

15 and 25 Gallon Sprayers Wheeled and Portable (Serial No. 015001-) Tractor Trunk Mounted (Serial No. 010001-)



JOHN DEERE

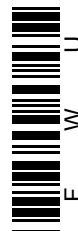
OPERATORS MANUAL

15 and 25 Gallon Sprayers Wheeled and Portable
(Serial No. 015001-) Tractor Trunk Mounted (Serial
No. 010001-)

OMM132826 H7 English

John Deere
Lawn & Grounds Care Division
OMM132826 H7
North American Version

LITHO IN U.S.A.
ENGLISH



INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual and your vehicle manual thoroughly. Failure to do so could result in personal injury or equipment damage.



This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

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

Product warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The product warranty is explained on the warranty certificate you received from your dealer.

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

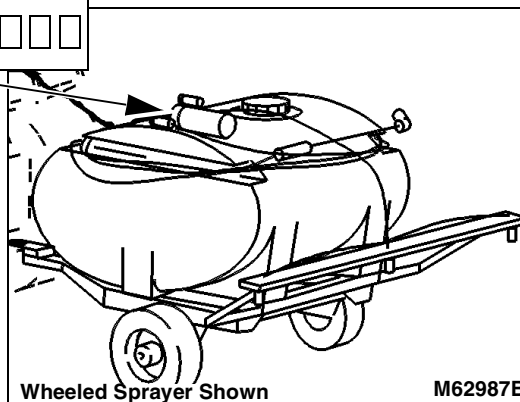
Date of Purchase:

Dealer Name:

Phone:

Serial Number:

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Wheeled Sprayer Shown

M62987B

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NOTES

NOTES

SAFETY SIGNS

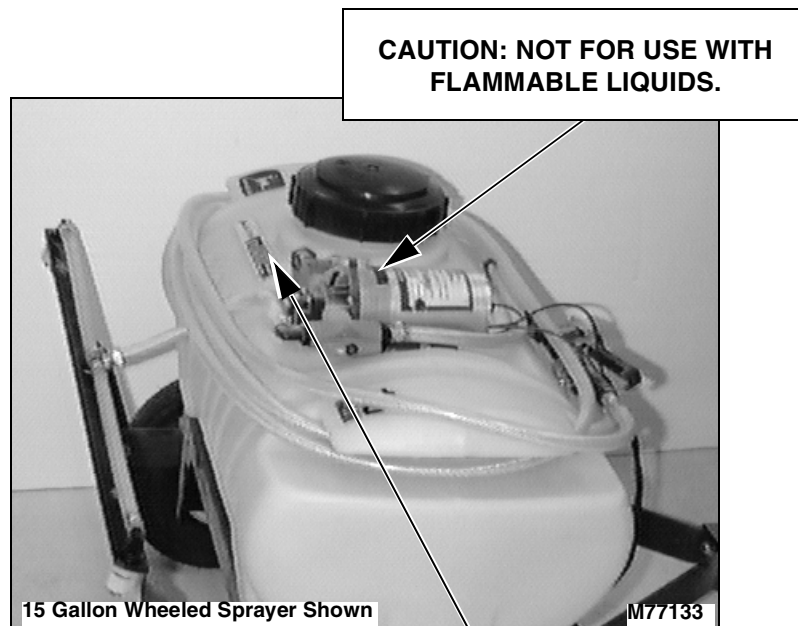
Safety-Alert Symbol

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

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



Machine Safety Labels



	CAUTION	HELP AVOID CHEMICAL INJURY
		● WEAR PROTECTIVE CLOTHING, GLOVES AND GOGGLES
		● DO NOT USE FLAMMABLE CHEMICALS
		● FOLLOW CHEMICAL MANUFACTURERS DIRECTIONS.
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PREPARING THE VEHICLE

Tractor Requirements (15 Gallon Sprayers and 25 Gallon Wheeled Sprayer)

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 (If Wheeled Sprayer)
- Tractor Trunk Mounting Frame (If Mounted Sprayer)
- Wiring Harness Extension: This part is required on all tractors that have the battery located in front of the engine. Order this wiring harness from your John Deere dealer.

On tractors equipped with rear suitcase weights or grass bagging attachments: These attachments need to be removed before installing sprayer. They are not compatible with this sprayer. Bagger mounting brackets may remain installed.

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 101 kg (222 lbs), so it is important that the unit be secured properly and that the carrying vehicle can safely carry that load.

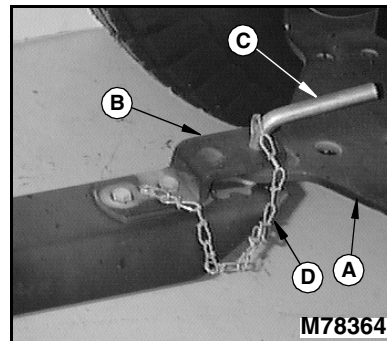
INSTALLING

Park Vehicle Safely

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

Attaching Wheeled Sprayer to Tractor

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



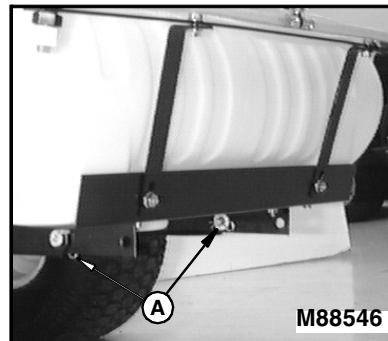
INSTALLING

Attaching Mounted Sprayer to Tractor Trunk Mounting Frame

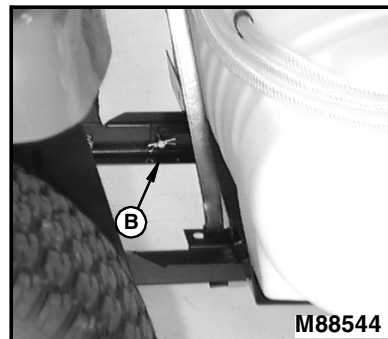
IMPORTANT: A third drilled pin and spring locking pin (B) should be installed at the front of the sprayer mounting to secure the unit to the Tractor Trunk frame so it cannot be inadvertently dumped by moving the dump lever on the tractor trunk frame.

NOTE: Tractor Trunk mounting frame must be installed.

1. Mount the sprayer on the support arms of the Tractor Trunk mounting frame using two 3/8 x 3/4-Inch drilled pins and spring locking pins (A) taken from the Tractor Trunk mounting frame assembly.

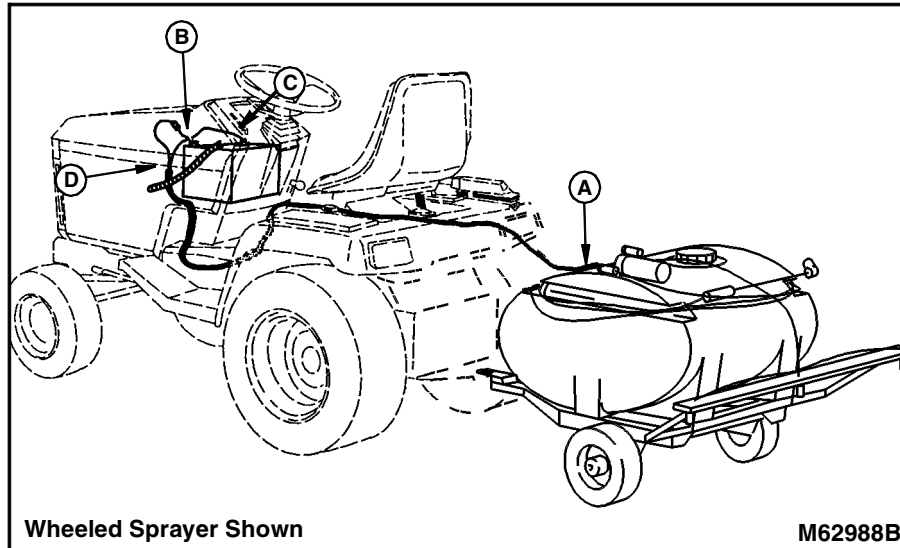


2. Install one 3/8 x 3/4-Inch drilled pin and spring locking pin (B) on right side of the sprayer mounting. (These pins can be found in the Bag of Parts.)



