

**5210, 5310,
5410 and 5510
Tractors**

**John Deere Augusta
OMRE71736 Issue I7**

LITHO IN 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 and safety signs on your machine may also be available in other languages. (See your John Deere dealer to order.)

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 given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or 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. 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.

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.

IDENTIFICATION VIEWS



-UN-26AUG97

LV1701

John Deere 5310 Tractor—Open Station



-UN-26AUG97

LV1702

John Deere 5510 Tractor—Cab

Introduction

Contents

	Page		Page
Safety	05-1	Prestarting Checks	40-1
Safety Signs	10-1	Operating the Engine	
Controls and Instruments	15-1	Before Starting the Engine	45-1
Lights		Starting the Engine	45-2
Light Switch Positions	20-1	Check Instruments After Starting	45-3
Using Head Lamps	20-1	Oil Pressure Indicator	45-3
High Beam Indicator	20-2	Charging System Indicator	45-3
Tail Lamp(s)	20-2	Air Restriction Indicator	45-4
Using Fender Lamps (5410 and 5510)	20-3	Coolant Temperature Gauge	45-4
Using Rear Flood Lamp—Open Station	20-3	Watch Fuel Level	45-4
Adjusting Rear Flood Lamp—Open Station	20-4	Changing Engine Speeds	45-5
Flood Lamps—Cab	20-4	Warming Up Engine	45-5
Using Warning Lamps	20-5	Restart Stalled Engine	45-6
Using Turn Signals	20-6	Avoid Idling Engine	45-6
Seven-Terminal Outlet (If Equipped)	20-7	Observe Engine Work and Idle Speeds	45-6
Operator's Platform (Open Station)		Work With Speed/Hour Meter	45-7
Operating Foldable ROPS	25-1	Stopping the Engine	45-7
Using Seat Belt	25-2	Cold Weather Starting Procedure	45-8
Selecting Seat Position	25-2	Using Booster Battery	45-9
Adjusting Ride Comfort	25-3	Driving the Tractor	
Adjusting Steering Wheel Tilt—If Equipped	25-4	Operator Training Required	50-1
Operator's Station (Cab)		Avoid Contact With Pesticides	50-1
Using Seat Belt	30-1	Driving on Public Roads	50-2
Selecting Seat Position	30-1	Use Caution on Hillsides	50-4
Adjusting Ride Comfort	30-2	Collar Shift or SyncShuttle™ Transmissions	
Adjusting Steering Wheel Tilt	30-3	Operating	50-5
Adjusting Blower Speed	30-3	Shifting—Collar Shift	50-5
Controlling Temperature	30-4	Shifting—SyncShuttle™	50-6
Operating Wiper(s)	30-4	PowerReverser™ Transmission	
Accessory Electrical Outlet	30-4	Operating	50-7
Radio	30-5	Shifting	50-8
Dome Lamp	30-5	Selecting a Gear	50-10
Break-In Period	35-1	Creeper Gear Operation (Optional)	50-10
		Brakes	50-11
		Differential Lock	50-11
		Front-Wheel Drive	50-12

