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Electrical System

The tractor must have a 12 volt DC electrical system with a 7-pin connector socket for safety lighting and to power the PTO pump cooling fan (if equipped). A 9-pin implement connector is provided for planting system monitoring and control. A Farming System harness is required to integrate your tractor with the planting system; see Chapter 18.

Tractor Drawbar Requirements

The tractor must be equipped with a drawbar hammerstrap and a drawbar that can be locked in a stationary position. Front end weights, wheel weights or liquid ballast may be required on some tractors to handle the road transport tongue load. Tractor drawbar vertical load requirements:

Planter Type	Bulk Seed Hopper
Minimum Configuration[a]	
24 Row 20	5790 lb (2626 Kg)
Maximum Configuration[b]	
24 Row 20	7125 lb (3232) Kg

a. Planter equipped with full seed hoppers (row unit or bulk) and full granular chemical hoppers. No fertilizer option or row tillage equipment.

b. This configuration represents the maximum possible static weight. Planter equipped with full seed hoppers (row unit or bulk) and full granular chemical hoppers, plus full liquid fertilizer tanks when planter installed. Also includes dual wheel, combination residue managers/coulters on all row units.

MX Magnum tractors used with 1200 Pivot-Transport planters require a heavy duty drawbar. 7100, 7200 and 8900 Series Magnums require a drawbar helper.

Wheel Tread

Adjust the tractor wheel tread as follows:

Row Spacing	Wheel Tread
20 inch (508 mm)	60 inch (1524 mm)

Tractor Ballast

Add front end weight for effective steering control when the planter is raised. The tractor must have gross weight greater than the gross weight of the planter. Refer to tractor operator's manual for proper ballast.

Planter Weight

Planter Type	With Bulk Hoppers	
	Empty Weight	Loaded Weight
24 Row 20	[a]22,388 lb (10155 Kg)	[a]27,188 lb (12332 Kg)
	[b]25,150 lb (11408 Kg)	[b]29,950 lb (13585 Kg)
	[c]25,486 lb (11,560 Kg)	[c]31,966 lb (14499 Kg)

a. Weights include all row units (24) with mini-hoppers, meter assemblies, bulk seed hoppers, markers and vacuum fan.

b. Weights include all row units (24) with mini-hoppers, meter assemblies, bulk seed hoppers, markers and vacuum fan WITH the liquid fertilizer option – distribution system and coulters. (Fertilizer tanks would be tractor-mounted and are not included in the weight.)

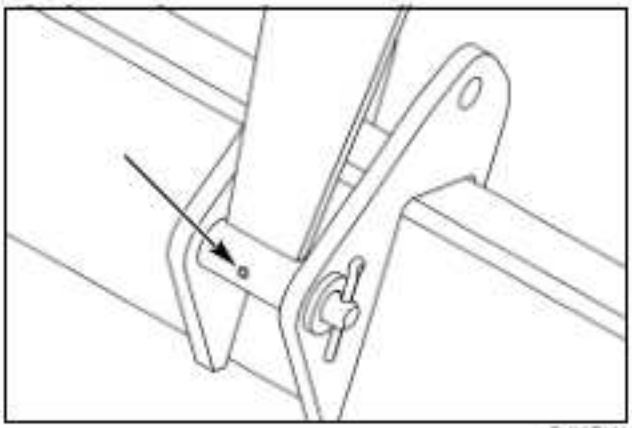
c. Weights include all row units (24) with mini-hoppers, meter assemblies, bulk seed hoppers, markers and vacuum fan WITH the liquid fertilizer option – distribution system and coulters – AND granular chemical hoppers.

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50 HOURS

Coulter Bar Pivot Lubrication (If equipped)

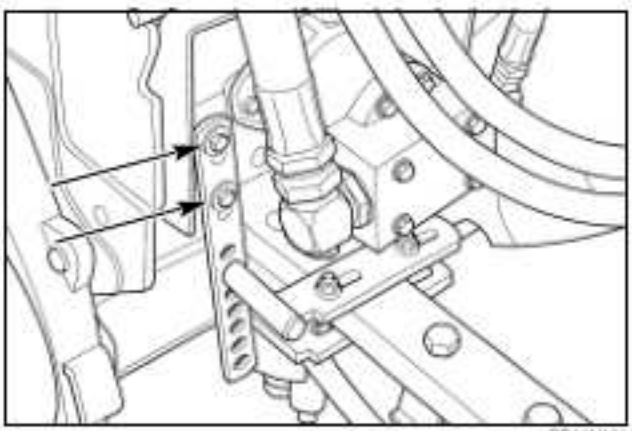
Apply Case 251H EP grease or NGLI No. 2 multi-purpose lithium grease to grease fittings on the coulter bar pivot for the liquid fertilizer coulters.



