

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Sprayer Attachment for ProGator
HD200

OMTCU19538 G7

OPERATOR'S MANUAL



JOHN DEERE

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John Deere Worldwide Commercial and Consumer Equipment Division

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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.

Machine Use

This machine is designed solely for use in customary lawn and turf spraying operations. Use in any other way is considered as contrary to the intended use.

Agricultural applications covered by national environmental protection standards or legal requirements are not allowed with this sprayer. Contact local authorities if the acceptance for the use of the sprayer is not obvious.

The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

This machine should be operated, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times.

Setting fuel delivery beyond published factory specifications or otherwise overpowering will result in loss of warranty protection for this machine.

Any arbitrary modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

Product Identification

Product Compatibility

The HD200 Sprayer Attachment is compatible with PROGATOR™ utility vehicles.

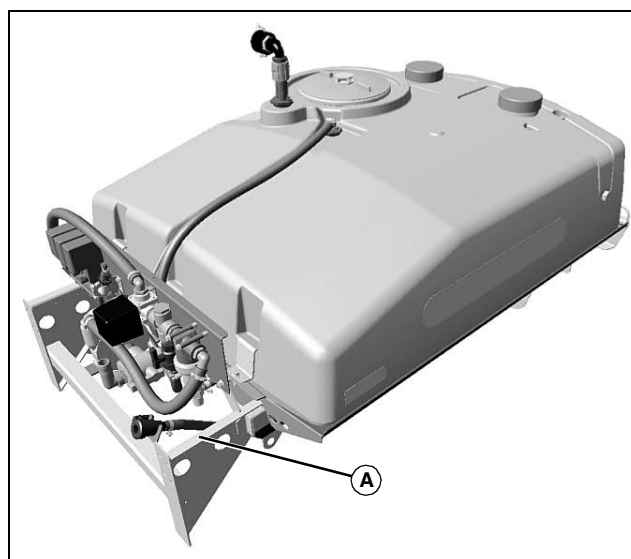
Record Identification Numbers

Sprayer Attachment

HD200 Serial Number - (035101 -)

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

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



MX19912

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT SERIAL NUMBER (A):

Safety Labels

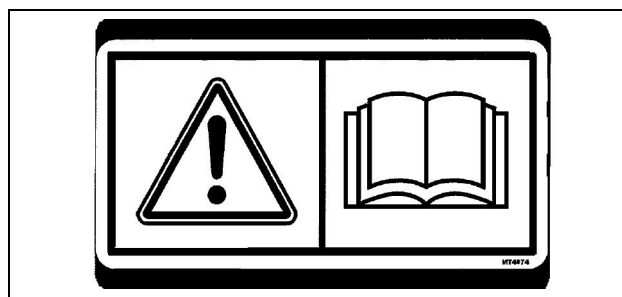


Pictorial Safety Signs

At several important places on this machine safety signs are affixed intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury.

These safety signs, their placement on the machine and a brief explanatory text are shown in this Safety section.

Avoid Injury Read Operator's Manual

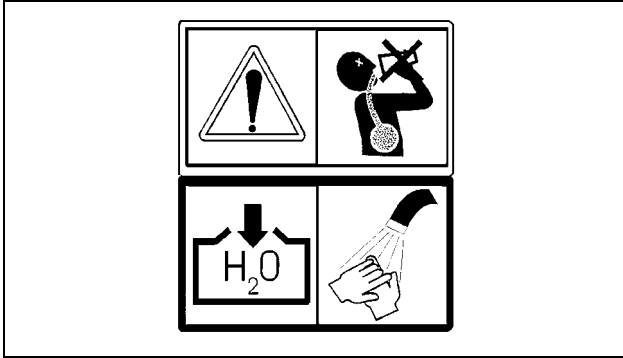


MT4074

- Empty tank before removing attachment.
- Winterize system when finished each day when operating in near freezing conditions.
- Check system is at 0 PSI (0 kPa) before starting.

SAFETY

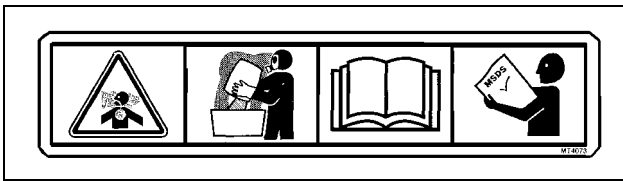
Danger - Avoid Injury from Contaminated Water



MT4295

- To avoid injury, do not drink water from this container. It may be contaminated. Use for rinse/wash purposes only.

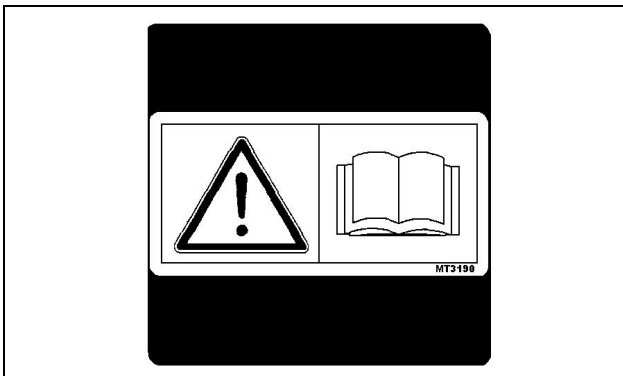
Warning - Avoid Injury from Chemical Hazards



MT4072

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

Read Operator's Manual

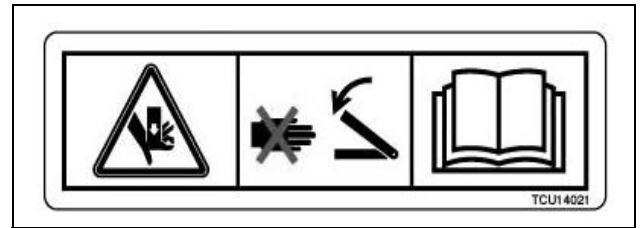


MT3190

- To avoid injury, read operator's manual.
- Ballast power unit per operator's manual.
- Know location and function of all controls.
- Keep all shields in place.
- Stay clear of power driving parts.
- Never carry riders.
- Keep children and pets a safe distance away from machine.
- Remove attachment from power unit on a level, flat, hard surface.
- Before leaving machine:
 - Stop engine.
 - Set park brake.

- Lower or block up machine.
- Remove key.

Warning - Avoid Injury from Pinch Point

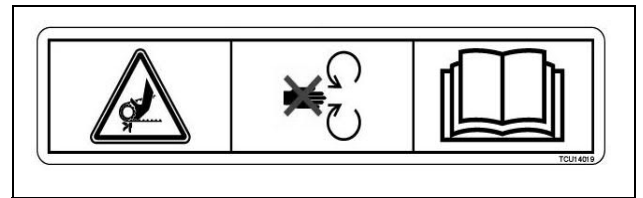


TCU14021

Picture Note: Optional electric actuator kit shown.

- To avoid injury, keep hands and fingers away from this area.

