

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Wheeled and Portable Sprayers
15, 25 and 40 Gallon

OPERATOR'S MANUAL



OMM142743 K9

North American Version
Litho in U.S.A.



S E L F



O M M 1 4 2 7 4 3 K 9

INTRODUCTION

Thank You for Purchasing a John Deere Product

We appreciate your business and wish you many years of safe and satisfied use of your machine.

Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine when you sell it.

Reading your operator's manual will help you and others avoid personal injury or damage to the machine. Information given in this manual will provide the operator with the safest and most effective use of the machine. Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

Sections in your operator's manual are placed in a specific order to help you understand all the safety messages and learn the controls so you can operate this machine safely. YOU can also use this manual to answer any specific operating or servicing questions. A convenient index located at the end of this book will help you to find needed information quickly.

The machine shown in this manual may differ slightly from your machine, but will be similar enough to help you understand our instructions.

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 (----->), the item referred to is hidden from view.

Special Messages

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the highlighted information carefully to avoid injury and machine damage.

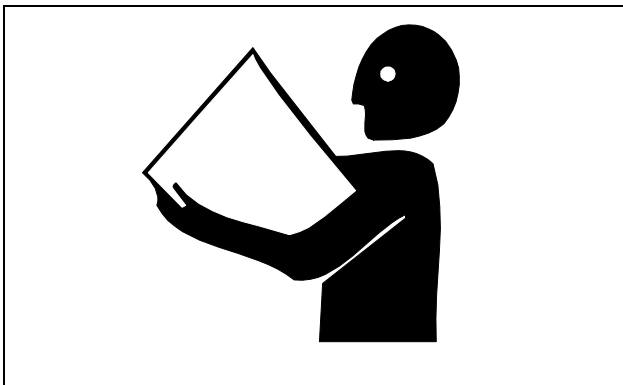


CAUTION: Avoid injury!

This symbol and text highlight potential hazards or death to the operator or bystanders may occur if the hazards or procedures are ignored.

IMPORTANT: Avoid damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

NOTE: General information is given throughout the manual that may help the operator in the operation of the machine.



PRODUCT IDENTIFICATION

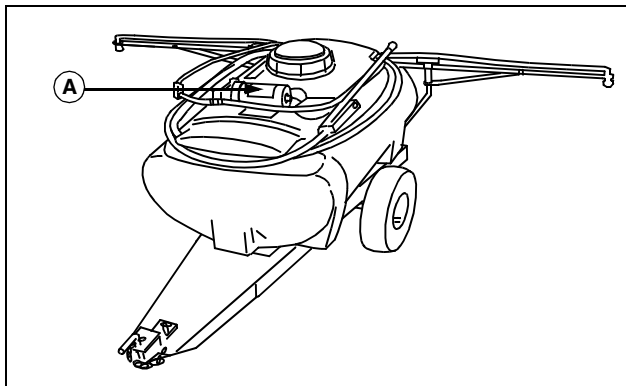
Record Identification Numbers

Wheeled and Portable Sprayers:

15, 25 and 40 Gallon, Serial No. (050001 -)

If you need to contact an Authorized Service Center for information on servicing, always provide the product model and serial number.

You will need to locate the model and serial number for the machine and record the information in the spaces provided below.



Picture Note: Wheeled Sprayer Shown

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

SERIAL NUMBER (A):

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OMM142743 K9 - English

SAFETY

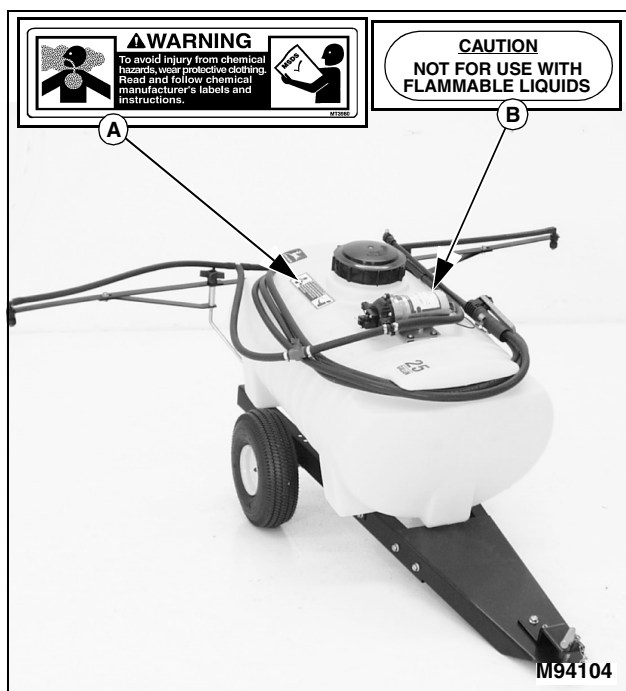
Safety-Alert Symbol



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



Picture Note: 25 Gallon Wheeled Sprayer Shown

WARNING (A)

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

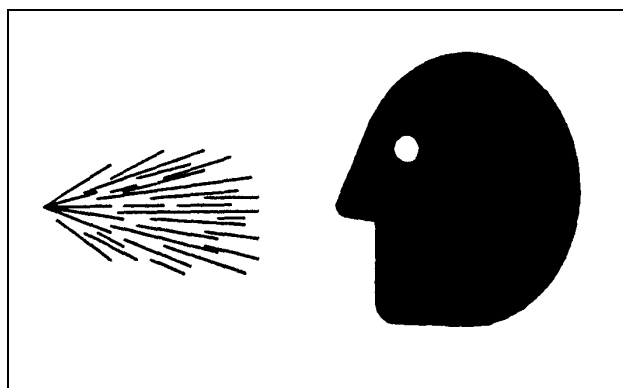
CAUTION (B)

Not for use with flammable liquids.

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.



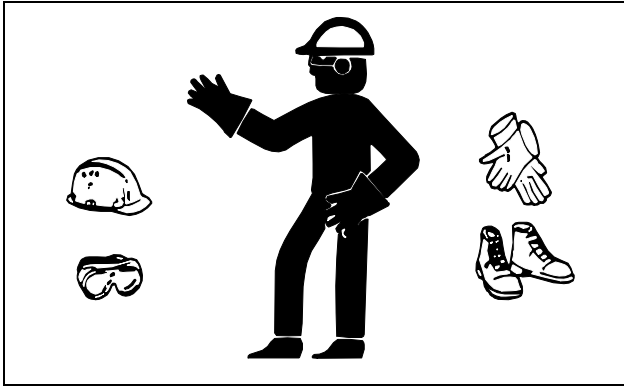
- If spray comes in contact with your body, immediately

SAFETY

follow directions on chemical container pertaining to spray material.

- Keep spare filters available for replacement.

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.

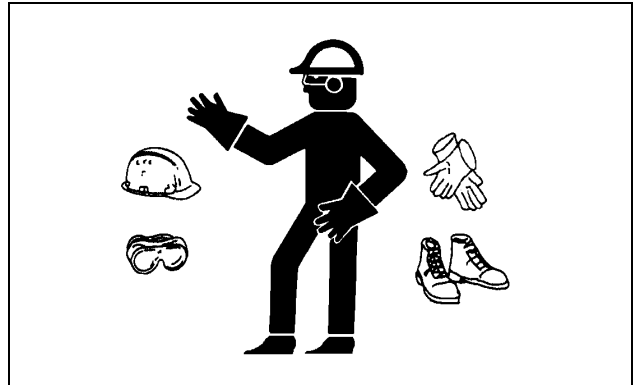
Park Vehicle Safely

- 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.

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.

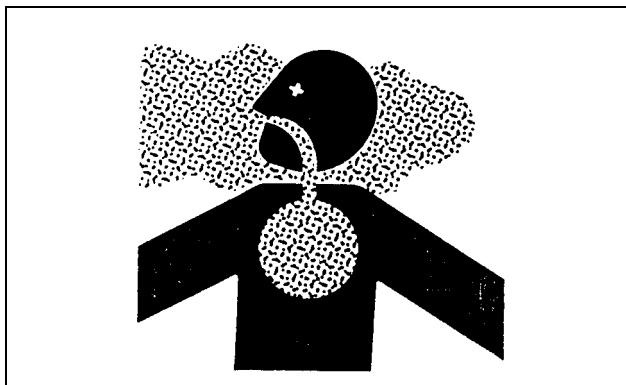


Wear Appropriate Clothing

- 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.

