

# 15 and 25 Gallon Sprayers Wheeled and Portable (Serial No. 030001-)



JOHN DEERE

## **OPERATORS MANUAL**

15 and 25 Gallon Sprayers Wheeled and  
Portable  
(Serial No. 030001-)

OMM135137 J8 English

**John Deere**  
**Lawn & Grounds Care Division**  
**OMM135137 J8**  
North American Version

LITHO IN U.S.A.  
ENGLISH



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# INTRODUCTION

**THANK YOU** for purchasing a John Deere product.

Read this manual and your vehicle manual thoroughly. 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.

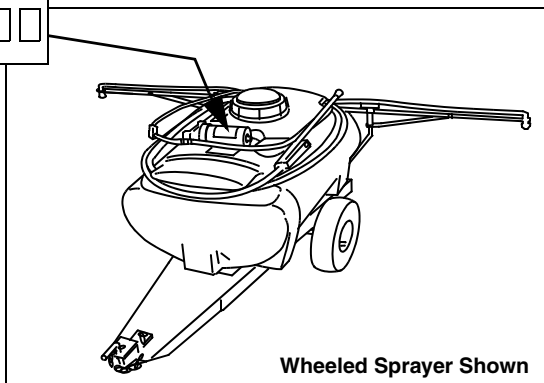
Measurements in this manual are metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (----->) it indicates the part it is pointing to is hidden.

Product 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 product warranty is explained on the warranty certificate you received from your dealer.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your dealer when you order parts.

|                                                                                                                |                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of Purchase:</b><br><div style="border-bottom: 1px solid black; height: 20px; margin-top: 5px;"></div> | <div style="display: flex; justify-content: space-between;"> <b>Dealer Name:</b> <b>Phone:</b> </div> <div style="border-bottom: 1px solid black; height: 20px; margin-top: 5px;"></div> |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Serial Number:  
□ □ □ □ □ □ □ □ □ □ □ □



### Wheeled Sprayer Shown

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# SAFETY SIGNS

## Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



## Machine Safety Labels

### WARNING (A)

To avoid injury from chemical hazards, wear protective clothing. Read and follow chemical manufacturer's labels and instructions.

### CAUTION (B)

Not for use with flammable liquids.



## PREPARING THE VEHICLE

---

### **Tractor Requirements (15 Gallon and 25 Gallon Wheeled Sprayers)**

|                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------|
| <b>IMPORTANT:</b> No rear suitcase weights or grass bagging attachments should be installed on tractor while using sprayers. |
|------------------------------------------------------------------------------------------------------------------------------|

Make sure tractor tire pressure is correct. (See your tractor operator's manual for the correct pressure.)

Tractor weights improve stability. Add front weights for better front-end stability and steering. See your John Deere dealer for these weights. Instructions to install will come with the weights.

Your tractor requires the following:

- 12-Volt Battery and Alternator
- Drawbar
- Wiring Harness Extension (Part Number: AM105666): This part is required for all tractors with the battery mounted near the front grille. For more information, see Install Wiring Harness in the INSTALLING section. Order this wiring harness from your John Deere dealer.

### **Vehicle Requirements (25 Gallon Portable Sprayer)**

Please read the sections on operation and spraying safety in your operator's manual. Pay particular attention to the section dealing with the 12-volt wire harness installation.

You should pay particular attention to what the sprayer will be transported with. Be sure that the unit is capable of carrying the 25 gallon portable sprayer fully loaded. When loaded it will weigh about 103 kg (227 lb), so it is important that the unit be secured properly and that the carrying vehicle can safely carry that load.

## INSTALLING

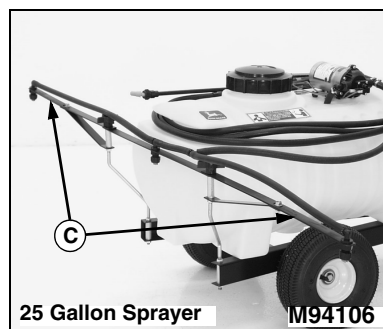
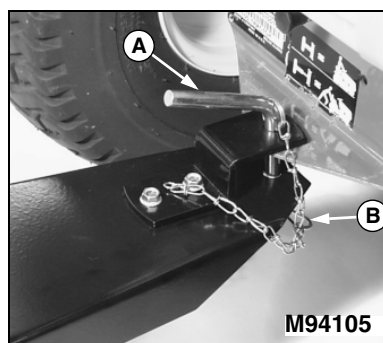
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### Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

### Attaching Wheeled Sprayer to Tractor

1. Pull sprayer in line with the drawbar on the tractor.
2. Pull sprayer forward until drawbar on tractor is between clevis on sprayer.
3. Put hitch pin (A) into hole in clevis and through drawbar.
4. Fasten with spring locking pin (B).
5. Swing out boom extensions (C) and lock in place.

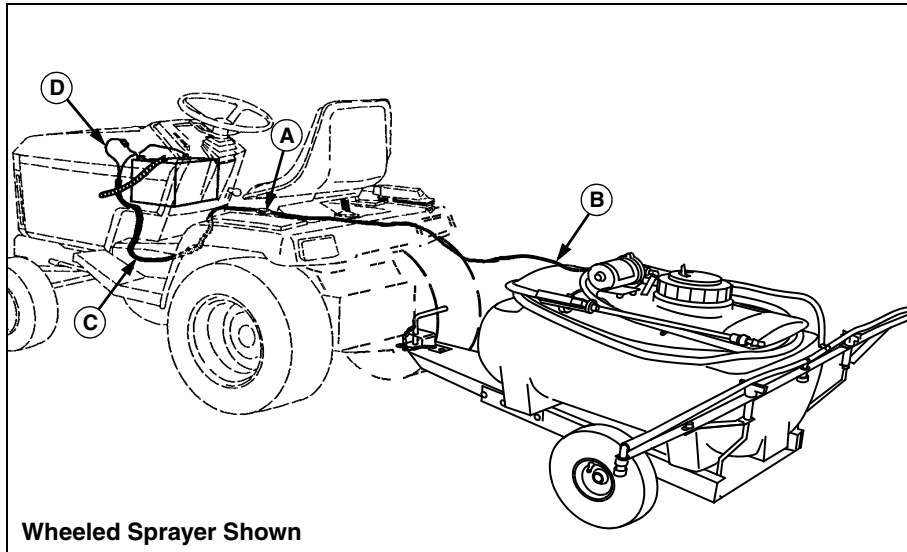


### Attaching Portable Sprayer

Be sure that the carrying vehicle is capable of carrying the 25 gallon portable sprayer fully loaded. When loaded it will weigh about 103 kg (227 lb). It is important that the sprayer be secured properly and that the carrying vehicle can safely carry that load.