Continued on next page

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

OMRE71736 17-19-10SEP97

COPYRIGHT© 1997
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION Manual

Contents

	Page		Page
Stopping Tractor		Selecting PTO Speeds (SyncShuttle™ Transmission)	65-4
Collar Shift or SyncShuttle™ Transmission	50-13	Operating Tractor PTO	65-4
PowerReverser™ Transmission	50-14	Adjusting PTO Clutch Operating Rod	65-6
Rockshaft and 3-Point Hitch		Ballast	
Match Tractor Power to Implement	55-1	Planning for Maximum Productivity	70-1
3-Point Hitch Components	55-1	Selecting Ballast Carefully	70-1
Rockshaft Control Levers	55-2	Matching Ballast to Load Work	70-1
Using Rockshaft Position Control	55-3	Checking for Correct Ballast	70-2
Setting Position Control Lever Stop	55-4	Measuring Wheel Slip—Manually	70-3
Using Draft Control	55-5	Ballast Limitations	70-4
Adjusting Rockshaft Speed-of-Drop	55-6	Ballasting	
Preparing Implement	55-6	Front End for Transport	70-4
Converting Hitch Category	55-7	Two-Wheel Drive Tractors	70-5
Positioning Center Link	55-8	MFWD-Equipped Tractors	70-5
Attaching Implements to 3-Point Hitch	55-9	Determining Maximum Ballast	
Adjusting Hitch Side Sway	55-11	Rear	70-6
Leveling The Hitch	55-12	Front	70-6
Adjusting Lateral Float	55-14	Using Cast Iron Weights	70-7
Adjusting Rockshaft Control Lever Friction	55-14	Installing Rear Cast Iron Weights	70-7
Warming Hydraulic System Oil	55-14	Using Liquid Weight	70-8
		Using Implement Codes	70-9
Remote Hydraulic Cylinders		Wheels, Tires and Treads	
Use Correct Hose Tips	60-1	Service Tires Safely	75-1
Control Lever and Coupler Identification	60-1	Check Implement-to-Tire Clearance	75-1
Installing Remote Outlet Oil Manifolds	60-2	Tire Inflation Pressure	
Connecting		Check	75-2
Cylinder Hoses	60-2	Chart	75-3
Hose Under Pressure	60-3	Selecting Front Tire Rolling Direction	75-4
Single-Acting Cylinder	60-4	Tighten Wheel/Axle Hardware Correctly	75-4
Correcting Reversed Cylinder Response	60-4	Tighten Hardware	
Neutral Lever Position	60-4	Adjustable Front Axle	75-5
Extending/Retracting Cylinder		MFWD Axle	75-5
#1 and #2 SCV	60-5	Rear Axle	75-6
#3 SCV	60-5	Observe Rear Wheel Tread Width	
Using Implement Float (#1 SCV Only)	60-6	Limitations	75-6
Adjusting Cylinder Stop	60-6	Tread Settings	
Power Beyond Connections	60-7	Two-Position Steel Wheels	75-7
Loader Joystick Functions	60-9	Multi-Position Rear Wheels	75-8
Disconnecting Cylinder Hoses	60-10	Multi-Position MFWD Wheels	75-10
		Adjustable Front Axle	75-11
Drawbar and PTO		Adjust Front Axle Tread Width	75-12
Drawbar Load Limitations	65-1	Fender Settings (MFWD Axle)	75-13
Selecting Drawbar Position	65-1	Toe-In	
Adjusting Drawbar Length	65-1	Checking—Two-Wheel Drive Tractor	75-14
Using Swinging Drawbar	65-2	Adjusting—Two-Wheel Drive Tractor	75-14
Attaching PTO-Driven Implement	65-2	Checking—MFWD Tractor	75-15
		Adjusting—MFWD Tractor	75-15

