

DARF

HAY RAKES

MODEL 1017



NIKKEL IRON WORKS, CORP.

QUICK START GUIDE

DARF MODEL 1017, 17 WHEEL RAKE - QUICK START GUIDE

Tractor Requirements:

- 60 H.P Minimum
- Ball Hitch size is 2 5/16"
- Flow Control
- 1 Hydraulic port required for Standard Model
- 2 Hydraulic ports required Fully Hydraulic Model
- Open Center or Closed Center Systems

1. Read the Operation Manual. Follow all safety instructions and procedures.

2. Check hydraulic oil level and condition in the tractor reservoir. Oil must be clean and reservoir full. 4 to 5 gallons is needed to fill the rake.

• **NOTE: Some tractors are equipped with smaller hydraulic reservoirs. This may create a heat issue. Additional cooling attachment may be required.**

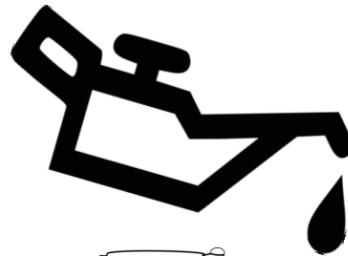
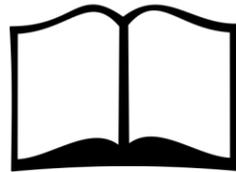
4. Hitch the rake to the tractor. Adjust hitch height to ensure that the leg struts are vertical and plumb.

5. On level ground, make final adjustment the overhead/leg strut to perpendicular by using the ratchet jack on the overhead front.

6. Connect the 2 hydraulic feed hoses to tractor ports.

7. Remove cylinder stops (2) and disconnect overhead safety chain.

8. Adjust the pressure in each tire TO 15 psi for field raking.



9. Lower each sides rake wheels to adjust each raking wheel (if needed) by turning the 3/4" nut at the end of the spring & rod assembly. Recommend that rake wheels should be set at 1/8" off the ground.

10. **If fully hydraulic**, connect monitor, 12 volt negative ground, (tractor is not running) and listen at the valve for a clicking noise while engaging each switch, verifying power to every cartridge.

11. **If fully hydraulic**, the valve is delivered for closed center hydraulics. Your tractor must match with closed center. If not, see your manual to change valve to operate with open center hydraulics.

12. **If fully hydraulic**, hydraulic oil flow must be regulated to between 4 gpm and 6 gpm.

13. Open rake overhead by slowly moving forward.

Do not open overhead while stationary!

14. Once fully open, with rake frame angles set, level left side raking frame by loosening U-bolts nuts (8) that attach the raking frame to the leg strut and rotating the turnbuckle on the frame brace. Tighten the 8 nuts and repeat on the right side.

15. Cycle all cylinders multiple times to ensure that no air is in the lines.

16. Raking speed is subject to field conditions and crop!