INSTALLING

Route Wiring Harness – Units Equipped with Mid Battery



1. Connect long end (on wheeled) or short end (on mounted) from switch to pump leads (A).
2. Route harness as shown. On some units route wire on right side of fuel tank filler.

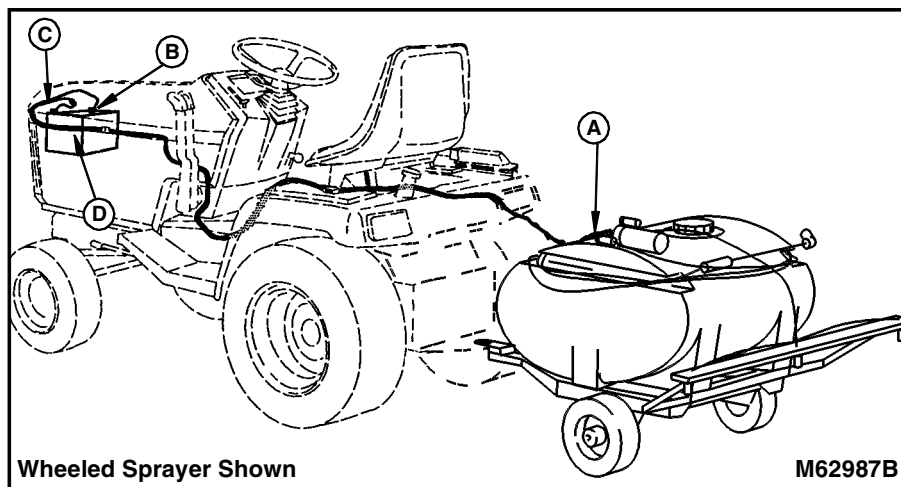
IMPORTANT: To help prevent a possible electric spark, install the red positive (+) wire to the positive battery terminal first. Then install the negative terminal.

3. Fasten red lead to positive (+) terminal (B) of battery.
4. Fasten black lead to negative (–) terminal (C) of battery.
5. Connect short end to battery leads (D) of harness.

NOTE: MAKE SURE hood does not close on wires or connectors.

INSTALLING

Route Wiring Harness – Units Equipped with Front Battery



**NOTE: You will need a 74 cm (29-in.) extension wire.
Purchase from your John Deere dealer.**

1. Connect long end (on wheeled) or short end (on mounted) from switch to pump leads (A).
2. Route wire on right side of fuel tank filler.

IMPORTANT: To help prevent a possible electric spark, install the red positive (+) wire to the positive battery terminal first. Then install the negative terminal.

3. Fasten red lead to positive (+) terminal (B) of battery.
4. Fasten black lead to negative (–) terminal (C) of battery.
5. Connect extension (D), not furnished; to short end from switch. Then route extension under forward hood rod and connect it to battery leads.

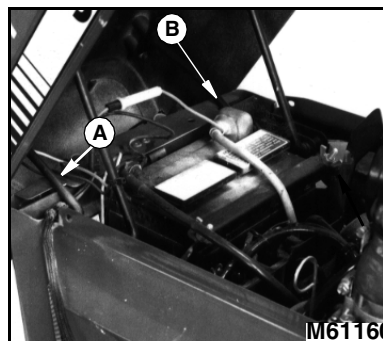
NOTE: MAKE SURE hood does not close on wires or connectors.

INSTALLING

Route Wires to Front Battery – Units So Equipped

1. Route main wire under forward hood rod (A).
2. Route red lead inside red rubber terminal cover (B).

NOTE: MAKE SURE hood does not close on wires or connectors.



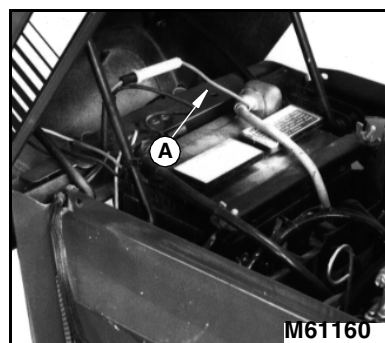
REMOVING

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.

Removing Sprayer

1. Empty the tank.
2. Flush the tank.
3. Disconnect fuse end of wire harness (A) from the main harness. Roll main harness and store with tank.



4. Fold in boom extensions, (25 Gallon Sprayer Only).



REMOVING

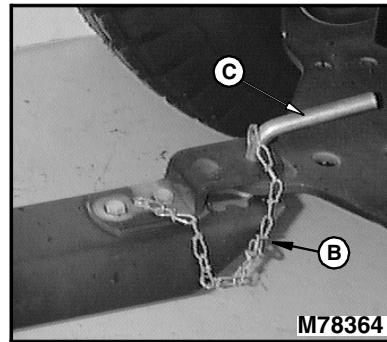
ON WHEELED SPRAYERS:

(Follow steps 5 through 7)

5. Pull spring locking pin (B) out of hitch pin and remove hitch pin (C).

6. Pull sprayer back from tractor.

7. Put hitch pin in sprayer hitch for storage.



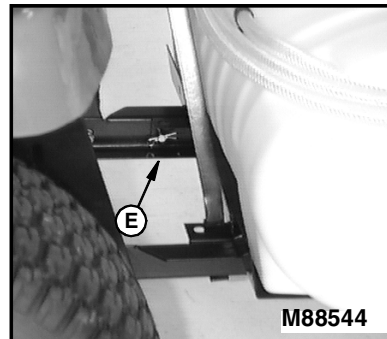
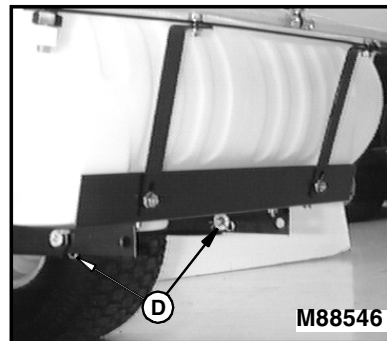
ON SPRAYER MOUNTED ON TRACTOR TRUNK FRAME:

(Follow steps 8 through 10)

8. Remove three drilled pins and spring locking pins (D) and (E).

9. Slide sprayer off Tractor Trunk frame.

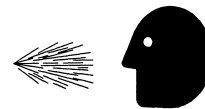
10. Put pins (D) in Tractor Trunk mounting frame and pins (E) with sprayer for storage.



OPERATING

SAFETY

Operate Safely



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

OPERATING

Wear Appropriate Clothing



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

Use Chemicals Safely



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

OPERATING

Dispose of Chemicals Safely



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

Lifting Portable Sprayer Safely

- Use caution when lifting the portable sprayer to help prevent possible injury.
- When filled with liquid, the 25 gallon portable sprayer weighs 101 kg (222 lbs). 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 101 kg (222 lbs). This extra weight on the back of a vehicle, AMT, cart, wheelbarrow, etc. could change the stability of the machine which you chose for transportation.

OPERATING

Transporting Wheeled Sprayer Safely

- Push pump switch to OFF position.
- 25 Gallon Only: Fold boom extensions in their transport position.