## INSTALLING

### Install Wiring Harness (For Tractors With Mid-Mounted Battery)



1. Open tractor hood.

**NOTE: Switch (A) is not located at center of main wiring harness. The harness plug connector nearest to the switch gets connected to the pump leads.**

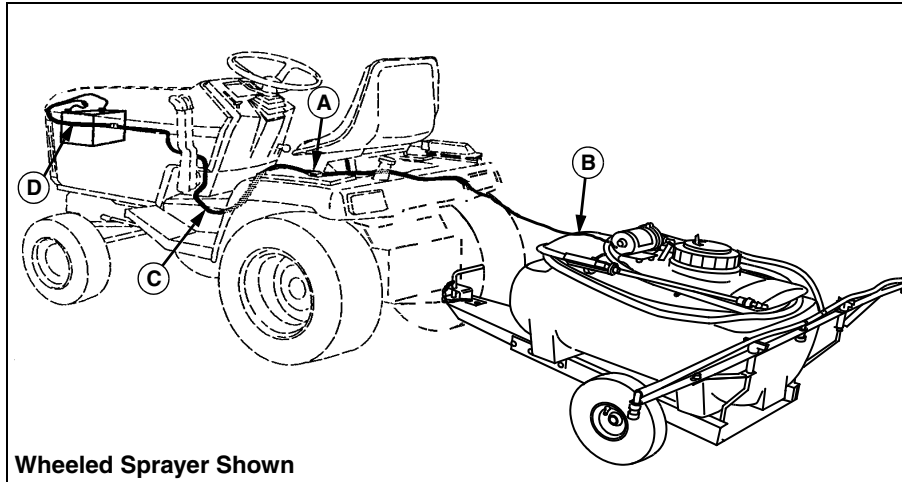
2. Connect main wiring harness to pump leads (B).
3. Route main harness as shown and clip in place at foot rest side panel (C). On some units route harness on right side of fuel tank filler neck.
4. Connect other end of main harness to fused battery lead (D).

**IMPORTANT: Avoid damage to wiring. Make sure hood does not close on wiring harnesses.**

5. Close tractor hood.

## INSTALLING

### Install Wiring Harness (For Tractors With Upper Front-Mounted Battery)



1. Open tractor hood.

**NOTE: Switch (A) is not located at center of main wiring harness. The harness wiring connector nearest to the switch gets connected to the pump leads.**

2. Connect main wiring harness to pump leads (B).
3. Route main harness as shown. Clip harness in place at foot rest side panel (C). On some units route harness on right side of fuel tank filler neck.
4. Make sure harness extension (D) passes between the left side hood rods. Connect the main harness to the wiring harness extension.

**IMPORTANT: Avoid damage to wiring. Make sure hood does not close on wiring harnesses.**

5. Close tractor hood.

## INSTALLING

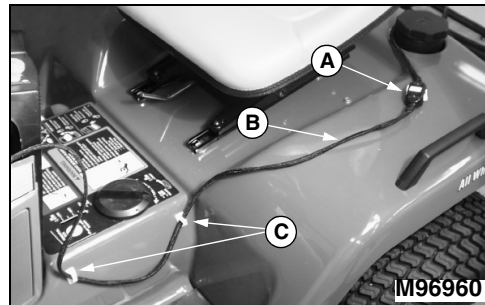
### Install Wiring Harness (For Tractors With Lower Front-Mounted Battery)

1. Open tractor hood.

**NOTE: Switch (A) is not located at center of main wiring harness. The harness wiring connector nearest to the switch gets connected to the pump leads.**

2. Connect main wiring harness (B) to pump leads.

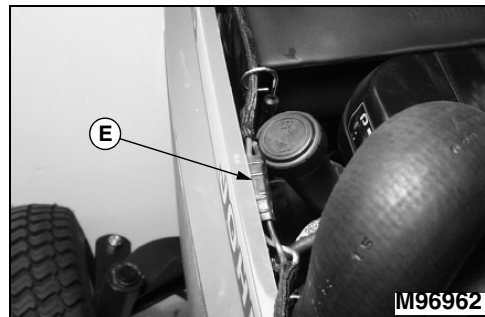
3. Route main harness along fender as shown and clip in place at foot rest side panel (C).



4. Route main harness under side panel mounting flange (D) and along the top of side panel.



5. Connect main harness plug (E) to harness extension plug at dipstick.



**IMPORTANT: Avoid damage to wiring. Make sure hood does not close on wiring harnesses.**

6. Close tractor hood.

# REMOVING

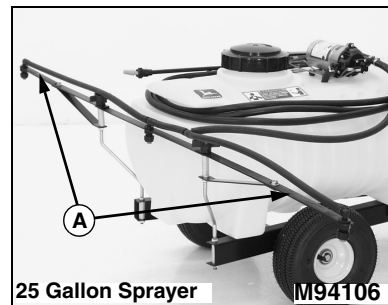
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## Park Vehicle Safely

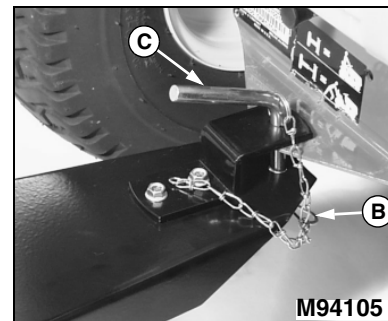
- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

## Removing Sprayer

1. Empty the sprayer tank. (See Dispose of Chemicals Safely in the OPERATING section.)
2. Disconnect the main wiring harness only. Leave all other harnesses installed on tractor.
3. Roll up the main harness and store with sprayer.
4. **Portable Sprayers** - Remove sprayer from the carrying vehicle.
5. **Wheeled Sprayers** - Fold in boom extensions (A).



6. Pull spring locking pin (B) out of hitch pin (C). Remove hitch pin (C).
7. Pull sprayer back from tractor.
8. Put hitch pin in sprayer hitch for storage.



# OPERATING

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## SAFETY

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### Operate Safely



- Check vehicle brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Make repairs before you operate. Keep machine properly maintained and in good working order.
- Keep children away from spraying area.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- DO NOT let anyone, especially children, ride on sprayer or vehicle.
- DO NOT let children or untrained person operate machine.
- Do not direct spray toward bystanders or allow anyone near sprayer while in operation.
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.
- Do not spray during extreme heat or windy weather.
- Do not put nozzle tip or other parts to your lips to blow out dirt.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

# OPERATING

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## Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.

## Use Chemicals Safely



- DO NOT use flammable liquids.
- Chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soil or other properties.
- Follow directions for each specific chemical.
- Add chemicals to water—not water to chemicals.
- Never allow the water hose that is used to fill the tank to actually reach down into the spray mix. You may “contaminate” the end of the hose.
- Your spray dealer can tell you which sprays need to be followed by a spray neutralizer material.

## Mix And Handle Chemicals Safely

- Follow instructions on chemical container labels.
- Open all chemical containers carefully, using proper tools.
- Open, pour, and mix in a well-ventilated area.
- Reserve all equipment used for the application of chemicals exclusively for that purpose.
- DO NOT smoke, drink or eat food in chemical-handling area.

## OPERATING

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### Dispose of Chemicals Safely



- Proper disposal of excess spray material is very important. If you have excess spray material, it is best to dilute it with water and spray it on the area you previously sprayed.
- Never DUMP material in a drain or near a lake or stream.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. See your Chemical Spray dealer for the MSDS on chemical products used with your machine.

### Lifting Portable Sprayer Safely

- Use caution when lifting the portable sprayer to help prevent possible injury.
- When filled with liquid, the 25 gallon portable sprayer weighs 103 kg (227 lb). Empty tank before attempting to lift.

### Transporting Portable Sprayer Safely

- Use caution when transporting the portable sprayer to help prevent possible injury.
- When filled with liquid, the 25 gallon portable sprayer weighs 103 kg (227 lb). This extra weight on the back of a vehicle, cart, wheelbarrow, etc. could change the stability of the machine which you chose for transportation.

