

15-Gallon Sprayer (Serial No. 100301-)



JOHN DEERE

OPERATORS MANUAL

15-Gallon Sprayer
(Serial No. 100301-)

OMM94359 Issue E1 English

John Deere Horicon Works
OMM94359 Issue E1

(This manual replaces OMM94359 Issue K0.)

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ENGLISH



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Introduction

THANK YOU for purchasing a John Deere product.

READ THIS MANUAL carefully to learn how to operate and service your sprayer correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your sprayer and should remain with the sprayer when you sell it.

MEASUREMENTS in this manual are U.S. customary units and their metric equivalents.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE IDENTIFICATION NUMBERS in the Specifications section. Accurately record all the numbers to help in tracing the sprayer should it be stolen. Your dealer also needs these numbers when you order parts.

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 warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty.



Tractor With Mounting Kit Shown

M74155
-UN-12NOV90

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



DX,ALERT -19-04JUN90

T81389 -UN-07DEC88

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



DX,SIGNAL -19-04JUN90

TS187 -19-30SEP88

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX,READ -19-04JUN90

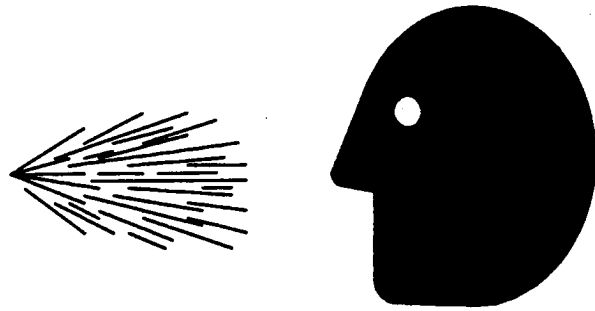
TS201 -UN-23AUG88



KEEP PEOPLE AWAY FROM SPRAYING AREA

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.



MX,SACJ,A -19-09APR91

M41998 -UN-01SEP88

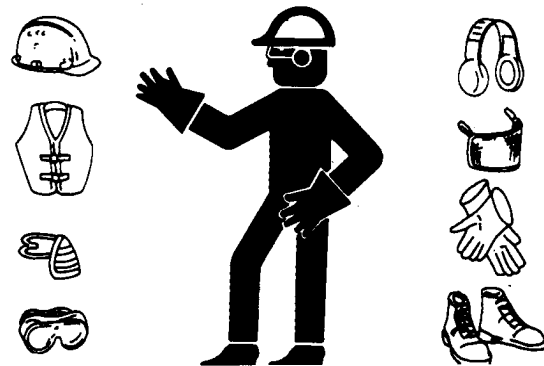
WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



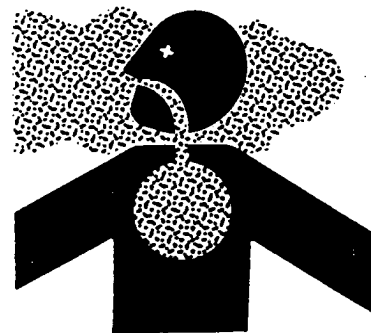
DX,WEAR -19-10SEP90

TS206 -UN-23AUG88

USE CHEMICALS SAFELY

Chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soil or other properties.

Follow directions for each specific chemical.



MX,SACJ,B -19-09APR91

M61022 -UN-01SEP88



READ SAFETY SIGNS



M61040 -19-04OCT89



M74157 -UN-30OCT90

MX.SACJ.D -19-09APR91

Preparing Tractor

TRACTOR REQUIREMENTS

Your 15-Gallon Sprayer mounts on the following tractors:

- 240, 260, 265 and 285 Tractors
- 316, 318, 322 and 332 Tractors
- 420 and 430 Tractors
- Older 200, 300 and 400 Series Tractors
- 110, 112, 120 and 140 Lawn and Garden Tractors

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



CAUTION: Minimum of one 42 pound front end weight is required to obtain adequate stability.

Tractor weights improve stability. Add front weights for better front-end stability and steering.

Tractor requires the following:

- 12-Volt Battery and Alternator
- Drawbar
- Trail Kit (OR)
- Mounting Kit
- Wiring Harness Extension (330, 322 and 332 Tractors). Order from your John Deere dealer.

NOTE: Weight is not required when sprayer is mounted on Trail Kit.

MX,PTCJ,A -19-09APR91

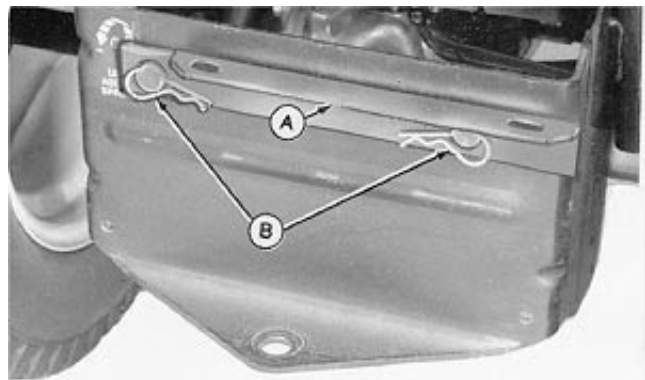
INSTALL TRACTOR ANCHOR—REQUIRED WHEN ATTACHING MOUNTING KIT

NOTE: Anchor IS NOT used on tractors with rear rockshaft.

MX,PTCJ,B -19-09APR91

MODEL 240, 260, 265 OR 285 TRACTORS

Fasten anchor (A) to tractor drawbar with drilled pins and two 2-7/8-in. spring locking pins (B).



265 Tractor Shown

MX,PTCJ,B1 -19-09APR91

MODEL 110, 112 LAWN AND GARDEN TRACTORS AND 200, 208, 210, 212, 214 AND 216 LAWN AND GARDEN TRACTORS

1. Clamp anchor flush with top of frame and 1.3-in. (33 mm) in front left side of frame.



CAUTION: Use caution when drilling holes through frame of tractor. Some tractor models have fuel tank located directly behind tractor frame.

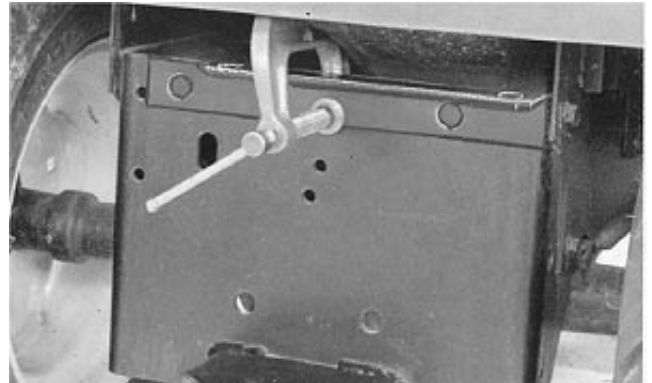
2. Mark and drill two 3/8-in. holes.

- Locate each hole down 1-in. (25 mm) from top of frame.

Left Hole Center—2.3-in. (58 mm) from left side of frame.

Right Hole Center—2.9-in. (74 mm) from right side of frame.

3. Fasten each end of anchor with a 3/8 x 1-in. bolt, flat washer, lock washer and nut. These parts are not furnished.



216 Tractor Shown

M62965 -UN-28SEP89

MX,PTCJ,C -19-09APR91

MODEL 120, 140 TRACTORS OR 300 SERIES TRACTORS

1. Clamp anchor flush with top of frame so center of left hole is approximately 2-in. (50 mm) from left side of frame.



CAUTION: Use caution when drilling holes through frame of tractor. Some tractor models have fuel tank located behind tractor frame.

2. Mark and drill two 3/8-in. holes.

- Locate each hole down 1-in. (25 mm) from top of frame.

Left Hole Center—2-in. (50 mm) from left side of frame.

Right Hole Center—1-1/4-in. (30 mm) from right side of frame.

3. Fasten each end of anchor with a 3/8 x 1-in. bolt, flat washer, lock washer, and nut. This hardware is not furnished.



317 Tractor Shown

M62966 -UN-28SEP89

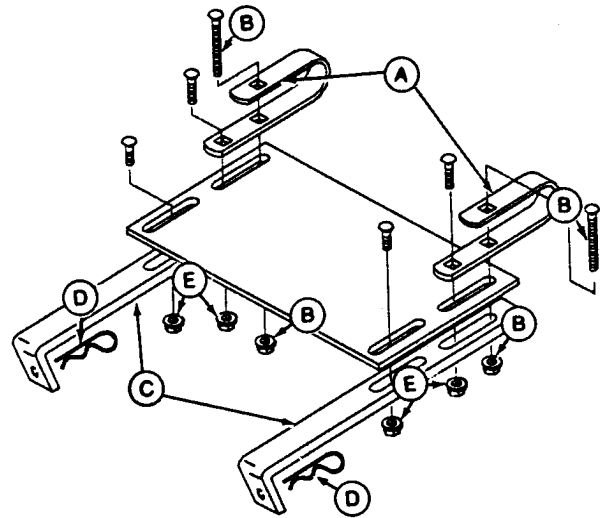
MX,PTCJ,D -19-09APR91

Installing Sprayer

INSTALL STABILIZER ON TRACTOR ANCHOR—TRACTORS WITHOUT REAR ROCKSHAFT

NOTE: You need to bend hook straps (A) "IN" slightly for carriage bolts to fit through all three brackets and have enough thread left to attach lock nuts.

1. Slide hook straps (A) through slots in anchor on back of sprayer box. Fasten with two 5/16 x 1-1/2-in. carriage bolts and lock nuts (B). DO NOT tighten nuts at this time.
2. Place J-straps (C) through slots in tractor anchor and secure with two 1-5/8-in. spring locking pins (D).
3. Tighten lock nuts (B).
4. Tighten lock nuts (E) previously assembled.

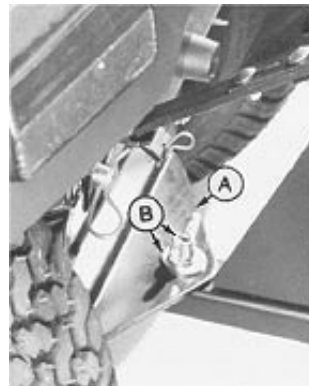


A—Hook Straps
B—Carriage Bolts and Lock Nuts
C—J-Straps
D—Spring Locking Pins
E—Lock Nuts

M74164 -UN-12NOV90

MX,ISCJ,A -19-09APR91

5. Install drawbar through hitch (A) on tractor.
6. Fasten drawbar with one flat washer, lock washer and wing nut (B).
7. Tighten wing nut.
8. Adjust stabilizer. (See LEVELING TANK in Operating Sprayer section.)