Spraying Tips

- Check sprayer tip height. Dimension should be 432 mm (17 in.). If not, adjust sprayer tip height before operating. (See Adjusting Tip Height and Width in this section.)
- Do not let sprayer run in one spot.
- Do not over spray when you use weed killers.
- Liquid spray material is recommended. Sprayer does not agitate wettable powders.
- Timely applications of a smaller dosage are better than large applications.
- Turn sprayer OFF during turns to avoid double spraying.
- Fill sprayer where spills cannot harm grass.
- Follow manufacturer's recommendations for application of specific chemicals.
- Stop sprayer when tank is empty.

OPERATING

General Spraying Information

Understand the following information about your sprayer. The unit operates at a fixed pressure of 29 kg (65 lbs). This results in actual spraying time of 42 minutes for the 25 gallon unit, and 25 minutes for the 15 gallon unit.

15 GALLON SPRAYER APPLICATION: The 15 gallon sprayer takes 12 minutes to empty the tank using the spray boom. Plan on driving about 3 mph or 264 ft. per minute. That gives you 15,840 square ft. of spray coverage per tank. Plan on about 10 per cent overlap, so put enough chemical in the tank for 14,000 square ft. of spray coverage.

25 GALLON SPRAYER APPLICATION: The 25 gallon sprayer takes 16 minutes to empty the tank using the spray boom. Plan on driving 2.5 mph or 220 ft. per minute. That gives you 26,400 square ft. of spray coverage per tank. Plan on about 10 per cent overlap, so you should put enough chemical in the tank to spray 24,000 square ft. of spray coverage.

OPERATING

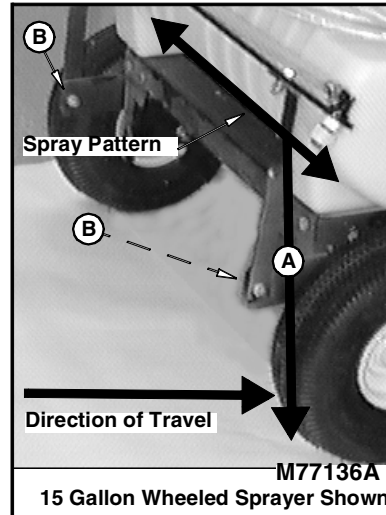
Adjusting Tip Height and Width

NOTE: Photos are of the 15 Gallon Wheeled Sprayer.
Sprayer should be attached to tractor for this adjustment.

1. On WHEELED SPRAYERS, the sprayer tips should be 432 mm (17 in.), and On MOUNTED SPRAYERS, 406 mm (16 in.), (Dimension A), from the ground and perpendicular with the direction of travel.

2. ON WHEELED SPRAYER: Tighten hex nut (B) on each boom support, after you have obtained the correct tip height and width.

3. Test spray pattern with water on driveway or sidewalk.



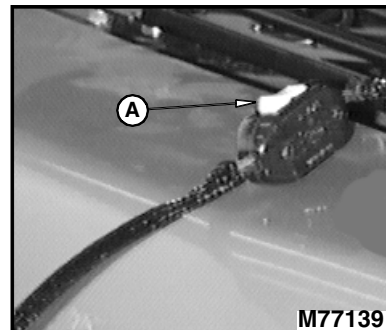
Starting and Stopping Sprayer



CAUTION: Before you leave sprayer, disconnect pump connection.

IMPORTANT: Sprayer will start when tractor IS NOT running. Start tractor to avoid running down battery.

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



OPERATING

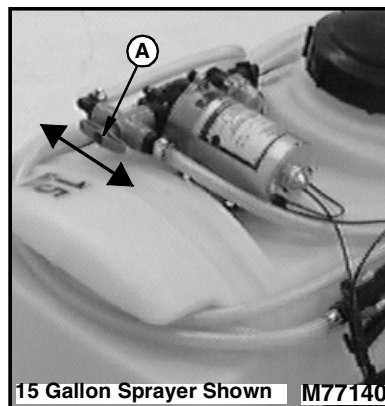
Using Handgun and Boom Nozzles

NOTE: The shut-off valve lever on the sprayer has three positions:

- **OFF POSITION:** Lever is in the VERTICAL position.
- **HANDGUN POSITION**
- **BOOM POSITION.**

The arrow on the lever shows which direction the flow is directed.

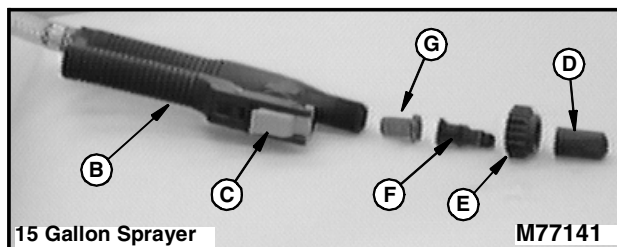
1. TO SHUT OFF SPRAY TO THE BOOM NOZZLES: Turn lever (A) so that the arrow on the lever points to the front end of sprayer. You can now use the handgun for spraying.



TO SHUT OFF SPRAY TO THE HANDGUN: Turn lever (A) so that the arrow on the lever points to the rear end of sprayer. You can now use the boom nozzles for spraying.

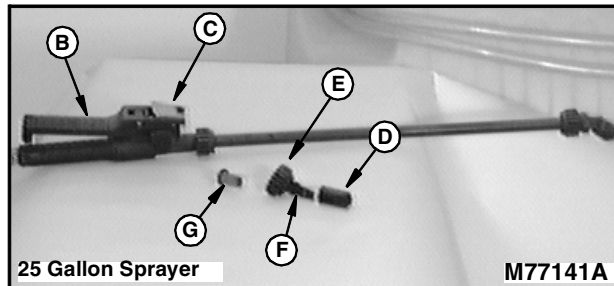
NOTE: The longer handgun is used on the 25 Gallon Sprayer only.

2. Squeeze handle (B) to spray.
3. Push lock (C) forward to lock handle in "ON" position.
4. Turn cap (D) to adjust spray pattern.
5. Remove cap (D), nut (E), tip (F) and filter (G) for cleaning.

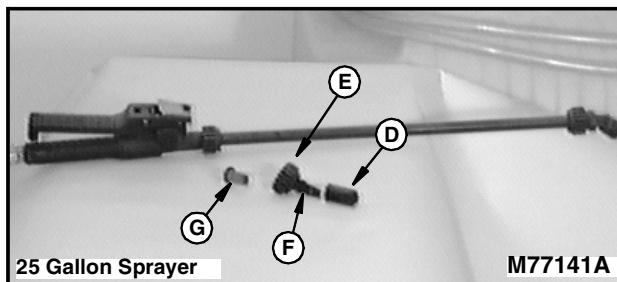
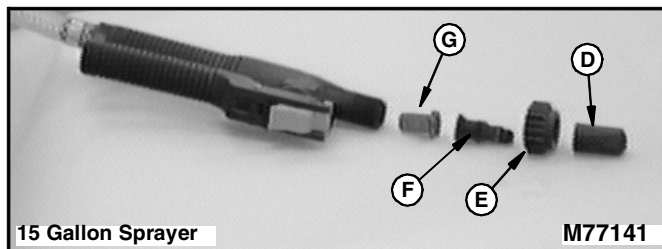


OPERATING

6. Squeeze handle (B) to spray.
7. Push lock (C) forward to lock handle in "ON" position.
8. Adjust spray pattern by turning cap (D).
9. Remove cap (D), nut (E), tip (F) and filter (G) for cleaning.



10. Put filter (G) in gun handle first.
11. Put tip (F) in nut (E) and install on end of handgun and tighten.
12. Put cap (D) on handgun and tighten or loosen as necessary to get the proper spray pattern.

