
Torque - Minimum tightening torques for normal assembly

Metric non-flanged hardware

Nom- inal			Lock nut class 8 with	Lock nut class 10 with
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Hydraulic systems - Hydraulic schematic frame 01 – Double knife, double swath, solid reel



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Hydraulic systems - Remove – Main manifold

⚠ WARNING

Escaping fluid!

Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and all components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.

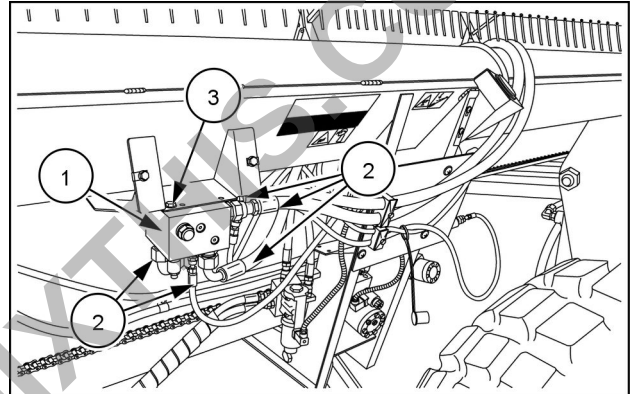
Failure to comply could result in death or serious injury.

W0178A

1. Make sure all hydraulic pressure is relieved before removing the main manifold **(1)**.
2. Loosen and remove the all hydraulic hoses **(2)** from the main manifold.

NOTE: Hoses on the back of the manifold are not shown.

3. Install plugs into the ports on the manifold and caps into the ends of the hydraulic hoses.
4. Loosen and remove the hardware **(3)** securing the main manifold to the header frame.
5. Remove the main manifold from the machine.

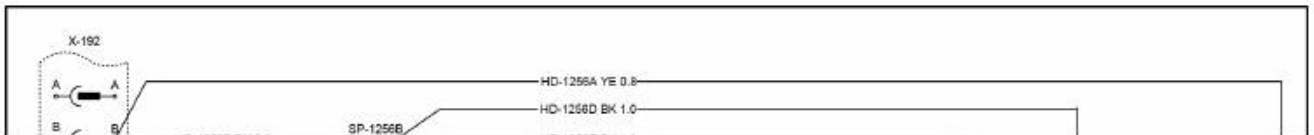


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Hydraulic systems - Troubleshooting

