435

72-Inch (Direct Drive)
Side Discharge Mower
for F1145 Front Mower
(Four Wheel Drive)





OPERATOR'S MANUAL



John Deere Horicon Works OMM113012 Issue B2

ITHO IN U.S.A.

Introduction

THANK YOU for purchasing a John Deere product.

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

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

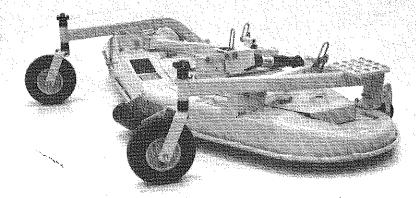
MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalent. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the mower will travel when going forward.

WRITE PRODUCT IDENTIFICATIONS NUMBERS (P.I.N.) in the Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the mower should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the mower.

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. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied.



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Contents

Page	Page
O-f-Mr.	
Safety	Checking Gearbox Oil Level 26
Installing Mower	Removing Gearbox and Changing
•	Gearbox Oil
Installing Lift Arms on Front Mower 5	Installing Gearbox
Fastening Mower to Lift Arms 6	Removing Mower Belt
Connecting Driveline 6 Installing Rear Lift Rods 6	Installing Mower Belt
installing flear Lift flous	Checking Blades and/or Removing
Damarina Marray	Blades
Removing Mower 8	Sharpening Blades
	Balancing Blades
Operating Mower	Installing Blades
Operate Mower Safely	Checking for Bent Blade
Avoid Injury from Rotating Blades	Inspect Belt and Adjust Idler Arm Stop 39
Adjusting Left Rear Gage Wheel	Removing Idler and Spindle Sheaves 40
Adjusting Cutting Height (Front Wheels) 12	Removing PTO Shaft 42
Adjusting Cutting Height (Rear Lift Rods) 13	
Adjusting Cutting Height (Rear Wheels) 13	Troubleshooting
Checking Level (Front-To-Rear)	
Adjusting Level (Front-To-Rear)	Storage
Checking Level (Side-To-Side)	•
Driving to Mowing Area	Assembly
Choose Travel Speed	
Dismounting to Inspect Mower	Specifications 49
Mowing Tips	
After Mowing	Index
Lubrication	
Service	
John Deere Parts—Your Best Choice 20	·
Service Intervals	
Checking Hardware	, And the second
Lubricating Driveline	
Lubricating Front Wheels	
Lubricating Rear Wheels	
Lubricate Mower Spindles (Right and	
Left-Hand Sides)	
Lubricate Mower Spindle (Center)	×
Lubricate Arm Pivot Bushing	
Fastening Service Latch	
Removing Belt Shields 24	

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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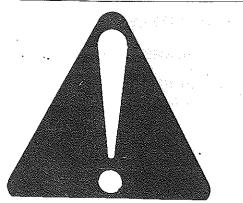
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Safety

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

ERT -19-04JUN90

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.



AWARNING

ACAUTION

DX,SIGNAL -19-09JAN92

FOLLOW SAFETY INSTRUCTIONS

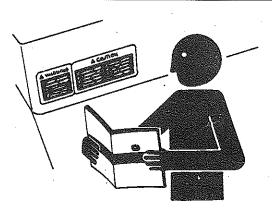
Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere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



TS

X,READ -19-04JUN90

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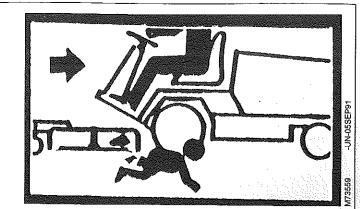
BACK UP SAFELY

ROTATING BLADES CAN CUT OFF ARMS OR LEGS.

DO NOT MOW IN REVERSE UNLESS IT IS ABSOLUTELY NECESSARY.

BACK VERY CAREFULLY TO HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

- FIRST: DISENGAGE the mower.
- THEN LOOK CAREFULLY over the entire area behind the Front Mower.
- LOOK DOWN AND BEHIND before and while backing.
- LOOK ESPECIALLY FOR CHILDREN!



MX,SAGZ,BA -19-20FEB9

COMPLIANCE LABEL

THIS MODEL HAS BEEN TESTED AND EVALUATED BY THE MANUFACTURER AND CONFORMS TO ALL APPLICABLE ROTARY MOWER REQUIREMENTS OF ANSI B71.4 - 1984 AMERICAN NATIONAL STANDARD FOR COMMERCIAL TURF CARE EQUIPMENT SAFETY SPECIFICATION

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MX,SAGZ,B -19-20FEB92



READ SAFETY SIGNS

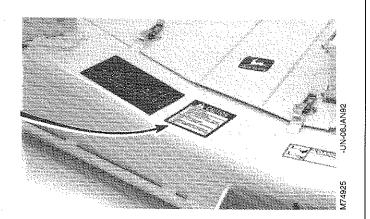
? CAUTION

AVCID INJURY

- DO NOT OPERATE MOWER WITH SHIELDS REMOVED
- . KEEP HANDS AND FEET AWAY
- STAY CLEAR OF POWER DRIVEN
 PARTS

BEFORE SERVICING

- SHUT OFF ENGINE AND REMOVE
 KEY
- LOWER OR SECURE MOWER IN
 RAISED POSITION WITH SERVICE
 LINK



-19-15NOV®

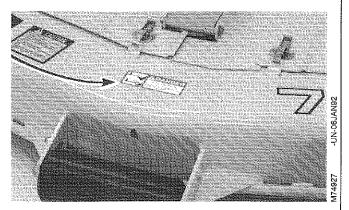
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MX,SAGZ,G



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MX,SAGZ,H -1

SAGZ,H -19-20FEB9

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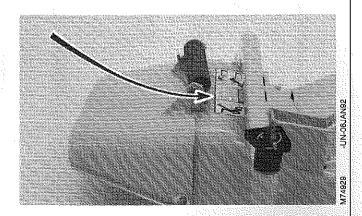




ROTATING BLADE
DO NOT PUT HANDS OR FEET UNDER OR
INTO MOWER WHEN ENGINE IS RUNNING THROWN OBJECTS
BEFORE MOWING. CLEAR AREA OF PEOPLE
AND OBJECTS THAT MAY BE THROWN BY
BLADE

DO NOT OPERATE MOWER WITHOUT DISCHARGE CHUTE OR ENTIRE GRASS CATCHER IN PLACE





MX,SAGZ,I -19-20FEB92





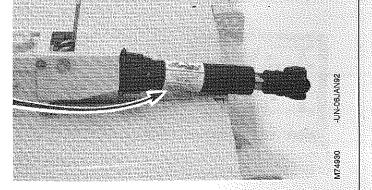
ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY!

DO NOT OPERATE WITHOUT -

- ALL DRIVELINE, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE SHIELDS THAT TURN FREELY ON DRIVELINE

WEASLER

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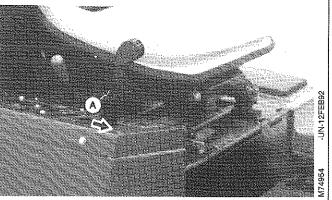


MX,SAGZ,J -19-20FEB92

Installing Mower

INSTALLING LIFT ARMS ON FRONT MOWER

1. Push hydraulic lever (A) all the way forward to FLOAT position.



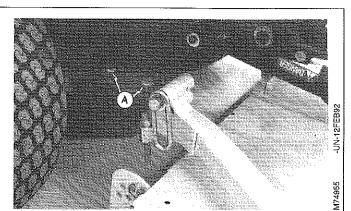
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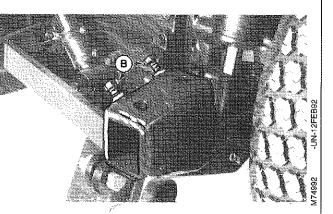
NOTE: Lift arms MUST BE removed from mower deck before installing lift arms to Front Mower.

- 2. Install lift arms on Front Mower and fasten each lift arm with two drilled pins (A).
- 3. Loosen jam nuts on the two left lift arm corner bolts.
- 4. Grasp outer end of this lift arm, raising it slightly to remove the play in its socket.

NOTE: DO NOT OVERTIGHTEN BOLTS.

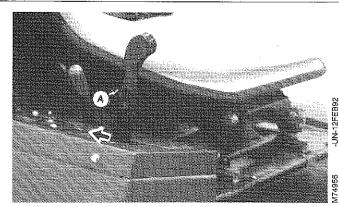
- 5. Tighten bolts (B) on left lift arm to 30 ft-lb (41 N·m).
- 6. Tighten jam nuts.





MX,INGZ,B1 -19-21FEB92

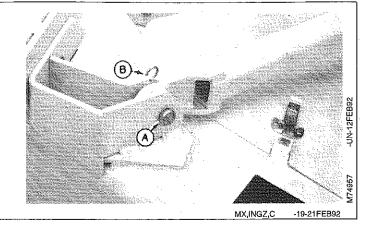
- 7. Start Front Mower. Release park brake.
- 8. Raise lift arms by pulling hydraulic lever (A) back to the LIFT position.
- 9. Drive Front Mower to mower deck and lower lift arms to FLOAT position.
- 10. Turn engine OFF. Set park brake.



MX.INGZ.B2 -19-21FEB92

FASTENING MOWER TO LIFT ARMS

Align each lift arm with mower mounts and fasten each lift arm with drilled pin (A) and spring locking ring (B).

