

# **FD22 DISC SAW FELLING HEAD**

S/N WCFD22X007001 – WCFD22X007214

## **OPERATOR'S MANUAL FD22 DISC SAW FELLING HEAD OMF381763**

**CALIFORNIA  
Proposition 65 Warning**

**Diesel engine exhaust and some of its constituents  
are known to the State of California to cause cancer,  
birth defects and other reproductive harm.**

**Worldwide Construction and Forestry Division**

English

# Table of Contents

---

| <b>Section</b> | <b>Description</b>        |
|----------------|---------------------------|
| 1              | Introduction              |
| 2              | Warranty                  |
| 3              | Safety Rules              |
| 4              | Description               |
| 5              | Operation                 |
| 6              | Lubrication & Maintenance |
| 7              | Hydraulic System          |
| 8              | Electrical System         |
| 9              | Troubleshooting           |
| 10             | Specifications            |
| 11             | Miscellaneous             |
| 12             | Alphabetical Index        |

# Table of Contents

---

|   |            |
|---|------------|
| <b>1. Introduction</b>                              | <b>1-1</b> |
| 1.1 Foreword  | 1-2        |
| 1.2 Model and Serial Number Record                  | 1-3        |
| 1.3 Non-Approved Field Product Changes              | 1-4        |
| <hr/>   |            |
| <b>2. Warranty</b>                                  | <b>2-1</b> |
| 2.1 Warranty Certificate                            | 2-2        |
| <hr/>   |            |
| <b>3. Safety Rules</b>                              | <b>3-2</b> |
| 3.1 General   | 3-2        |
| 3.2 Safety Symbol                                   | 3-2        |
| 3.3 Understanding Signal Words                      | 3-2        |
| 3.4 General Safety Precautions                      | 3-3        |
| 3.5 Operating Safety Precautions                    | 3-6        |
| 3.6 Servicing Safety Precautions                    | 3-7        |
| 3.7 Fire Prevention                                 | 3-10       |
| <hr/>   |            |
| <b>4. Description</b>                               | <b>4-1</b> |
| 4.1 Nomenclature                                    | 4-2        |
| 4.1.1 FD22 Felling Head Description                 | 4-2        |
| 4.2 Decal Application                               | 4-3        |
| 4.2.1 FD22 Felling Head Decal Location (Left Side)  | 4-3        |
| 4.2.2 FD22 Felling Head Decal Location (Right Side) | 4-4        |
| 4.3 Saw Drive Components                            | 4-5        |
| 4.4 Saw Drive Description                           | 4-6        |
| 4.5 Disc Saw Blade Description                      | 4-7        |
| 4.5.1 Serial Number Location                        | 4-7        |
| 4.5.2 Blade with Curved Carbide Tipped Teeth        | 4-7        |
| 4.5.3 Blade with Hardened Teeth                     | 4-7        |
| 4.6 Disc Saw Blade and Tooth Data                   | 4-8        |
| 4.7 Stop Plate - Tilt Angle                         | 4-10       |

---

# Table of Contents

---

|  |            |
|--|------------|
| 4.7.1 Stop Plate Description .....                 | 4-10       |
| <hr/>  |            |
| <b>5. Operation .....</b>                          | <b>5-1</b> |
| 5.1 Basic Operation .....                          | 5-2        |
| 5.1.1 Principle of Operation .....                 | 5-2        |
| 5.1.2 Blade Feeding Speed .....                    | 5-3        |
| 5.1.3 General Method of Operation .....            | 5-3        |
| 5.1.4 Stopping the Disc Saw Blade .....            | 5-4        |
| 5.1.5 Accumulating Clamp Arm Modification .....    | 5-4        |
| 5.2 Operating Instructions .....                   | 5-5        |
| 5.2.1 Cutting Multiple Trees .....                 | 5-5        |
| 5.2.2 Handling The Tree .....                      | 5-7        |
| <hr/>  |            |
| <b>6. Lubrication and Maintenance .....</b>        | <b>6-1</b> |
| 6.1 Maintenance Schedule .....                     | 6-2        |
| 6.2 Maintenance Procedures .....                   | 6-3        |
| 6.2.1 General .....                                | 6-3        |
| 6.2.2 Tools Required .....                         | 6-4        |
| 6.2.3 Bolt Torque Chart .....                      | 6-5        |
| 6.2.4 Maintenance - 8 Hours .....                  | 6-6        |
| 6.2.5 Maintenance - First 25 Hours .....           | 6-14       |
| 6.2.6 Maintenance - 125 Hours .....                | 6-18       |
| 6.2.7 Maintenance - 250 Hours .....                | 6-20       |
| 6.3 Unscheduled Maintenance .....                  | 6-21       |
| 6.3.1 Disc Saw Blade Inspection .....              | 6-21       |
| 6.3.2 Saw Tooth Replacement .....                  | 6-23       |
| 6.3.3 Disc Saw Blade Removal .....                 | 6-25       |
| 6.3.4 Disc Saw Blade Installation .....            | 6-28       |
| 6.3.5 Check All Hydraulic Hoses and Fittings ..... | 6-30       |
| 6.3.6 Disc Saw Blade Gauge .....                   | 6-30       |
| 6.4 Fluids and Lubricants .....                    | 6-34       |
| 6.4.1 Recommended Hydraulic System Fluids .....    | 6-34       |

