John Deere Mechanical Front Wheel Drive for Tractors 1030, 1130, 1630, 1830 and 2030

JOHN DEERE

OPERATORS MANUAL

John Deere Mechanical Front Wheel Drive for
Tractors 1030, 1130, 1630, 1830 and 2030

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Use with OML31450 (1030, 1130, 1630) OML31484 (1830, 2030)

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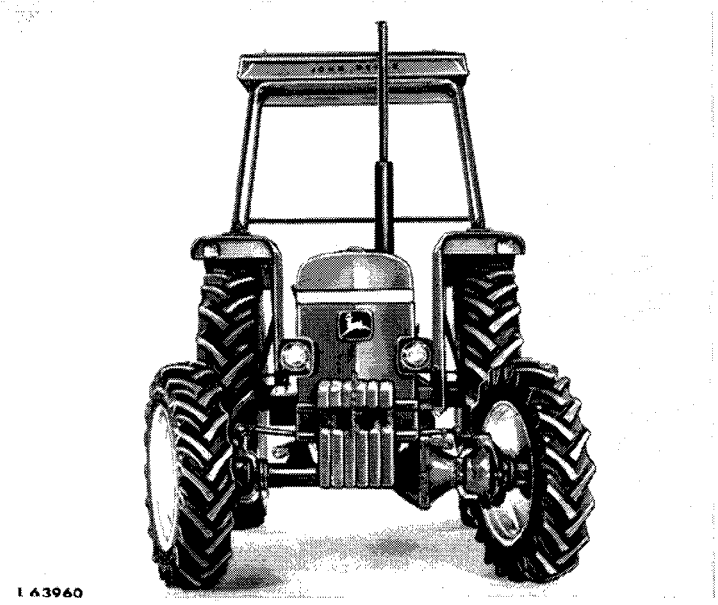
To the Purchaser

Model 1030, 1130, 1630, 1830 and 2030 tractors may be equipped with a mechanical front wheel drive.

This front wheel drive enables you to operate your tractor in very difficult conditions which would make it impossible to work with a standard rear wheel drive tractor.

The front wheel drive is operated by a tumbler switch handily located on the instrument panel.

Before operating your front wheel drive tractor, please study these instructions.



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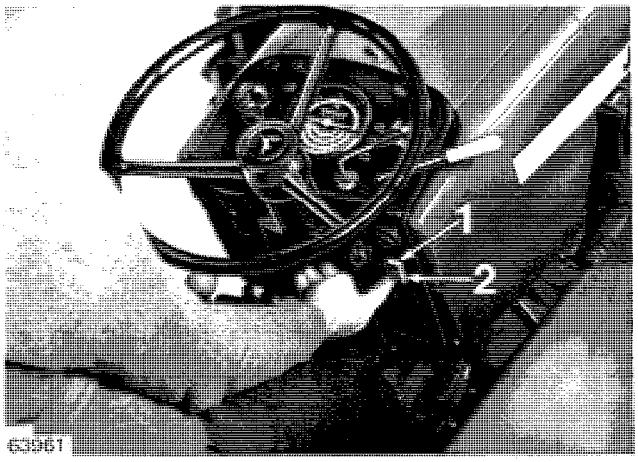
Operation

ENGAGING THE MECHANICAL FRONT WHEEL DRIVE

The mechanical front wheel drive can be engaged in all gears (forward and reverse) during operation and under full load.

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 ground conditions improve and the necessary traction from the rear wheels is restored.

Tumbler Switch



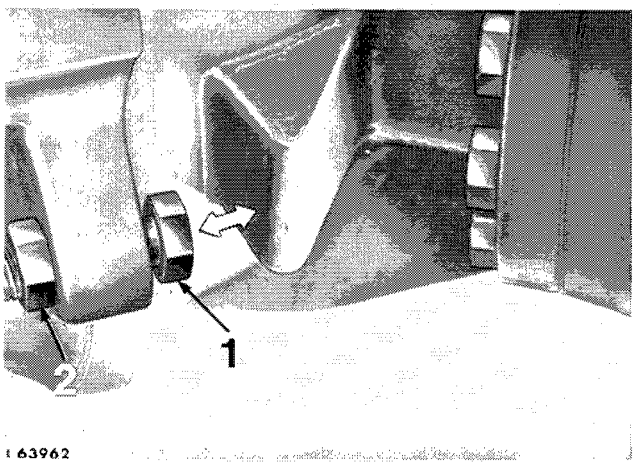
1 Front wheel drive disengaged
2 Front wheel drive engaged

Applying finger pressure to upper half of tumbler switch disengages the front wheel drive. Applying finger pressure to lower half of tumber switch engages front wheel drive.

