

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Wheeled and Portable Sprayers
15, 25 and 40 Gallon

OMM156695 L6

OPERATOR'S MANUAL



JOHN DEERE

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Previous Editions

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North American Version

Litho in U.S.A.

INTRODUCTION

Introduction

Using Your Operator's Manual

Read this entire operator's manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator's manual, along with the machine operator's manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call the John Deere Customer Contact Center at 1-800-537-8233 for assistance.

Warranty information on this John Deere attachment can be found in the warranty that came with your John Deere tractor or vehicle.

Product Identification

Product Compatibility

The 15, 25, and 40 Gallon Sprayers are compatible with riding lawn and garden products.

Safety

Read the general safety operating precautions in your machine operator's manual for additional safety information.

Operate Safely

- Read the machine and attachment operator's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the machine and disengage the controls quickly.
- Do not let children or an untrained person operate machine.
- Make any necessary adjustments before you operate. Never attempt to make any adjustments while the engine is running, unless if recommended in adjustment procedure.
- Take all possible precautions when leaving the machine unattended. Shut off the engine before making any repairs, adjustments, or inspections. Lower the attachment, lock the parking brake, stop the engine, and remove the key.
- Look behind machine before you back up. Back up carefully.
- Do not let anyone, especially children, ride on machine or attachment. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.
- Use only attachments and accessories approved by the manufacturer of this product.
- If the machine vibrates abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

- Always refer to the Storage section of the operator's manual for important details if storing this product for a long period of time.
- Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained and in good working order. Keep all shields and guards in place.
- Always inspect the sprayer completely before and after each use. Before pressurizing the system, check to be sure all fittings and hoses are tightly installed. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Never use the sprayer during windy conditions.
- Always release pressure in the system before filling, cleaning or servicing the sprayer.
- Do not put nozzle tip or other sprayer parts to your lips to blow out dirt. Use compressed air.
- If the sprayer is mounted to the bed of a utility vehicle, never raise the bed with the sprayer installed. Empty the sprayer and remove it from the bed if you need to raise the bed for any reason.

Parking Safely

1. Stop vehicle on a level surface, not on a slope.
2. Lock park brake.
3. Stop engine.
4. Remove key.
5. Before you leave the operator's seat, wait for engine and all moving parts to stop.
6. Disconnect the negative battery cable or remove the spark plug wire (for gasoline engines) before servicing the machine.

Mix and Handle Chemicals Safely

- It is best to wear full cover clothing and always wear protective goggles and rubber gloves to protect yourself while handling chemicals.
- Follow instructions on chemical container labels.
- Open all chemical containers carefully, using proper tools.
- Open, pour, weigh and mix chemicals in a well-ventilated area.
- Reserve all equipment used for the application of chemicals exclusively for that purpose.
- Prohibit all smoking, drinking and eating food in chemical-handling area.
- It is a good practice to take a soapy shower immediately after the using the sprayer to apply chemicals.
- Wash all clothing worn when using chemicals separately in the laundry after spraying is completed.

Read Chemical Container Label

- Chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soils or other property. Select the right chemical for the job and handle and apply with care.
- Read the instructions, precautions, and warnings on the container label before opening. Use the product strictly according to label directions for specific applications, in the amounts specified, at the times specified and only when needed.
- Keep the container closed tightly except when preparing the mix.
- Do not remove labels from chemical containers. Store all chemicals in

SAFETY

their original containers.

- Do not mix chemicals unless stated on the container label.
- Store chemicals when not in use according to the container label.

Handle Chemical Products Safely

- Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include pesticides, herbicides and fungicides.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.
- The MSDS should be obtained from the chemical dealer at the time of the chemical purchase.
- Check the MSDS before beginning any job using a hazardous chemical. Know exactly what the risks are and how to do the job safely. Always wear recommended personal protection equipment.

Towing Loads Safely

- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance to stop.
- Total towed weight must not exceed limits specified in towing vehicle operator's manual.
- Excessive towed load can cause loss of traction and loss of control on slopes. Reduce towed weight when operating on slopes.
- Never allow children or others in or on towed equipment.
- Use only approved hitches. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the approved hitch point.
- Follow the manufacturer's recommendations for weight limits for towed equipment and towing on slopes. Use counterweights or wheel weights as described in the machine operator's manual.
- Do not turn sharply. Use additional caution when turning or operating under adverse surface conditions. Use care when reversing.
- Do not shift to neutral and coast downhill.

Keep Riders Off Towed Attachment

Keep riders off of a towed attachment.

Riders on a towed attachment are subject to injury, such as being struck by objects and being thrown off the attachment during sudden starts, stops and turns.

Riders obstruct the operator's view, resulting in the attachment being used in an unsafe manner.

Keep riders off of hitch bracket.

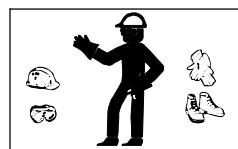
Avoid Injury From Drawbar

Before you disconnect an attachment from machine hitch plate:

- Unload attachment.
- Stop attachment on level ground.
- Stop machine engine.
- Lock machine park brake.
- Block attachment wheels.
- Make sure hands, feet or other body parts are not under drawbar.

Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service or adjust the machine or attachment while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachment completely to the ground or to an existing attachment mechanical stop before servicing the attachment. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers.
- Securely support any machine or attachment elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.
- Check all hardware at frequent intervals to be sure the equipment is in safe working condition.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.



Wear Appropriate Clothing

- Wear close fitting clothing and safety equipment appropriate for the job.
- Certain operating conditions may dictate that the operator and any passenger wear

appropriate safety equipment while operating the vehicle. Be prepared for any existing and potential conditions before operating machine.

- Local safety or insurance regulations may require additional safety equipment such as eye protection or a hard hat.
- Always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Wear proper clothing and safety equipment while handling chemicals or using the sprayer. Refer to the MSDS for the chemicals being used to be sure the proper personal protection equipment is being used.



Avoid High Pressure Fluids

- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.

- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.

ASSEMBLY

- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. Information may be obtained in the United States and Canada only by calling 1-800-822-8262.

Dispose of Chemicals Properly

- Proper disposal of excess spray material is very important. If you have excess tank solution, it is best to dilute it with water and apply it to the area you previously treated.
- Never dump solution into a drain or near a lake or stream.
- Chemicals containers should be triple-rinsed, with the rinse water added to the sprayer tank. Do not burn empty chemical containers. Dispose of containers at recycling centers.

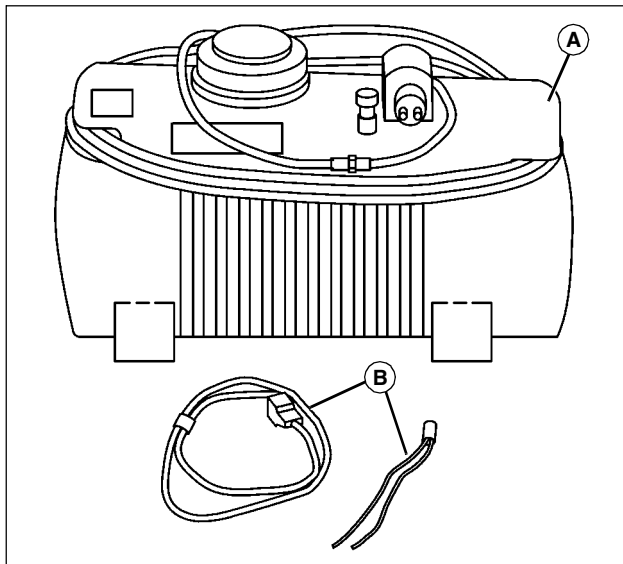
Handling Waste Product and Chemicals

Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people:

- Do not use beverage containers for waste fluids - someone may drink from them.
- See your local Recycling Center or authorized dealer to learn how to recycle or get rid of waste products.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. The seller of the chemical products used with your machine is responsible for providing the MSDS for that product.

