FIELD ADJUSTMENTS

TURBO-MAX™
1800TM
2400TM
3000TM
3500TM
4000TM

ADJUSTMENTS BEFORE GOING TO THE FIELD

General Maintenance:

1. Refer to Operator's Manual for proper lubrication. Intervals and maintenance schedules.

2. Inspect the tire pressure on all tires:

TIRE PRESSURE		
Position:	Tire Size:	Pressure:
Center Transport	12.5L x 15 F-ply	90 PSI
Center Transport	12.5L x 16.5 Load G	105 PSI
Center Transport	380/55R x 16.5 Load F	73 PSI
Wings	11L x 15SL 12-ply	52 PSI
Wings	12.5L x 15 12-ply	55 PSI
Gauge Wheel	9.5L x 15 8-Ply	44 PSI

Note: Tire pressure is very important to ensure safe transport and level operation of the Turbo-Max.

General Maintenance:

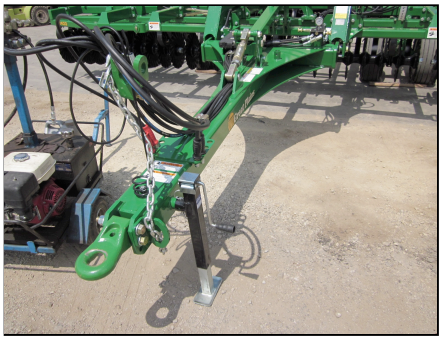
1. Be sure that correct hitch design and hitch pin are used when connecting the Turbo-Max to the tractor.

2. Always connect the safety equipment (lights and safety chain).

3. Connect hydraulic hoses to the tractor as follows:

HYDRAULIC HOOKUP			
Outlet:	System:	Flow (GPM):	Timer Setting:
1	Lift	12	Full Lift less ½ sec.
2	Fold	6	Constant Flow
3	Gang Angle	6	10 sec. max.

ADJUSTMENTS BEFORE GOING TO THE FIELD – continued



Tongue Turnbuckle

Leveling the Turbo-Max:

1. Remove transport locks and fold locks.
2. Unfold the unit.
3. Raise unit to rephase the lift circuit. Hold the lift circuit open for 30 sec. to ensure the air is purged from the system.
4. Lower the unit to within 2” on a level surface.
   a.) Level fore and aft by adjusting the tongue turn buckle (shorten to lower the front, lengthen to raise the front). Adjust so that the front and rear coulters are equal distance from the level surface.

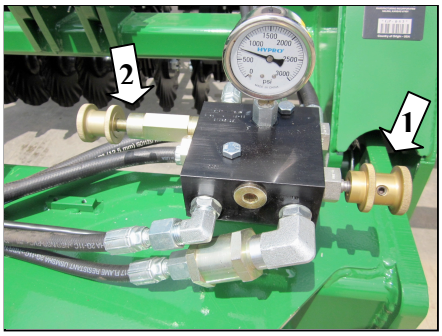
   b.) Level the wings by adjusting the gauge wheel turn buckles (shorten the turnbuckle to lower the wing). The wings should be level with the center section, with fold-hydraulics in float.

Wing Turnbuckle

Initial Turbo Max Settings:

Set Hydraulic Down Pressure (1800TM, 2400TM, 3000TM) –

Note: This setup procedure is for tractors with closed-center or pressure compensated flow hydraulic systems. Open center hydraulics are not supported. Adjust down pressure valve as shown on decal (located on front of left truss).

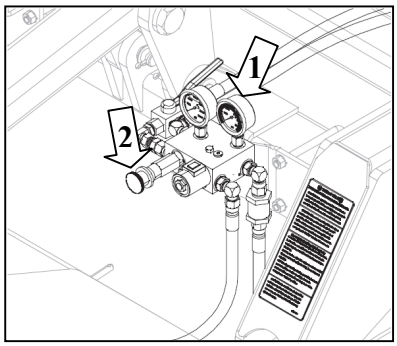


1800TM, 2400TM, 3000TM Down Pressure Valve

1. Adjust the bypass/pressure reducing valve by turning knob ①,clockwise all the way in and then backing out 1 full turn.
2. On tractor, adjust flow-control valve to low side of flow rate. Note: The faster the flow of oil through the system the greater potential for oil heating, premature wear or tractor damage.
3. Lock the fold hydraulic lever for continuous downward oil flow.
4. Adjust bypass/pressure reducing valve knob② on implement so the pressure gauge reads 1200 psi. Never exceed 1400 psi.
5. While watching pressure gauge, slowly open valve knob ① until gauge reads 1100 psi. Pressure might rise and then fall off as knob is opened. If pressure exceeds 1400 psi during this step, the tractor flow is too high, reduce tractor flow. Lock valve knob ① at 1100 psi.
6. Finally, adjust valve ② to the desired wing down pressure setting of 300 to 400 psi. Never exceed 700 psi.
7. In field operation, lock the fold hydraulic lever for continuous downward oil flow. If wings are running too high, increase pressure setting, knob ②, to level machine. If center is too high, decrease pressure setting with knob ② on valve.

