

HYDROSTATIC FRONT WHEEL DRIVE FOR TRACTORS 2020, 2120, 3120



JOHN DEERE

OPERATORS MANUAL HYDROSTATIC FRONT WHEEL DRIVE FOR TRACTORS 2020, 2120, 3120

OML27232 (01JAN72) English

OML27232 A2 (01JAN72)
USE WITH OML25199
OML25883
OML25968

LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

You are now the owner of a robust, highly efficient machine. Your reward for carrying out the maintenance instructions thoroughly and carefully will be years of dependable service.

Engaging the HFWD while working in difficult soil conditions provides a considerable traction boost and allows field-work to be completed which would have been impossible with a standard drive machine.

The hydrostatic front wheel drive is controlled by two levers handily located at the right-hand side of the dashboard. One lever is for engaging and disengaging the drive, the other is for switching to "working torque" or "additional torque".

In "working torque" position, a maximum speed of 10 mph (16 km/h) can be obtained and in "additional torque" position 5 mph (8 km/h). Both levers can be shifted on the go and under full load.

Before operating the HFWD, please study this manual.

ADVANTAGES OF HYDROSTATIC FRONT WHEEL DRIVE

- Additional two-stage traction!
- Tight turning radius – giving outstanding maneuverability!
- Safe finger-tip control – Can be shifted under load!
- High front axle ground clearance!
- Adjustable front wheel tread by means of telescopic axle center!



CAUTION! With clutch pedal fully depressed, HFWD is automatically disconnected, However, the "On-Off" lever remains in engaged position.



CAUTION! Disconnect front wheel drive when driving downhill.



When dismounting from tractor, move "On-Off" lever into "Off" position and strictly observe the following parking instructions.



On all tractors equipped with a handbrake, apply handbrake firmly and move a shift lever into neutral position.



On 2020 and 2120 tractors equipped with parking lock, engage a gear and move range lever into parking position.



On 3120 tractor equipped with parking lock, move range lever into neutral position and gear shift lever into parking position.

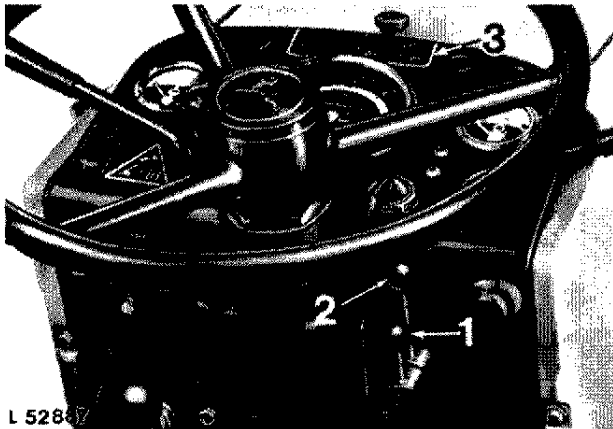


OPERATION

Engaging the Hydrostatic Front Wheel Drive (HFWD)

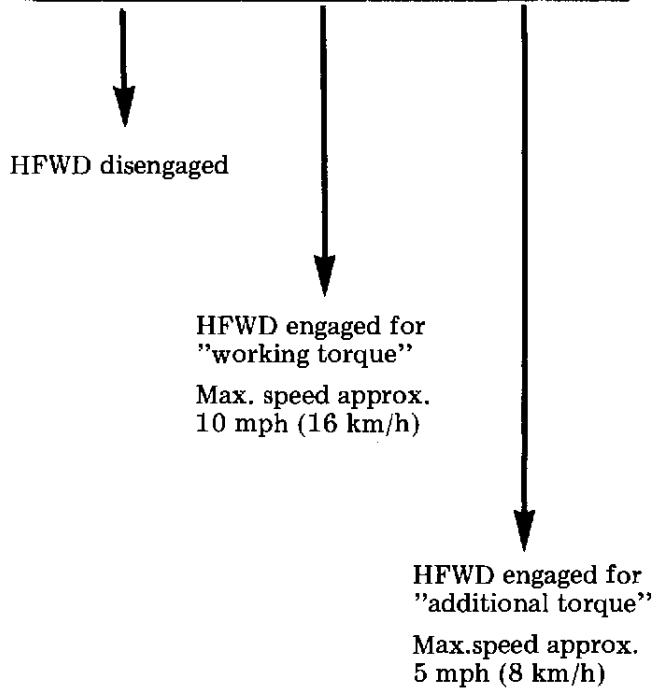
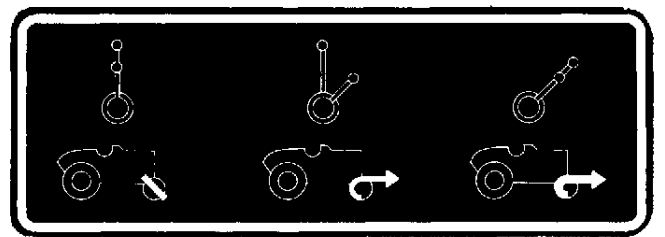
The hydrostatic front wheel drive can be engaged and disengaged in conjunction with ranges I, II and reverse, during operation and under full load. It can be operated for both short or longer periods of time.

Apply front wheel drive when traction of rear wheels is reduced because of slippage when operating under difficult soil conditions. It is advisable to disengage the front wheel drive when conditions improve and the necessary traction from the rear wheels is restored.



- 1 = "On" – "Off" lever
- 2 = Torque lever
- 3 = Decal showing lever positions

Lever Positions



<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>



Suggest:

If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

Operation

When HFWD is engaged, the torque lever remains in "working torque" position. In this position there is a differential-lock action on the front wheels which prevent the usual loss of traction when one wheel is slipping. This locking action automatically discontinues when cornering, so ensuring there is no interference while the tractor is being steered. For this reason the position "working torque" should be chosen for the majority of operations requiring HFWD.

If in particularly difficult soil conditions further wheel slippage occurs though "working torque" is engaged, place lever in "additional torque" position. In this position maximum torque of front wheel is doubled. However, there is no differential-lock action on the front wheels.

When tractor is driven at a speed greater than approx. 10 mph (16 km/h), HFWD is automatically shut-off and the "On-Off" lever returns to the "Off" position.

When tractor is driven at a speed greater than approx. 5 mph (8 km/h), torque lever automatically returns to "working torque" position. This can also occur in difficult soil conditions when "slipping" front wheels attain a speed of approx. 5 mph (8 km/h).

The HFWD will disengage automatically when clutch is depressed or if one of the transmission shift levers is placed in neutral. In this case the "On-Off" lever remains in "On" position. The HFWD will function again as soon as transmission shift lever is reengaged and the clutch pedal released.

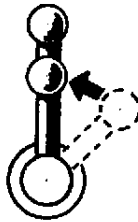
Lever Positions



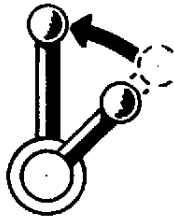
"Working Torque"



"Additional Torque"



"Off"



"Working Torque"