

850/950 FELLER BUNCHER

850 – 997440 – 997470

850 – 10BA1002 – 10BA1247

950 – 997440 – 997470

950 – 10BA1002 – 10BA1247

OPERATOR'S MANUAL 850/950 FELLER BUNCHER OMF292297

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.



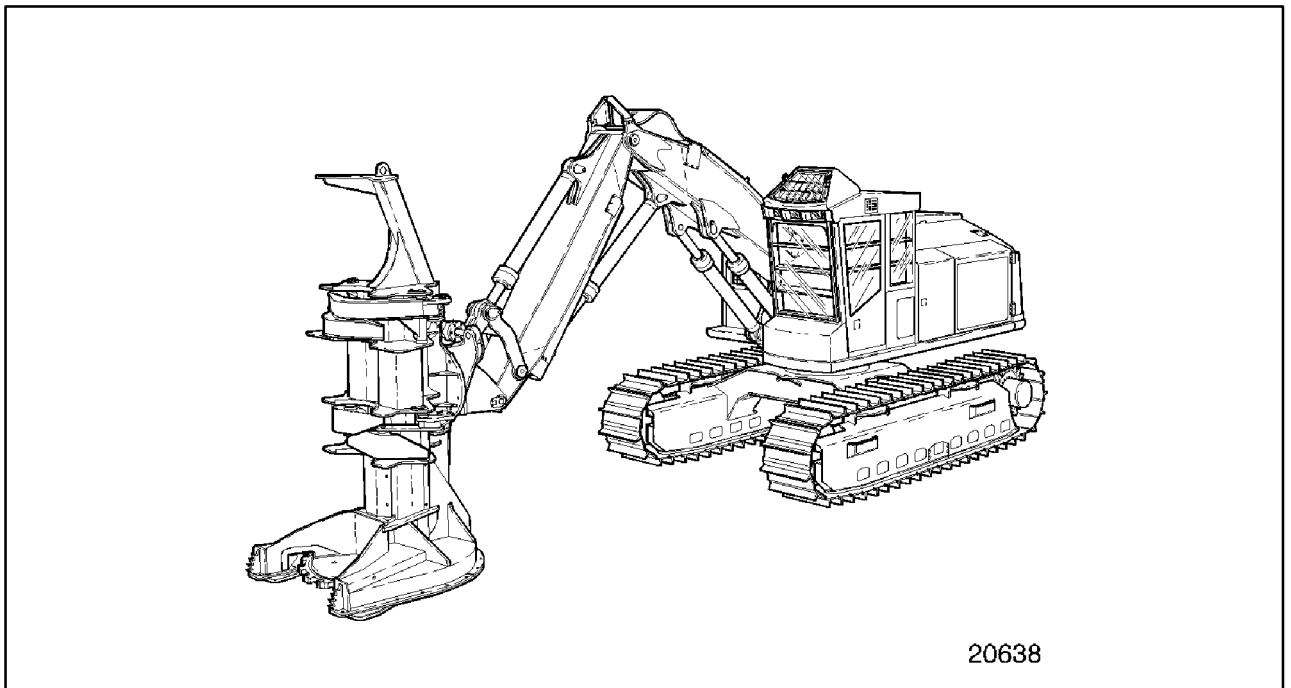
WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Worldwide Construction and Forestry Division

English

Operator and Maintenance Manual



850/950 Feller Buncher

Timberjack Inc.
P.O. Box 160
925 Devonshire Avenue
Woodstock, Ontario, Canada
N4S 7X1

Telephone: (519) 537-6271
Service Dept. Fax:
Product Support Fax: (519) 537-2664
Parts Dept. Fax:

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

Table of Contents

- 1. Introduction 1-1**
 - 1.1 Foreword 1-2
 - 1.2 Model and Serial Number Record 1-3
 - 1.3 Modifications or Repairs to Roll-over Protective Structures (ROPS) 1-4
 - 1.4 Non-approved Field Product Changes 1-6
 - 1.5 Sound Information 1-7

- 2. Warranty 2-1**
 - 2.1 Warranty Certificate - Timberjack Feller Bunchers 2-2
 - 2.2 Items Not Covered By Warranty 2-3

- 3. Safety Rules 3-1**
 - 3.1 Foreword 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 3-9
 - 3.7 Fire Prevention 3-12
 - 3.8 What To Do If The Machine Catches Fire 3-13

- 4. Description 4-1**
 - 4.1 Introduction 4-2
 - 4.2 Equipment Nomenclature 4-2
 - 4.2.1 850 Feller Buncher 4-2
 - 4.2.2 950 Feller Buncher 4-4
 - 4.3 Controls and Instrumentation 4-6
 - 4.3.1 Operator Controls and Instruments 4-6
 - 4.3.2 Understanding the Gauges 4-8
 - 4.3.3 Switches and Gauges 4-10

