

# Windrower Tractors 8860, 8860HP, 8870, and 8880

## Table of Contents

DIVISION / SECTION	SECTION NO.	FORM NO.
<b>1 GENERAL</b>		
Index		Rac 6-22470
Introduction .....	1001	Rac 6-22480
Safety Rules, General Machine Specifications, and Standard Torque Specifications .....	1002	Rac 6-22490
Maintenance and Lubrication .....	1003	Rac 6-22500
Decals .....	1004	Rac 6-22510
<b>2 ENGINE</b>		
Index		Rac 6-22520
Engine Removal and Installation and Radiator Removal and Installation .....	2001	Rac 6-22530
Engine Accessories .....	2010	Rac 6-22540
Engine Service Information .....	2020	Rac 6-22550
<b>3 FUEL SYSTEM</b>		
Index		Rac 6-22560
Fuel System and Engine Controls .....	3001	Rac 6-22570
Fuel Injection Pump and Fuel Injectors .....	3002	Rac 6-22580
<b>4 ELECTRICAL SYSTEM</b>		
Index		Rac 6-22590
Removal and Installation of Electrical Components .....	4001	Rac 6-22600
Specifications, Schematics, Troubleshooting, and Using Booster Batteries to Start the Engine .....	4010	Rac 6-22610
Instruments .....	4020	Rac 6-22620
Electrical Schematics		Rac 6-5972 (Rev. B)
<b>5 STEERING</b>		
Index		Rac 6-22630
Removal and Installation of Steering Components .....	5001	Rac 6-22640
Steering Control Linkage Troubleshooting and Adjustment .....	5010	Rac 6-22650

<b>6</b>	<b>POWER TRAIN</b>	
	Index	Rac 6-22660
	Ground Drive Hydraulic System Specifications, Operation, Schematics, Troubleshooting, and Tests .....	6001 Rac 6-22670
	Charge Pump .....	6010 Rac 6-22680
	Tandem Pump .....	6012 Rac 6-22690
	Ground Drive Motors .....	6020 Rac 6-22700
	Two Speed Control Valve and Two Speed Cylinder .....	6030 Rac 6-22710
	Drive Controls .....	6032 Rac 6-22720
	Drive Shafts .....	6050 Rac 6-22730
	Chain Cases-with Single Drive Chains .....	6052 Rac 6-22740
	Chain Cases-with Dual Drive Chains .....	6054 Rac 6-22750
	Wheels and Tires .....	6060 Rac 6-22760
<b>7</b>	<b>BRAKES</b>	
	Index	Rac 6-22770
	Parking Lock .....	7001 Rac 6-22780
<b>8</b>	<b>HYDRAULIC SYSTEM</b>	
	Index	Rac 6-22790
	Hydraulic System Specifications, Operation, Schematics, Troubleshooting, and Tests .....	8001 Rac 6-22800
	Cleaning the Hydraulic System .....	8006 Rac 6-22810
	Header Drive Pump .....	8010 Rac 6-22820
	Header Drive System, Specifications, Operation, Schematics, Tests, and Adjustments-Tractors with Two Header Drive Motors .....	8015 Rac 6-22830
	Header Drive Motor-Tractors with One Header Drive Motor .....	8020 Rac 6-22840
	Header Drive Motor-Tractors with Two Header Drive Motors .....	8025 Rac 6-22850
	Header Lift and Flotation Valve, Header Angle Control Valve, and Bypass Valve .....	8030 Rac 6-22860
	Accumulator .....	8040 Rac 6-22870
	Cylinders .....	8090 Rac 6-22880
<b>9</b>	<b>CHASSIS</b>	
	Index	Rac 6-22890
	Air Conditioner Components, Removal and Installation .....	9001 Rac 6-22900
	Air Conditioning Troubleshooting and System Checks ..	9010 Rac 6-22910
	Cab, Seat, and Windshield .....	9020 Rac 6-22920
	Walking Beam .....	9040 Rac 6-22930

# DIVISION 1

## INDEX

SECTION TITLE	SECTION NUMBER
Introduction .....	1001
Safety Rules, General Machine Specifications, and Standard Torque Specifications .....	1002
Maintenance and Lubrication .....	1003
Decals .....	1004

