

5075M, 5090M, 5100M, and 5115M (Stage V) Tractors Operator's Manual (European Edition)



OPERATOR'S MANUAL

5M Series Tractors (European Edition)

OMTR116808 ISSUE G1 (ENGLISH)





Introduction

Foreword

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 or statement 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.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

DX,IFC1-19-03APR09

Emissions Performance and Tampering

Operation and Maintenance

The engine, including the emissions control system, shall be operated, used, and maintained in accordance

with the instructions provided in this manual to maintain the emissions performance of the engine within the requirements applicable to the engine's category/ certification.

Tampering

No deliberate tampering with or misuse of the engine emissions control system shall take place; in particular with regard to deactivating or not maintaining an exhaust gas recirculation (EGR) or a DEF dosing system. Tampering with an engine's emissions control system will void the European Union (EU) type approval and applicable emissions-related warranties.

DX,EMISSIONS,PERFORM-19-12JAN18

Page	Page
General Information	Service Tires Safely
Product View 00-1	Service Front-Wheel Drive Tractor Safely 00A-16
Trademarks	Tightening Wheel Retaining Bolts/Nuts 00A-16
Glossary of Terms	Avoid High-Pressure Fluids
Machine Overview	Do Not Öpen High-Pressure Fuel System 00A-17
iviaci iiile Overview	Store Attachments Safely
	Decommissioning — Proper Recycling and
Safety Precautions	Disposal of Fluids and Components 00A-17
Recognize Safety Information	Diopodal of Flatad and Components
Understand Signal Words	Onfate Olima
Follow Safety Instructions	Safety Signs
Prepare for Émergencies	Replace Safety Signs
Wear Protective Clothing	Operator's Manual
Protect Against Noise	Use Seat Belt
Handle Fuel Safely—Avoid Fires 00A-2	Passenger Seat—Cab
Fire Prevention	Riders—OOS
In Case of Fire	Hitch Remote Control
Avoid Static Electricity Risk When Refueling 00A-3	ROPS in Normal Position—OOS
Use Foldable ROPS and Seat Belt Properly 00A-4	Hot Surface
Stay Clear of Rotating Drivelines 00A-4	Pick-Up Hitch
Use Steps and Handholds Correctly 00A-5	
Read Operator's Manuals for ISOBUS	Controls and Instruments (Cab)
Controllers 00A-5	Front Console Controls
Use Seat Belt Properly 00A-5	Foot-Operated Controls
Vibration 00A-5	Right Console Controls 10A-1
Operating the Tractor Safely 00A-6	Transmission Controls
Avoid Backover Accidents 00A-7	Multi-Function Lever/Mid-SCV Controls 10A-4
Limited Use in Forestry Operation 00A-7	Rear SCV Controls
Operating the Loader Tractor Safely 00A-7	Rear Hitch Controls
Keep Riders Off Machine 00A-8	PTO Controls
Passenger Seat 00A-8	Heat and Air Conditioning Controls
Use Safety Lights and Devices 00A-8	riodi dila 7 ili Gorialioning Goria dia 111111111111111111111111111111111
Towing Trailers/Implements Safely 00A-8	Controls and Instruments (IOOS)
Use Caution on Slopes, Uneven Terrain, and	Controls and Instruments (IOOS) Front-Console Controls
Rough Ground 00A-9	
Freeing a Mired Machine 00A-9	Foot Operated Controls
Avoid Contact with Agricultural Chemicals 00A-10	Console Controls
Handle Agricultural Chemicals Safely 00A-10	Transmission Controls
Handling Batteries Safely 00A-11	
Avoid Heating Near Pressurized Fluid Lines 00A-12	Rear SCV Controls
Remove Paint Before Welding or Heating 00A-12	Rear Hitch Controls
Handle Electronic Components and Brackets	Rear PTO Controls
Safely 00A-12	
Practice Safe Maintenance	Engine Operation
Avoid Hot Exhaust	Required Machine Stop Warning 20-1
Clean Exhaust Filter Safely	Engine Fuel System and Power Rating 20-1
Work In Ventilated Area	Check Engine Indicators and Gauges 20-2
Support Machine Properly	Operate Key Switch
Prevent Machine Runaway	Start Engine
Park Machine Safely	Cold-Weather Start 20-4
Transport Tractor Safely	Run Engine 20-5
Service Cooling System Safely	Engine Speeds and Operational Procedures 20-6
Service Accumulator Systems Safely	Stop Engine
	Stop Engine

Continued on next page

Original Instructions. 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.