Caution - Avoid Injury from Being Crushed or Cut

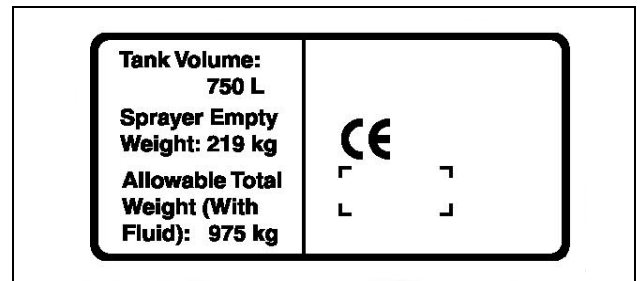


TCU14019

Picture Note: Optional electric hose reel kit shown.

- Moving parts can crush and cut. Keep hands clear. Do not operate with guards removed.

CE Certification and Specification Label



TCU18622

- This label on your machine indicates that this model has been certified and is in compliance with European Directive 98/37/EC (89/392EEC) Standards.

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

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Thank you very much for reading.

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SAFETY

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 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.

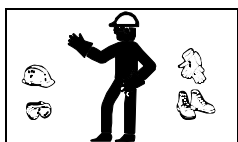
Practice Safe Maintenance

- 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

PREPARING VEHICLE

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.
- 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

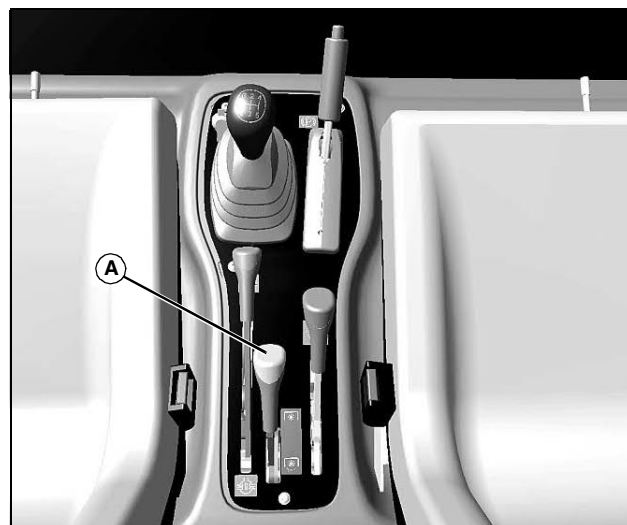
Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people:

- 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.

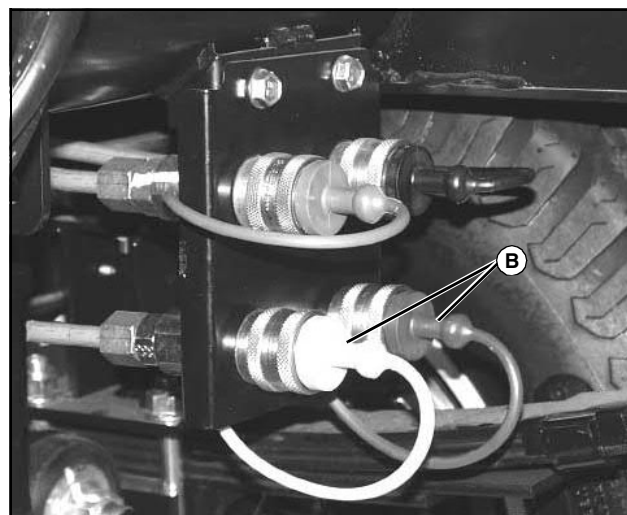
Preparing Vehicle

Preparing the Machine

Machine Requirements



MX19916



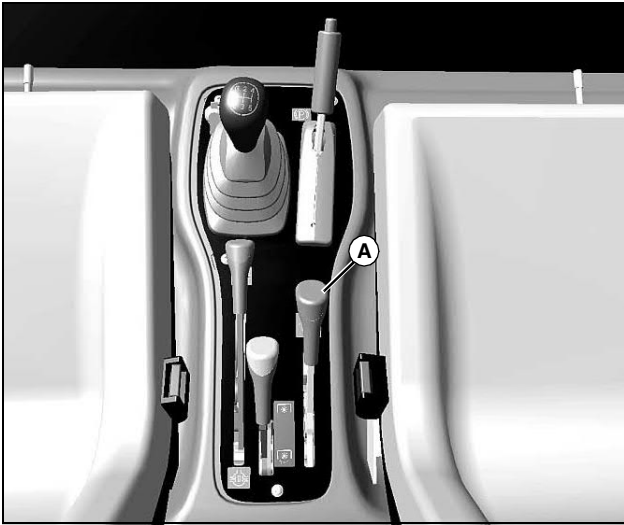
MX2928

Your machine must be equipped with optional Auxiliary Hydraulic Kit for operation of the sprayer pump. If machine is equipped with PTO control lever (A), two quick-couplers (B) at the rear of the machine, an auxiliary tank, and oil cooler, the Auxiliary Hydraulic Kit is installed. If necessary, see your John Deere dealer to order kit.

PREPARING VEHICLE

Prepare for Assembly

1. Park machine safely.
2. Remove any attachment that uses the hydraulic lift or rear pivots.



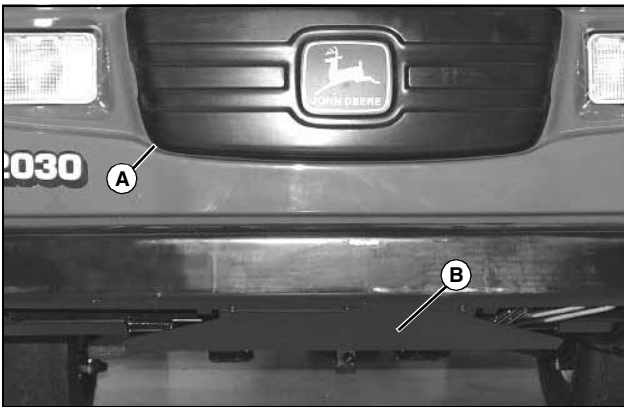
MX19916

3. Use lift cylinder control lever (A) and extend lift cylinder rod approximately 25 to 30 cm (10 to 12 in.).

Install Control Panel and Front Harness

IMPORTANT: Avoid damage! Disconnect negative (-) battery cable to prevent accidental electrical short during installation.

1. Disconnect negative (-) battery cable from battery.



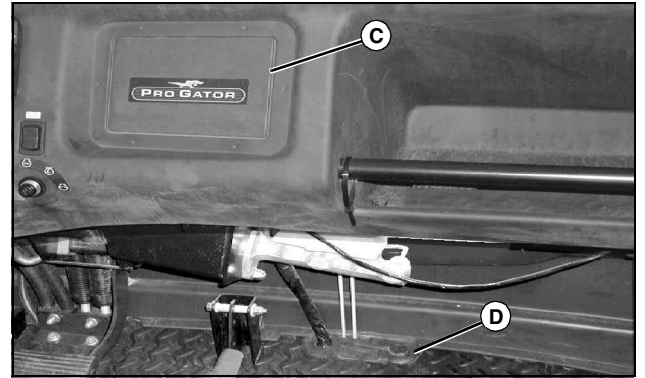
MX2946

2. Remove front grill (A) from machine.

NOTE: Sprayer wiring harness will be mounted under skid plate (B).