---

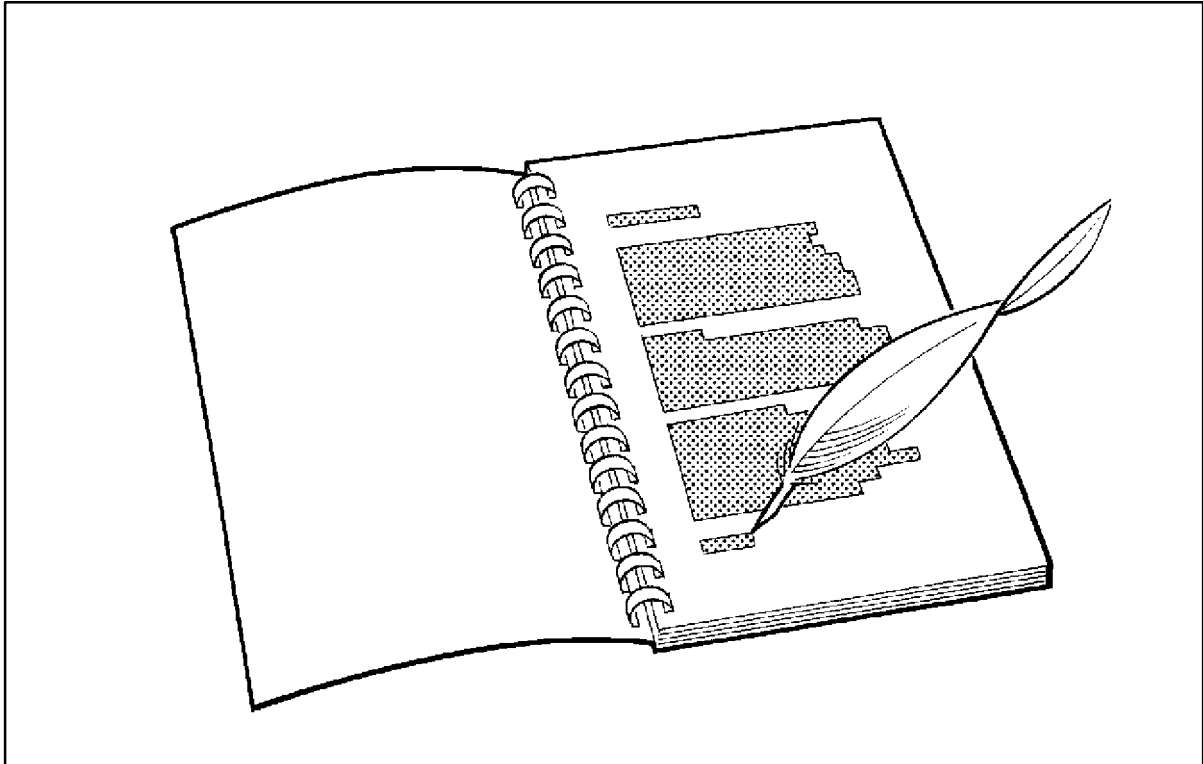
# Table of Contents

---

|   |             |
|---|-------------|
| <b>7. Hydraulic System</b> .....  | <b>7-1</b>  |
| 7.1 Initial Pump & Motor Startup .....                                      | 7-2         |
| 7.2 Initial Saw Speed Adjustment .....                                      | 7-2         |
| 7.3 Initial Saw Circuit Begin of Stroke Adjustment & Pressure Setting ..... | 7-2         |
| <hr/>   |             |
| <b>8. Electrical System</b> .....   | <b>8-1</b>  |
| 8.1 Saw Speed Sense Equipment .....   | 8-2         |
| 8.2 Saw Speed Tachometer .....  | 8-4         |
| <hr/>   |             |
| <b>9. Troubleshooting</b> .....   | <b>9-1</b>  |
| 9.1 Disc Saw Blade Stalling .....   | 9-2         |
| 9.1.1 Operator Technique .....  | 9-2         |
| 9.1.2 Disc Saw Blade Maintenance .....                                      | 9-2         |
| 9.1.3 Hydraulic .....   | 9-3         |
| 9.1.4 Can't Obtain Maximum Disc Saw Blade Speed .....                       | 9-3         |
| <hr/>   |             |
| <b>10. Specifications</b> .....   | <b>10-1</b> |
| 10.1 Dimensions .....   | 10-2        |
| 10.2 Specifications .....   | 10-3        |
| 10.2.1 General .....  | 10-3        |
| <hr/>   |             |
| <b>11. Miscellaneous</b> .....  | <b>11-1</b> |
| 11.1 Measurement Conversions .....  | 11-2        |
| 11.1.1 Miscellaneous Conversions .....                                      | 11-3        |
| 11.1.2 Metric and Imperial Unit Expressions .....                           | 11-3        |
| 11.2 Wood Measurement Equivalents .....                                     | 11-4        |
| 11.3 Weights of Commercially Important Woods .....                          | 11-5        |
| 11.4 General Bolt Torque Values .....                                       | 11-6        |

---

# 1. Introduction



|  |     |
|--|-----|
| 1.1 Foreword                           | 1-2 |
| 1.2 Customer Feedback                  | 1-3 |
| 1.3 Model and Serial Number Record     | 1-4 |
| 1.4 Non-Approved Field Product Changes | 1-5 |

## **1.1 Foreword**

To assist the operator in becoming familiar with the many features of the Felling Head, and thereby quickly become proficient in the operation and periodic maintenance procedures, this manual is provided with detailed operating and maintenance instructions as well as safety information and equipment data.

