

DCX101 Disc Mower-Conditioner

Repair Manual

87548193

Replaces 86630296

CASE *III*

DCX101 REPAIR MANUAL CONTENTS

- SECTION 00 - GENERAL INFORMATION**
- SECTION 31 - IMPLEMENT POWER TAKE-OFF (PTO)**
- SECTION 35 - HYDRAULIC SYSTEMS**
- SECTION 39 - FRAMES**
- SECTION 55 - ELECTRICAL SYSTEM**
- SECTION 58 - ATTACHMENTS / HEADERS**
- SECTION 88 - ACCESSORIES**
- SECTION 90 - SAFETY DECALS**

The sections used through out all Case IH product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books.

The sections listed above are the sections utilized for the DCX101 Disc Mower-Conditioner.

COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

CONTENTS

Section	Description	Page
	Foreword	2
	Precautionary Statements	3
	Safety	4
	Product Identification Number	6
	Manual Holder	6
	Hardware Torque Values	7
	Installation of Adjustable Fittings in Straight Thread O-Ring Bosses	10
	Standard Torque Data For Hydraulic Tubes and Fittings	10
	Pipe Thread Fitting Torque	11
	Installation of ORFS (O-Ring Flat Faced) Fittings	11
	Ecology and the Environment	12
	Universal Symbols	13
	Tractor Requirements	14
	Tractor Drawbar Dimensions	15
	Attaching the Mower-conditioner to the Tractor	16
	Jack Assembly	16
	Hydraulic Hoses	16
	Hydraulic Cylinders	17
	Connecting Hydraulic Hoses to the Tractor	17
	Bleeding Air from the Lift Cylinders	18
	Transporting the Mower-conditioner	19
	Slow-moving Vehicle Emblem	19
	Transporting on Highways	19
	Safety Chain	19
	Trailing Lights	20
	Towing with a Tractor	21
	Towing with a Truck	22
	Parking the Machine	23
	Storing the Mower-conditioner	23
	Specifications	24
	Special Tools	25

SECTION 00 - GENERAL INFORMATION

Chapter 2 - Adjustments

CONTENTS

Section	Description	Page
	Conditioning (Roll Pressure)	2
	Unplugging The Conditioner Rolls	2
	Roll Timing	3
	Rubber Rolls	4
	Steel Rolls	4
	Roll Gap	5
	Rubber Rolls	5
	Steel Rolls	6
	Conditioner Belt	6
	Cutter Bar Flotation	7
	Cutting Height	8

SECTION 00 - GENERAL INFORMATION

Chapter 3 - Lubrication

CONTENTS

Section	Description	Page
	Lubrication	2
	Recommended Lubricants	2
	Lubrication Schedule	3
	Grease Fittings	3
	Gearboxes	3
	PTO Slide Collar	4
	Weasler Primary PTO	4
	Every 50 Hours	5
	Bondioli Primary PTO	5
	Secondary PTO	6
	Front CV Joint	6
	Telescoping Section	7
	Rear CV Joint and Slip Clutch Assembly	7
	Roll Drive	8

SECTION 00 - GENERAL INFORMATION

Chapter 3 - Lubrication (Continued)

CONTENTS

Section	Description	Page
	Cutter Bar Drive Shaft	8
	Upper Roll Pivot Arms	8
	Wheel Arms and Header Lift Arms	8
	Tongue Pivot Pin	9
	Wheel Bearings	9
	Cutter Bar Mounting Bolts	9
	After First 50 Hours	10
	Step-up Gearbox	10
	Every 100 Hours	11
	Roll Pressure Crank	11
	Bevel Gearbox	11
	Every 200 Hours	13
	Roll Drive Gearbox	13
	Every 200 Hours	13
	Cutter Bar Modules	13
	Every 400 Hours	14
	Wheel Bearings	14

SECTION 00 - GENERAL INFORMATION

Chapter 4 - Troubleshooting

CONTENTS

Section	Description	Page
	Troubleshooting	2

SECTION 31 - IMPLEMENT POWER TAKE-OFF (PTO)