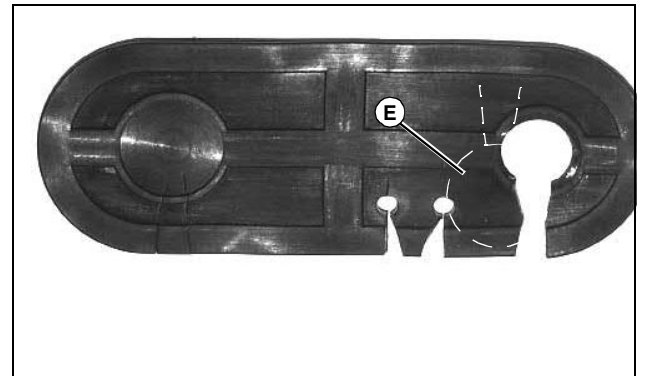
3. Remove attaching hardware and skid plate (B).

NOTE: Removal of front panel and headlight assembly is not required, but may ease installation.



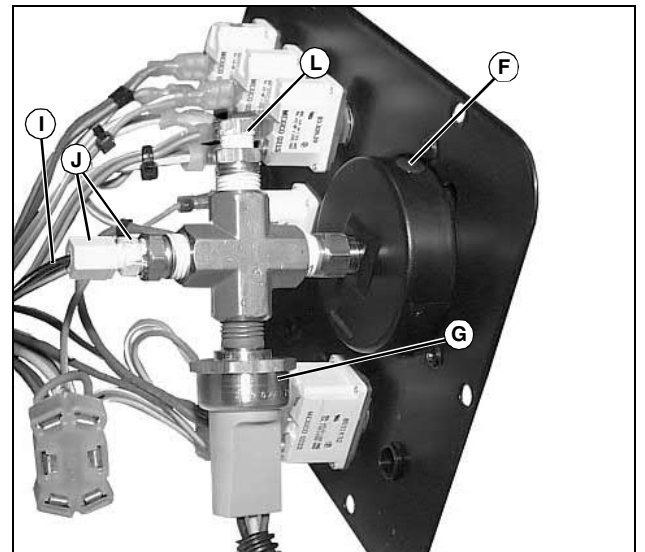
MX17912

4. Locate control panel mounting reference outline in the machine dash (C) next to the instrument panel. Cut through dash, following outline, remove cut-out piece and de-burr edges as necessary.
5. Remove rubber boot (D) from foot well.



MX2948

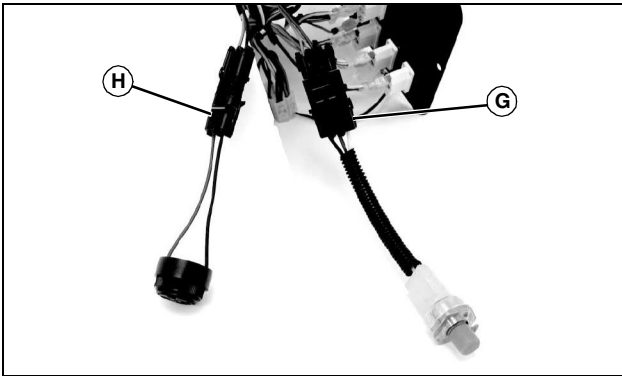
6. Cut out area (E) from rubber boot with a scissors or utility knife.
7. Place control panel and front wiring harness on a clean work surface.



MX30027

8. Locate rubber fill plug (F) on pressure gauge. Use a razor blade and carefully cut off rubber nipple, exposing breather port.

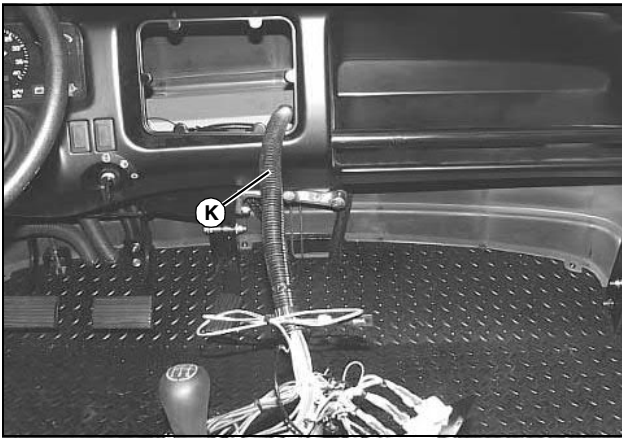
PREPARING VEHICLE



MX17915

9. Make sure electrical connector on the pressure switch (G) is connected.
10. Connect buzzer wiring connector (H) to front harness.
11. Install pressure tube (I), fittings (J) and tighten.

NOTE: For ease of assembly, the rear wiring harness can be removed.



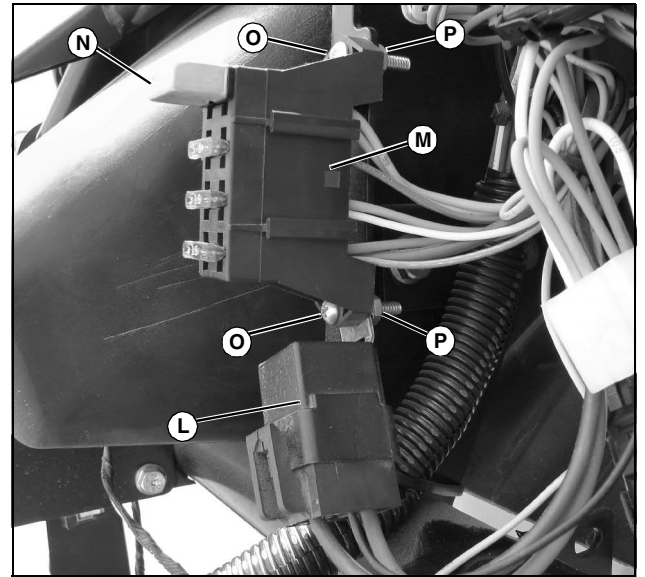
MX2950a

12. Route front wiring harness (K) completely through control panel opening and through foot well cutout where boot was removed.



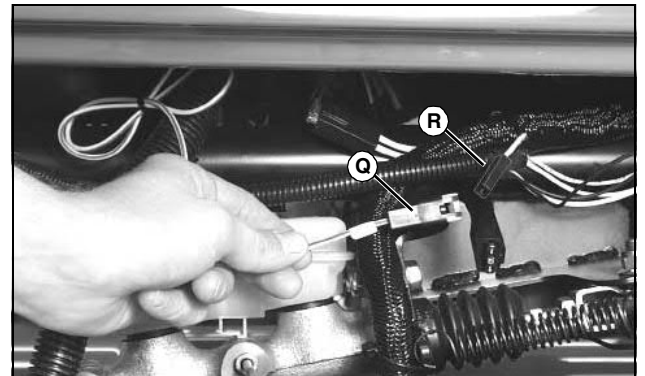
MX19985

13. Set control panel in place over cut-out and use panel as a template to drill 5mm (3/16 in.) diameter mounting holes.
14. Clean drilling residue from control panel area.



