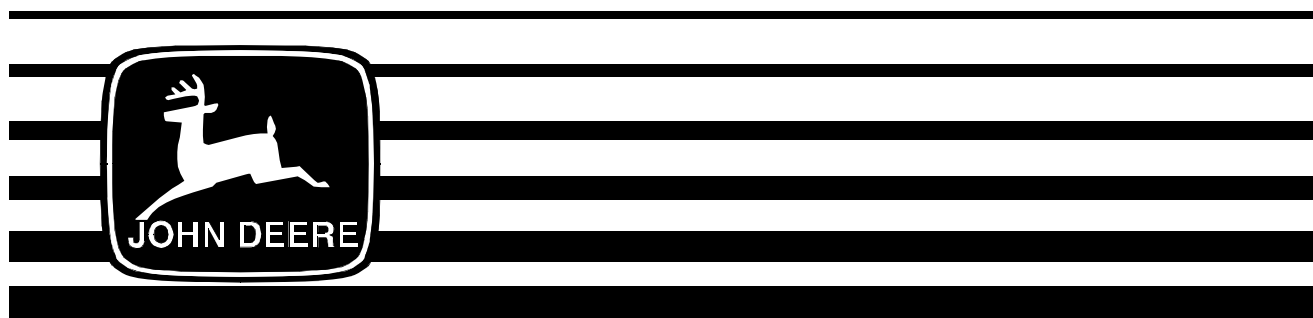


Commercial Walk-Behind Mowers GS30, GS45 and GS75

Serial No. (020001 -)



OPERATOR'S MANUAL

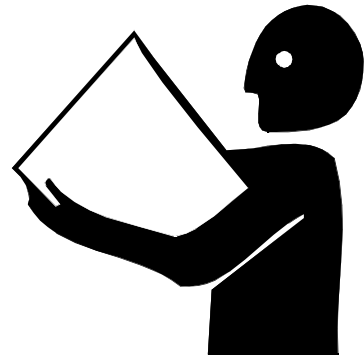
**John Deere
Worldwide Commercial And
Consumer Equipment Division
OMM131756 B9**

North American
Litho in U.S.A.
English

INTRODUCTION

THANK YOU for purchasing a John Deere product.

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



WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CALIFORNIA Proposition 65 Warning

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

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

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

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

PRODUCT IDENTIFICATION NUMBER (A):

ENGINE SERIAL NUMBER (B):

MOWER DECK SERIAL NUMBER (C):

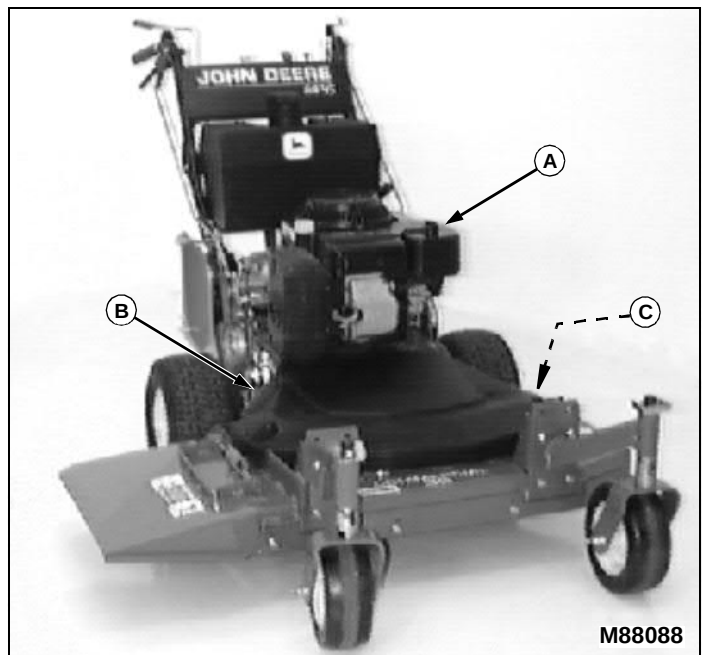


TABLE OF CONTENTS

Safety Signs	1
Controls	2
Operating	4
Replacement Parts	26
Service Machine Safely	28
Service Interval Chart	30
Service - Engine GS30)	33
Service - Engine GS45 & GS75)	39
Service - Transmission	45
Service - Steering & Brakes	48
Service - Mower	51
Service – Electrical	69
Service – Miscellaneous	75
Troubleshooting	79
Storing Machine	82
Assembly	84
Specifications	100
Warranty	109
Index	114
John Deere Service Literature	119

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

COPYRIGHT© 1998
Deere & Co.
John Deere Worldwide Commercial and
Consumer Equipment Division
Horicon, WI
All rights reserved

OMM131756 B9

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

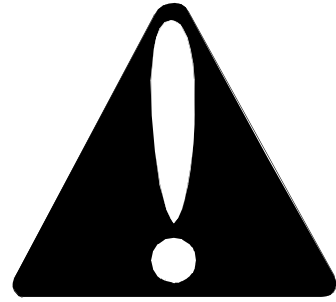
<https://www.ebooklibonline.com>

SAFETY SIGNS

Safety-Alert Symbol

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

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

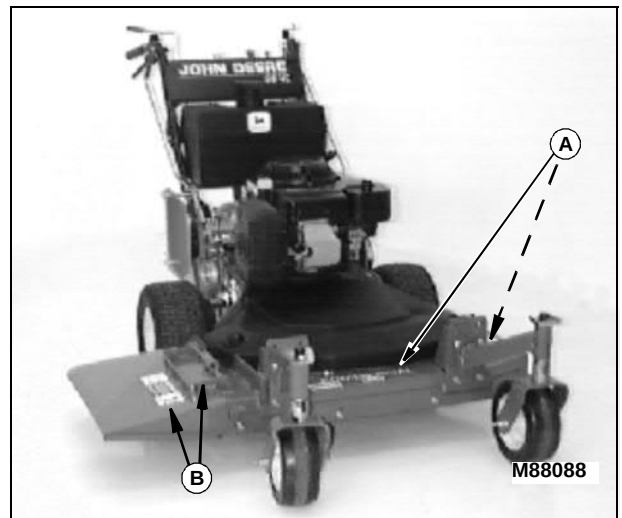


DANGER (A)

To avoid injury from rotating blades, stay clear of deck edge.