Chapter 1 - PTO

CONTENTS

Section	Description	Page
	Description of Operation	2
	Slide Lock - Disassembly	3
	Slide Lock - Assembly	3
	Drive Shaft Removal/Installation	4
	Primary PTO	4
	540 RPM PTO Units	4
	1000 RPM PTO Units	5
	Secondary PTO Assembly	6
	540 RPM PTOs	7
	Standard Drivelines Guards - Disassembly	7
	CV Drivelines Guards - Disassembly	7
	Driveline Guards - Inspection	8
	Standard Driveline Guards - Assembly	9
	Front Guard Assembly	10
	1000 RPM PTOs	11
	1000 RPM Assembly	12
	Secondary PTO Disassembly	15
	Secondary PTO Assembly	18
	U-joints - Disassembly	20
	U-joints - Inspection	21
	U-joints - Assembly	22
	Repair Time Schedule	23

SECTION 31 - IMPLEMENT POWER TAKE-OFF (PTO)

Chapter 2 - Slip Clutch

CONTENTS

Section	Description	Page
	Slip Clutch	2
	Slip Clutch - Removal	3
	Slip Clutch - Disassembly	3
	Slip Clutch - Inspection	4
	Slip Clutch - Assembly	5
	Slip Clutch - Installation	6
	Slip Clutch - Run In	7
	Serial Number HCA0006607 and Above	See Chapter 3

SECTION 31 - IMPLEMENT POWER TAKE-OFF (PTO)

Chapter 3 - Overrunning Clutch

CONTENTS

Section	Description	Page
	Overrunning Clutch	2
	Overrunning Clutch - Disassembly	2
	Overrunning Clutch - Inspection	3
	Overrunning Clutch - Assembly	4
	Serial Number HCA0006607 and Above	
	Slip with Overrunning Clutch	7
	Disassembly	7
	Assembly	11

SECTION 31 - IMPLEMENT POWER TAKE-OFF (PTO)

Chapter 4 - Step-up Gearbox

CONTENTS

Section	Description	Page
	Step-Up Gearbox	2
	To Convert Step-up Gearbox for Different PTO Speed	2
	Step-up Gearbox - Disassembly	5
	Step-up Gearbox - Assembly	8

SECTION 35 - HYDRAULIC SYSTEMS

Chapter 1 - Hydraulic Cylinders

CONTENTS

Section	Description	Page
	Hydraulic Diagram	3
	Bleeding Air from the Lift Cylinders	5
	Lift Cylinder Removal	6
	Master Cylinder	7
	Disassembly	7
	Inspection	7
	Assembly	8
	Slave Cylinder	9
	Disassembly	9
	Inspection	9
	Assembly	10
	Header Tilt Cylinder	11
	Removal	11
	Disassembly	11
	Inspection	12
	Assembly	12
	Swing Cylinder	13
	Disassembly	13
	Inspection	14
	Assembly	14

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SECTION 39 - FRAMES

Chapter 1 - Floatation Springs

CONTENTS

Section	Description	Page
	Adjustment	2
	Removal	3
	Installation	4
	Disassembly: Flotation Spring Wrench	5
	Disassembly	6
	Assembly	7

SECTION 55 - ELECTRICAL SYSTEM

Chapter 1 - Implement Lights

CONTENTS

Section	Description	Page
	Trailing Lights	2
	Installing the Wire Harness	2
	Installing the Lights	3
	Installing the Socket	5

SECTION 58 - ATTACHMENTS / HEADERS

Chapter 1 - Cutter Bar

CONTENTS

Section	Description	Page
	Introduction	2
	Discs	5
	Knife and Bolt Inspection	6
	Knife Replacement	7
	Crop Lifter Replacement	9
	Rock Guard Replacement	9
	Skid Shoe Replacement	9
	Cutter Bar Inspection/Failure Analysis	10
	Top Cap Removal	13
	Inspection	14
	Top Cap Installation	15
	Cutter Bar Removal	17
	Cutter Bar Installation	20
	Cutter Bar Bayonet Bushing - Replacement	21
	Cutter Bar Disassembly	22
	Cutter Bar Reassembly	23
	Disc Module - Disassembly	26
	Disc Module - Assembly	28
	Cutter Bar Drive Shaft - Disassembly	32
	Cutter Bar Drive Shaft - Assembly	34

SECTION 58 - ATTACHMENTS / HEADERS

Chapter 2 - Bevel Gearbox

CONTENTS

Section	Description	Page
	Bevel Gearbox - Removal	2
	Bevel Gearbox - Disassembly	5
	Bevel Gearbox - Reassembly	8
	Bevel Gearbox - Installation	13