SAFETY

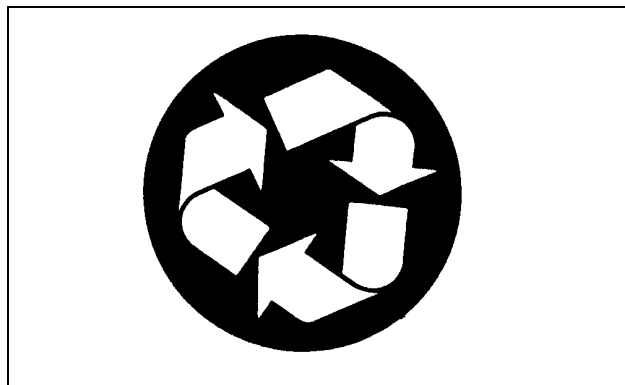
Use Chemicals Safely



- 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.



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.

PREPARING VEHICLE

Tractor Requirements (15, 25 and 40 Gallon Wheeled Sprayers)

NOTE: 40 gallon sprayer is not recommended for use with tractors smaller than the GT Series.

Sprayer Weight:

- **15 Gallon Sprayer**, Filled with liquid is 74 kg (164 lb.)
- **25 Gallon Sprayer**, Filled with liquid is 115 kg (253 lb.)
- **40 Gallon Sprayer**, Filled with liquid is 177 kg (390 lb.)

IMPORTANT: Avoid damage! 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.

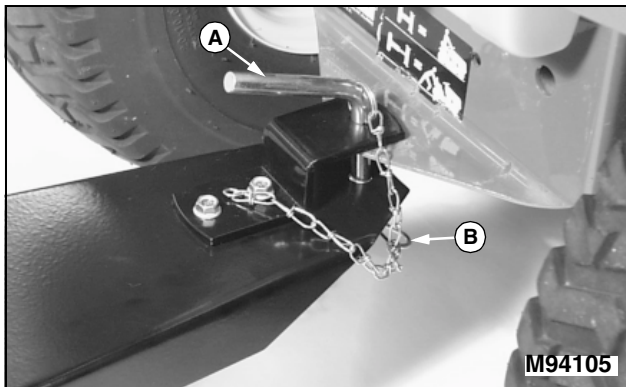
Vehicle Requirements (25 Gallon Portable Sprayer)

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.

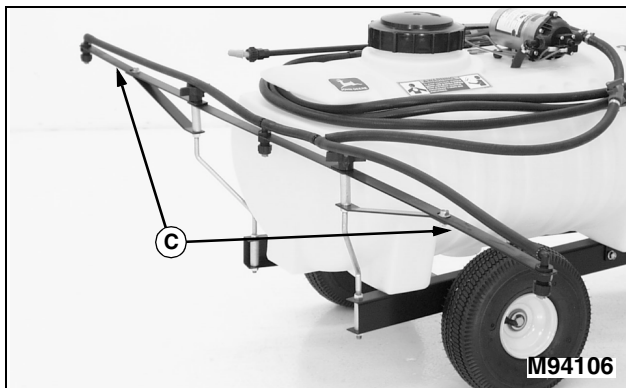
You should pay particular attention to what the sprayer will be transported with. Be sure that the unit is capable of carrying the 25 gallon portable sprayer fully loaded. When loaded it will weigh about 103 kg (227 lb.), so it is important that the unit be secured properly and that the carrying vehicle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

INSTALLING

Attaching 15 and 25 Gallon Wheeled Sprayer to Tractor



1. Pull sprayer in line with the hitch on the tractor.
2. Pull sprayer forward until hitch on tractor is between clevis on sprayer.
3. Put hitch pin (A) into hole in clevis and through hitch.
4. Fasten with spring locking pin (B).

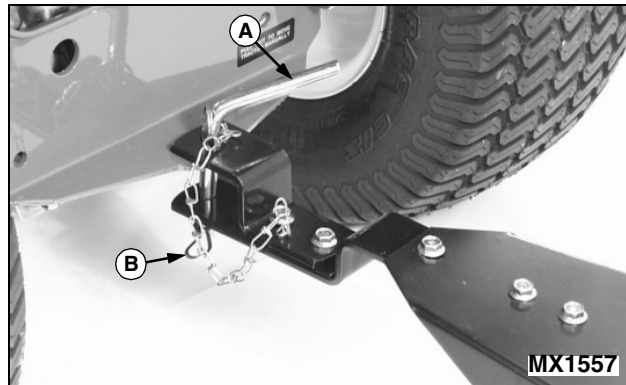


Picture Note: 25 Gallon Sprayer

5. Swing out boom extensions (C) and lock in place.
6. Connect sprayer pump to tractor battery.

Attaching 40 Gallon Wheeled Sprayer to Tractor

NOTE: In order for the sprayer to completely empty the tank, the sprayer frame should be as level as possible. Adjust the sprayer drawbar to match the height of the tractor hitch. See Operating Section.



1. Pull sprayer in line with the hitch on the tractor.
2. Pull sprayer forward until hitch on tractor is between clevis on sprayer.
3. Put hitch pin (A) into hole in clevis and through hitch.
4. Fasten with spring locking pin (B).



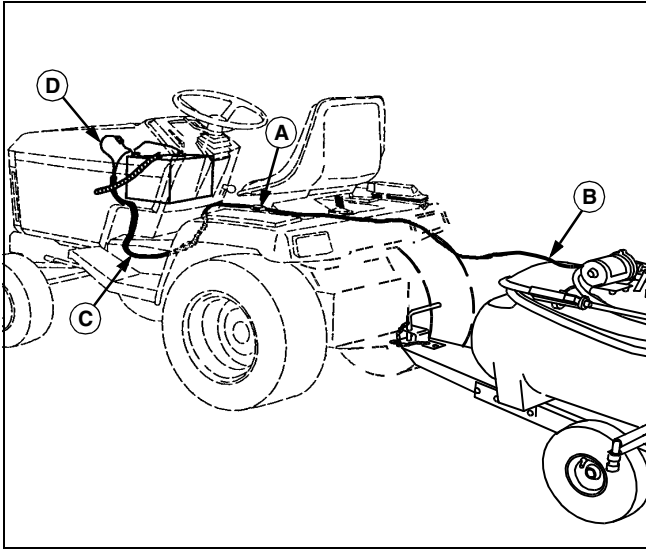
5. Swing out boom extensions (C) and lock in place.
6. Connect sprayer pump to tractor battery.

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)



Picture Note: Wheeled Sprayer Shown

1. Open tractor hood.

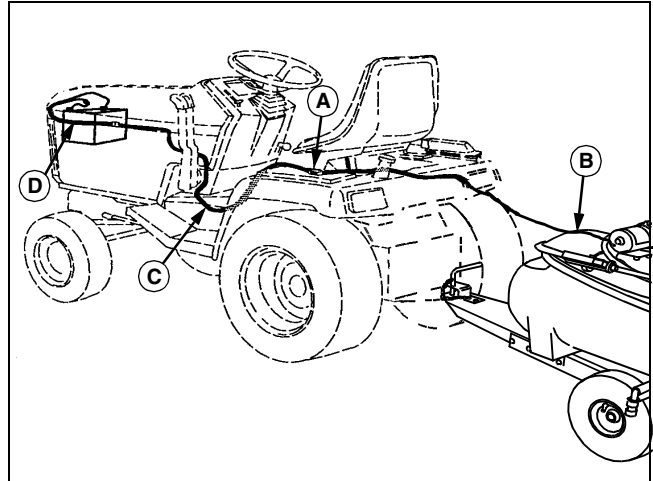
NOTE: Switch (A) is not located at center of main wiring harness. The harness plug connector nearest to the switch gets connected to the pump leads.

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.

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

4. Connect other end of main harness to fused battery lead (D).
5. Close tractor hood.

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



Picture Note: Wheeled Sprayer Shown

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.

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

4. Make sure harness extension (D) passes between the left side hood rods. Connect the main harness to the wiring harness extension.
5. Close tractor hood.

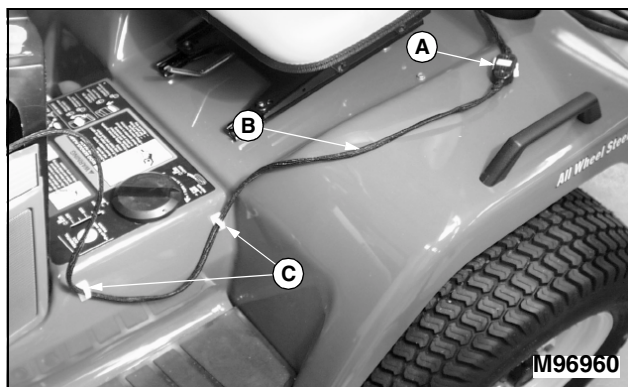
Install Wiring Harness (For Tractors With Lower Front-Mounted Battery)

1. Open tractor hood.

INSTALLING

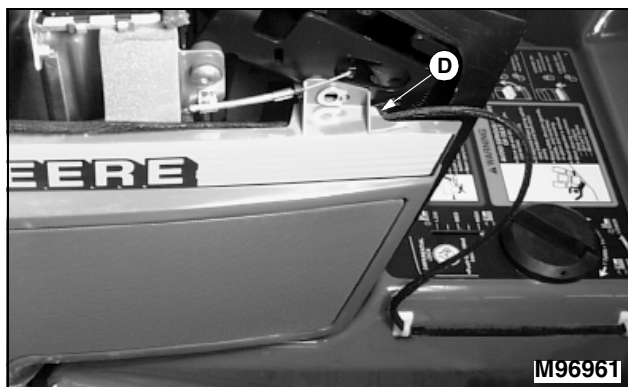
NOTE: Switch (A) is not located at center of main wiring harness. The harness wiring connector nearest to the switch gets connected to the pump leads.