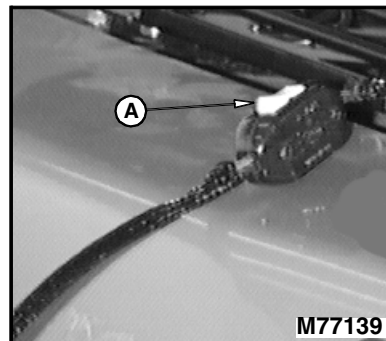


OPERATING

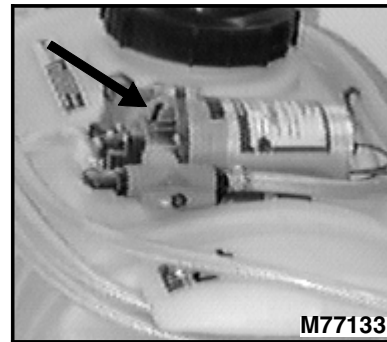
Adjusting Pump

- IMPORTANT:**
- Stop turning wrench as soon as pump runs smoothly, or you may damage pump.
 - Start tractor when you use sprayer to avoid running down battery.

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



4. Turn allen wrench clockwise until pump runs smoothly.



REPLACEMENT 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. This is the number you have recorded in the **INTRODUCTION** section in the front of this manual.

ITEM	PART NUMBER
Tip Strainer	AM106667
Fuse (15 amp)	AT39227

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

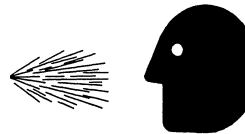
If you would like a copy of the Parts Catalog for this machine, please use the **Order Form** in the JOHN DEERE SERVICE LITERATURE section.

SERVICE MACHINE SAFELY

Practice Safe Maintenance

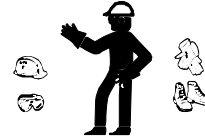


- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent them from getting caught, keep hands, feet, clothing, jewelry, and long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



SERVICE MACHINE SAFELY

Wear Appropriate Clothing

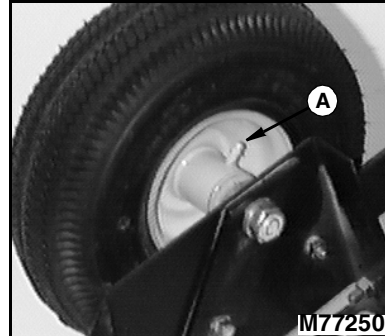


- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.

SERVICE

Greasing Wheels

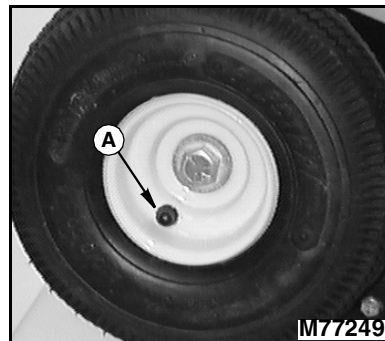
Grease wheels at point (A) with John Deere multipurpose grease or an equivalent.



Checking Tire Pressure

Check tire pressure at point (A).

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

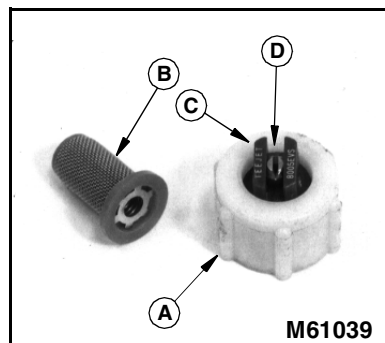


Cleaning Spray Nozzle

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

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

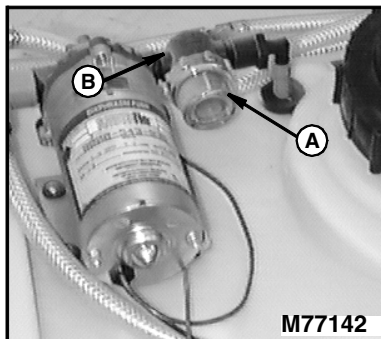
3. Wash filter and spray tip in a non-flammable solvent.
4. Put spray tip in spray nozzle.
5. Put flat side of filter in spray nozzle.
6. Install assembly on sprayer and tighten nozzle.



SERVICE

Cleaning Pump Filter

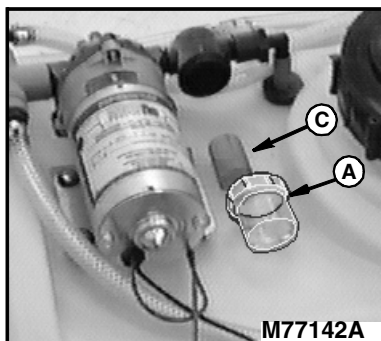
1. Remove filter cover (A) from filter body (B).



2. Remove screen (C) and wash in liquid detergent and warm water.
3. Put screen in filter cover and install on filter body.

NOTE: Make sure filter cover gasket is in position.

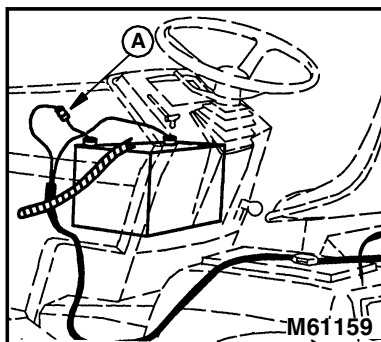
4. Tighten cover.



Changing Fuse

IMPORTANT: Use only 15 amp fuse. Do not run sprayer without fuse.

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 fuse.
6. Twist holder closed.
7. Close tractor hood.



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 filter. Install filter. Make sure filter gasket is in place.
	Check tank fill level. Fill tank.
	Clean or replace pump.
	Check for loose pump fittings.
Pump Capacity Decreased	Clean pump filter. Install filter. Make sure filter gasket is in place.
	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.
	Adjust spray direction perpendicular to the travel direction.
Pump Vibrates or Spray Pulsates	Adjust pump.

TROUBLESHOOTING

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

STORING SPRAYER

Store Sprayer Safely



CAUTION:



To avoid chemical injury:

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

1. Pump all spray material from tank.
2. Flush tank with water.
3. Rinse tank thoroughly with a solution of household ammonia and water.
4. Flush again with clear water.
5. Wipe out sump with a clean cloth or paper towel.
6. Drain hoses and pump filter.
7. Remove wiring harness from tractor.
8. Fold in boom extensions (25 Gallon Sprayer Only).
9. Remove sprayer from tractor. See Removing Sprayer in the Removing section.
10. Check sprayer for worn or damaged parts. Replace parts as needed.
11. Tighten loose hardware.
12. Store sprayer in a place where it will not freeze.



25 Gallon Sprayer

M78365A

ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Bag of Parts (15 and 25 Gallon Wheeled Sprayers)

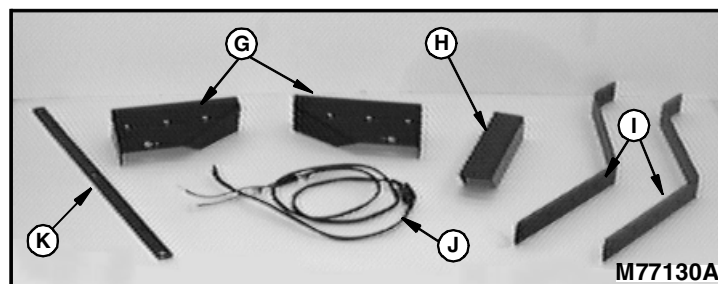
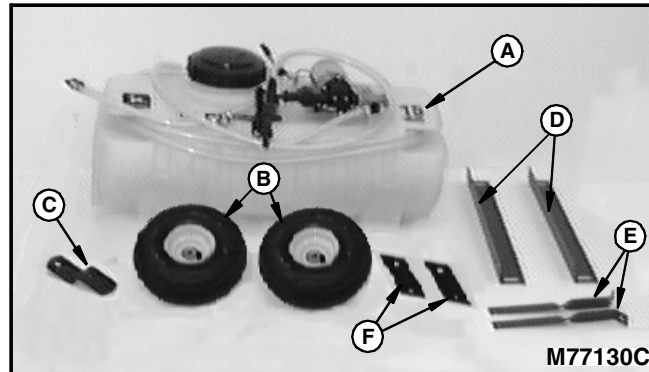
NOTE: These parts are the same for both the 15 Gallon Sprayer and the 25 Gallon Sprayer excluding the 25 Gallon Portable Sprayer unless noted differently.

