

5730 AND 5830 SELF-PROPELLED FORAGE HARVESTERS



OPERATORS MANUAL

5730 AND 5830 SELF-PROPELLED FORAGE HARVESTERS

OME79601 L8 English

JOHN DEERE OTTUMWA WORKS OME79601 L8

(This Manual Replaces OME79057 ISSUE L7)

LITHO IN THE U.S.A.
ENGLISH



Introduction

Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are U.S. customary units and their metric equivalents.

Right-hand and left-hand sides are determined by facing in the direction of forward travel.

Write product identification numbers in the Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

Warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

The tire manufacturer's warranty supplied with your machine may not apply outside the U.S.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

COPYRIGHT® 1988. DEERE & COMPANY, Moline, Illinois. All rights reserved. A John Deere ILLUSTRUCTION™ Manual.

PREVIOUS EDITIONS COPYRIGHT® 1985, 1986, 1987

E03;;5830A -IFCOM 150988

	Page		Page
Identification Views	05-1	Prestarting Checks	30-1
Safety Signs	10-1	Operating the Engine Starting the Engine	35-1
Safety	15-1	"Stop Engine" Indicator	35-3 35-3
Operator's Station		Stopping the Engine	35-4
Speed, Direction, Height and Spout		Cold Weather Operation	35-4
Control Levers	20-1	•	
Hydraulic Brakes	20-1	Operating the Harvester	
Gearshift Lever	20-2	Moving Through the Field	40-1
Parking Brake	20-2		
Ignition Switch	20-3	Wheels and Ballast	
Digital Tachometer	20-3	Wheel Bolt Torque	45-1
Coolant Temperature Gauge	20-4	Service Tires Safely	45-1
Fuel Gauge	20-4	Front Tire Pressure Chart	45-3
Voltmeter	20-5	Rear Tire Pressure Chart	45-4
Indicator:		Harvester as Traction Unit	45-5
Engine Oil Pressure	20-5	Front Weight	45-5
Engine Coolant Temperature	20-5	Rear Weight	45-6
Hydrostatic Transmission Oil Temperature	20-6	Rear Weight Chart (All Countries	
Main Gear Case Temperature	20-6	Except Germany)	45-7
Hydraulic Oil Temperature	20-6	Rear Weight Chart (Germany)	45-8
Parking Brake	20-6	Checking Toe-In	45-9
Air Filter	20-7	Adjusting Toe-In	45-10
Rotary Screen Drive (North America)	20-7	Rear Wheel Spacing Chart	45-11
Hydrostatic Charge Pressure	20-7	Adjusting the Axle	45-12
Main Gear Case Pressure	20-7	Adjusting Hydraulic Steering Cylinder	45-13
Hydraulic Oil Filter	20-8	Front Wheel Spacing	45-13
Rear Wheel Drive	20-8	Front Wheel Spacing Chart	45-14
Metal Detector Switch and Test Button	20-8	Wheel Bolt Dowels	45-15
Adjusting Harvesting Unit Electric	20-9	Installing Wheel Spacers	45-15
Downstop	20-9 20-9	Howarding Units and Attachments	
Horn Switch	20-9 20-9	Harvesting Units and Attachments Corn Head Units	50-1
Turn Signal and Warning Lamp Switches	20-9	Mower Bar Unit	50-1 50-1
Light Switch	20-10	4-Row Stalkers (North America)	50-1
Windshield Wiper (Upper)	20-10	2-Row Row-Crop Unit	50-1 50-2
Auxiliary Wiper (Lower)	20-11	3-Row Row-Crop Unit	50-2 50-2
Air Conditioning	20-11	4-Row Row-Crop Unit	50-2
Air Conditioning High Pressure Switch	20-11	Pickup Unit	50-2 50-2
Air Conditioning Low Pressure Switch	20-11	4-Meter Pickup Unit (Outside North	30-2
Heater	20-12	America)	50-3
Steering Column Adjustment Pedal	20-12	Kernel Processor	50-3
Seat Adjustments	20-12	SPOUT-TRAK Aiming Control (North	
Adjusting Armrest, Backrest, and		America)	50-3
Lumbar Support	20-13	Power Rear Wheel Drive	50-3
Console and Dome Lights	20-13	Front Wheel Spacers	50-4
Hydraulic Outlet Control Switches	20-14	Hydraulic Outlet	50-4
		Air Conditioner (Outside North America)	50-4
Break-in	25-1	,	