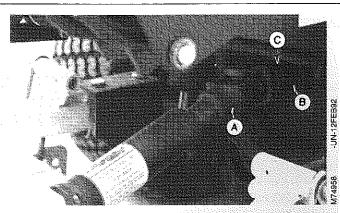


CONNECTING DRIVELINE



CAUTION: DO NOT run engine during this procedure.

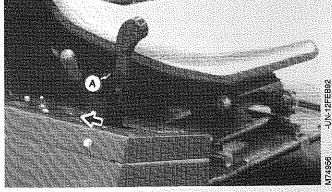
- 1. Put end of mower driveline (A) on Front Mower driveshaft (B).
- 2. Turn driveline to line up with driveshaft.
- 3. Pull back collar (C) and push driveline fully onto the driveshaft until collar can be slid forward, LOCKING it in
- 4. Slide driveline back and forth to MAKE SURE driveline is LOCKED in place.



MX,INGZ,D -19-21FEB92

INSTALLING REAR LIFT RODS

- 1. Start Front Mower engine.
- 2. Pull hydraulic lever (A) all the way rearward to the LIFT position.

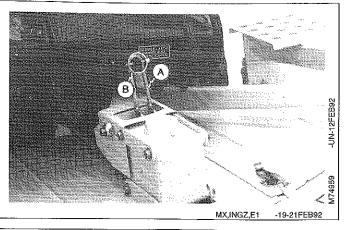


3. STOP engine. Remove Key.



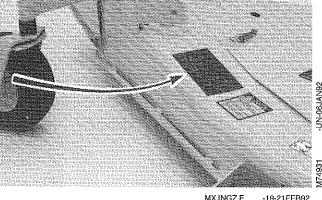
CAUTION: Fasten service latch ONLY when Front Mower is parked for service.

- DO NOT fasten service latch before driving or transporting.
- 4. Fasten the service latch (A) to Front Mower frame with lynch pin (B).

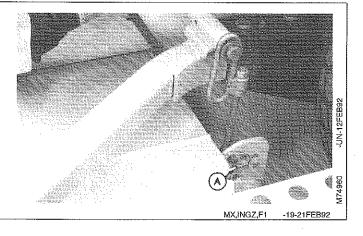


NOTE: Rear cutting height must be same as front cutting

5. Check decal (on mower) and install each lift rod in hole indicating desired cutting height. (See ADJUSTING CUTTING HEIGHT in Operating Mower section.)



- 6. Install spring locking ring (A).
- 7. Level the mower. (See ADJUSTING LEVEL in Operating Mower section.)



Removing Mower

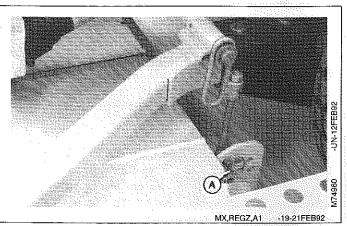
8

REMOVING MOWER

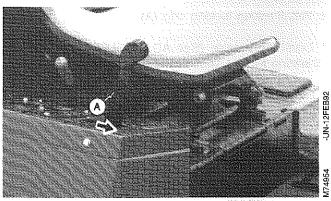
- 1. Park Front Mower on a level surface. Keep mower in RAISED position:
- LOCK park brake.
- STOP engine.
- Remove key.

NOTE: Put locking rings back on lift rods for storage.

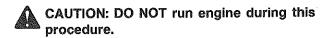
2. Disconnect each rear lift rod by removing spring locking ring (A).



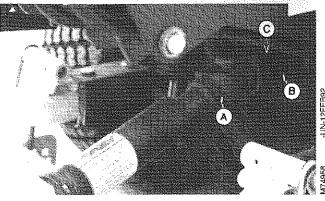
3. Lower mower to ground by pushing hydraulic lever (A) all the way forward to FLOAT position.



MX,REGZ,A2 -19-21FEB92



- 4. Disconnect driveline from Front Mower:
- Pull back coupler (C).
- Pull mower driveline (A) off of Front Mower driveshaft

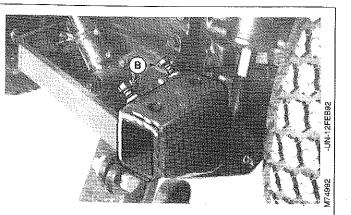


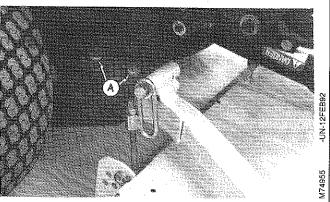
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Removing Mower

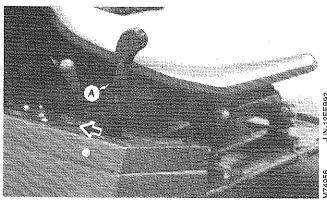
NOTE: Install drilled pins back on Front Mower lift arms for storage.

- 5. Loosen the two corner bolts (B) (left-hand lift arm
- 6. Remove each lift arm from Front Mower by removing two drilled pins (A).





- 7. Start engine. Release park brake.
- 8. Raise lift arms by pulling hydraulic lever (A) all the way to the rear to LIFT position.
- 9. Back Front Mower away from mower.



OPERATE MOWER SAFELY

READ OPERATORS MANUAL:

- Read instructions carefully. Be familiar with the proper use of the mower.
- Keep in mind that the operator or user of the mower is responsible for accidents or hazards occurring to other people or their property.

CHECK GROUND CONDITIONS:

- Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects that could be thrown by mower.
- Consider area you plan to mow. Setup a safe mowing pattern. DO NOT mow under conditions in which traction or stability is doubtful. Test drive area with PTO OFF.
- Travel slowly over rough ground.

CHECK MOWER REGULARLY:

- Before using mower, always visually inspect to see that blades, blade bolts, and cutter assembly are not worn or damaged. Replace worn or damaged blades, and bolts in sets to preserve balance.
- Never operate mower with defective guards, shields or without safety protective devices in place.
- Use Front Mower weights that are approved for your mower.

MOUNT AND DISMOUNT FRONT MOWER SAFELY:

- Use the mower step when you mount or dismount Front Mower.
- Keep step and platform clean.

PROTECT BYSTANDERS (ESPECIALLY CHILDREN):

- Never mow while people, especially children, or pets are nearby.
- Never allow children or people unfamiliar with the instructions to use the mower. Local regulations may restrict the age of the operator.
- Mow only in daylight or in good artificial light.
- Operating the mower safely requires the full attention of the operator. DO NOT wear radio or music headphones while operating mower.

AVOID INJURY FROM MOVING PARTS:

- STOP PTO when you are not mowing grass.
- STOP mower blades when you are driving between mowing jobs or when you are not using mower.
- STOP mower blades before you cross a gravel road or path, a sidewalk, or a road.
- DISENGAGE drive to attachments, STOP the engine, and disconnect the spark-plug lead(s) or remove the kev:
- —Before cleaning blockages or unclugging chute.
- —Before checking, cleaning or working on the mower.
- —After striking a foreign object. Inspect the mower for damage and make repairs before restarting and operating the mower.
- —If the mower starts to vibrate abnormally (check immediately).
- Keep clothing away from mower deck and discharge chute when blades are turning.

AVOID INJURY FROM ROTATING BLADES:

- On multibladed mowers, take care as rotating one blade can cause other blades to rotate.
- DO NOT put hands or feet under or into mower when Front Mower engine is running.
- STOP Front Mower engine before you adjust mower.
- DO NOT adjust mower wheels or level mower while the Front Mower engine is running. If these adjustments need to be made, STOP the Front Mower engine, and remove the key.

WEAR PROTECTIVE CLOTHING:

- While mowing, always wear substantial footwear and long trousers.
- DO NOT operate mower when barefoot or wearing open sandals.
- 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.

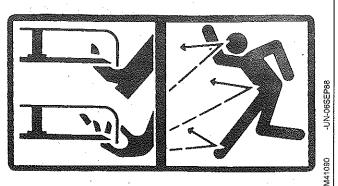
AVOID INJURY FROM ROTATING BLADES

CAUTION: DO NOT not put hands or feet under mower when engine is running.

- · Before mowing, clear area of people.
- Pick up objects that may be thrown by blades.
- Keep guards and shields in place.

STOP engine before you adjust mower.

STOP PTO when you are not mowing.

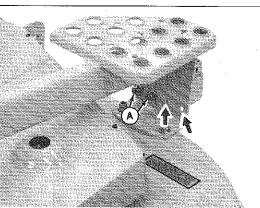


MX,OMGZ,A -19-20FEB92

ADJUSTING LEFT REAR GAGE WHEEL

The left rear gage wheel can be adjusted according to the size of tire on your Front Mower.

- 1. Remove two lock nuts and bolts (A).
- 2. Move rear gage wheel bracket to correct holes on front mower wheel arm bracket.
- 3. Install bolts and lock nuts (removed above.)
- 4. Tighten nuts.



MX,OMGZ,B1 -19-21FEB92

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ADJUSTING CUTTING HEIGHT (FRONT WHEELS)

NOTE: Many lawn care professionals suggest cutting the lawn high and often.