RH03E010

PTO Pump Bolt Wear (If equipped)

Check the adjusting bracket to pump plate mounting bolts for wear. Replace if worn.

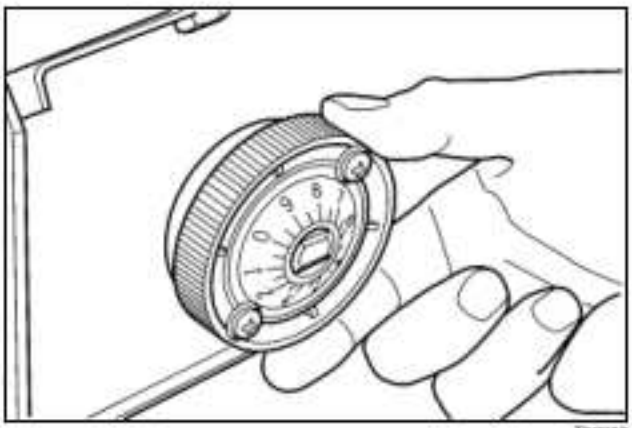


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Metering Valve Operation and Adjustment

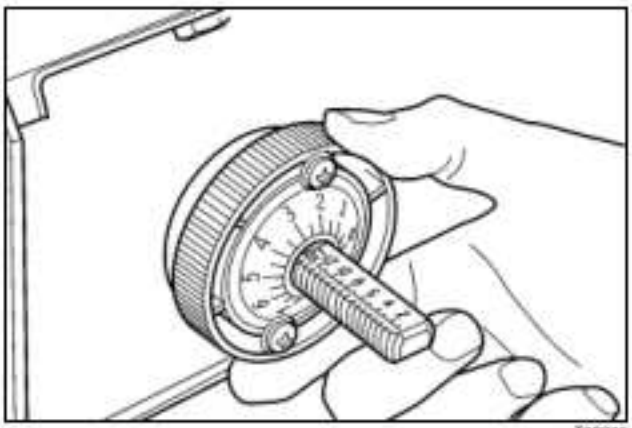
The metering valve(s) located on the bottom of each granular chemical hopper controls the chemical application rate. The rate of application can be adjusted with the control knob located on the rear panel.


T92283

Turn the control dial clockwise to INCREASE the application rate and counterclockwise to DECREASE the application rate. To turn the control OFF, turn the control as far as possible in EITHER direction.

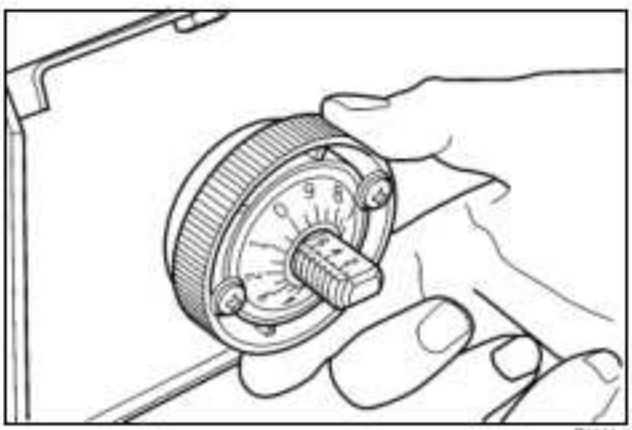
The metering valve has two setting indicators to adjust the application rate. The indicators are Gate Number and Dial Number. Both indicators are adjusted by turning the control knob located on the rear panel.

The metering gate has 12 graduations (or Gate Numbers). The Gate Numbers are shown on top of the threaded portion of the metering gate slide. One complete turn of the control knob equals one (1) Gate Number.


T92285

The control dial has 10 graduations which provides 10 settings within each Gate Number. This permits very precise adjustment of the application rate.

To adjust the application rate, turn the control knob to set the metering valve for the required Gate Number. Then turn the control knob to set the required Dial Number.


T92284

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