### Transporting Wheeled Sprayer Safely

- Push pump switch to OFF position.
- Fold boom extensions in their transport position.

# OPERATING

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## **Spraying Tips**

- Check sprayer tip height. Dimension should be 43.2 cm (17 in.). If not, adjust sprayer tip height before operating. (See Adjusting Tip Height and Width in this section.)
- Do not let sprayer run in one spot.
- Do not over spray when you use weed killers.
- Liquid spray material is recommended. Sprayer does not agitate wettable powders.
- Timely applications of a smaller dosage are better than large applications.
- Turn sprayer OFF during turns to avoid double spraying.
- Fill sprayer where spills cannot harm grass.
- Follow manufacturer's recommendations for application of specific chemicals.
- Stop sprayer when tank is empty.

## **Checking Tractor Ground Speed**

1. Check ground speed in an open area.
2. Measure a test area that is 30.5 m (100 ft) in length.
3. Operate the tractor at wide open throttle. Operate tractor at a low speed and drive the tractor the test distance. Record the time needed to travel that distance.
4. Make three passes, recording the time for each pass. The average time should be 23 to 27 seconds to achieve the recommended operating speed range:
  - 15 Gallon Sprayer – the recommended operating speed is 4.8 km/h (3 mph). At this speed, the average time traveling the test distance should be 23 seconds.
  - 25 Gallon Sprayer – the recommended operating speed is 4.0 km/h (2.5 mph). At this speed, the average time traveling the test distance should be 27 seconds.
5. Adjust accordingly to achieve recommended speed range.

# OPERATING

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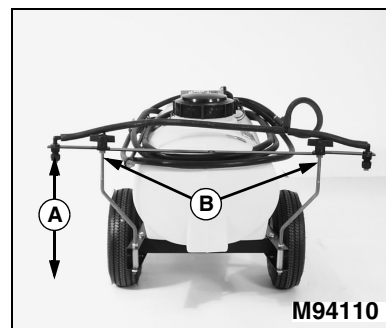
## General Spraying Information

**15 GALLON SPRAYER APPLICATION:** The 15 Gallon Sprayer operates at a fixed pressure of 620 kPa (90 psi). This yields 12 minutes of spraying time using the spray boom or 25 minutes of spraying time using the handgun. When operating the spray boom, plan on driving about 4.8 km/h (3 mph) or 80 m/min (264 fpm). That provides 1472 m<sup>2</sup> (15,840 sq ft) of spray coverage per tank. Plan on about 10 percent overlap, so put enough chemical in the tank for 1301 m<sup>2</sup> (14,000 sq ft) of spray coverage.

**25 GALLON SPRAYER APPLICATION:** The 25 Gallon Sprayer operates at a fixed pressure of 620 kPa (90 psi). This yields 16 minutes of spraying time using the spray boom or 42 minutes of spraying time using the handgun. When operating the spray boom, plan on driving about 4.0 km/h (2.5 mph) or 67 m/min (220 fpm). That provides 2453 m<sup>2</sup> (26,400 sq ft) of spray coverage per tank. Plan on about 10 percent overlap, so put enough chemical in the tank for 2230 m<sup>2</sup> (24,000 sq ft) of spray coverage.

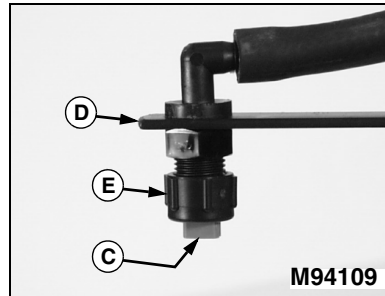
## Adjusting Tip Height and Width

1. Attach sprayer to tractor.
2. Measure from spray tip to ground. Distance to ground (A) should be approximately 43.2 cm (17 in.). If necessary, adjust boom height by raising or lower the boom on the threaded boom supports (B).



## OPERATING

3. Check spray tips (C). Tips should be aligned with boom (D) as shown. If necessary, loosen spray tip cap nut (E). Align spray tip (C) and tighten cap nut.



4. Test spray pattern with water on driveway or sidewalk. Each spray tip pattern should spread out to the RIGHT-HAND and LEFT-HAND sides, rather than to the front and back of the boom. There should be some spray overlap between each tip and the spray patterns should be consistent.

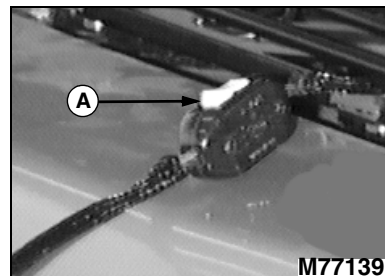
### Starting and Stopping Sprayer



**CAUTION: AVOID ACCIDENTAL SPRAYING!**  
The sprayer pump to battery hookup is a direct electrical connection. Shutting off the transport vehicle does not prevent operation of the sprayer pump. **DISCONNECT** the pump connection before leaving the sprayer.

**IMPORTANT: Operate sprayer with transport vehicle running to avoid draining down battery.**

Push switch (A) to ON or OFF position to START or STOP sprayer.



# OPERATING

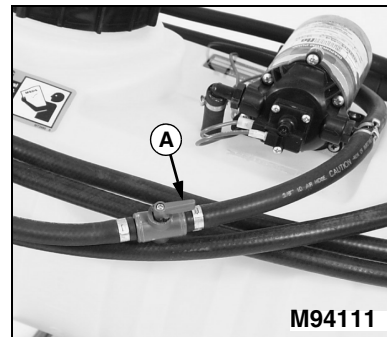
## Selecting Handgun or Boom Nozzles

**NOTE:** Shut-off valve lever (A) has two positions:

- **ON POSITION** – Lever is parallel with hose. Pump flow is directed to the sprayer boom.
- **OFF POSITION** – Lever is perpendicular with hose. Pump flow is directed to the handgun.

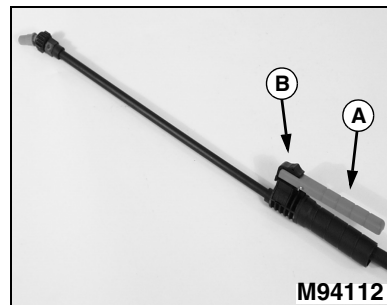
**TO USE HANDGUN:** Turn lever (A) so that it is perpendicular with hose. You can now use the handgun for spraying.

**TO USE SPRAYER BOOM:** Turn lever (A) so that it is perpendicular with hose. Turn pump ON and operate handgun to remove all air from hose. After handgun sprays liquid, turn pump OFF. Turn lever (A) so that it is parallel with hose. You can now use the boom nozzles for spraying.



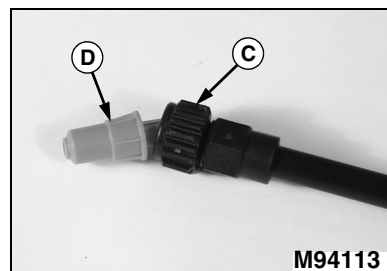
## Using Handgun

1. On wheeled sprayers only, turn valve to select handgun operation.
2. Squeeze handle (A) to spray.
3. Push lock (B) forward to lock handle in "ON" position.



4. Adjust nozzle:

- **Nozzle Angle** - Loosen locknut (C). Turn nozzle (D) as desired and tighten locknut.
- **Nozzle Spray Pattern** - To change the spray pattern, tighten or loosen nozzle (D) as desired.