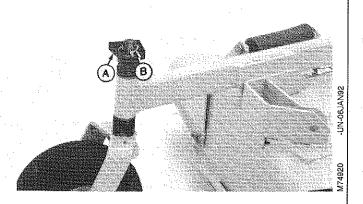
You can adjust cutting height from 1-1/2-in-4-1/2-in (38 mm—114 mm).



CAUTION: Be sure engine is shut off. • DO NOT work under a RAISED mower UNLESS it is supported correctly OR fastened with service latch.

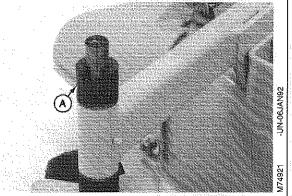


- 2. Fasten service latch to Front Mower frame. (See FASTENING SERVICE LATCH in Service section.)
- 3. Remove pin guard (A) and lynch pin (B).



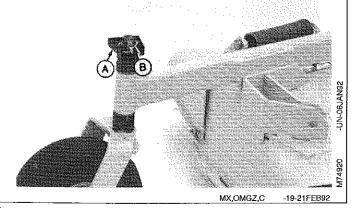
4. Remove required number of spacers (A). Use chart below or one on mower deck for correct number of spacers to use with each cutting height.

Number of Spacers	Cutting Height
No spacers	1-1/2-in. (38 mm)
1	2-in. (51 mm)
2	2-1/2-in. (64 mm)
3	3-in. (76 mm)
4	3-1/2-in. (89 mm)
5.	4-in. (102 mm)
6	4-1/2-in. (114 mm)



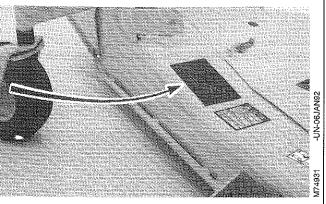
MX,OMGZ,B2 -19-21FEB92

- 5. Install pin guard (A) and lynch pin (B).
- 6. Adjust other wheel using the same number of spacers.



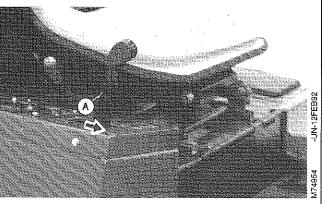
ADJUSTING CUTTING HEIGHT (REAR LIFT RODS)

Install rear lift rods in correct hole to match front cutting height. (See decal located on the mower and follow illustrations for correct location of rear lift rods.)



ADJUSTING CUTTING HEIGHT (REAR WHEELS)

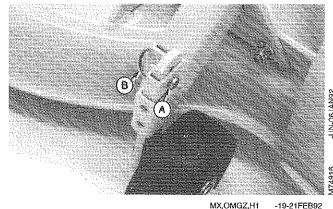
- 1. Park Front Mower on a hard, level surface.
- 2. STOP engine. Remove key.
- 3. Lower mower to ground by moving hydraulic lever (A) all the way forward to FLOAT position.



4. Remove spring locking ring (B) and drilled pin (A).

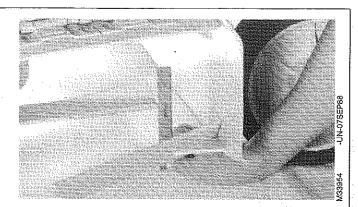
NOTE: Adjust rear wheels within 1/2 in (12.7 mm) from

5. Install drilled pin and spring locking ring.



CHECKING LEVEL (FRONT-TO-REAR)

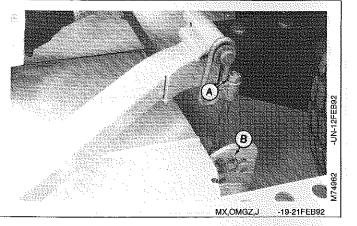
- 1. Set mower cutting height at 3-in (76 mm) for normal mowing. (See ADJUSTING CUTTING HEIGHT in this section.)
- 2. Park Front Mower on a hard, level surface, such as a cement floor:
- Lower mower to the ground.
- STOP engine.
- LOCK park brake.
- Remove key.
- 3. Check front-to-rear level:
- Turn outer blade on right side to point straight forward.
- Measure distance from front blade tip to floor.
- Turn blade (180°).
- Measure distance from rear blade tip to floor.
- Rear measurement should be 1/8 in (3 mm) more than front measurement.
- Check and adjust outer blade on left side in same way.



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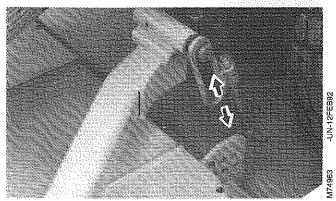
ADJUSTING LEVEL (FRONT-TO-REAR)

- 1. Loosen jam nut (A).
- 2. Disconnect lift rod from mower by removing spring locking ring (B).



NOTE: Rear measurement should be 1/8-in. (3 mm) more than front measurement.

- 3. Turn lift rod INTO jam nut to RAISE mower.
- Turn lift rod OUT of jam nut to LOWER mower.
- 4. Tighten jam nut.



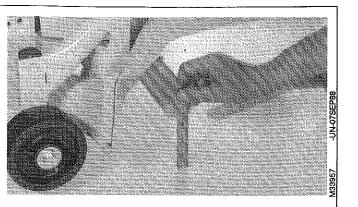
MX,OMGZ,J1 -19-21FEB92

CHECKING LEVEL (SIDE-TO-SIDE)

- 1. Turn outer blade on each side to point directly to side.
- 2. Measure distance from each outer blade tip to floor.

NOTE: Difference between measurements should not be more than 1/8-in. (3 mm).

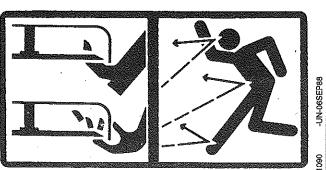
3. Adjust rear lift rod(s). (See ADJUST FRONT-TO-REAR LEVEL in this section.)



DRIVING TO MOWING AREA

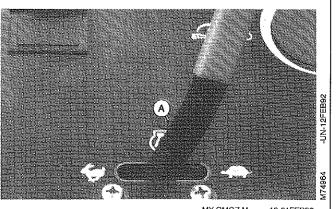
CAUTION: DO NOT put hands or feet under or into mower when engine is running.

- · Before mowing, clear area of people and objects that may be thrown by blade.
- DO NOT operate mower without discharge chute or entire grass catcher in place.
- 1. Move hydraulic lever (A) all the way forward to FLOAT position.
- 2. Drive to mowing area.
- 3. STOP Front Mower travel.



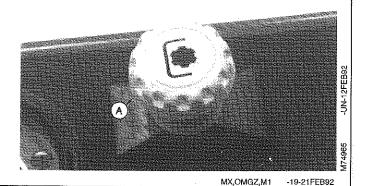
IMPORTANT: To avoid Front Mower damage: • DO NOT engage PTO with throttle in the FAST (rabbit) position.

4. Move throttle lever (A) to 1/3 position.



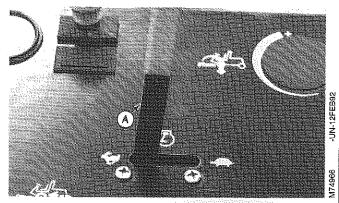
MX,OMGZ,M -19-21FEB92

5. Pull PTO knob (A) UP to ENGAGE mower. PTO indicator light should glow.



NOTE: Always operate mower at FULL throttle for BEST engine performance and cutting results.

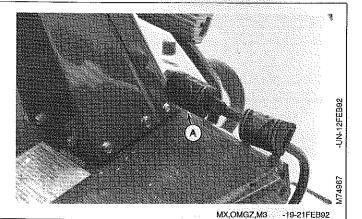
6. Move throttle lever (A) to FAST (rabbit) position.



MX,OMGZ,M2 -19-21FEB92

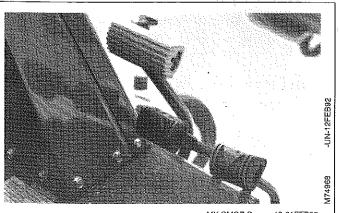
CAUTION: DO NOT mow in reverse unless it is ABSOLUTELY necessary.

7. Push speed control pedal (A) DOWN slowly. Mow at a safe travel speed.



CHOOSE TRAVEL SPEED

- 1. Slow travel:
- Trimming.
- Working in close quarters.
- Mowing tall grass.
- 2. Fast travel:
- Normal mowing on level ground.
- Driving between mowing jobs.

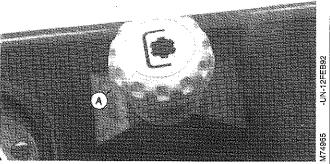


MX,OMGZ,O

DISMOUNTING TO INSPECT MOWER

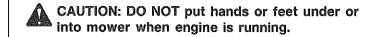
CAUTION: Use the mower step when you mount or dismount the Front Mower. Keep step and platform clean.

- 1. STOP Front Mower.
- 2. LOCK park brake.
- 3. Disengage PTO by pushing PTO knob (A) IN.

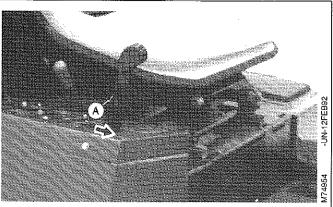


MX,OMGZ,P -19-21FEB92

- 4. Lower mower to ground by moving hydraulic lever (A) all the way forward to FLOAT position.
- 5. STOP engine. Remove key.