Table of Contents

4. Description	4-1
4.3.4 Miscellaneous	4-19
4.3.5 Safety Items	4-26
4.3.6 Engine Enclosure	4-29
4.4 Auto-Lubrication System (Optional)	4-31
4.4.1 Description	4-31
4.4.2 System Configuration	4-34
4.4.3 Pump/Reservoir Assembly	4-35
4.4.4 Filling the System	4-36
<hr/>	
5. Operation	5-1
5.1 Driving the Feller Buncher	5-2
5.1.1 Pre-Start Checks	5-2
5.1.2 Before Starting The Engine	5-3
5.1.3 Starting/Operating The Engine	5-4
5.1.4 Hydraulic Oil Warm-up Procedure	5-6
5.1.5 Operating the Track Drive	5-7
5.1.6 Stopping Procedure	5-9
5.2 Operating the Implements	5-11
5.2.1 General	5-11
5.2.2 Joystick Control Lever - Left Hand	5-12
5.2.3 Joystick Control Lever - Right Hand	5-13
5.2.4 Control Panel	5-15
5.3 Felling Technique	5-17
5.3.1 Preparation Of Machine Before Leaving For Cutting Area	5-17
5.3.2 General	5-19
5.3.3 Felling Head	5-20
5.3.4 Cutting The Tree	5-21
5.3.5 Handling The Tree	5-22
5.3.6 Stopping The Disc Saw Blade	5-22
5.3.7 Cutting Multiple Trees	5-23

Table of Contents

- 6. Lubrication and Maintenance 6-1**
 - 6.1 Maintenance Schedule 6-2
 - 6.2 Maintenance Procedures 6-6
 - 6.2.1 Service Enclosures 6-6
 - 6.2.2 Maintenance - 8 Hours 6-10
 - 6.2.3 Maintenance - First 25 Hours 6-18
 - 6.2.4 Maintenance - 125 Hours 6-26
 - 6.2.5 Maintenance - 250 Hours 6-34
 - 6.2.6 Maintenance - 500 Hours 6-35
 - 6.2.7 Maintenance - 1000 Hours 6-36
 - 6.2.8 Maintenance - 2000 Hours 6-38
 - 6.2.9 Unscheduled Maintenance 6-38
 - 6.3 Fluids and Lubricants 6-39
 - 6.3.1 Fluid and Lubricant Specifications 6-39
 - 6.3.2 Engine Oil Viscosity Chart 6-40
 - 6.3.3 Planetary Gearbox Oil Viscosity Chart 6-41
 - 6.4 Recommended Hydraulic System Fluids 6-42

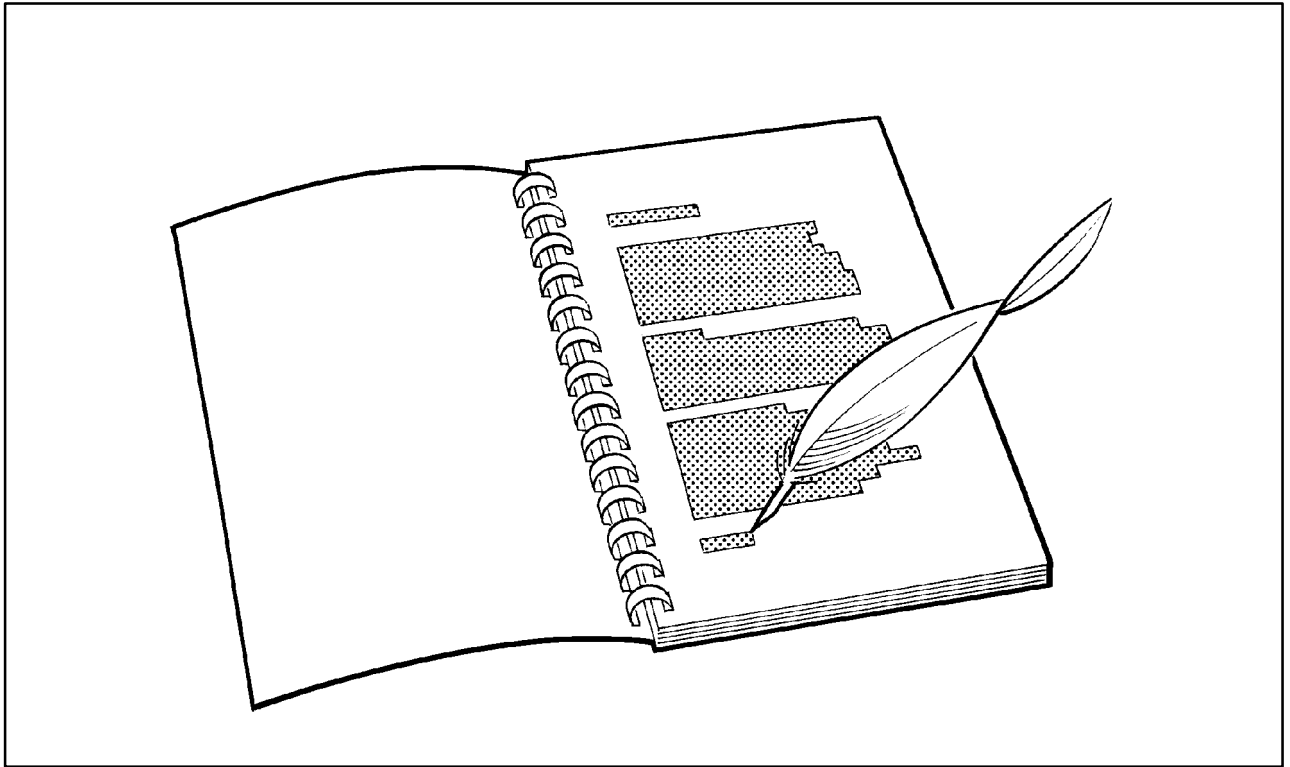
- 7. Hydraulic System 7-1**
 - 7.1 Hydraulic Schematic - 850 Feller Buncher 7-2
 - 7.2 Hydraulic Schematic - 950 Feller Buncher 7-6
 - 7.3 Hydraulic Schematic - 950 Feller Buncher 7-10

