

John Deere

MODEL:

**100 Lawn Tractor and
34 Rotary Mower**

**OPERATOR'S
MANUAL**



JENSALES.COM

or Call 800-443-0625

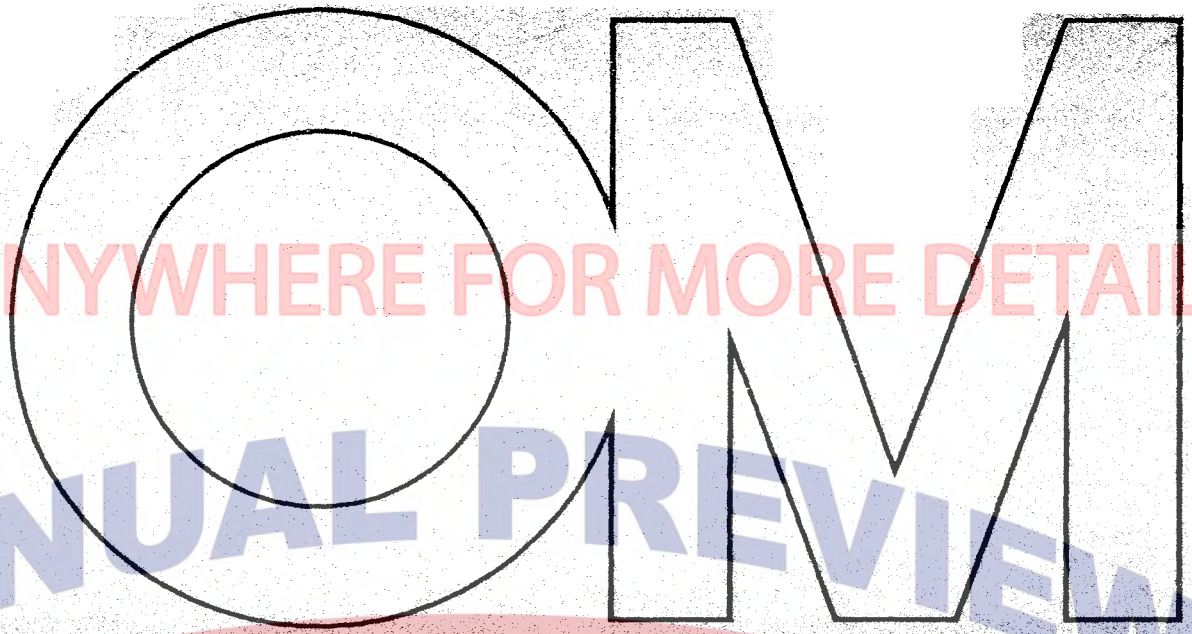


THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
JOHN DEERE OR IT'S SUCCESSORS. JOHN DEERE AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

JD-O-OMM81274

CLICK ANYWHERE FOR MORE DETAILS



MANUAL PREVIEW

**Operator's
Manual**

**John Deere
100 Lawn Tractor and
34 Rotary Mower**

purchase full manual at

JENSALES.COM
or Call 800-443-0625

**OM-M81274
Issue 16**

CLICK ANYWHERE FOR MORE DETAILS

CLICK ANYWHERE FOR MORE DETAILS

Contents

	Page
READ SAFETY PRECAUTIONS	Inside Front Cover
KNOW THIS MANUAL	1
CONTENTS	2
PREPARE TRACTOR-MOWER	3-5
OPERATE TRACTOR-MOWER	6-10
SERVICE INTERVAL CHART	11
LUBRICATE TRACTOR	12-14
TROUBLE SHOOTING	15-16
MAINTAIN TRACTOR-MOWER	17-25
STORE TRACTOR-MOWER	26
REMOVE MOWER	27-28
REINSTALL MOWER	29-30
SPECIFICATIONS	31-32

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

Prepare Tractor-Mower

Prepare the tractor-mower as outlined below and on the following pages before operating it.