Assembly

Identify Parts (25 Gallon Portable Sprayer)



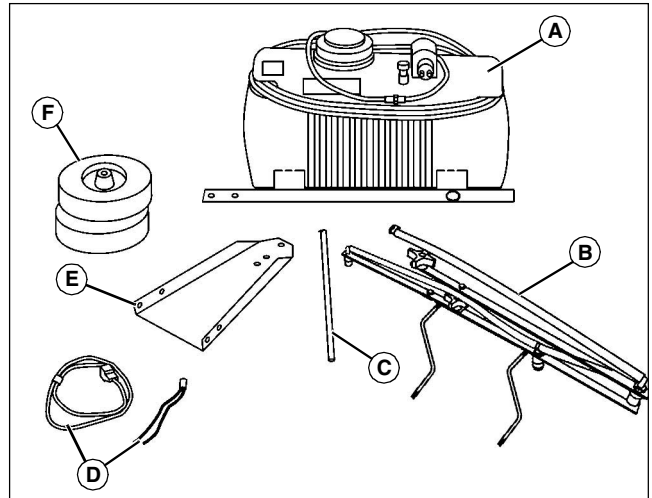
MX34800

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 and Assemble (15 and 25 Gallon - Wheeled Sprayers)



MX38806

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

B- Boom Assembly (25 gallon assembly shown)

C- Axle

D- Wiring Harness

E- Hitch Frame

F- (2) Wheels

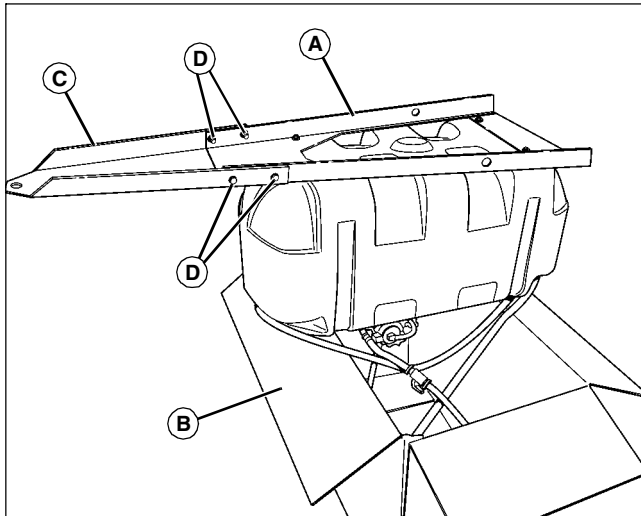
Bag of Parts

Part Description	15 and 25 Gallon
Hitch Clevis	1
Support, Sprayer	2
Locking Collar	2
Hitch Pin, 1/2 x 2-1/2 in.	1
Spring Locking Clip	1
Flat Washer	2
Axle Spacer	2
Bolt, Flange, 5/16 x 3/4 in.	6
Nut, Flange, 5/16 in.	6
Nut, 3/8 in.	4
Lockwasher, 3/8 in.	2

Attach Hitch Frame

1. Remove hardware bags and wiring harness from inside tank.

ASSEMBLY



MX38807

2. Place tank and frame assembly, with tank frame (A) on top, onto top of shipping box (B) for installing hitch frame.

NOTE: When installing hardware, always install with nuts to the inside.

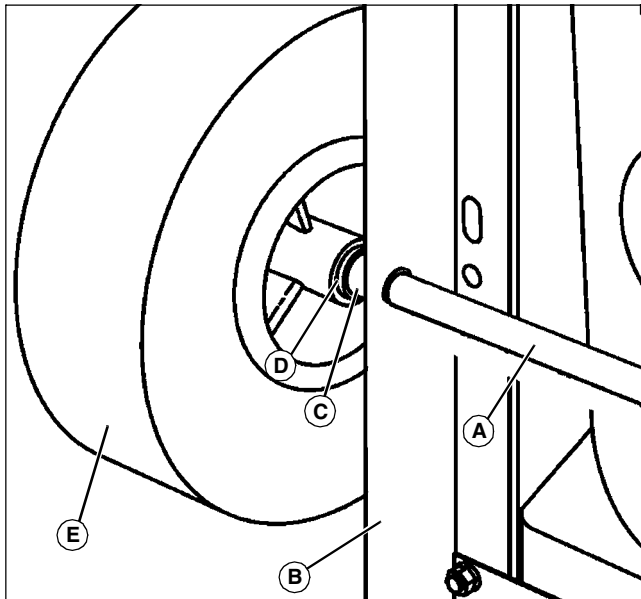
3. With tank frame (A) mounted to the inside of the hitch frame (C), align mounting holes on tank frame to mounting holes in hitch frame.

4. Install and tighten hardware (D):

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

Install Wheels

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



MX38808

1. Install and center axle (A) into rear holes of tank frame (B).
2. Install axle spacer (C) and flat washer (D).
3. Install wheel (E), and then secure outside with locking collar.
4. Repeat for opposite wheel. Wheel hardware:

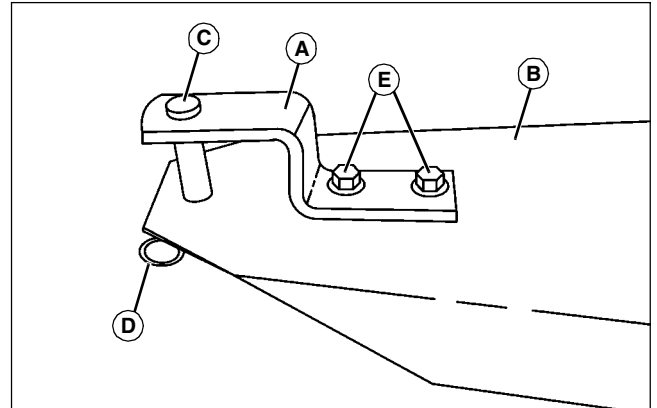
- (2) Axle Spacers (C)
- (2) Flat Washers (D)
- (2) Locking Collar

5. Tighten locking collars with a hex key wrench.

6. Lubricate wheel bearing grease fittings with recommended grease.

7. Set sprayer on wheels.

Install Hitch Assembly



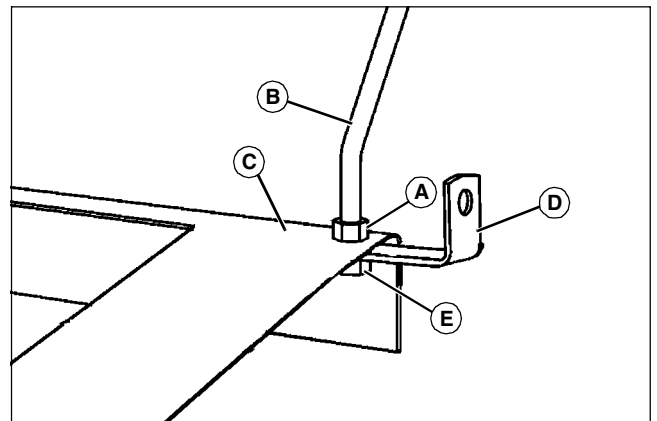
MX34616

1. Install hitch clevis (A) on top of hitch frame (B) with hitch pin (C) and spring locking clip (D).

2. Install and tighten hardware (E):

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

Install Boom Assembly



MX38810

1. Install 3/8 in. nut (A) on boom support rod (B). Repeat for opposite side boom support rod.

NOTE: Install support, (D) facing toward rear of assembly and as far rearward as possible, as shown.

Boom assembly should be installed with hose connection tee facing forward.

2. Install entire spray boom and support rods through rear holes in tank frame (C).

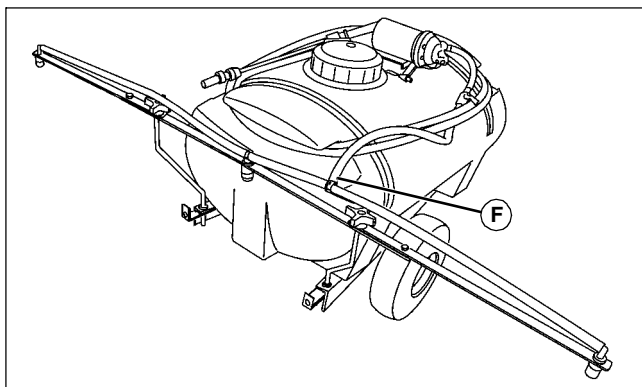
3. Install support (D), 3/8 in. lockwasher, and a second 3/8 in. nut (E). Repeat for opposite side. Boom support hardware:

- (4) 3/8 in. Nuts

ASSEMBLY

- (2) 3/8 in. Lockwashers

4. Do not tighten boom hardware until entire boom is in place.

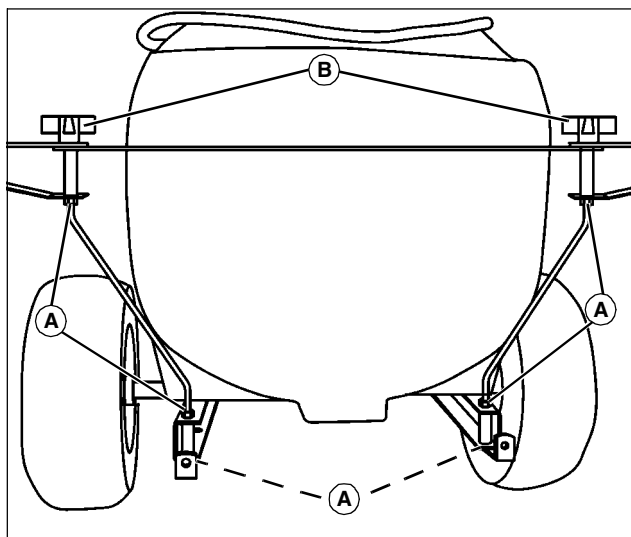


MX38811

Picture Note: 25 gallon shown.

5. Connect tank hose (F) onto tee on boom hose.

Level Sprayer



MX34788

Picture Note: 40 gallon shown.

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

2. Tighten hardware:

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

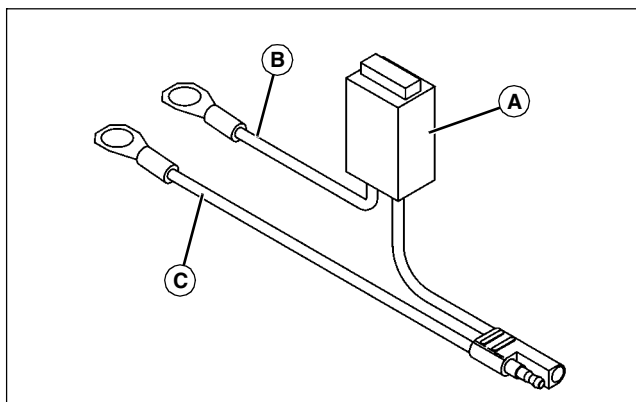
Install Wiring Harness to Battery

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 to wiring, make sure hood does not close on wires or connectors.