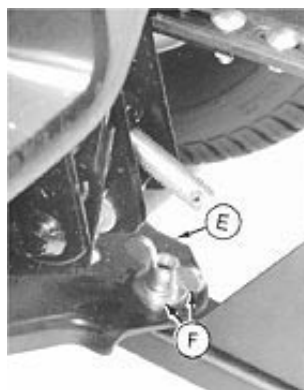
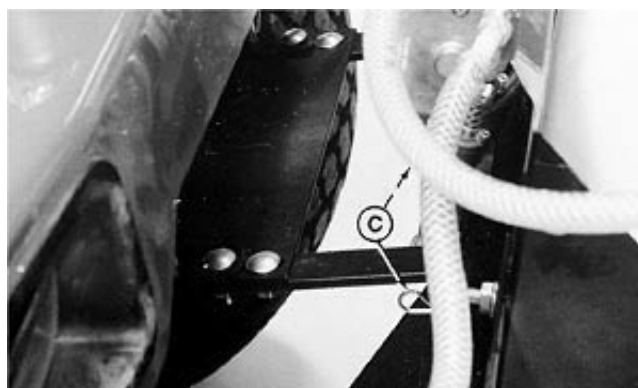
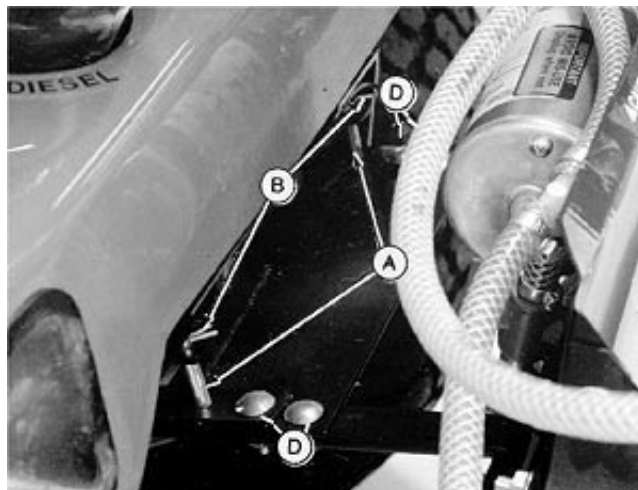
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MX,ISCJ,AZ -19-09APR91

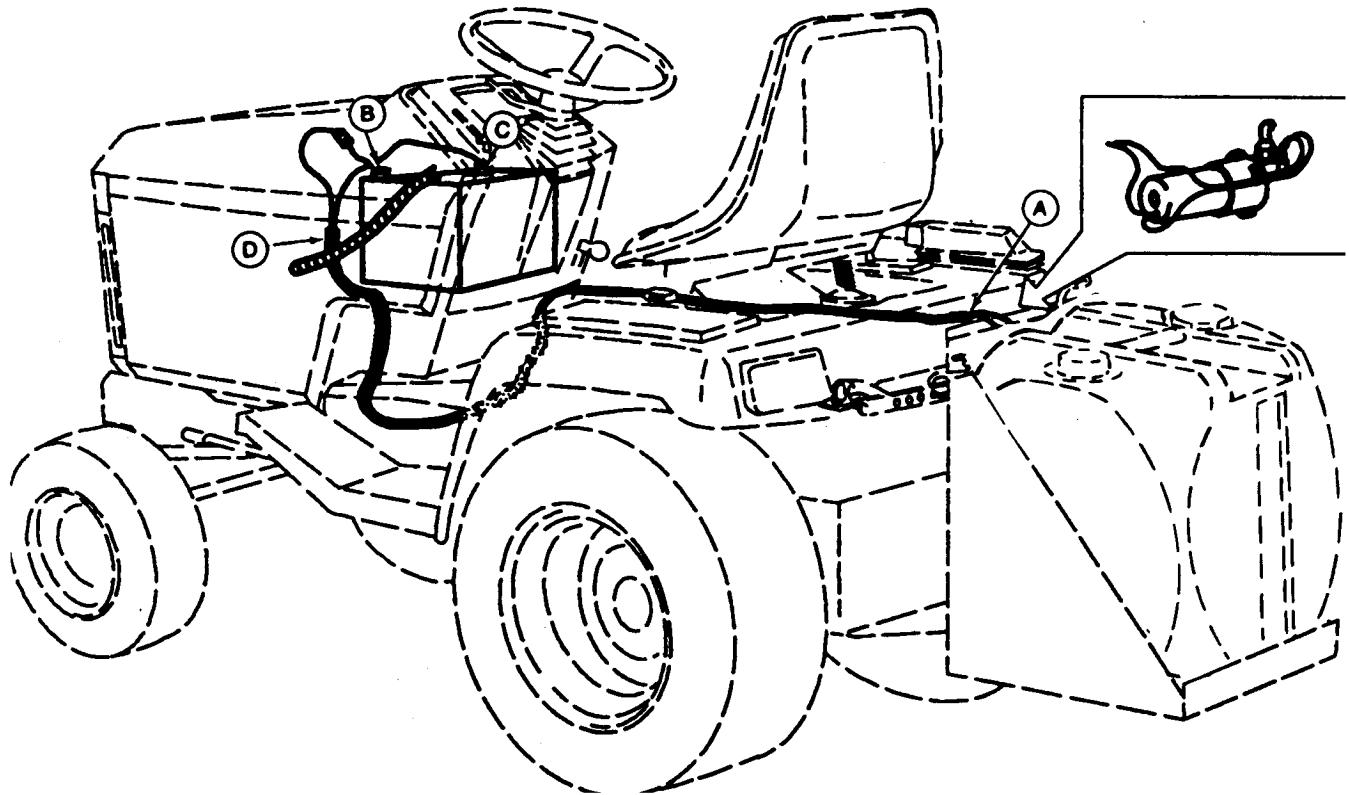
INSTALL STABILIZER ON TRACTOR ANCHOR—TRACTORS WITH REAR ROCKSHAFT

1. Slide hook straps over rockshaft and fasten with two 2-in. drilled pins (A) and two 1-5/8-in. spring locking pins (B).
2. Place J-straps through slots in sprayer anchor and secure with two 1-5/8-in. spring locking pins (C).
3. Install drawbar through hitch (E) on tractor.
4. Fasten drawbar with one flat washer, lock washer and wing nut (F).
5. Tighten wing nut.
6. Adjust stabilizer. (See LEVELING TANK in Operating Sprayer section.)
7. Tighten four stabilizer nuts (D).

A—Drilled Pins
B—Spring Locking Pins
C—Spring Locking Pins
D—Stabilizer Nuts
E—Hitch
F—Washers and Wing Nut



ROUTE WIRING HARNESS—UNITS EQUIPPED WITH MID-BATTERY



M62988
-UN-02OCT89

A—Pump Leads

B—(+) Terminal

C—(−) Terminal

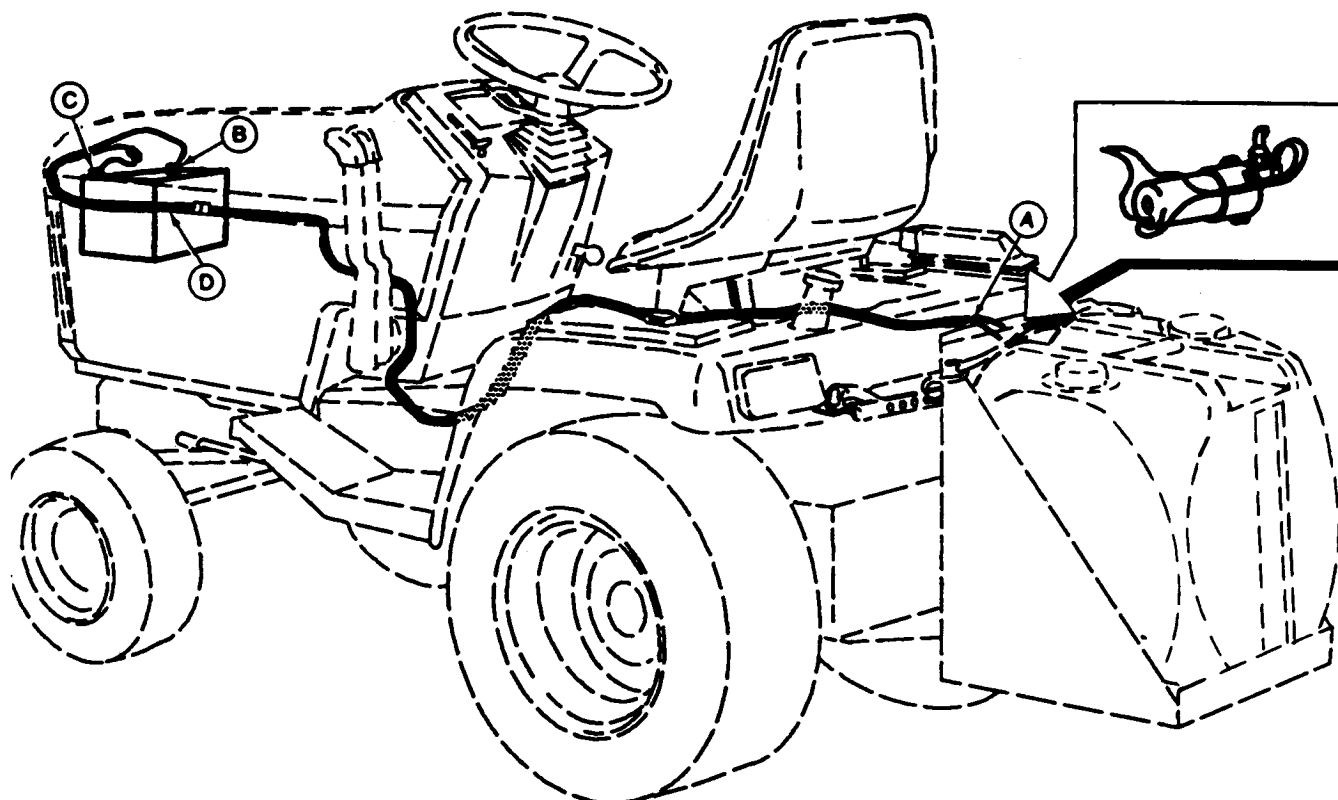
D—Battery Leads

1. Connect short end from switch to pump leads (A).
2. Route harness as shown. On some units route wire on right side of fuel tank filler.
3. Fasten red lead to positive (+) terminal (B).
4. Fasten black lead to negative (−) terminal (C).
5. Connect long end to battery leads (D).