COPYRIGHT © 2021 DEERE & COMPANY Moline, Illinois All rights reserved.

	Page		Page
Engine Block Coolant Heater	20-7	Transmission Operation	
Engine Fuel Heater	20-8	Electrohydraulic Transmission System	
		Indicator	50A-1
Air Intake, Fuel, Coolant, and Exhaust		16/16 Transmission	
Operation		32/16 Transmission	
Aftertreatment Indicators Overview	30-1	Reverser Modulation	
Selective Catalytic Reduction (SCR) System		Creeper Gear Operation	50A-3
Overview	30-3	16/16 Transmission Ground Speed Chart	50A-4
EU Qualified Emergency Use — SCR Derate	30 4	32/16 Transmission Ground Speed Chart	
Override Option	30-4	16/16 Creeper Ground Speed Chart	
Gauges	30-5	32/16 Creeper Ground Speed Chart	50A-6
Fill Fuel Tank		Correction Factors for Other Tire Sizes	50A-6
Fill Diesel Exhaust Fluid (DEF) Tank			
Reduce Fuel Consumption	30-6	MFWD and Front Axle Operation	
Exhaust Filter Cleaning	30-7	Mechanical Front-Wheel Drive (MFWD On/	50D 4
Exhaust Filter System Overview		Brake Assist)	50B-1
Automatic (AUTO) Exhaust Filter Cleaning Disabled Exhaust Filter Cleaning			
Parked Exhaust Filter Cleaning	30-9 80-10	Differential and Rear Axle Operation	F00 4
Service Exhaust Filter Cleaning	30-11	Differential Lock	50C-1
· ·		Power Take Off (PTO) Operation	
Electrical and Lighting Operation		Match Machine Power to Implement	50D-1
Disconnect Battery Connection Cab (Pre-		PTO Guard	50D-1
Installed)	40-1	PTO Shield	
Disconnect Battery Connection (Cab and		PTO Drive Shaft Shield	50D-2
100S)		Select PTO Drawbar Position	
Light Switch		Attach PTO Driven Implement	
Headlights	40-2	Ground Drive PTO	50D-3
Loader Lights	40-3	Select Correct PTO Speed	50D-4
Bucket Lights Tail and Brake Lights	40-3 40-4	Operate Rear PTO	50D-5
Turn Signals		Operate Rear Remote PTO	50D-6
Hazard Lights	40-5	Operate Front PTO	
Beacon Lights		PTO Alarm	50D-7
Front Worklights		0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
Rear Worklights	40-9	Steering and Brake Operation	60.4
License Plate Lights	40-9	Trailer Brake Test	
Dome Light4	0-10	Service Brakes	
Right-Hand Console Light4	0-10	Hydraulic Trailer Brakes	60-2
Horn	10-11	Air Trailer Brakes	
Backup Alarm (If Equipped)		7 III Trailor Branco	. 00 0
Front Wiper and Washer		Hydraulics Operation	
Rear Wiper and Washer4 Auxiliary Input and USB Port4	10-12 10-12	Warm Transmission/Hydraulic Oil	70-1
Bluetooth® Microphone	IN-12	Open Center Hydraulics	70-1
Speakers4		open center rigardance	
Radio Antenna4	0-13	Hitch and Drawbar Operation	
Satellite Module and Antenna4	0-13	Match Machine Power to Implement	70Δ_1
Implement Connector4		Rear Hitch Controls	
Power Outlet 4	0-14	Rear Hitch Components	
Convenience Outlets4	0-14	Operate Mechanical Position and Draft	
Service ADVISOR™ Connector4		Control	
Operator Presence	0-15	Operate Mechanical Rate-of-Drop Knob	
JĎLink™4	·U-15	Electrohydraulic Hitch System	70A-8
		Prepare Implement	0A-12
Displays, Software, and Electronics		Hitch Conversion - Category II to I	UA-13
Operation		Position Center Link	
Primary Display	41-1	Adjust Lateral Float	
		Height-Adjustable Trailer Hitch	
Drivetrain Operation		Operate Pickup Hitch 7	ΌΔ-13
Drivetrain Information		Attach Implement to Ball-End Rear Hitch 7	0A-18
Off-Level Operation	50-1	Level Ball-End Hitch	