NOTE: Depending on the location of your battery, a wiring harness extension may be required. Part numbers are AM105666 (John Deere) or B1ST43485 (Sunbelt). See your John Deere dealer to order parts.

Tractors with a 12 volt receptacle requires a 12 volt plug adapter, part number B1ST43503 (Sunbelt). See your John Deere dealer to order parts.

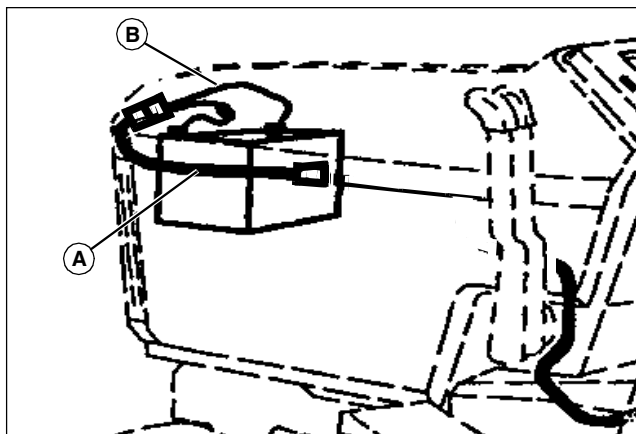


MX34799

1. Fuse holder (A) should contain a 15 A / 32 V fuse. Make sure fuse filament is not broken.
2. Open 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 Machines With Upper Front-Mounted Battery)

NOTE: Wiring Harness Extension is required. See your John Deere dealer to order parts.



M94107, MIF

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

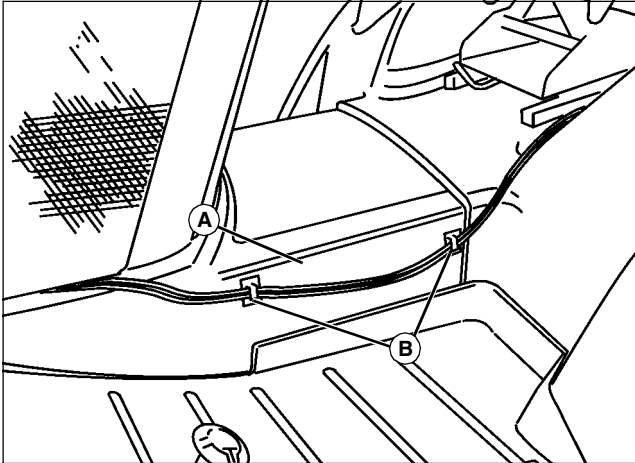
ASSEMBLY

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

NOTE: Wiring Harness Extension is required. See your John Deere dealer to order parts.

1. Route wiring harness extension through front frame hole.
2. Connect extension to battery lead plug. Then snap front grille in place.

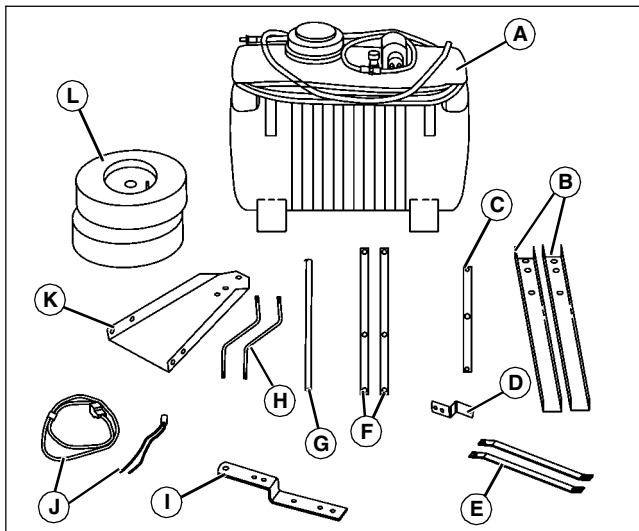
Install Wire Clips



MX34789

1. Clean foot rest side panel (A) at left side of machine with mild detergent or isopropyl alcohol. Dry thoroughly.
2. Attach wire clips (B) to panel. Position the clips as shown so that sprayer main wiring harness will not interfere with deck height adjustment crank, if equipped.

Identify Parts and Assemble (40 Gallon - Wheeled Sprayer)



MX34803

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 Support Rods

I - Drawbar Extension

J- Wiring Harness

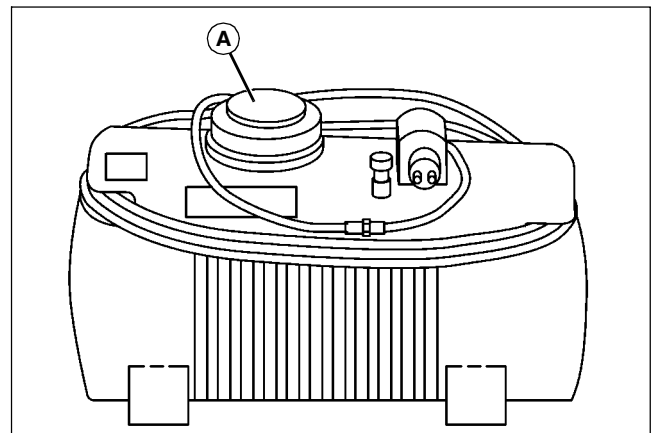
K- Hitch Frame

L- (2) Wheels

Bag of Parts

Part Description	40 Gallon
Bolt, Flange, 5/16 x 5/8 in.	12
Bolt, Flange, 5/16 x 1 in.	5
Nut, Flange, 5/16 in.	17
Lock Washer 5/16 in.	4
Axle U-Bolt, 5/16 in.	2
Nut, 3/8 in.	6
Locking Knob	2
Boom Spacer	4
Wire Clip	2
Hitch pin and spring locking pin	1
Spray Tip	3
Spray Tip Screen	3
Spray Tip Fitting Lock Nut	3
Spray Tip Fitting Cap Nut	3
Supports	4
Locking Collar	6

Clean Sprayer Tank



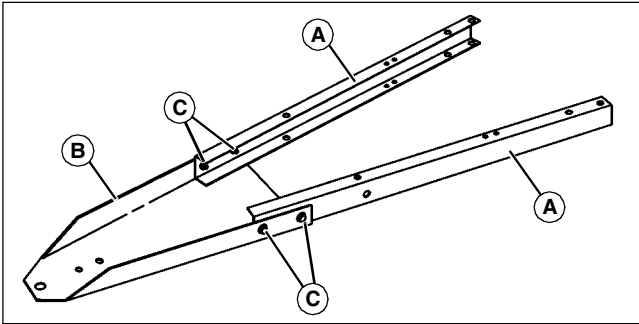
MX34800

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

ASSEMBLY

Attach Frame Rails and Hitch Frame

NOTE: When installing hardware, always install with nuts to the inside. Do not tighten any hardware until instructed.



MX34804

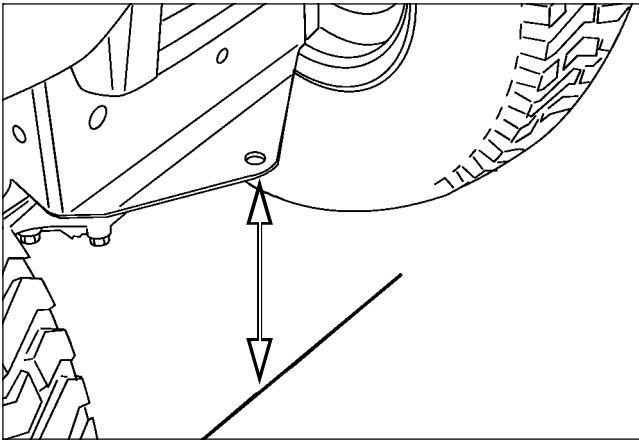
1. With frame rail (A) channels mounted to the inside of the hitch frame (B), align mounting holes in frame rails to mounting holes in hitch frame.

2. Install hardware (C):

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

Install Hitch Assembly

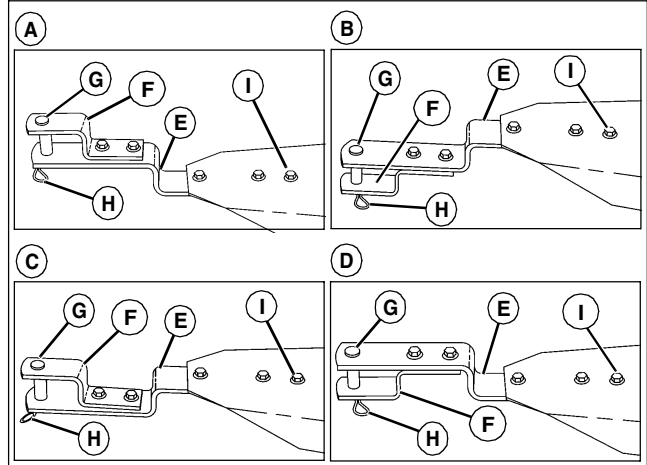
NOTE: The 40 gallon sprayer hitch can be set up into four different positions. In order for the sprayer to completely empty the tank, the sprayer frame should be as level as possible. Adjust the sprayer drawbar to match the height of the machine hitch.