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

MX,ISCJ,E -19-09APR91

ROUTE WIRING HARNESS—UNITS EQUIPPED WITH FRONT BATTERY



M62987
-UN-02OCT89

A—Pump Leads

B—(+) Terminal

C—(−) Terminal

D—Wire Extension

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

1. Connect short end from switch to pump leads (A).
2. Route wire on right side of fuel tank filler.
3. Fasten red lead to positive (+) terminal (B).

4. Fasten black lead to negative (−) terminal (C).

5. Connect extension (D), not furnished; to long end from switch. Then route extension under forward hood rod and connect it to battery leads.

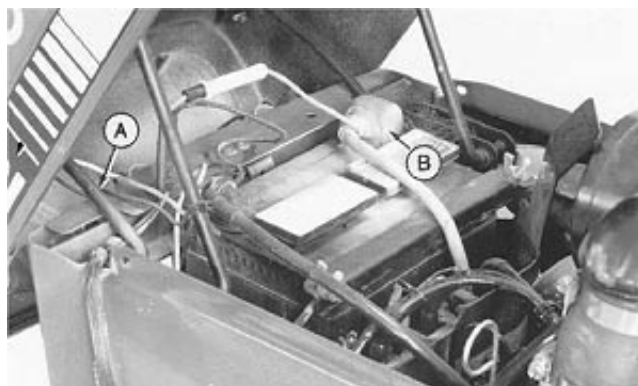
NOTE: MAKE SURE hood does not close on wires or connectors.

MX,ISCJ,F -19-09APR91

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.



M61160
-UN-01SEP88

MX,ISCJ,G -19-09APR91

Removing Sprayer

REMOVING SPRAYER

1. Empty tank or remove tank.
2. Disconnect wire harness from pump leads.
3. Disconnect Stabilizer—TRACTORS WITHOUT REAR ROCKSHAFT:
 - Remove spring locking pins from J-straps.
 - Pull J-straps out of slots.
 - Remove wing nut and two washers from drawbar.
4. Disconnect Stabilizer—TRACTORS WITH REAR ROCKSHAFT:
 - Remove spring locking pins from J-straps on sprayer end of stabilizer.
 - Remove wing nut and two washers from drawbar.
 - Remove spring locking pins and drilled pins from other end of stabilizer.
 - Remove stabilizer from tractor.
 - Install stabilizer on anchor on sprayer frame with spring locking pins removed above.
5. Disconnect wire harness from battery leads.

MX,RSCJ,A -19-09APR91

Operating Sprayer

SAFETY TIPS

Do not let anyone operate sprayer without proper instruction.

Keep children away from spraying area.

Do not spray during extreme heat or windy weather.

Do not use flammable chemicals.

Keep riders off tractor and sprayer.

Select the right chemical for the job. Handle and apply chemicals with care. Follow manufacturer's instructions.

Do not store sprayer with chemicals in tank.

Do not put nozzle tip or other parts to your lips to blow out dirt.

Keep spare filters available for replacement.

Before you service, adjust, clean or inspect sprayer:

- STOP engine.
- Turn sprayer switch OFF.
- Disconnect pump connection.

MX,OPCJ,A1 -19-09APR91

SPRAYING TIPS



CAUTION: Help avoid chemical injury:

- **Wear protective clothes, gloves and goggles.**
- **DO NOT use flammable chemicals.**
- **Follow chemical manufacturer's directions.**

Adjust sprayer tip height so spray covers width of mower cut.

Do not let sprayer run in one spot.

Do not overspray when you use weedkillers.

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.

Start tractor where you use sprayer to avoid running down battery.

Stop sprayer when tank is empty.

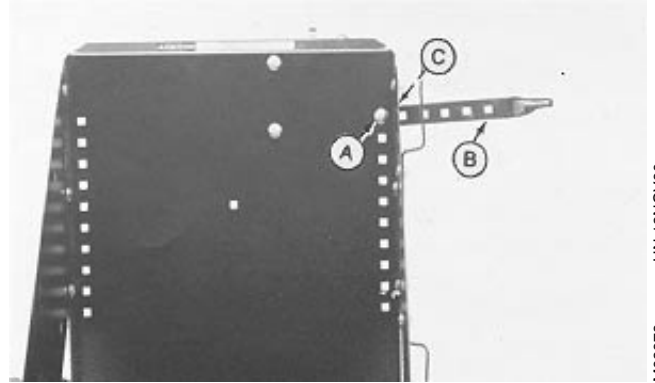
MX,OPCJ,A -19-09APR91

ADJUSTING TIP HEIGHT AND WIDTH

1. Remove tip support (B) by removing bolt (A) and lock nut (C) to adjust tip height and width.
2. Make adjustment by moving bracket either right or left to desired hole.
3. Insert bolt and lock nut.
4. Tighten nut.
5. Repeat above steps for adjustment on other side.

NOTE: Minor adjustments can be made by pulling tip support (B) UP or pushing tip support (B) DOWN as needed.

6. Run sprayer on dry pavement to check spray width and overlap.
7. Spray should meet in center but not overlap.



M62978 -UN-12NOV90

MOWER CUT IN. (mm)	TIP HEIGHT IN. (mm)	TIP WIDTH IN. (mm)	TRAVEL SPEED MPH (KPH)	TRAVEL DISTANCE FT/MIN (M/MIN)
38 (0.95)	15 (375)	18 (450)	3.8 (5.3)	337 (100)
46 (1.15)	17 (425)	22 (550)	3.2 (4.5)	278 (84)
50 (1.25)	20 (500)	25 (625)	2.9 (4.1)	256 (81)
60 (1.5)	24 (600)	30 (750)	2.4 (3.4)	213 (68)

MX,OPCJ,B -19-09APR91

MIXING FERTILIZER



CAUTION: Help avoid chemical injury:

- Wear protective clothes, gloves and goggles.
- **DO NOT** use flammable chemicals.
- Follow chemical manufacturer's directions.

1. John Deere TLC Liquid Lawn Fertilizer is recommended.
2. When you use other fertilizers or spray material, follow directions on container.
3. Add fertilizer to FERTILIZER FILL LEVEL (A).
4. Fill remainder of tank with water.

NOTE: Four gallon (15 L) fertilizer and 11 gallon (42 L) water cover 16,000 square feet (1,488 m²).



M62981 -UN-28SEP89

MX,OPCJ,C -19-09APR91

STARTING AND STOPPING SPRAYER



CAUTION: Before you leave sprayer, disconnect pump connection.

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



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

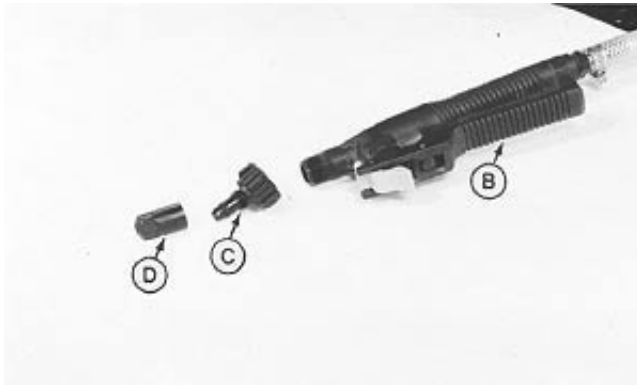
2. Push switch to ON position to start sprayer.



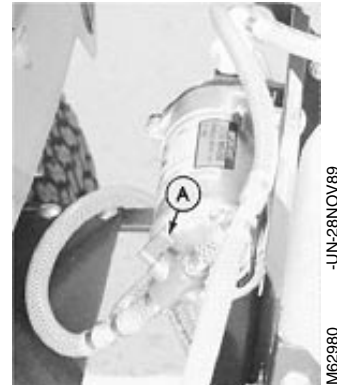
M61152 -UN-30OCT90

MX,OPCJ,D -19-09APR91

USING HANDGUN



M62963 -UN-12NOV90



M62980 -UN-28NOV89

Turn lever (A) 1/4 turn to shut off spray to nozzles.

Squeeze handle (B) to spray.

Remove tip (C) and cap (D) for cleaning.

A—Lever
B—Handle
C—Tip
D—Cap

MX,OPCJ,E -19-09APR91

ADJUSTING PUMP

1. Park tractor where spray will do no damage.

2. STOP engine.

CAUTION: Start tractor when you use sprayer to avoid running down battery.

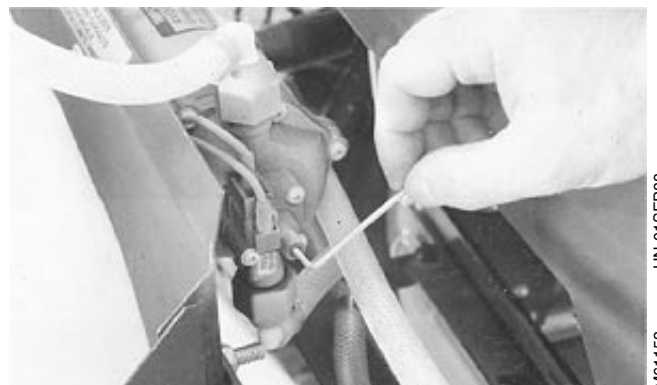
3. Turn switch ON.

IMPORTANT: Stop turning wrench as soon as pump runs smoothly, or you may damage pump.