Page		Page
Attach Implement to Hook-End Rear Hitch 70A-20	Monitor Mounts	90-16
Level Hook-End Hitch	Rear Window Cable Routing	90-16
Adjust Hitch Side Sway	Coat Hook	90-16
Stabilizing System	Ash Tray and Cigarette Lighter	00 17
	Operate Premium Radio	00 17
Adjusting Spreading Dimensions	Set Radio Clock	00-17
Quick Coupler	Set Radio Clock Set Radio Alarm	00 10
Front Hitch Components		
Front Implement Connection	Compact Disc (CD) Mode	90-20
Front Hitch and Coupler Operation	iPod Mode	
Drawbar Settings	USB Mode	
Clevis Drawbar	Weather Band	90-22
Drawn Implement Connection		
Selective Control Valve Operation	Transport and Storage Keep Machines Secure	100-1
Rear SCV Controls and Components 70B-1	Deliver Safely	100-1
Mid SCV Controls and Components	Road Transportation	100-1
Mid-SCV Controls and Components	Taving Loads	100-2
Front Hitch and SCV	Towing Loads	100-2
Connect Hydraulic Hoses	Tow Machine	100-3
Connect to Rear SCVs	Front Tow Points	
Connect to Mid-SCVs	Rear Tow Points	100-5
Correct Reversed Cylinder Response 70B-5	Machine Storage	100-5
Single-Acting Cylinders 70B-5	Remove Machine from Storage	100-6
Implements Requiring Large Volumes of Oil 70B-5		
Set SCV Detents	Maintenance Intervals	
Operate Hydraulic Motor with Rear SCV 70B-6	Maintain Daily Before Start-Up	200-1
Operate Power Beyond with Rear SCV 70B-7	Maintenance Interval Chart	200-2
Operate Loader with Rear SCV 70B-8	Maintenance interval Orlant	200-2
Adjust Flow Control 70B-8		
Power Beyond 70B-9	Fuels, Lubricants, and Coolants	
Case Drain	Alternative and Synthetic Lubricants	200A-1
Motor Return 70B-9	Diesel Engine Coolant (engine with wet	
Fast Return-to-Sump70B-10	sleeve cylinder liners)	200A-1
Rear SCV Oil Collection	Operating in Warm Temperature Climates	200A-2
Treat 30 V Sil Solicotion	John Deere COOL-GARD™ II Coolant	0004.0
Additional Equipment	Extender	200A-2
Toolbox 80B-1	Concentrate	2004.2
Front Loader 80B-1	Testing Coolant Freeze Point	2007-2
Lockable Fuel Fill Cap 80B-2	Diesel Exhaust Fluid (DEF) — Use in	200A-3
Chock Block 80B-2		
Hood	Selective Catalytic Reduction (SCR)	2004.2
	Equipped Engines	200A-3
On another Otation On anotice	Disposal of Diesel Exhaust Fluid (DEF)	200A-4
Operator Station Operation	Refilling Diesel Exhaust Fluid (DEF) Tank	200A-4
Cab Classification	Storing Diesel Exhaust Fluid (DEF)	200A-4
Avoid Contact with Agricultural Chemicals -		200A-5
Cab Category 1, 2, 3, and 4 According to	Diesel Engine Oil Service Interval for	
EN 15695-1 90-1	Operation at High Altitude	200A-5
Clean Vehicle of Hazardous Pesticides 90-2	Diesel Engine Oil — Interim Tier 4, Final Tier	
Emergency Exit 90-2		200A-6
Doors 90-3	Engine Oil and Filter Service Intervals —	
Grab Handles 90-4	Interim Tier 4, Final Tier 4, Stage IIIB,	
Windows 90-4	Stage IV, and Stage V Engines	200A-6
Window Shades 90-5	John Deere Break-In Plus™ Engine Oil —	
Mirrors 90-5	Interim Tier 4, Final Tier 4, Stage IIIB,	
Roll Over Protective System (ROPS) 90-6	Stage IV, and Stage V	200A-7
Cab Seats 90-6	Oil Filters	200A-7
OOS Seats	Fuel Filters	
Adjust Seat Armrests 90-11	Diesel Fuel	
Passenger Seat	Handling and Storing Diesel Fuel	2007-0
Steering Wheel	Lubricity of Diesel Fuel	2007-0
Heat, Defrost, and Air Conditioning90-12	Testing Diesel Fuel	2007-8
	Biodiesel Fuel	200A-8
Heat, Defrost, and Air Conditioning	Minimizing the Effect of Cold Weather co	200A-9
Storage Drawer (If Equipped)	Minimizing the Effect of Cold Weather on	2004 40
General Storage	Diesel Engines	
Field Office™90-15	Supplemental Diesel Fuel Additives	∠UUA-11