## REPLACEMENT PARTS

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**WE RECOMMEND JOHN DEERE** quality parts and lubricants, available at your John Deere dealer.

**PART NUMBERS MAY CHANGE**, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

**WHEN YOU ORDER PARTS**, your John Deere dealer needs your machine serial number. This is the number you have recorded in the **INTRODUCTION** section in the front of this manual.

| ITEM             | PART<br>NUMBER |
|------------------|----------------|
| Spray Tip Screen | AM106667       |
| Fuse (15 amp)    | AT39227        |

(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

If you would like a copy of the Parts Catalog for this machine, please use the **Order Form** in the JOHN DEERE SERVICE LITERATURE section.

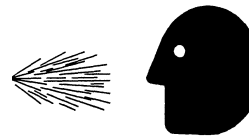
## SERVICE MACHINE SAFELY

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### Practice Safe Maintenance



- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before you service, adjust, clean or inspect sprayer:
  - STOP the vehicle engine.
  - Turn sprayer switch OFF.
  - Disconnect pump connection.
- Securely support any machine elements that must be raised for service work.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Unauthorized modifications to the machine may impair its function and safety.
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.
- Keep spare filters available for replacement.



## SERVICE MACHINE SAFELY

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### **Wear Appropriate Clothing**

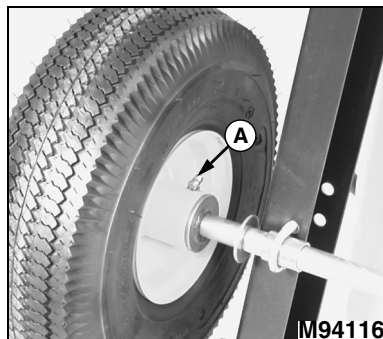


- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.

## SERVICE

### Greasing Wheels

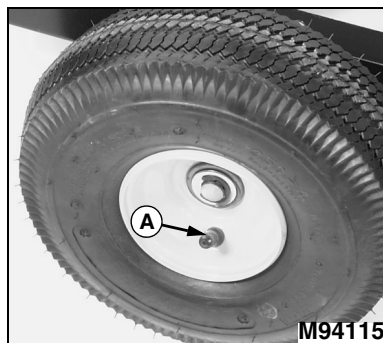
Grease wheels at point (A) with John Deere multipurpose grease or an equivalent.



### Checking Tire Pressure

Check tire pressure at point (A).

- Tire pressure should be 207 kPa (30 psi).
- Tire Size: 4.10 x 3.50 - 4 (Maximum load 118 kg (260 lb)).



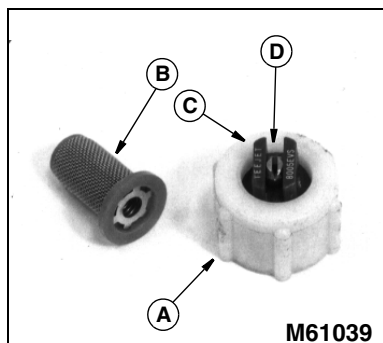
### Cleaning Spray Nozzle

1. Remove spray nozzle (A) from sprayer.
2. Disassemble filter (B) and spray tip (C).

**NOTE: Do not use a wire to clean opening (D) in spray tip.**

3. Wash filter and spray tip in a non-flammable solvent.

4. Put spray tip in spray nozzle.
5. Put flat side of filter in spray nozzle.
6. Install assembly on sprayer and tighten nozzle.



## SERVICE

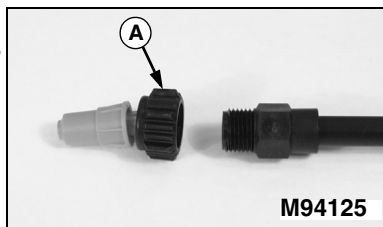
### Cleaning Pump Suction Screen

1. Remove tank cover (A).
2. Locate suction screen (B) inside sprayer tank.
3. If necessary, unscrew suction screen and clean with liquid detergent and warm water.
4. If suction screen was removed, install on suction hose and position in lowest depression inside tank.
5. Install and tighten tank cover.



### Cleaning Handgun Nozzle

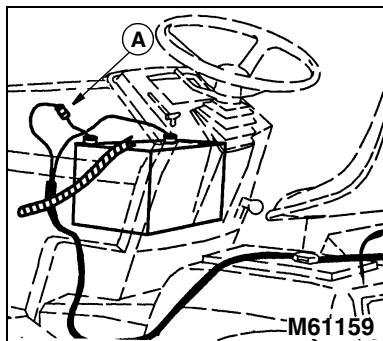
1. Unscrew nozzle (A) from handgun.
2. Wash nozzle with liquid detergent and warm water.
3. Install and tighten nozzle.



### Changing Fuse

**IMPORTANT: AVOID ELECTRICAL SYSTEM OVERLOAD!**  
Replace faulty fuse with one of the same amperage rating (15 amp). Repeated fuse failures indicates a problem in the circuit that must be corrected.

1. Open tractor hood.
2. Hold each end of fuse holder (A) located on positive battery terminal.
3. Twist holder open.
4. Remove fuse.
5. Install new 15 amp fuse.
6. Twist holder closed.
7. Close tractor hood.

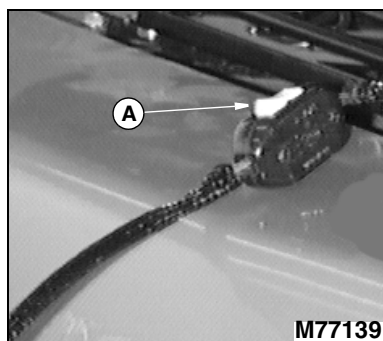


# SERVICE

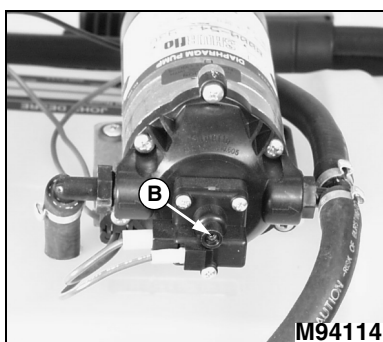
## Adjusting Pump

**IMPORTANT:** To prevent pump damage, stop turning wrench as soon as pump runs smoothly.

1. Park tractor where spray will do no damage.
2. STOP engine.
3. Push switch (A) to ON.



4. Using a hex wrench, turn set-screw (B) clockwise until pump runs smoothly.
5. Push switch (A) to OFF.



## TROUBLESHOOTING

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### Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your John Deere dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your John Deere dealer.

| IF                                     | ACTION                                                                  |
|----------------------------------------|-------------------------------------------------------------------------|
| <b>Pump Loses Suction</b>              | Clean pump suction screen.                                              |
|                                        | Check tank fill level. Fill tank.                                       |
|                                        | Clean or replace pump.                                                  |
|                                        | Check for loose pump fittings.                                          |
| <b>Pump Capacity Decreased</b>         | Clean pump suction screen.                                              |
|                                        | Clean spray nozzle(s).                                                  |
|                                        | Selection lever is not completely turned on, or is in the OFF position. |
| <b>Poor Spray Pattern</b>              | Clean spray nozzle(s).                                                  |
|                                        | Adjust nozzle height.                                                   |
|                                        | Align spray tips with boom.                                             |
| <b>Pump Vibrates or Spray Pulsates</b> | Adjust pump.                                                            |