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# Section 1001

## INTRODUCTION

### TABLE OF CONTENTS

General Information .....	1001-2
To Our Customer .....	1001-2
Introduction .....	1001-2
Serial Number Location .....	1001-2
Replacement Parts .....	1001-3
Units of Measure .....	1001-3
Table of Contents .....	1001-3
Page Numbers .....	1001-3

# GENERAL INFORMATION

## To Our Customer

We appreciate your confidence in our farm equipment and thank you for your patronage. In preparing this manual, we hope we have furnished you with a valuable tool for operating and maintaining this fine machine. Use this manual as your guide. Practicing the instructions given here will result in many years of dependable service from your machine.

Your Dealer can give you assistance with parts and specially trained personnel to assist you in repair and maintenance. Call your Dealer if you need any assistance or information.

## Introduction

This service manual has been prepared with the latest service information available at the time of publication. Read the service manual carefully before doing any service on this machine. This manual is one of the most important tools available to the service technician.

“Right-hand” and “Left-hand” as used in this manual is determined by facing in the direction the machine will travel when in use.

The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible production changes, your machine can vary slightly. The Manufacturer reserves the right to redesign and change the machine as necessary without notification.



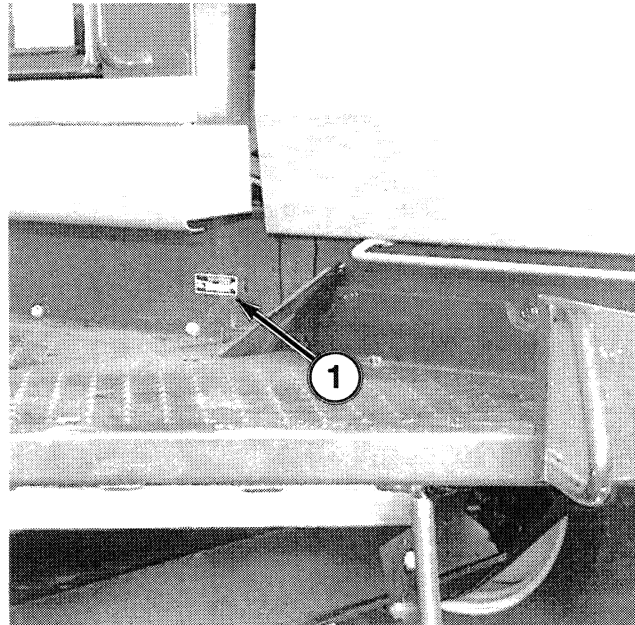
### WARNING

**Some pictures in this manual show the machine with shields removed to allow for a better view of the subject of the picture. Never operate the machine with any of the shields removed.**

## Serial Number Location

The serial number is important information about the machine. You will need the serial number when ordering some replacement parts.

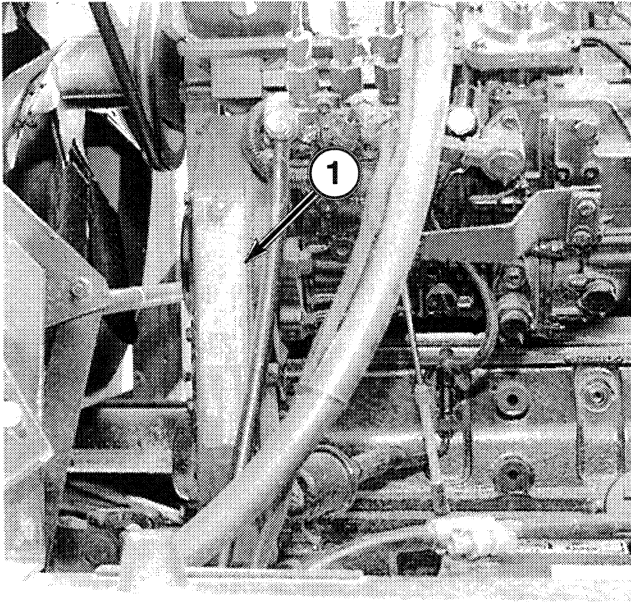
The tractor serial number plate is located on the left side of the tractor mainframe below the operator's platform.