- 8. Electrical System 8-1**
 - 8.1 Electrical System Schematic Diagrams 8-2

Table of Contents

9. Troubleshooting	9-1
9.1 General	9-2
9.2 Engine Start	9-3
9.3 Pilot Pressure Circuit	9-4
9.4 Travel Brakes	9-5
9.5 Oil Cooler	9-6
9.6 Swing	9-7
9.7 Hoist	9-8
9.8 Stick	9-9
9.9 Tilt	9-10
9.10 Enclosure	9-11
9.11 Auto-Lubrication System (Optional)	9-12
<hr/>	
10. Specifications	10-1
10.1 Machine Dimensions	10-2
10.2 Specifications	10-4
<hr/>	
11. Miscellaneous	11-1
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



<u>1.1 Foreword</u>	<u>1-2</u>
<u>1.2 Model and Serial Number Record</u>	<u>1-3</u>
<u>1.3 Modifications or Repairs to Roll-over Protective Structures (ROPS)</u>	<u>1-4</u>
<u>1.4 Non-approved Field Product Changes</u>	<u>1-6</u>
<u>1.5 Sound Level</u>	<u>1-7</u>

1.1 Foreword

To assist the operator in becoming familiar with the many features of this machine, and thereby become proficient in the operation and periodic maintenance procedures, this manual is provided with detailed operating and service 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 right side, left side, front, and rear, of the felling head from a seated position in the operator's seat with the felling head directly in front of you and the arms and blade as being at the front.

Note!

The above mentioned references are made with the track drive sprockets positioned at the rear of the machine.



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 product 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 Timberjack dealer.

**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.

Battery terminals and posts contain lead or lead compounds, which are known to the State of California to cause cancer and birth defects. Wash hands after handling batteries.

1.2 Model and Serial Number Record

In order to identify your machine and its components correctly when communicating with your Timberjack dealer, please record the model and serial numbers below and refer to them when ordering Service Parts.

Machine Model No: _____
Serial No: _____

Engine Model No: _____
Serial No: _____

Attachment Model No: _____
Serial No: _____

Saw Hydraulic Motor Model No: _____
Serial No: _____

Clamp/Wrist Pump Model No: _____
Serial No: _____

Attachment Pump Model No: _____
Serial No: _____

Pilot Pump Model No. _____
Serial No. _____

L.H. Track, Hoist & Tilt Pump Model No: _____
Serial No: _____

R.H. Track, Swing & Stick Pump Model No: _____
Serial No: _____

L.H. Track Drive Planetary Model No: _____
Serial No: _____

L.H. Track Drive Hydraulic Motor Model No: _____
Serial No: _____

R.H. Track Drive Planetary Model No: _____
Serial No: _____

R.H. Track Drive Hydraulic Motor Model No: _____
Serial No: _____

Swing Drive Planetary Model No: _____
Serial No: _____

Swing Drive Hydraulic Motor Model No: _____
Serial No: _____

1.3 Modifications or Repairs to Roll-over Protective Structures (ROPS)

Modification of any kind to the basic ROPS structure, its mounting, the chassis to which it is attached, or the type and position of the operator's seat could affect the integrity of the ROPS and its ability to provide the designed level of protection.