Adjust Mower Height of Cut

CAUTION: Before adjusting or servicing the tractor-mower, be sure power to mower is disengaged and tractor engine has been shut off. Be sure mower blades have stopped turning. For added safety, remove the tractor ignition key and disconnect the spark plug wire from the spark plug.

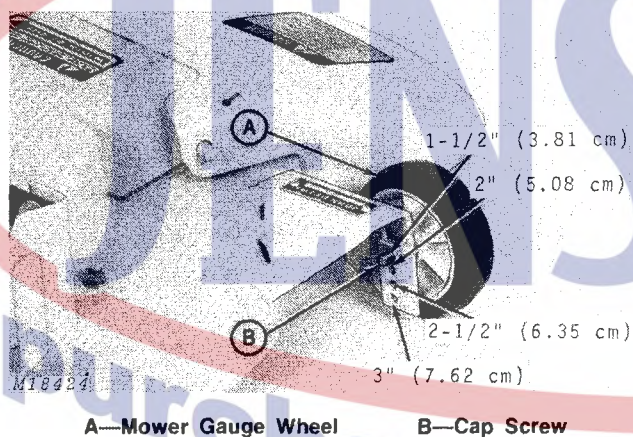
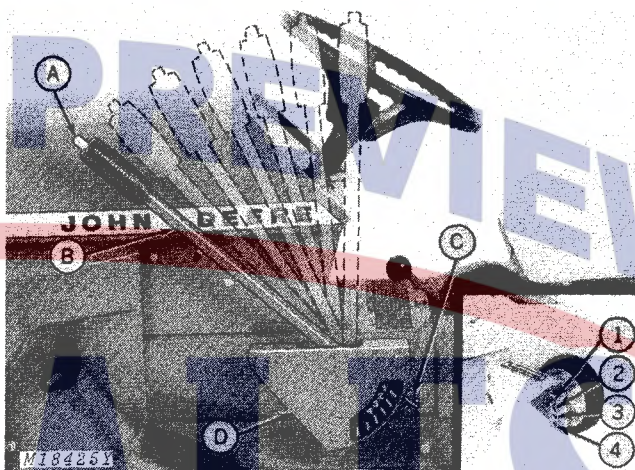


Figure 2

Approximate grass cutting height is shown above for each gauge wheel position. Remove cap screw (B) securing mower gauge wheel (A) and re-attach gauge wheel in desired cutting height position.

Ground conditions, as well as height at which mower is carried on the lift lever, will alter final cutting height. Exact cutting height can be determined only by mowing a small area and measuring height of grass.

After mower gauge wheels have been adjusted to the desired cutting height refer to Figure 3. Press thumb release (A) and move lift lever (B) all the way rearward to raise the mower to its highest (transport) position. Next, move lift lever stop (C) in quadrant (D) to the corresponding gauge wheel cutting height position as shown in the in-



A—Thumb Release
B—Lift Lever

C—Lift Lever Stop
D—Quadrant

Figure 3

set above. Numbers 1, 2, 3, and 4 on the quadrant correspond with mower gauge wheel positions 1, 2, 3, and 4. With both the lift lever stop and gauge wheels in No. 1 position, the mower is properly adjusted for shortest grass cutting. Positions 2, 3, and 4 will cut grass higher.

NOTE: To move lift lever stop, pull it downward away from quadrant until it is free of detent behind quadrant. Then pivot stop into desired detent and release.

IMPORTANT: Positioning lever and gauge wheels as indicated above allows some of the mower weight to be carried on the tractor. This means that the gauge wheels will not necessarily touch the ground when positioned as described above.

Check Tractor Tire Inflation

Before leveling the mower, inflate both rear tractor tires to 6 pounds-per-square-inch (psi) or 41 kilopascals (kPa). Inflate both front tires to 12 psi (82 kPa). Use a low pressure tire gauge, available from your John Deere dealer.