Continued on next page

Contents

	Page		Page
Set MFWD Steering Stops Turning Radius . . .	75-16	Check for Loose Hardware	100-5
Use Correct Tire Combinations	75-17	Service—100 Hours	
Tire Compatibility Charts		Change Oil and Filter	105-1
5210 and 5310	75-18	Replace Transmission-Hydraulic Filter	105-1
5410 and 5510	75-19		
Transporting		Service—250 Hours	
Use Safety Lights and Devices	80-1	Service Air Cleaner	110-1
Use a Safety Chain	80-1	Inspect and Adjust Alternator/Fan Belt (5210 and 5310)	110-1
Driving on Roads	80-2	Inspect and Adjust A/C Compressor Belt (Cab—5210 and 5310)	110-2
Transport on Carrier	80-7	Lubricate 3-Point Hitch	110-2
Towing Tractor	80-7	Check Neutral Start System	110-3
		Clutch Pedal	
		Free Play (Collar Shift and SyncShuttle™ Transmissions)	110-4
Fuels, Lubricants, and Coolant		Adjust Linkage (PowerReverser™ Transmission)	110-5
Fuel Storage	85-2	Clean Operator Enclosure Air Filters	110-6
Cold Weather Operation	85-2		
Diesel Fuel	85-3	Service—500 Hours	
Fill Fuel Tank	85-4	Replace Fuel Filter	115-1
Alternative and Synthetic Lubricants	85-5		
Lubricant Storage	85-5	Service—600 Hours	
Diesel Engine Oil	85-6	Change Oil in MFWD Axle	120-1
Oil Filters	85-6	Clean Engine Crankcase Vent Tube	120-2
Diesel Engine Coolant	85-7	Pack Front Wheel Bearings (Adjustable Front Axle)	120-2
Liquid Coolant Conditioner	85-8	Check Hoses and Hose Clamps	120-3
Transmission/Hydraulic Oil	85-9	Lubricate Rear Axle Bearings	120-3
Hydraulic-Transmission Filter Element	85-9	Check Engine Idle Speeds	120-3
Gear Oil	85-10	Check Front Axle Pivot Pin	120-4
Grease	85-10	Adjust Engine Valve Clearance	120-4
Lubrication and Maintenance		Service—1200 Hours	
Clean Vehicle of Hazardous Pesticides	90-1	Change Transmission-Hydraulic Oil and Filter	125-1
Observe Service Intervals	90-2	Clean Transmission-Hydraulic Pickup Screen	125-2
Use Correct Lubricant	90-2		
Break-In Service	90-3	Service—Annually	
Service Intervals	90-4	Change Engine Oil and Filter	130-1
		Replace Air Cleaner Elements	130-2
Service—10 Hours			
Check Engine Oil Level	95-1	Service—2 Years/2000 Hours	
Check Coolant Level	95-2	Flush Cooling System and Replace Thermostat	135-1
Drain Water and Sediment From Fuel Tank	95-2		
Lubricate	95-3		
Service—50 Hours			
Transmission-Hydraulic System Oil Level	100-1		
Check MFWD Axle Oil Level	100-1		
Clean and Check Battery	100-2		
Inspect Tires	100-3		
Lubricate			
Front Axle Pivot Pin(s)	100-4		
Steering Spindles	100-4		

Continued on next page

Contents

	Page		Page
Service—As Required			
Service Air Cleaner	140-1	Servicing Air Conditioner (Cab)	145-30
Adjust Throttle Friction	140-1	Locating Fusible Link	145-31
Adjust 540E PTO Throttle Limiter (SyncShuttle™ Transmission)	140-1	Fuses	
		Locating	145-31
		Size and Function—Tractor	145-32
		Size and Function—Cab	145-33
		Head Lamps	
		Aiming	145-33
		Adjusting	145-34
		Replace Bulb	145-34
		Warning/Tail Lamp(s)	
		Replace Bulb—Open Station	145-35
		Replace Warning Lamp Bulb—Cab	145-35
		Replace Tail Lamp Bulb—Cab	145-36
		Flood Lamp(s)	
		Replace Bulb—Open Station	145-36
		Replace Bulb—Cab	145-37
		Replace Fender Lamp Bulb (5410 and 5510)	145-37
		Replace Dome Lamp Bulb (Cab)	145-37
		Check Tires	145-38
		Tubeless Tire Repair	145-38
		Keep ROPS Installed Properly	145-39
		Troubleshooting	
		Engine	150-1
		Transmission	150-4
		Hydraulic System	150-5
		Brakes	150-5
		Rockshaft and Quick-Coupler 3-Point Hitch	150-6
		Remote Hydraulic Cylinders	150-7
		Electrical System	150-8
		Heater and A/C System (Cab)	150-10
		Wiper(s), Flood Lamps, Dome Lamp and Radio (Cab)	150-13
		Storage	155-1
		Specifications	
		Machine Specifications	160-1
		Machine Dimensions	160-4
		Permissible Load Specifications	160-6
		Ground Speed Estimates	
		Collar Shift and SyncShuttle™ Transmission	160-7
		PowerReverser™ Transmission	160-8
		Bolt and Cap Screw Torque Value Charts	
		Metric	160-9
		Inch	160-10
			Continued on next page

Contents

	Page
Battery Warranty	160-11
Identification Numbers	
Identification Plates	165-1
Record Serial Numbers	
Tractor	165-1
Adjustable Front Axle	165-1
MFWD Axle	165-2
Engine	165-2
Transmission	165-2
Lubrication Maintenance Record Charts . .	170-1
Crime Prevention Tips	175-1
Index	

**Thank you very much
for your reading.**

**Please click here and go
back to the website.**

**Then, you can
download the complete
manual instantly.**

No waiting.