6. Wait for mower blades to STOP turning.



MX,OMGZ,P1 -19-21FEB92

MOWING TIPS

Mow at full throttle.

Mow grass when it is dry.

Clean mower deck and chute often.

Mow grass high and often.

Slow down during turns.

Sharpen blades often.

CHECK: Mower rear wheels must be slightly off ground.

CHECK: Mower must be level. (See LEVELING MOWER in this section.)

To mow tall grass:

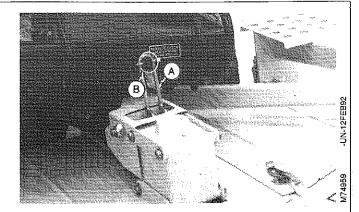
- Mow grass twice: cut grass at half desired height—then cut at desired height.
- Mow at desired height: cut only half cutting width.

MX,OMGZ,Q -19-21FEB92

Operating Mower

AFTER MOWING

- 1. Fasten the service latch (A) to Front Mower frame with lynch pin (B).
- 2. LOCK park brake.
- 3. STOP engine. Remove key.
- 4. Clean under mower deck and drive belt area with water pressure from garden hose.
- 5. Lubricate spindles after cleaning. (See LUBRICATING SPINDLES in Service section.)



-19-21FEB92

Lubrication

19

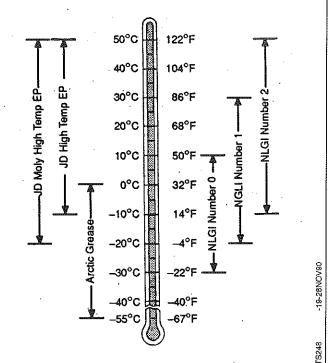
EXTREME PRESSURE OR MULTIPURPOSE GREASE

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,GREA1 -19-15MAR91

GEAR OIL

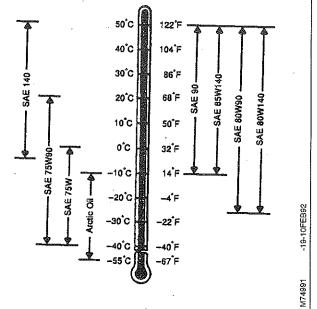
Use oil viscosity based on the expected air temperature range during the period between oil changes.

John Deere GL-5 Gear Lubricant is recommended.

Other oils may be used if they meet one or more of the following:

- API Service Classification GL-5
- Military Specification MIL-L-2105D
- Military Specification MIL-L-2105C
- Military Specification MIL-L-2105B

Oils meeting Military Specification MIL-L-10324A may be used as arctic oils.



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 -19-21FEB92

SERVICE INTERVALS

25 HOURS:

- Lubricate mower PTO (power take off) shaft (3 places).
- Lubricate caster arm pivot bushings and wheels (2 places).
- Lubricate anti-scalp wheels (2 places).
- Lubricate mower blade spindles (3 places).
- Lubricate mower lift pivot (2 places).
- Check tire pressure.
- Check mower blades.

100 HOURS:

- Power wash deck without shields.
- Lubricate mower idler arm pivot.
- Lubricate control cam pivot.
- Check mower drive belt.
- Check mower idler arm stop bolt.

500 HOURS:

• Change mower gearbox oil.

MX.SEGZ.A1 19-21FEB9

Service

CHECKING HARDWARE

All hardware for this mower is metric.

After servicing your mower, MAKE SURE you check the torque for the following bolts and nuts.

Torque hardware to the following specifications:

Hardware Specifications

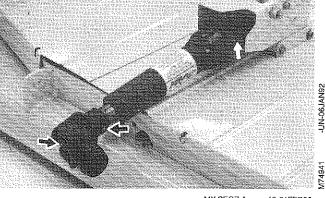
Type of Bolt or Nut	Lb-Ft	N-m
PTO Shaft Bolt	54	73
Blade Bolt	83	113
Gearbox (Bracket) Bolts	54	73
Nuts (Top of Spindle) Right and Left-Hand	121	164
Nuts (Under Side of Mower Deck) All Spindles	37	50
Nut (Idler Stop)	73	100

(SEGZ A2 _19_21EEB

LUBRICATING DRIVELINE

Lubricate each of three points with one or two shots of John Deere multipurpose grease or an equivalent.

NOTE: Mower is removed from Front Mower for this illustration.

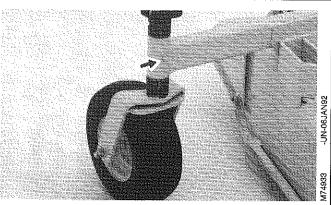


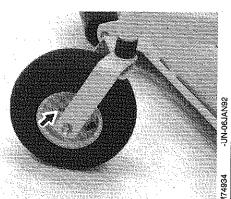
MX,SEGZ,A -19-21FEB92

LUBRICATING FRONT WHEELS

Lubricate front wheel bearing and pivot bushing with one or two shots of John Deere multipurpose grease or an equivalent.

Lubricate front mower wheels with one or two shots of John Deere multipurpose grease or an equivalent.

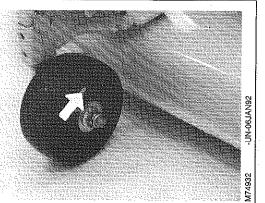




MX,SEGZ,D -19-21FEB92

LUBRICATING REAR WHEELS

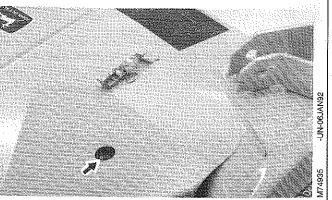
Lubricate rear wheels with one or two shots of John Deere multipurpose grease or an equivalent.



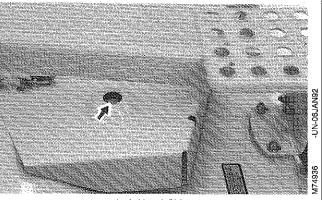
LUBRICATE MOWER SPINDLES (RIGHT AND LEFT-HAND SIDES)

NOTE: Mower deck shields DO NOT have to be removed in order to grease these two spindles.

Lubricate two mower spindles (right and left-hand sides) with one or two shots of John Deere multipurpose grease or an equivalent.



Right-Hand Side



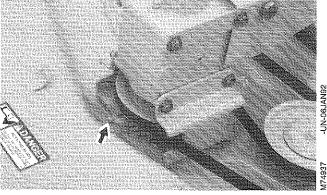
Left-Hand Side

LUBRICATE MOWER SPINDLE (CENTER)

NOTE: Mower deck shields removed for clarity. They DO NOT have to be removed to grease this spindle.

Loosen clips on mowr deck shields and slide apart to provide a gap for lubrication.

Lubricate one mower spindle (center) with one or two shots of John Deere multipurpose grease or an equivalent.

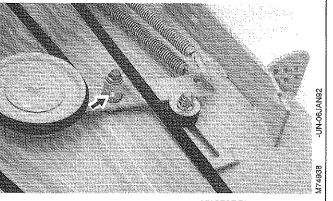


MX,SEGZ,F1 -19-21FEB92

LUBRICATE ARM PIVOT BUSHING

Remove mower deck shields.

Lubricate arm pivot bushing with one or two shots of John Deere multipurpose grease or an equivalent.



MX,SEGZ,F2 -19-21FEB92

22

FASTENING SERVICE LATCH

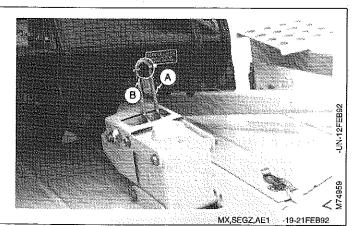


RAISED position: CAUTION: Before you work on mower in a

- Fasten service latch.
- DO NOT drive or transport Front Mower with service latch fastened.
- 1. Put speed control lever in STOP position.
- 2. Raise mower as high as it will go.
- 3. STOP engine.
- 4. LOCK park brake. Remove key.

MX,SEGZ,AE -19-21FEB92

5. Fasten the service latch (A) to Front Mower frame with lynch pin (B).

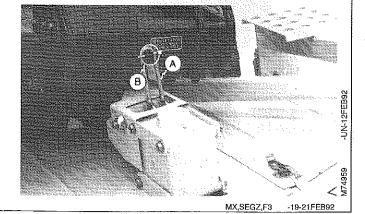


REMOVING BELT SHIELDS

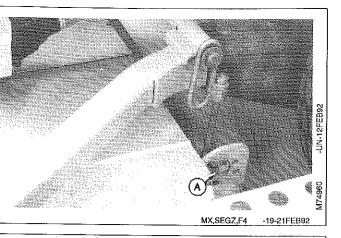


CAUTION: Fasten service latch ONLY when Front Mower is parked for service. DO NOT fasten service latch before driving

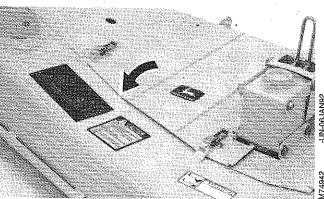
- or transporting.
- 1. Fasten the service latch (A) to Front Mower frame with lynch pin (B).