Set Hydraulic Down Pressure (3500TM) –

Note: This setup procedure is for tractors with closed-center or pressure compensated flow hydraulic systems. Open center hydraulics are <u>not</u> <u>supported</u>. Adjust down pressure valve as shown on decal (located on front of left truss).

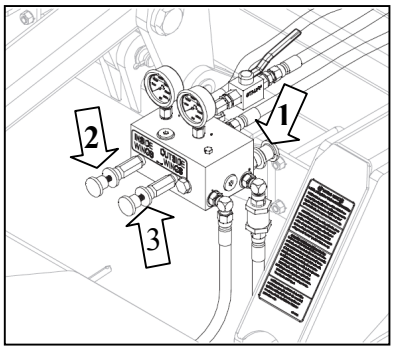


3500TM Down Pressure Valve

1. Engage the fold hydraulics (continuous flow) to unfold.
2. From the cab, adjust the flow so the needle on the bypass gauge ① is in the green zone 1000-1500 PSI.
3. At the valve, adjust the valve to set your initial down pressure (usually 300-300 PSI). Do not exceed 800 PSI.
4. In field operation, lock the fold hydraulic lever for continuous downward oil flow. If wings are running too high, increase pressure setting, knob ②, to level machine. If center is too high, decrease pressure setting with knob ② on valve.

Set Hydraulic Down Pressure (4000TM) –

Note: This setup procedure is for tractors with closed-center or pressure compensated flow hydraulic systems. Open center hydraulics are <u>not</u> <u>supported</u>. Adjust down pressure valve as shown on decal (located on front of left truss).



4000TM Down Pressure Valve

1. Close the rear valve ① (clockwise): open 1 turn.
2. Set tractor flow rate for fold system to SLOW.
3. Engage hydraulics (continuous flow) down.
4. Adjust front valves ② and ③ to obtain 1200 PSI each.
5. Adjust rear valve ① to 1100 PSI: lock valve.
6. Adjust front valves to desired down pressure 300-800 PSI inner wings-left valve ②, and 200-500 PSI outer wings-right valve ③.
7. In field operation, lock the fold hydraulic lever for continuous downward oil flow. If inner or outer wings are running too high, increase pressure setting on the appropriate valve,(knob ② or ③) to level machine. If the center is too high, decrease pressure setting with knob②, or ③ on valve.

<u>Setting Single Point Depth Control:</u>

1. Set the machine to the desired working depth and then set the depth stop at the front of the machine to ensure the unit will consistently return to that point.


Depth Stop Adjustment

Set Gang Angle:

Several conditions will dictate the gang angle setting that will accomplish the desired result:
1. Time of year.
2. How much residue is desired on the surface?
3. How much leveling is required?
4. Is this tillage operation the final pass before the planter?

Example of Suggested Settings:

1. Fall operation, cover residue and aggressively fill combine and grain cart tracks.
   Setting: 6° Gang Angle
   4" to 5" working depth
   6 – 8 mph
2. Final pass before planting level surface, level subsurface, for planter-ready seedbed.
   Setting:
   0° Gang Angle
   2" Working Depth
   7 – 10 mph

IN FIELD ADJUSTMENTS

1. Lower the unit and drive forward at intended operating speed.
2. Set single point depth stop to achieve desired depth.
3. Set gang angle for desired surface result.
4. Check fore and aft level – adjust turnbuckle on tongue if necessary to level.
5. Check side to side level – adjust hydraulic down pressure to level the unit.
   Note: With gang angle hydraulic down pressure may not be needed.
   If no hydraulic down pressure is needed, the Turbo-Max must be operated with the wing fold valve in FLOAT!!
6. Check for desired result of rolling spike and reel. The rolling spike is set at 22° and adjustment is normally not necessary. The reel spring pressure maybe adjusted if more clod sizing or firming is necessary. Turn adjustment nut clockwise to increase down pressure or counter-clockwise to reduce pressure.

Reel Adjust