DANGER (B)

To avoid injury from rotating blades and thrown objects, stay clear of deck edge and keep others away. Do not mow without discharge chute or entire grass catcher in place.

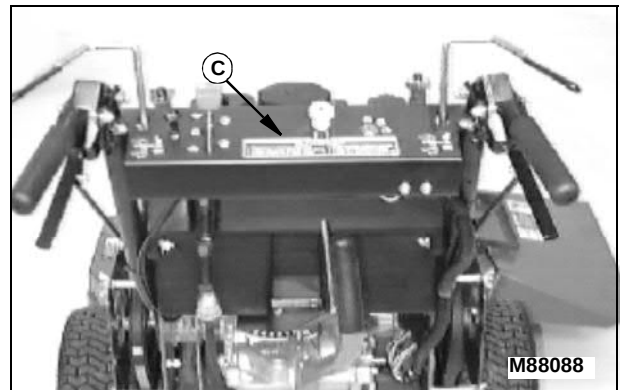


CAUTION (C)

To avoid injury, read operator's manual.

Before servicing or leaving:

Stop engine, lock brake levers and remove key.



Compliance Label

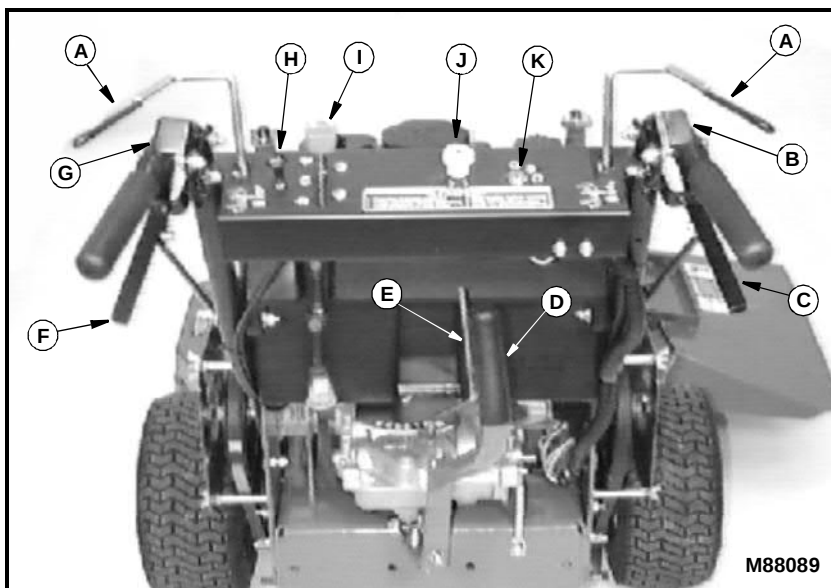
This label on your machine indicates that this model has been tested and evaluated by the manufacturer and conforms to rotary mower requirements of the American National Standard B-71.4.1990 for Commercial Turf Care Equipment Safety Specification.

THIS MODEL HAS BEEN TESTED AND EVALUATED
BY THE MANUFACTURER AND CONFORMS TO ALL
APPLICABLE ROTARY MOWER REQUIREMENTS
OF ANSI B71.4-1990 AMERICAN NATIONAL
STANDARD FOR COMMERCIAL TURF CARE
EQUIPMENT SAFETY SPECIFICATION

CONTROLS

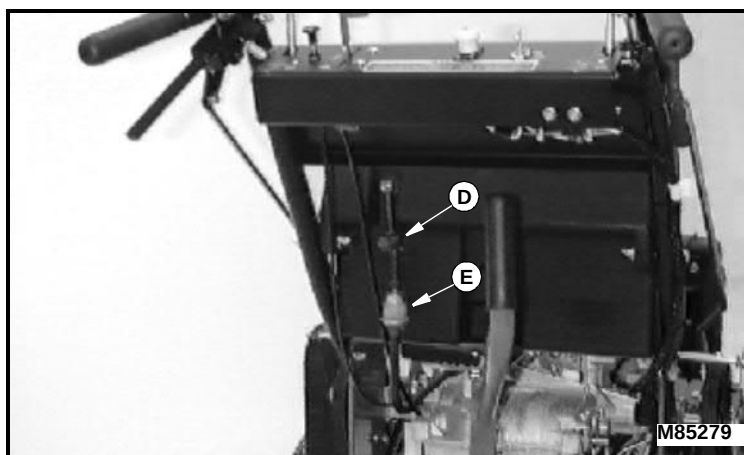
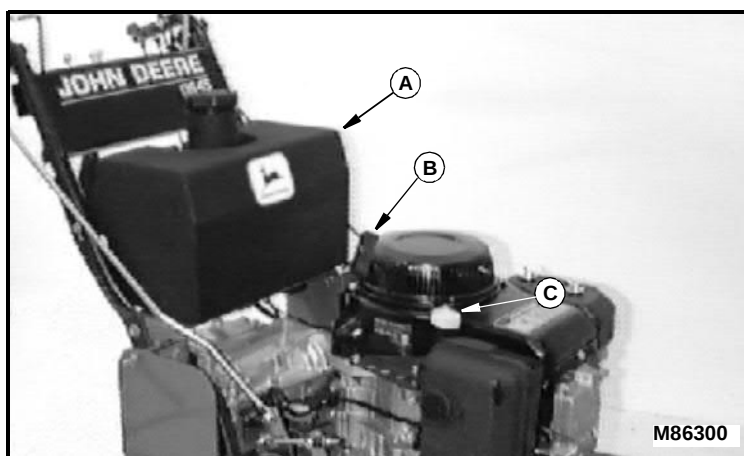
Console Controls

