

SEED METER AIR SYSTEM

AIR PRESSURE

General Information

FIG. 1: The air pressure gauge (1) is mounted onto the air duct.

Pressure is related to blower speed. Higher pressure is equal to faster speed.

NOTE: Avoid operating the tractor at full throttle when using a high seed disc air pressure setting and the seed drive is off. Overheating the hydraulic oil can result.

One to two blowers maintains the system air pressure to hold the seed in the seed discs. One hydraulic flow control valve per blower is mounted to the blower mount. The flow control valve regulates blower speeds while the air pressure gauge indicates the air pressure value in inches of water.

Turn adjustment knob clockwise to reduce air. Turn the knob counter clockwise to increase the air.

Correct air pressure is important:

- Too much pressure causes plant over-population.
- Too little pressure causes plant under-population.

FIG. 2: There are two types of flow control valves. One flow control valve is for planters with hydraulic drive and the other flow control valve is for planters with ground drive.

Flow control valve (1) for the hydraulic drive implements.

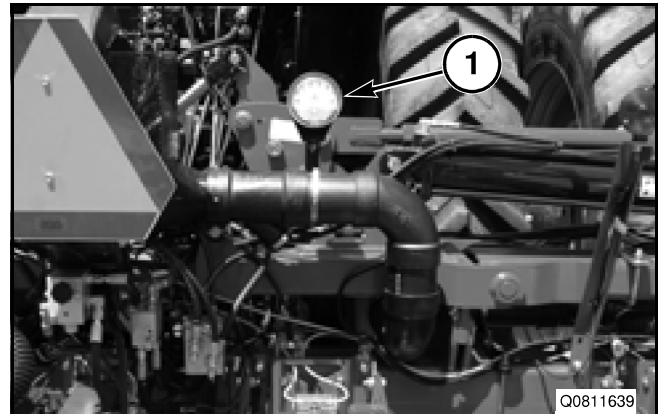


FIG. 1

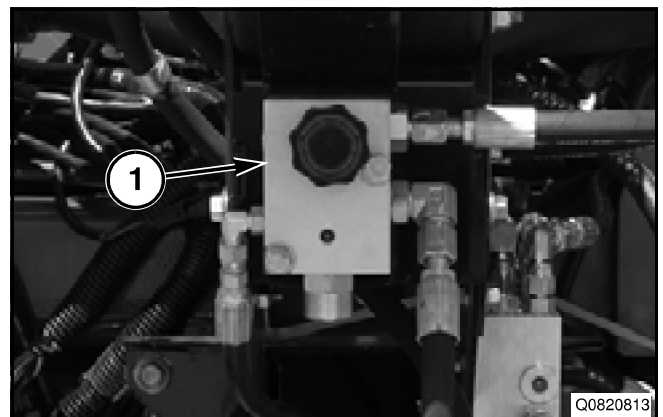


FIG. 2

FIG. 3: Flow control valve (1) for the ground drive implements.

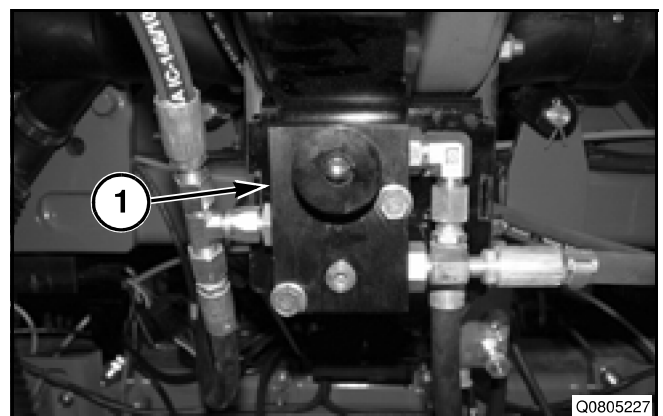


FIG. 3

Seed Meter Air System

AIR PRESSURE GAUGE

Calibration

FIG. 4: Check and adjust the air pressure gauge to the zero mark at the start of the season and periodically thereafter.

With the air system shut off, turn the adjustment screw at the bottom of the gauge face until the needle rests on zero.

NOTE: *The gauge must remain vertical to be calibrated correctly.*

IMPORTANT: *Because the blower speed increases as the hydraulic fluid reaches operating temperature, operate blower for 3 to 5 minutes at the rated speed, with the seed disc pockets filled, before making the final pressure adjustments.*

Turn the flow control knob clockwise to decrease the blower speed. Turn the flow control knob counterclockwise to increase blower speed.



CAUTION: Operate tractor engine at field operating engine speed for this adjustment procedure. Set tractor brakes and engage transmission park position. Stay clear of moving planter parts.

Lower the planter and use the Fill Disc command for a short distance to fill the seed disc pockets with seed.

Check the pressure and reset if necessary.

IMPORTANT: *Do not over speed blower.*

After planting for about 15 minutes, check the pressure again and adjust if necessary.

Check the pressure periodically during the day.

IMPORTANT: *Always check the actual seeds planted over a measured distance to determine the actual spacing and plant population.*



FIG. 4