Page		Page
Multipurpose Extreme Pressure (EP) Grease .200A-12	Electrical and Lighting Maintenance	
Mixing of Lubricants	Use Booster Battery or Charger	240-1
Lubricant Storage200A-12	Battery Maintenance	240-1
Oilscan™ and CoolScan™200A-12	Replace Battery	240-2
6 5	Replace Fusible Link	
Transmission, Steering, Brake, Hydraulic, and Gear Case Oil200A-13		
and Gear Gase Oil200A-13	Replace Cab Fuses	240-2
	Replace OOS Fuses	240-5
As Required Maintenance	Handle Halogen Light Bulbs Safely	
Maintain As Required 200B-1	Replace Halogen Headlight Bulb	. 240-7
Paint and Finish Care	Replace LED Headlight	. 240-9
Wash Machine 200B-2	Replace Auxiliary Drive Light Bulb	. 240-9
	Replace Loader Light Bulb	
Controls and Instruments Maintenance	Replace Bucket Light	240-10
General Controls and Instruments	Replace Fender Tail/Turn/Brake Light Bulb	240-10
Maintenance210-1	Replace Turn Signal/Hazard and Clearance	
Waliterlande210-1	Light Bulb—Open Operator's Station	240-10
	Replace Park Hazard Light Bulb—Cab	240-11
Engine Maintenance	Replace Canopy Hazard Light Bulb	240-11
Break-In Maintenance220-1	Replace Cab Halogen Worklight Bulb	240-11
Break-In Checks220-1	Replace Cab LED Worklight	240-12
Check Engine Oil Level220-1	Replace OOS Worklight Bulb	240-12
Change Engine Oil and Filter (4.5 Liter 4	Replace OOS Fender Light Bulb	240-13
Cylinder Engine)220-2	Replace Beacon Light Bulb	
Change Engine Oil and Filter (2.9 Liter 3	Replace Dome Light Bulb	
Cylinder Engine)220-3	Replace Right-Hand Console Light Bulb	240-14
Clean Open Crankcase Vent (OCV)220-4	Replace License Plate Light Bulb	
Change Open Crankcase Vent Filter (OCV) 220-4	Tropiaco Electide i late Elgitt Bulb	240-14
Check Fan Belt Tensioner (4.5 Liter 4		
Cylinder Engine) 220-5	Drivetrain Maintenance	
Cylinder Engine)	Drivetrain Information	. 250-1
Engine)220-5		
Engine)220-5 Inspect and Adjust Alternator Belt (2.9 Liter 3	Transmission Maintenance	
Cylinder Engine)220-6	Change Transmission/Hydraulic Oil and	
Replace Alternator Belt (2.9 Liter 3 Cylinder	Filter	250A-1
