

The hydraulic drive motors mount to the meter housing and provide a direct drive of the meter shaft. The motor has a built-in speed sensor to provide accurate meter speed feedback to the electronics system.



Hydraulic Drive Motor

Blower

The air cart's blower system generates air pressure/flow to carry the seed or other input products through the system to the implement. The blower is driven by a hydraulic motor.

Two 3/4" hydraulic lines supply oil to the blower. A check valve is used on the return line to protect the system from running backwards. The hydraulic motor on the blower also has an internal check valve to prevent motor cavitation during shut down.

A third smaller (1/2") line connected to the blower motor is a case drain line. It is imperative that this is connected to a line directly to the tractor reservoir. Back pressure on this line will cause the shaft seal on the motor to fail. It is recommended that a female connector is used on this line at the tractor connection so that this line cannot accidentally be connected to pressure.

The only serviceable part on the blower is the shaft seal. This may be replaced if the motor leaks at the shaft. Do not disassemble the motor to replace the shaft seal. It is secured by a snap ring and can be removed with a seal pick.

A diverter valve above the blower selects either the fan or auxiliary (auger and/or winch) function. Push the knob in to run the blower. Pull the knob out to run the auger or winch.



The blower and associated hydraulics



Caution

Be sure that the case drain line on the blower motor is not connected to pressure. Damage to the shaft seal or motor will result.



Warning

Do not under any circumstances disassemble the motor. It is very difficult to assemble correctly and motor destruction will result from running an incorrectly assembled motor.

Note

Switch off fan to switch to auger.

Setting Blower Speed

The blower should be operated at as slow a speed as possible to prevent damage to seed. If operated too slowly, line blockage will occur. Typical blower speeds are between 3800 and 6000 RPM. Drill width, product, rate, humidity and other factors affect blower speed.

One method to determine blower RPM is to remove a final run from the seed boot or shoe. Hold the hose about 5 feet off of the ground pointing straight up. Turn product out of the meter with the blower running. The product coming from the hose should blow out of the hose about 8 inches into the air. Adjust blower RPM accordingly.

If you do not have a run blockage monitor, carefully watch to see that all runs are operating after changing blower speeds. To check runs, turn meter(s) with blower running and look to see that there is product at each ground opener.

Note

The number of outlets on the drill will directly affect the blower rpm. The more outlets in use, the higher the pressure required to maintain blower rpm. See your dealer for hydraulic adjustments to your tractor, if necessary.



Note

A diverter valve (2) above the blower selects fan or auxiliary (auger and/or winch) function. Push the knob in to run the blower. Pull the knob out to run the auger or winch.

Warning



Do not under any circumstances disassemble the motor. It is very difficult to assemble correctly and motor destruction will result from running an incorrectly assembled motor.

Tires and Rims

Inflate tires to the pressure indicated in the adjacent table. Torque lug nuts to 140 ft/lbs and retighten after the first 10 hours of operation.



Caution!

Maximum speed of the air system is 20 mph.



CAUTION!



TIRE PRESSURES

Tire Size	Tire Ply	Tire Pressure
18.4 X 26.0	10	26 (MAX)
23.1 X 26.0	8	16 (MAX)
23.1 X 26.0	10	20 (MAX)