- A - Operator Presence
- B - RH Brake Lock
- C - RH Brake Lever
- D - Shift Lever
- E - Reverse Lockout Lever
- F - LH Brake Lever
- G - LH Brake Lock
- H - Choke
- I - Throttle Lever
- J - PTO Switch
- K - Key Switch



Engine Controls

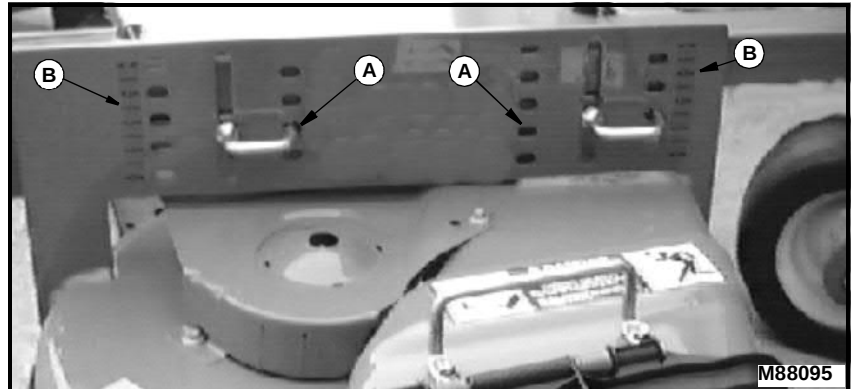
- A - Fuel Tank
- B - Starter Handle
- C - Oil Fill Tube
- D - Fuel Shut-Off Valve
- E - Fuel Filter



CONTROLS

Mower Deck Height Controls (48/54-Inch Decks)

- A - Height Adjustment Lever
- B - Height Indicators



Mower Deck Height Controls (36-Inch Decks)

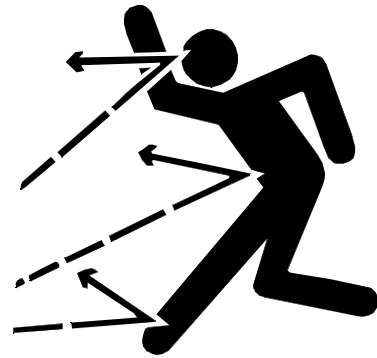
- A - Caster Wheel Spacers
- B - Caster Wheel Hardware
- C - Frame Hardware



OPERATING

Operate Safely

- Check brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Clear work area of objects that might be thrown. Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine and attachments properly maintained and in good working order.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- Be careful of traffic when operating near or crossing roadways.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.



Park Safely

- Stop machine on a level surface, not on a slope.
- Disengage PTO.
- Lock brake levers.
- STOP engine.
- Remove key.
- Before you leave the operator's station, wait for engine and all moving parts to STOP.

OPERATING

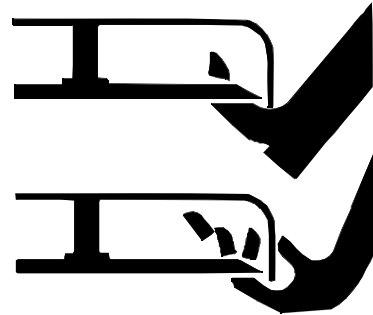
Rotating Blades Are Dangerous - Protect Children And Prevent Accidents

PROTECT CHILDREN:

- Never assume that children will remain where you last saw them. Children are attracted to mowing activity, stay alert to the presence of children.
- Keep children in the house when you are operating the machine.
- Turn machine off if a child enters the mowing area.
- Use extra care when you come to blind corners, shrubs, trees, or other objects that may block your vision.
- DO NOT let children or an untrained person operate the machine.
- DO NOT carry or let children ride on machine or any attachment. DO NOT tow children in a cart or trailer.

HELP PREVENT SERIOUS OR FATAL ACCIDENTS:

- Be alert at all times, drive forward carefully. People **ESPECIALLY CHILDREN** can move quickly into the mowing area before you know it.
- Back carefully. Shut off PTO and look behind the machine carefully, **ESPECIALLY FOR CHILDREN**, before you back up.
- DO NOT mow in reverse unless it is absolutely necessary.
- Shut off PTO when you are not mowing.
- DO NOT operate machine if you are under the influence of drugs or alcohol.



Operate Sulky Safely

- Use sulky **ONLY** on **EVEN** terrain for mowing mostly in a straight line.
- Be careful when you drive sulky and mower through a dip. Handlebars may hit you, **ESPECIALLY** when you make a turn.



OPERATING

Avoid Tipping

- DO NOT drive where machine could slip or tip.
- Stay alert for holes and other hidden hazards in the terrain.
- Keep away from drop-offs.
- Slow down before you make a sharp turn or operate on a slope.
- Drive across a hill—not up and down. Be careful when you change direction on a slope.
- DO NOT stop when going up hill or down hill. If machine stops going up hill, STOP PTO and back down slowly.
- DO NOT mow wet grass. Reduced traction could cause sliding.

Operator Training Required

- Study operation section of this manual before operating the machine.
- Operate machine in an open, unobstructed area under the direction of an experienced operator.
- Learn the use of all controls.
- Operator experience is required to learn the moving, stopping, turning and other operating characteristics of the machine.

Keep Riders Off

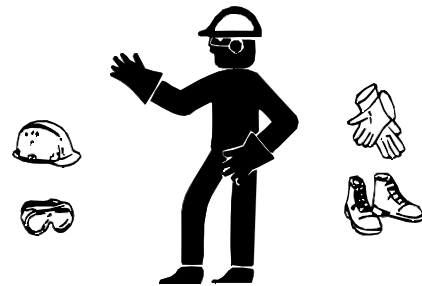
- Only allow the operator on the sulky. Keep riders off sulky and mower.
- Riders on the machine may be struck by foreign objects or thrown off the machine causing serious injury.
- Riders obstruct the operator's view resulting in the machine being operated in an unsafe manner.