SECTION 58 - ATTACHMENTS / HEADERS

Chapter 3 - Conditioner Rolls and Drive System

CONTENTS

Section	Description	Page
	Introduction	2
	Conditioner Belt	3
	Conditioner Belt Replacement	4
	Conditioner Roll Gearbox - Removal	5
	Conditioner Roll Gearbox - Disassembly	7
	Conditioner Roll Gearbox - Assembly	8
	Conditioner Roll Gearbox - Installation	9
	Upper Conditioner Roll Drive Shaft - Disassembly	11
	U-joints - Assembly	13
	Lower Conditioner Roll - Removal	14
	Lower Conditioner Roll - Installation	18
	Upper Conditioner Roll - Removal	24
	Upper Conditioner Roll - Installation	27
	Conditioner Roll Tension System	29
	Left Side Torsion Arm and Bar Disassembly	29
	Right Side Torsion Arm, Torsion Bar and Adjusting Tube Disassembly	31
	Conditioner Roll Tension System - Assembly	33
	Right Side Torsion Arm, Torsion Bar and Adjusting Tube Assembly	33
	Left Side Torsion Arm and Bar Assembly	35

SECTION 88 - ACCESSORIES

Chapter 1 - Optional Equipment

CONTENTS

Section	Description	Page
	High Stubble Kit	2

SECTION 90 - SAFETY DECALS

Chapter 1 - Safety Decals

CONTENTS

Section	Description	Page
	Safety Decals	2

SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

CONTENTS

Section	Description	Page
	Foreword	2
	Precautionary Statements	3
	Safety	4
	Product Identification Number	6
	Manual Holder	6
	Hardware Torque Values	7
	Installation of Adjustable Fittings in Straight Thread O-Ring Bosses	10
	Standard Torque Data For Hydraulic Tubes and Fittings	10
	Pipe Thread Fitting Torque	11
	Installation of ORFS (O-Ring Flat Faced) Fittings	11
	Ecology and the Environment	12
	Universal Symbols	13
	Tractor Requirements	14
	Tractor Drawbar Dimensions	15
	Attaching the Mower-conditioner to the Tractor	16
	Jack Assembly	16
	Hydraulic Hoses	16
	Hydraulic Cylinders	17
	Connecting Hydraulic Hoses to the Tractor	17
	Bleeding Air from the Lift Cylinders	18
	Transporting the Mower-conditioner	19
	Slow-moving Vehicle Emblem	19
	Transporting on Highways	19
	Safety Chain	19
	Trailing Lights	20
	Towing with a Tractor	21
	Towing with a Truck	22
	Parking the Machine	23
	Storing the Mower-conditioner	23
	Specifications	24
	Special Tools	25

FOREWORD

Appropriate service methods and correct repair procedures are essential for the safe, reliable operation of all equipment, as well as the personal safety of the individual performing the repair.

This Repair Manual provides troubleshooting and overhaul instructions using recommended procedures and equipment. Following these instructions will ensure the safe, efficient, and timely completion of the service or repair.

The manual is divided into sections which are subdivided into chapters. Each chapter contains information on general operating principles, detailed inspection, overhaul and, where applicable, specific troubleshooting, special tools, and specifications.

Any reference in this manual to right, left, rear, front, top, or bottom is determined by standing behind the machine and looking in the direction of travel.

All data and illustrations in this manual are subject to variations in build specification. This information was correct at the time of issue, but Case IH policy is one of continuous improvement, and the right to change specifications, equipment, or design at any time, without notice, is reserved.

PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“**DANGER**”, “**WARNING**”, and “**CAUTION**”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



DANGER



This word “**DANGER**” indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.



WARNING



This word “**WARNING**” indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.



CAUTION



This word “**CAUTION**” indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

FAILURE TO FOLLOW THE “DANGER”, “WARNING”, AND “CAUTION” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

The precautionary statement (“**IMPORTANT**”) is followed by specific instructions. This statement is intended for machine safety.

IMPORTANT: *The word “IMPORTANT” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

SAFETY

PRECAUTIONARY STATEMENTS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read the following precautions before operating this equipment. Equipment should be operated only by those who are responsible and instructed to do so.