MX25590

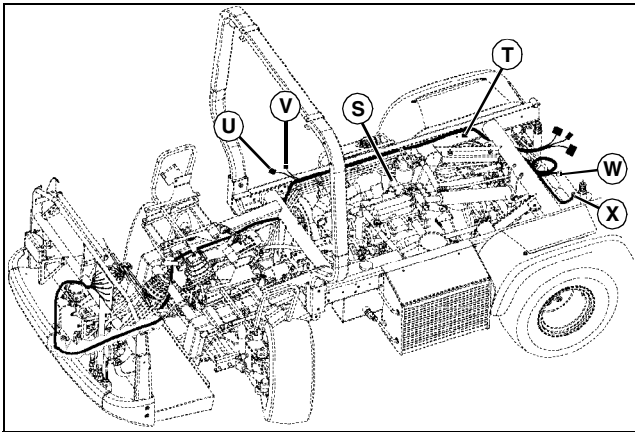
15. Access front wiring harness through grill opening. Position main disconnect relay (L) on vertical support mounting flange then install fuse block (M) so 20 amp circuit breaker (N) is at top.
16. Secure main disconnect relay and fuse block to vertical support mounting flange using two M10 x 25mm (1 in.) hex screws (O) and two M10 locknuts (P). Use electrical tape to secure fuses and circuit breaker to fuse block to prevent accidental loss during machine operation.
17. Temporarily secure control panel to dash with two supplied screws and nuts. Removal will be necessary for a later step, do not tighten.



MX2952

18. Locate auxiliary power leads near brake fluid reservoir, and connect:
 - Yellow/Red lead (Q) from sprayer front wiring harness (female lock connector).
 - Yellow lead (R) from machine main wiring harness (male lock connector).

ASSEMBLY



MX19995

19. Route front wiring harness along same path as machine wiring harness. At point where machine harness splits to engine, continue straight to rear of machine, routing harness between hydraulic oil filter assembly (S) and machine side frame, then under the rear frame crossmember adjacent to the right rear shock absorber. The 40 amp automatic reset circuit breaker (T) will be positioned in the front harness near this location.

IMPORTANT: Avoid damage! Before securing harness, ensure that it is routed to avoid moving parts that could pinch or otherwise damage harness or components.

20. Leave approximately 15 cm (6 in.) of slack in harness at control panel. Working toward rear of machine, remove remaining slack and secure harness in place using tie straps supplied in kit.

21. Locate the PTO switch connection to the machine wiring harness from under the machine. Unplug the PTO switch connector (male plug) from the machine wiring harness (female plug). Plug the PTO switch connector into the female plug (Y) in the sprayer front harness, and the machine harness PTO switch connector to the male plug (V) in the sprayer front harness.

22. Separate black (W) and red (X) battery leads at end of front wiring harness. Temporarily bundle and secure the remaining harness components.

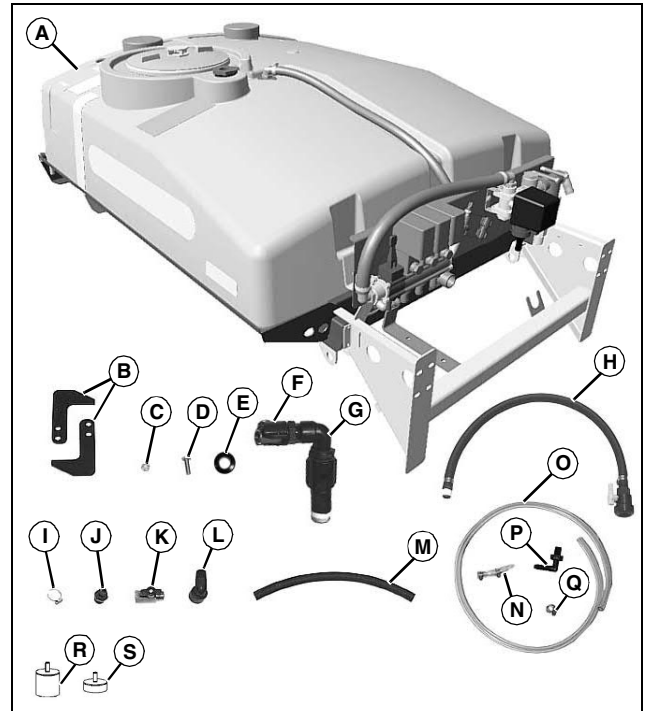
23. Connect red lead from front harness to positive (+) battery cable.

24. Connect black leads from front harness to negative (-) battery cable. Install battery negative (-) cable to battery. Ensure positive and negative battery connections are tightened completely.

25. Install grill and skid plate to machine.

Assembly

Tank Components



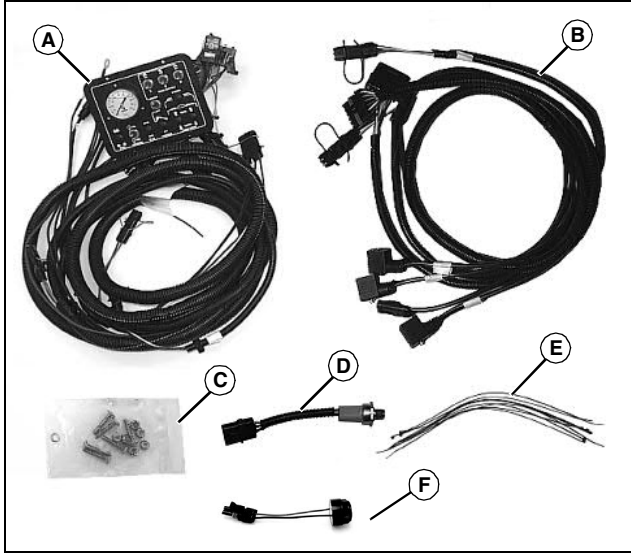
MX19979, MX23110

Qty	Description
1	Tank Assembly, Sprayer (A)
2	Clamp, Frame (B)
6	Nut, Nylock, M10 (C)
6	Capscrew, Hex Head, M10 x 35 (D)
1	Washer, Flat, M26 (E)
1	Cap, Dust (F)
1	Assembly, Filler (G)
1	Hose Assembly, Tank Drain (H)
1	Clamp, Hose, 1/2 in. (I)
1	Fitting, Barbed, 1/2 MPT x 3/8 HB (J)
1	Valve (K)
1	Elbow, 1/2 FTP x 1/2 MPT (L)
1	Hose, 3/8 in. x 12 in. (M)
1	Check Valve, 1/4" (N)
1	Hose, Clear (O)
1	Fitting, Barbed Hose, 1/4 in. (P)
4	Clamp, Hose, 3/8 in. (Q)

ASSEMBLY

Qty	Description
2	Down Stops (55 mm) (R) - For ProGator models 2020A / 2030A
2	Down Stops (17 mm) (S) - For ProGator models 2020 / 2030.