6. Close tractor hood.



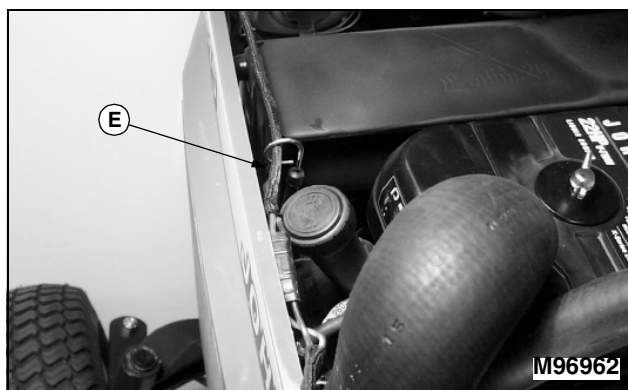
2. Connect main wiring harness (B) to pump leads.

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.

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



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

REMOVING

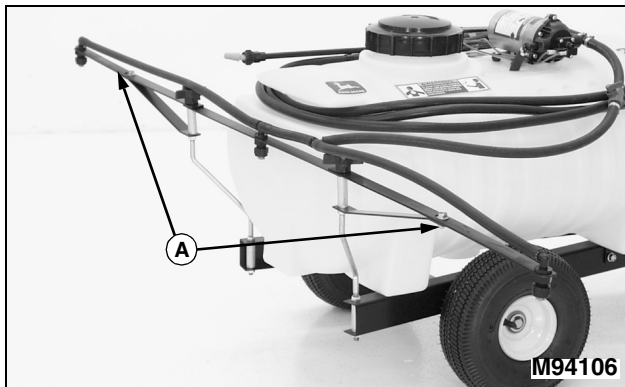
Park Vehicle Safely

- 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.

7. Pull sprayer back from tractor.
8. Put hitch pin in sprayer hitch for storage.

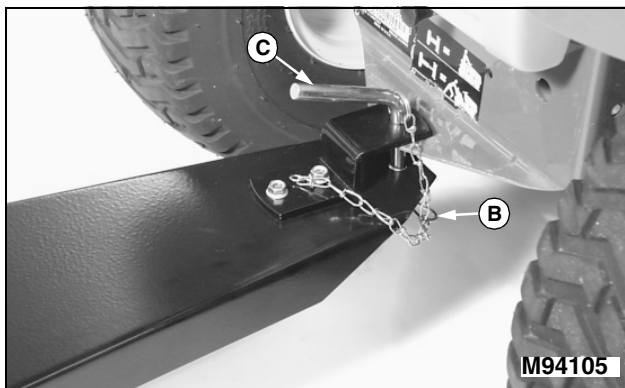
Removing Sprayer

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.



Picture Note: 25 Gallon Sprayer

5. Wheeled Sprayers - Fold in boom extensions (A).



6. Pull spring locking pin (B) out of hitch pin (C). Remove hitch pin (C).

OPERATING

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.

Sprayer Weight:

- **15 Gallon Sprayer**, Filled with liquid is 74 kg (164 lb.)
- **25 Gallon Sprayer**, Filled with liquid is 115 kg (253 lb.)
- **40 Gallon Sprayer**, Filled with liquid is 177 kg (390 lb.)

Spraying Tips

- Check sprayer tip height. Adjust sprayer tip height, if needed, before operating. (See Adjusting Tip Height and Width in this section.)
 - **15 and 25 Gallon Sprayer**, 43 cm (17 in.)
 - **40 Gallon Sprayer**, 53 cm (21 in.)
- 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 and 40 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.

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 m² (15,840 sq. ft.) of spray coverage per tank. Plan on about 10 percent overlap, so put enough chemical in the tank for 1301 m² (14,000 sq. ft.) of spray coverage.

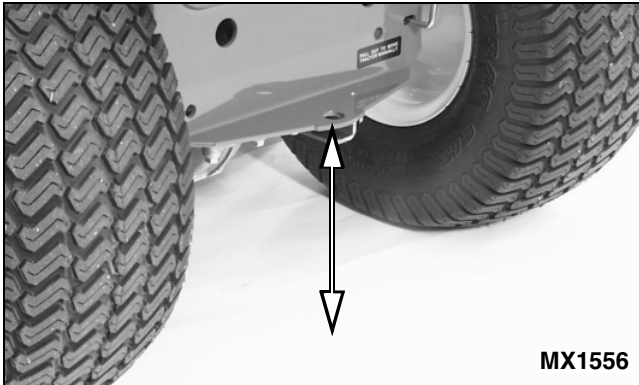
25 GALLON SPRAYER APPLICATION: The 25 Gallon Sprayer operates at a fixed pressure of 620 kPa (90 psi). This yields 16 minutes of spraying time using the spray boom or 42 minutes of spraying time using the handgun. When operating the spray boom, plan on driving about 4.0 km/h (2.5 mph) or 67 m/min. (220 fpm). That provides 2453 m² (26,400 sq. ft.) of spray coverage per tank. Plan on about 10 percent overlap, so put enough chemical in the tank for 2230 m² (24,000 sq. ft.) of spray coverage.

40 GALLON SPRAYER APPLICATION: The 40 Gallon Sprayer operates at a fixed pressure of 620 kPa (90 psi). This yields 25 minutes of spraying time using the spray boom or 66 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 5,023 m² (54,065 sq. ft.) of spray coverage per tank. Plan on about 10 percent overlap, so put enough chemical in the tank for 4,459 m² (48,000 sq. ft.) of spray coverage.

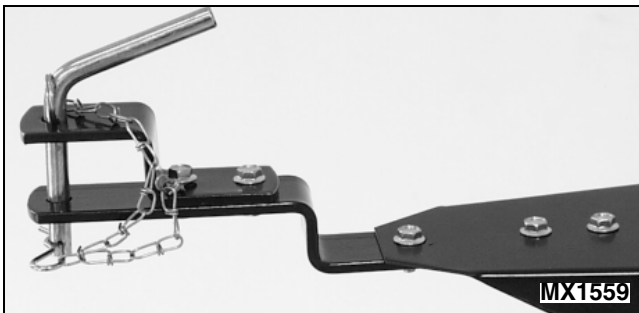
OPERATING

Adjusting Drawbar Height (40 Gallon Sprayer Only)

NOTE: In order for the sprayer to completely empty the tank, the sprayer frame should be as level as possible. Adjust the sprayer drawbar to match the height of the tractor hitch.



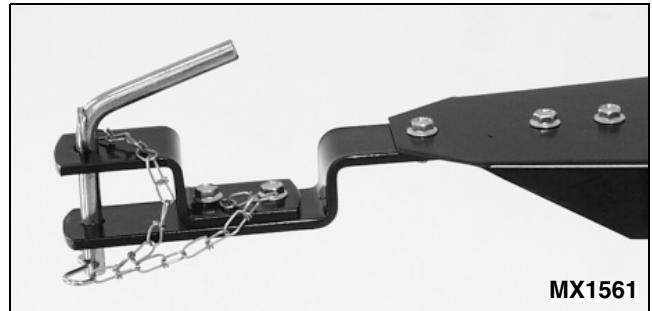
1. Measure distance from tractor hitch to the ground.
2. Assemble sprayer drawbar to match tractor hitch height:



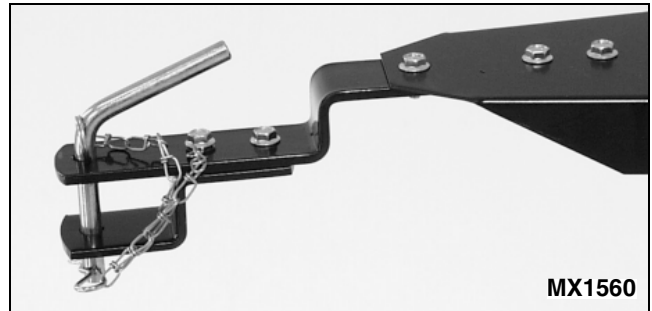
- Configure drawbar as shown for 30 cm (12 in.) height.



- Configure drawbar as shown for 27 cm (10.5 in.) height.