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

1. **Never operate the machine with any shield raised. Always operate the disc mower-conditioner with the covers and shields in place and skirts clipped together.**
2. **A tractor with an enclosed cab is recommended when operating a rotary disc cutting machine.**
3. **Fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Always protect the skin and eyes from escaping fluid under pressure. Before disconnecting lines or fittings, be sure to release all pressure by operating the tractor control valves. Before applying pressure to the system, be sure all connections are tight and that hoses and connections are not damaged. If injured by escaping fluid, obtain medical assistance at once. Serious infection or reaction can develop if medical treatment is not administered immediately.**
4. **If hydraulic couplers must be changed, be sure to bleed off any residual pressure slowly.**
5. **Before swinging the tongue, be sure the machine will clear any obstructions. Be sure bystanders are clear of the machine when swinging the tongue. Air in the system or high hydraulic flow rate can cause erratic operation.**
6. **Failure to engage the header lift locks and tongue swing cylinder lock when transporting machine could cause the machine to drop onto the pavement or to swing to the right into roadside obstacles or ditches if the tractor hydraulics are accidentally engaged during transport.**
7. **Never adjust or make a repair with the disc mower-conditioner running. Disengage the PTO and shut off the tractor engine before attempting to make adjustments or service the machine. Wait for all rotating parts to stop before opening shielding, covers, or standing close to the machine. Rotating elements may cause serious bodily injury.**
8. **Loose stones and foreign objects can be deflected toward the operator on machines with rotary discs.**
9. **Immediately replace any skirt that is torn or has a hole in it.**
10. **Tilt the cutter bar back in fields where stones and foreign objects are present, to raise the cutting knives and minimize debris deflected from the knives and reduce knife damage. If stones or other foreign objects enter the cutter bar, they can be deflected toward the operator or bystanders, resulting in physical injury.**
11. **Do not attempt to remove material from the disc mower-conditioner while it is in operation. Shut the tractor off and allow the rotating discs to stop before leaving the tractor.**
12. **Be sure that the header lift locks are engaged before working on a raised header.**
13. **Do not attempt to unplug conditioner rolls without first relieving roll pressure. Roll pressure could cause top conditioner roll to move downward suddenly and could cause personal injury.**

- 14. The header should be resting on the ground or suspended in the transport position by the header lift locks during lubrication or maintenance.**
- 15. Replace damaged knives, knife hardware or discs immediately to prevent an accident.**
- 16. The bottom leading edge of worn discs can become very sharp; wear gloves to prevent injury.**
- 17. Replace cracked or severely deformed knives immediately to prevent an accident.**
- 18. The tractor end of the primary PTO shaft has a CV joint which is heavy. Be careful when handling it; dropping it could cause personal injury to yourself and damage the CV joint.**
- 19. Before disconnecting the lift cylinder hose, be sure the header is resting on the ground or on the header lift locks.**
- 20. Always replace or close all shields after making repairs, adjustments, or after lubricating. Shields are for your protection. Keep them in place!**
- 21. Do not weld on wheels. Welding on wheels may cause high stress and a wheel failure.**
- 22. Do not weld on wheels with a mounted tire. Welding on wheels with a mounted tire may cause the tire to burst, causing serious injury or death.**



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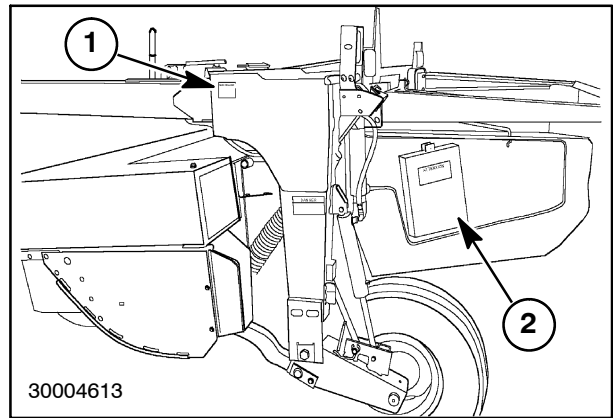
PRODUCT IDENTIFICATION NUMBER

The product identification number plate, 1, for the mower-conditioner is located on the left side of the trailframe.

Always use genuine factory parts.

MANUAL HOLDER

A manual holder, 2, is mounted on the left side window shield, and provides a readily accessible storage location for this manual.



HARDWARE TORQUE VALUES

Check the tightness of hardware periodically.

Use the following charts to determine the correct torque when checking, adjusting or replacing hardware on the tractor.

IMPORTANT: DO NOT use the values listed in the charts if a different torque value or tightening procedure is specified in this manual for a specific application. Torque values listed are for general use only.

Install a lock washer on all bolts unless a locknut or jam nut is specified.

Install a flat washer at all slotted holes unless a carriage bolt or flanged head bolt is specified.

Make sure fastener threads are clean and not damaged.

NOTE: A torque wrench is necessary to properly torque hardware.

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