OPERATING

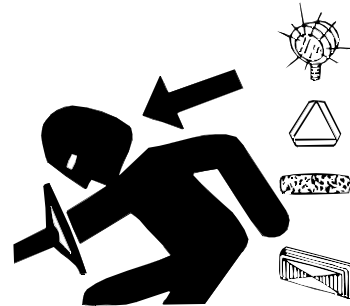
Wear Appropriate Clothing

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



Transport Safely

- Use safety lights and devices. Slow moving machines when driven on public roads are hard to see, especially at night. Avoid personal injury or death resulting from a collision with a vehicle.
- Whenever driving on public roads, use flashing warning lights and turn signals according to local regulations. Extra flashing warning lights may need to be installed.

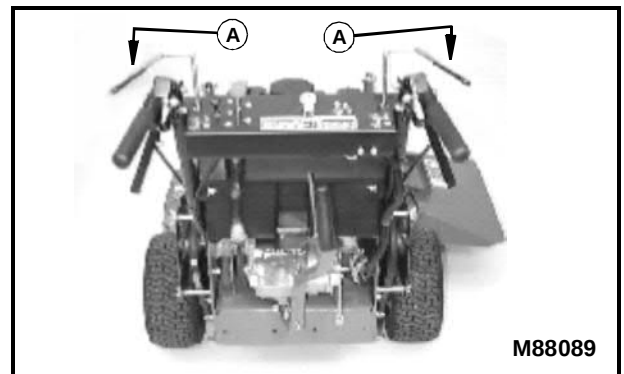


Using Operator Presence

The operator presence system is designed to protect the operator. The operator presence lever (A) can be operated by either the left or right hand.

To operate the PTO, the operator presence lever (A) must be held down against the handlebars by the operator.

If the operator releases the operator presence lever (A) while mowing; the engine will automatically stop.



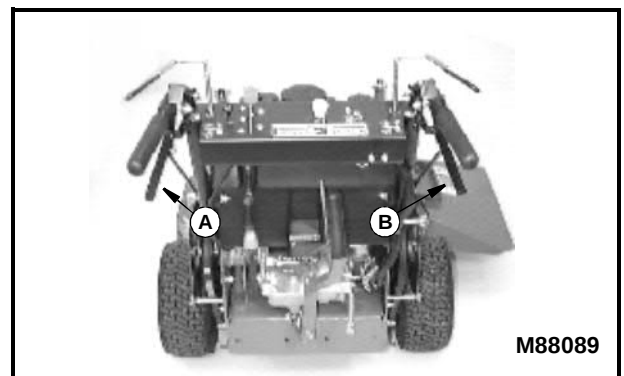
Using Hand Brake Levers

The hand brake levers (A & B) are used to steer the unit. When a hand brake lever is engaged or partially engaged, the drive wheel is disconnected from the transmission and the steering brake is applied. The left and right hand sides work independently from each other.

Left brake lever (A) controls left drive wheel. Pull and hold lever against handle to turn LEFT.

Right brake lever (B) controls right wheel. Pull and hold lever against handle to turn RIGHT.

If brake levers are not adjusted equally or unit does not steer correctly, see Adjusting Brakes or Adjusting Drive Wheel Belt Tension in the Service - Steering and Brakes section or Adjusting Tire Pressure in the Service - Miscellaneous section.



OPERATING

Emergency Stopping:

- Pull up brake levers to stop forward movement.
- Lock brake levers by pushing brake lever locks forward.
- Release operator presence lever.
- Turn ignition key to the “OFF” position.

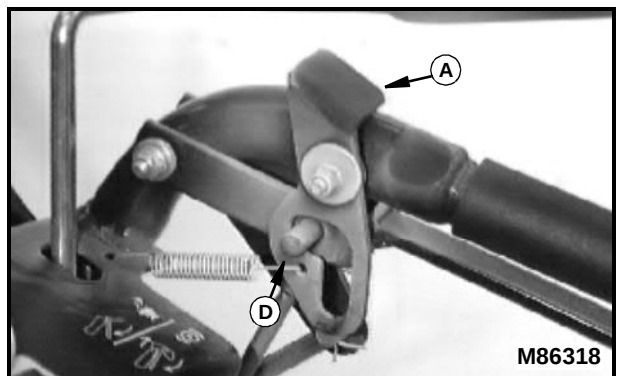
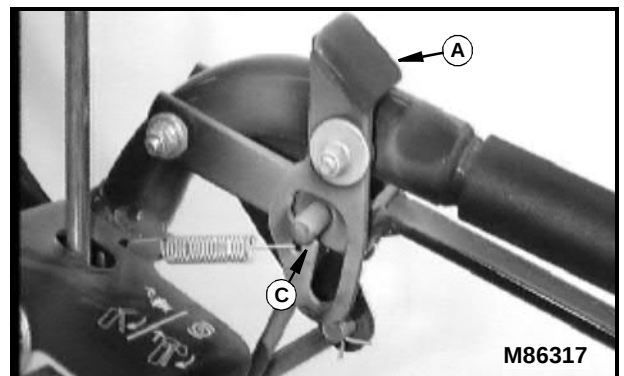
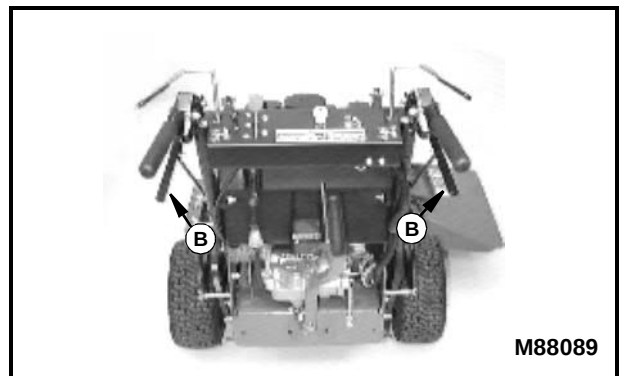
Using Brake Lever Locks

The brake lever locks are designed to operate as a parking brake. When the brake levers are locked in the engaged position: the drive wheels are disconnected from the transmission and the left and right steering brakes are engaged. The left and right hand sides work independently from each other.