4. Turn allen wrench clockwise until pump runs smoothly.



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M61153 -UN-01SEP88

MX,OPCJ,F -19-09APR91

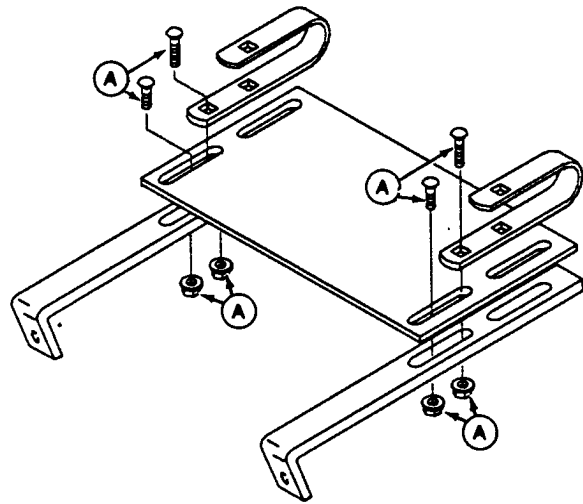
LEVELING TANK—TRACTORS WITH REAR ROCKSHAFT

IMPORTANT: Stabilizer must be adjusted to support sprayer box.

- Bottom of frame should be parallel with ground.

Adjust stabilizer to level tank:

- Loosen bolts and lock nuts (A).
- Slide to desired position in slots on stabilizer bracket.
- Tighten lock nuts.



MX,OPCJ,G

-19-09APR91

M74167 -UN-12NOV90

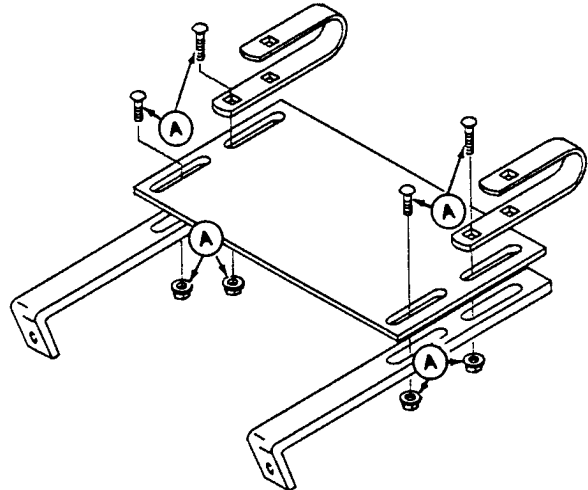
LEVELING TANK—TRACTORS WITHOUT REAR ROCKSHAFT

IMPORTANT: Stabilizer must be adjusted to support sprayer box.

- Bottom of frame should be parallel with ground.

Adjust stabilizer to level tank:

- Loosen bolts and lock nuts (A).
- Slide to desired position in slots on stabilizer bracket.
- Tighten lock nuts.



MX,OPCJ,G1

-19-09APR91

M74173 -UN-12NOV90

Lubrication

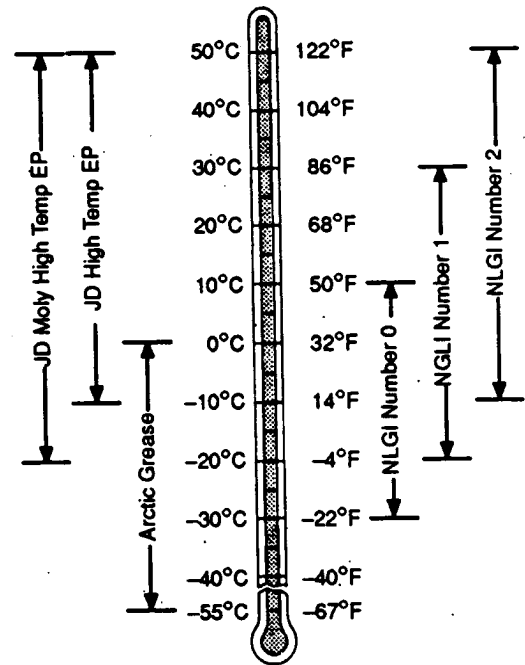
EXTREME PRESSURE OR MULTIPURPOSE GREASE

Use grease based on the expected air temperature range during the service interval.

John Deere Moly High Temperature EP Grease and John Deere High Temperature EP Grease are recommended.

Other greases that may be used are:

- SAE Multipurpose EP Grease with 3 to 5 percent molybdenum disulfide.
- SAE Multipurpose EP Grease.
- Greases meeting Military Specification MIL-G-10924C may be used as arctic grease.



DX,GREAI

-19-15MAR91

TS248
-19-28NOV90

Service

JOHN DEERE PARTS—YOUR BEST CHOICE

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

A PARTS CATALOG is available for your machine. To order a catalog, use the Service Literature page, located near the end of this manual.

WHEN YOU ORDER PARTS your John Deere dealer needs machine identification numbers. These are the numbers you have recorded in the Specifications section.

MX,PARTS,3 -19-09APR91

CLEAN SPRAY NOZZLE

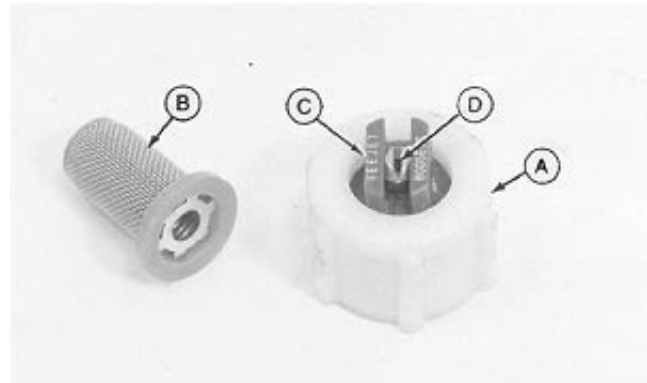
Remove spray nozzle (A) from sprayer.

Disassemble filter (B) and spray tip (C).

NOTE: DO NOT use a wire to clean opening (D) in spray tip.

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

- A—Spray Nozzle
- B—Filter
- C—Spray Tip
- D—Opening in Spray Tip



M61039 -UN-01SEP88

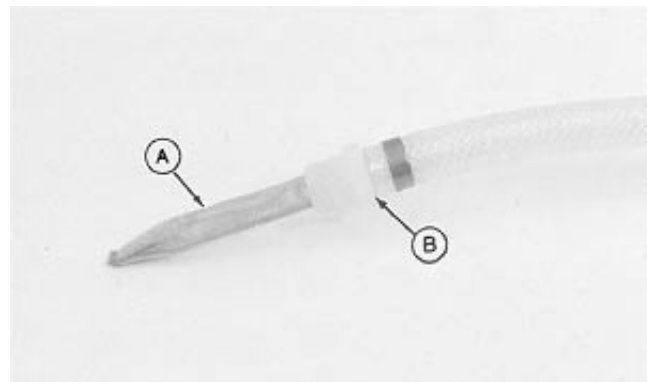
MX,SECJ,A -19-09APR91

CLEAN SUCTION SCREEN

Remove suction screen (A) from hose (B).

Wash screen in liquid detergent and warm water.

Install screen on hose.



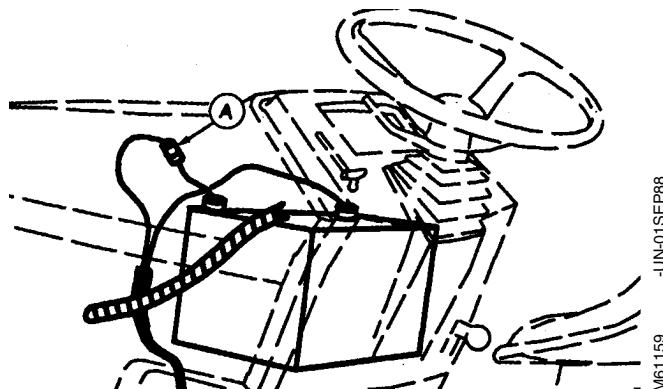
M61038 -UN-01SEP88

MX,SECJ,B -19-09APR91

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). Twist holder.
3. Remove fuse.
4. Install new fuse.



MX,SECJ,C -19-09APR91

Troubleshooting

PROBLEM	SOLUTION	SECTION
PUMP LOSES SUCTION	Clean Strainer. Fill tank Clean or replace suction hose. Push suction hose down into solution. Clean or replace pump. Adjust stabilizer.	Service Operating — — — —
PUMP CAPACITY DECREASED	Clean strainer Replace suction hose. Clean spray nozzle(s). Clean pump valves. Adjust stabilizer.	Service — Service — —
PUMP DOES NOT WORK	Check wiring connections. Check tractor battery. Check pump valves. Clean debris from pump. Check pump switch. Check pump motor. Check fuse at battery.	Assembly — — — — — —
SPRAY PATTERN POOR	Clean spray nozzle(s). Adjust stabilizer.	Service Operating
NOZZLE(S) DRIPS	Replace nozzle filter.	Service
TANK IS COLLAPSED	Check cap vent.	—
PUMP VIBRATES OR SPRAY PULSATES	Adjust pump.	Service
TANK DOES NOT SIT LEVEL	Adjust stabilizer.	Service

MX,TSCJ,A -19-09APR91

Storage

STORING SPRAYER



CAUTION: Help avoid chemical injury:

- **Wear protective clothes, gloves and goggles.**

Pump all sprayer material from tank.

Flush tank with water.

Wash tank with detergent.

Rinse tank with clear water.

Rinse tank thoroughly with a solution of household ammonia and water. Flush again with clear water.

Remove wiring harness from tractor.

Remove sprayer from tractor. (See REMOVING SPRAYER in Removing Sprayer section.)

Check sprayer for worn or damaged parts. Replace parts as needed.

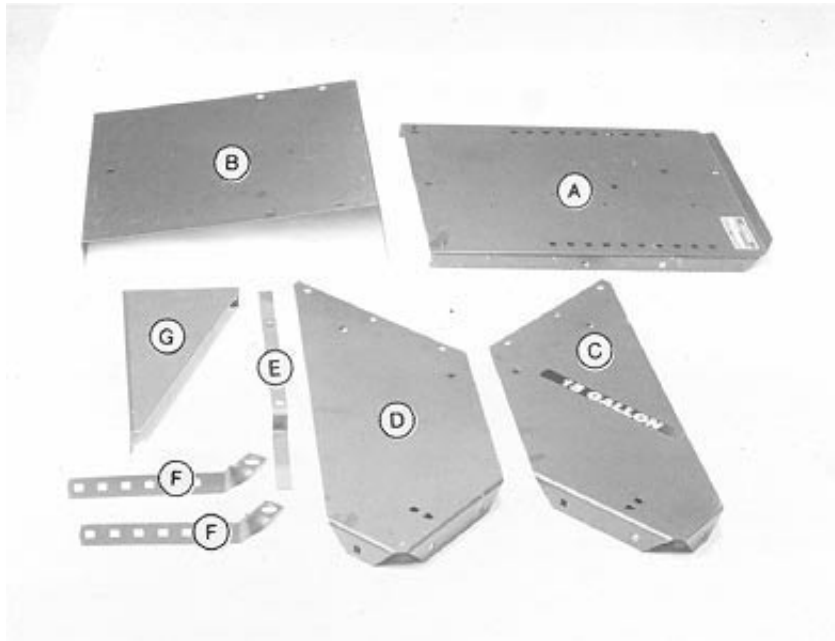
Tighten loose hardware.