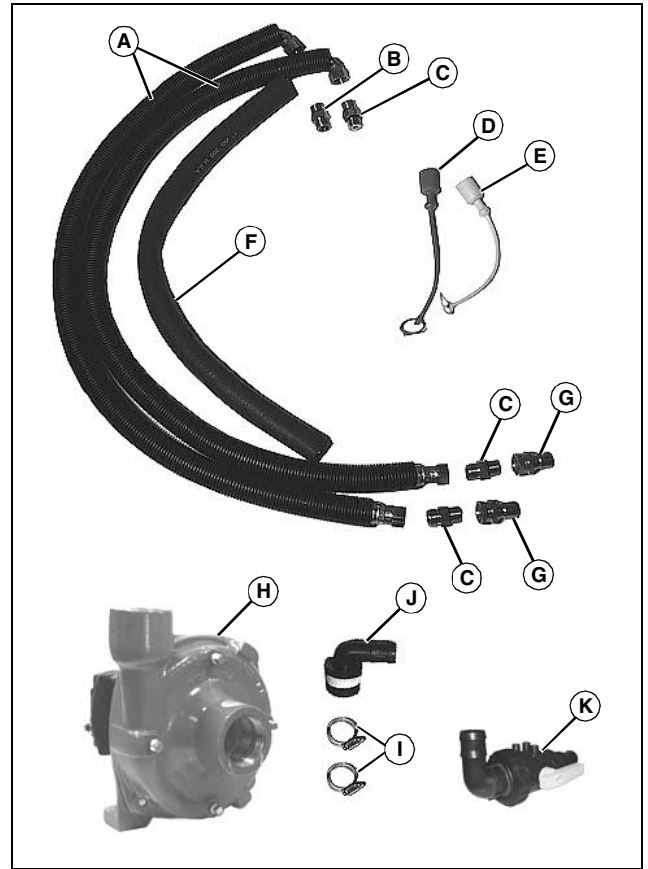
Electrical Components



MX17916, MX19989

Qty	Description
1	Control Panel and Front Wiring Harness (A)
1	Rear Wiring Harness (B)
1	Bag of Hardware, Control Panel Mounting (C) (Includes (6) Screws, Plastic Washers, Nylock Nuts)
1	Low Pressure Warning Switch/Harness (D)
8	Tie Strap, 14 in (E)
1	Buzzer (F)

Sprayer Pump and Hydraulic Components

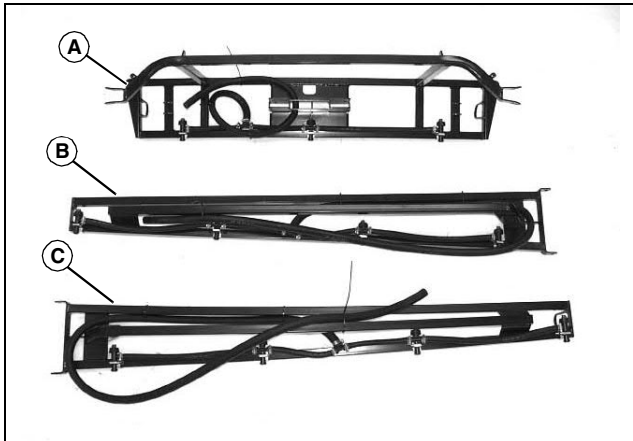


MX19989

Qty	Description
2	Hose Assembly, Hydraulic (A)
1	Fitting, Check Valve (B)
3	Fitting, Adapter (C)
1	Dust Cap, Red (D)
1	Dust Cap, Yellow (E)
1	Hose, 1 in. dia. (F)
2	Quick Coupler, Male (G)
1	Pump Assembly, Sprayer (H)
2	Clamp, Hose (I)
1	Fitting, Elbow (J)
1	Ball Valve, Three-Way (K)

ASSEMBLY

Boom Components

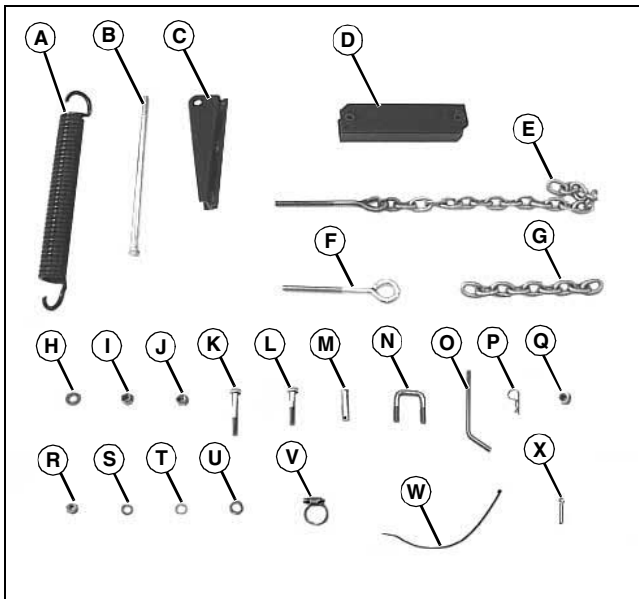


MX2902

Qty	Description
1	Frame, Boom Center (A)
1	Wing, Left Boom (B)
1	Wing, Right Boom (C)

Qty	Description
4	Eye Bolt 1/2 x 6 in. (F)
2	Chain 5/16 x 9 in. (G)
4	Washer, Flat, 1/2 in. (H)
8	Nut, Hex, 1/2 in. (I)
2	Nut, Lock, Reversible, 1/2 in. (J)
4	Capscrew, Hex, M12 x 70 (K)
2	Capscrew, Hex, M12 x 50 (L)
2	Pin, Drilled, 1/2 x 2 in. (M)
4	U-Bolt, M10 (N)
2	Pin, Drilled, 3/8 in. (O)
2	Pin, Spring Locking (P)
6	Nut, Nylock, M12 (Q)
8	Nut, Hex, M10 (R)
8	Washer, Lock, M10 (S)
8	Washer, Flat, M10 (T)
8	Washer, Flat, M12 (U)
3	Clamp, Hose, 3/4 in. (V)
2	Tie Strap, 7 in. (W)
2	Cotter Pin, 1/8 x 1 in. (X)

Boom Hardware



MX19990

Qty	Description
2	Spring, Boom (A)
2	Capscrew, Hex Head, 1/2 x 11-1/2 in. (B)
2	Hinge, Breakaway (C)
2	Pivot Hinge, Center (D)
2	Eye Bolt/Chain Assembly 5/16 x 19 in. (E)

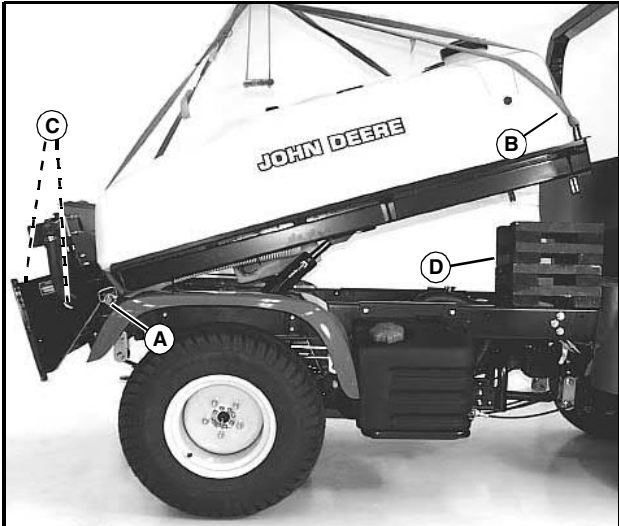
ASSEMBLY

Sprayer Assembly and Installation

The Assembly Section is for initial assembly and installation of the sprayer to the ProGator. Installing and Removing sections are located later in this manual.

