5000HD Air Drill

Repair Manual

87545763 7/06
Replaces 87354053

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TABLE OF CONTENTS

Pages listed are a table of contents for that section

Section - Title ..... Page

1 - GENERAL INFORMATION 1-1
- General Service Information
- Important Information
- Service Tools
- Safety
- Units of Measure
- Bolt Torque Information
- Machine Specifications
- Paint Touch-up Procedure

2 - ADJUSTMENTS 2-1
- Air Drill Leveling
- Floating Hoe/Shank Adjustments
- Sweep Pitch Adjustments
- Trip Torque Specifications
- Setting the Depth Gauge
- Wing Lead Adjustment

3 - MECHANICAL SERVICE 3-1
- Troubleshooting Tables
- Servicing Safety Precautions
- General Operating Information
- Grease Locations
- Maintenance
- Tires
- Caster Wheels
- Caster Hub and Spindle Maintenance
- Walking Beam Replacement
- Caster Transport Lock Installation
- Pin Guides
- Depth Control Service
- Walking Beam Carrier Spool Replacement
- Auxiliary Tow Hitch

4 - HYDRAULICS 4-1
- Hydraulics
- Replace Seals in Cylinders
- Hydraulic Cylinders
- Depth Control
- Wing Lift Hydraulics

5 - ELECTRICAL 5-1
- Connector Service Kit
- Remote Switch Installation

6 - TRIPS, OPENERS, AND PRESS WHEEL SERVICE 6-1
- Service of Openers
- Press Wheels and Shanks
- Ground Openers and Seed Boots
- Troubleshooting Tables
- Trip Compressor Tool Kit
- Tension Link Kit - 550 Pound Trip
- Adjustment of Trip Assemblies
- Trip/Shank Shim Installation
- Heavy Duty Bearing Kits
- Press Wheel Removal
- Packer Wheel Rest Assembly
- Shank Spacing and Trip Release Pressure
- Sweep Pitch Adjustment
- Trip Torque Specifications

7 - AIR SYSTEM 7-1
- Troubleshooting Tables
- Hoses
- Theory of Operation - Air System
- Determining Adequate Carrying Velocities
- Header Assemblies
- Hose Holder Brackets and Distribution Clamps

8 - ENDMARKER SERVICE 8-1
- Endmarkers
- Endmarker Replacement
- Endmarker Hydraulics
- Endmarker Operation and Ajdustment

INDEX

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SECTION 1
GENERAL INFORMATION

CONTENTS OF THIS SECTION

Page

GENERAL SERVICE INFORMATION 1-3

IMPORTANT INFORMATION 1-4

SERVICE TOOLS 1-4

SAFETY 1-5
- General Safety Practices 1-6
- Servicing Safety Precautions 1-6
- Safety During Operation 1-7
- Air and Air Hoses 1-10
- Hydraulics and Hydraulic Leaks 1-10
- Shields 1-11
- Electrical 1-11
- Tires 1-11
- Safety During Transport 1-12
- Safety Decals 1-12
- Decal Locations 1-13
- Transport Lighting Assembly 1-14

UNITS OF MEASURE 1-16
- Abbreviations 1-16
- Conversion Chart 1-17

BOLT TORQUE INFORMATION 1-18

MACHINE SPECIFICATIONS 1-20
- Air Drill Dimensions 1-20
- Machine Composition 1-21
- Implement Weight 1-21
- Other Specifications 1-24