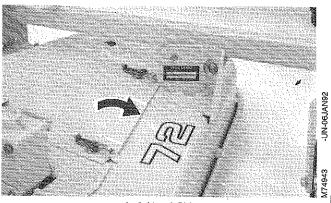


2. Disconnect each rear lift rod by removing spring locking ring (A).



- 3. Open belt shield clips by pulling up on clips.
- 4. Remove right-hand shield from mower.
- 5. Remove left-hand shield from mower.



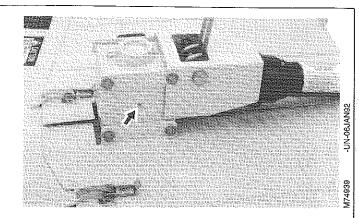


Left-Hand Side

MX,SEGZ,F5 -19-21FEB92

CHECKING GEARBOX OIL LEVEL

- 1. Park Front Mower on a level surface.
- 2. Lower mower to ground.
- 3. STOP engine.
- 4. LOCK park brake. Remove key.
- 5. Remove check plug. Oil should be level with bottom of hole.
- 6. If oil is low, add oil through check plug hole and install check plug and tighten.



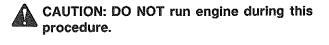
MX,SEGZ,G -19-21FEB92

REMOVING GEARBOX AND CHANGING GEARBOX OIL

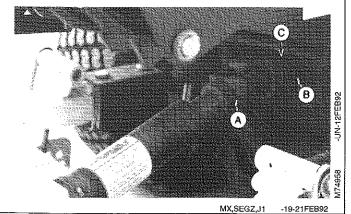
NOTE: Mower is removed from Front Mower for clarity.

- 1. Remove belt shields. (See Removing Belt Shields in this section.)
- 2. Lower mower to ground.

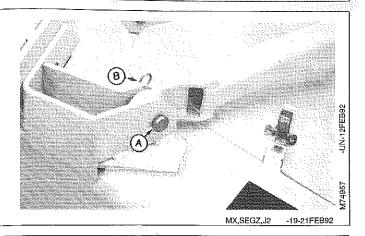
MX,SEGZ,J -19-21FE892



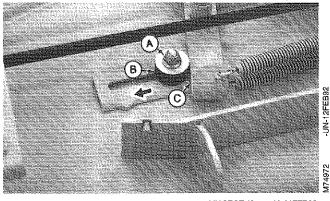
- 3. Disconnect drive line from Front Mower:
- Pull back on coupler (C).
- Pull mower drive line (A) off of Front Mower driveshaft



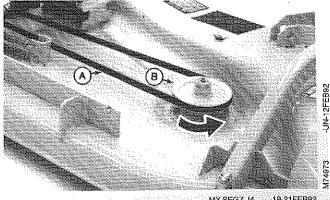
4. Remove each lift arm from mower by removing spring locking pin (B) and drilled pin (A).

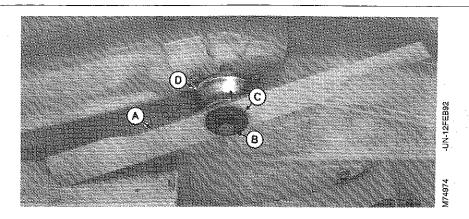


5. Loosen nut (A) on idler stop (B) and move idler stop away from idler bracket (C).



6. Remove mower belt (A) from right-hand sheave (B).



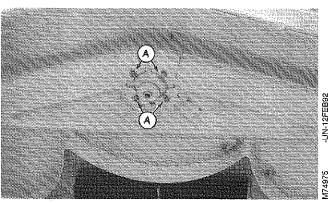




CAUTION: Prevent bodily injury. Blades are sharp and can cut you. Before removing blade (center):

- Wear goggles and gloves and wrap blade with a thick rag.
- Block blade with a board.
- Turn mower over with a safe lifting device.
- 7. Remove blade (A) from center sheave by removing bolt (B) and belleville washer (C).
- 8. Remove trash guard (D).

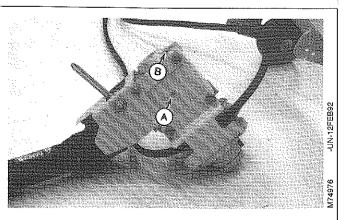
9. Remove four nuts (A) from center sheave and remove gearbox from mower.



MX,SEGZ,J6 -19-21FEB92

NOTE: Put a drain pan under gearbox to prevent spillage.

- DO NOT discard check plug or pipe plug.
- 10. Remove check plug (A) (right-hand side) and pipe plug (B).
- 11. Drain oil from gearbox by tipping gearbox on its side.
- 12. Fill gearbox with John Deere multipurpose grease or an equivalent until grease starts seeping out of check plug hole.
- 13. Install check plug and pipe plug (removed above) and tighten plugs.



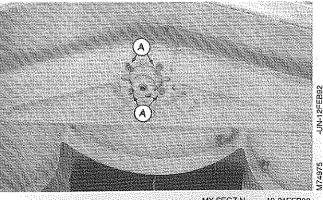
MX,SEGZ,J7 -19-21FEB92

- 14. Install gearbox back on mower. (See Installing Gearbox in this section.)
- 15. Install mower belt back on mower. (See Installing Mower Belt in this section.)
- 16. Install mower belt shields. (See Installing Mower Belt Shields in this section.)

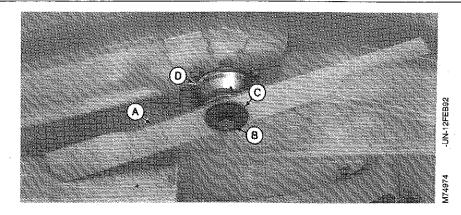
MX,SEGZ,J8 -19-21FEB92

INSTALLING GEARBOX

1. Put gearbox on mower deck and install four nuts (A) on under side of mower deck. Tighten nuts to 37 lb-ft (50 N·m).



MX,SEGZ,N -19-21FEB92



CAUTION: Prevent bodily injury. Blades are sharp and can cut you. Before installing blade (center):

- Wear goggles and gloves and wrap blade with a thick rag.
- Block blade with a board.
- Turn mower over with a safe lifting device.

2. Install trash guard (D).

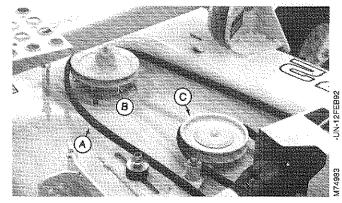
NOTE: Belleville washer MUST BE installed with cupped edge toward blade.

- 3. Install blade (A), believille washer (C) and bolt (B).
- 4. Tighten bolt to 83 lb-ft (113 N·m).

MX,SEGZ,N1 -19-21FEB92

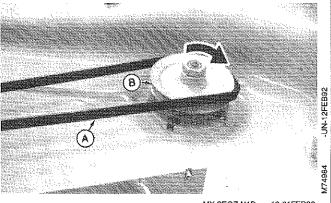
NOTE: MAKE SURE mower belt is placed between idler stop and spindle sheave.

5. Install mower belt (A) on spindle sheaves (B) and (C).



MX,SEGZ,N1A -19-21FEB92

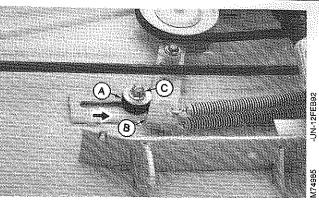
6. Install mower belt (A) on right-hand sheave (B).



MX,SEGZ,N1B -19-21FEB92

7. Move idler stop (A) against idler bracket (B) and tighten nut (C) to 73 lb-ft (100 N·m).

8. Install mower belt shields. (See Installing Belt Shields in this section.)



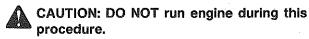
MX,SEGZ,N1C -19-21FEB92

REMOVING MOWER BELT

NOTE: Mower is removed from Front Mower for clarity.

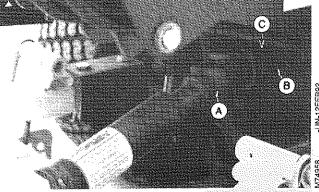
- 1. Remove belt shields. (See Removing Belt Shields in this section.)
- 2. Lower mower to ground.

MX,SEGZ,Y -19-21FEB92



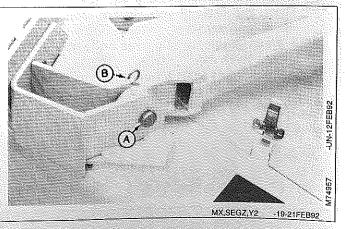
3. Disconnect drive line from Front Mower:

- Pull back on coupler (C).
- Pull mower drive line (A) off of Front Mower driveshaft

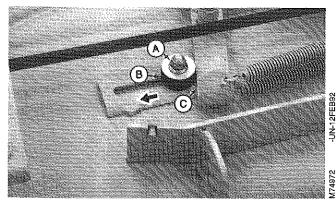


MX,SEGZ,Y1 -19-21FEB92

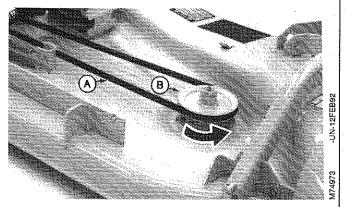
4. Remove each lift arm from mower by removing spring locking pin (B) and drilled pin (A).



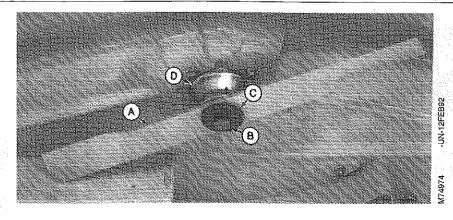
5. Loosen nut (A) on idler stop (B) and move idler stop away from idler bracket (C).