Store sprayer in a place where it will not freeze.

MX,STCJ,A -19-09APR91

Assembly

IDENTIFY SPRAYER AND FRAME PARTS



M62955 -UN-28SEP89

Following is in box of parts:

- A-Frame Front
- B-Frame Floor
- C-Frame Left Side
- D-Frame Right Side
- E-Tender Hose
- F-Tip Supports
- G-Triangle Support
- H-Sprayer Tank
- Box of Parts



M62956 -UN-28SEP89

MX,ASCJ,A -19-09APR91



Following is in Box of Parts:

I-Pump With Hose Assemblies Installed
J-Wiring Harness
K-Wiring Harness Lead
Bags of Parts

Bags of Parts contain the following:

- (2) Spray Tips
- (2) Strainer Check Valves
- (2) Cap Nuts
- (2) Fitting Lock Nuts

- (16) 5/16 X 1/2-in. Carriage Bolts
- (8) 5/16 x 3/4-in. Carriage Bolts
- (2) 5/16 x 3/4-in. Truss Head Bolts
- (28) 5/16-in. Flange Hex Nuts
- 10/24 x 1/2-in. Round Head Bolt
- 10/24 Nut
- Handgun Holder
- Fill Cap

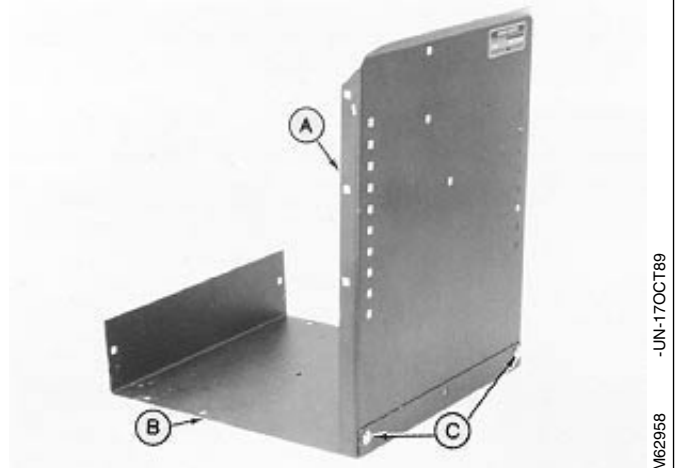
MX,ASCJ,B -19-09APR91

ASSEMBLE SPRAYER FRAME

NOTE: Place hex lock nuts to inside of frame.

1. Fasten frame front (A) to frame floor (B):

- Install two 5/16 x 1/2-in. carriage bolts and hex lock nuts (C) through frame front and frame floor.
- Tighten nuts.

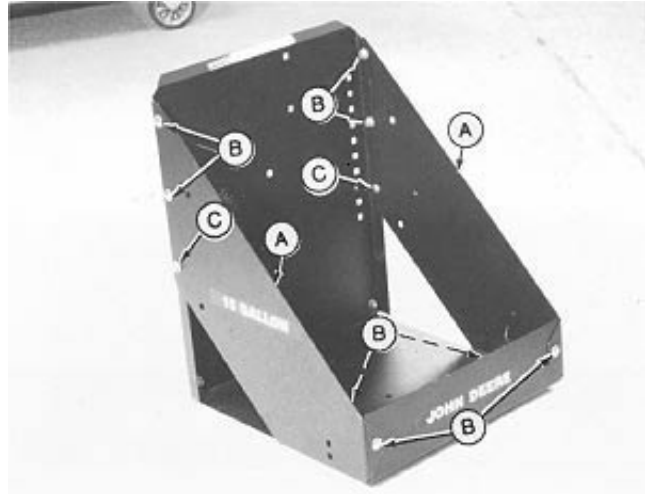


MX,ASCJ,C -19-09APR91

2. Fasten frame sides (A) to frame front and frame floor:

IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

- Install (12) 5/16 x 1/2-in. carriage bolts and hex lock nuts (B) through frame sides, frame front and frame floor.
- Tighten nuts.



M62959 -UN-28SEP89

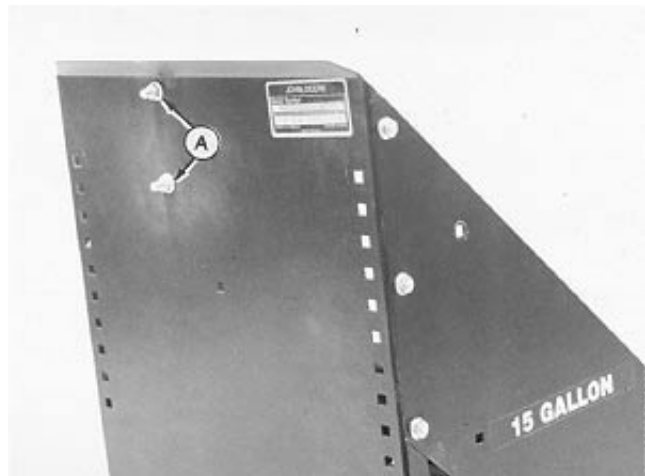
MX,ASCJ,D -19-09APR91

INSTALL PUMP ON SPRAYER FRAME

IMPORTANT: Bolt heads to inside of box to eliminate damage to box.

- **Avoid Mis-Use—Unplug pump when not in use.**

1. Install two 5/16 x 3/4-in. truss-head bolts and flange nuts (A) through frame front.
2. Tighten nuts. These two nuts act as spacers.



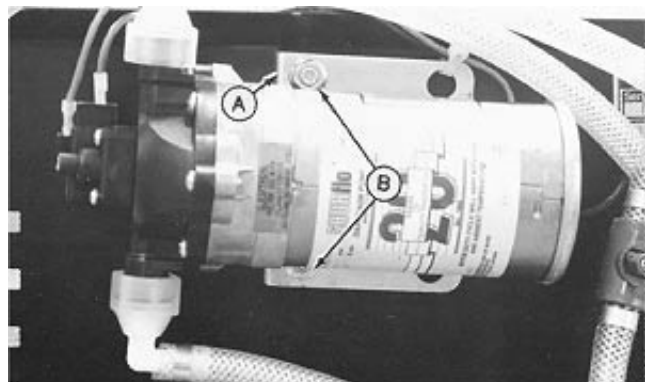
M62976 -UN-08NOV90

MX,ASCJ,E -19-09APR91

3. Place bracket (A) on bolts.

4. Fasten bracket with two flanged nuts (B).

5. Tighten nuts.



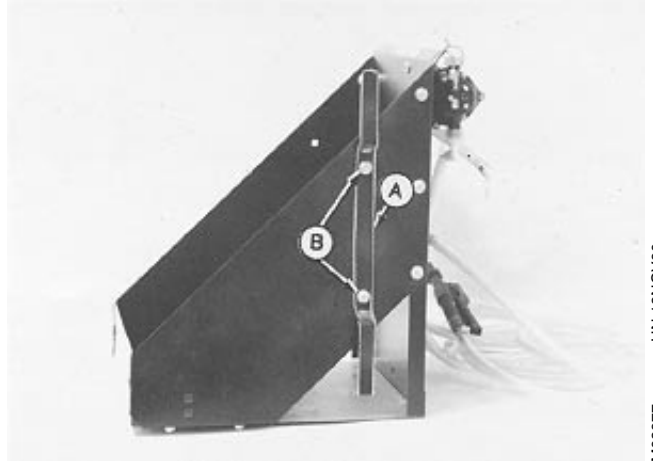
M62975 -UN-09NOV90

MX,ASCJ,E1 -19-09APR91

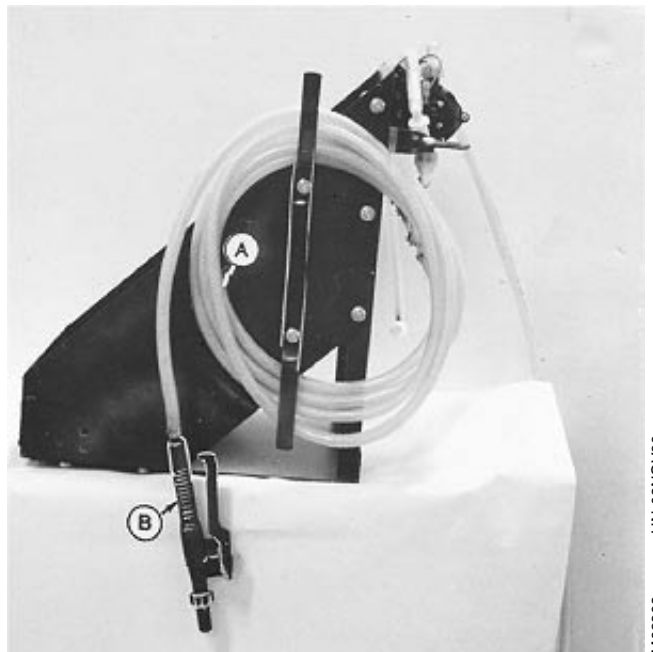
INSTALL HOSE BRACKET TO SPRAYER FRAME

IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

1. Install hose bracket (A) to right-hand side of sprayer frame.
2. Install two carriage bolts 5/16 x 1/2-in. and hex lock nuts (B) through frame side and bracket.
3. Tighten nuts.
4. Wrap hose (A) fairly tight around bracket.