Qty. Used	Part Description	Size
24	Cap Screws	M8 x 25
24	Hex Nuts	M8
24	Lock Washers	M8
2	Truss Head Bolts	M8 x 15 (25 Gallon Only)
2	Elastic Lock Nuts	M8 (25 Gallon Only)
4	Flange Head Cap Screws	5/16 x 3/4 in.
4	Flat Washers	3/8 in.
2	Axle Bolts (Cap Screws)	5/8 in. x 4 in.
4	Jam Nuts	5/8 in.
2	Lock Washers	5/8 in.
2	Flat Washers	5/8 in.
1	Tethered Chain Assembly	Includes hitch pin, chain, spring locking pin and spring locking ring.
2 3	Spray Tip Nuts (15 Gallon) Spray Tip Nuts (25 Gallon)	
2 3	Spray Tip Cap Nuts (15 Gallon) Spray Tip Cap Nuts (25 Gallon)	
2 3	Spray Tip Strainers (15 Gallon) Spray Tip Strainers (25 Gallon)	
2 3	Spray Tips (15 Gallon) Spray Tips (25 Gallon)	

ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Identify Parts (15 Gallon Wheeled Sprayer)



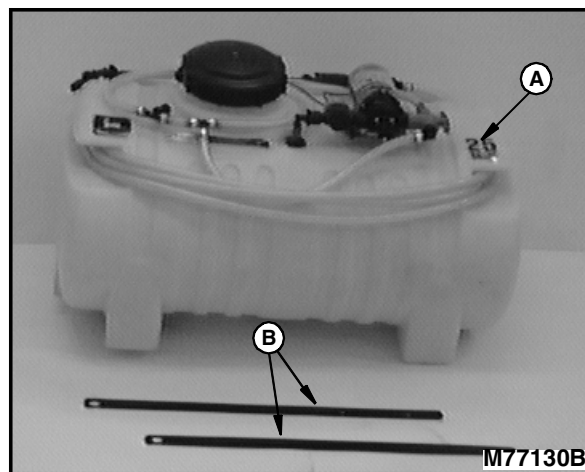
A – 15 Gallon Sprayer Base Unit (Tank with pump and hoses attached)	
B – (2) Wheels	G – (2) End Plates
C – Hitch Clevis	H – Hitch Extension
D – (2) Tank Supports	I – (2) Hitch Supports
E – (2) Boom Supports	J – Wiring Harness
F – (2) Axle Mount Plates	K – Main Boom
Bag of Parts	

ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Identify Parts (Wheeled Model) (25 Gallon)

NOTE: The 25 gallon sprayer parts are the same as the parts listed on the previous page for the 15 gallon sprayer except for the parts listed below.

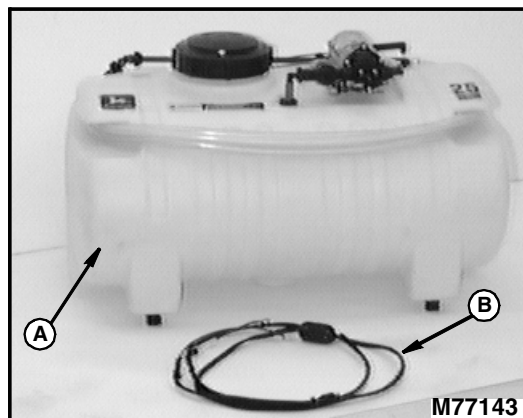


- | |
|--|
| A – 25 Gallon Sprayer Base Unit
(Tank with pump and hoses attached) |
| B – (2) Boom Extensions |

ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Identify Parts (Portable Model)



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

B – Wiring Harness

NOTE: Tools needed to assemble either the 15 Gallon or the 25 Gallon Sprayer are:

- Two 13 mm Wrenches
- One 1/2 in. Wrench
- Two 15/16 in. Wrenches
- One 3/8 in. Screw Driver

All photos taken for this section are of the **15 Gallon Sprayer**.

When an application was for only the **15 Gallon Sprayer** or the **25 Gallon Sprayer** it was indicated either in the heading or in the photo itself.

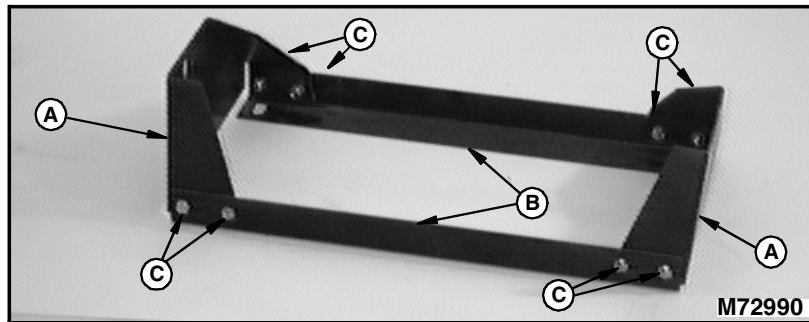
ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Assemble End Plates to Tank Supports (15 Gallon Wheeled Sprayer)

1. Install end plates (A) to the tank supports (B).

IMPORTANT: Slots in tank support (B) MUST BE assembled to the inside of end plates (A).



NOTE: Install nuts to the inside.

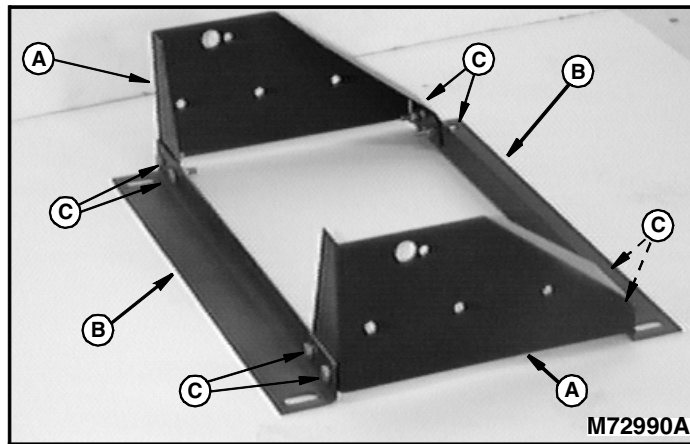
2. Fasten with eight M8 x 25 cap screws (C), (four on each side) lock washers and hex nuts. Tighten nuts.

ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Assemble End Plates to Tank Supports (25 Gallon Sprayer)

1. Install end plates (A) to the tank supports (B).



NOTE: Install nuts to the inside.