- Configure drawbar as shown for 23 cm (9 in.) height.



- Configure drawbar as shown for 18 cm (7 in.) height.

Adjusting Tip Height and Width

1. Attach sprayer to tractor.

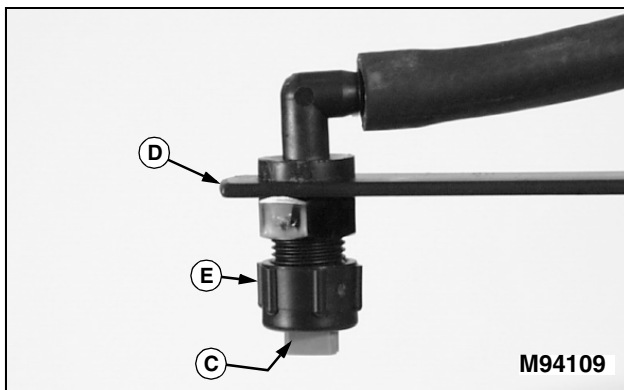


2. Measure from spray tip to ground. Distance to ground (A) should be approximately:

- **15 and 25 Gallon Sprayer**, 43 cm (17 in.)
- **40 Gallon Sprayer**, 53 cm (21 in.)

If necessary, adjust boom height by raising or lower the boom on the threaded boom supports (B).

OPERATING



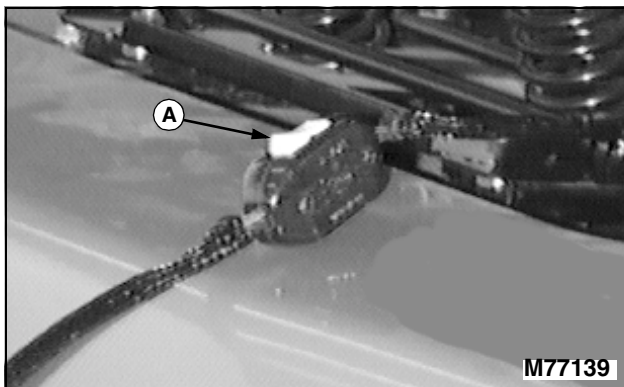
3. Check spray tips (C). Tips should be aligned with boom (D) as shown. If necessary, loosen spray tip cap nut (E). Align spray tip (C) and tighten cap nut.
4. Test spray pattern with water on driveway or sidewalk. Each spray tip pattern should spread out to the RIGHT-HAND and LEFT-HAND sides, rather 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 injury! 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.

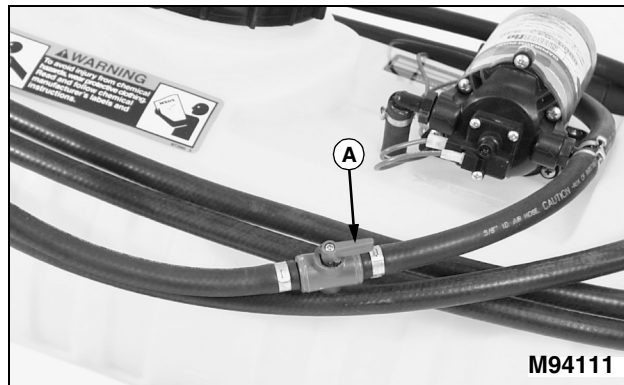
IMPORTANT: Avoid damage! Operate sprayer with transport vehicle running to avoid draining down battery.



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

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.



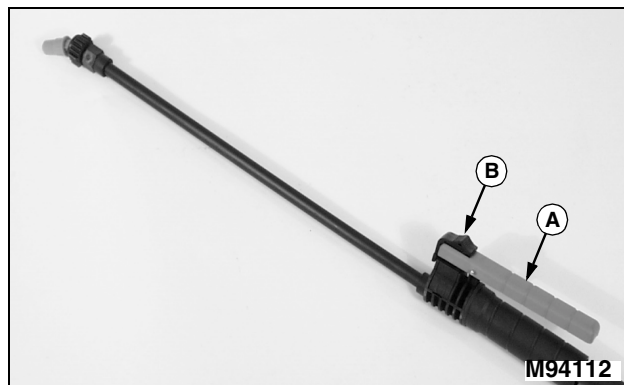
TO USE HANDGUN: Turn lever (A) so that it is perpendicular with hose. You can now use the handgun for spraying.

TO USE SPRAYER BOOM: Turn lever (A) so that it is parallel 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

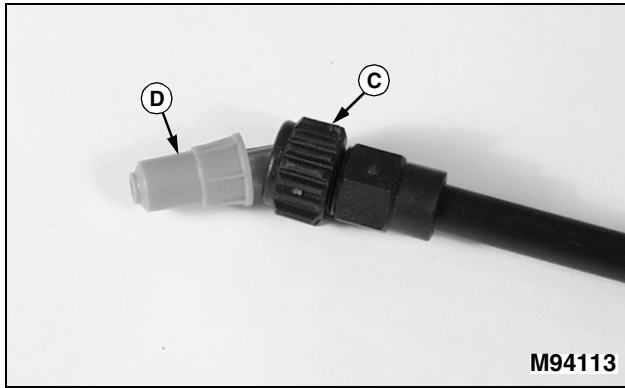
NOTE: Removal of spray tip (C) allows for quick cleaning / rinsing of sprayer tank.

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.

OPERATING



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

Service Literature

If you would like a copy of the Parts Catalog or Technical Manual for this machine call:

- **U.S. & Canada:** 1-800-522-7448.
- **All Other Regions:** Your John Deere dealer.

Parts

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.

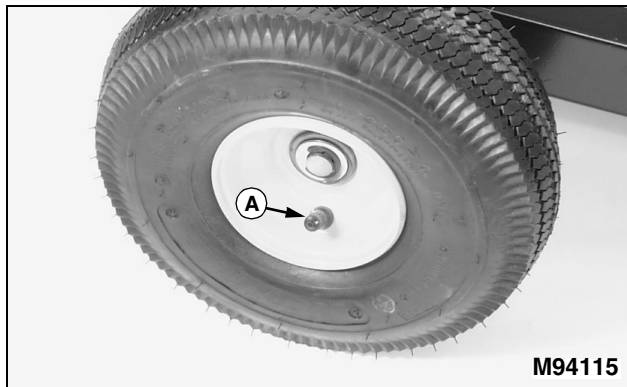
When you order parts, your John Deere dealer needs your machine serial number and engine serial number. These are the numbers that you have recorded on the inside front cover of this manual.

ITEM	PART 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.)

SERVICE

Checking Tire Pressure



Check tire pressure at point (A).

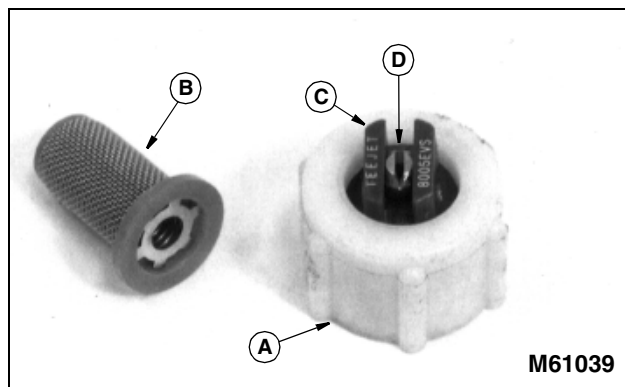
- Tire pressure should be 207 kPa (30 psi).
- Tire Size:
 - 15 and 25 Gallon Sprayer, 4.10 x 3.50 - 4
 - 40 Gallon Sprayer, 15 x 6.00 - 6

Lubricating Wheels



IMPORTANT: Avoid damage! DO NOT add lubrication. Wheels are equipped with nylon bushings and require no additional lubrication.

Cleaning Spray Nozzle

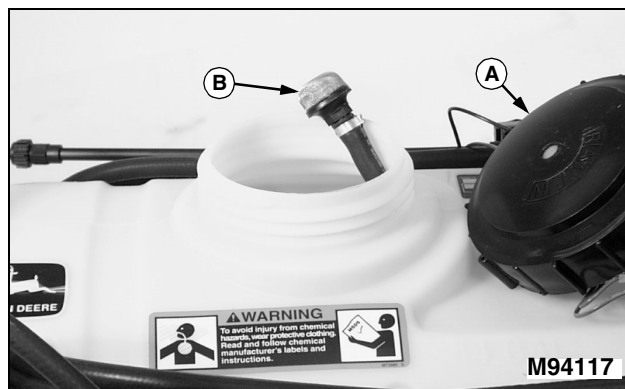


1. Remove spray nozzle (A) from sprayer.
2. Disassemble filter (B) and spray tip (C).

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.

