

DCX101 Disc Mower-Conditioner

Repair Manual

87548193
Replaces 86630296

CASE *III*

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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.

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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.**

On this equipment, left and right are determined by standing behind the unit, looking in the direction of travel.

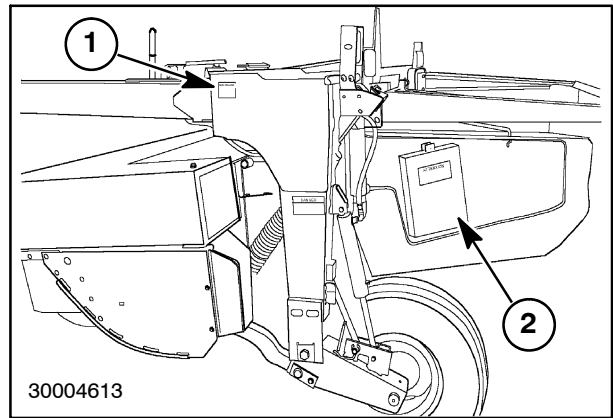
PRODUCT IDENTIFICATION NUMBER

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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