2. Fasten with eight M8 x 25 cap screws (C) (four on each side), lock washers and hex nuts. Tighten nuts.

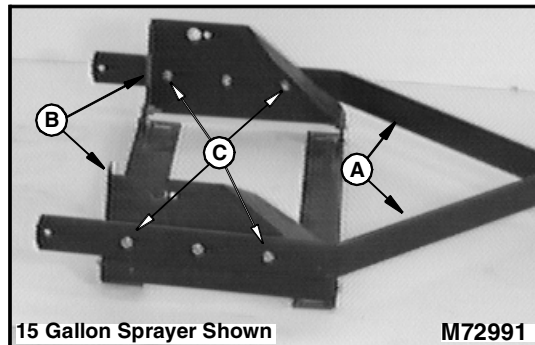
ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Assemble Hitch Supports to End Plates and Drawbar to Hitch Supports

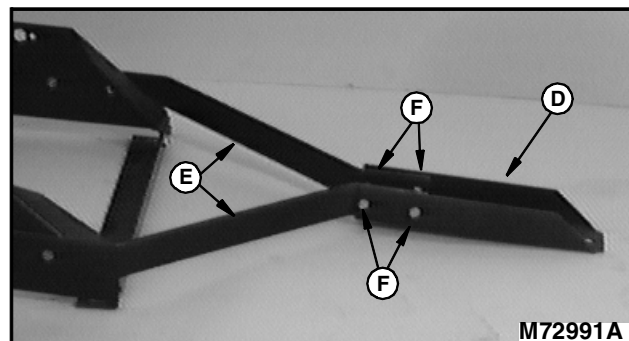
NOTE: Install nuts to the inside.

1. Install each hitch support (A) to each end plate (B) and fasten with four M8 x 25 cap screws (C) (two on each side), lock washers and hex nuts. Do Not install cap screws in center holes of end plates at this time. (See Install Axle Mount Plates and Wheels to End Plates in this section).



2. Install drawbar (D) with hitch supports (E) inside of channel and fasten with four M8 x 25 cap screws (F), lock washers and hex nuts.

3. Tighten nuts.



ASSEMBLY

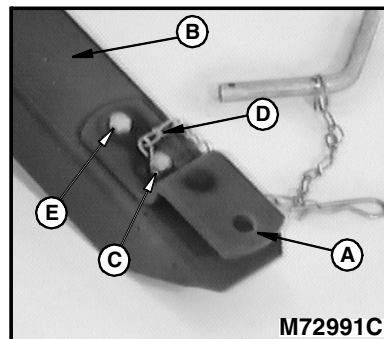
WHEELED AND PORTABLE SPRAYERS

Assemble Hitch Clevis to Drawbar

NOTE: Install nuts to the inside.

1. Install hitch clevis (A) on drawbar (B):

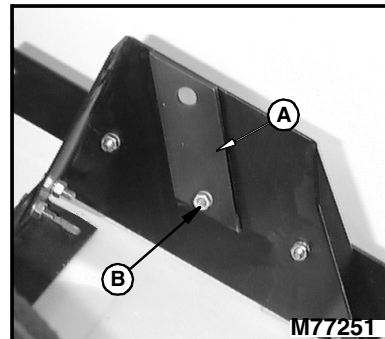
- Install M8 x 25 cap screw in front hole (C) of clevis securing the S-hook on tethered chain (D). Fasten with lock washer and nut.
- Install M8 x 25 cap screw through rear hole (E) of clevis. Fasten with lock washer and nut.



Install Axle Mount Plates and Wheels to End Plates

NOTE: Install nuts to the inside.

1. Install axle mount plates (A), one on each side, using M8 x 25 cap screws, lock washers and hex nuts in center hole (B) of end plates. DO NOT tighten.

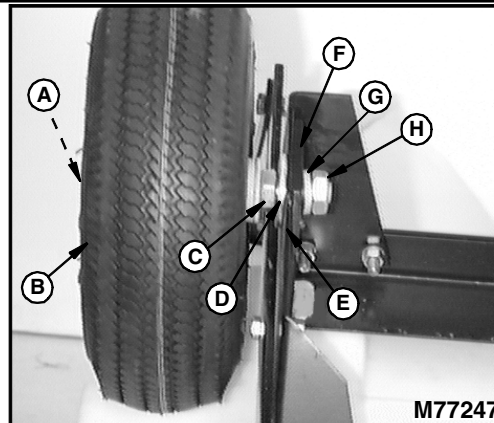
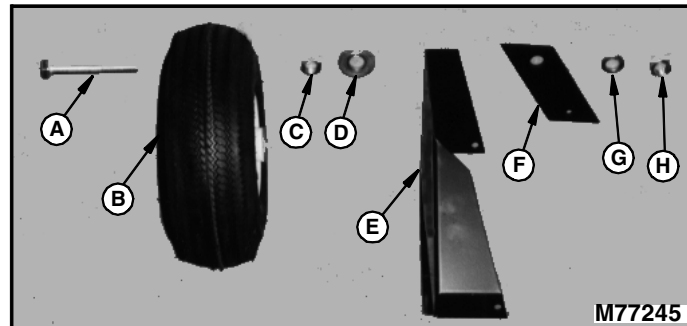


ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

IMPORTANT: Assemble wheel so tire valve stem faces outside and grease fitting faces inside.

2. Install wheels to end plates using axle bolt assembly as shown.



(A) - Cap Screw (5/8 in. x 4 in.)	(E) - End Plate
(B) - Wheel	(F) - Axle Mount Plate
(C) - Jam Nut (5/8 in.)	(G) - Lock Washer (5/8 in.)
(D) - Flat Washer (5/8 in.)	(H) - Jam Nut (5/8 in.)

NOTE: To allow room for tightening, leave approximately 1/8 in. between wheel and jam nut (C).

3. Adjust jam nut (C) so that wheel turns free on axle bolt.

4. Tighten center cap screw installed in Step #1.

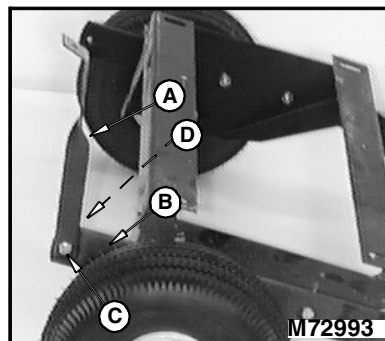
ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Assemble Spray Boom Supports to Tank Supports

NOTE: Install nuts to the inside.

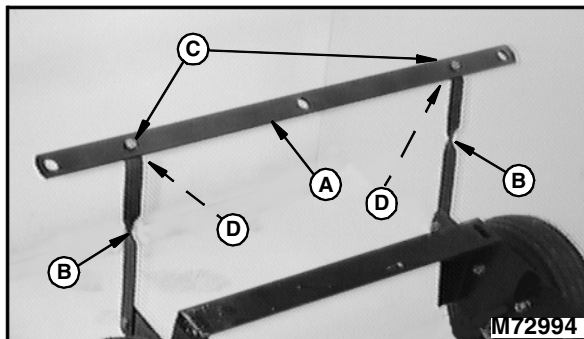
1. Turn sprayer frame right side up.
2. Install boom support (A) to tank support (B) with one M8 x 25 cap screw (C), lock washer and hex nut (D).
3. Tighten nut.
4. Repeat above steps for the other side.



Assemble Spray Boom to Spray Boom Supports (15 Gallon Wheeled Sprayer)

NOTE: Install nuts to the inside.

1. Put spray boom (A) on spray boom supports (B) and fasten with two M8 x 25 cap screws (C), lock washers and hex nuts (D).
2. Tighten hex nuts.