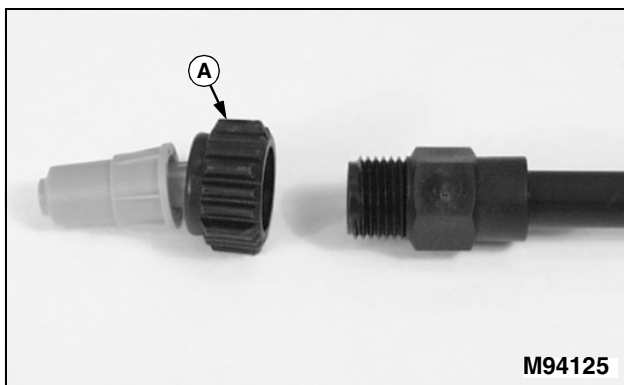
Cleaning Pump Suction Screen



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.

SERVICE

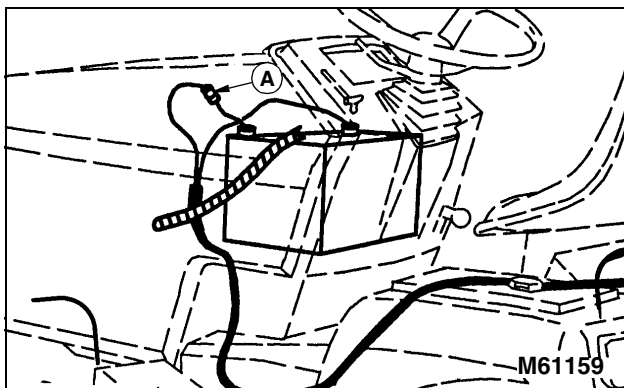
Cleaning Handgun Nozzle



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

Changing Fuse

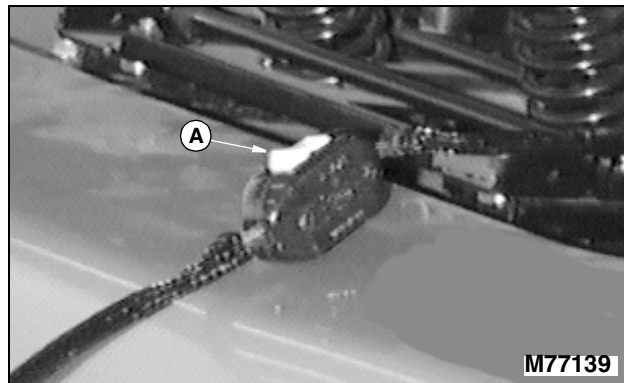
IMPORTANT: Avoid damage! AVOID ELECTRICAL SYSTEM OVERLOAD! Replace faulty fuse with one of the same amperage rating (15 amp). Repeated fuse failures indicates a problem in the circuit that must be corrected.



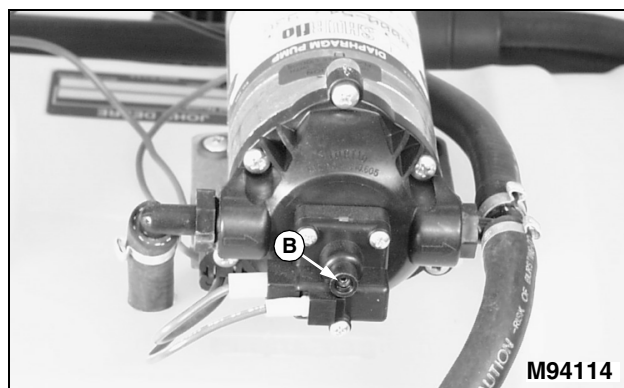
1. Open tractor hood.
2. Hold each end of fuse holder (A) located on positive battery terminal.
3. Twist holder open.
4. Remove fuse.
5. Install new 15 amp fuse.
6. Twist holder closed.
7. Close tractor hood.

Adjusting Pump

IMPORTANT: Avoid damage! 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

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

STORAGE

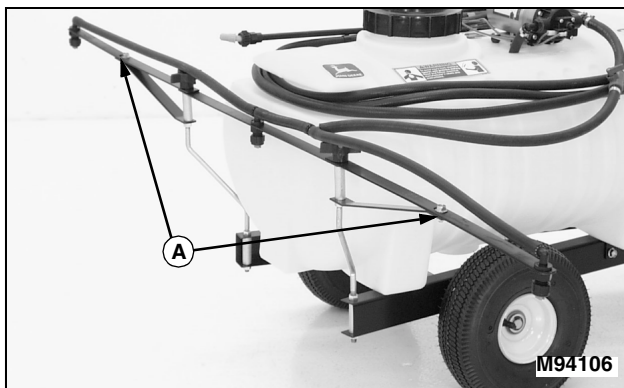
Store Sprayer Safely



CAUTION: Avoid injury! 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. Rinse tank, pump, handgun and all hoses thoroughly with fresh clean water.
3. Repeat step 2 several times.
4. Wipe out sump with a clean cloth or paper towel.
5. Drain hoses and pump filter.

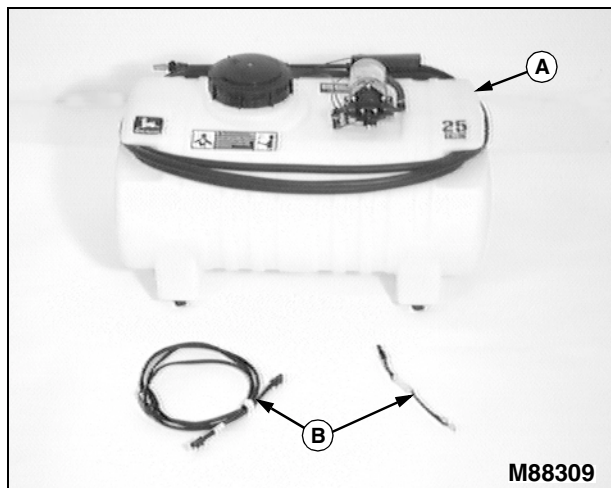


Picture Note: 25 Gallon Sprayer

6. If unit is a wheeled sprayer, fold in boom extensions (A).
7. Remove sprayer from transport vehicle. See Removing Sprayer in the REMOVING section.
8. Check sprayer for worn or damaged parts. Replace parts as needed.
9. Tighten loose hardware.
10. Store sprayer in a place where it will not freeze.

ASSEMBLY

Identify Parts (25 Gallon Portable Sprayer)

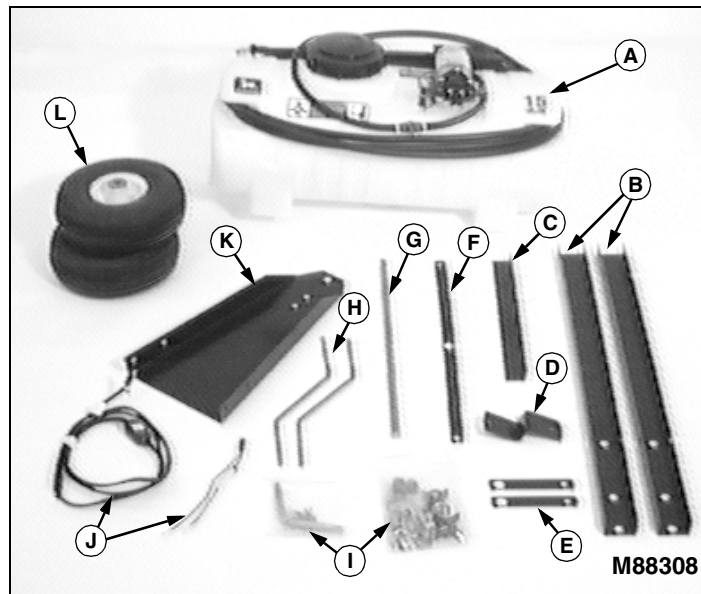


A - 25 Gallon Sprayer Base Unit (Tank with pump and hoses attached)

B - Wiring Harness

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

Identify Parts (15 Gallon - Wheeled Sprayer)



A - 15 Gallon Sprayer Base Unit (Tank with pump and hoses attached)