MX34861

1. Measure distance from machine hitch to the ground.

NOTE: Assemble sprayer drawbar to match machine hitch height.



MX34794, MX34796, MX34779, MX34795

A- Configuration for 30 cm (12 in.) height.

B- Configuration for 18 cm (7 in.) height.

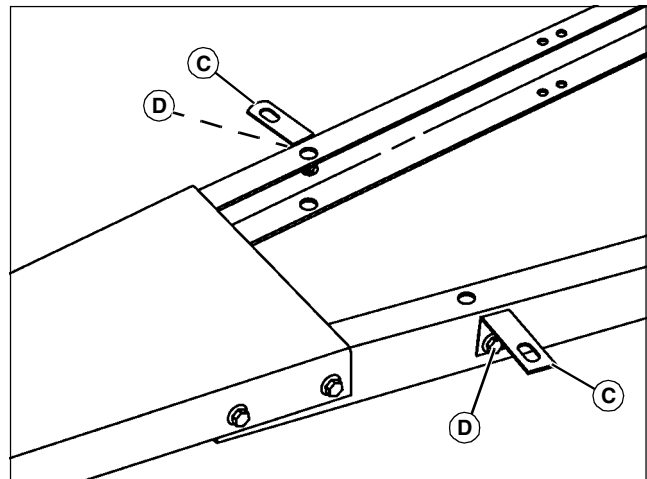
C- Configuration for 23 cm (9 in.) height.

D- Configuration for 27 cm (10.5 in.) height.

2. Install drawbar extension (E) (to bottom side of hitch frame), hitch clevis (F), hitch pin (G), and spring locking pin (H). Install and tighten hardware (I):

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

Install Supports



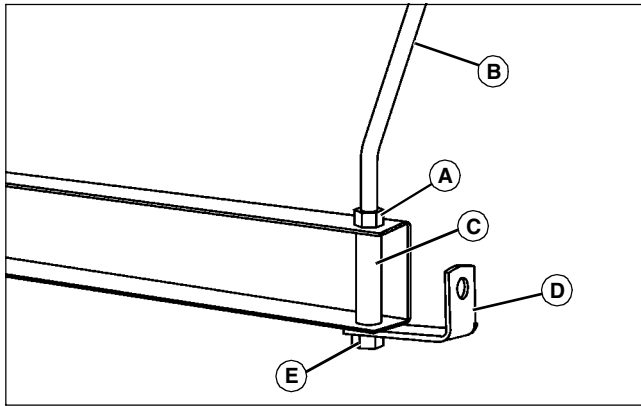
MX34860

• Locate and install front supports (C) on frame rails and install hardware (D): Do not tighten hardware at this time.

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

ASSEMBLY

Assemble Boom Support Rods



MX34780

1. Install 3/8 in. nut (A) on boom support rod (B).

NOTE: Install support (D), facing toward rear of assembly, as shown.

2. Install boom support rod (B), boom spacer (C), support (D), and 3/8 in. nut (E). Boom support hardware:

- (4) 3/8 in. Nuts
- (2) Boom Spacers

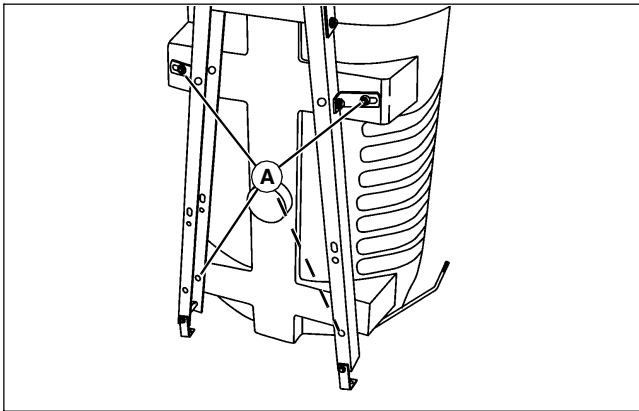
3. Install boom support rods on both left and right frame rails. Do not tighten boom hardware until entire boom is assembled.

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.

1. Locate and install sprayer tank, with pump towards front of sprayer.



MX34782

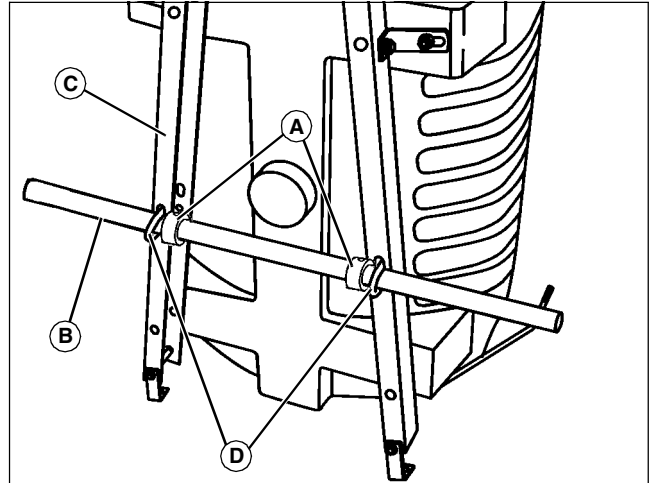
2. Install and tighten hardware (A):

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

3. Tighten all frame hardware.

Install Axle

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



MX38809

1. Install two locking collars (A) onto axle (B) and center axle with tank frame (C).

2. Install hardware (D):

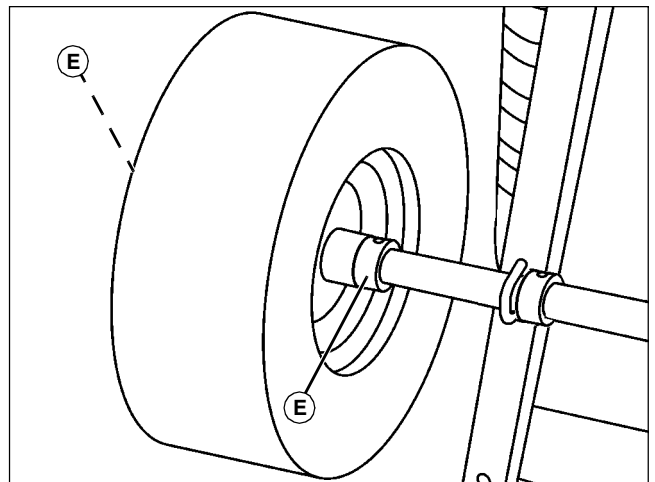
- (2) Axle U-Bolts
- (4) 3/8 in. Flat Washers
- (4) 5/6 in. Flange Nuts

3. With axle centered in the tank frame, tighten locking collars with a hex key wrench.

4. Tighten 5/16 in. flange nuts included with hardware (D).

Install Wheels

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



MX38814

1. Install locking collar (E) and wheel. Secure outside of wheel with second locking collar. Tighten locking collar with a hex key wrench.

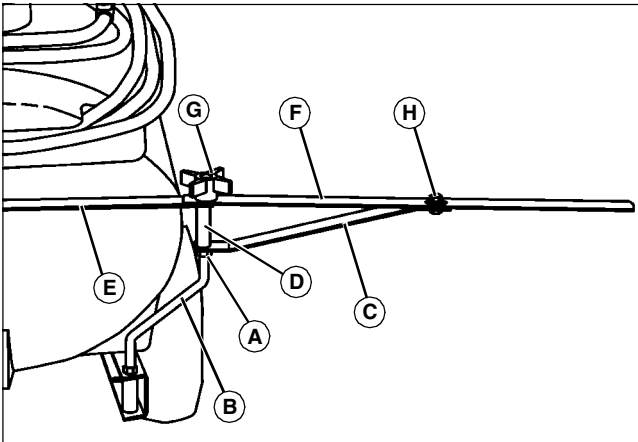
2. Repeat for opposite wheel. Wheel hardware:

- (4) Locking Collars (E)

3. Lubricate wheel bearing grease fittings with recommended grease.

ASSEMBLY

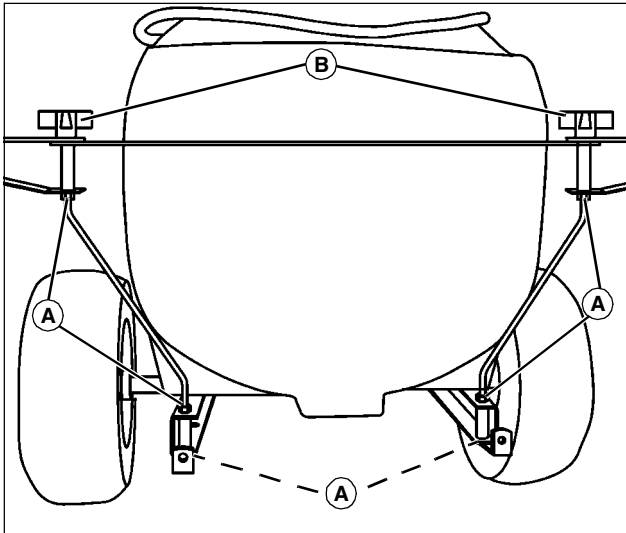
Install Boom



MX34865

1. Install 3/8 in. nut (A) onto boom support rod (B).
2. Install boom support (C), spacer (D), center boom (E), boom extension (F), and locking knob (G).
3. Secure boom support and boom extension with 5/16 x 5/8 in. flange bolt and nut (H).
4. Repeat for opposite side. Retaining hardware:
 - (2) Locking Knobs (G)
 - (2) Bolts, Flange, 5/16 x 5/8 in. (H)
 - (2) Nuts, Flange, 5/16 in. (H)
 - (2) Nuts, 3/8 in. (A)
 - (2) Boom Spacers (D)