## TROUBLESHOOTING

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| IF                 | ACTION                    |
|--------------------|---------------------------|
| Pump Does Not Work | Check wiring connections. |
|                    | Check tractor battery.    |
|                    | Clean debris from pump.   |
|                    | Check pump switch.        |
|                    | Check pump motor.         |
|                    | Check fuse at battery.    |
|                    | Adjust pump.              |

## STORING SPRAYER

### Store Sprayer Safely



**CAUTION:**



**To avoid chemical injury:**

- **Wear protective clothes, gloves and goggles when handling sprayer.**
- **Do not store sprayer with chemicals in tank.**
- **If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.**

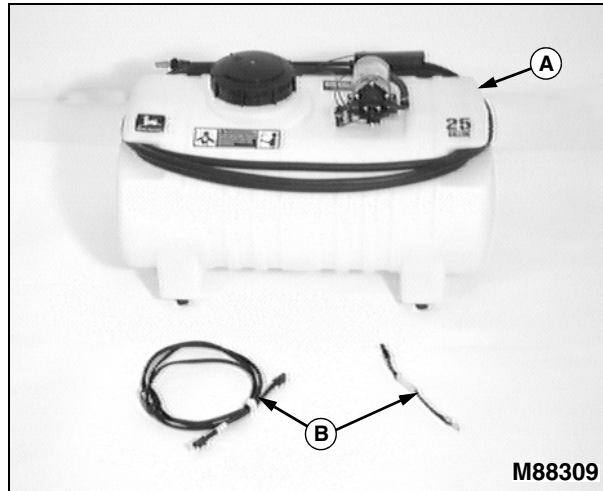
1. Pump all spray material from tank.
2. Flush tank with water.
3. Rinse tank thoroughly with a solution of household ammonia and water.
4. Flush tank again with clear water.
5. Wipe out sump with a clean cloth or paper towel.
6. Drain hoses and pump filter.
7. If unit is a wheeled sprayer, fold in boom extensions (A).
8. Remove sprayer from transport vehicle. See Removing Sprayer in the REMOVING section.
9. Check sprayer for worn or damaged parts. Replace parts as needed.
10. Tighten loose hardware.
11. Store sprayer in a place where it will not freeze.



## ASSEMBLY

---

### Identify Parts (25 Gallon Portable Sprayer)



|                                                                        |
|------------------------------------------------------------------------|
| A – 25 Gallon Sprayer Base Unit<br>(Tank with pump and hoses attached) |
|------------------------------------------------------------------------|

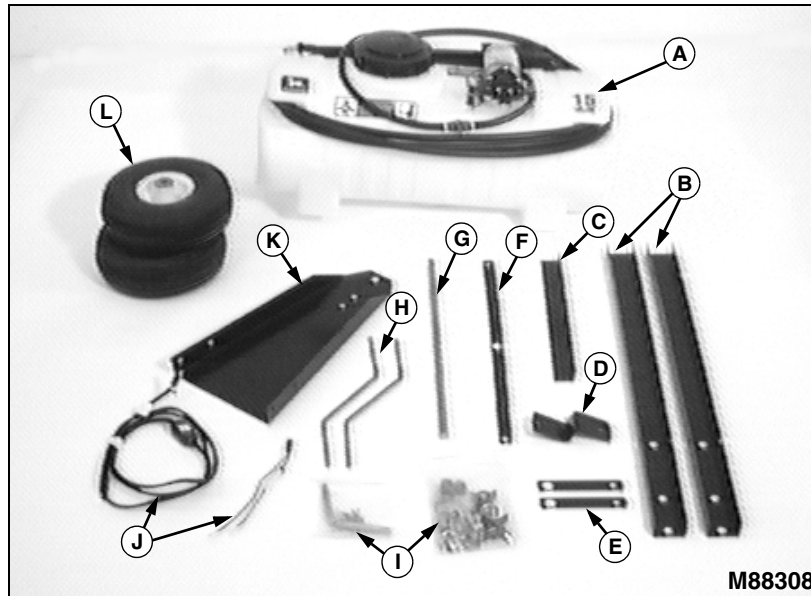
|                    |
|--------------------|
| B – Wiring Harness |
|--------------------|

|                                |
|--------------------------------|
| C – (2) Wire Clips (Not shown) |
|--------------------------------|

**NOTE: No assembly is required for the 25 Gallon Portable Sprayer.**

## ASSEMBLY

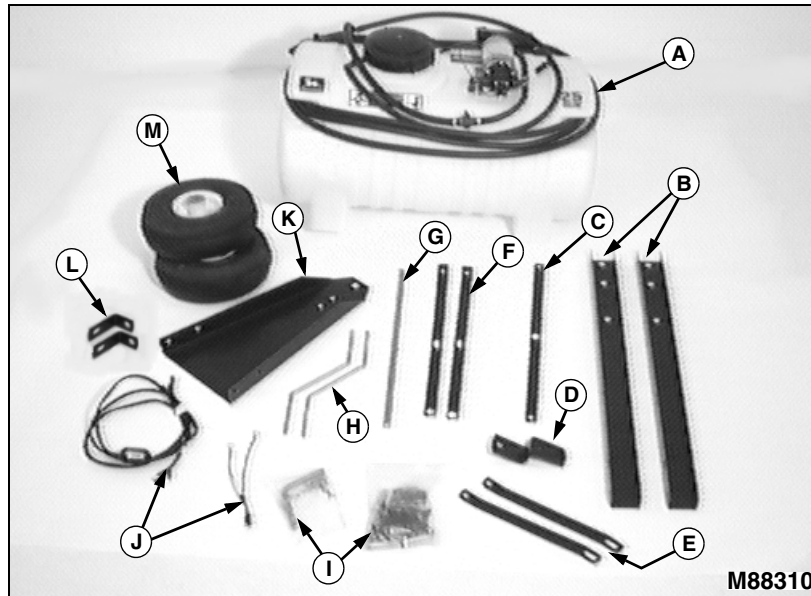
### Identify Parts (15 Gallon - Wheeled Sprayer)



|                                                                        |                       |
|------------------------------------------------------------------------|-----------------------|
| A – 15 Gallon Sprayer Base Unit<br>(Tank with pump and hoses attached) |                       |
| B – (2) Frame Rails                                                    | H – (2) Boom Supports |
| C – Rear Tank Support                                                  | I – (2) Bag of Parts  |
| D – Hitch Clevis                                                       | J – Wiring Harness    |
| E – (2) Boom Extensions                                                | K – Hitch Frame       |
| F – Center Boom                                                        | L – (2) Wheels        |
| G – Axle                                                               |                       |

## ASSEMBLY

### Identify Parts (25 Gallon - Wheeled Sprayer)



|                                                                        |                             |
|------------------------------------------------------------------------|-----------------------------|
| A – 25 Gallon Sprayer Base Unit<br>(Tank with pump and hoses attached) |                             |
| B – (2) Frame Rails                                                    | H – (2) Boom Supports       |
| C – Center Boom                                                        | I – (2) Bag of Parts        |
| D – Hitch Clevis                                                       | J – Wiring Harness          |
| E – (2) Boom Supports                                                  | K – Hitch Frame             |
| F – (2) Boom Extensions                                                | L – (2) Front Tank Supports |
| G – Axle                                                               | M – (2) Wheels              |