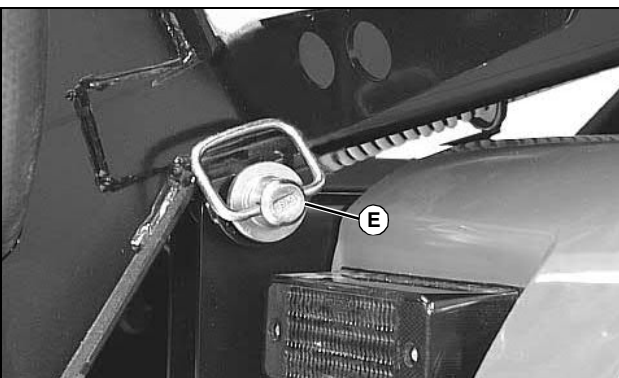
Install Sprayer Tank

CAUTION: Avoid injury! Machine component or attachment is heavy. Use a safe lifting device with correct load capacity rating to lift, install or remove component or attachment.



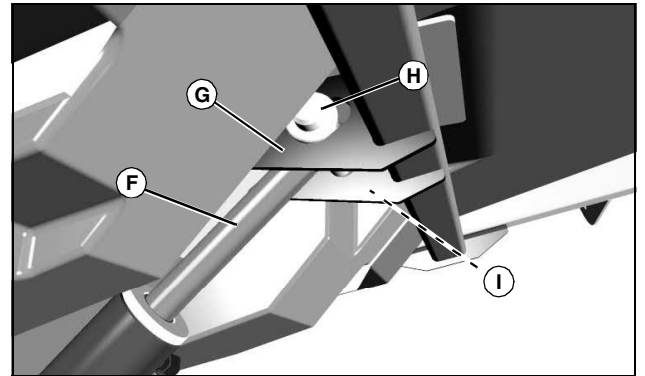
MX2956a

1. Install lift straps or chains to sprayer so unit is balanced upon hoisting. Do not directly connect to rear mounting holes (A).
2. Attach lift strap to lift loops (B) at front of sprayer frame.
3. Secure straps around rear of frame (C).
4. Install safety stand (D) between machine frame and sprayer frame.
5. Lift the tank/frame into position over machine frame as shown.



MX19928

6. Align mounting holes at rear of machine and install pivot pins (E) as shown. Secure pivot pins with quick-lock pins.



MX23113

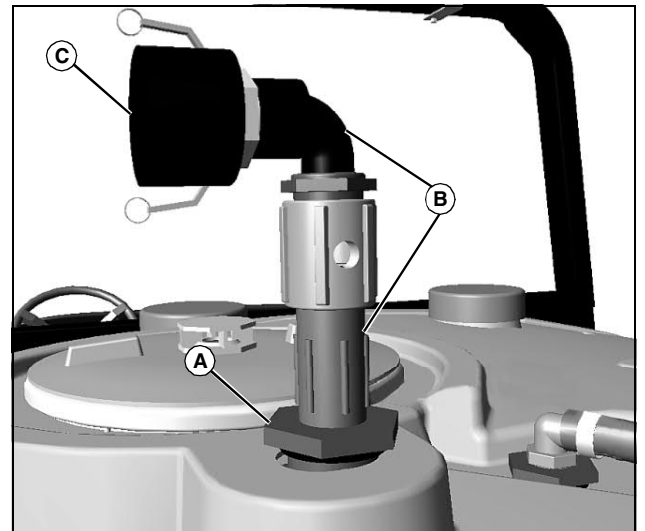
7. Align hole in cylinder rod (F) with hole in frame (G). Install connecting pin (H), and secure with M26 flat washer (not shown) and spring locking pin (I).

8. Remove safety stand from between tank and machine frame.

9. Disconnect hoist from sprayer and completely lower tank using the lift cylinder lever.

Install Sprayer Tank Components

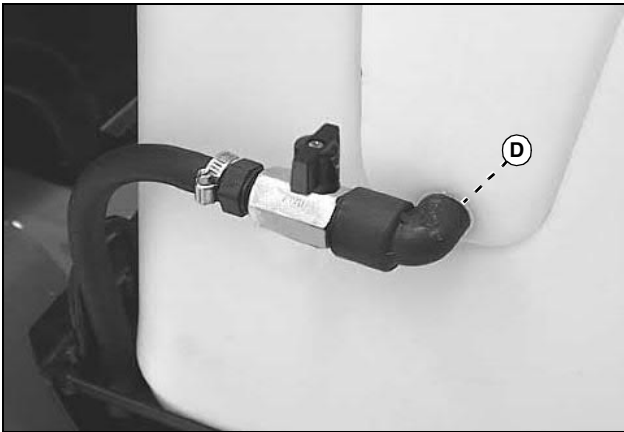
NOTE: For best results, apply a chemical-resistant pipe sealant to all threaded fittings.



MX19970

1. Remove and discard plastic protective cap from fill port (A) on top side of tank.
2. Thread filler tube assembly (B) into fill port. Tighten completely, positioning quick-connect opening facing left side of tank as shown.
3. Install dust cap (C).

ASSEMBLY



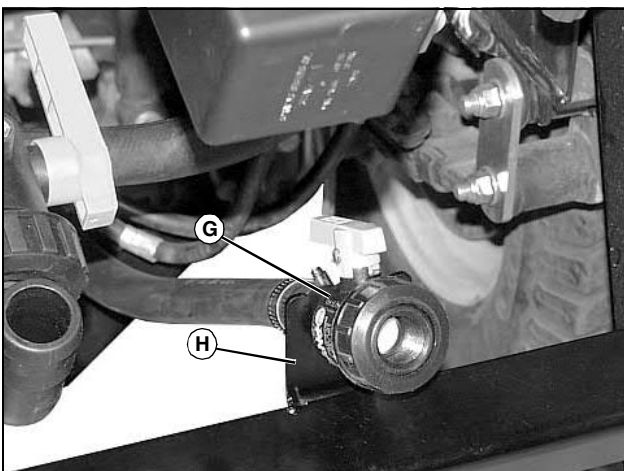
MX19971

4. Remove and discard plastic protective cap from wash tank port (D) at left side of tank.
5. Place end of hose in hole in sprayer frame as shown.



MX19997

6. Raise and properly support tank for easiest access to tank drain (E).
7. Locate drain tube assembly and thread male hose end fitting (F) into tank drain until tight.



MX19998

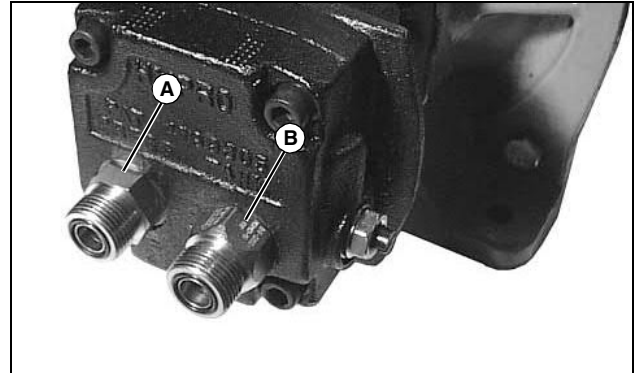
8. Route drain hose assembly under machine rear frame crossmember,

then up over hitch bracket and set drain valve (G) in cradle (H) as shown. This is the normal storage position.