Throughout this manual, references are made to the front, rear, left, and right side of the machine. Consider the front from a seated position in the operator's seat with the felling head directly in front of you and the felling head arms as being left and right.



Where applicable throughout the text, "Safety Alert" symbols have been used to indicate important safety measures. Read carefully, understand, and follow these instructions to prevent hazardous situations that could lead to risk of personal injury.

The instructions and procedures in this manual cover the felling heads with the most commonly used options; therefore pictorial presentation in some areas may vary slightly from the actual machine. This variation, however, does not have any impact on the accuracy of the written information.

The information contained in this manual is current at the time of publication; however, continuing improvement may result in changes to the machine which are not covered. Should information regarding such changes or further information on the machine be required, please contact your dealer.

## 1.2 Customer Feedback

**HELP!! HELP!! HELP!! HELP!!**

We need your help to continually improve our technical publications. Please FAX or mail your comments, ideas and improvements.

SEND TO:                   **John Deere**  
                                  P.O. Box 160  
                                  Attn: Publications Supervisor,  
                                  Product Support Department  
                                  Woodstock, Ontario, Canada  
                                  N4S 7X1

**FAX NUMBER: 519-537-2664**

Ideas, Comments (Please State Page Number) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OVERALL, how would you rate the quality of "ALL" manuals provided ? (Check One)

| Poor     | Fair     | Good     | Very Good | Excellent |
|----------|----------|----------|-----------|-----------|
| 1      2 | 3      4 | 5      6 | 7      8  | 9      10 |

Company Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_  
FAX No. \_\_\_\_\_  
Dealer Acct. No. \_\_\_\_\_

**THANK YOU!**



**Buy Now**



Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)