PAINT TOUCH-UP PROCEDURE 1-25

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OTHER SPECIFICATIONS

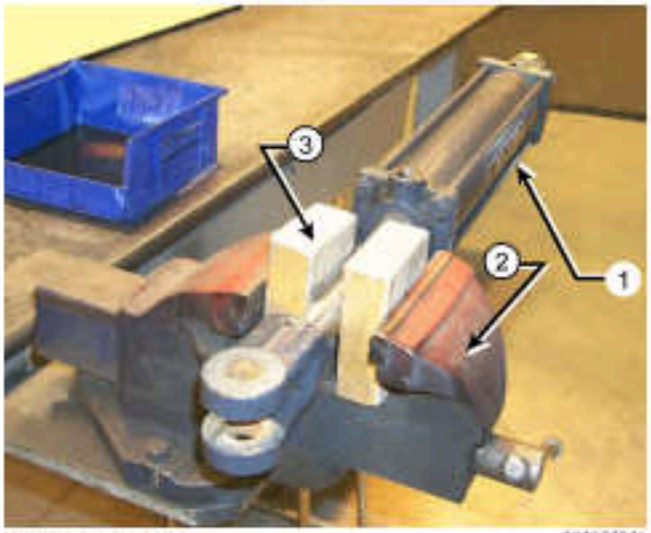
Spacing Configurations	
4-Row	18.3, 25.4, or 30.5 cm (7.2, 10, or 12 inch) spacings
3-Row	25.4 or 30.5 cm (10 or 12 inch) spacings
Frame/Ground Clearance	71.1 to 81.3 cm (28 to 32 inches) depending on openers
Cultivator-Style Trips	160 kg (350 lb) with 2.2 X 5.1 cm (7/8 X 2") shank, 4.4 cm (1 3/4") centers fit 47 degree sweeps 160 kg (350 lb) with 2.2 X 5.1 cm (7/8 X 2") shank, 5.7 cm (2 1/4") centers fit 50 degree sweeps 250 kg (550 lb) with 2.5 X 5.1 cm (1 X 2") shank, 4.8 cm (1 7/8") centers fit 47 degree sweeps 250 kg (550 lb) with 2.5 X 5.1 cm (1 X 2") shank, 5.7 cm (2 1/4") centers fit 50 degree sweeps
Adjustable Floating Hoe-Style Shank/Opener	1.9 X 5.1 cm (3/4 X 2") edge-on shank at bottom special openers required four pressure settings, ranging from 27.2 to 104.3 kg (60 to 230 lb) 5.7 cm (2 1/4") hole centers
Press Wheels	Steel 8.9 X 55.9 cm (3 1/2 X 22") 11.4 X 55.9 cm (4 1/2 X 22") Rubber 7.6 X 55.9 cm (3 X 22") 10.2 X 55.9 cm (4 X 22") 14 X 55.9 cm (5 1/2 X 22")
Options	shim kits to lower shanks behind tractor wheels. single or dual endmarkers press wheel mud scrapers tow hitch for NH_3 cart bolt-on caps for steel press wheels 2-bar harrow for 3-row configuration 1-bar harrow for 4-row configuration dual offset caster for the center section of 8.2 and 10.1 m (27 and 33 ft) models dual offset caster for the wing section (all models)

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PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Lines are plugged - between manifold and headers.	1. Not enough air velocity.	1. Adjust air dampers or fan.
	2. Too much air is escaping at the discharge seals.	2. Adjust the intermediate manifold.
	3. Hose routing is not direct enough.	3. Re-route hoses for smoother flow (minimize corners). Refer to hose layouts.
	4. Unbalanced air flow (double shoot system).	4. Check house routing and adjust as required.
Lines are plugged - outside (longest) lines only.	1. Line length differences are too great.	1. Remove excess length, or add length to shortest lines.
	2. Hoses make too many sharp turns.	2. Reroute to minimize corners.
	3. Hoses attached to weak supply on manifold.	3. Connect longest hoses toward center of manifold.
	4. Unbalanced air flow (double shoot system).	4. Check house routing and adjust as required.
Final lines are plugged - just outside of headers.	1. Insufficient product velocity because lines are level or sloping upwards.	1. Hoses from header should slope downward.
Restriction in the header.	1. Product buildup.	1. Inspect frequently. Clean as required.
	2. Lumps lodged in the header.	2. Dislodge. Use clean product. Use debris screens.
	3. Header assembly inserts rotated.	3. Service and readjust the secondary header.
	4. Header air hoses incorrectly assembled.	4. Service and readjust the secondary header.
Insufficient air velocity.	1. Discharge is blocked.	1. Clear lines at the seed boot. Boots too restrictive.
Uneven product division.	1. Header ring loose or worn.	1. Service and readjust the secondary header.
	2. Riser tube not vertical.	2. Service and readjust the secondary header.
	3. Problems at air cart.	3. Inspect air cart meter roller and manifolds.