Level Sprayer



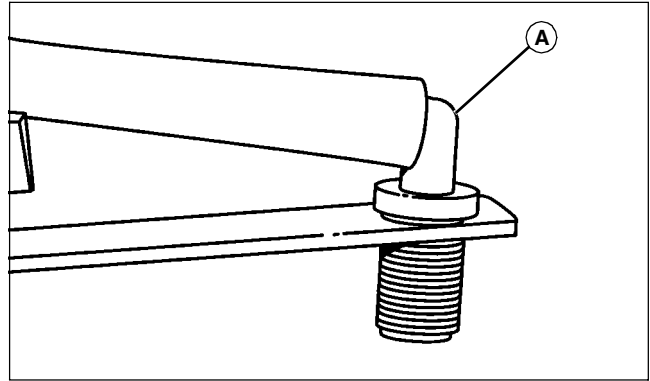
MX34788

Picture Note: 40 gallon shown.

1. Level, straighten and center boom with back of sprayer.
2. Tighten hardware:
 - (6) Nuts, 3/8 in. (A)
 - (2) Locking Knobs (B)

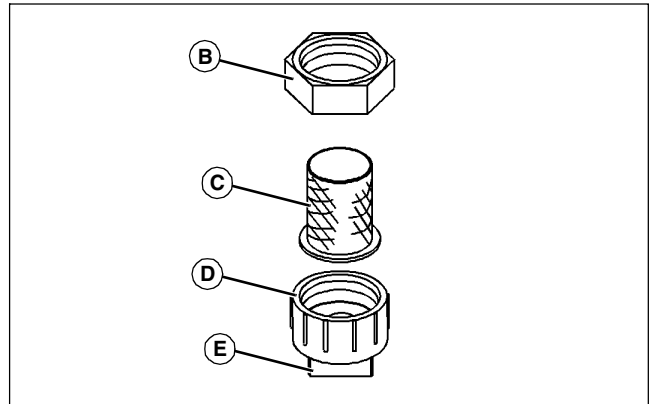
Install Hoses

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



MX34798

1. Install hose fitting (A) into all three boom holes.



M72996a

2. Install spray tips:
 - Spray Tip Fitting Lock Nut (B)
 - Spray Tip Screen (C)
 - Spray Tip Fitting Cap Nut (D)
 - Spray Tip (E)

INSTALLING

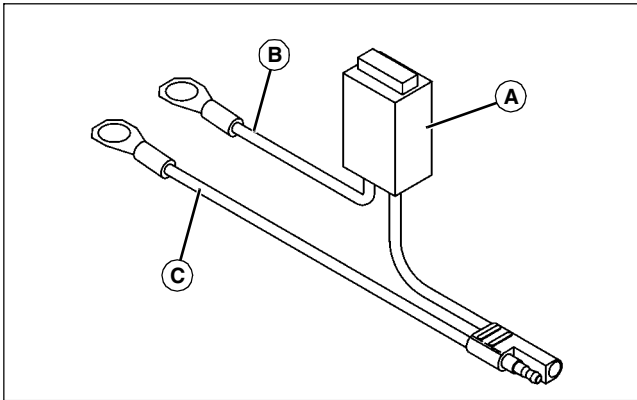
Install Wiring Harness to Battery

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 to wiring, make sure hood does not close on wires or connectors.

NOTE: Depending on the location of your battery, a wiring harness extension may be required. Part numbers are AM105666 (John Deere) or B1ST43485 (Sunbelt). See your John Deere dealer to order parts.

Tractors with a 12 volt receptacle requires a 12 volt plug adapter, part number B1ST43503 (Sunbelt). See your John Deere dealer to order parts.

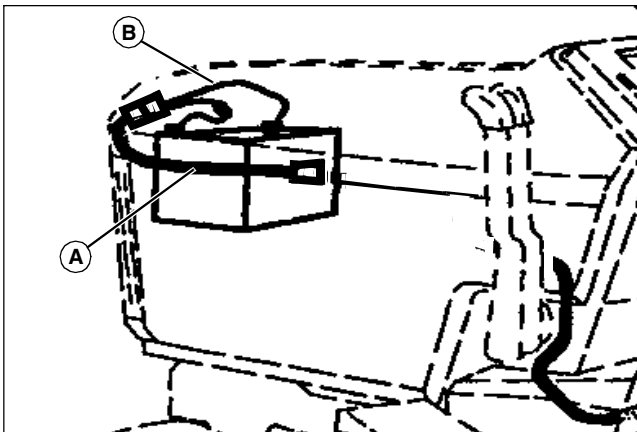


MX34799

1. Fuse holder (A) should contain a 15 A / 32 V fuse. Make sure fuse filament is not broken.
2. Open 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 Machines With Upper Front-Mounted Battery)

NOTE: Wiring Harness Extension is required. See your John Deere dealer to order parts.



M94107, MIF

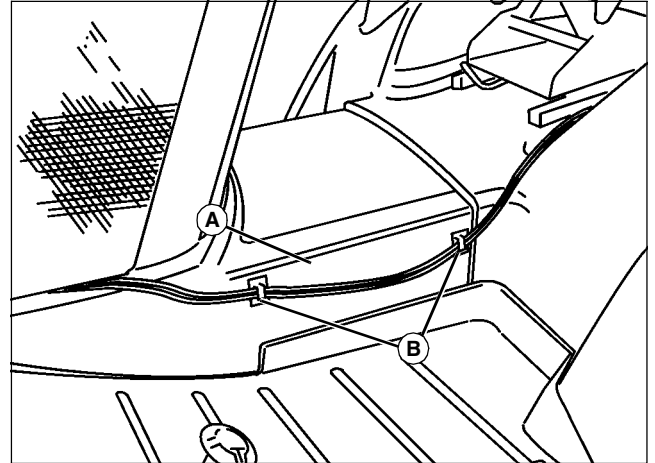
Connect wiring harness extension (A) to fused harness (B) at battery. Make sure the harness passes between the left side hood rods.

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

NOTE: Wiring Harness Extension is required. See your John Deere dealer to order parts.

1. Route wiring harness extension through front frame hole.
2. Connect extension to battery lead plug. Then snap front grille in place.

Install Wire Clips



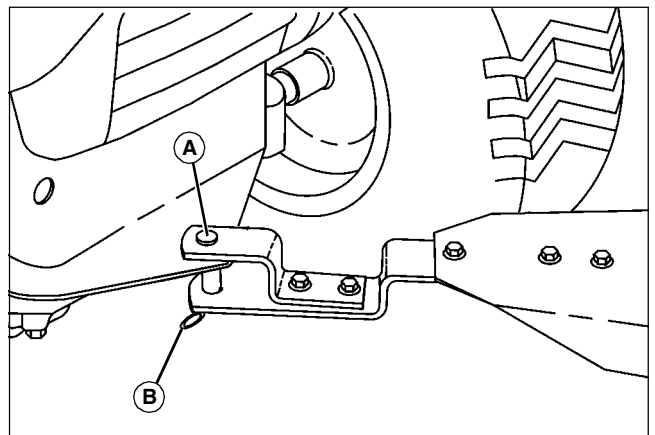
MX34789

1. Clean foot rest side panel (A) at left side of machine with mild detergent or isopropyl alcohol. Dry thoroughly.
2. Attach wire clips (B) to panel. Position the clips as shown so that sprayer main wiring harness will not interfere with deck height adjustment crank, if equipped.

Installing

Attaching Wheeled Sprayer to Machine

NOTE: 40 Gallon Wheeled Sprayer - 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 machine hitch.

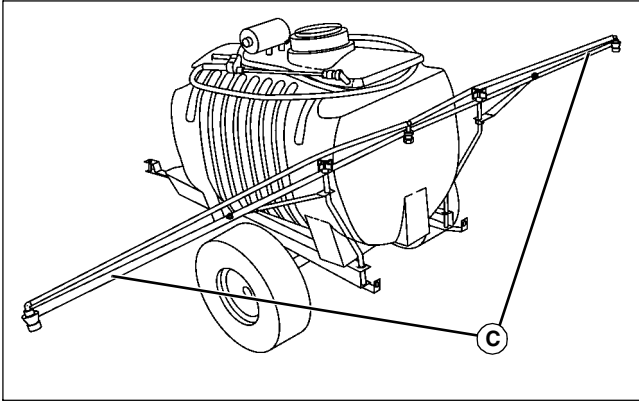


MX34792

Picture Note: 40 Gallon Wheeled Sprayer Shown

1. Put hitch pin (A) into hole in clevis and through hitch.
2. Fasten with spring locking pin (B).

INSTALLING



MX34793

Picture Note: 40 Gallon Wheeled Sprayer Shown

3. For 25 and 40 Gallon Sprayers, swing out boom extensions (C) and lock in place.
4. Connect sprayer pump to machine battery.