M62977 -UN-12NOV90



M62968 -UN-08NOV90

MX,ASCJ,G -19-09APR91

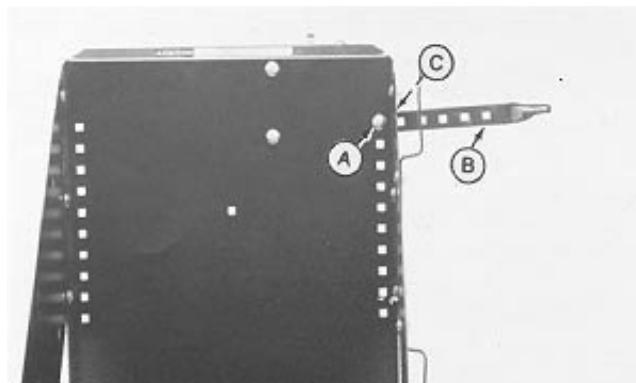
INSTALL TIP HOLDERS ON SPRAYER FRAME

IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

1. Insert one carriage bolt 5/16 x 3/4-in. (A) through frame front.
2. Put tip holder (B) over bolt and attach hex lock nut (C).

NOTE: Nozzle slots should be facing sideways.

3. Tighten nut.
4. Repeat above steps for other tip holder.
5. Adjust tip height and width. (See ADJUSTING TIP HEIGHT AND WIDTH in Operating Sprayer section.)



M62978 -UN-12NOV90

MX,ASCJ,F -19-09APR91

INSTALL HANDGUN HOLDER ON SPRAYER FRAME

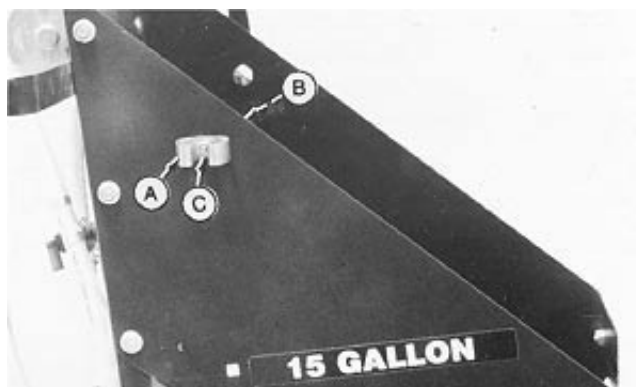
IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

1. Install handgun holder (A) to frame with one 10/24 x 1/2-in. round-head bolt (B) through frame and holder.
2. Attach nut (C).
3. Tighten nut.
4. Place handgun (D) in holder.

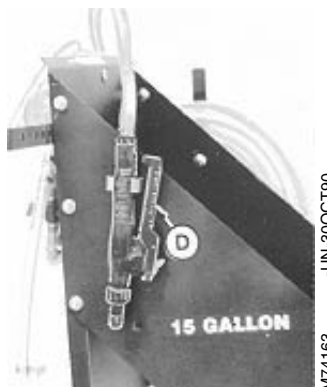
NOTE: There will be six 5/16 x 1/2-in. carriage bolts left over. These are used for the triangle support when attaching either the Mounting Kit or the Trail Kit.

5. Install triangle support. (See INSTALL MOUNTING KIT or TRAIL KIT in this section.)

A—Handgun Holder
B—Carriage Bolt
C—Nut
D—Handgun



M62983 -UN-09NOV90



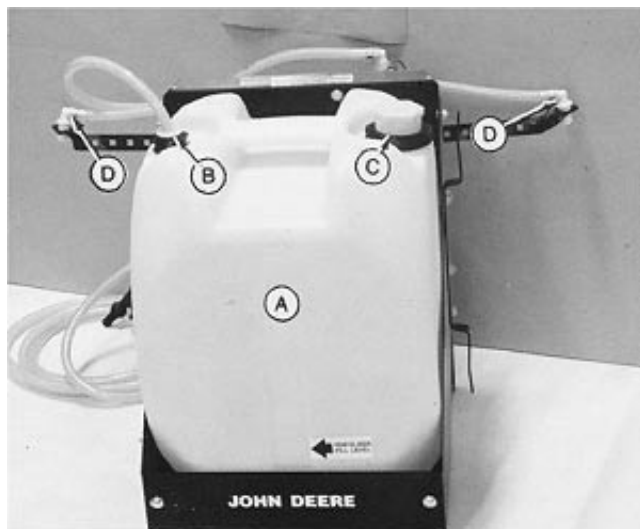
M74163 -UN-30OCT90

MX,ASCJ,H -19-09APR91

INSTALL SPRAYER TANK

1. Place tank (A) in frame.
2. Install one suction hose (B) in tank.
3. Install cap (C) and tighten.
4. Install two suction hoses (D) in holders.

A—Sprayer Tank
B—Suction Hose
C—Sprayer Tank Cap
D—Suction Hoses



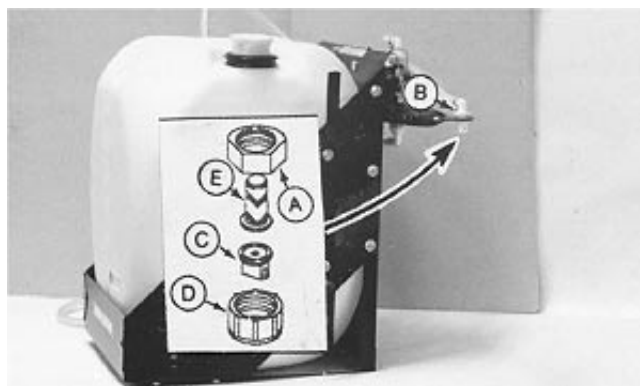
M62967 -UN-08NOV90

MX,ASCJ,V -19-09APR91

INSTALL SPRAY NOZZLE

1. Turn plastic lock nut (A) on plastic hose fitting (B).
2. Tighten plastic lock nut.
3. Place spray tip (C) in spray nozzle (D).
4. Place filter (E) flat side down on spray tip.
5. Screw entire assembly on plastic hose fitting.
6. Repeat above steps for other end of hose.

A—Plastic Lock Nut
B—Hose Fitting
C—Spray Tip
D—Spray Nozzle
E—Filter



Right-Hand Side Shown

M62984 -UN-08NOV90

MX,ASCJ,W -19-09APR91

PARTS LIST—MOUNTING KIT

Following is in Box of Parts:

- Drawbar
- Sprayer Anchor
- Tractor Anchor
- (2) Hook Straps
- (2) Straps
- Stabilizer Plate
- Bag of Parts

Following is in Bag of Parts:

- (2) 3/4-in. Drilled Pins (For tractors without rockshaft.)
- (2) 5/32 x 2-7/8-in. Spring Locking Pins (For tractors without rockshaft.)
- 1/2-in. Lock Washer
- 1/2-in. Flat Washer
- Wing Nut
- (4) 5/16 x 3/4-in. Carriage Bolts
- (8) 5/16-in. Hex Lock Nuts
- (2) 5/16 x 1-1/2-in. Carriage Bolts
- (2) 5/16 x 2-in. Drilled Pins
- (4) 3/32 x 1-5/8-in. Spring Locking Pins
- (2) 5/16 x 1-in. Carriage Bolts

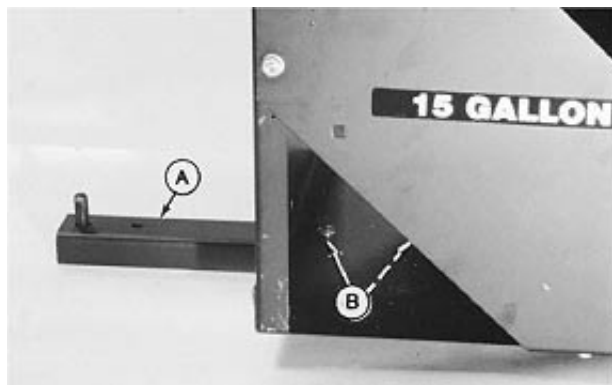
MX,ASCJ,I -19-09APR91

INSTALL MOUNTING KIT

1. Fasten drawbar (A) to frame floor:

IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

- Install two 5/16 x 3/4-in. carriage bolts and hex lock nuts (B) through frame floor and drawbar.
- Tighten nuts.

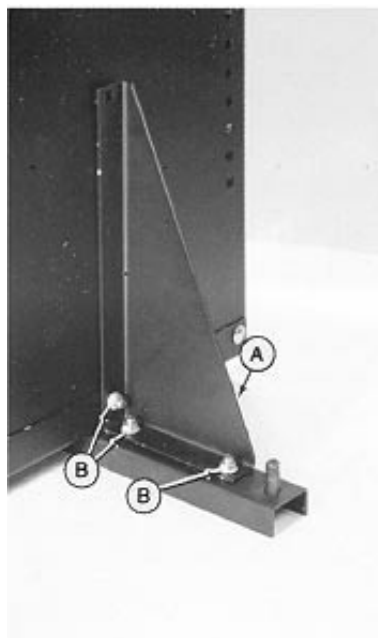


MX,ASCJ,J -19-09APR91

2. Fasten triangle support (A) to frame front and drawbar:

IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

- Install three 5/16 x 3/4-in. carriage bolts and hex lock nuts (B) to frame and drawbar.
- DO NOT tighten nuts at this time.

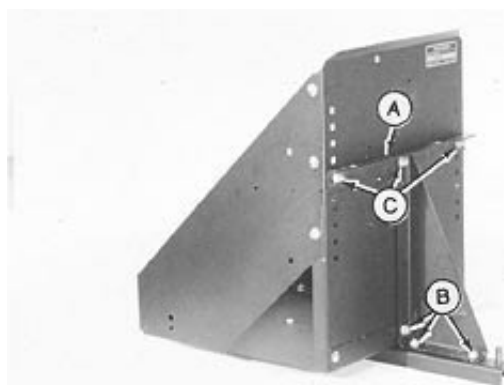


M62961 -UN-28SEP89

MX,ASCJ,K -19-09APR91

3. Fasten anchor (A) to frame front:

- Install three 5/16 x 3/4-in. carriage bolts and hex lock nuts (C) through anchor and front frame.
- Tighten nuts (B) and (C).
- Install Mounting Kit on tractor. (See INSTALLING SPRAYER in Installing Sprayer section for attaching MOUNTING KIT to tractor.