		•	
	Page		Page
Auxiliary Lighting Package (North		Chains	60-6
America)	50-4		
In-Block Coolant Heater	50-5	Lubrication and Maintenance	
Heavy-Duty and Extra Heavy Duty		Follow Recommended Intervals	65-1
Float Springs	50-5	Observe Lubrication Symbols	65-2
Suitcase Weights	50-5	Lubrication and Maintenance	
Radio (Not Available for Germany)	50-6	As Required	65-3
Lower Windshield Wiper (North America)	50-6	Every 10 Hours	65-4
Feed Roll Pan	50-6	Every 50 Hours	65-7
Horizontal Discharge Spout Extension		Every 100 Hours	65-8
and Brace	50-6	Every 200 Hours	65-11
Precleaner Grille	50-7	Every 500 Hours or Annually	65-13
Kernel Processor Recirculating Screens	50-7	Annually	65-16
Recutter Screen, Spout Cover and		•	
Spout Brace	50-9	Installing and Removing Harvesting Units	
Tall Crop Dividers	50-10	Harvesting Unit Checklist	70-1
Grass Fan Blades	50-10	Drive Chain Size Chart	70-2
6-Row Row-Crop Unit (Outside North		Attaching Harvesting Units	70-2
America)	50-10	Removing Harvesting Unit	70-4
		Adjusting Harvesting Unit Float	
Transporting		and Position	70-5
Transport Information	55-1	Preparing Cutterhead Housing for	
Secure Cab Roof	55-1	Use With Ear Corn Head	70-8
Antenna Storage	55-2	Preparing to Install Heavy-Duty	
Turn Signal and Warning Lamp Switches	55-2	Float Springs	70-10
Swing-Out Lights (Outside North		Converting Heavy-Duty Float Springs	
America)	55-2	for 7-Ft Pickups	70-11
"D" Panel (France)	55-3	Adjusting Heavy-Duty Float System	70-12
Beacon (Italy and Germany-with 28L		Preparing to Install Extra Heavy-Duty	
Tires)	55-3	Float Springs	70-15
Transport Panel (Italy and Germany)	55-3		
Transport Switch (Germany and Italy)	55-4	Cutterhead Housing	
Front Guard (Germany)	55-4	Length-of-Cut	75-1
Transport Guard (Germany)	55-4	Adjustment for Length of Cut	75-1
		Adjusting Length-of-Cut Chain	75-2
Fuels and Lubricants		Sharpening Cutterhead Knives	75-3
Diesel Fuel Specifications (North		Adjusting Stationary Knife	75-6
America)	60-1	Removing Stationary Knife	75-8
Fuel (Outside North America)	60-1	Checking Stationary Knife for Wear	75-9
Storing and Handling Fuel	60-2	Installing Stationary Knife	75-10
Filling Fuel Tank	60-2	Correcting Knife Adjuster End Play	75-12
Diesel Engine Oil	60-2	Recutter Screen Usage	75-13
Hydrostatic Drive Oil	60-3	Kernel Processor Recirculating Screens	75-14
Gear Oil	60-3	Installing Recutter Screen Frame	75-15
Hydrostatic Drive Oil	60-4	Installing Recutter Screen	75-16
Hydrostatic Drive System Outside		Installing Recirculation Screen	75-16
the United States and Canada	60-4	Adjusting Recutter or Recirculating	
Extreme Pressure Grease	60-5	Screen	75-19
Hydraulic Brakes	60-5	Knife Bolt Torque	75-20
Lubricant Storage	60-5	Replacing or Adjusting Partial Set	
Alternature Lubricants	60-6	of Cutterhead Knives	75-21

	Page		Page
Replacing Complete Set of Cutterhead	•	Functional Check for SPOUT-TRAK	_
Knives	75-22	Aiming	95-2
Replacing Clamp Bars		Adjusting:	00 <u>~</u>
Replacing Knife Retainer Bar	75-24	SPOUT-TRAK Aiming Magnetic Pickup	95-3
Leveling Knife Sharpener	75-25	Wagon Tongue Clevis	95-3
Adjusting Knife Gauge Bar	75-26	Spout Rotation for Proper Working	000
Replacing Knife Sharpening Stone	75-26 75-26	Width	95-4
Adjusting:	75-20	Spout Alignment for Uniform Wagon	55 T
	75-27	Loading	95-6
Smooth Roll Scraper	75-27 75-28	Spout Rotary Potentiometer	95-6
	75-28 75-28	Tongue Follower Rotary Potentiometer	95-8
Feed Roll Drive Case Chain	75-20 75-29	SPOUT-TRAK Aiming Troubleshooting	95-9
Slip Clutch Alert	75-29 75-30	Shoot-mak Aiming moduleshooting	33-3
Feed Roll Drive Shift Lever	75-30	Engine Systems	
Feed Roll and Harvesting Unit Drive	75 20	* -	100-1
Lever	75-30	Clean Engine Compartment	100-1
Replacing Wear Liners	75-31	Fuel System	100-1
Adjusting Feed Roll Springs	75-31	Adjusting Throttle	
Removing Cutterhead and Feed Roll	75.00	Adjusting the Fuel Shut Off Cable	100-2
Assembly	75-32	Storing Fuel	100-2
Adjusting Feed Roll Gear Case Drive	75.07	Filling Fuel Tank	100-2
Coupler		Bleeding Fuel System	100-3
Installing Lower Feed Roll Pan	75-38	Fuel Transfer Pump	100-4
		Inspecting and Cleaning Fuel System	100-4
Metal Detector		Replacing Fuel Filter Elements.	100-5
Operating IRON-GARD™ Metal		Fuel Injectors	100-5
Detector	80-1	Replacing Engine Oil and Filter,	400.0
Operating the Metal Detector Lockout	80-2	Bypass Filter	100-6
When Metal is Detected	80-2	Cold Weather Operation	100-7
Adjusting Upper and Lower Stop Pawls	80-3	Antifreeze	100-8
Metal Detector Test	80-4	General Cooling System Information	100-9
		Radiator Cap	100-9
Auger		J J ,	100-10
Replacing Auger Drive Shear Bolts	85-1		100-11
Auger Doors (Double Auger Conveyor)	85-1	·	100-11
Removing Auger Assembly (Single		Cleaning the Radiator Condenser,	
or Double)	85-1	S. 000.00, and radamin 200.00	100-12
			100-13
Blower and Discharge Spout			100-13
Removing Fan Doors	90-1	· · ·	100-14
Grass Fan Blades	90-1		100-14
Adjusting Fan Blades	90-1		100-14
Install:			100-15
Horizontal Extension, Electric Spout			100-15
Motor, and Lamp	90-2	Inspecting Primary Element 1	100-16
Vertical Spout Extension (Option)	90-3		
Spout Brace	90-4	Electrical Systems	
Spout Cover (Option)	90-5	General Electrical System Information	105-1
Horizontal Spout Extension and Brace		Checking Voltage	105-1
(NA)	90-5	Main Circuit Breakers	105-2
Auxiliary Spout on Rear Lamp (Option)	90-6	Console Circuit Breakers	105-3
- , , , , , ,		Auxiliary Accessories	105-4
SPOUT-TRAK			
SPOUT-TRAK Aiming Operation	95-1		