845WT-96082-101

1. Serial Number Location on Tractor

The engine serial number plate is located on the left side of the engine.



825W-98F50

1. Serial Number Location on Engine

## Replacement Parts

To receive prompt, efficient service, always remember to give the dealer the following information:

1. Correct part number and description
2. Model number of the machine
3. Serial number of the machine

## Units of Measure

Measurements are given in metric units followed by the equivalent U.S. units. Hardware sizes are given in millimeters for metric hardware and inches for U.S. hardware.

## Table of Contents

A Table of Contents is in the front of this manual. The Table of Contents shows the divisions and the sections that are in each division. The individual divisions and sections also have a Table of Contents.

## Page Numbers

All page numbers are made of two numbers separated by a dash, such as 4002-9. The number before the dash is the section number. The number following the dash is the page number in that section. Page numbers will be at the upper right-hand or left-hand corner of each page.

# Section 1002

## SAFETY RULES, GENERAL MACHINE SPECIFICATIONS, AND STANDARD TORQUE SPECIFICATIONS

### TABLE OF CONTENTS

Safety Rules .....	1002-2
General Machine Specifications .....	1002-6
Standard Torque Specifications .....	1002-9

## SAFETY RULES

The manufacturer of this product is concerned about your safety and is committed to the prevention of accidents. A major factor in prevention of accidents is safe and proper use of the equipment. Be sure you or anyone who does any maintenance or service work on this machine reads and understands this manual before doing any maintenance or service work on this machine.



**This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death. Read and understand all operating instructions and precautions before attempting to operate or service the machine.**

**Caution others, especially children, about climbing on the machine or being too close while the machine is operating.**

**Emphasize the importance of safety when working around and operating the machine.**

**Always remain seated and have the seat belt fastened while operating the machine.**

**Make sure all safety shields are in place before operating the machine.**

**Place all control levers in neutral. Engage the parking lock control lever, center and lock the steering wheel, and shut off the engine before:**

- 1. Leaving the operator's seat**
- 2. Refueling**
- 3. Lubricating**
- 4. Cleaning the reel or hay conditioner**
- 5. Adjusting the machine**

**Never stand behind the tractor while the header is running.**

**Do not ride on the machine at any time. Never carry riders unless the machine is equipped with an optional factory instruction seat. The operator can carry one rider in the optional factory instruction seat.**

**Never operate the machine at high speeds in crowded places.**

**Never suddenly reverse the wheels to stop or backup.**

**Before working around or under the header, insert safety stops in cylinders.**

**Drop header to ground when parking. Always apply the parking lock after parking the machine.**

**Always travel with the header as low as possible.**

Always remove the ignition key when parking the machine.

Always keep your hands, feet and clothing away from moving parts. Never wear loose clothing while operating or servicing the machine.



## **WARNING**

Before doing any maintenance or service work on the tractor or the header you must:

- Put all controls in NEUTRAL.
- Apply the parking lock.
- Lower the header to the floor.
- Center and lock the steering wheel.
- Stop the engine.
- Make sure all moving parts have stopped.

Always apply the parking lock and block the wheels before working on or under the machine.

Never check or lubricate chains while the machine is running.

After lubricating, servicing, or adjusting the machine, make sure all tools and equipment have been removed before operating the machine.

Blindness can result from battery explosion. Keep sparks or open flames away from battery. Do not jump start. Burns can result from battery acid. In case of contact, flush immediately with water.

Always use a piece of cardboard or wood to search for suspected pressurized hydraulic leaks. NEVER use hands; escaping fluid under pressure can penetrate skin.

Never adjust, lubricate, or repair the machine with the engine running.