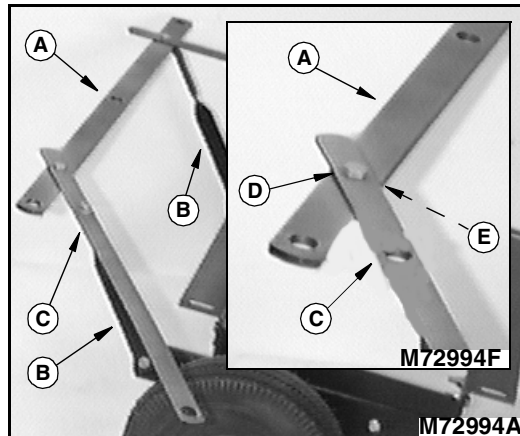
ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Assemble Spray Boom to Boom Supports and Spray Boom Extensions to Main Boom (25 Gallon Sprayer)

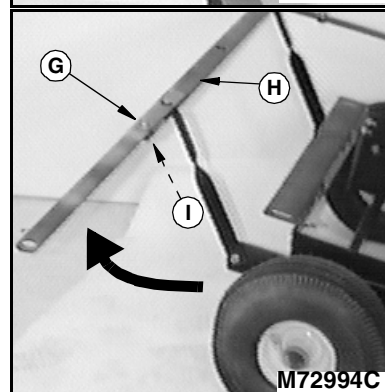
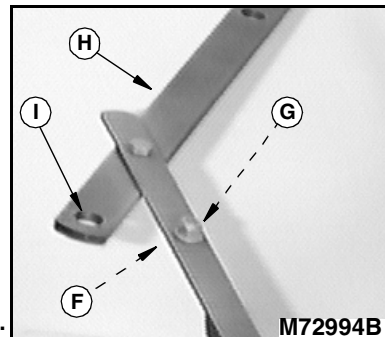
NOTE: Install nuts to the inside.

1. Put spray boom (A) on spray boom supports (B).
2. Put each boom extension (C) on top of spray boom and fasten with two M8 x 25 bolts (D) and elastic lock nuts (E).
3. Tighten nuts until they are snug.



NOTE: Boom extensions should fold in easily.

4. Make sure bolt head is underneath and nut is on top.
5. Install two M8 x 15 truss head bolts (F), lock washers, and nuts (G).
6. Tighten nuts.
7. Move each extension to the rear so they are in line with the main boom (H).
8. Secure in place by putting head of truss head bolt in hole (I) on main boom.



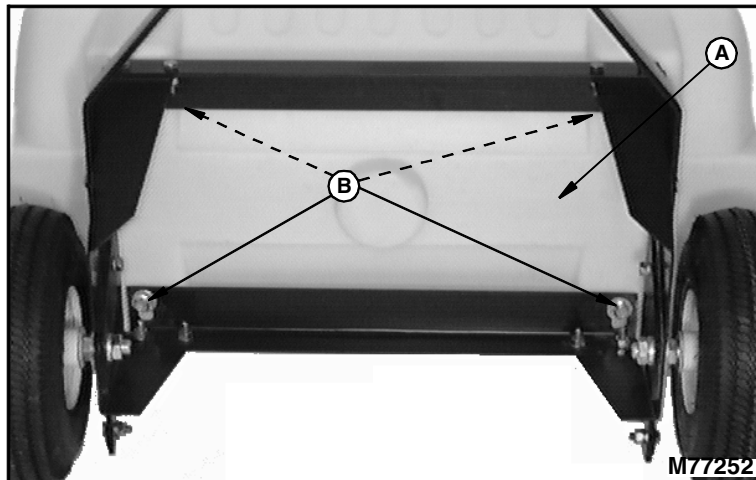
ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Assemble Sprayer Tank to Sprayer Frame

IMPORTANT: Assemble tank so “Leaping Deere”, safety label, and “Gallon” number are on rear of sprayer.

1. Position sprayer frame on rear end.
2. Put sprayer tank (A) on sprayer frame and fasten with four 5/16 x 3/4-in. flange head cap screws and flat washers (B).
3. Tighten four cap screws.



ASSEMBLY

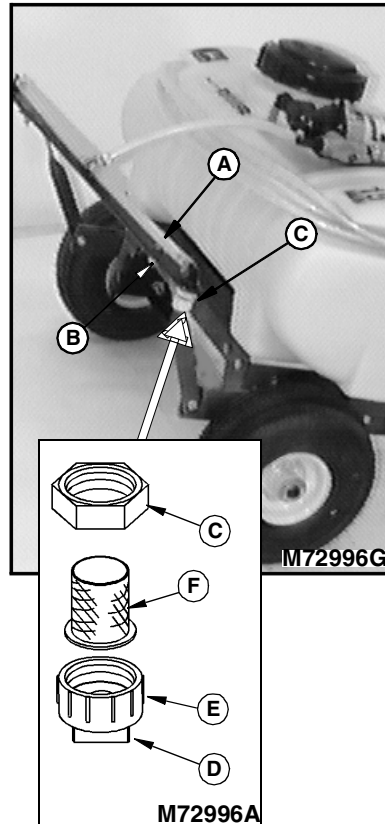
WHEELED AND PORTABLE SPRAYERS

Install Boom Hose Assembly (15 Gallon Wheeled Sprayer)

1. Put one end of hose assembly (A) in hole in boom (B).
2. Install and tighten fitting lock nut (C).
3. Install spray tip (D) in cap nut (E).
4. Put flat side of strainer (F) on top of spray tip.

NOTE: Make sure spray tip sets crossways to the direction of travel in the cap nut.

5. Turn fitting cap nuts onto end of hose assembly.
6. Repeat the above steps for the other end of hose assembly.
7. Adjust tip height and width. (See Adjusting Tip Height and Width in the Operating section.)

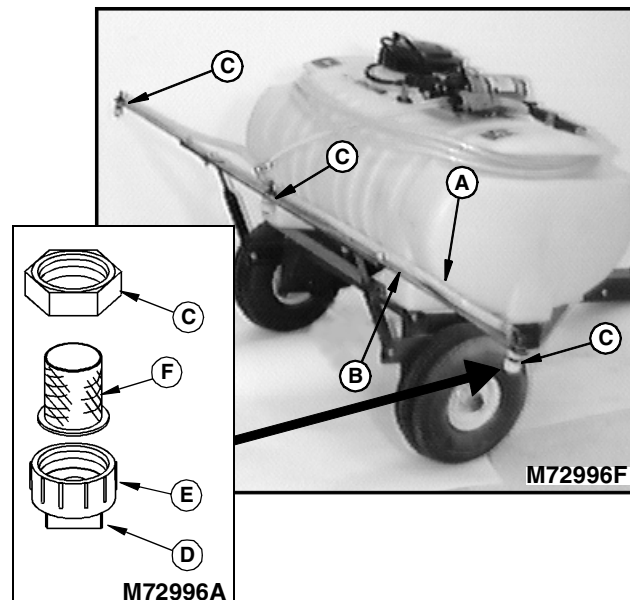


ASSEMBLY

WHEELED AND PORTABLE SPRAYERS

Install Boom Hose Assembly (25 Gallon Sprayer)

1. Put one end of hose assembly (A) in hole in boom (B).
2. Install and tighten fitting lock nut (C).



3. Install spray tip (D) in cap nut (E).
 4. Put flat side of strainer (F) on top of spray tip.
- NOTE: Make sure spray tip sets crossways to the direction of travel in the cap nut.**
5. Turn fitting cap nuts onto end of hose assembly.
 6. Repeat the above steps for the middle hose assembly and the other end of hose assembly.
 7. Adjust tip height and width. (See Adjusting Tip Height and Width in the Operating section.)

