

NEW HOLLAND

750HD
770HD

SERVICE MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

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MidWestTech | New Holland 750HD, 770HD Disc Auger Header Service Manual | Publication 84207373

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SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

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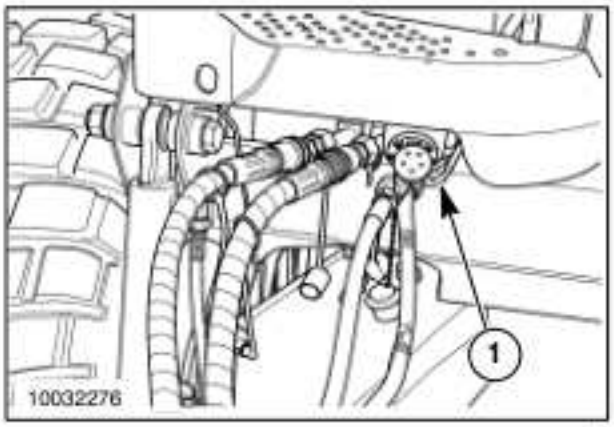
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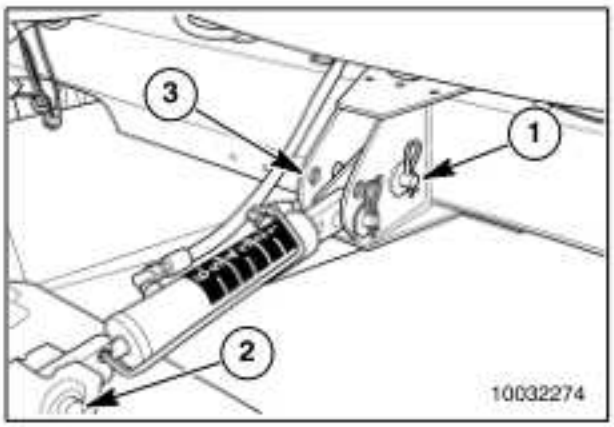
9. Disconnect the wire harness for the flashers and the header speed sensor, 1.



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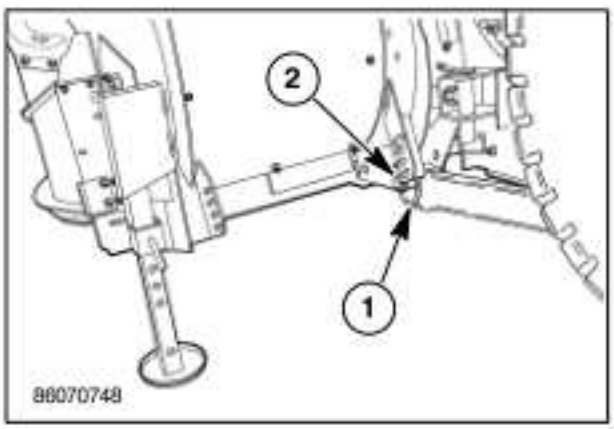
10. Remove the header tilt cylinder retaining pin, 1, on the windrower to allow free motion of the cylinder. Extend or retract the header tilt cylinder as required to relieve the pressure on pin, 2, connecting the cylinder to the header.
11. Secure the tilt cylinder in the raised position by inserting pin, 2, through the cylinder and mount at 3.

***IMPORTANT**: Do not use hole, 3, to store a pin while the header is attached. damage to the tilt cylinder and base unit will result.*



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12. Lower the lift arms as much as possible.
13. Back the tractor away from the header. Be sure the lifting cups, 1, directly below the lift bushings, 2, have dropped away.



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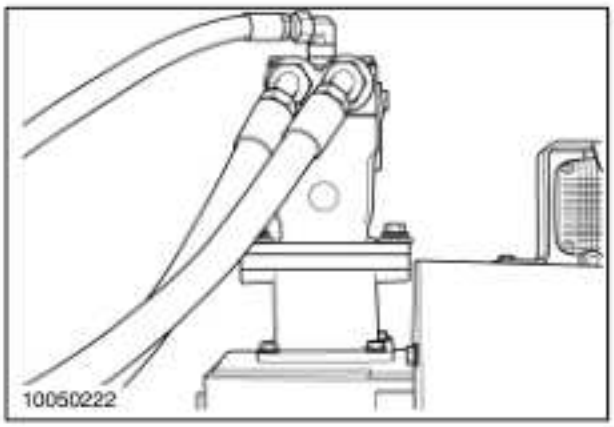
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OVERVIEW

The 750HD Discbine Disc Header uses two hydraulic driven motors. One motor turns the gearbox that provides turning power to the conditioner drive belt. The second motor drives the shaft to the disc head cutter bars.

NOTE: *Header motors Before PIN 639899 are not shown in specifications.*

Header motors After PIN 639899 to PIN 1130000 have limited repair parts availability.



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SPECIAL TOOLS

Lock	86503935

SPECIFICATIONS

FIXED DISPLACEMENT MOTORS - AFTER PIN 1130000

Maximum Displacement	44 cm3/r (2.65 in3/r)
Maximum Rated Speed	3300 rpm
Maximum rpm Speed	4100 rpm
Continuous Rated Pressure*	210 bar (3000 psi)
Maximum Rated Pressure**	345 bar (5000 psi)
Continuous Allowable Case Pressure	1.7 bar (24 psi)
Maximum Allowable Case Pressure	5.2 bar (75 psi)
Continuous Inlet Temperature	82°C (180°F)

* Continuous Rated Pressure - Motor may run uninterrupted at this pressure

** Maximum Rated Pressure - Highest allowable system pressure (High Pressure relief valve setting)

LUBRICATION

Lubricant	New Holland Ambra Multi G 134 Hydraulic Oil
Sealer	Loctite™ 598 Ultra Black - Oil Resistant
Grease	New Holland Ambra GR 9

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	CORRECTION
1. Motor turns while unloaded, but slows or stops when load is applied.	Scored Valve Plate.	Remove back plate and examine bronze surface of valve plate; if scored, replace valve plate.
	Scored or Worn Piston Shoes.	Disassemble motor; examine condition of shoes on pistons. Replace rotating kit assembly as a complete set. **Do Not Lap Pistons.**
	Low Pressure.	Check relief valve for proper pressure setting; adjust or replace relief valve.
2. Motor will not turn.	Severely scored internal parts.	Disassemble motor completely. Clean and inspect all parts. Replace all worn parts and flush hydraulic system.
3. Motor will not hold load when system is in neutral position.	No make up fluid from charge pump.	Check charge pressure.
	Scored valve plate or piston shoes.	Disassemble motor and examine valve plate and piston shoes, replace as needed.
4. Excessive case drain flow.	Excessive internal wear in motor.	Disassemble motor, inspect parts and replace as necessary. Case drain flow should not exceed 7.6 L/m (2 Gal/m) at full pressure.

* For further assistance; see Hydraulic section of this manual.

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