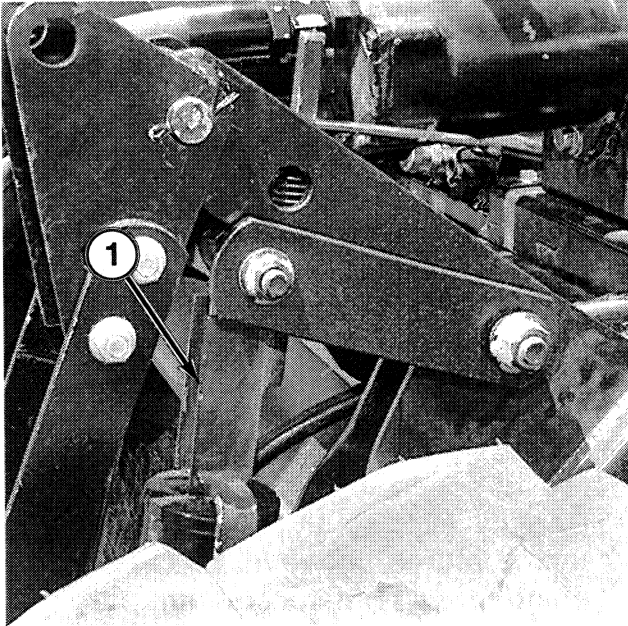
Never remove the cap from a hot radiator; escaping steam and hot fluids can cause personal injury.

Always use a solid support when using a jack to raise the tractor. Always block the tires when raising the tractor.

Do not drop the accumulator. A charged accumulator contains nitrogen charged to 5516 kPa (800 PSI). If the charging valve breaks away from the accumulator, the escaping nitrogen will propel the accumulator at a dangerous rate of speed.

Do not expose the accumulator to temperatures above 85 °C (185 °F). A charged accumulator contains nitrogen charged to 5516 kPa (800 PSI). Heat will cause the safety plug to blow out of the accumulator and the escaping nitrogen will propel the accumulator at a dangerous rate of speed.

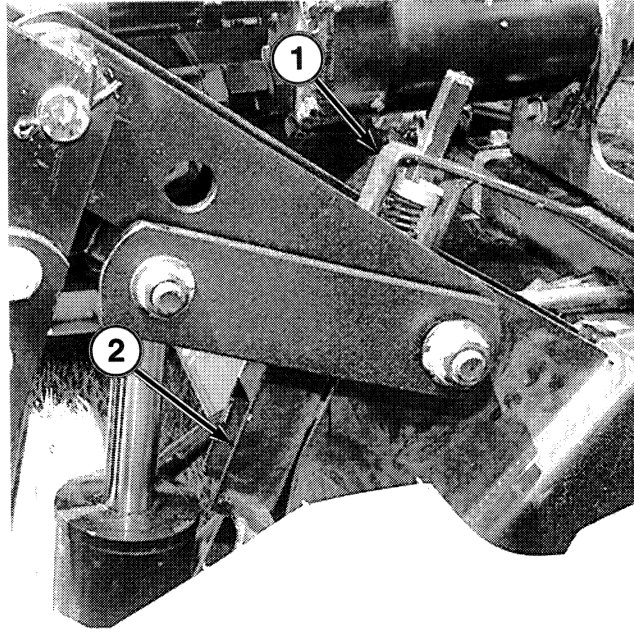
**Always engage the cylinder safety stop from the storage position to the safety position before working on or under the header. The cylinder safety stop is located at the left-hand end of the header.**



825W-98E26

**CYLINDER SAFETY STOP ENGAGED TO THE SAFETY POSITION**

1. Cylinder Safety Stop



825W-98E25

**CYLINDER SAFETY STOP DISENGAGED TO THE STORAGE POSITION**

1. Spring Assembly
2. Cylinder Safety Stop

**Do not tow or drive machine with the header up and the cylinder safety stop in safety position.**

**BE AWARE** of the transport width of the machine and be careful when transporting the machine on narrow roads and across narrow bridges. See **General Machine Specifications** in this section for overall dimensions.

**Always use adequate safety warnings and lights** when transporting the machine on public roads. Be sure the **SMV (Slow Moving Vehicle)** emblem is visible. Check with your local law enforcement agencies for specific requirements.