1. Pull up brake levers (B) to stop forward movement.
2. Push lever locks (A) forward with thumbs:
 - Operational Brake detent position (C).
 - Park Brake detent position (D).
3. Release brake levers.

To release brake lever locks; pull up on brake levers and locks will automatically release.

If brake levers are not adjusted equally or the brake lever locks cannot be engaged, see Adjusting Brakes in the Service - Steering And Brakes section.



OPERATING

Using Speed Selector Lever

Speed Selector Lever (B) controls the units forward speed and reverse motion.

Forward:

- It is OK to shift on-the-go among forward speeds.
- There are five forward speeds available: “1” is the slowest speed and “5” is the fastest speed.
- Speed range is approximately: 2.4 to 9.3 km/h (1.5 to 5.8 mph).
- The transmission shift lever “N” neutral location is adjustable. If necessary, adjust neutral “N” location. see Adjusting Transmission Shift Lever in the Service - Transmission section.

Reverse:

- Stop forward movement before you shift into reverse.
- Pull reverse lock (A) towards speed selector lever (B). Move speed selector lever into reverse “R” position.
- Reverse speed is approximately: 2.9 km/h (1.8 mph).
- The reverse lock (A) should be fully seated in the speed indicator plate neutral “N” notch. If necessary adjust the reverse lock, see Adjusting Transmission Reverse Lock Lever in the Service - Transmission section.

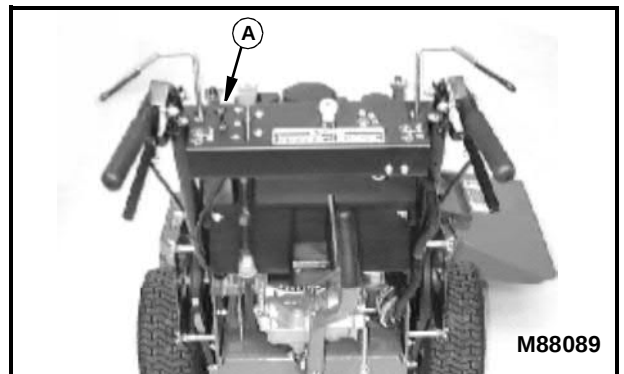
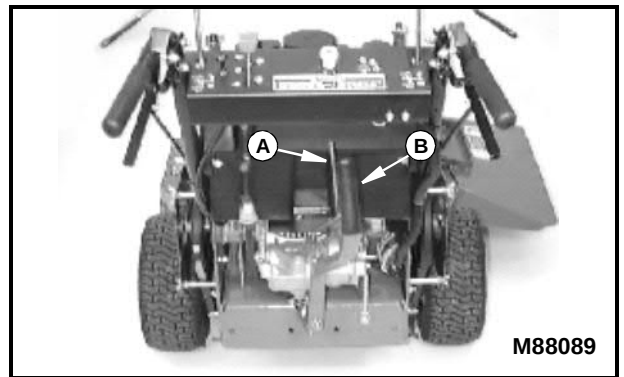
The transmission controls the units forward and reverse motion through out all the gears. If you suspect any slippage in the drivetrain, check the tension on the drive belts:

- See Adjusting Transmission Drive Belt Tension in the Service - Transmission section.
- See Adjusting Drive Wheel Belt Tension in the Service - Steering And Brakes section.

Using Choke

Pull knob up to CHOKE engine.

Push knob down to OPEN choke.



OPERATING

Using Throttle Lever

Push lever all the way forward to FAST (🐾) position. Use this position when you mow.

Pull lever to rear to SLOW (🐌) position. Do not run engine at SLOW idle any longer than necessary.

Using PTO Switch

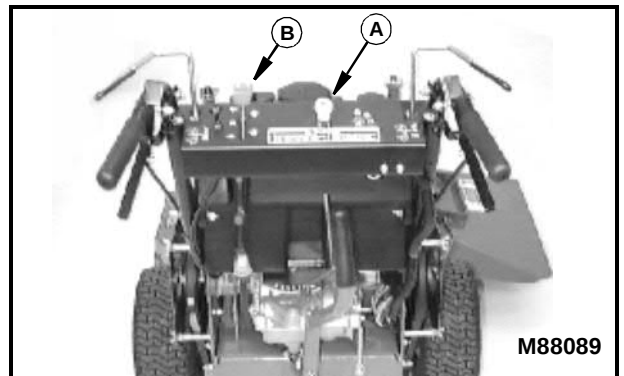
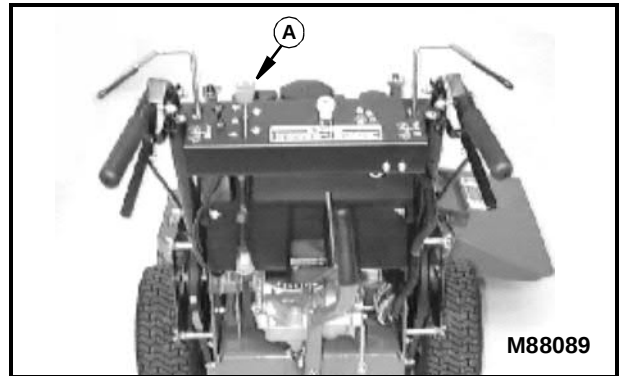
NOTE: Prior to engaging the PTO, the operator presence lever must be engaged. See *Using Operator Presence Lever* in this section.

Engage PTO:

- Move throttle lever (B) to the 3/4 FAST (🐾) position.
- Pull knob (A) up.
- Move throttle lever (B) forward to the FAST (🐾) position for mowing.

Disengage PTO:

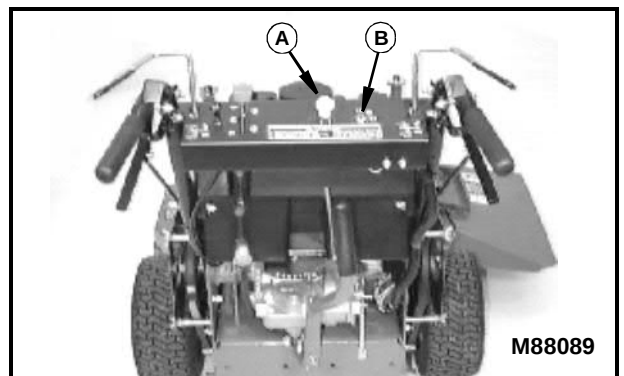
- Push knob (A) DOWN.