NOTE: The tumbler switch is located on top of instrument panel on tractors equipped with an operator's cab.

FRONT WHEEL STEERING ANGLE

Steering angle of front wheels is 40°. It is adjustable by means of the adjusting screw and secured by the lock nut.



1 Steering angle adjusting screw
2 Lock nut

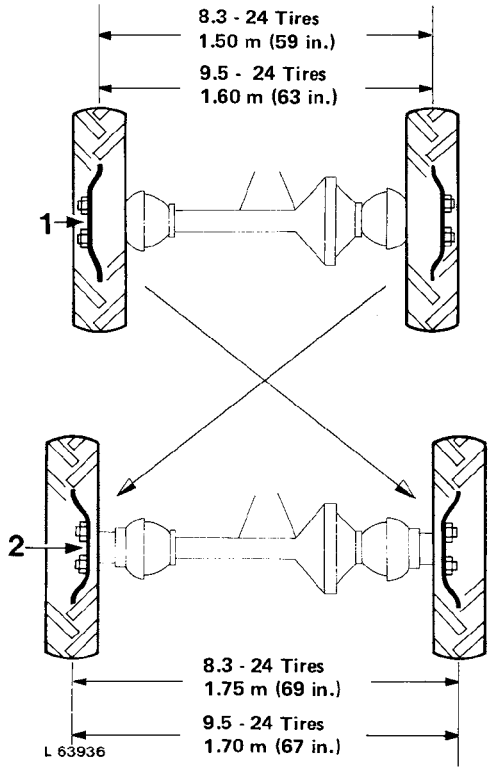
The steering angle must not exceed 40°. Check whether with full left-hand steering lock and oscillating front axle, there is clearance between tire tread and propellor shaft.

NOTE: If the tractor is equipped with front wheel fenders these must be removed when installing a front end loader.

ADJUSTING FRONT WHEEL TREAD

By reversing the complete front wheel and installing on opposite side of tractor two different wheel treads can be obtained. These are obtained by means of the cupped shape wheel disk. The cupped wheel disk facing outward gives the narrow tread and when facing inward the wider tread (see illustration below).

The arrow on the tire sidewall must point in direction of forward travel.



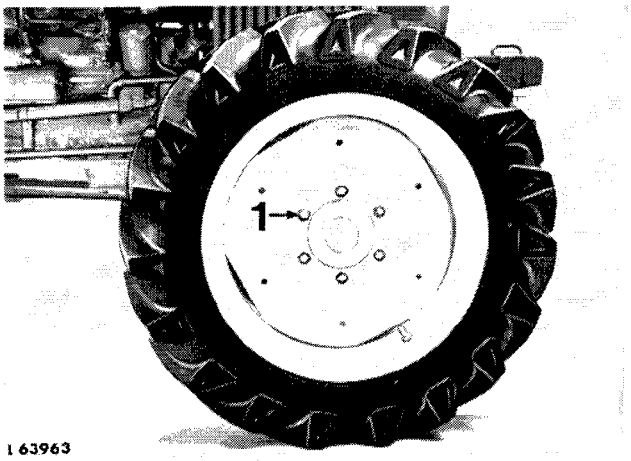
1 Cupped wheel disk facing outward gives the following treads:

With tires	8.3 - 24	1.50 m (59 in.)
	9.5 - 24	1.60 m (63 in.)

2 Cupped wheel disk facing inward gives the following treads:

With tires	8.3 - 24	1.75 m (69 in.)
	9.5 - 24	1.70 m (67 in.)

FRONT WHEEL ATTACHING CAP SCREWS



1 After having adjusted front wheel tread tighten front wheel attaching cap screw ball nuts to 320 Nm (32 mkp - 240 ft-lb) torque.

IMPORTANT: After the first 4 hours and 8 hours of operation retighten all front wheel ball nuts. Check tightness of these ball nuts frequently during the first 100 hours of operation. Recommended torque is 320 Nm (32 mkp = 240 ft-lb).

TIRES

Permissable tire combinations are given in the Specifications and must be strictly adhered to. Should front tire wear be far more excessive in comparison with rear tires (tire ratio disturbed), then replace front tires.

Tire pressure should be adapted according to operating conditions. We recommend you approach your JOHN DEERE dealer or tire company for advice.

The following are the minimum and maximum recommended tire pressures:

Tires	Pressure
8.3 - 24	0.8 to 2.2 bar (11 to 31 psi)
9.5 - 24	0.8 to 2.2 bar (11 to 31 psi)

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