50 Series
Air Cart

Operator's Manual

87060578 4/05

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SPECIFICATIONS

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ALARM MESSAGES	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Work Switch Is Shorted to Ground	1. The Work Switch is shorted to ground (GND).	1. Inspect the Work Switch and the cables leading to it for damage. 2. To determine if the short is in the cable, disconnect the Work Switch and cycle the power at the console to see if the alarm re-occurs.
Tank<#> Air Sensor Communications Error	1. The air sensor on the indicated tank # has stopped communicating.	1. Inspect the air sensor and the cables leading to it for damage. 2. The problem may also be in the remote unit. Try swapping air sensors to determine if the problem moves with the sensor (you will have to cycle power on the console). Replace failed components.
Tank<#> Air Sensor Is Reporting a Fault	1. The air sensor on the indicated tank # is still communicating but is indicating an internal failure.	1. If the problem persists, replace the air sensor.
Tank<#> Air Sensor Is Shorted to Ground	1. The air sensor on the indicated tank # is shorted to ground (GND).	1. Inspect the air sensor and the cables leading to it for damage. 2. To determine if the short is in the cable, disconnect the air sensor and cycle the power at the console to see if the alarm re-occurs.
Tank<#> Meter Is Slow	1. The meter on the tank shown is turning slower than 1 RPM.	1. Inspect the meter and clutch.
Tank<#> Meter Is Still Turning!	1. The indicated meter is still turning but the Tank Switch and/or the Master Switch is OFF.	1. Inspect the Tank Switch and cable for the indicated meter.
Tank<#> Meter Sensor Is Shorted to Ground	1. The meter sensor on the indicated tank # is shorted to ground (GND).	1. Inspect the meter sensor and the cables leading to it for damage. 2. To determine if the short is in the cable, disconnect the meter sensor and cycle the power at the console to see if the alarm re-occurs.

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ENGINE DRIVE MAINTENANCE

Refer to your engine drive instruction manual for more information on engine maintenance.

1. Grease the cross shaft bearings, two locations (100 hours).
2. Adjust the fan belt tension.
   - Adjust the fan belt so that it will deflect 6 mm (1/4") when a 3kg (6 lb) force is applied.
3. Adjust the engine drive belt tension.
   - Set the spring length to 67mm (2 5/8").
   - Adjust the engine drive belt so it will deflect 10 mm (3/8") when a 9 kg (21 lb) force is applied to the center of the belt.
   - Less force may be required for previously used belts.

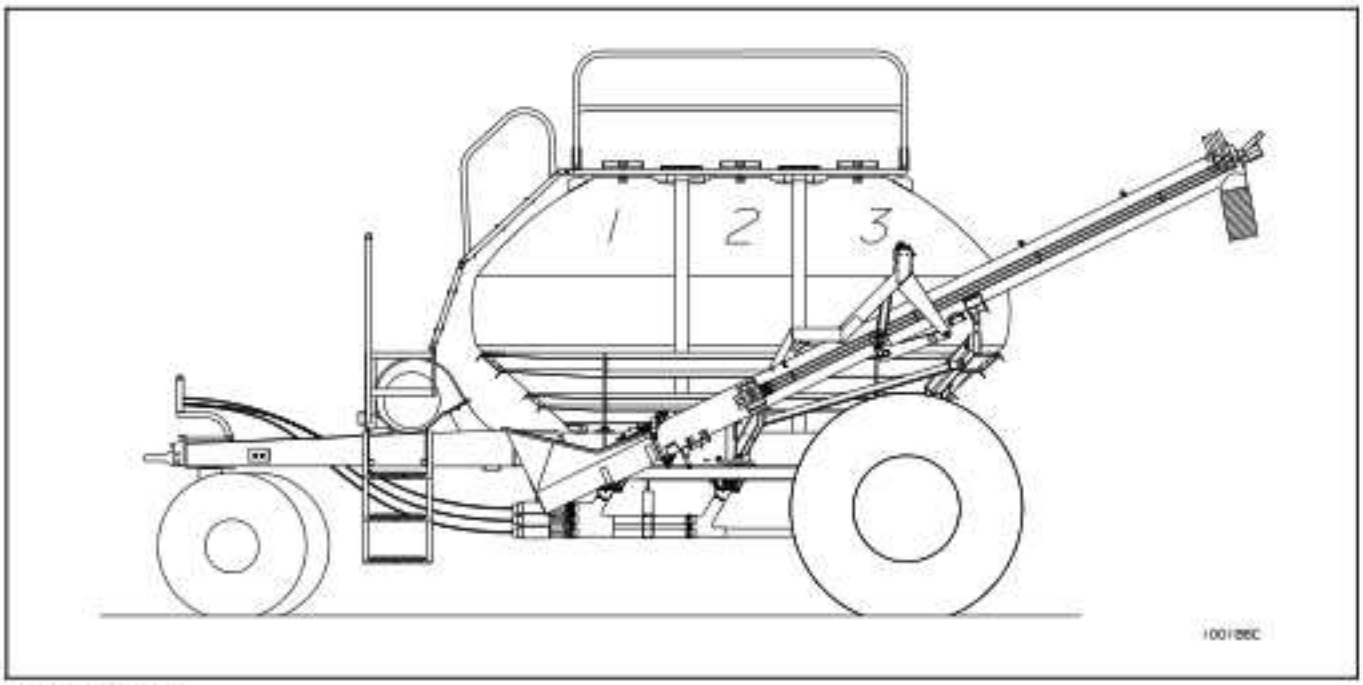
IMPORTANT: Do not over-tighten drive belts. Excessive tension will cause premature belt failure, fan bearing failure, and/or engine crankshaft bearing failure.