4 Prepare Tractor-Mower

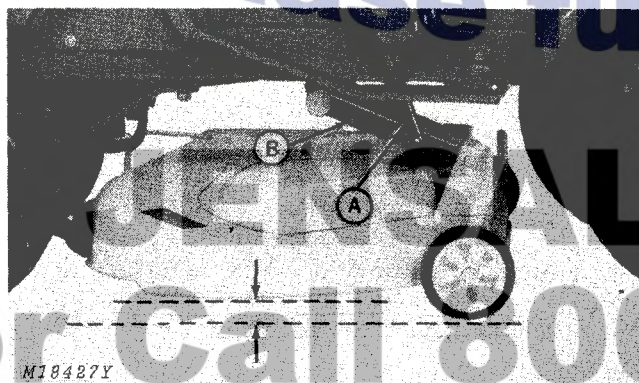
Level the Mower

Be sure to level the mower at the beginning of each mowing season or whenever the mower has been removed and reinstalled on the tractor. Follow the outlined procedure below when leveling the mower.



Figure 4-Chute Guard Raised for Clarity

1. Park tractor-mower on a hard flat surface such as a driveway, sidewalk or garage floor. Shut off engine and remove spark plug wire from spark plug.
2. Inflate rear tires to exactly 6 pounds-per-square-inch (psi) or 41 kilopascals (kPa). Inflate front tires to 12 psi (82 kPa). Check inflation with a low pressure gauge.
3. Check to be sure mower gauge wheels are both in the same adjusting hole. They can be in any one of the four holes but they must be in identical positions.
4. Raise mower with lift lever on tractor until gauge wheels are off the ground.



A—Adjustable Yoke

B—Left Rear Draft Link

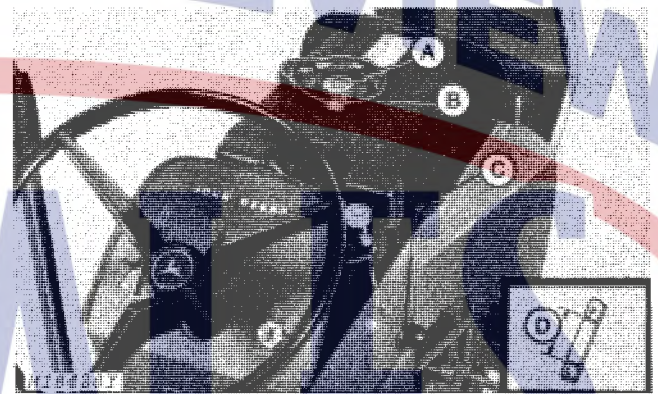
Figure 5

5. When properly leveled, distance (dashed lines) will be equal on each side of the mower as shown in Figures 4 and 5 above.

NOTE: To check for proper leveling, rotate blades so they point straight sideways. Measure distance of blade tips from ground. Distance should be equal on each side of mower.

If adjustment is required, disconnect adjustable yoke (A) from left rear draft link (B). Loosen jam nut and turn yoke up to raise or down to lower left-hand side of mower until left-hand dimension is exactly the same as right-hand dimension. Tighten jam nut firmly against yoke after adjusting.

Fill Tractor Gas Tank



A—Gasoline Filler Cap
B—Spill Tray

C—Oil Level Dipstick Cap
D—Safe Range

Figure 6

CAUTION: Never fill gas tank when engine is running or hot. Always stop engine and allow it to cool before filling gas tank. Never smoke when filling gas tank. Never touch battery with gas can, hose nozzle or other metal objects when refueling.

Raise the tractor hood and wipe dust and dirt from around the gasoline filler cap (A) and spill tray (B). Remove gasoline filler cap and fill gas tank with fresh regular grade or non-leaded gasoline having an octane rating of 85 or higher. DO NOT use premium, ethyl, or white gasoline. Never use special additives such as carburetor cleaners, de-icers, or moisture-removing liquids in your gasoline.

IMPORTANT: Do not mix oil with gasoline. Be sure fuel and fuel containers are clean.