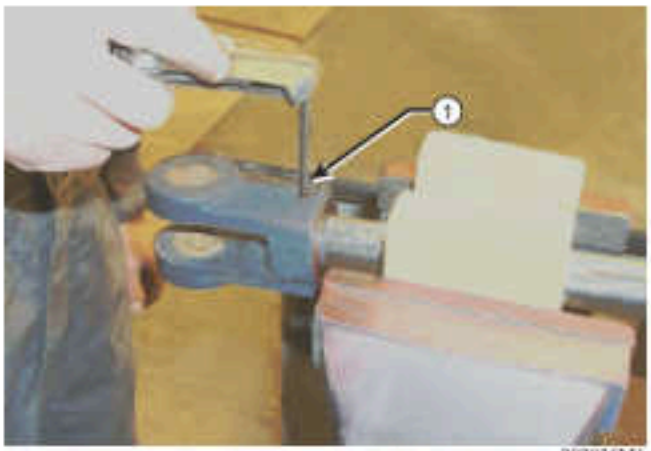
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2. Block the cylinder (1) in a vise (2) using wooden blocks (3) or other material to protect the cylinder rod from damage.



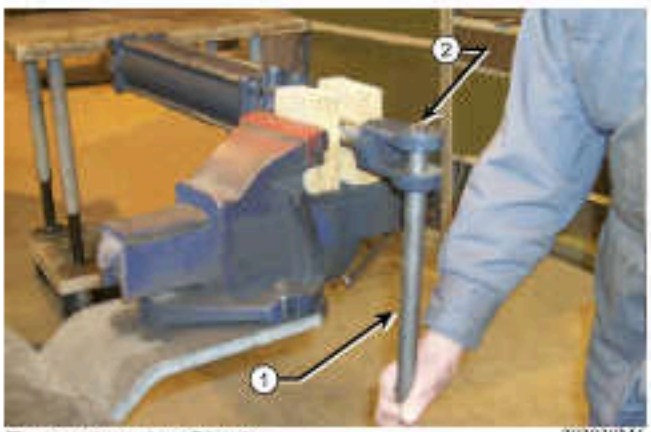
Cylinder in Vise 202035M1

3. Remove the clevis end (1) by loosening the set screw.



Loosening Clevis Set Screw 202036M1

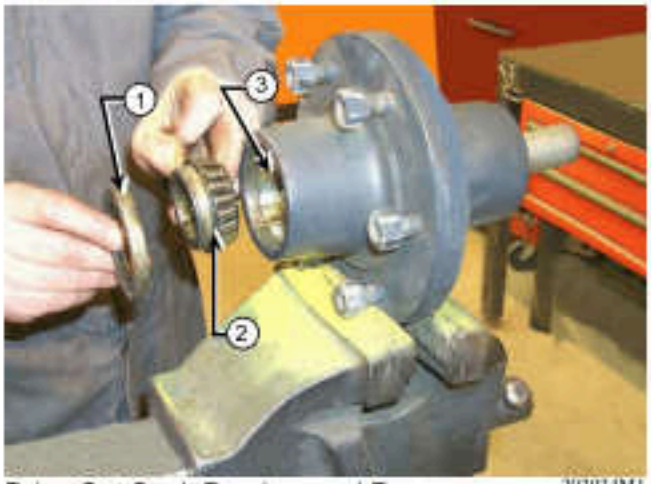
4. Use a rod (1) inserted in the clevis (2) to unscrew the clevis end off of the shaft.



Removing the Clevis 202039M1

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6. Remove the seal (1), bearing (2), and race (3).

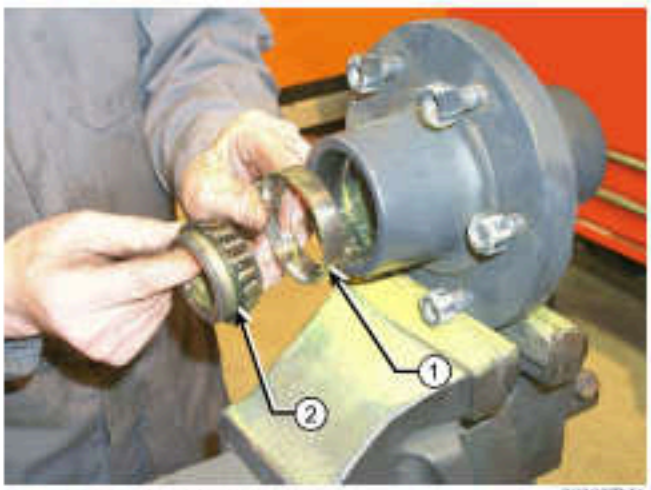


Drive Out Seal, Bearing, and Race 20D24M1

7. Re-pack the bearing. Use your thumb to work new grease into the bearing.


Repack the Bearing 20D26M1

8. Replace the race (1) and bearing (2).



Replacing Bearing and Race 20D27M1

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