Engine)	Check Neutral Start System	
Inspect and Adjust Air Conditioner	Check Transmission Park System	250A-2
Compressor Belt (2.9 Liter 3 Cylinder	Replace Transmission Dampener	250A-2
Engine)	Replace Transmission Bamponer	200/ (2
Engine)	MENAND and Front And Maintenance	
(2.0.1 item 2.0 dinder Engine)	MFWD and Front Axle Maintenance	0500 4
(2.9 Liter 3 Cylinder Engine)	Check Axle Pivot Pin End Play	250B-1
Adjust Engine Valve Clearancé	Lubricate 2WD Axle Pivot Point	250B-1
	Lubricate 2WD Steering Spindles and	0=05 4
Air, Fuel, Coolant, and Exhaust Maintenance	Cylinders	
Required Emission-Related Information 230-1	Pack 2WD Front Wheel Bearings	250B-1
Recommended Dealer Performed Service 230-1	Check MFWD Axle for Oil Leaks	
Check Engine and Exhaust Compartments	Lubricate MFWD Axle Trunnion	
for Debris230-1	Change MFWD Axle Wheel Hub Oil	250B-3
Clean Diesel Particulate Filter (DPF) 230-1	Change MFWD Axle Housing Oil	250B-3
Change Diesel Exhaust Fluid (DEF) Dosing		
Unit Filter	Differential and Rear Axle Maintenance	
Replace Diesel Exhaust Fluid (DEF) Tank	Lubricate Rear Axle Bearings	250C-1
Header Suction Screen230-2	Eubhodie Real 7 Me Bearings	2000 1
Clean Diesel Exhaust Fluid (DEF) Tank	D T I OK (DTO) M I I	
Drain Diesel Exhaust Fluid (DEF) Tank	Power Take-Off (PTO) Maintenance	
Service Air Cleaner Elements	Adjust PTO Speed Selector Lever	250D-1
Tighten Air Intake and Engine Cooling Hose	Lubricate Exchangeable 540/1000 rpm PTO	
Clamps230-8	Shaft	250D-1
Clean Air Filter Dust Unloading Valve	Change Front PTO Oil	250D-1
Clean Grille Screens and Cooling Bookson 220-10		
Clean Grille Screens and Cooling Package 230-10	Steering and Brake Maintenance	
Do Not Modify Fuel System	Check Manual Brakes	260-1
Drain Water and Sediment from Fuel Filter 230-12	CCommanda Diano	55 1
Bleed Fuel System	Underdies Maintenan	
Replace Fuel Filters	Hydraulics Maintenance	
Clean Fuel Tank Vent Filter (If Equipped) 230-15	Check Transmission/Hydraulic System Oil	070 1
Check Coolant Level	Level	. 270-1