Page	Page
Accessory Relay	Adjusting Parking Brake
Diagnosing Electrical Malfunctions 105-5	
General Battery Information 105-6	Cab Functions
Servicing Batteries 105-6	Opening Cab Roof
Installing Batteries 105-8	Removing Cab Filters 120-2
Using a Booster Battery 105-9	Checking Air Conditioning Refrigerant
Alternator and Voltage Regulator 105-9	Level
90-Amp John Deere Alternator Diagram 105-9	High Pressure Switch 120-4
Safeguarding Alternator and Regulator 105-10	Tightening Compressor Drive Belt 120-5
Adjusting Fan and Alternator Belt	Checking Heater and Air Conditioner
Tension	Trouble Areas 120-5
General Starter Information 105-11	
John Deere Starter	Troubleshooting
Starter Checklist	Main Drive
Neutral Start Switch 105-13	Cutterhead and Feed Rolls
Adjusting the Parking Brake (Indicator	Knife Sharpener
Lights and Alarm Switch) 105-13	Stationary Knife Adjustment
General Feed Roll Electromagnetic	Engine
Clutch Information	Electric Downstop
Checking Defective Feed Roll Electromagnetic	Lift and Float System
Clutch	Power Train to Ground Drive 125-16
Burnish Electric Clutch	Hydrostatic System
Electric Spout Cap Motor	
Electric Rotary Air Screen Motor and Switch	······································
Electric Downstop	Spout Delivery
Electric Downstop 100-10	Hydraulic System
Hydraulic Systems	Electric Spout Cap Motor
Hydraulic System General Information 110-1	Electrical
Hydraulic and Steering System Diagram 110-2	Digital Display Tachometer Speed
Adjusting Lift or Lowering Rate	Monitoring System 125-30
of Harvesting Unit	Operator's Cab Systems 125-31
Rear Hydraulic Outlet	
Adjusting Pump Drive Belt Tension 110-5	Storage
Main Gear Case Cooling Circuit 110-6	End of Season Service 130-1
·	Beginning of Season Service 130-3
Power Train and Brakes	
Tightening Bearing Locking Collars 115-1	Crime Prevention Tips 135-1
Adjusting:	•
Speed and Direction Control Lever 115-1	Specifications
Force on Speed and Direction Control	
Lever	Index
Gearshift Linkage	
Fan and Cutterhead Drive Gear Case 115-3	
Adjusting Main Clutch	
Adjusting Fan and Cutterhead Clutch	
Lever	
Adjusting Cutterhead Belt	
Adding Brake Fluid to Master Cylinder 115-7	
Adjusting Master Cylinder Push Rods 115-7	
Bleeding the Brakes	•

Identification Views

WORLDWIDE PUBLICATION

This publication is applicable worldwide. Items unique to certain areas of the world will be described in each section.

E03;;583ID A 050685

NORTH AMERICA



5830 Forage Harvester with 4-Row Row-Crop.

1UA;E26238 E03;;583ID B 050685

OUTSIDE NORTH AMERICA



5730 Forage Harvester with 4-Row Row-Crop.

1UA;E26239 E03;;583ID C 050685

Safety Signs

READ SAFETY SIGNS CAREFULLY

Carefully read and follow all **CAUTION** and **WARNING** safety signs.

Keep safety signs in good condition. Replace missing or damaged safety signs.

E03;;583Z A 060685



10-1

Thank you so much for reading.

Please click the "Buy Now!"

button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email: ebooklibonline@outlook.com