Install Sprayer Pump and Hoses

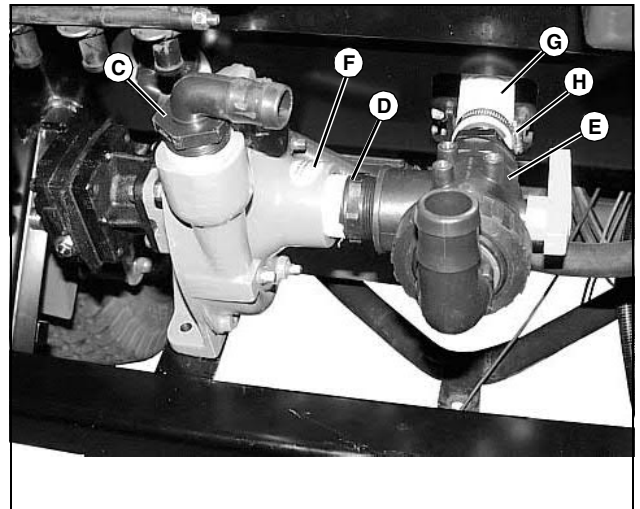
The sprayer pump is available in either cast or stainless steel versions and is packaged separately from the other sprayer components.

1. Locate box containing pump and remove contents to a clean work surface.



MX19980

2. Remove shipping plugs in hydraulic pump ports if present.
3. Install supplied hydraulic adapter fitting (A) into pump pressure port and tighten.
4. Install supplied hydraulic check valve (B) into pump return (tank) port and tighten. Arrow on check valve should point toward hose.

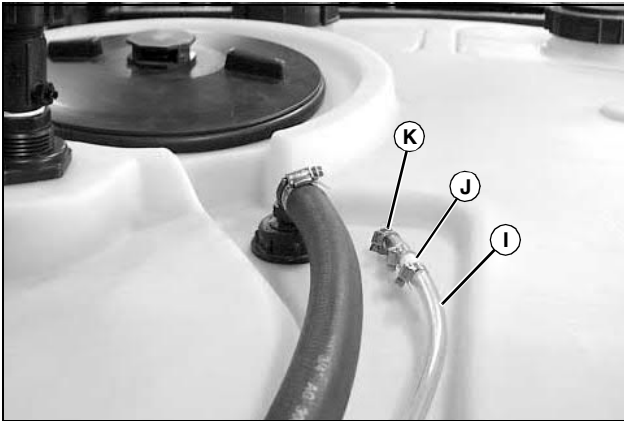


MX19982

5. Apply thread sealant tape to elbow fitting (C) and install into pump body. Tighten to orientation shown.
6. Apply thread sealant tape to fitting (D) on three-way ball valve (E) and install into pump inlet (F). Tighten ball valve to orientation shown with valve horizontal and inlet fitting toward tank supply hose (G).
7. Apply lubricant to barbed fitting on three-way ball valve or inside of supply hose to aid assembly and loosely install hose clamp (H) over supply hose.
8. Slide pump/ball valve assembly into position, inserting barbed fitting on three-way ball valve fully into tank supply hose.
9. Position pump over mounting holes on sprayer frame and secure using M10 x 35mm (1-3/8 in.) bolts and nylock nuts.

ASSEMBLY

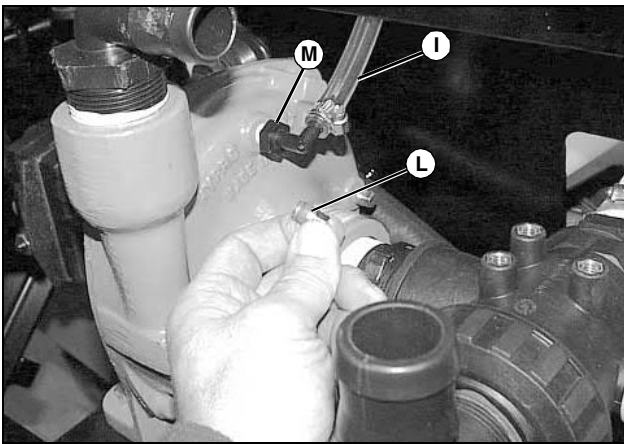
NOTE: Arrow on check valve (J) must point toward front of machine.



MX30003

10. Place a 3/8" hose clamp loosely over one end of the clear hose (I) and install hose onto check valve (J) connected to elbow in tank (K) and tighten clamp. This hose functions as a pump-to-tank priming line, facilitating faster pump priming.

11. Route clear hose down sprayer tank, following hose to inline strainer canister, then over to pump.

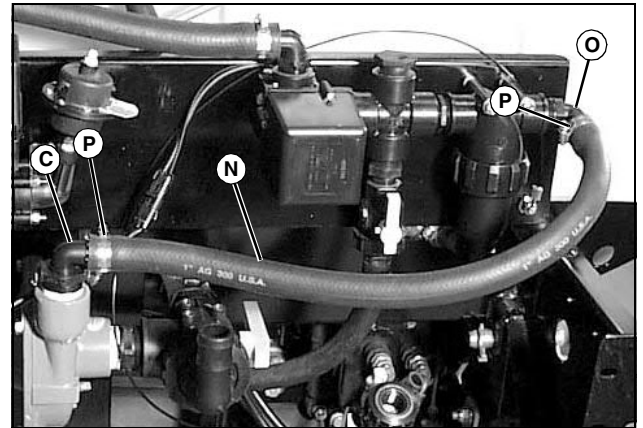


MX30002

12. Remove uppermost plug (L) from pump housing.

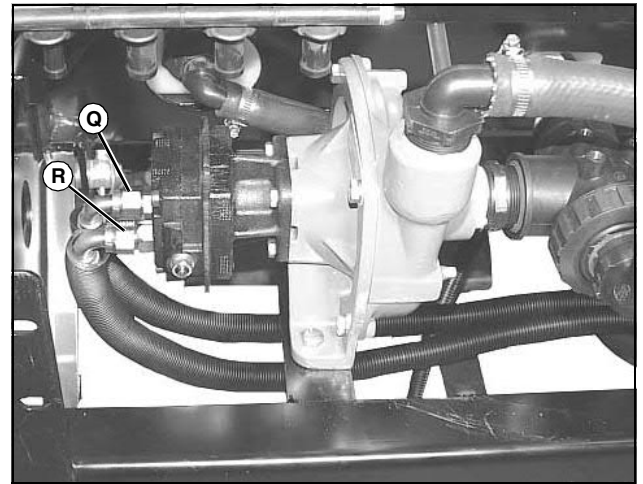
13. Apply thread sealant tape to 1/4 in. barbed elbow fitting (M) and install into pump in place of plug (L), as shown.

14. Place 3/8 in. hose clamp loosely over remaining end of clear hose (I) and install hose onto barbed elbow fitting. Tighten hose clamp.