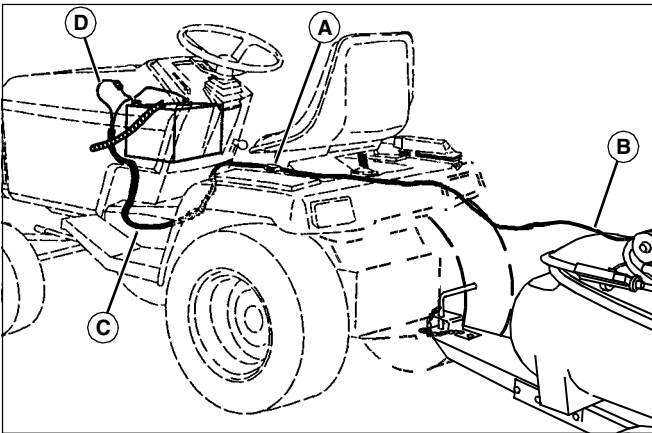
Attaching Portable Sprayer

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.

Install Wiring Harness (For Machines With Mid-Mounted Battery)

1. Open 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.



M94107, MIF

Picture Note: Wheeled Sprayer Shown

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.

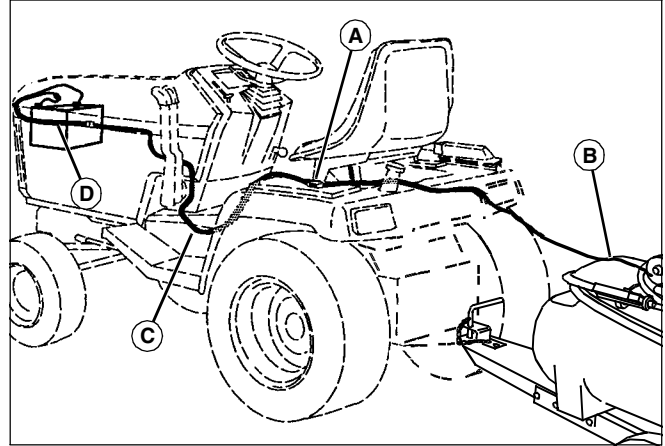
IMPORTANT: Avoid damage! Avoid damage to wiring. Make sure hood does not close on wiring harnesses. Keep wiring harnesses away from all moving parts and hot surfaces.

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

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

1. Open 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.



M94107a, MIF

Picture Note: Wheeled Sprayer Shown

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. Keep wiring harnesses away from all moving parts and hot surfaces.

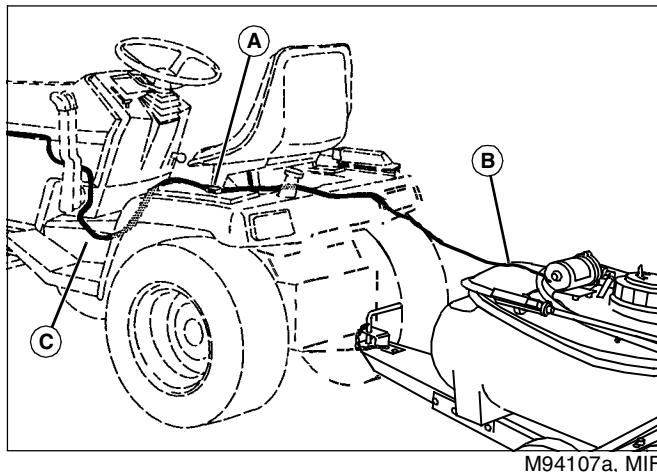
4. Make sure harness extension (D) passes between the left side hood rods. Connect the main harness to the wiring harness extension.
5. Close hood.

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

1. Open hood.

PREPARING VEHICLE

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.



Picture Note: Wheeled Sprayer Shown

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).

IMPORTANT: Avoid damage! Avoid damage to wiring. Make sure hood does not close on wiring harnesses. Keep wiring harnesses away from all moving parts and hot surfaces.

4. For most machines, route main harness along the top of side panel, and connect main harness plug to harness extension.
5. Close hood.

Preparing Vehicle

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

NOTE: 40 gallon sprayer is not recommended for use with machines 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 machine while using sprayers.

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

Machine 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 machine requires the following:

- 12-Volt Battery and Alternator
- Wiring Harness Extension: This part is required for all machines with the battery mounted near the front grille. Order this wiring harness from your John Deere dealer.

- Utility Vehicles require an additional 12 V adapter. Order this adapter 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.

Removing and Storing

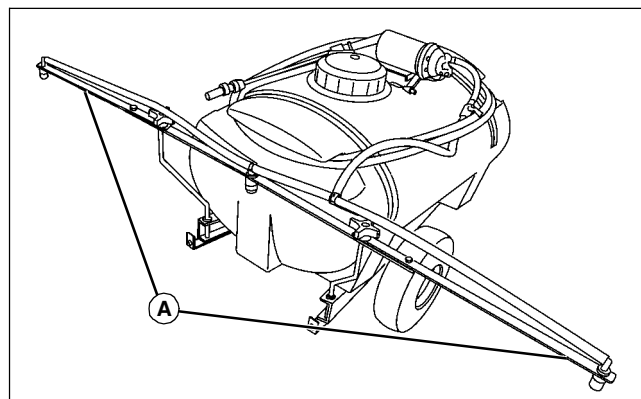
Removing Sprayer

1. Park machine safely. (See Parking Safely in the Safety section.)
2. Empty the sprayer tank.
3. Disconnect the main wiring harness only. Leave all other harnesses installed on machine.
4. Roll up the main harness and store with sprayer.
5. Remove Sprayer:

Portable Sprayer:

- Remove sprayer from the carrying vehicle.

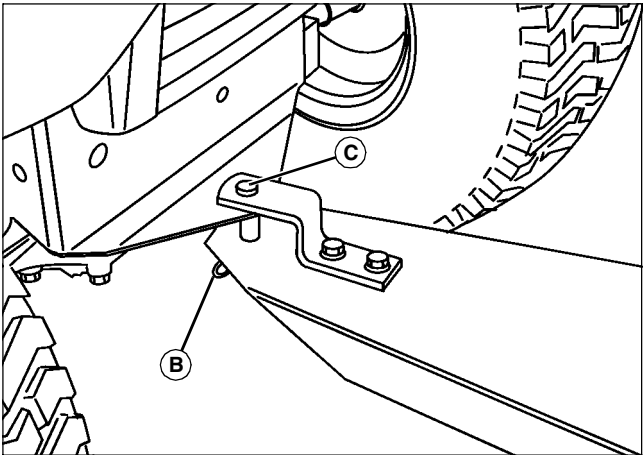
Wheeled Sprayer:



Picture Note: 25 Gallon Sprayer Shown

- a. Fold in boom extensions (A).

OPERATING

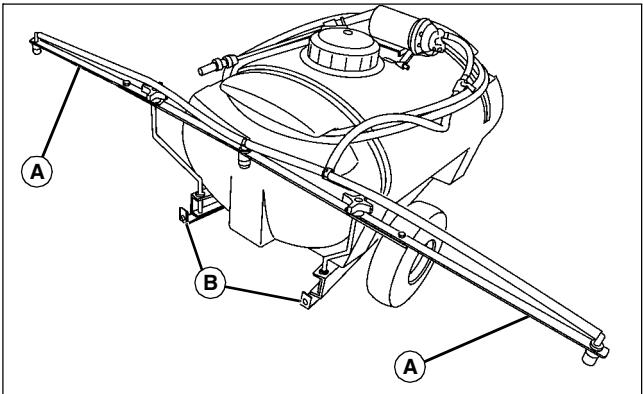


MX34790

- b. Pull spring locking pin (B) out of hitch pin (C). Remove hitch pin (C).
- c. Pull sprayer back from machine.
- d. Put hitch pin in sprayer hitch for storage.

Store Sprayer Safely

1. Clean and drain sprayer tank.



MX34791

Picture Note: 25 Gallon Sprayer Shown

2. If unit is a wheeled sprayer, fold in boom extensions (A).
3. Remove sprayer from transport vehicle.
4. Check sprayer for worn or damaged parts. Replace parts as needed.
5. Tighten loose hardware.
6. Sprayer may be stored on end, with sprayer resting on supports (B).

Operating

Filling Sprayer Tank

NOTE: There is no drain plug provided for draining sprayer tank. When filling tank, consider the area to be sprayed and amount of solution required to complete the task.



CAUTION: Avoid injury! Chemicals can be dangerous. Avoid injury to operator or bystanders:

- Read chemical container label for mixing and handling instructions. A Material Safety Data Sheet (MSDS) should be supplied by the chemical dealer and provides proper safety information.
- Wear proper clothing and safety equipment while handling or applying spray chemicals.
- Wear a full covering of clothing, protective goggles and rubber gloves.
- Prohibit all smoking, drinking, and eating around chemicals.
- When filling tank, never allow end of water hose to contact chemical mixture.