Check Crankcase Oil Level

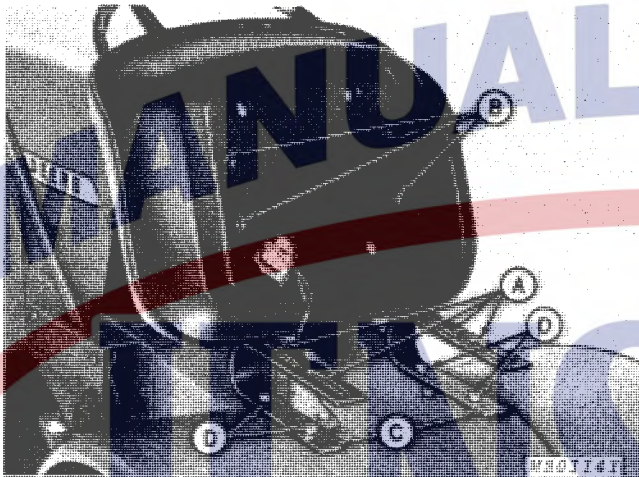
Park the tractor on a level surface and raise the hood. Wipe dust and dirt from around the oil level dipstick cap (C) before removing it. The oil level should be at the "F" mark on the dipstick when the dipstick is installed and the cap is screwed down tight. Do not overfill. Refer to page 12 for recommended oils.

IMPORTANT: Change oil after the first five hours of operation. Refer to page 12.

Check Air Cleaner Element

Check to be sure air cleaner element on the carburetor is clean. Refer to page 19 for instructions to clean air cleaner element.

Adjust Position of Seat



A—Seat Spring
B—Cap Screws

C—Lower Part of Spring
D—Bolts

Figure 7

The upper part of the tractor seat spring (A) is slotted to permit forward or rearward adjustment of the seat.

Loosen the four cap screws (B) and slide seat to desired position. Tighten cap screws securely.

More leg room can be obtained by moving the lower part of the spring (C) 1-1/2 inches (38.10 mm) to the rear. Remove the four bolts (D) attaching the lower part of the spring and install them in the rear set of holes in the tractor deck.

Install Mower Extra Equipment

The anti-wrap guard is useful when mowing in tall weeds or vines. The leaf mulcher plate is useful for mulching fallen leaves.

Anti-Wrap Guard

Refer to page 27 and remove the mower from the tractor.

Remove the deck cover and deck drive belt as shown on page 24.



Figure 8

1. Remove blade from the spindle.
2. Remove the nuts and lock washers holding spindle bearing to deck. Discard the lock washers.
3. Place anti-wrap guard on bolts and tighten in place securely with original nuts. There should be 1/32 to 1/16-inch (0.79 mm to 1.59 mm) clearance between the spindle and knives. If necessary, bend knives as required to obtain clearance.
4. Replace mower blade. Be sure blade does not strike end of knives. Grind off knives if necessary.
5. Replace deck drive belt and deck cover.

Leaf Mulcher Plate

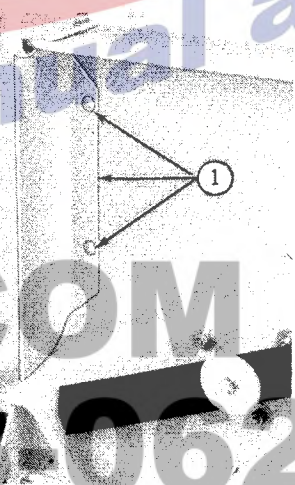


Figure 9

1. Bolt leaf mulcher plate to bottom of mower deck with two 1/4 x 1/2-inch carriage bolts and two 1/4-inch wing nuts as shown above.

Now that your tractor-mower is properly prepared. Turn to the next page and identify the controls before operating the tractor-mower.

Operate Tractor-Mower

Pre-Operation Inspection

Review this Operator's Manual thoroughly. Be familiar with all components of the 100 Tractor and 34 Rotary Mower before use. Be certain the mower is properly adjusted and the tractor is properly serviced as explained on page 3 through 5.