**Decals with “DANGER”, “CAUTION”, “WARNING”, and other information, appear on the machine for your safety. Read the information carefully.**

**Replace any safety decals that are worn or can no longer be read. See Section 1004 for the location of the safety decals.**

# GENERAL MACHINE SPECIFICATIONS

**MODEL** ..... 8860 and 8860HP Windrower Tractor

## DIMENSIONS AND WEIGHTS

**Length**  
 overall with draper header ..... 7267 mm (286.1 IN)  
 overall with auger header ..... 6543 mm (257.6 IN)  
 wheel base ..... 3556 mm (140 IN)

**Height**  
 top of cab ..... 3308 mm (130.2 IN)  
 clearance under walking beam ..... 953 mm (37.5 IN)  
 clearance under frame ..... 950 mm (37.4 IN)

**Width**  
 outside of hubs ..... 3034 mm (119.5 IN)  
 with standard tires ..... 3706 mm (145.9 IN)

**Tread width, drive tires** ..... 3202 mm (126 IN)

**Tread width, tailwheels**  
 minimum ..... 2144 mm (84.4 IN)  
 maximum ..... 3048 mm (120 IN)

**Weight (approximate)**  
 without header ..... 3629 kg (8000 LB)

## TIRES

**Drive wheels** ..... 19.5L x 24, bar tread  
 19.5L x 24, turf tread  
 wheel bolts ..... 5/8 IN  
 wheel bolt torque ..... 271 N·m (200 LB-FT)

**Tailwheels** ..... 14L x 16.1 6-ply implement rib  
 wheel bolts ..... 9/16-18  
 wheel bolt torque ..... 165 N·m (120 LB-FT)

**Tire pressure** ..... drive wheels 137 kPa (20 psi)  
 tailwheels 68.9 kPa (10 psi)

## ENGINE

**Model**  
 8860 ..... Case, 4-390  
 8860HP ..... Case, 4T-390

**Horsepower**  
 8860 ..... 80 @ 2500 r/min (rpm)  
 8860HP ..... 110 @ 2500 r/min (rpm)

**High idle** ..... 2750 r/min (rpm)

**Displacement** ..... 3.9 L (239 CU IN)

**Cooling system capacity** ..... 20.8 L (22 U.S. quarts)

**Cooling fan diameter** ..... 586 mm (23 IN)

**Fuel** ..... ASTM No. 2 Diesel

**Fuel tank capacity** ..... 227 L (60 U.S. gallons)

## ELECTRICAL SYSTEM

**System voltage** ..... 12 volts

**Grounding** ..... negative

**Batteries**  
 quantity ..... 2  
 capacity, each ..... 12V, 450 amp  
 minimum cranking capacity @ 0°F

**type** ..... SAE J537, Size 24 or 27, top/side post

**Alternator**  
 manufacturer ..... Robert Bosch  
 output ..... 95 amperes

## CAB

**Cab glass** ..... tinted, 6.8 m<sup>2</sup> (73 sq ft)

**Steering column** ..... adjustable pivot and tilt

**Gauges** ..... analog gauges: fuel, volts, water temperature, oil pressure, flotation pressure, speedometer (optional)

## GROUND DRIVE SYSTEM

**Final drive** ..... double chain reduction  
 primary reduction chain ..... No. 50  
 secondary reduction chain ..... No. 80

**Tandem pump** ..... Vickers Model 19, piston

**Motors** ..... Vickers Model MFE19, fixed displacement

**Speed, approximate**  
 FIELD range ..... 0 to 16 km/h (0 to 10 mph)  
 ROAD range ..... 0 to 24 km/h (0 to 15 mph)

## HEADER DRIVE SYSTEM

**Pump** ..... Vickers Model 19, piston

**Motor** ..... Eaton, fixed displacement piston

## HYDRAULIC SYSTEM

**Ground drive system**  
 relief pressure ..... 37 925 kPa (5500 psi)

**Header drive system**  
 relief pressure ..... 34 475 kPa (5000 psi)

**Header lift system**  
 relief pressure ..... 17 237 kPa (2500 psi)

## HEADER FLOTATION SYSTEM

**Type** ..... hydraulic with accumulator,  
 adjustable from cab

**Accumulator charge pressure** ..... 5516 kPa (800 psi)

## AIR CONDITIONING

**System size** ..... 22 000 BTU/hr

**Refrigerant** ..... HFC 134a

**Capacity** ..... 1.8 kg (4.0 LBS)

**Compressor** ..... Sanden 507H  
 displacement ..... 154.9 cc (9.5 CU IN)

## ACCESSORIES

**Lighting** ..... 5 lamps front, rectangular halogen  
 1 lamp rear, rectangular halogen  
 flashers on header and tractor  
 2 lamps side, tail light, turn signals