1. Clean area around tank filler cap to prevent tank contamination.
2. Remove tank filler cap and fill tank.

Draining and Cleaning Sprayer Tank

IMPORTANT: Avoid damage!

- Proper disposal of excess spray is very important. Dilute it with water and apply it to area previously treated.
- Never dump excess into a storm drain or near a lake or stream.

1. Remove tank filler cap, and empty sprayer tank:
 - Empty remaining solution into an appropriated container for proper disposal.
 - Dilute remaining solution with water and apply it to the area previously treated.
2. Spray all inside surfaces of tank with low pressure garden hose to remove any remaining solution. Rinse sprayer tank, pump, sprayer wand and all hoses thoroughly with fresh clean water. Rinse several times to make sure sprayer tank is clean and free of chemicals.
3. Once the tank is empty, wipe out inside of sprayer tank with a clean cloth or paper towel.
4. Install filler cap.

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

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.
 - 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 Machine 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 machine at wide open throttle. Operate machine at a low speed and drive the machine 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 20 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 3065 m² (33,000 sq ft) of spray coverage per tank. Plan on

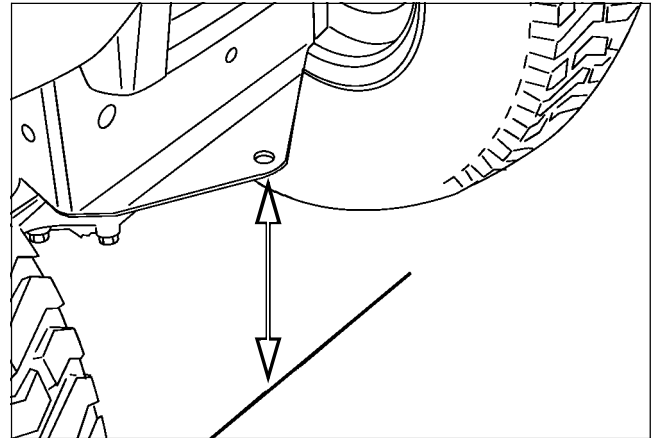
about 10 percent overlap, so put enough chemical in the tank for 2787 m² (30,000 sq ft) of spray coverage.

40 Gallon Sprayer Application:

The 40 Gallon Sprayer operates at a fixed pressure of 620 kPa (90 psi). This yields 30 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 6,131 m² (66,000 sq ft) of spray coverage per tank. Plan on about 10 percent overlap, so put enough chemical in the tank for 5,518 m² (59,400 sq ft) of spray coverage.

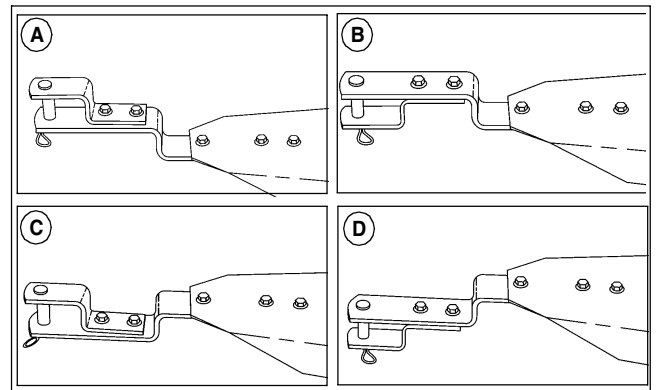
Adjusting Drawbar Height (40 Gallon Sprayer)

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 machine hitch.



MX34861

1. Measure distance from machine hitch to the ground.



MX34794, MX34795, MX34779, MX34796

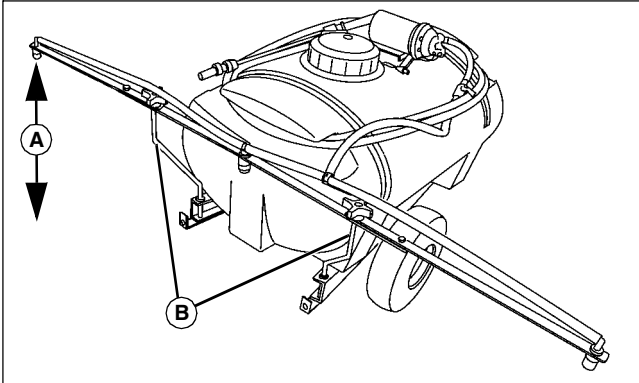
- A- Configuration for 30 cm (12 in.) height.
- B- Configuration for 27 cm (10.5 in.) height.
- C- Configuration for 23 cm (9 in.) height.
- D- Configuration for 18 cm (7 in.) height.

2. Assemble sprayer drawbar to match machine hitch height:

Adjusting Tip Height and Width

1. Attach sprayer to machine.

OPERATING



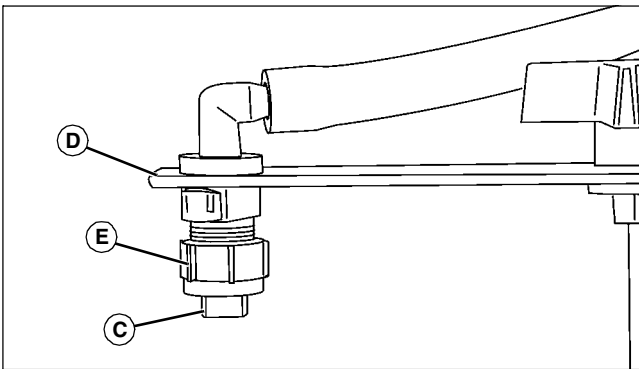
MX34791

Picture Note: 25 Gallon Sprayer Shown

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).



MX34862

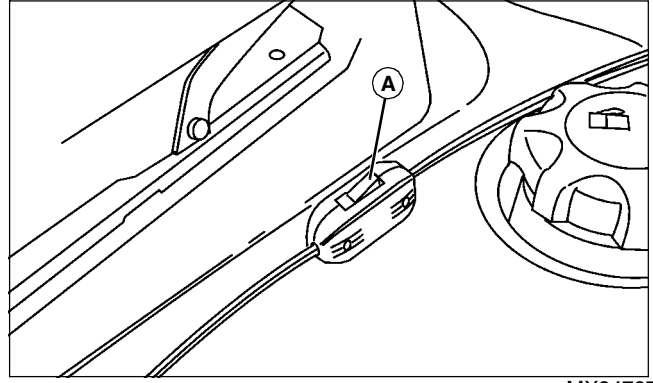
3. Check spray tips (C). Tips should be aligned with boom (D) as shown. If necessary, loosen spray tip cap nut (E). Align spray tip (C) and tighten cap nut.

4. Test spray pattern with water on driveway or sidewalk. Each spray tip pattern should spread out to the right and left 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

IMPORTANT: Avoid damage! Operate sprayer with transport vehicle running to avoid discharging the battery.

NOTE: The sprayer pump to battery hookup is a direct electrical connection. Shutting off the transport vehicle does not prevent operation of the sprayer pump. To avoid accidental spraying, disconnect the pump connection before leaving the sprayer.



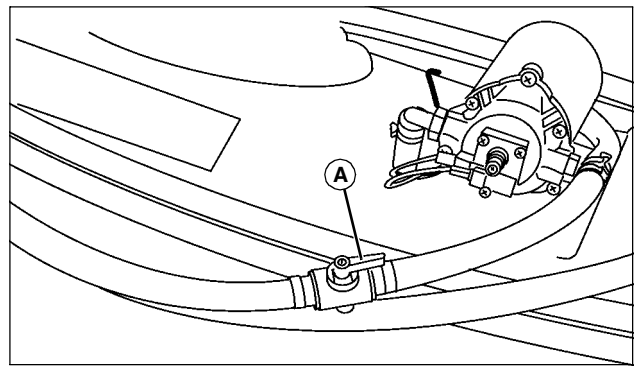
MX34797

Push switch (A) to on or off position to start or stop sprayer.

Selecting Spray Wand 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 spray wand.



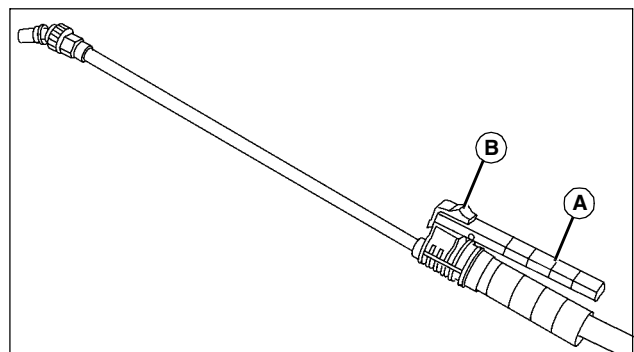
MX34863

• To use spray wand: Turn lever (A) so that it is perpendicular with hose. You can now use the spray wand for spraying.

• To use sprayer boom: Turn lever (A) so that it is perpendicular with hose. Turn pump on and operate spray wand to remove all air from hose. After spray wand 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.