Page	9	Page
Change Transmission/Hydraulic Filter 270-	Operator's Station Maintenance	
Change Transmission/Hydraulic Oil and	Clean Cab Air Filters2	90-1
Filter	Check Air Conditioning System	.00 i
1 1101	Replace Wiper Blade2	200-1
Hitch and Duranhan Maintenance	Inspect Seat Belts	200-2
Hitch and Drawbar Maintenance		.90-2
Lubricate Draft Sensing Shaft Seal	Adjust Rear Fender—Open Operator's	200 2
Lubricate Rear Hitch	Station	
Lubricate Front Hitch	Keep ROPS Installed Properly2	190-3
Inspect Hitch and Drawbar for Excessive	Keep Cab Protection System Installed	
Wear 270A-2	Properly2	<u>'</u> 90-3
Selective Control Valve Maintenance	Troubleshooting	
Adjust Mechanical SCV Cables 270B-7	1 Engine3	300-1
Empty Rear SCV Oil Collection Bottle 270B-	1 Heat and Air Conditioning3	300-5
, ,	Electrical3	8-00
Miles ale and Times Maintenance	Transmission	
Wheels and Tires Maintenance	Brakes 30	0-10
Inspect Tires	l Undroulies 20	0-10
Adjust and Check Clearance	I Litah	00-11
Check Tire Inflation Pressure	Soloctive Central Valves (SCV)	10-12
Tire Pressures	l	,0 12
Tire Inflation Pressure Guidelines		
Tire Sidewall Information	On-Board Diagnostics	
Use Correct Tire Combinations 280-3	STOP, Service, Information Alert Indicators,	
Tire Combination Chart - 2WD 280-3	and Alarms 30	0A-1
Tire Combination Chart - MFWD280-4		0A-1
Correct Tire Selection	•	
Changing Tire Sizes		
Select Front Tire Rolling Direction		100 1
Rear Wheel Tread Width Limitations		100-1
		100-2
Adjust Front Axle Width—2WD Front Axle 280-6		
Set Tread—2WD Front Axle		100-3
Set Tread—Two-Position MFWD Wheels 280-10		100-5
Set Tread—Multi-Position MFWD Wheels 280-1		-005
Set Tread—Two-Position Rear Wheels 280-13		6-00ب
Set Tread—Multi-Position Rear Wheels 280-14		6-00
Tighten Wheel Bolts Correctly 280-17	7 Hydraulic Specifications4	6-00ا
Install Wheel Spacer		6-00ا
Tighten Wheel Bolts—2WD Front Axle 280-18	Front Hitch Lift Capacities4	100-7
Tighten Wheel Bolts—MFWD Axle 280-18	Wagon Hitch and Pick-Up Hitch Capacities4	100-7
Tighten Wheel Bolts—Rear Axle 280-19	Drawbar Capacities4	100-7
Jacking Up Machine 280-19		100-7
Check Toe-In—2WD Axle		
Adjust Toe-In—2WD Axle	Maximum Permissible Towable Mass	
Check Toe-In—MFWD Axle	Ballast Capacities	
Adjust Toe-In—MFWD Axle		100-8
Set Steering Stops 280-22		<i>1</i> 0-10
Set Steering Stops 200-22		00 40
	on Trailer Hitch	10-10
Ballasting Maintenance	Calculate Permissible Mass	10-11
General Ballast Information 280A-7		JU-11
Select Ballast Carefully	1	
Front-End Ballast		
Rear Wheel Ballast		0A-1
Control Power Hop—MFWD 280A-3	Record Front Axle Serial Number	
Add Liquid Ballast to Tires	Record Engine Serial Number (4.5 Liter 4	J/ \- I
Remove Liquid Ballast from Tires	Cylinder Engine)	ωΔ 1
Measure Wheel Slip		UA-I
ivicasare viriosi olip		ω Λ Ω
	Cylinder Engine)	UA-2
Additional Equipment Maintenance	Record Transmission Serial Number 40	
Front Loader Bracket Installation 280B-7		
Adjust Front Fender 280B-2		0A-3
Set Pivoting Fender Brackets 280B-2	2	
Set Fender Position	Certification and Warranty	
	Cab ROPS Certificate40	0R-1
	345 1101 0 001tillouto	ו-טי

	Page
OOS ROPS Certificate	400B-2
Maintenance Records	
Daily or 10 Hours	500-1
Weekly or 50 Hours	500-1
First 100 Hours	500-2
Every 250 Hours	500-2
Every 300 Hours	500-3
Every 500 Hours	500-5
Every 600 Hours	500-7
Every 1200 Hours	500-8
Every 1500 Hours	500-9
Annual Maintenance	500-10
Every 3000 Hours	500-11
Every 4500 Hours	500-11
Change of Ownership	500-12
Change of Ownership	
Change of Ownership	500-12