MX30005

15. Install 1 in. hose (N) between pump outlet elbow fitting (C) and manifold elbow (O). Secure with hose clamps (P) and tighten.



MX30007

16. Locate supplied hydraulic hose assemblies and place dust covers over quick-connect fittings.

17. Install hose assembly with yellow dust cover (Q) onto adapter at port marked PRESSURE on hydraulic pump. Route hose above hitch assembly and toward coupler bracket, as shown.

18. Install hose assembly with red dust cover (R) onto adapter at port marked TANK on hydraulic pump. Route hose toward coupler bracket with pressure hose, as shown.



Suggest:

If the above button click is invalid.

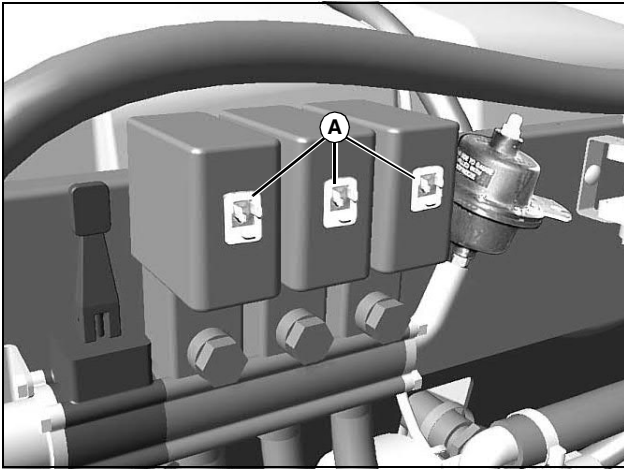
Please download this document first, and then click the above link to download the complete manual.

Thank you so much for reading

ASSEMBLY

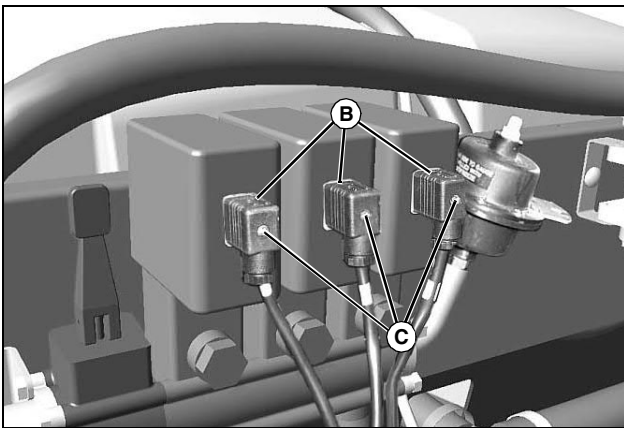
Install and Connect Rear Wiring Harness

1. Locate rear harness bundle and remove small bag of parts attached to harness. Remove solenoid plug seals and screws.



MX19924

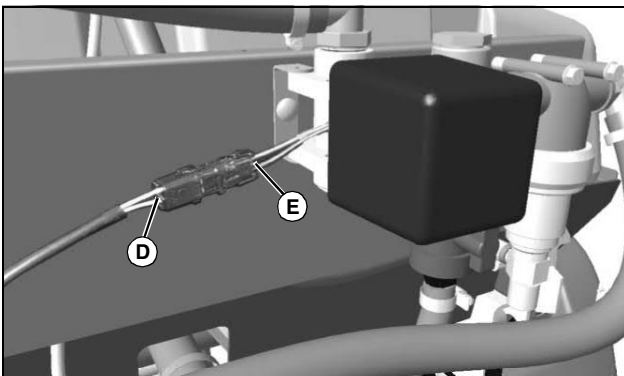
2. Install solenoid plug seals (A) over solenoid valve prongs as shown.



MX19925

3. Connect solenoid plugs (B) to solenoid valves in correct order from left to right. Solenoid leads are tagged and numbered 1, 2, 3.

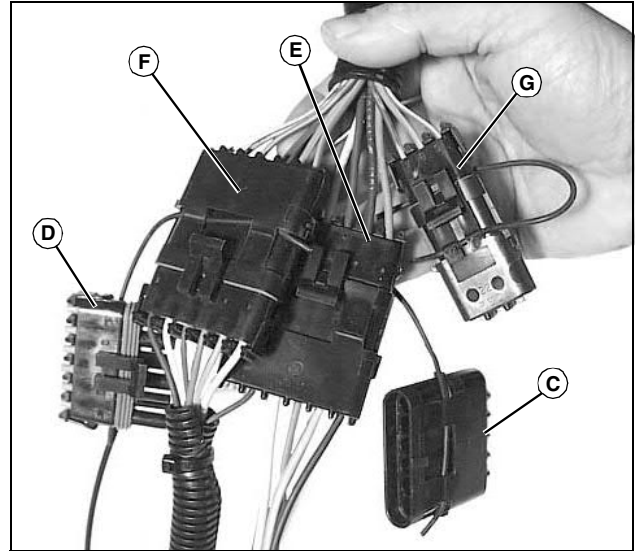
4. Secure each plug to valve using screws (C).



MX19926

5. Connect purple and green rear harness leads (D) to red and black leads (E) from pressure regulating valve.

NOTE: The three-wire connector (G) on the front harness is for use with optional autorate controller. The two-wire connectors (yellow/pink and orange/purple) are for optional electric boom actuators.



MX30010

6. Remove the storage caps (C)(D) from the large male (E) and female (F) plugs at the rear of the front harness.

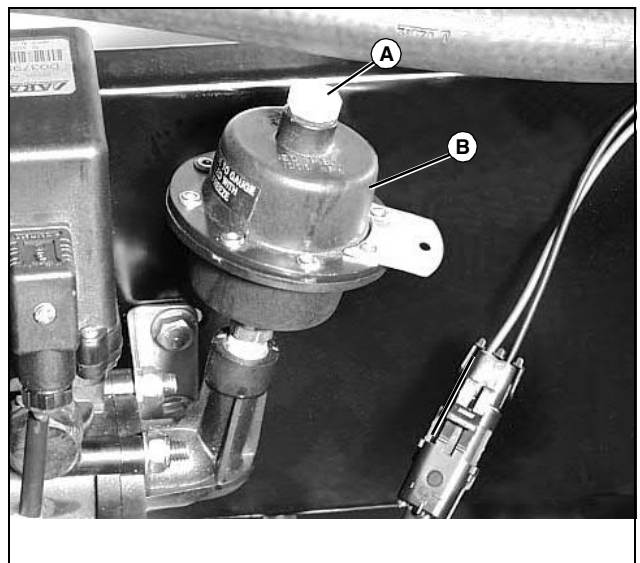
7. Connect the large male and female plugs from the rear harness to the corresponding large plugs from the front harness.

8. If equipped with optional sprayer equipment, make all necessary electrical and hose connections at this time. See installation instructions provided with your optional equipment.

9. If not equipped with optional sprayer equipment, route the excess and unused sprayer harness leads behind back panel below solenoid manifold and secure with tie straps.

Fill and Connect Pressure Tube

1. Route pressure tube, which is part of main wire harness, to isolator.



MX30034

2. Remove storage plug (A) from isolator (B) and place in plastic storage bag for future use.

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