IT IS TIMBERJACK POLICY THAT ANY SUCH MODIFICATION AUTOMATICALLY VOIDS THE APPLICABLE CERTIFICATION FOR APPROVAL OF THE ROPS.

The only exceptions to these are:

- a) Officially released, TIMBERJACK approved changes or options carried out in the Factory approved manner; or
- b) Modifications or repairs approved in writing by the TIMBERJACK INC. Manager of Engineering carried out in the Factory approved manner.

NO OTHER PERSONS ARE AUTHORIZED TO GIVE SUCH APPROVAL.

The Roll-over Protective Structure (ROPS) is comprised of:

1. The cab assembly exclusive of all doors, screens or other miscellaneous panels which are installed or attached to the weldment.
2. All mounting hardware used to attach the cab assembly to the machine structures.

TIMBERJACK disclaims responsibility for any situation that may arise as a result of unauthorized modification or repairs to these structures.

If any customer or TIMBERJACK distributor modifies or repairs, or contributes in any way to unauthorized modification or repair, the customer or distributor will be deemed to have assumed the risk involved with such modification or repair or negligent in creating a dangerous situation resulting from such action.

Most North American regulatory bodies allow manufacturers to certify their products providing they are able to demonstrate that they can satisfy all the design and test criteria specified in the appropriate S.A.E. Recommended Practices.

TIMBERJACK follows a procedure of design and test and then certifies its product by means of a certification plate attached to the structure, listing the Recommended Practices to which it conforms.

ROPS are designed both to withstand force and absorb energy during a roll-over or when resisting the impact of a falling object. If any permanent deflection of the structure occurs, the structure can no longer provide the original designed level of protection and should be replaced. Attempts to straighten the structure, particularly by the application of heat, can reduce still further the structure's remaining capability to protect.

1.3 Modifications or Repairs to Roll-over Protective Structures (ROPS)

The mounting and the frame or chassis to which the cab or canopy is attached is considered an integral part of the ROPS and is included in the design, test and certification of the product.

Also critical is the location of the operator within the cab or canopy, therefore the location and type of operator's seat is included in the certification.

The Roll-over Protective Structures (ROPS) are designed and tested to conform with the requirements of: S.A.E. J1040 - May 1994, ISO 8082:1984 for ROPS (Roll Over Protective Structure) and the requirements of:

S.A.E. J231 - Jan. 1981, ISO 8083:1989 for FOPS (Falling Object Protective Structure).

The Operator Protective Structure (OPS) is designed and tested to conform to the requirements of: S.A.E. J1084 - April 1980, ISO 8084:1993.

The Operator Protective Structure is comprised of:

1. The cab assembly.
2. All doors, panels, screens, glazing and window retention backing bars which are attached to the canopy surfaces exterior to the machine.

Before attempting any modifications or repair to roll-over protective structures, contact the Product Support Department at TIMBERJACK INC., Woodstock for advice and assistance.

TIMBERJACK INC.
Woodstock, Ontario, Canada

1.4 Non-approved Field Product Changes

Changes of any kind to this TIMBERJACK product including the fitting of any unauthorized attachments could affect the integrity of the product, its stability, or its ability to perform as designed or intended.

IT IS TIMBERJACK POLICY THAT NO CHANGES ARE TO BE MADE TO ITS PRODUCTS INCLUDING DELETIONS OR ADDITIONS OTHER THAN A TIMBERJACK APPROVED OPTION FITTED IN THE FACTORY APPROVED MANNER.

In particular, this applies to a Disc Saw blade (cutting device) used in conjunction with a Disc Saw Felling Head that has been designed and manufactured by TIMBERJACK Options or changes are only officially approved in the following form:

- a) Standard options for that product shown or listed on a current, printed specification sheet, price list, parts manual, or product literature issued by TIMBERJACK.
- b) Clearly specified options or product changes approved in writing by the TIMBERJACK INC. Manager of Engineering.

NO OTHER PERSON IS AUTHORIZED TO GIVE SUCH APPROVAL.

TIMBERJACK disclaims responsibility for any situation that may arise as a result of unauthorized change to its product, such as the use of a non-approved Disc Saw Blade (cutting device) being installed on a Disc Saw Felling Head.