## ASSEMBLY

### Bag of Parts (15 and 25 Gallon Wheeled Sprayers)

**NOTE:** These parts are the same for both the 15 Gallon Sprayer and the 25 Gallon Sprayer except where noted.

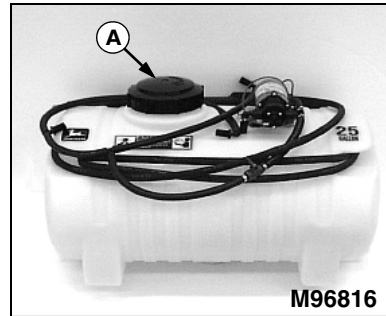
| Qty. Used | Part Description                       | Size                                                                   |
|-----------|----------------------------------------|------------------------------------------------------------------------|
| 2         | E-Clip Snap Rings                      | 5/8 in.                                                                |
| 2         | Axle U-Bolts                           | 1/4 in.                                                                |
| 4         | Flange Nuts                            | 1/4 in.                                                                |
| 14        | Serrated Flange Bolts                  | 5/16 x 5/8 in. (25 Gallon)                                             |
| 12        | Serrated Flange Bolts                  | 5/16 x 5/8 in. (15 Gallon)                                             |
| 10        | Serrated Flange Nuts                   | 5/16 in. (25 Gallon)                                                   |
| 8         | Serrated Flange Nuts                   | 5/16 in. (15 Gallon)                                                   |
| 6         | Nuts                                   | 3/8 in.                                                                |
| 2         | Locking Knobs                          |                                                                        |
| 4         | Boom Spacers                           | 1/2 x 2 in. (25 Gallon)                                                |
| 2         | Boom Spacers                           | 1/2 x 2 in. (15 Gallon)                                                |
| 2         | Axle Spacers                           | 5/8 x 1 in.                                                            |
| 4         | Flat Washers                           | 5/8 in.                                                                |
| 2         | Wire Clips                             |                                                                        |
| 1         | Tethered Chain Assembly                | Includes hitch pin, chain, spring locking pin and spring locking ring. |
| 2         | Spray Tips (15 Gallon)                 |                                                                        |
| 3         | Spray Tips (25 Gallon)                 |                                                                        |
| 2         | Spray Tip Screen (15 Gallon)           |                                                                        |
| 3         | Spray Tip Screen (25 Gallon)           |                                                                        |
| 2         | Spray Tip Fitting Lock Nut (15 Gallon) |                                                                        |
| 3         | Spray Tip Fitting Lock Nut (25 Gallon) |                                                                        |
| 2         | Spray Tip Fitting Cap Nut (15 Gallon)  |                                                                        |
| 3         | Spray Tip Fitting Cap Nut (25 Gallon)  |                                                                        |

## ASSEMBLY

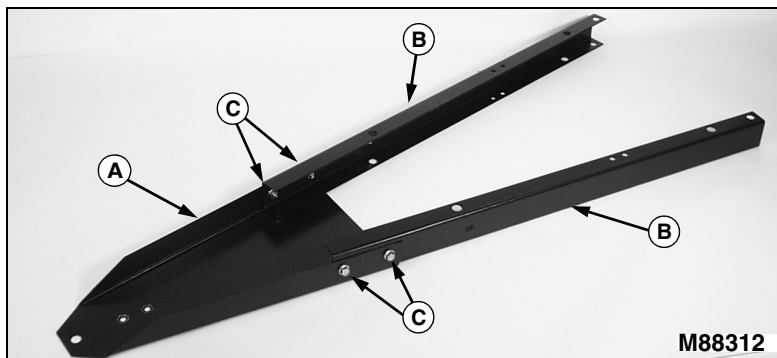
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### Clean Sprayer Tank

1. Remove tank filler cap (A).
2. Spray over all inside surfaces of tank with low pressure garden hose. Then fill tank with water.
3. Skim all plastic shavings or other debris from the water.
4. Once clean, empty the tank and install filler cap.



### Assemble Sprayer



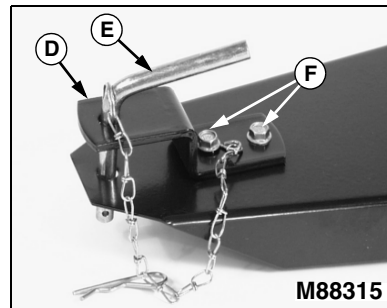
**NOTE: When installing hardware, always install with nuts to the inside. DO NOT tighten any hardware until instructed.**

1. Align mounting holes in frame rails (B) to mounting holes in hitch frame (A).
2. Install hardware (C):
  - (4) 5/16 x 5/8 in. Serrated Flange Bolts
  - (4) 5/16 in. Serrated Flange Nuts

## ASSEMBLY

3. Install hitch clevis (D) and tethered chain assembly (E). Install and tighten hardware (F):

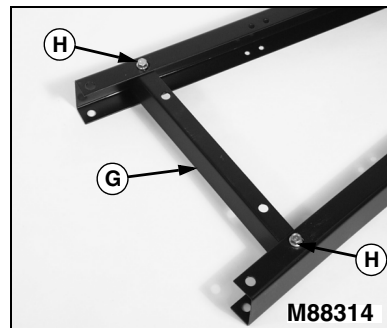
- (2) 5/16 x 5/8 in. Serrated Flange Bolts
- (2) 5/16 in. Serrated Flange Nuts



4. Install tank supports:

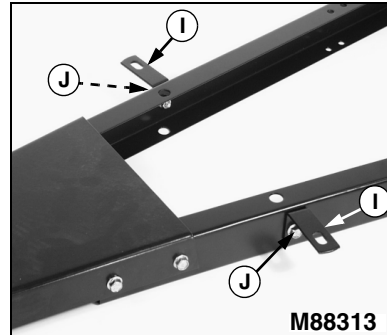
**15 Gallon Sprayer** - Locate and install rear tank support (G) on frame rails and install hardware (H):

- (2) 5/16 x 5/8 in. Serrated Flange Bolts
- (2) 5/16 in. Serrated Flange Nuts



**25 Gallon Sprayer** - Locate and install front tank supports (I) on frame rails and install hardware (J):

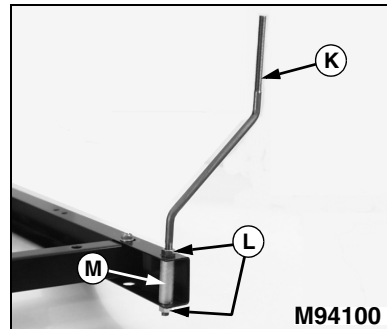
- (2) 5/16 x 5/8 in. Serrated Flange Bolts
- (2) 5/16 in. Serrated Flange Nuts



5. Install boom support (K), boom spacer (M) and hardware (L):

- (4) 3/8 in. Nuts

6. Install boom supports on both left and right frame rails. Do not tighten boom hardware until entire boom is assembled.



## ASSEMBLY

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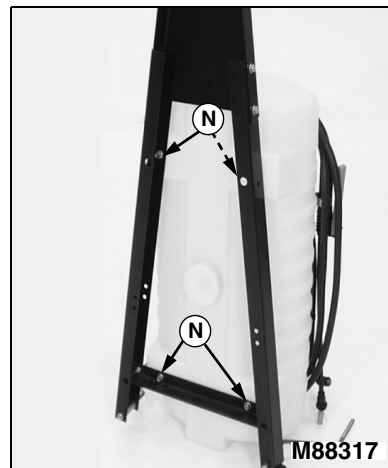
**IMPORTANT:** To prevent damage to sprayer after sprayer tank is installed, make sure **ALL** frame hardware is tightened.