Using Key Switch

Start Engine:

1. Move shift lever to "N" neutral position.
2. Make sure PTO knob (A) is pushed down (disengaged).
3. Turn key switch (B) to the "🔑" position.
4. Start engine:
 - **Manual Start Model:** Engine is ready to start. Pull starter handle.
 - **Electric Start Model:** Turn key switch to the "R" position to start engine.



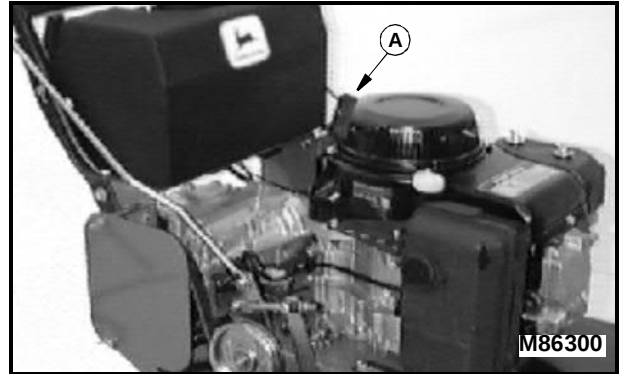
Stop Engine:

- Turn key switch to the "STOP" position.

OPERATING

Using Starter Handle (Recoil Start)

1. Pull starter handle (A) slowly until you feel resistance within the engine.
2. Pull starter handle fast and steady. Repeat until engine starts.
3. Let starter handle return slowly. Do not let handle snap back when engine starts.



Setting Parking Brake

When the brake levers (B) and brake lever locks (A) are in the engaged position: the drive wheels are disconnected from the transmission and the left and right steering brakes are engaged. The left and right hand sides work independently from each other.

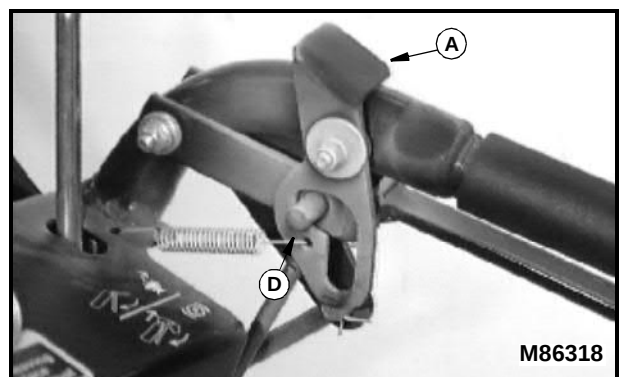
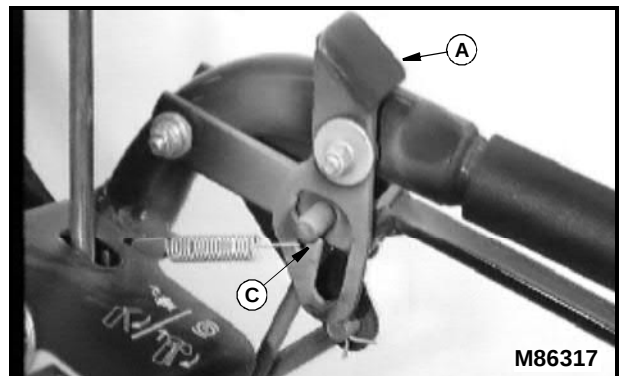
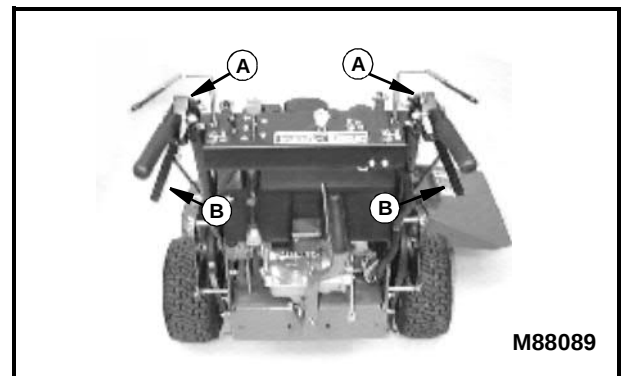
Set Parking Brake:

- Pull up brake levers (B) to stop forward movement.
- Push lever locks (A) forward with thumbs:
 - Operational Brake detent position (C).
 - Park Brake detent position (D)
- Release brake levers.

Release Parking Brake:

- To release brake lever locks; pull up on brake levers and locks will automatically release.

If brake levers are not adjusted equally or the brake lever locks cannot be engaged, see Adjusting Brakes in the Service - Steering And Brakes section.



OPERATING

Using Fuel Shut-Off Valve

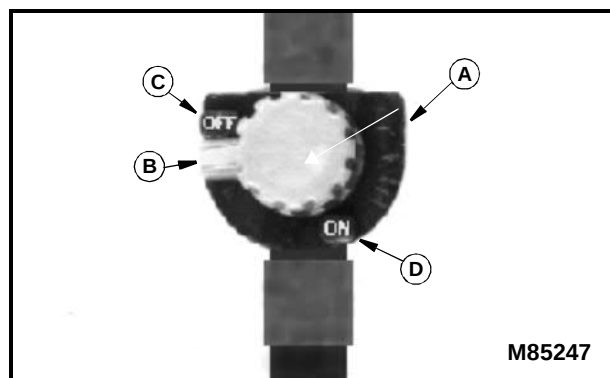
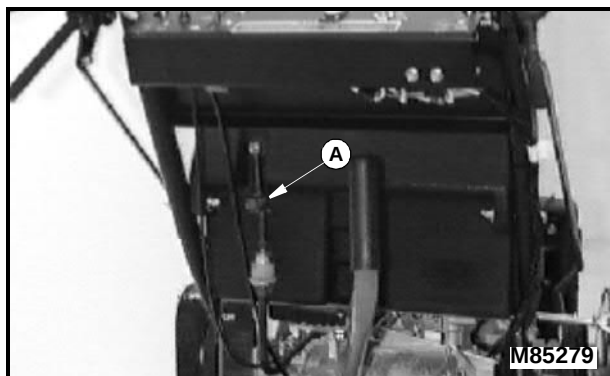
This unit is equipped with a 2-position fuel shut-off valve (A). Turn “Red” knob (B) clockwise or counterclockwise to open or close the fuel shut-off valve.