4. Check the oil level (10 hours).
5. Check the coolant level (10 hours).
6. Keep the radiator screen free of debris (10 hours).
7. Check the integrity of the intake hoses and clamps (10 hours).
8. Check the air filter dust indicator (10 hours).
9. Drain the water from the fuel filter (10 hours).
10. Service the air filter element (50 hours).
11. Change the engine oil and filter. (Initially every 50 hours and after that, regularly every 150 hours.)
12. Grease the cross-shaft bearings (100 hours).
13. Replace the fuel filter (500 hours).
14. Adjust the valve tappet clearance (1000 hours).

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TOW BEHIND AIR CARTS

TANK CAPACITIES



Tank Positions

Capacity by volume @ 100% full*

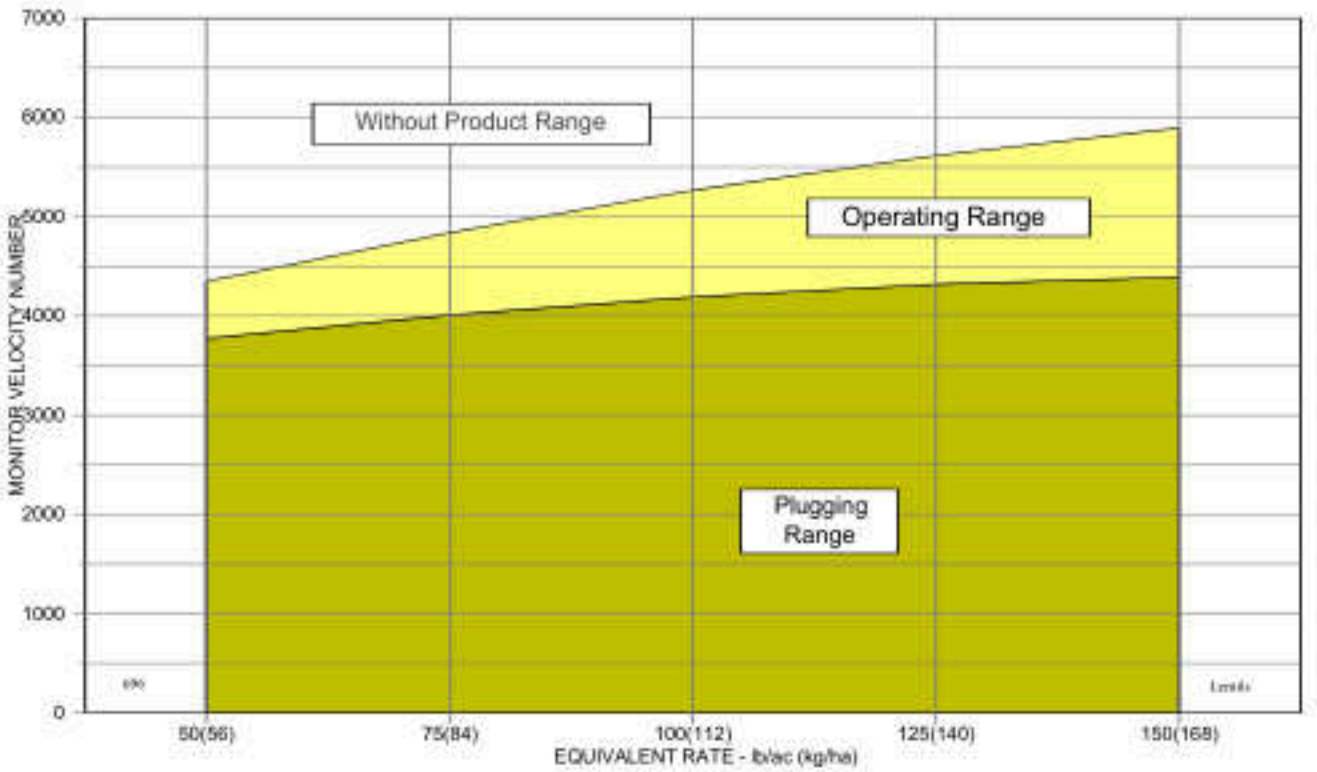
Total Volume L (Bushels**)	Tank 1 - Front Tank L (Bushels**)	Tank 2 - Center Tank L (Bushels**)	Tank 3 - Rear Tank L (Bushels**)
12,686 L (360 bu)	3,453 L (98 bu)	3,277 L (93 bu)	5,955 L (169 bu)
13,390 L (380 bu)	4,158 L (118 bu)	3,277 L (93 bu)	5,955 L (169 bu)
15,153 L (430 bu)	5,004 L (142 bu)	3,594 L (102 bu)	6,554 L (186 bu)