**NOTE:** When installing sprayer tank, position tank with pump towards the hitch end of frame.

7. Install sprayer tank:

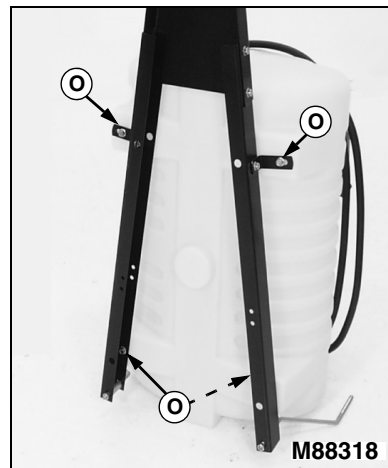
**15 Gallon Sprayer** - Locate and install sprayer tank. Install and tighten hardware (N):

- (4) 5/16 x 5/8 in. Serrated Flange Bolts



**25 Gallon Sprayer** - Locate and install sprayer tank. Install and tighten hardware (O):

- (4) 5/16 x 5/8 in. Serrated Flange Bolts



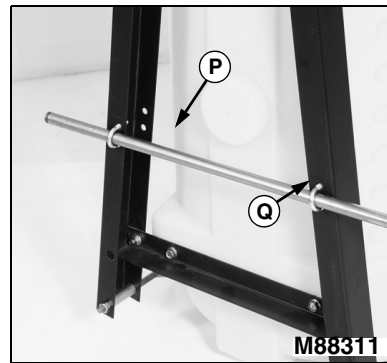
8. Tighten ALL frame hardware.

## ASSEMBLY

**NOTE: Before tightening axle hardware, center axle with frame. When hardware is tight, axle should not move.**

9. Install axle (P) and center axle with frame. Install and tighten hardware (Q):

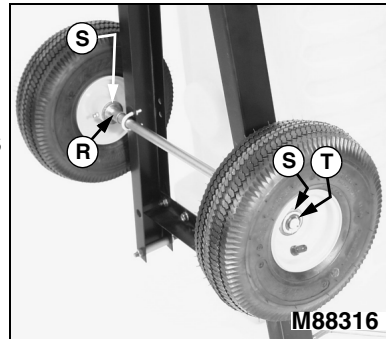
- (2) 1/4 in. Axle U-Bolts
- (4) 1/4 in. Flange Nuts



**NOTE: Install wheels so tire valve stems face to the outside of the sprayer frame.**

10. Install axle bushings, flat washers and wheels. Wheel hardware:

- (2) Axle Bushings (R)
- (4) Flat Washers (S)
- (2) E-Clip Snap Rings (T)



11. Lubricate wheels with John Deere multipurpose grease or an equivalent.

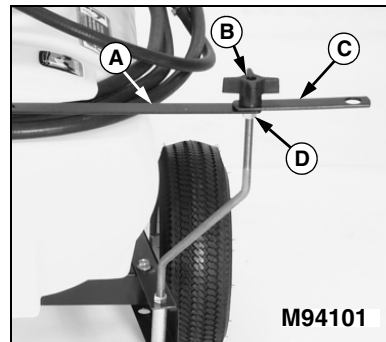
## ASSEMBLY

### Assemble Sprayer Boom

1. Install center boom and boom extensions on both left and right boom supports.

**15 Gallon Sprayer** - Install center boom (A) and boom extension (C). Retaining hardware:

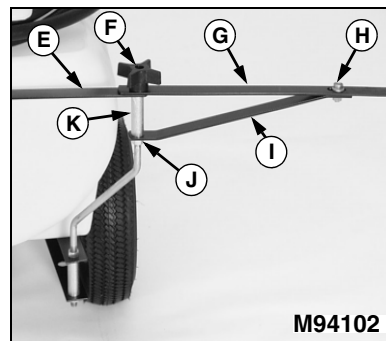
- (2) Locking Knobs (B)
- (2) 3/8 in. Nuts (D)



**25 Gallon Sprayer** - Install center boom (E), boom extension (G) and boom support (I).

Retaining hardware:

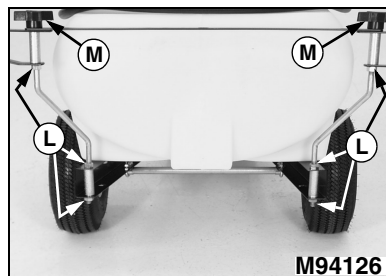
- (2) Locking Knobs (F)
- (2) 5/16 x 5/8 in. Serrated Flange Bolts (H)
- (2) 5/16 in. Serrated Flange Nuts (H)
- (2) 3/8 in. Nuts (J)
- (2) Boom Spacers (K)



2. Level, straighten and center boom with back of sprayer.

3. Tighten hardware:

- (6) 3/8 in. Nuts (L)
- (2) Locking Knobs (M)



## ASSEMBLY

4. Install hoses into boom:

**15 Gallon Sprayer** - Install hoses into both boom spray tip mounting holes.

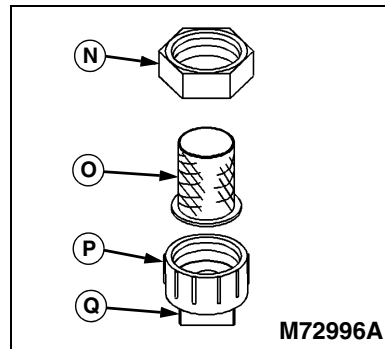
**25 Gallon Sprayer** - Install hoses into all three boom spray tip mounting holes.



**NOTE: Prior to tightening the spray tip fitting cap nuts, make sure spray tips are parallel with boom.**

5. Install spray tips:

- Spray Tip Fitting Lock Nut (N)
- Spray Tip Screen (O)
- Spray Tip Fitting Cap Nut (P)
- Spray Tip (Q)



## ASSEMBLY

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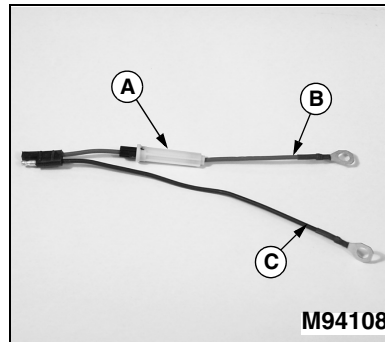
### Install Wiring Harness to Battery

**IMPORTANT:** To help prevent electrical spark, install red wire to the positive (+) battery terminal first. Then install black wire to negative (–) battery terminal.

To prevent damage, make sure hood does not close on wires or connectors.

1. Open fuse holder (A). Fuse holder should contain a 15 A / 32 V fuse. Make sure fuse filament is not broken. Install fuse and close fuse holder.

2. Open tractor hood. If battery is mounted low and behind the grille, carefully unsnap top of grille to provide access to battery terminals.