6. Remove mower belt (A) from right-hand sheave (B).

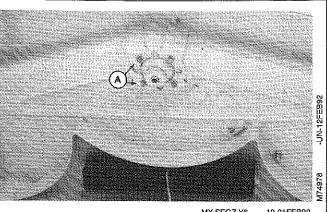


MX,SEGZ,Y4 -19-21FEB92



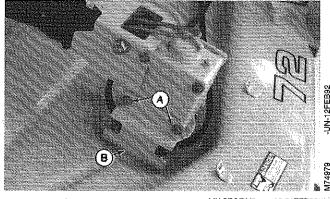
- CAUTION: Prevent bodily injury. Blades are sharp and can cut you. Before removing blade (center):
 - Wear goggles and gloves and wrap blade with a thick rag.
 - Block blade with a board.
 - Turn mower over with a safe lifting device.
- 7. Remove blade (A) by removing bolt (B) and belleville washer (C).
- 8. Remove trash guard (D).

9. Remove two nuts (A) from under side of mower deck.

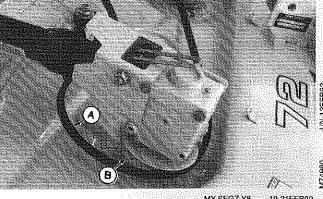


MX,SEGZ,Y6 -19-21FEB92

10. Remove two bolts (A) from gear box bracket (B) and remove bracket.



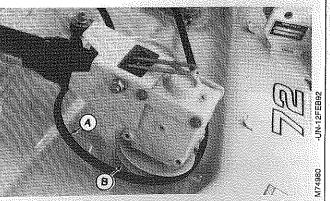
- 11. Remove mower belt (A) from center spindle sheave
- 12. Install new belt. (See Installing Belt in this section.)



MX,SEGZ,Y8 -19-21FEB92

INSTALLING MOWER BELT

1. Put mower belt (A) on center sheave (B).

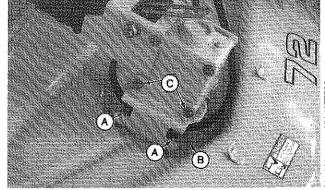


MX,SEGZ,X1 -19-21FEB92

MX,SEGZ,Y5 -19-21FEB92

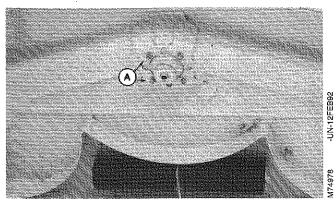
32

- 2. Put two carriage bolts (A) (which remained with gearbox bracket when removed) through bottom of center sheave (B).
- 3. Install two hex head bolts (C) in gearbox bracket. Tighten bolts to 54 lb-ft (73 N·m).



MX,SEGZ,X2 -19-21FEB92

4. Install two nuts (A) to under side of mower deck. Tighten nuts to 37 lb-ft (50 N-m).



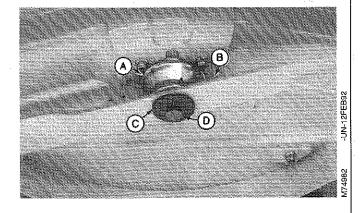


CAUTION: Prevent bodily injury. Blades are sharp and can cut you. Before installing blade (center):

- Wear goggles and gloves and wrap blade with a thick rag.
- Block blade with a board.
- Turn mower over with a safe lifting device.
- 5. Install trash guard (A).

NOTE: Belleville washer MUST BE installed with cupped edge toward blade.

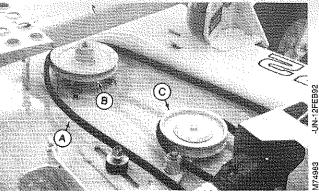
6. Install blade (B), belleville washer (C) and bolt (D). Tighten bolt to 83 lb-ft (112 N·m).



MX,SEGZ,X4 -19-21FEB92

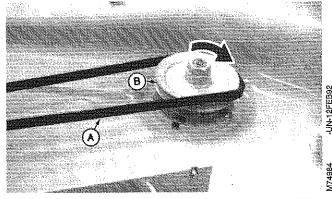
NOTE: MAKE SURE mower belt is placed between idler stop and spindle sheave.

7. Install mower belt (A) on spindle sheaves (B) and (C).



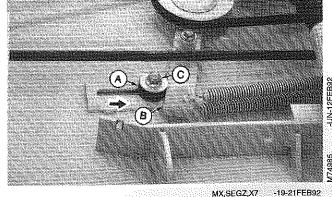
MX,SEGZ,X5 -19-21FEB92

8. Install mower belt (A) on right-hand sheave (B).



MX,SEGZ,X6 -19-21FEB92

- 9. Move idler stop (A) against idler bracket (B) and tighten nut (C) to 73 lb-ft (100 N·m).
- 10. Install mower belt shields. (See Installing Belt Shields in this section.)

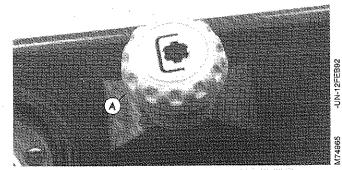


- 11. Install lift arms on mower. (See Installing Lift Arms in this section.)
- 12. Connect driveline to Front Mower. (See Connecting Driveline in this section.)
- 14. Install mower belt shields. (See Installing Belt Shields in this section.)
- 13. Raise mower by moving hydraulic lever all the way rearward to LIFT position.
- 15. Connect rear lift rods to mower deck.

MX,SEGZ,N4 -19-21FEB92

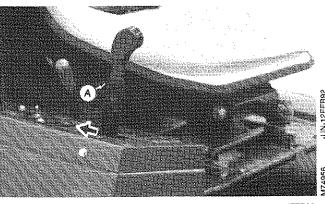
CHECKING BLADES AND/OR REMOVING **BLADES**

- 1. Park Front Mower on level surface.
- 2. Push PTO knob (A) DOWN to DISENGAGE mower.



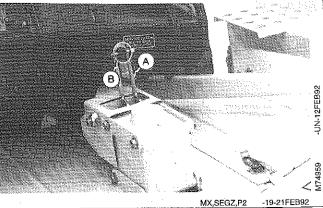
MX,SEGZ,P -19-21FEB92

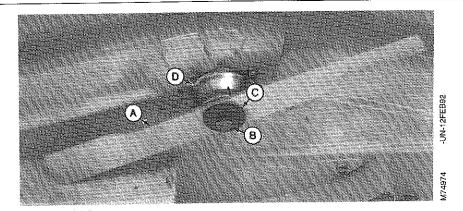
- 3. Pull hydraulic lever (A) all the way rearward to LIFT position.
- 4. STOP engine.
- 5. LOCK park brake.
- 6. Remove key.



MX,SEGZ,P1 -19-21FEB92

- 7. Fasten the service latch (A) to Front Mower frame with lynch pin (B).
- 8. Block deck.





CAUTION: Prevent bodily injury. Blades are sharp and can cut you. Before removing blade(s):

- Wear goggles and heavy gloves.
- Wrap blade with a thick rag.
- Block blade with a board.
- Turn mower over with a safe lifting device.
- 9. Inspect each blade (A) for sharpness and damage.
- 10. If blade(s) are damaged or dull, remove bolt (B), and belleville washer (C).
- 11. Remove blade(s).
- 12. Install new blade(s). (See Installing Mower Blade(s) in this section.)

SHARPENING BLADES

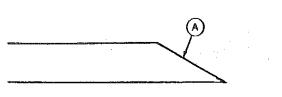


CAUTION: Blades are sharp and can cut you. When you sharpen blades, wear goggles and gloves and wrap blade with a thick rag.

- Balance blade after you sharpen it. (See BALANCING BLADES in this section.)
- Replace damaged blades immediately.

Sharpen blades with grinder, hand file or electric blade sharpener.

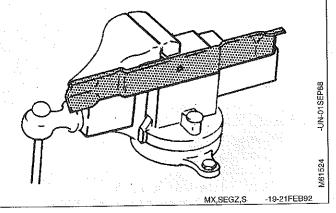
Keep original bevel (A) when you grind.



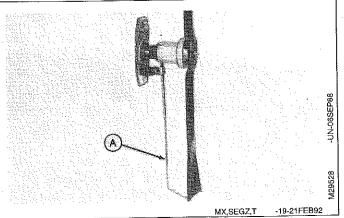
MX,SEGZ,R -19-21FEB92

BALANCING BLADES

- 1. Clean blade.
- 2. Put blade on nail in vise OR on vertical wall stud. Turn blade to HORIZONTAL position.
- 3. If blade is not balanced, heavy end will drop.
- 4. Grind bevel of heavy end. DO NOT change blade bevel.



- 5. Adjust balancer track (A) to just miss blade tip.
- 6. Turn blade to opposite tip.
- 7. If difference between blade tip and balancer track measures more than 1/16-in. (1.5 mm), install a new blade.



INSTALLING BLADES



CAUTION: Blades are sharp and can cut you.

