# **200 Sprayer Attachment**

# TECHNICAL MANUAL

John Deere Worldwide Commercial and Consumer Equipment Division

TM1729 (01DEC97)

Sa	afe	etv
UC	110	FLY



Specifications and Information





Miscellaneous



# **RECOGNIZE SAFETY INFORMATION**



This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe servicing practices.

# **Understand Signal Words**

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

# **REPLACE SAFETY SIGNS**



Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

# HANDLE FLUIDS SAFELY-AVOID FIRES

# **Be Prepared For Emergencies**





When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

## USE CARE AROUND HIGH-PRESSURE FLUID LINES

# **Avoid High-pressure Fluids**



Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid injury from escaping fluid under pressure by stopping the engine and relieving pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

## Avoid Heating Near Pressurized Fluid Lines



Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.

# **USE SAFE SERVICE PROCEDURES**

# Wear Protective Clothing





Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

# **Service Machines Safely**



Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.

# **Use Proper Tools**

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards. Use power tools only to loosen threaded parts and fasteners. For loosening and tightening hardware, use the correct size tools. **DO NOT** use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches. Use only service parts meeting John Deere specifications.



### Park Machine Safely



#### Before working on the machine:

- 1. Lower all equipment to the ground.
- 2. Stop the engine and remove the key.
- 3. Disconnect the battery ground strap.
- 4. Hang a "DO NOT OPERATE" tag in operator station.

# Support Machine Properly And Use Proper Lifting Equipment



If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

Lifting heavy components incorrectly can cause severe injury or machine damage. Follow recommended procedure for removal and installation of components in the manual.

# Work In Clean Area

#### Before starting a job:

- 1. Clean work area and machine.
- 2. Make sure you have all necessary tools to do your job.
- 3. Have the right parts on hand.
- 4. Read all instructions thoroughly; do not attempt shortcuts.

# **Using High Pressure Washers**

Directing pressurized water at electronic/electrical components or connectors, bearings, hydraulic seals, fuel injection pumps or other sensitive parts and components may cause product malfunctions. Reduce pressure and spray at a 45 to 90 degree angle.

# **Illuminate Work Area Safely**

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.

# Remove Paint Before Welding Or Heating

Avoid potentially toxic fumes and dust. Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch. Do all work outside or in a well ventilated area. Dispose of paint and solvent properly. Remove paint before welding or heating: If you sand or grind paint, avoid breathing the dust. Wear an approved respirator. If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

# **Avoid Harmful Asbestos Dust**

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos. Keep bystanders away from the area.

# AVOID INJURY FROM ROTATING BLADES, AUGERS AND PTO SHAFTS



Keep hands and feet away while machine is running. Shut off power to service, lubricate or remove mower blades, augers or PTO shafts.

# HANDLE CHEMICAL PRODUCTS SAFELY



Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

# **Dispose of Waste Properly**

Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries. Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them. Do not pour waste onto the ground, down a drain, or into any water source. Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.

# LIVE WITH SAFETY



Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



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# **GENERAL VEHICLE SPECIFICATIONS**



#### **OPERATING SPECIFICATIONS**

Available Nozzle Types	Turbo-Floodjet
	Raindrop <sup>®</sup>
	Flat-Fan

#### PUMP SPECIFICATIONS

Make	. Hypro <sup>®</sup>
Model	9203C
ТуреСе	entrifugual
Maximum Flow Rate	136 gpm
Discharge Pressure 1241 kPa	ı (180 psi)

#### WEIGHT AND DIMENSIONS

Weight
Tank Empty 113 kg (250 lbs.)
Tank Filled with Water
Tank Capacity
Width
Boom Wings Raised
Boom Wings Lowed and Wing Extensions Folded
Boom Wings Lowed and Wing Extensions Extended 615 cm (242 in.)
Height (Installed on Vehicle)
Boom Wings Raised and Wing Extensions Folded 178 cm (70 in.)
Boom Wings Raised and Wing Extensions Extended 244 cm (96 in.)

#### **OPTIONAL FOAM MARKER SPECIFICATIONS**

Make	
Model	MKR-5000C
Tank Capacity	53 L (14 gal)
Average Foam Output	12.1 Liters per Hour (3.2 Gallons per Hour)
Average Solution Usage	18.1 Liters per Hour (4.8 Gallons per Hour)
Average Drop Interval	7.7 Seconds
Average Drop Distantance (at 16.9 kph [10	mph])
Weight (Tank Empty)	48 kg (48 lbs.)
Dimensions:	
Width	
Depth	
Height	610 mm (24 in.)
Voltage Requirements	12—14 vdc
Amperage Requirements (Maximum)	

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