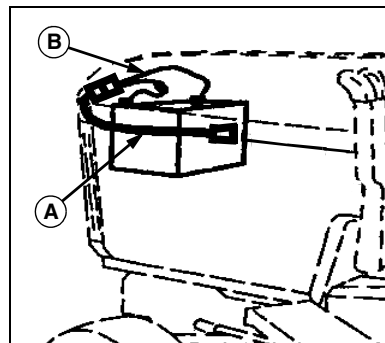
3. Remove nut from positive (+) battery cable clamp. Install red lead (B) onto clamp bolt. Install and tighten nut completely.

4. Remove nut from negative (–) battery cable clamp. Install black lead (C) onto clamp bolt. Install and tighten nut completely.

### Install Wiring Harness Extension (For Tractors With Upper Front-Mounted Battery)

**NOTE:** Wiring Harness Extension (Part No. AM105666) is required.

Connect wiring harness extension (A) to fused harness (B) at battery. Make sure the harness passes between the left side hood rods.



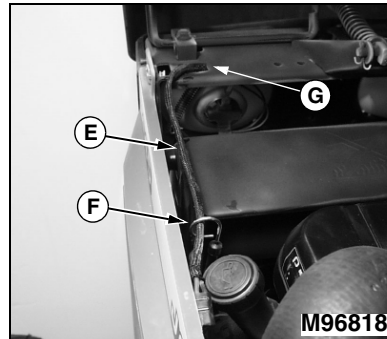
## ASSEMBLY

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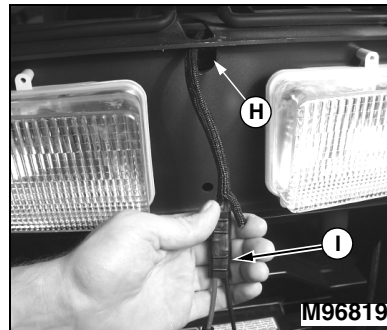
### Install Wiring Harness Extension (For Tractors With Lower Front-Mounted Battery)

**NOTE: Wiring Harness Extension (Part No. AM105666) is required.**

1. Route wiring harness extension (E) through dipstick (F) and hole (G).

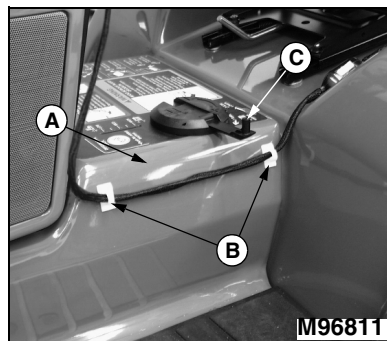


2. Bring other end of extension through hole (H) and connect it to battery lead plug (I). Then snap grille in place.



### Install Wire Clips

1. Clean foot rest side panel (A) at left side of tractor with mild detergent or isopropyl alcohol. Dry thoroughly.
2. Affix wire clips (B) to panel. Position the clips as shown so that when the sprayer main wiring harness is installed (see the INSTALLING section), it will not interfere with deck height adjustment crank (C), if equipped.



## SPECIFICATIONS

### **Model 15 Gallon Wheeled Sprayer**

|                       |                                  |
|-----------------------|----------------------------------|
| Tank                  | 57 L (15 gallon)                 |
| Pump:                 |                                  |
| • Type                | Electric Motor and Diaphragm     |
| • Manufacturer        | Shurr Flo                        |
| • Current Draw        | 7 amp                            |
| • Fuse                | 15 amp                           |
| • System Pressure     | 620 kPa (90 psi)                 |
| Spray Rate            | 4.8 L/min. (1.25 U.S. gal./min.) |
| Suction Hose Strainer | Stainless Steel                  |
| Spray Tip Material    | Two 90° Stainless Steel          |
| Handgun Material      | Plastic                          |
| Handgun Adjustment    | Fan To Stream                    |
| Weight:               |                                  |
| Empty                 | 20 kg (44 lb)                    |
| Full                  | 74 kg (164 lb)                   |

## SPECIFICATIONS

### **Model 25 Gallon Wheeled and Portable Sprayers**

|                            |                                  |
|----------------------------|----------------------------------|
| Tank                       | 95 L (25 gallon)                 |
| Pump:                      |                                  |
| • Type                     | Electric Motor and Diaphragm     |
| • Manufacturer             | Shurr Flo                        |
| • Current Draw             | 7 amp                            |
| • Fuse                     | 15 amp                           |
| • System Pressure          | 620 kPa (90 psi)                 |
| Spray Rate                 | 5.9 L/min. (1.56 U.S. gal./min.) |
| Suction Hose Strainer      | Stainless Steel                  |
| Spray Tip Material         | Three 90° Stainless Steel        |
| Handgun Material           | Plastic                          |
| Handgun Adjustment         | Fan To Stream                    |
| Weight:                    |                                  |
| Empty (25 Gallon Wheeled)  | 24 kg (53 lb)                    |
| Empty (25 Gallon Portable) | 12 kg (27 lb)                    |
| Full (25 Gallon Wheeled)   | 115 kg (253 lb)                  |
| Full (25 Gallon Portable)  | 103 kg (227 lb)                  |

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# JOHN DEERE SERVICE LITERATURE

## Order Form

John Deere Distribution Center - Department S/P P.O. Box 186,  
Moline, IL 61266-0186

To order these publications, call 1-800-522-7448. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product when you call. Make checks payable to John Deere.

**Name** \_\_\_\_\_

**Address** \_\_\_\_\_

**City** \_\_\_\_\_

**State** \_\_\_\_\_

**Zip** \_\_\_\_\_ **Phone:** (    ) \_\_\_\_\_

| Title                                                                                                                                                                    | Number    | Price                                                     | Qty | Total |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------|-----|-------|
| Parts Catalog                                                                                                                                                            | PC2231    | (Call<br>1-800-<br>522-7448<br>for<br>current<br>prices.) |     |       |
| Operator's Manual                                                                                                                                                        | OMM135137 |                                                           |     |       |
|                                                                                                                                                                          |           |                                                           |     |       |
| Sub-total                                                                                                                                                                |           |                                                           |     |       |
| State Sales Tax (Illinois & Iowa only)                                                                                                                                   |           |                                                           |     |       |
| Shipping & Handling                                                                                                                                                      |           |                                                           |     |       |
| Total                                                                                                                                                                    |           |                                                           |     |       |
| Method of Payment<br>___ Check/Money Order Enclosed<br>___ John Deere Credit Card<br>___ MasterCard<br>___ Visa<br>___ American Express<br>___ Discover<br>___ Farm Plan |           |                                                           |     |       |
| Credit Card Acct. No. (13 or 16 digits) _____ - _____ - _____ - _____                                                                                                    |           |                                                           |     |       |
| Expiration Date:<br>_____                                                                                                                                                |           | Signature:<br>_____                                       |     |       |

## NOTES

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## QUALITY DOESN'T END WHEN YOU INVEST IN A DEERE

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John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your John Deere dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.

### **Step 1**

#### **Refer to your operator's manual**

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

### **Step 2**

#### **Contact your dealer**

- A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your dealer's trained parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner.
- D. If your questions or problems are not resolved by the dealer, then go to Step 3.

### **Step 3**

#### **Call the John Deere Customer Communications Center**

- A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, call the Customer Communications Center.
- B. For prompt, effective service, please have the following ready before you call:
  - The name of the dealer with whom you've been working.
  - Your equipment model number.
  - Number of hours on machine (if applicable).
  - Your 13-digit serial number which you recorded on the inside front cover of this manual.
  - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 and our advisor will work with your dealer to investigate your concern.