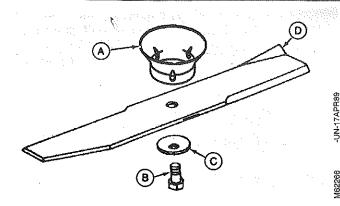
- Before installing blades, wear goggles and gloves and/or wrap blade with rag.
- Block blade with board.
- Turn mower over with safe lifting device.
- 1. Clean trash guard (A).

IMPORTANT: Blade wing (D) MUST BE toward top of mower.

2. Install cap screw (B), through believille washer (C), blade and trash guard.

IMPORTANT: MAKE SURE belleville washer is installed as shown. (Cupped upward.)

3. Tighten cap screw to 83 lb-ft (113 N·m).



MX,SEGZ,U -19-21FEB92

CHECKING FOR BENT BLADE

Lower mower. Measure distance between blade tip and flat ground surface.

Turn blade 180°. Measure distance between other blade tip and flat ground surface.

If the difference between the two distances is more than 1/16-in. (1.5 mm), install a new blade.



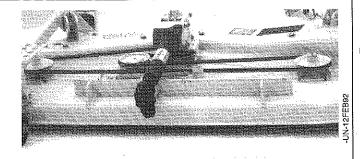
MX,SEGZ,V -19-21FEB92

INSPECT BELT AND ADJUST IDLER ARM STOP

- 1. Park the mower on a hard level surface.
- 2. Fasten service latch to Front Mower frame. (See Fastening Service Latch in this section.)
- 3. Remove belt shields. (See Removing Belt Shields in this section.)

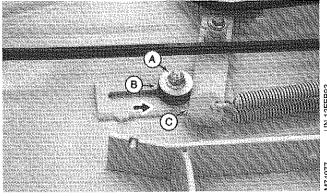
IMPORTANT: Clean the belt with a damp cloth. DO NOT use a solvent or belt dressing.

- 4. If belt is in good condition, clean belt, sheaves and deck.
- If belt is worn or damaged, replace belt. (See REPLACING BELT in this section.) Replace or repair parts that cause wear.



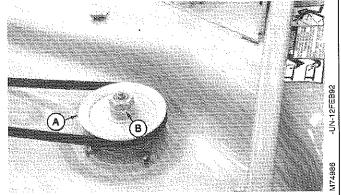
MX,SEGZ,W1 -19-21FEB92

- 5. Loosen nut (A) on idler arm stop (B).
- 6. Move idler arm stop up against idler arm bracket (C).
- 7. Tighten idler arm stop nut to 73 lb-ft (100 N·m).
- 8. Install belt shields. (See Installing Belt Shields in this section.)

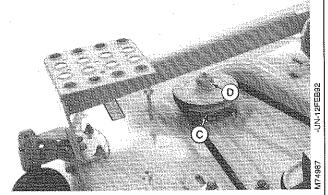


REMOVING IDLER AND SPINDLE SHEAVES

- 1. Remove right-hand spindle sheave (A) by removing lock nut (B).
- 2. Remove left-hand spindle sheave (C) by removing lock nut (D).



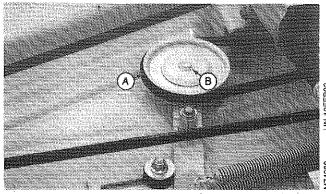
Right-Hand Spindle



Left-Hand Spindle

MX,SEGZ,AG -19-21FEB92

3. Remove one idler sheave (A) by removing bolt and



MX,SEGZ,AG1 -19-21FEB92

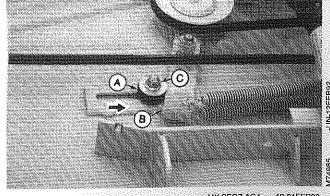
- 4. Order new idler and spindle sheaves from your John Deere dealaer.
- 5. Install two spindle sheaves and fasten with lock nuts removed in Steps 1 and 2. Tighten lock nuts to 121 lb-ft (164 N·m).
- 6. Install one idler sheave and fasten with bolt and lock nut removed in Step 3. Tighten bolt to 39 lb-ft (53 N·m).

MX,SEGZ,AG3 -19-21FEB92

- 7. Check idler stop (A). MAKE SURE it is tight against idler bracket (B). If not:
- Loosen nut (C).

lock nut (B).

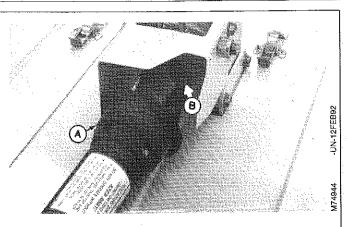
- Move idler stop against idler bracket.
- Tighten nut to 73 lb-ft (100 N·m).



MX,SEGZ,AG4 -19-21FEB92

REMOVING PTO SHAFT

- 1. Remove PTO shaft (A) on gearbox by removing M10 x 50 bolt (B).
- 2. Remove key from slot in gearbox shaft.
- 3. Coat shaft with John Deere multipurpose lubricant or equivalent.
- 4. Install key (removed above) in slot in gearbox shaft.
- 5. Install PTO shaft on gearbox and fasten with M10 x 50 bolt (removed above).
- 6. Tighten bolt to 54 lb-ft (73 N·m).



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Troubleshooting

TROUBLESHOOTING

DISCHARGE CHUTE PLUGGED:

- Check belt to make sure it is installed correctly.
- Mow grass only when dry.
- Raise cutting height and mow grass twice.
- Check engine and PTO speed.
- Mow at full throttle.

PATCHES OF GRASS UNCUT:

- Mow at full throttle.
- Slow down.
- Sharpen or replace blades.
- Check engine and PTO speed.
- · Replace tension spring.

EXCESSIVE VIBRATION:

- Remove trash from sheaves and deck.
- Replace drive belt.
- Replace sheaves.
- Balance blades.

BLADES SCALPING GRASS:

- Raise cutting height.
- Slow down when you turn.
- Change mowing pattern.
- Adjust mower wheels.
- Check tractor tire inflation.

UNEVEN CUT:

- Level mower.
- Slow down.
- Sharpen blades.
- Adjust mower wheels.

MOWER LOADS DOWN FRONT MOWER:

- Mow at full throttle.
- Slow down.
- Remove trash from mower spindles.

BELT SLIPPING:

- Remove trash from mower spindles and sheaves.
- Install or replace idler spring.

BELT COMES OFF:

Adjust idler stop.

NOISY GEARBOX:

• Check oil level in gearbox. Add oil if needed.

FRONT MOWER VIBRATES:

- Replace belts.
- Repair or replace sheave.
- Clean sheaves and belt with a damp cloth.

MOWER DROPS TOO FAST:

• Install orifice kit or weight transfer valve. (See your John Deere dealer.)

MX,TSGZ,A -19-30OCT91

Storage

STORING THE MOWER

Park Front Mower in area you plan to store the

Raise mower as high as it will go.

STOP engine. Remove key.

Fasten service latch to Front Mower frame.

Remove blades.

Clean the underside of the mower.

Sharpen blades or install new blades.

Remove both belt shields. Lubricate grease points under shields, and idler arm pivot.

Clean belt area and top of deck.

Check condition of belt. Install new belt, if necessary. DO NOT tighten idler arm stop in place.

Install shields.

Disconnect service link.

Lower mower to ground.

Remove mower. (See REMOVING MOWER in Removing Mower section.)

Check gearbox oil level.

Repair or replace worn or damaged parts.

Check all hardware for proper torque.

Apply touch-up paint where needed to prevent rust.

Lubricate spindles and driveline grease points. Six total.

Put a waterproof cover over mower, when storing mower outside.

MX,STGZ,A -19-21FEB92

Assembly

IDENTIFY PARTS

Following is in Box of Parts:

- Mower Deck
- (2) Front Wheels
- Front Wheel Arm
- Bag of Parts*

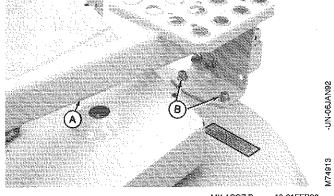
NOTE:*Located under mower deck shields.

Following is in Bag of Parts:

- Pin Guard (2)
- Lynch Pin (2)
- Lift Pin (2)
- Caster Spacer (12)
- Locking Ring (4)
- M10 x 1.50 x 30 Bolt (2)
- M12 x 1.75 x 35 Bolt (2)
- M10 x 1.50 Lock Nut (2) M12 x 1.75 Lock Nut (2)
- 1.016 x 1.50 x .075 Washer (2)

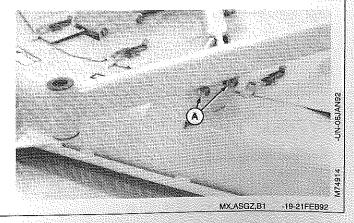
INSTALL LEFT-FRONT WHEEL ARM

1. Put left-front wheel arm (A) on rear of mower deck and fasten with two M10 x 1.50 x 30 round-head bolts, and lock nuts (B).



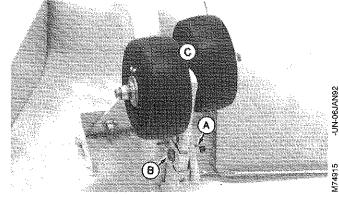
MX,ASGZ,B -19-21FEB92

- 2. Attach other end of left-front wheel arm to bracket on front of mower deck with two M12 x 1.75 x 35 bolts, and lock nuts (A).
- 3. Tighten nuts.