CLOSED (OFF) position (C):

- When performing any type of engine service.
- When transporting.
- During storage.

OPEN (ON) position (D):

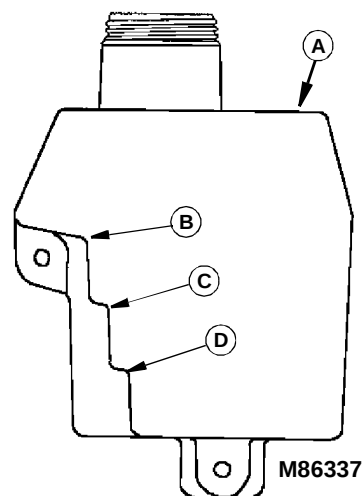
- Fuel shut-off valve must be in the full OPEN (ON) position for proper fuel delivery to the engine.



Using Fuel Gauge

The fuel tank (A) has a built in fuel gauge.

1. Remove fuel cap.
2. Look inside fuel tank. Fuel tank has molded-in steps showing the approximate amount of fuel left in the tank.
 - 3/4 tank marker (B).
 - 1/2 tank marker (C).
 - 1/4 tank marker (D).



OPERATING

Starting Engine



CAUTION: Engine exhaust fumes can cause sickness or death.

- If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.
- If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

1. Check fuel shut-off valve (A):

- Valve must be in the full OPEN (ON) position. (See Using Fuel Shut-Off Valve in this section).

2. Move shift lever (B) to neutral “N” position.

If the shift lever neutral “N” indicator rod is aligned with the “N” on the indicator label, but the transmission is not in neutral. See Adjusting Shift Lever Neutral or Adjusting Transmission Reverse Lock Rod in the Service - Transmission section.

3. PTO knob (C) must be in OFF (DOWN) position.

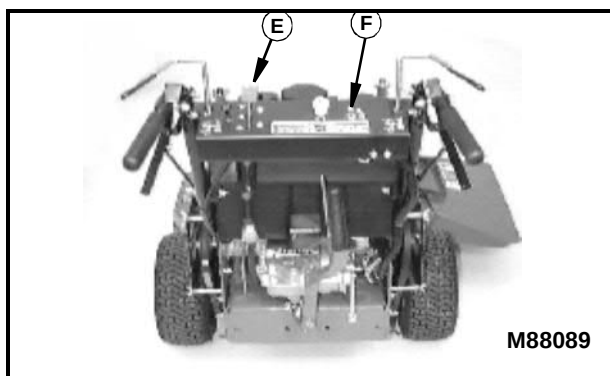
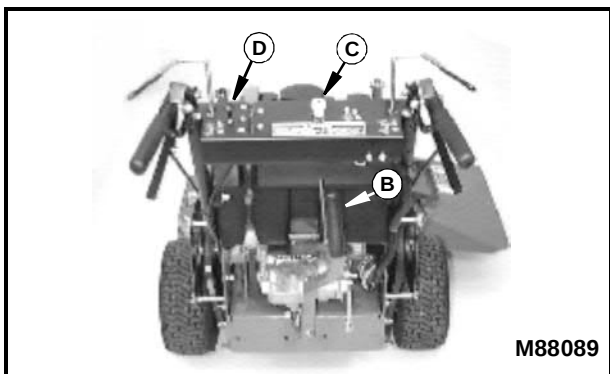
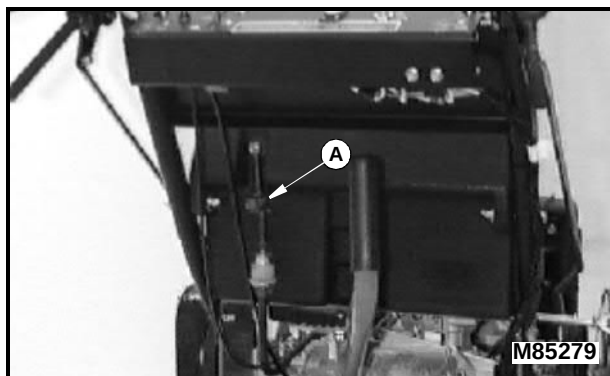
4. Position choke knob (D):

- Cold engine: Pull knob up to the CHOKE position.
- Warm/Hot engine: If necessary, pull up knob to CHOKE position.

5. Move throttle lever (E) to set engine speed:

- Cold engine: set throttle lever at 3/4 FAST (🐘) position.
- Warm / Hot engine: set throttle lever in the FAST (🐘) position.

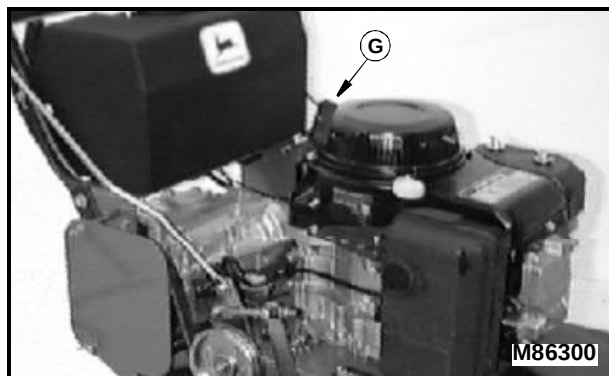
6. Turn key (F) to “🔑” position.