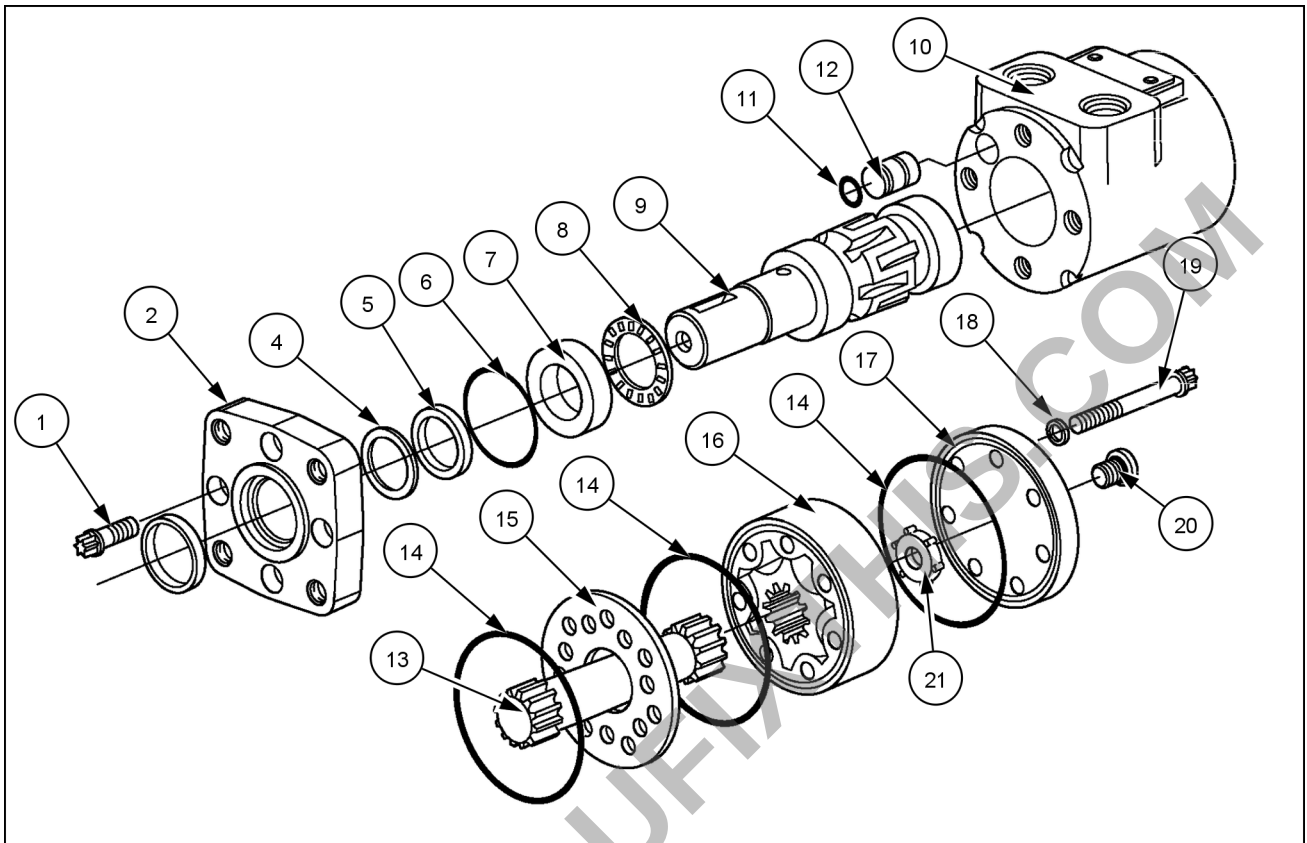
Problem	Possible Cause	Correction
Hydraulic oil is overheating.	System is opening a relief valve	Locate and inspect the relief valves in the main and secondary hydraulic manifolds.
	Faulty pump or motor.	Repair or replace pump or motor as required.
	Draper belt too tight or misaligned.	Adjust draper belt tension or alignment.
	Hydraulic couplers.	Check the couplers to the windrower and verify they are connected correctly.
	Case drain restriction.	Remove the orifice.
	Hydraulic oil viscosity is too light.	Refill with the correct grade NEW HOLLAND AMBRA MULTI G 134™ HYDRAULIC TRANSMISSION OIL.

Wire harnesses - Electrical schematic sheet 01 – Header



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Cutter control circuit - Exploded view – Knife drive – Eaton motor



Eaton motor – Exploded view

NOTE: This motor has a displacement of $100 \text{ cm}^3/\text{rev}$ ($6.1 \text{ in}^3/\text{rev}$).

- | | |
|---------------------------|-----------------------|
| (1) Bolt | (12) Plug |
| (2) Flange mounting plate | (13) Drive shaft |
| (3) Exclusion seal | (14) Seal |
| (4) Backup washer | (15) Spacer plate |
| (5) Pressure seal | (16) Gerotor |
| (6) Seal | (17) End cap |
| (7) Thrust bearing race | (18) Washer seal |
| (8) Thrust needle bearing | (19) Bolt |
| (9) Output shaft | (20) Plug with O-ring |
| (10) Housing | (21) Spacer |
| (11) O-ring | |