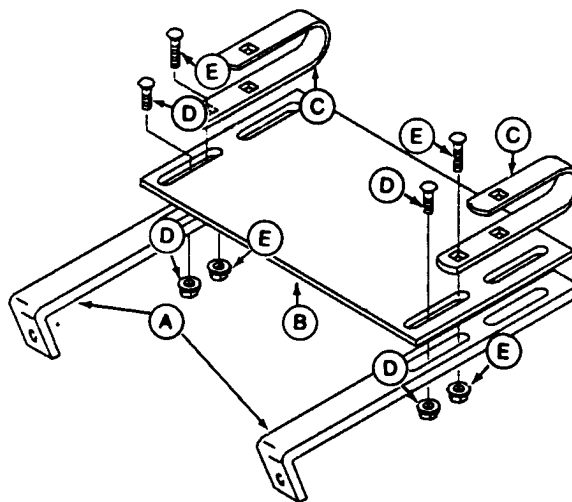
M62962 -UN-18DEC89

MX,ASCJ,L -19-09APR91

ASSEMBLE STABILIZER—TRACTORS EQUIPPED WITH REAR ROCKSHAFT

1. Place J-straps (A) under plate (B). Fasten with two 5/16 x 3/4-in. carriage bolts and lock nuts (D).
2. Place hook straps (C) on top of plate (B). Fasten with two 5/16 x 1-in. carriage bolts and lock nuts (E).
3. Assemble straps and plate loosely. DO NOT tighten nuts until you install stabilizer bracket on tractor.
4. Install stabilizer on tractor. (See INSTALLING SPRAYER in Installing Sprayer section for attaching STABILIZER to tractor.)

A—J-Straps
B—Plate
C—Hook Straps
D—Carriage Bolts and Lock Nuts
E—Carriage Bolts and Lock Nuts



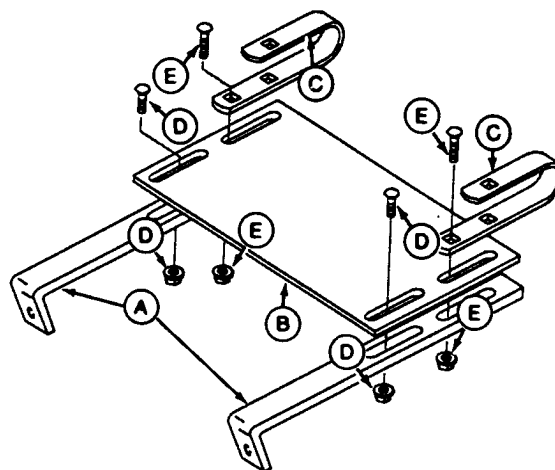
M74166 -UN-12NOV90

MX,ASCJ,M -19-09APR91

ASSEMBLE STABILIZER—TRACTORS EQUIPPED WITHOUT REAR ROCKSHAFT

1. Place J-straps (A) under plate (B). Fasten with two 5/16 x 3/4-in. carriage bolts and lock nuts (D).
2. Place hook straps (C) on top of plate (B). Fasten with two 5/16 x 1-in. carriage bolts and lock nuts (E).
3. Assemble straps and plate loosely. DO NOT tighten nuts until you install stabilizer bracket on tractor.
4. Install stabilizer on tractor. (See INSTALLING SPRAYER in Installing Sprayer section for attaching STABILIZER to tractor.)

A—J-Straps
B—Plate
C—Hook Straps
D—Carriage Bolts and Lock Nuts
E—Carriage Bolts and Lock Nuts



M74174 -UN-12NOV90

MX,ASCJ,M1 -19-09APR91

PARTS LIST—TRAIL KIT

Following is in Box of Parts:

- (2) Wheels with Tires
- Drawbar
- Axle
- Drawbar Clevis
- Wire Harness Extension
- (2) Axle Mount Brackets

Following is in Bag of Parts:

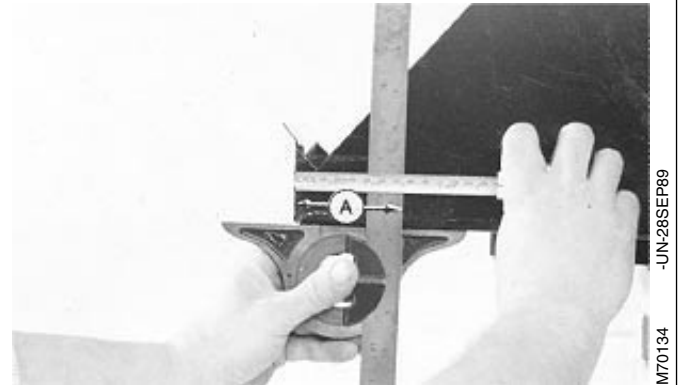
- Hitch Pin
- Tether Chain
- S-Hook
- Split Ring
- (4) .656 x 1.00 x .060 Flat Washers
- (4) 5/16 x 3/4-in. Round Head Bolts
- (2) 5/16 x 1-in. Round Head Bolts
- (6) Flange Nuts
- (6) Cotter Pins
- Quick Pull Pin
- (2) .375 x .625 x .030 Flat Washers

MX,ASCJ,N -19-09APR91

ASSEMBLE TRAIL KIT

NOTE: Steps 1—5 are only required on welded sprayer frames. Bolt together frames are pre-drilled.

1. Holding a square against bottom of sprayer box, measure back 7.62 mm (3-in.) Mark vertical line on both sides of box with pencil.



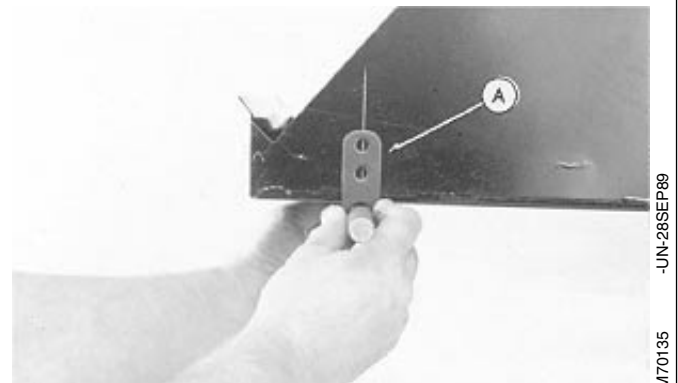
MX,ASCJ,O -19-09APR91

2. Slide one axle mount bracket onto axle. Hold axle flush against bottom of sprayer box. Align center of two holes in bracket (A) with pencil mark.

3. Mark and center punch two holes.

4. Drill two 11/32-in. holes.

5. Repeat Steps 1—4 for other side of box.

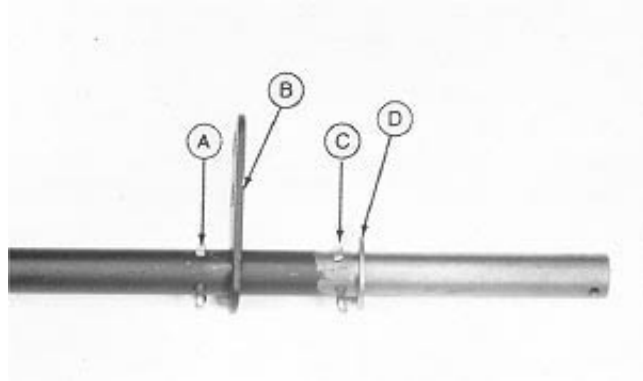


MX,ASCJ,P -19-09APR91

6. On WELDED sprayer frames:

- Install cotter pin (A) on inside of axle mount bracket (B).
- Install cotter pin (C) and washer (D) to each end of axle shaft.
- Repeat above steps for other side of axle shaft.

A—Cotter Pin
B—Axle Mount Bracket
C—Cotter Pin
D—Washer

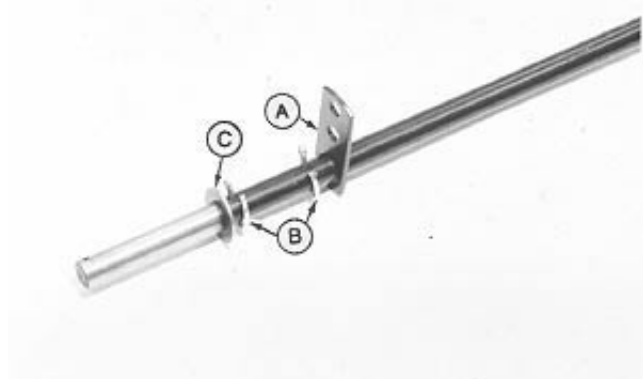


MX,ASCJ,Q -19-09APR91

M70136 -UN-28SEP89

7. On BOLT TOGETHER sprayer frames:

- Slide axle mount bracket (A) on axle shaft.
- Install two cotter pins (B) on axle shaft.
- Slide washer (C) on axle shaft.
- Repeat above steps for other side of axle shaft.



MX,ASCJ,QQ -19-09APR91

M74165 -UN-10JAN90

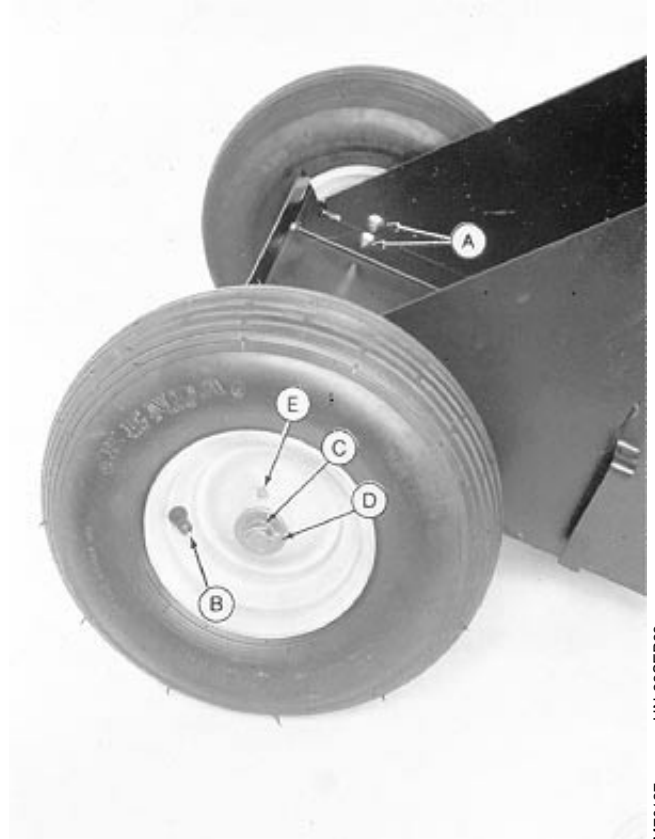
IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

8. Fasten axle to sprayer box with four 5/16 x 3/4-in. bolts (A) and four flange nuts.

9. Install wheels with valve stems (B) to outside:

- Attach with washer (C) and cotter pin (D).
- Grease wheels at grease zerk (E) with one or two shots of John Deere multipurpose grease.
- Inflate tires to 10 PSI.