B - (2) Frame Rails

C - Rear Tank Support

D - Hitch Clevis

E - (2) Boom Extensions

F - Center Boom

G - Axle

H - (2) Boom Support

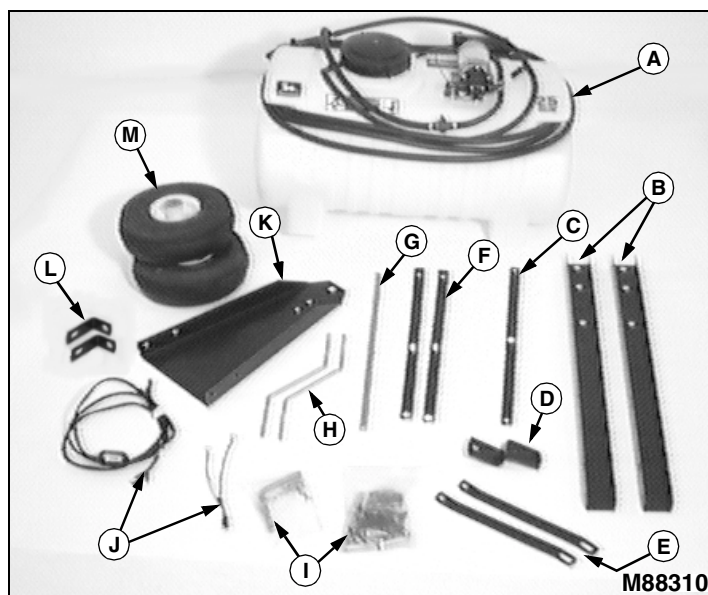
I - (2) Bag of Parts

J - Wiring Harness

K - Hitch Frame

L - (2) Wheels

Identify Parts (25 Gallon - Wheeled Sprayer)



A - 25 Gallon Sprayer Base Unit (Tank with pump and hoses attached)

B - (2) Frame Rails

C - Center Boom

D - Hitch Clevis

E - (2) Boom Supports

F - (2) Boom Extensions

G - Axle

H - (2) Boom Supports

I - (2) Bag of Parts

J - Wiring Harness

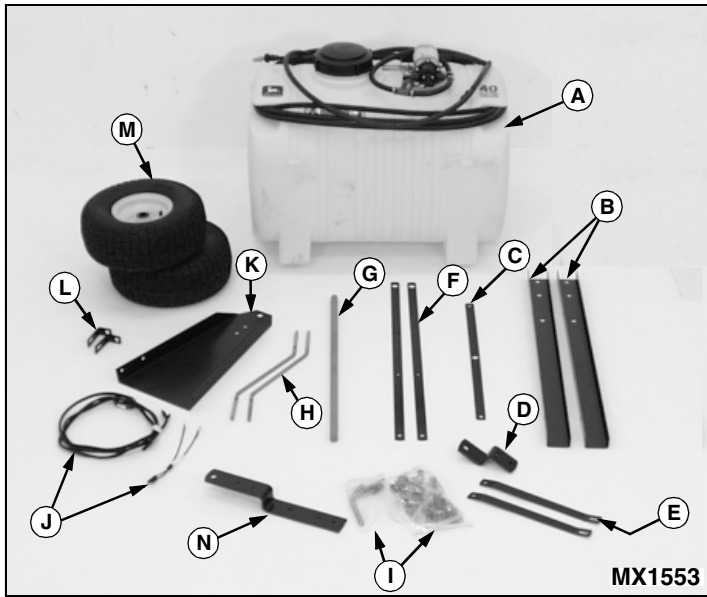
K - Hitch Frame

L - (2) Front Tank Supports

M - (2) Wheels

ASSEMBLY

Identify Parts (40 Gallon - Wheeled Sprayer)

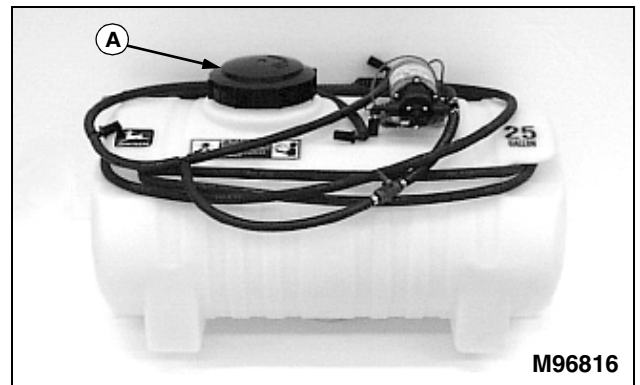


- A - 40 Gallon Sprayer Base Unit (Tank with pump and hoses attached)**
- B - (2) Frame Rails**
- C - Center Boom**
- D - Hitch Clevis**
- E - (2) Boom Supports**
- F - (2) Boom Extensions**
- G - Axle**
- H - (2) Boom Supports**
- I - (2) Bag of Parts**
- J - Wiring Harness**
- K - Hitch Frame**
- L - (2) Front Tank Supports**
- M - (2) Wheels**
- N - Drawbar Extension**

Bag of Parts (15, 25 and 40 Gallon Wheeled Sprayers)

Part Description	15 Gal.	25 Gal.	40 Gal.
Bolts, Flanged, 5/16 x 5/8 in.	12	14	12
Bolts, Flanged, 5/16 x 1 in.	-	-	5
Nuts, Flanged, 5/16 in.	8	10	17
E-Clip Snap Rings, 5/8 in.	2	2	-
E-Clip Snap Rings, 1 in.	-	-	2
Axle U-Bolts, 5/16 in.	-	-	2
Axle U-Bolts, 1/4 in.	2	2	-
Nuts, Flanged, 1/4 in.	4	4	-
Nuts, 3/8 in.	6	6	6
Locking Knobs	2	2	2
Boom Spacers	2	4	4
Axle Spacers	2	2	2
Flat Washers	4	4	4
Wire Clips	2	2	2
Tethered Chain Assembly: Includes hitch pin, chain, spring locking pin and spring locking ring.	1	1	1
Spray Tips	2	3	3
Spray Tip Screen	2	3	3
Spray Tip Fitting Lock Nut	2	3	3
Spray Tip Fitting Cap Nut	2	3	3

Clean Sprayer Tank (All Models)

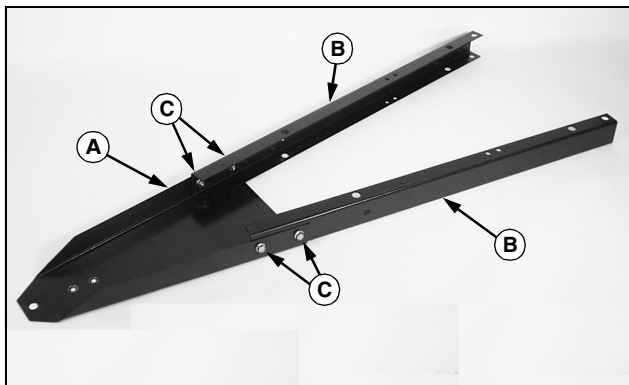


1. Remove tank filler cap (A).
2. Spray over all inside surfaces of tank with low pressure garden hose.
3. Skim all plastic shavings or other debris from the water.
4. Once clean, empty the tank and install filler cap.

ASSEMBLY

Assemble Sprayer

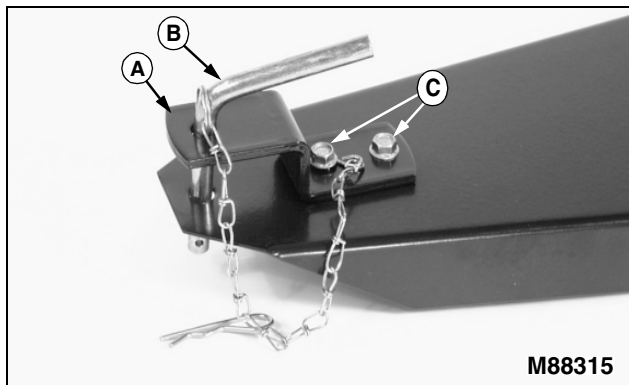
Attach Frame Rails



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. Flange Bolts
 - (4) 5/16 in. Flange Nuts

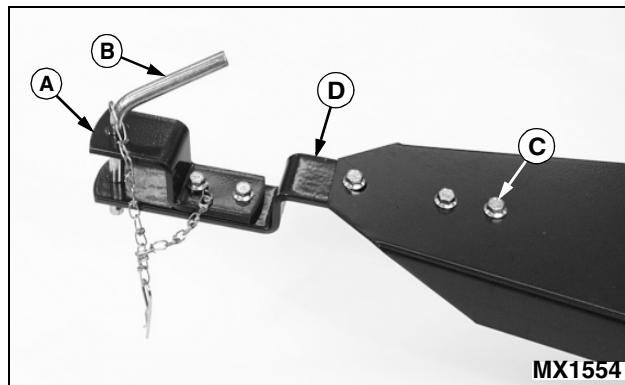
Install Hitch Assembly



• **15 and 25 Gallon Sprayer** - Install hitch clevis (A) and tethered chain assembly (B). Install and tighten hardware (C):

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

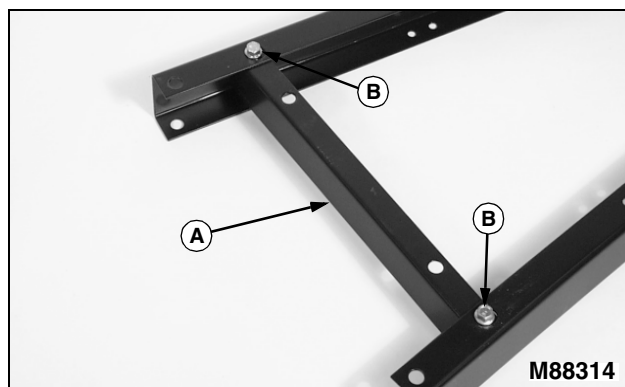
NOTE: This hitch can be set-up into four different positions, see Operating Section for instructions on how to assemble for different hitch heights.