**Rear view mirrors, right and left** ..... STD

**Controls** ..... Shape-coded handles

## LUBRICATION

**Grease fittings**  
 lubricant ..... CASE IH 251 HEP Lithium Grease

**Wheel bearings**  
 lubricant ..... CASE IH 251 HEP Lithium Grease

**Engine oil**  
 quantity with filter change ..... 10.5 L (11 U.S. quarts)  
 type of fluid ..... Case IH No. 1 Engine Oil,  
 SAE 15W 40, API CE

## Hydraulic system

**quantity**  
 total system ..... 87 L (23 U.S. gallons)  
 reservoir ..... 76 L (20 U.S. gallons)

**type of fluid** ..... Engine Oil, SAE 15W 40

**type of fluid, alternate** ..... Case IH Hy-Tran Plus

*NOTE: Hy-Tran Plus can be added to factory-installed fluid, but to get the full benefit of the qualities of Hy-Tran Plus a complete oil replacement is required.*

## Chaincases, final drive

**quantity, each** ..... 3.8 L (8 pints)

**lubricant** ..... Case IH 135H EP Gear Lube 85W 140

**MODEL** ..... 8870 Windrower Tractor

### DIMENSIONS AND WEIGHTS

Length, overall with header ..... 6543 mm (257.6 IN)  
wheel base ..... 3556 mm (140 IN)

#### Height

top of cab ..... 3308 mm (130.2 IN)  
clearance under walking beam ..... 953 mm (37.5 IN)  
clearance under frame ..... 950 mm (37.4 IN)

#### Width

outside of hubs ..... 3034 mm (119.5 IN)  
with standard tires ..... 3706 mm (145.9 IN)

Tread width, drive tires ..... 3202 mm (126 IN)

#### Tread width, tailwheels

minimum ..... 2144 mm (84.4 IN)  
maximum ..... 3048 mm (120 IN)

#### Weight (approximate)

without header ..... 3629 kg (8000 LB)  
with 14 FT auger header ..... 5420 kg (11 950 LB)  
with 16 FT auger header ..... 5534 kg (12 200 LB)  
with 18 FT auger header ..... 5670 kg (12 500 LB)

### TIRES

Drive wheels ..... 19.5L x 24, bar tread  
wheel bolts ..... 5/8 IN

wheel bolt torque ..... 271 N·m (200 LB-FT)

Tailwheels ..... 14L x 16.1 6-ply implement rib

wheel bolts ..... 9/16-18

wheel bolt torque ..... 165 N·m (120 LB-FT)

Tire pressure ..... drive wheels 137 kPa (20 psi)  
tailwheels 68.9 kPa (10 psi)

### ENGINE

Model ..... Case, 4T-390

Horsepower ..... 110 @ 2500 r/min (rpm)

High idle ..... 2750 r/min (rpm)

Displacement ..... 3.9 L (239 CU IN)

Cooling system capacity ..... 20.8 L (22 U.S. quarts)

Cooling fan diameter ..... 586 mm (23 IN)

Fuel ..... ASTM No. 2 Diesel

Fuel tank capacity ..... 227 L (60 U.S. gallons)

### ELECTRICAL SYSTEM

System voltage ..... 12 volts

Grounding ..... negative

#### Batteries

quantity ..... 2

capacity, each ..... 12V, 450 amp

minimum cranking capacity @ 0°F

type ..... SAE J537, Size 24 or 27, top post

#### Alternator

manufacturer ..... Robert Bosch

output ..... 95 amperes

### GROUND DRIVE SYSTEM

Final drive ..... roller chain/planetary

primary reduction chain ..... No. 50

Tandem pump ..... Vickers Model 19, piston

Motors ..... Vickers Model MVE19, variable displacement

#### Speed, approximate

FIELD range ..... 0 to 16 km/h (0 to 10 mph)