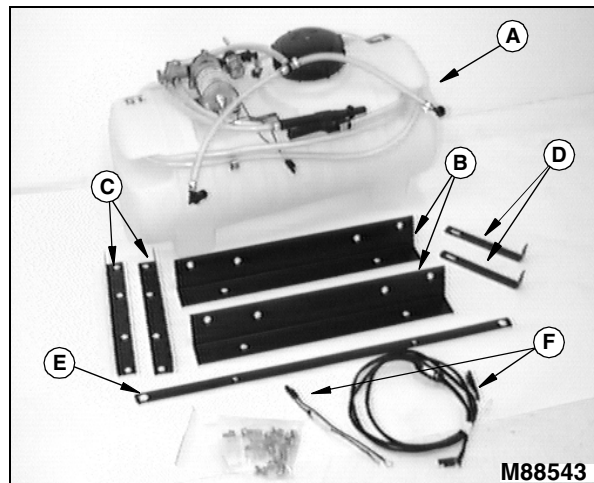
ASSEMBLY

MOUNTED SPRAYERS

Bag of Parts (15 Gallon Mounted Sprayers)

Qty. Used	Part Description	Size
12	Flange Bolts	5/16 x 5/8 Inch
8	Flange Nuts	5/16 Inch
1	Drilled Pin	3/8 x 3/4 Inch
1	Spring Locking Pin	
2	Spray Tip Nuts (15 Gallon)	
2	Spray Tip Cap Nuts (15 Gallon)	
2	Spray Tip Strainers (15 Gallon)	
2	Spray Tips (15 Gallon)	

Identify Box of Parts (15 Gallon Mounted Sprayer)



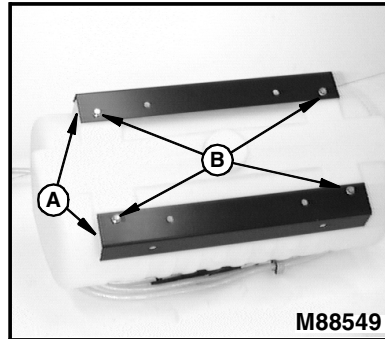
A – 15 Gallon Sprayer Base Unit (Tank with pump and hoses attached)	
B – (2) Tank Supports	E – (1) Spray Boom
C – (2) Mount Angles	F – Wiring Harness
D – (2) Boom Supports	Bag of Parts

ASSEMBLY

MOUNTED SPRAYERS

Install Tank Supports to Sprayer

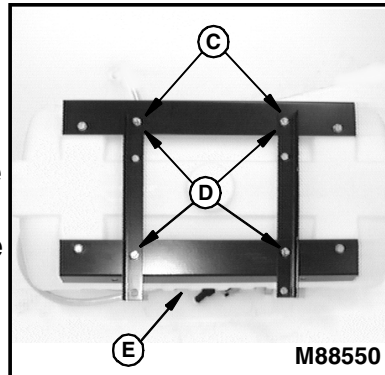
1. Install two tank supports (A) to the bottom of the spray tank assembly using four 5/16 x 5/8-Inch flange bolts (B).
DO NOT tighten at this time.



2. Install two mount angles (C) using four 5/16 x 5/8-Inch flange bolts and four 5/16-Inch flange nuts (D).

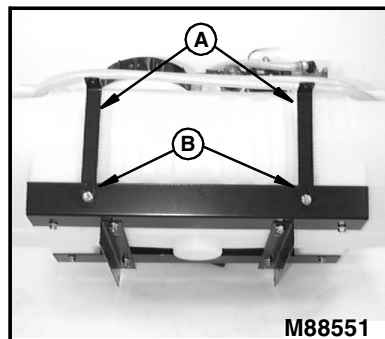
NOTE: The ends that extend past the tank support should be on the same side as the handgun on the front of the tank (E).

3. Tighten all hardware.



Install Boom Supports and Main Boom

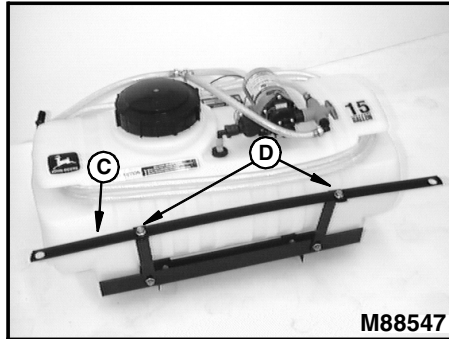
1. Install two boom supports (A) using two 5/16 x 5/8-Inch flange bolts and two 5/16-Inch flange nuts (B).



ASSEMBLY

MOUNTED SPRAYERS

2. Install the spray boom (C) to the boom supports using two 5/16 x 5/8-Inch flange bolts and two 5/16-Inch flange nuts (D).
3. Tighten nuts.

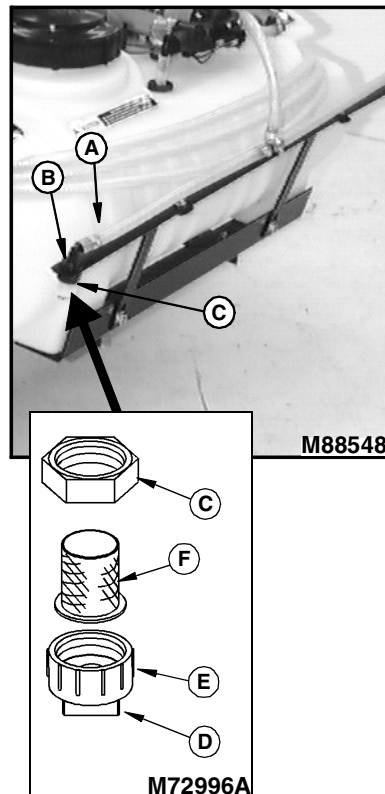


Install Boom Hose Assembly (15 Gallon Mounted Sprayer)

1. Put one end of hose assembly (A) in hole in boom (B).
2. Install and tighten fitting lock nut (C).
3. Install spray tip (D) in cap nut (E).
4. Put flat side of strainer (F) on top of spray tip.

NOTE: Make sure spray tip sets crossways to the direction of travel in the cap nut.

5. Turn fitting cap nuts onto end of hose assembly.
6. Repeat the above steps for the other end of hose assembly.
7. Adjust tip height and width. (See Adjusting Tip Height and Width in the Operating section.)



SPECIFICATIONS

Model 15 Gallon Sprayer

Tank	57 L (15 gallon)
Pump:	
• Type	Electric Motor and Diaphragm
• Manufacturer	Shurr Flo
• Current Draw	7 amp
• Fuse	15 amp
Spray Rate	4.8 L/min. (1.25 U.S. gal./min.)
Suction Hose Strainer	Stainless Steel
Spray Tip Material	Two 90° Stainless Steel
Handgun Material	Plastic
Handgun Adjustment	Fan To Stream
Wheeled:	
Unit Weight (Empty)	25 kg (55 lbs)
Unit Weight (Full)	79 kg (175 lbs)
Mounted:	
Unit Weight (Empty)	15 kg (35 lbs)
Unit Weight (Full)	69 kg (153 lbs)

SPECIFICATIONS

Model 25 Gallon Sprayers (Wheeled and Portable)

Tank	95 L (25 gallon)
Pump:	
• Type	Electric Motor and Diaphragm
• Manufacturer	Shurr Flo
• Current Draw	7 amp
• Fuse	15 amp
Spray Rate	5.9 L/min. (1.56 U.S. gal./min.)
Suction Hose Strainer	Stainless Steel
Spray Tip Material	Three 90° Stainless Steel
Handgun Material	Plastic
Handgun Adjustment	Fan To Stream
Unit Weight (25 Gallon)(Empty)	28 kg (62 lbs.)
Unit Weight (25 Gallon)(Full)	119 kg (262 lbs.)
Unit Weight (25 Gallon Portable)(Empty)	20 kg (22 lbs.)
Unit Weight (25 Gallon Portable)(Full)	101 kg (222 lbs.)

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JOHN DEERE SERVICE LITERATURE

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To order these publications, fill out this form and the payment information and mail it to the address above. Make checks payable to John Deere. Please allow three weeks for delivery. No COD orders, please. Do not send cash or stamps. To place credit card orders, call **1-800-522-7448**. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product.

Title	Order Number	Price Each	x Quantity	= Total
Parts Catalog	PC2231	(Call 1-800-522-7448 for current prices.)	X	=
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			X	=
			X	=
Fundamentals of Service (FOS) Manuals:				
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Signature:		50.00 to 99.99	7.50	
		100.00 and over	4% of sub total	

NOTES



QUALITY DOESN'T END WHEN YOU INVEST IN A DEERE

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.

