – Upper Pinion Half Sleeve
- 4 – Cast Disk Wheel
- 5 – Jack Screws
- 6 – Rim Clamp
- 7 – Pinion Shaft
- 8 – Lower Pinion Half Sleeve

Fig. 220-10-4 – Exploded View of Regular Rear Wheel