ROAD range ..... 0 to 24 km/h (0 to 15 mph)

### HEADER DRIVE SYSTEM

Pump ..... Vickers Model 19, piston

Motor ..... Eaton, fixed displacement piston

### HYDRAULIC SYSTEM

#### Ground drive system

relief pressure ..... 37 925 kPa (5500 psi)

#### Header drive system

relief pressure ..... 34 475 kPa (5000 psi)

#### Header lift system

relief pressure ..... 17 237 kPa (2500 psi)

### HEADER FLOTATION SYSTEM

Type ..... hydraulic with accumulator,  
adjustable from cab

Accumulator charge pressure ..... 5516 kPa (800 psi)

### CAB

Cab glass ..... tinted, 6.8 m<sup>2</sup> (73 sq ft)

Steering column ..... adjustable pivot and tilt

Gauges ..... fourteen function monitor

analog flotation pressure gage

digital speedometer

### AIR CONDITIONING

System size ..... 22 000 BTU/hr

Refrigerant ..... HFC 134a

Capacity ..... 1.8 kg (4.0 LBS)

Compressor ..... Sanden 507H

displacement ..... 154.9 cc (9.5 CU IN)

### ACCESSORIES

Lighting ..... 5 lamps front, rectangular halogen

1 lamp rear, rectangular halogen

flashers on header and tractor

2 lamps side, tail light, turn signals

Rear view mirrors, right and left ..... deluxe

Controls ..... Shape-coded handles

### LUBRICATION

#### Grease Fittings

lubricant ..... CASE IH 251 HEP Lithium Grease

#### Wheel Bearings

lubricant ..... CASE IH 251 HEP Lithium Grease

#### Engine Oil

quantity with filter change ..... 10.5 L (11 U.S. quarts)

type of fluid ..... Case IH No. 1 Engine Oil,

SAE 15W 40, API CE, CDII/CF-4

#### Hydraulic System

##### quantity

total system ..... 87 L (23 U.S. gallons)

reservoir ..... 76 L (20 U.S. gallons)

type of fluid ..... Engine Oil, SAE 15W 40

type of fluid, alternate ..... Case IH Hy-Tran Plus

*NOTE: Hy-Tran Plus can be added to factory-installed*

*fluid, but to get the full benefit of the qualities of Hy-*

*Tran Plus a complete oil replacement is required.*

#### Chaincases, Final Drive

quantity, each ..... 3.8 L (8 pints)

lubricant ..... Case IH 135H EP Gear Lube 85W 140

#### Planetary Gearbox

quantity, each ..... 1.2 L (2.5 pints)

lubricant ..... Case IH 135H EP Gear Lube 85W 90



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**MODEL** ..... 8880 Windrower Tractor

### DIMENSIONS AND WEIGHTS

Length, overall with header ..... 6500 mm (255.9 IN)  
 wheel base ..... 3556 mm (140 IN)  
 Height  
 top of cab ..... 3388 mm (133.4 IN)  
 clearance under walking beam ..... 1034 mm (40.7 IN)  
 clearance under frame ..... 1042 mm (41.0 IN)  
 Width  
 outside of hubs ..... 3034 mm (119.5 IN)  
 outside of tires ..... 3868 mm (152.3 IN)  
 Tread width, drive tires ..... 3274 mm (128.9 IN)  
 Tread width, tailwheels  
 minimum ..... 2144 mm (84.4 IN)  
 maximum ..... 3048 mm (120 IN)  
 Weight (approximate)  
 without header ..... 4110 kg (9060 LB)  
 with rotary header ..... 6051 kg (13340 L)

### TIRES

Drive wheels ..... 24L x 26 rar tread  
 wheel nuts ..... 5/8-18  
 torque ..... 271 N·m (200 LB·FT)  
 Tailwheels ..... 14L-16.1, 6-ply implement rib  
 wheel bolts and nuts ..... 9/16-18  
 torque ..... 165 N·m (120 LB·FT)  
 Tire pressure ..... drive wheels 137 kPa (20 psi)  
 tailwheels 68.9 kPa (10 psi)