A—Bolts
B—Valve Stems
C—Washer
D—Cotter Pin
E—Grease Zerk



M70137
-UN-28SEP89

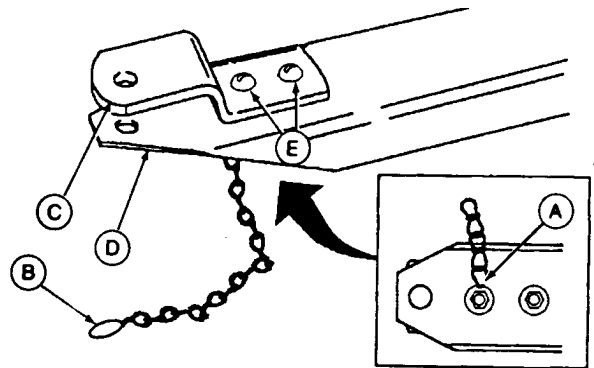
MX,ASCJ,R -19-09APR91

10. Fasten S-hook (A) to tether chain and bend S-hook end closed.

11. Fasten split ring (B) to other end.

- Install clevis (C) to drawbar (D) with two 5/16 x 1-in. round-head bolts (E).
- Slip S-hook on tether chain over front bolt on bottom side of drawbar and bend S-hook end closed.
- Fasten with flange nuts.

A—S-Hook
B—Split Ring
C—Clevis
D—Drawbar
E—Round Head Bolts

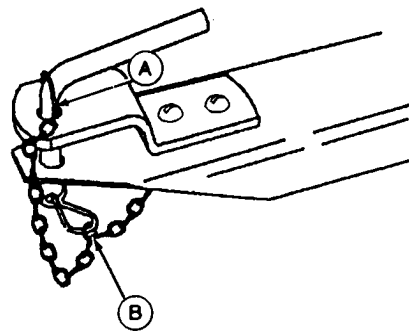


M70138
-UN-28SEP89

MX,ASCJ,S -19-09APR91

12. Fasten split ring (A) to drilled hole near bend in clevis pin:

- Install quick pull pin (B) in middle of chain.
- Install clevis pin through drawbar bracket and drawbar.
- Install quick pull pin.



MX,ASCJ,T -19-09APR91

M70139 -UN-28SEP89

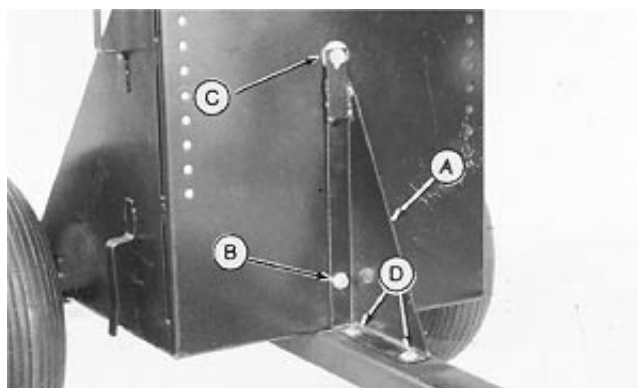
IMPORTANT: Bolt heads to inside of box to eliminate damage to tank.

13. Fasten bottom of support bracket (A) to sprayer box with one 5/16 x 3/4-in. round-head bolt (B) and flange nut:

- Fasten top of bracket to sprayer box with one 5/16 x 3/4-in. round-head bolt and flat washer (C) between support bracket and sprayer box.

14. Fasten drawbar to bottom of box and support bracket with four 5/16 x 3/4-in round-head bolts (D) and flange nuts.

- Install Trail Kit on tractor (See INSTALLING SPRAYER in Installing Sprayer section for attaching TRAIL KIT on tractor.)



- A—Support Bracket
- B—Round Head Bolt and Flange Nut
- C—Round Head Bolt and Washers
- D—Round Head Bolt and Flange Nuts

MX,ASCJ,U -19-09APR91

M70148 -UN-18DEC89

Specifications

SPRAYER SPECIFICATIONS

Tank	15 gallon (57 L)
Pump	Electric Motor and Diaphragm
Manufacturer	Shurr Flo
Current Draw	7 amp
Fuse	15 amp
Flow Rate	6 U.S. gal/min (23 L/min)
Suction Hose Strainer	Stainless Steel
Spray Tip	Two #5, 80°
Material	Stainless Steel
Handgun Material	Plastic
Adjustment	Fan to Stream
Net Weight with Integral Mounting Kit	40-lb (18 kg)

NOTE: (Specifications and design subject to change without notice.)

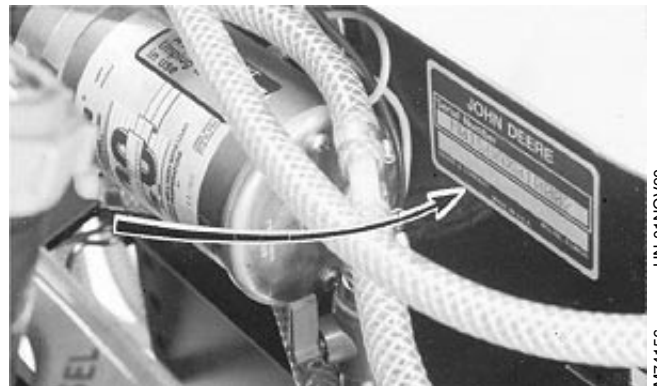
MX,SPCJ,A -19-09APR91

SPRAYER SERIAL NUMBER

Write your sprayer serial number below. Your John Deere Dealer needs this number when you order parts.

Serial number plate is on front of frame, left side.

Serial Number _____



M74156 -UN-01NOV90

MX,SPCJ,B -19-09APR91

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Grease

Extreme pressure and multipurpose 17

John Deere Service Literature Available

PARTS CATALOG

The parts catalog lists service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.



TS189
-UN-17JAN89

DX,PARTS -19-04JUN90

OPERATOR'S MANUAL

The operator's manual provides safety, operating, maintenance, and service information about John Deere machines.

An extra copy of the operator's manual is important if the copy furnished with your machine is misplaced.



TS190
-UN-17JAN89

DX,OM -19-04JUN90

FUNDAMENTALS OF SERVICE MANUALS

These basic manuals cover most makes and types of machines. FOS manuals tell you how to service machines. Each manual starts with basic theory and is fully illustrated with colorful diagrams and photographs. Both the "whys" and "hows" of adjustments and repairs are covered in this reference library.



TS194
-UN-02DEC88

DX,CPFOS -19-04JUN90

John Deere Service Keeps You On The Job



John Deere is at your service when you need it

John Deere takes pride in providing superior service. We'll be around when you need us. To help minimize downtime, we maintain a large and varied parts inventory. Precision tools and testing equipment enable dealerships to locate and correct troubles quickly. We hold regular training schools for service technicians so they know your equipment and how to maintain it. Our goal is to provide prompt, efficient service through competent dealerships.

Your dealer is interested in your satisfaction and stands ready to help you with your service needs. When you need service:

- First, discuss the problem with your dealership service manager.
- If unable to resolve, see the dealership manager, explain the problem, and request assistance. Make sure your dealer is aware of your problem and has the opportunity to help you. Your dealer can request company assistance if needed.
- If you have a persistent problem that your dealership is unable to satisfy, contact the John Deere branch office within your geographic area on the map.

Be prepared with the following information:

- Machine model and product serial number (PIN)
- Date of purchase
- Selling/servicing dealer
- Nature of problem

Sales Branch

1. JOHN DEERE COMPANY
701 Georgeville Road
Columbus, OH 43228
614-275-1500

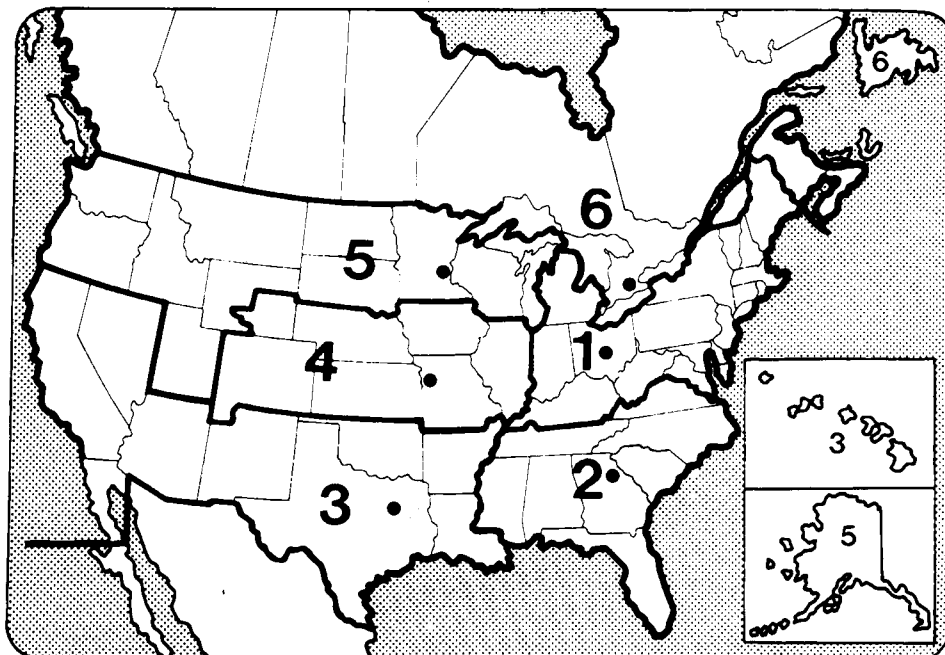
2. JOHN DEERE COMPANY
2001 Deere Dr.
Conyers, GA 30208
404-922-7040

3. JOHN DEERE COMPANY
10650 Hines Boulevard
Dallas, TX 75220-2635
214-352-1701

4. JOHN DEERE COMPANY
3210 East 85th Street
Southeast Station
Kansas City, MO 64132-2586
816-361-4000

5. JOHN DEERE COMPANY
2001 West 94th Street
Bloomington, MN 55431-2311
612-887-6200

6. JOHN DEERE COMPANY
South Service Road at Hunter
Grimsby, Ontario, Canada L3M 4H5
416-945-9281



TS-214

DX,IBC,2

-19-28AUG90

TS214
-19-28AUG90