• **40 Gallon Sprayer** - Install drawbar extension (D) (to bottom side of hitch frame), hitch clevis (A) and tethered chain assembly (B). Install and tighten hardware (C):

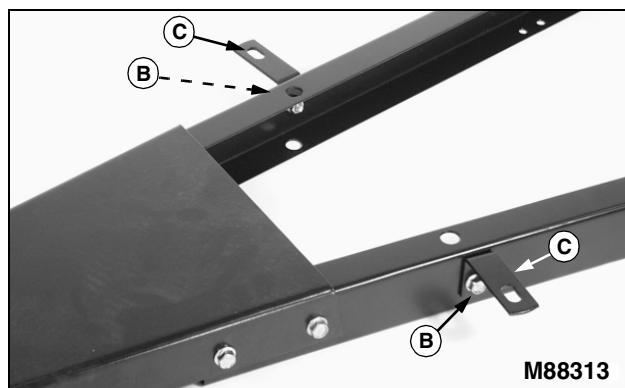
- (5) 5/16 x 1 in. Flange Bolts
- (5) 5/16 in. Flange Nuts

Install Tank Supports



• **15 Gallon Sprayer** - Locate and install rear tank support (A) on frame rails and install hardware (B):

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



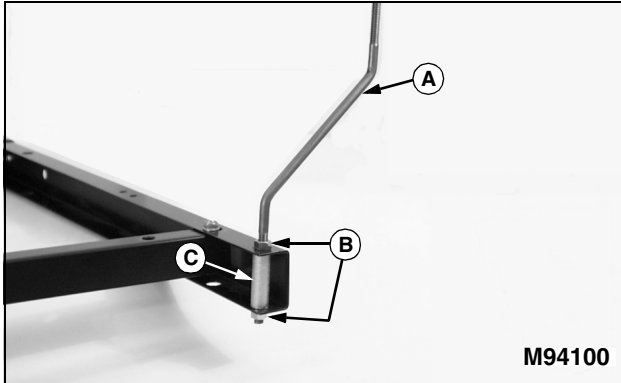
• **25 and 40 Gallon Sprayer** - Locate and install front tank

ASSEMBLY

supports (C) on frame rails and install hardware (B):

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

Assemble Boom Supports

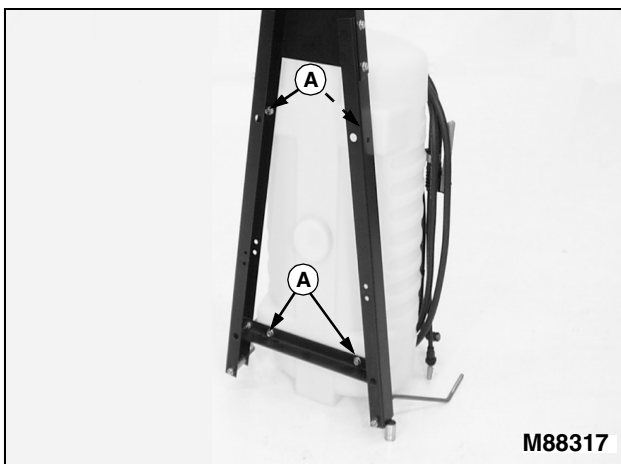


1. Install boom support (A), boom spacer (C) and hardware (B):
 - (4) 3/8 in. Nuts
2. Install boom supports on both left and right frame rails. Do not tighten boom hardware until entire boom is assembled.

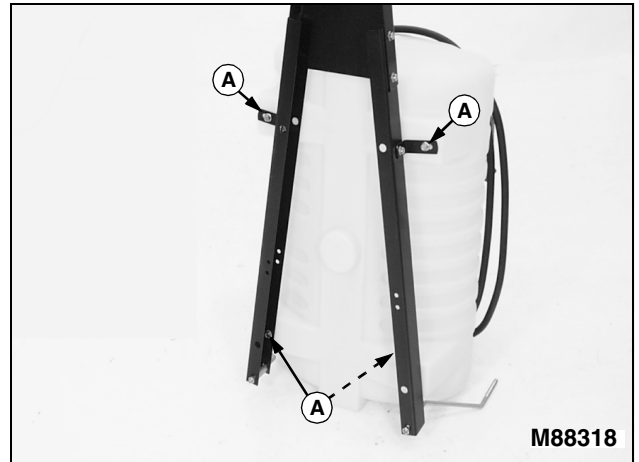
Install Sprayer Tank

IMPORTANT: Avoid damage! 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.



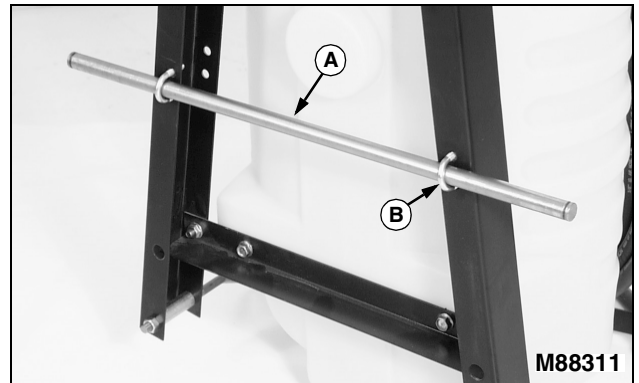
- **15 Gallon Sprayer** - Locate and install sprayer tank. Install and tighten hardware (A):
 - (4) 5/16 x 5/8 in. Flange Bolts



- **25 and 40 Gallon Sprayer** - Locate and install sprayer tank. Install and tighten hardware (A):
 - (4) 5/16 x 5/8 in. Flange Bolts
- **TIGHTEN ALL FRAME HARDWARE.**

Install Axle and Wheels

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



1. Install axle (A) and center axle with frame. Install and tighten hardware (B):

NOTE: The 15 and 25 gallon sprayer uses 1/4 in. hardware and the 40 gallon sprayer uses 5/16 in. hardware.

- (2) Axle U-Bolts
- (4) Flange Nuts

ASSEMBLY

IMPORTANT: Avoid damage! DO NOT add lubrication. Wheels are equipped with nylon bushings and require no additional lubrication.

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

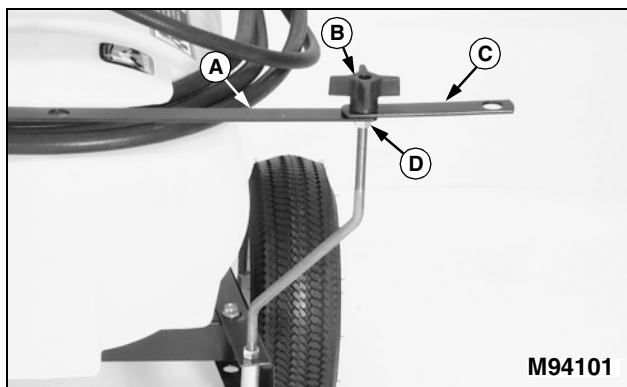


2. Install axle spacers, flat washers and wheels. Wheel hardware:

- (2) Axle Spacers (C)
- (4) Flat Washers (D)
- (2) E-Clip Snap Rings (E)

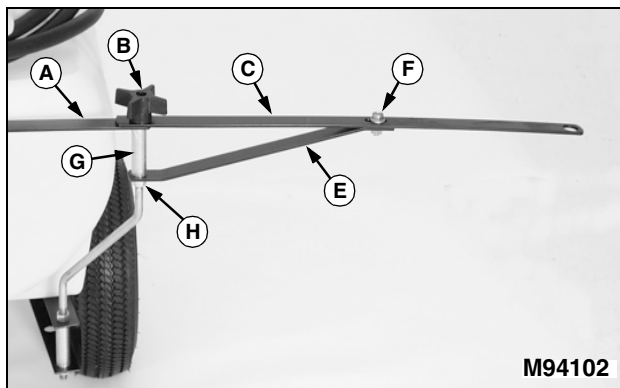
Assemble Sprayer Boom

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



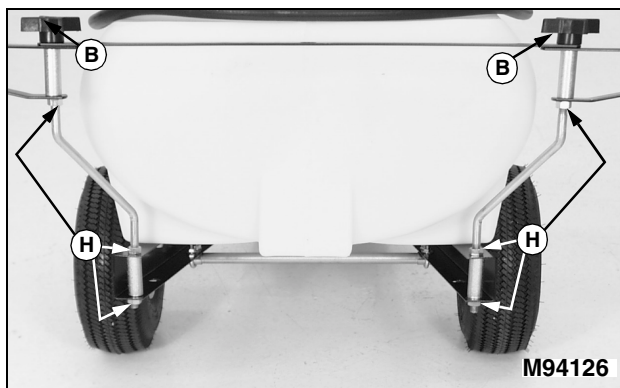
2. **15 Gallon Sprayer** - Install center boom (A) and boom extension (C). Retaining hardware:

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



3. **25 and 40 Gallon Sprayer** - Install center boom (A), boom extension (C) and boom support (E). Retaining hardware:

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



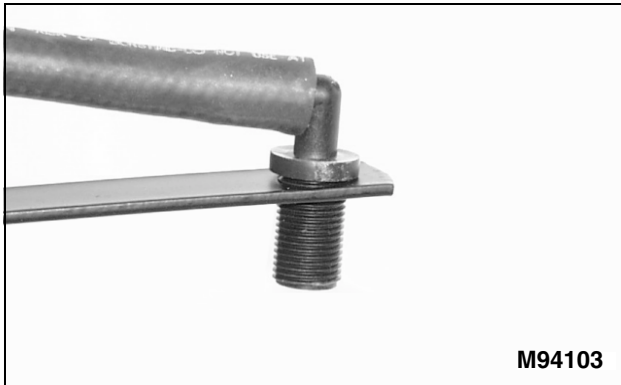
4. Level, straighten and center boom with back of sprayer.

5. Tighten hardware:

- (6) 3/8 in. Nuts (H)
- (2) Locking Knobs (B)

ASSEMBLY

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

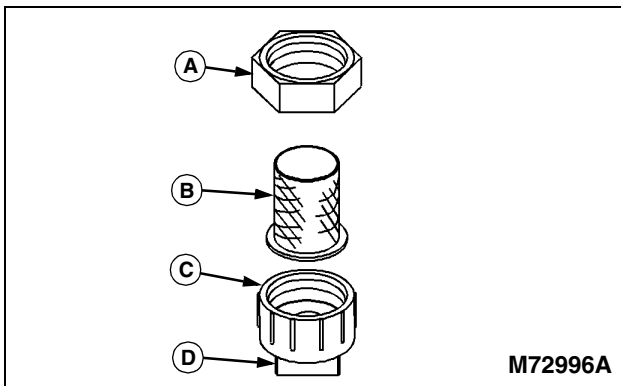


M94103

6. Install hoses into boom:

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

25 and 40 Gallon Sprayer - Install hoses into all three boom spray tip mounting holes.



M72996A

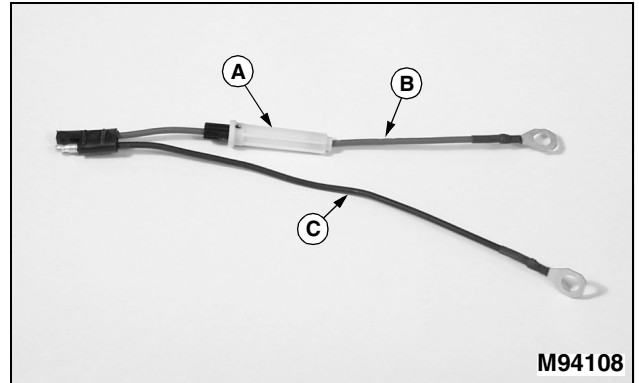
7. Install spray tips:

- Spray Tip Fitting Lock Nut (A)
- Spray Tip Screen (B)
- Spray Tip Fitting Cap Nut (C)
- Spray Tip (D)

Install Wiring Harness to Battery

IMPORTANT: Avoid damage! 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.



M94108

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.

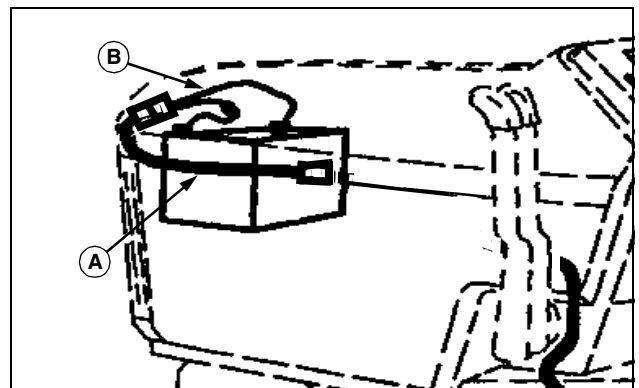
2. Open tractor hood. If battery is mounted low and behind the grille, carefully unsnap top of grille to provide access to battery terminals.

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.

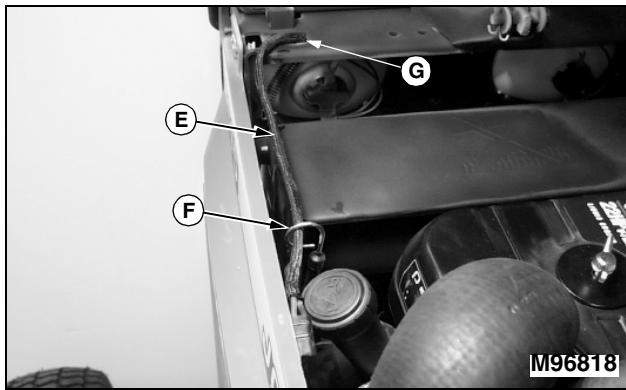


Connect wiring harness extension (A) to fused harness (B) at battery. Make sure the harness passes between the left side hood rods.

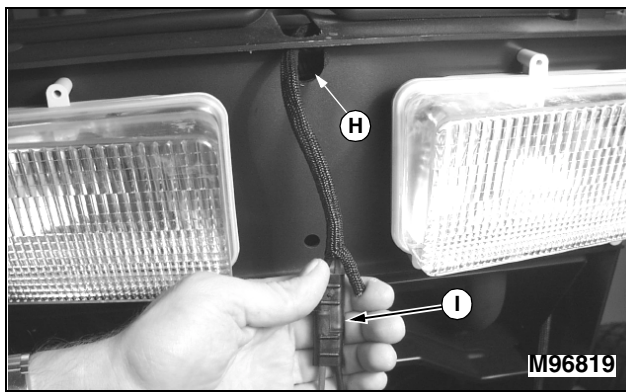
Install Wiring Harness Extension (For Tractors With Lower Front-Mounted Battery)

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

ASSEMBLY

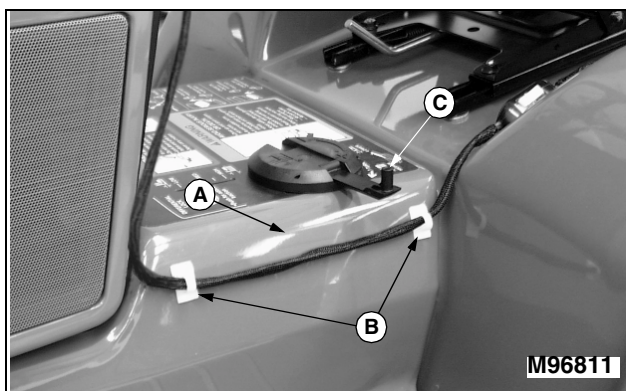


1. Route wiring harness extension (E) through dipstick (F) and hole (G).



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 gal./min.)
Suction Hose Strainer	Stainless Steel
Spray Tip Material	Plastic and Stainless Steel
Handgun:	
Material	Plastic
Adjustment	Fan To Stream
Sprayer:	
Nozzle Tip Height	43 cm (17 in.)
Spaying Width	152 cm (60 in.)
Weight:	
Empty	20 kg (44 lb.)
Full	74 kg (164 lb.)

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. (1.6 U.S. gal./min.)
Suction Hose Strainer	Stainless Steel
Spray Tip Material	Plastic and Stainless Steel
Handgun:	
Material	Plastic
Adjustment	Fan To Stream

SPECIFICATIONS

Sprayer:

Nozzle Tip Height 43 cm (17 in.)

Spaying Width 229 cm (90 in.)

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.)

Model 40 Gallon Wheeled Sprayer

Tank 151 L (40 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. (1.6 gal./min.)

Suction Hose Strainer Stainless Steel

Spray Tip Material Plastic and Stainless Steel

Handgun:

Material Plastic

Adjustment Fan To Stream

Sprayer:

Nozzle Tip Height 53 cm (21 in.)

Spaying Width 305 cm (120 in.)

Weight:

Empty 27 kg (60 lb.)

Full 177 kg (390 lb.)

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JOHN DEERE QUALITY STATEMENT

John Deere Quality



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.