

Differential

The differential provides equalized power to the rear wheels when turning.

The bevel gear of differential drive shaft (1, Fig. 7) engages with differential ring gear (2).



- a-Differential Drive Shaft with Bevel Gear
b-Differential Housing with Bevel Gear
c-Differential Housing
d-Differential Housing
e-Differential Housing

Fig. 7 - Differential

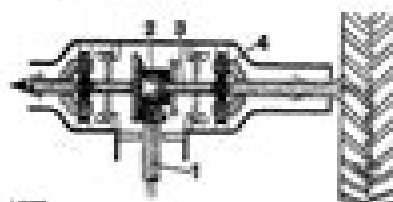
In doing so, the speed is reduced and torque increased, while power is transmitted at right angles.

When the tractor is moving straight ahead (a, Fig. 7), ring gear (2), bevel gears (3) of final drives and tractor turn at same rate (b, Fig. 7), the inner final drive bevel gear is partly or fully locked. During one revolution of ring gear, the outer bevel gear makes two revolutions. One with ring gear and another as bevel pinions "walk around" other bevel gear (see b, Fig. 7).

Final Drive Assemblies

The two final drive assemblies are the final components of the complete power train.

The reduction of engine speed through various phases of transmission and differential is again reduced in the final drives, and at the same time with an increase in torque. The power is directed straight from the rear axle to the drive wheels.

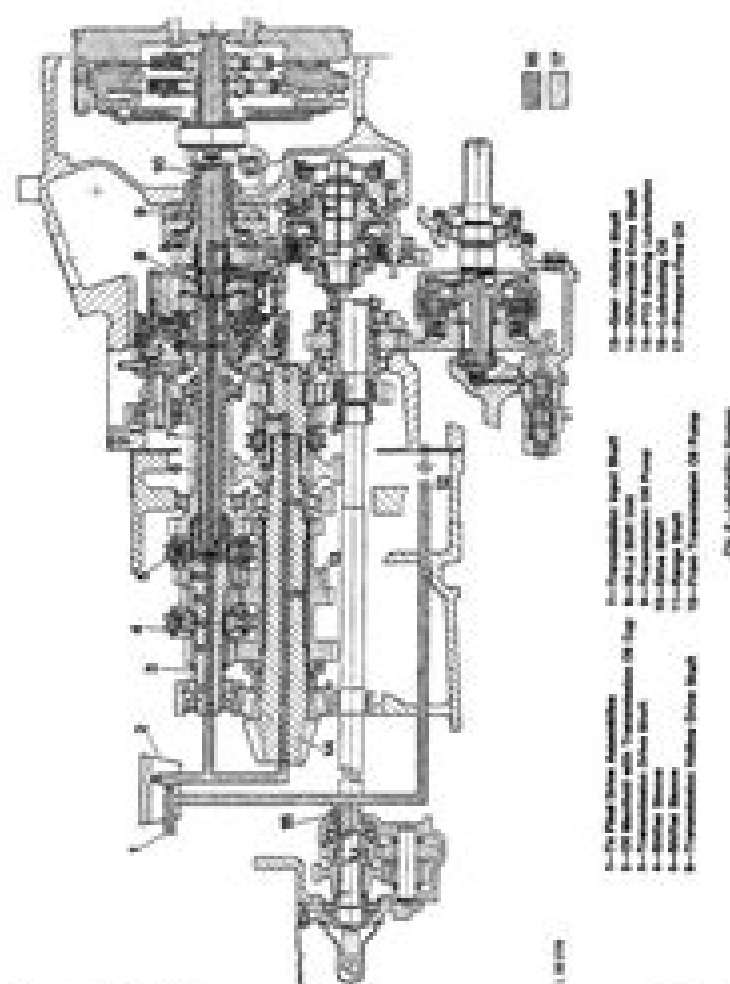


- 1-Differential Drive Shaft
2-Differential Ring Gear
3-Final Drive Shaft
4-Final Drive Pinion
5-Final Drive Gear

Fig. 8 - Final Drive

The final drive shaft (3, Fig. 8), driven from differential (2), engages in either and as sun gear in the planetary drive. The planet pinions engage in the drive shaft (sun pinion) and must "walk around" the ring gear. The planet pinion carrier is forced to rotate in the same direction as the sun gear. By this means, engine power is delivered to the drive wheels at reduced speed but with increased torque.

LUBRICATING SYSTEM



- 1-Oil Pump
2-Filter
3-Oil Gallery
4-Transmission Oil Pump
5-Transmission Oil Pump
6-Transmission Oil Pump
7-Transmission Oil Pump
8-Transmission Oil Pump
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100-Transmission Oil Pump

Fig. 9 - Lubricating System

2940 John Deere Tractor Service Manual

Chao Zhang



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web feb 21 2015 circuit description of automatic voltage stabilizer the power supply to the circuit is given from the secondary coil of transformer x 2 as the voltage between two tappings is 20v it is directly rectified using a bridge rectifier using diode d 1 through d 4