### ENGINE

Model ..... Cummins Turbocharged Diesel 6B T5.9  
 Horsepower ..... 152 @ 2500 r/min (rpm)  
 High idle ..... 2750 r/min (rpm)  
 Displacement ..... 5.9 L (359 CU IN)  
 Cooling system capacity  
 11 fin/in radiator ..... 30.3 L (32 U.S. quarts)  
 7 fin/in radiator ..... 34.1 L (36 U.S. quarts)  
 Cooling fan diameter ..... 584 mm (23 IN)  
 Fuel ..... ASTM No. 2 Diesel  
 Fuel tank capacity ..... 303 L (80 U.S. gallons)

### ELECTRICAL SYSTEM

System voltage ..... 12 volts  
 Grounding ..... negative  
 Batteries  
 quantity ..... 2  
 capacity, each ..... 12 volt, 450 amp  
 minimum cranking capacity @ 0°F  
 type ..... SAE J537, Group Size 24 or 27, top/side post  
 Alternator  
 manufacturer ..... Robert Bosch  
 output ..... 95 amperes

### GROUND DRIVE SYSTEM

Final drive  
 Type ..... roller chain/planetary  
 Chain ..... No. 50  
 Tandem pump ..... Vickers Model 19, piston  
 Motors ..... Vickers Model MVE19, variable displacement  
 Speed, approximate  
 FIELD range ..... 0 to 16 km/h (0 to 10 mph)  
 ROAD range ..... 0 to 24 km/h (0 to 15 mph)

### HEADER DRIVE SYSTEM

Pump ..... Vickers Model PVH98, piston  
 Motors ..... Vickers Model MFE19, fixed displacement

### HYDRAULIC SYSTEM

Ground drive system  
 relief pressure ..... 37 925 kPa (5500 psi)  
 Header drive system  
 maximum pressure ..... 27 580 kPa (4000 psi)  
 Header lift system  
 relief pressure ..... 17 237 kPa (2500 psi)

### HEADER FLOTATION SYSTEM

Type ..... hydraulic with accumulator,  
 adjustable from cab  
 Accumulator charge pressure ..... 6206 kPa (900 psi)

### CAB

Cab glass ..... tinted, 6.8 m<sup>2</sup> (73 sq ft)  
 Steering column ..... adjustable pivot and tilt  
 Gauges .....  
 fourteen function monitor  
 analog flotation pressure gage  
 digital speedometer

### AIR CONDITIONING

System size ..... 22 000 BTU/hr  
 Refrigerant ..... HFC 134a  
 Capacity ..... 1.8 kg (4.0 LBS)  
 Compressor ..... Sanden 507H  
 displacement ..... 154.9 cc (9.5 CU IN)

### ACCESSORIES

Lighting ..... 5 lamps front, rectangular halogen  
 1 lamp rear, rectangular halogen  
 flashers on header and tractor  
 2 lamps side, tail light, turn signals  
 Rear view mirrors, right and left ..... deluxe  
 Controls ..... Shape-coded handles

### LUBRICATION

Grease Fittings  
 lubricant ..... CASE IH 251 HEP Lithium Grease  
 Wheel Bearings  
 lubricant ..... CASE IH 251 HEP Lithium Grease  
 Engine Oil  
 quantity with filter change ..... 15 L (16 U.S. quarts)  
 type of fluid ..... Case IH No. 1 Engine Oil,  
 SAE 15W 40, API CE, CDII/CF-4

### Hydraulic System

quantity  
 total system ..... 98.4 L (26 U.S. gallons)  
 reservoir ..... 76 L (20 U.S. gallons)  
 type of fluid ..... Engine Oil, SAE 15W 40  
 type of fluid, alternate ..... Case IH Hy-Tran Plus  
*NOTE: Hy-Tran Plus can be added to factory-installed  
 fluid, but to get the full benefit of the qualities of Hy-  
 Tran Plus a complete oil replacement is required.*

### Chaincases, Final Drive

quantity, each ..... 3.8 L (8 pints)  
 lubricant ..... Case IH 135H EP Gear Lube 85W 140  
 Planetary Gearbox  
 quantity, each ..... 1.1 L (2.4 pints)  
 lubricant ..... Case IH 135H EP Gear Lube 85W 140

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