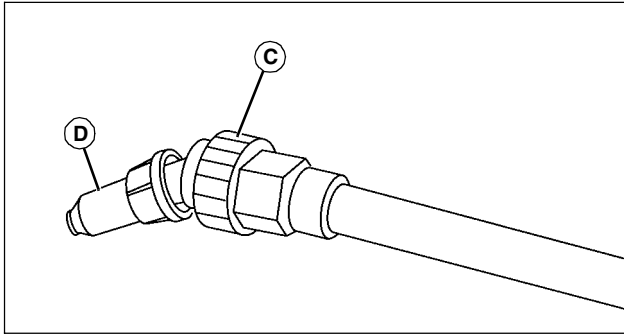
MX34866

2. Squeeze handle (A) to spray.

SERVICE

3. Push lock (B) forward to lock handle in the on position.

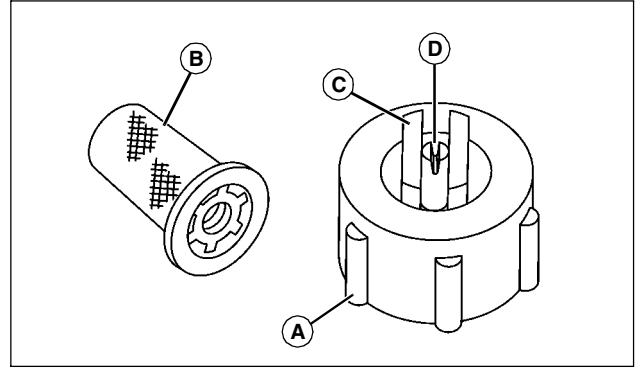
NOTE: Removal of nozzle (D) allows for quick cleaning or rinsing of sprayer tank.



MX34867

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.



MX34868

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.

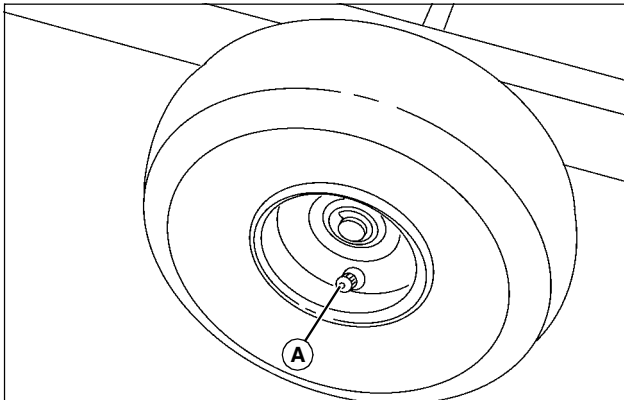
4. Put spray tip in spray nozzle.

5. Put flat side of filter in spray nozzle.

6. Install assembly on sprayer and tighten nozzle.

Service

Checking Tire Pressure



MX34864

Check tire pressure at point (A).

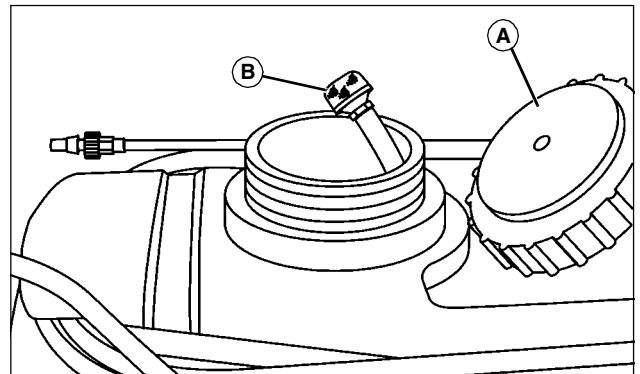
- Tire pressure should be 207 kPa (30 psi).
- Tire Size:
 - 15 and 25 Gallon Sprayer, 4.10 x 3.50 - 4
 - 40 Gallon Sprayer, 15 x 6.00 - 6

Cleaning Spray Nozzle



CAUTION: Avoid injury! Do not put nozzle tip or other sprayer parts to your lips to blow out dirt. Use compressed air or clean water.

Cleaning Pump Suction Screen



MX34869

1. Remove tank cover (A).

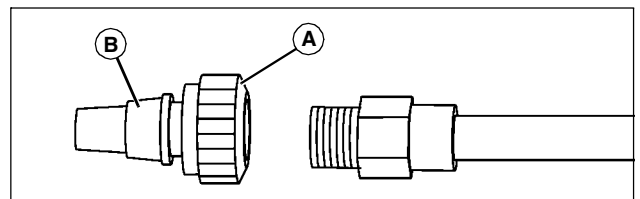
2. Locate suction screen (B) inside sprayer tank.

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 Spray Wand Nozzle and Filter



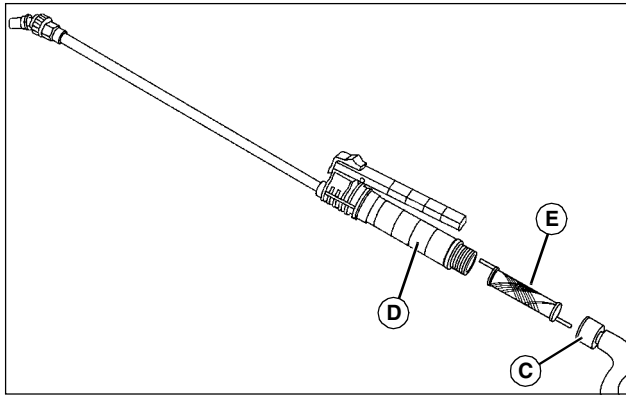
MX34870

1. Remove locknut (A) and nozzle (B) from spray wand.

2. Wash nozzle with liquid detergent and warm water.

TROUBLESHOOTING

3. Install and tighten nozzle.



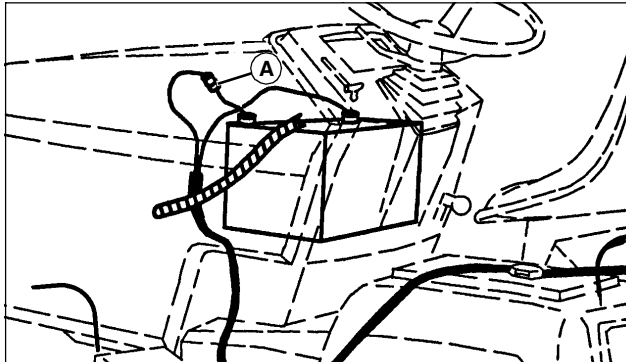
MX38813

4. Unscrew the hose end (C) from the spray wand valve handle (D).
5. Pull out the filter (E) and wash it with liquid detergent and warm water.
6. Install filter and install hose end back onto spray wand valve handle.

Changing Fuse

IMPORTANT: Avoid damage! The electrical system may be damaged if incorrect replacement fuses are used. Replace the bad fuse with a fuse of the same amp rating.

1. Open hood.



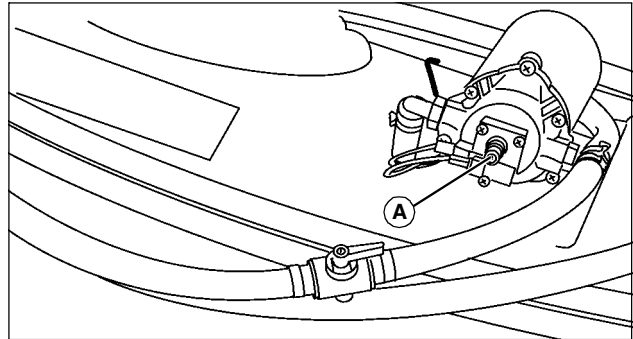
M61159

2. Remove fuse (A).
3. Install new 15 amp fuse.
4. Close hood.

Adjusting Pump

1. Park machine where spray will do no damage.
2. Stop engine.
3. Start sprayer.

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



MX34863

4. Using a hex wrench, turn set-screw (A) clockwise until pump runs smoothly.
5. Stop sprayer.

Troubleshooting

Using Troubleshooting Chart

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

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

Using Troubleshooting Chart

IF	CHECK
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 nozzles. Adjust nozzle height. Align spray tips with boom.
Pump Vibrates or Spray Pulses.	Adjust pump.
Pump Does Not Work.	Check wiring connections. Check machine battery. Clean debris from pump. Check pump switch. Check pump motor. Check fuse at battery. Adjust pump.

SPECIFICATIONS

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
Handgun:	
Material	Plastic
Adjustment	Fan To Stream
Sprayer:	
Nozzle Tip Height	43 cm (17 in.)
Spraying 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
Handgun:	
Material	Plastic
Adjustment	Fan To Stream
Sprayer:	
Nozzle Tip Height	43 cm (17 in.)
Spraying 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
Handgun:	
Material	Plastic
Adjustment	Fan To Stream
Sprayer:	
Nozzle Tip Height	53 cm (21 in.)
Spraying Width	305 cm (120 in.)
Weight:	
Empty	27 kg (60 lb)
Full	177 kg (390 lb)

Getting Quality Service

John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with your John Deere dealer's parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to your attachment and machine operator manuals.
2. Contact your John Deere dealer with unanswered questions.
3. In North America or Canada, call the John Deere Customer Contact Center.

- Call 1-800-537-8233 and provide product serial number and model number.

NOTES