CAUTION: Do not operate the tractor-mower with guards or shields removed. Stop tractor engine and make sure mower blades have stopped turning before adjusting or servicing the tractor-mower.

Identify Controls

IMPORTANT: Tractor safety switches prevent mower blades from turning as engine is started. The engine will not start unless the PTO clutch control lever is disengaged and the transaxle shift lever is in neutral position. This is a dual safety feature.



A—Lift Stop
B—Lift Lever
C—Clutch Pedal
D—Throttle-Choke Lever
E—Steering Wheel

F—Brake Pedal
G—Parking Brake Knob
H—PTO Clutch Control Lever
I—Ignition Key Switch
J—Transaxle Shift Lever

Figure 10

Lift Stop

The lift stop (A) limits how far the mower or other mounted equipment can be lowered.

Lift Lever

The lift lever (B) is used to raise and lower the mower and other mounted equipment.

Clutch Pedal

The clutch pedal (C) engages and disengages power to the transaxle.

Throttle-Choke Lever

The throttle-choke lever (D) regulates engine speed and is used for cold starting.

Steering Wheel

The steering wheel (E) is used to steer and maneuver the tractor.

Brake Pedal

The brake pedal (F) is used to stop tractor movement.

Parking Brake Knob

The parking brake knob (G) keeps the brake pedal depressed (engaged) when tractor is parked.

PTO Clutch Control Lever

The PTO clutch control lever (H) is used to engage and disengage the mower or other power-driven equipment drive.

Ignition Key Switch

The ignition key switch (I) is used to start and stop the tractor engine.

Transaxle Shift Lever

The transaxle shift lever (J) is used to select the desired forward speed and reverse.

Seat Safety Switch (Not Illustrated)

The seat safety switch is a pressure-sensitive switch located in the seat. This switch shuts off the engine whenever the operator leaves the seat with the engine and mower running. The switch functions only when the PTO clutch control lever is engaged (forward).

Starting the Tractor-Mower



Figure 11

1. Move PTO clutch lever rearward to the disengaged position.
2. Fully depress clutch pedal and move transaxle shift lever to (N) neutral position.

NOTE: The shifting pattern is shown on the decal attached to the deck directly in front of the shift lever.

3. Depress brake pedal and lower parking brake knob to bottom of slot to keep brake engaged.
4. Raise the throttle-choke lever to approximately 1/4 open position. If the engine is cold, raise the lever to the "CHOKE" position at top of slot. Usually it isn't necessary to choke a warm engine.

IMPORTANT: Always warm up engine before applying load.

5. Turn ignition key clockwise to "START" position. When engine begins to run, lower lever half-way between "FAST" and "SLOW" position. If weather is extremely cold, choking may be necessary until engine warms up.
6. Fully depress brake pedal to release parking brake. Hook parking brake knob in top of slot to keep parking brake in released position.

IMPORTANT: Always stop tractor completely before shifting gears.

CAUTION: Always look behind you before backing tractor to make sure area is clear of people, pets and debris.

7. Press lift lever thumb release and move lift lever completely rearward to raise mower or other equipment to transport position.
8. Fully depress clutch pedal and move transaxle shift lever into desired gear. Keep clutch pedal depressed. Use a strong steady motion to slide gears firmly into mesh. If necessary, release clutch pedal quickly and depress fully again to rotate gears enough for easy engagement. Never "grind" gears. Slowly, remove foot from clutch pedal to start forward or rearward tractor movement.

CAUTION: Familiarize yourself with the tractor by driving it around at a slow ground travel speed in a large open area several minutes before starting to operate the mower or other equipment. Avoid stopping tractor to shift gears when going up an incline. Never operate tractor on steep inclines. Select a safe ground travel speed. Operate tractor in first or second gear awhile until you become familiar with its operation.

9. When mowing area is reached, simultaneously depress the clutch and brake pedals to stop movement. Keep the pedals fully depressed.
10. Slowly move PTO clutch control lever forward to engage mower drive.
11. Move tractor throttle-choke lever to "FAST" position.