INSTALL REAR WHEELS

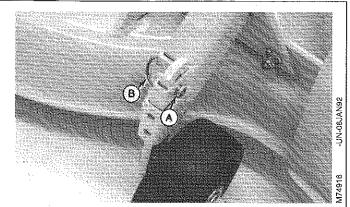
1. Remove nut (A), bolt (B) and rear wheels (C). Discard nut and bolt.



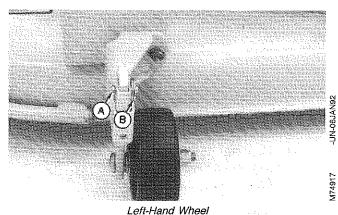
MX,ASGZ,C -19-21FEB92

MX,ASGZ,D -19-21FEB92

- 2. Fasten right rear wheel in arm bracket with drilled pin (A) and spring locking ring (B).
- 3. Fasten left rear wheel in arm bracket with drilled pin (A) and spring locking ring (B).

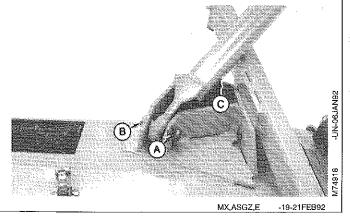


Right-Hand Wheel



REMOVE LIFT ARMS

- 1. Remove spring locking pin (A) and drilled pin (B) from lift arm (C).
- 2. Repeat Step 1 for the other lift arm.
- 3. Remove lift arms from mower. Set arms aside until installing mower on Front Mower. (See INSTALLING LIFT ARMS in Installing Mower section.)

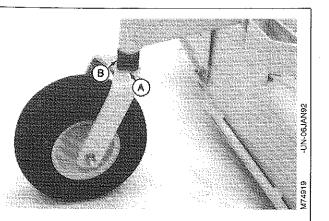


INSTALL FRONT WHEELS

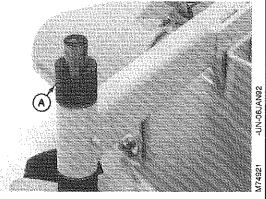
1. Remove yellow protective covering from front wheelvertical shaft.

NOTE: Put a small dab of grease on vertical shaft for ease of sliding shaft in front wheel arm.

- 2. Slide one washer (A), and three spacers (B) on front wheel vertical shaft.
- 3. Slide vertical shaft in front wheel arm.

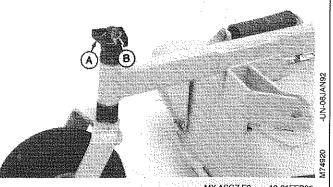


4. Slide three more spacers (A) on vertical shaft.



MX,ASGZ,F1 -19-21FEB92

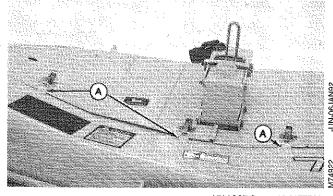
- 5. Slide pin guard (A) on vertical shaft, and fasten with lynch pin (B).
- 6. Lubricate pivot bushing with John Deere multipurpose grease or an equivalent.
- 7. Repeat Steps 1—6 for other front wheel.



MX,ASGZ,F2 -19-21FEB92

ADJUST BELT SHIELDS

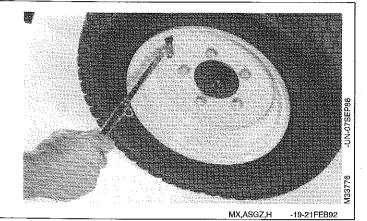
If shields are loose, bend brackets to tighten shields.



MX,ASGZ,G -19-21FE892

CHECK FRONT MOWER TIRE PRESSURE

Check Front Mower operator's manual or decal located under hood of Front Mower for correct tire pressure for the mower you are using.



Specifications

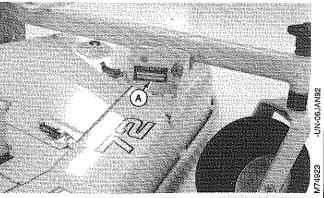
MOWER SPECIFICATIONS

Front Mower Required	F1145 (Four Wheel Drive)
Cutting Width	
Blade Length	
	John Deere Gearbox "B" Section Belt/Automatic Tension
Spindles	
Cutting Height	1.5—4.5 in. (39—115 mm)
Deck Offset	
Front	
Discharge Chute	Hinged-Right
Deck Thickness	0.156 in. (4 mm)
Weight (Approximate)	440 lb. (198 kg)
Caster Wheels	
(Specifications and design subject to change	without notice.) MX,SPGZ,A -19-20FEB92

MOWER SERIAL NUMBER

Write your mower serial number (A) below. Your John Deere dealer needs this number when you order parts.

Serial Number _



MV SDG7 9 10 315500

Index

Page

Grease Extreme pressure and multipurpose 19

Index-1

John Deere Service Literature Available

ORDERING LITERATURE

To order catalogs, manuals, or booklets described below, use the form that follows.

MX,ORDER -19-19JUN91

KNOW-HOW BOOKLETS

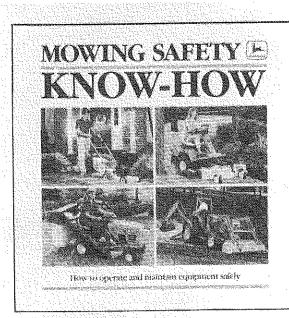
The four KNOW-HOW BOOKLETS are free and provide many helpful tips for landscaping, lawn care, gardening, and safety. To order booklets, use the form that follows, or see your John Deere dealer for free copies.

The LANDSCAPING AND RECYCLING KNOW-HOW BOOKLET tells you how to develop an attractive and balanced landscape and how to recycle lawn clippings and leaves.

The LAWN CARE KNOW-HOW BOOKLET tells you how to mow, water, feed, and dethatch a lawn to keep it beautiful.

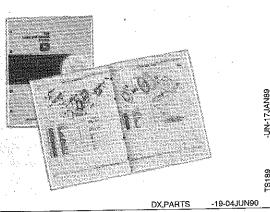
The VEGETABLE GARDENING KNOW-HOW BOOKLET has tips for planting, preparing a seedbed, caring for your garden, and composting.

The MOWING SAFETY KNOW-HOW BOOKLET tells you how to operate and maintain your mowing equipment safely.



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.

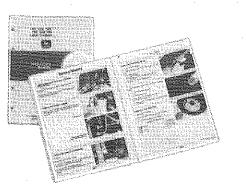


John Deere Service Literature Available

OPERATOR'S MANUAL

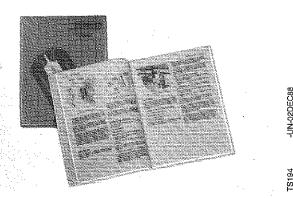
The operator's manual provides safety, operating, maintenance, and service information about John Deere machines.

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



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.



John Deere Service Literature Available

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John Deere Distribution Service Center							
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Parts Catalog	1	C2350 MM113012 B2	\$	1.25	X		
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EOS Manual—Hydraulics		FCP82101B	\perp	12.95	X X	=	
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MasterCard Discover Visa American Express	50.00 t	o 99.99	7.50				
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John Deere Service Keeps You On The Job



John Deere is at your service when you need it

CUSTOMER SATISFACTION is important to John Deere. We take pride in providing superior service. We'll be around when you need us:

- We maintain a large and varied parts inventory to help minimize downtime.
- Precision tools and testing equipment enable our dealerships to locate and correct troubles.
- We hold regular training schools for service technicians so they know your equipment and how to
- Our goal is to provide prompt, efficient service through competent dealerships.

COMPLAINT-RESOLUTION PROCEDURE

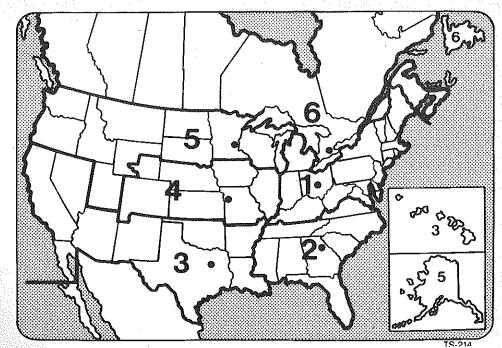
Your dealer is the best and fastest source to solving any problems you may experience with your product.

- 1. Be prepared with the following information:
- > Machine model and product identification number
- > Date of purchase
- > Nature of problem
- 2. Discuss the problem with the service manager.
- 3. If unable to resolve, see the dealership manager, explain the problem and request assistance.
- 4. If you have a persistent problem that your dealership is unable to satisfy, ask your dealer to contact the John Deere area service manager for resolution.
- 5. If a problem is not resolved to your satisfaction, contact the appropriate John Deere sales branch for your area and ask to speak with the branch division service manager. (See the map below.)

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

- 3. JOHN DEERE COMPANY 10650 Hines Boulevard Dallas, TX 75220-2635
- 4. JOHN DEERE COMPANY 3210 East 85th Street Southeast Station Kansas City, MO 64132-2586
- 5. JOHN DEERE COMPANY 2001 West 49th Street Bloomington, MN 55431-3211 612-887-6200
- 6. JOHN DEERE COMPANY South Service Road at Hunter Grimsby, Ontario, Canada L3M 4H5 416-945-9281



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