If any person or organization modifies or contributes in any way to unauthorized modification, the person or organization will be deemed to have assumed the risk involved with such modification and may be deemed negligent in creating a dangerous situation resulting from such action.

Options, attachments, and modifications add weight to the machine, which in total must not exceed the "Maximum Operating Weight" for your model. Exceeding this maximum weight will affect safety approval on weight related items such as ROPS and brakes, and warranty on items where such additional weight has an adverse effect.

Refer to your Timberjack dealer for information on maximum permissible operating weight and the effect the addition of various options may have on your machine.

Where changes are made without the official approval, as described above, and TIMBERJACK becomes involved in suit arising out of such change, TIMBERJACK will protect its interest by taking whatever action is appropriate.

Failure to adhere to this policy NULLIFIES and VOIDS *both the product warranty policy and the certification on any safety items installed on the modified machine.*

Non-approved product changes also nullify warranties given to TIMBERJACK by its component manufacturers.

TIMBERJACK INC.
Woodstock, Ontario, Canada

1.5 Sound Level

Measurement is obtained on a static machine with the procedures and cab conditions as described in ISO 6394 or 86/662/EEC.



Suggest:

If the above button click is invalid.

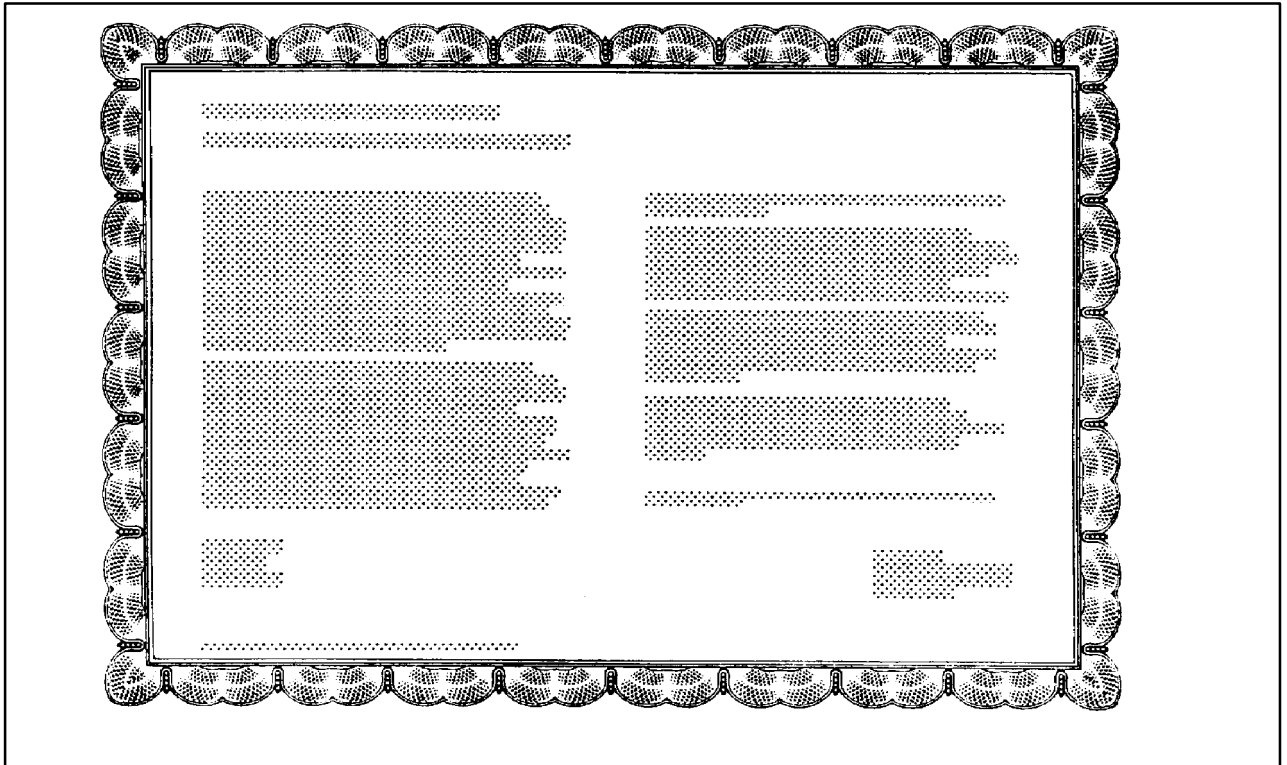
Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

2. Warranty



<u>2.1 Warranty Certificate - Timberjack Forestry Machines</u>	<u>2-2</u>
<u>2.2 Items Not Covered By Warranty</u>	<u>2-3</u>

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>