NOTE: For optimum performance, always operate power-driven equipment at maximum tractor engine speed.

12. Press lift lever thumb release and move lift lever forward to lower mower to operating position.

CAUTION: When mowing over rough ground or on hillsides, select the transaxle gear that will give a safe ground travel speed when the engine is operating at full throttle.

13. Release the brake pedal; then, slowly remove foot from clutch pedal to begin mowing.

IMPORTANT: Avoid unnecessary engine idling. Prolonged engine idling can cause the engine operating temperature to rise. This in turn causes crankcase oil dilution, due to incomplete fuel combustion, and permits formation of gummy deposits on valves, piston, and piston rings. It also allows rapid accumulation of engine sludge and unburned fuel in the exhaust system. Rather than idle the engine for a considerable length of time, stop the engine.

Stopping the Tractor-Mower

CAUTION: Be prepared to disengage power-driven equipment and stop tractor forward movement quickly if an obstruction is hit or other emergency situations arise. Always repair damage to equipment before restarting operation.

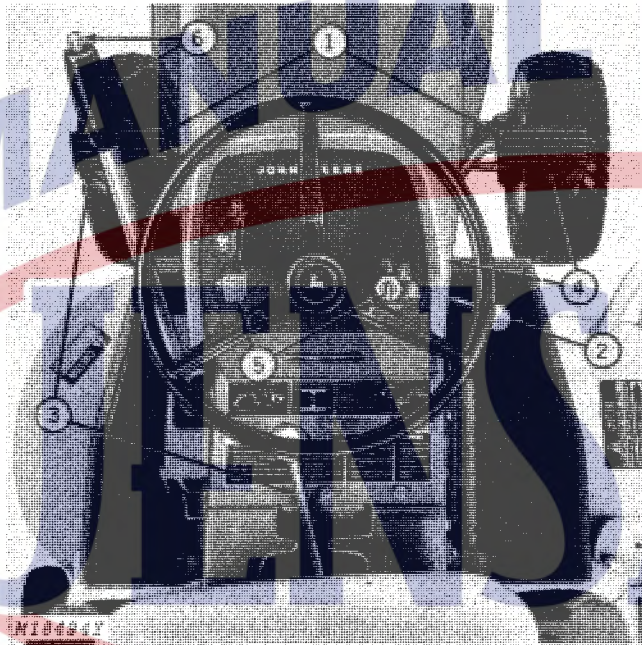


Figure 12

1. Simultaneously depress both clutch and brake pedals to stop the tractor. Keep pedals fully depressed.

CAUTION: If brakes should ever feel "weak or spongy", refer to page 21 and adjust brakes as required. If brake adjustment cannot be attained, see your John Deere dealer at once for brake repair or adjustment.

2. Move PTO clutch lever to rear to disengage the mower or other power-driven equipment.
3. Shift transaxle into neutral and release clutch pedal.
4. Lower parking brake knob to set parking brake. Release brake pedal.
5. Lower throttle-choke lever to bottom of slot and idle engine for one or two minutes before turning the ignition key to the "OFF" position. Remove ignition key.

CAUTION: Always remove ignition key before leaving tractor to prevent unauthorized operation.

6. Depress lift lever thumb release and move lift lever completely forward to lower mower or other mounted equipment to ground level for safety and no load on the lift system.

MOWER SAFETY

When using your tractor with a mower:

- (1) Mow only in daylight or in good artificial light.
- (2) Never make a cutting height adjustment while the engine is running if you must dismount to do so.
- (3) Shut off engine when unclogging discharge chute.
- (4) Check blade mounting bolts for proper tightness at frequent intervals.
- (5) Do not use tractor for mowing unless mower discharge chute guard is in place.



CAUTION

1. Keep all shields and discharge chute guard in place.
2. Before servicing machine, disengage power, shut off engine, make sure knife arms have stopped revolving, disconnect spark plug cable.
3. Do not stand near machine while knives are in motion.
4. Keep hands, feet and clothing away from power driven parts.