* 100% full is when completely filled with the Air Cart auger, directing product with the auger spout.
** Bushels are calculated at 0.800 bu/ft^3

DIMENSIONS

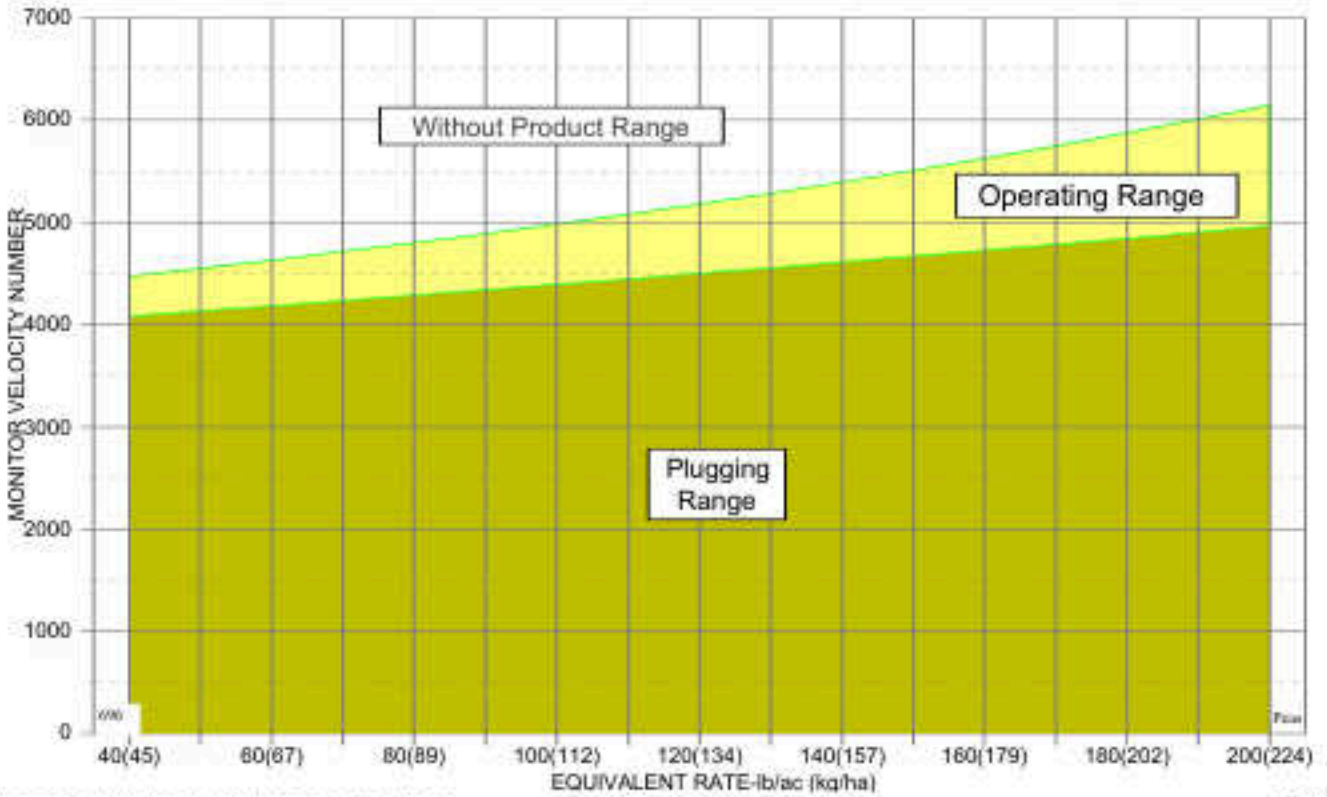
Overall width **1. Single rear tires** **2. Dual rear tires**	 1. 3.86 m (12' 8") 2. 4.93 m (16' 2")
Length (comes with auger)	8.61 m (28' 3")
Height (top hand rail) **1. 360 bu and 380 bu** **2. 430 bu**	 1. 4.55 m (14' 11") 2. 4.65 m (15' 3")
Ground clearance	64 cm (2'1")