Contents

INTRODUCTION

Hydraulic systems.....	35
[35.000] Hydraulic systems.....	35.1
[35.518] Reel control system	35.2
[35.780] Feeder engagement system	35.3
[35.565] Cutter control circuit.....	35.4
[35.910] Head and header hydraulic drive	35.5
Electrical systems	55
[55.000] Electrical system	55.1
[55.100] Harnesses and connectors.....	55.2
[55.404] External lighting	55.3
[55.675] Reel speed and position control.....	55.4
[55.421] Feeding control system	55.5
[55.820] Chopping and cutting control systems	55.6
Attachments/Headers.....	58
[58.101] Attachment/Header reel.....	58.1
[58.110] Attachment/Header cutting mechanism	58.2
[58.900] Belt feeding	58.3

Safety rules

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

! DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

! WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

! CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

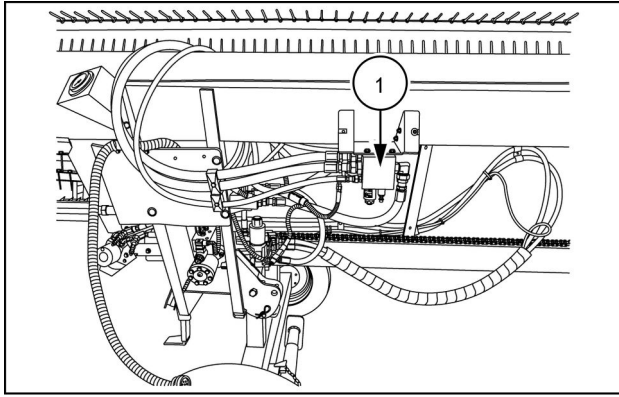
Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Contents

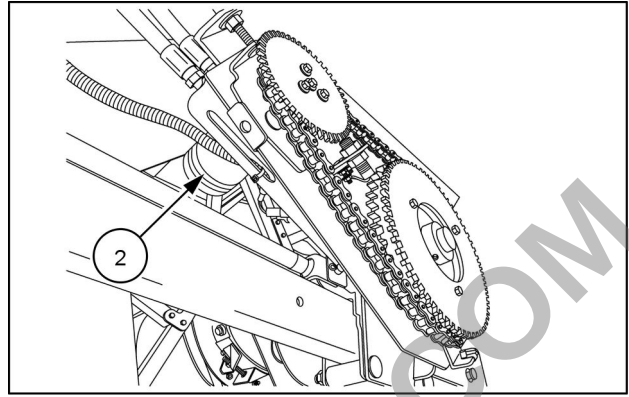
INTRODUCTION

Foreword - Important notice regarding equipment servicing	3
Safety rules	4
Safety rules	5
Safety rules - Ecology and the environment	11
Torque - Minimum tightening torques for normal assembly	12
Torque Standard torque data for hydraulics	17
Basic instructions - Shop and assembly	19
General specification	21
General specification	23
Product identification	24
Product identification - Machine orientation	25

Reel control system - Dynamic description – Reel drive circuit



NHIL14HT00296AA 1



NHIL14HT00299AA 2

Pressurized oil is supplied from the windrower quick couplers to port **IN** on the secondary manifold (1). Oil flows through an internal control valve in the secondary manifold to the outlet port **REEL**. Oil flows from the outlet port **REEL** to the right-hand reel motor (2). If the machine is equipped with a split reel, oil flows from the right-hand reel motor to the left-hand reel motor. The left-hand and right-hand reel motors are connected in series.

Oil flows from the right-hand reel motor (or left-hand reel motor, if the machine is equipped with a split reel) to the return port **RET B** on the secondary manifold. Return oil flows through the secondary manifold from return port **RET B** to return port **RET A**. Return oil then flows to the return quick coupler on the windrower. Oil is internally drained and exits through the flow-restricted drain port **DRAIN** on the secondary manifold.

Electrical system - Electrical test - How to check for an open circuit (continuity / resistance method)

NOTE: This method isolates the circuit completely.

An electrical circuit with no continuity and/or high resis-



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Contents

Attachments/Headers - 58

Attachment/Header reel - 101

DIAGNOSTIC

Attachment/Header reel	
Troubleshooting	3
Troubleshooting - Single reel	3
Troubleshooting - Double reel	3

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