

NEW HOLLAND

SERVICE MANUAL

18HB
21HB
25HB
30HB
36HB

NEW HOLLAND AGRICULTURE

SERVICE

84157369 5/09
Replaces 87519332

MidWestTech | New Holland 18HB, 21HB, 25HB, 30HB, 36HB Draper Header Service Manual | Publication 84157369

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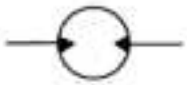
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REEL DRIVE

HYDRAULIC SCHEMATIC SYMBOLS

	Hydraulic motor – fixed displacement, reversible. ***NOTICE:*** *All our motors are reversible, but in instances where motor rotation is indicated with a single arrowhead, they are intended to run in one direction only due to unidirectional oil flow.*
	Flow control valve (Prince RDRS110 – 20 gallons per minute, with relief)
	Pressure gauge (0 – 4,000 psi)
	Oil flow (unidirectional)
	Case drain/bypass flow
	Junction/Intersection
	Motor rotation (unidirectional)

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TROUBLESHOOTING

TROUBLESHOOTING CHARTS

Use the following troubleshooting charts to identify and correct problems in reel lift systems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
REEL		
Reel will not hold height.	Leaking hose or fitting. Valve in windrower leaking.	Repair or replace. See Windrower's Repair Manual.
Reel will not hold level.	Leaking hose or fitting. Air in system. Faulty master cylinder. Leaking cylinder seal.	Repair or replace. Bleed slave cylinder. Repair or replace. Replace seal.
Reel raises or lowers erratically and/or reel will not raise.	Reel cylinders binding. Arms bent or binding. Low hydraulic oil. Hydraulic couplers don't match. Hydraulic couplers not engaged. Faulty hydraulics.	Replace cylinder. Repair or replace. See Windrower's Repair Manual. Install correct couplers. Re-couple properly. See Windrower's Repair Manual.
Reel raises slowly.	Elbow in master cylinder too tight.	Loosen fitting.
Damage to center of reel.	Reel set too low.	Adjust height.
Reel hitting at end.	Reel not centered.	Adjust centering.
Reel will not turn or turns erratically.	Flow control set too low. Low engine RPM. Faulty relief valve. Seized bearing(s). Faulty drive motor. Reel tied down. Hydraulic couplers not engaged.	Advance setting. Increase engine RPM. Clean or replace. Replace bearing(s). Replace motor. Release reel. Re-couple properly.
Reel speed cannot be adjusted. - Header driven reel.	Poor connection in electrical wires or cable. Defective reel speed motor. Faulty flow control.	Check connections and cable. Replace motor. Replace flow control valve.
Single Reel		
Reel does not raise level.	Air in system.	Bleed slave cylinder.
Right side goes up slow.	Air in system. Restricted hydraulic hose.	Bleed slave cylinder. Replace hose.
Right side will not raise.	Leaking hose, fitting, or cylinder.	Repair or replace.
Left side goes up slow.	Faulty piston seal.	Replace seals.
Left side will not raise.	Faulty cylinder. Faulty bypass port. Faulty piston seal.	Replace cylinder. Replace cylinder. Replace seals.

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