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Suggested Velocity Numbers for Lentils

196107C



Suggested Velocity Numbers for Peas

196108C

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VARIABLE DRIVE MAINTENANCE

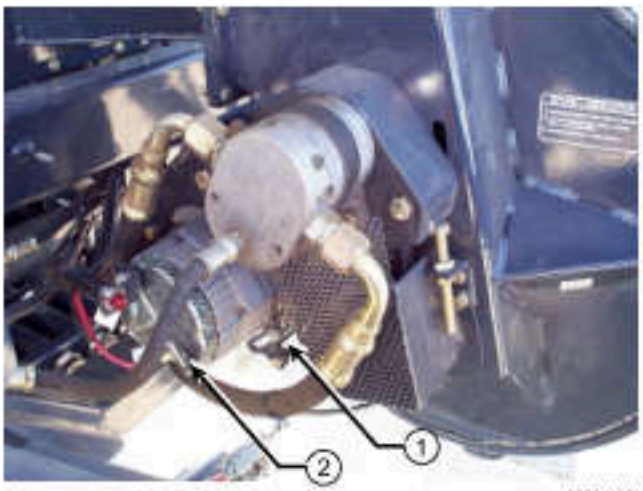
1. Check the alternator belt for proper tension and wear.

   To tighten the belt:

   Loosen the bolt (1).

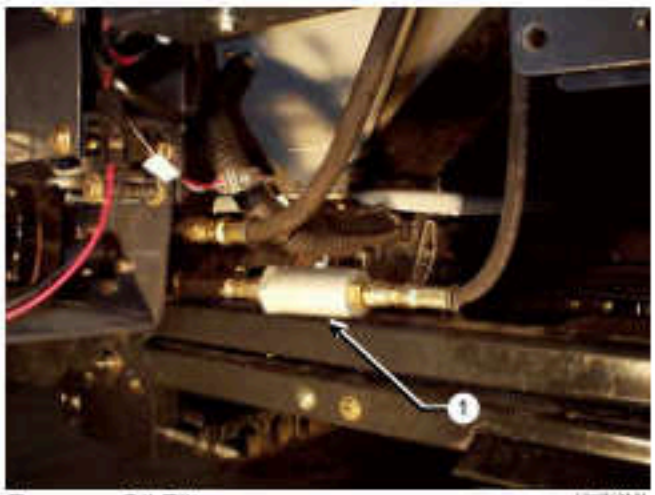
   Pull on the alternator (2) to tension belt to specification.

   Tighten the bolt (1).



Alternator Belt Adjustment

2. Clean the hydraulic oil filter. Filters (1) are mounted on the lines leading to the variable rate drives.



Remove Oil Filter

   Remove the filter from the housing.

   Clean the element (1) with solvent.

   Blow out with air at low pressure.

   Allow to dry.

   Replace the filter on the air cart.



Hydraulic Filter Element

NOTE: Clean the filter every 100 hours and replace every 300 hours or if damaged.

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