OPERATING

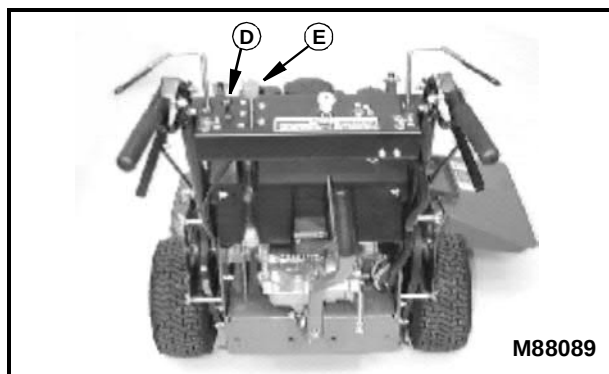
7. Start engine:

- **Recoil Start:** Pull starter handle (G) slowly until you feel resistance within the engine. Pull starter handle fast and steady. Repeat until engine starts. Let starter handle return slowly. Do not let handle snap back when engine starts.
- **Electric Start:** Turn key (F) to "⏻" position. Release key when engine starts.



8. With engine started:

- Move choke knob (D) to the OFF position.
- Move throttle lever (E) to the desired engine speed.

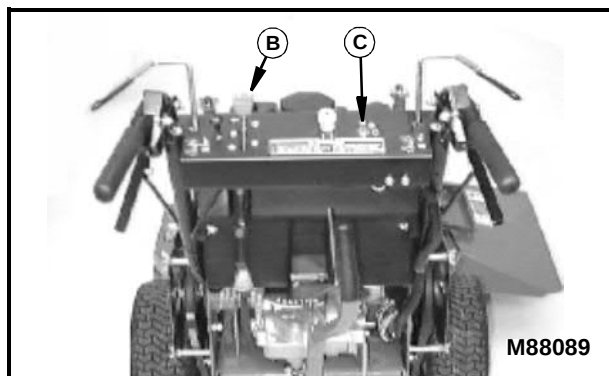
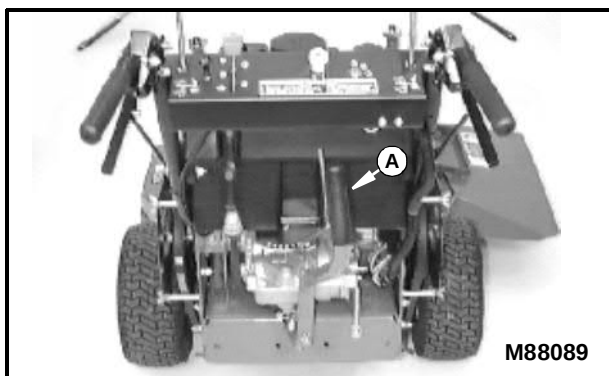


Stopping Engine

IMPORTANT: Do not stop engine when mower is heading down a slope of more than 10°: Oil may run through valve train into carburetor and muffler.

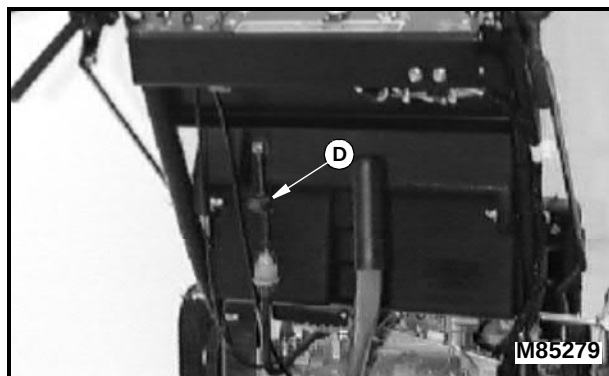
Follow steps below before you park, inspect or adjust this unit.

1. Put the speed selector lever (A) in neutral "N" position.
2. Slowly move throttle lever (B) back to the SLOW (🐢) position.
3. Turn key (C) to "STOP" position.



OPERATING

4. Move fuel shut-off valve (D) to the CLOSED (OFF) position. (See Using Fuel Shut-Off Valve in this section)



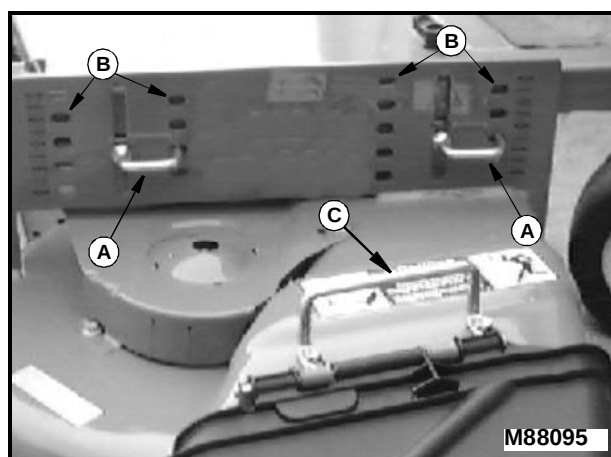
Adjusting Mower Deck Height (48/54-Inch Decks)

The mower deck height adjustment consists of nine different cutting heights. The nine cutting heights range from 25–127 mm (1–5 in.) in 13 mm (1/2 inch) increments. The cutting height indicators (B) are labeled in the mower deck support frame.

NOTE: *To maintain a level mower deck, both sides, front and rear of the deck must be adjusted equally.*

To change the mower deck cutting height:

- Pull out spring-loaded pins (A).
- Lift or lower mower deck using handle (C) to the desired mower deck height indicator (B).
- Release spring-loaded pins.
- Make sure spring-loaded pins are fully engaged into the mower deck support bracket holes.





Suggest:

If the above button click is invalid.

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

Thank you so much for reading

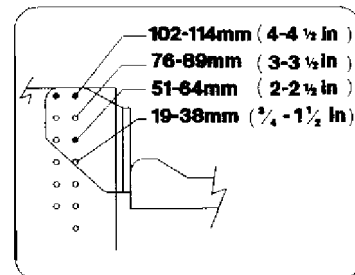
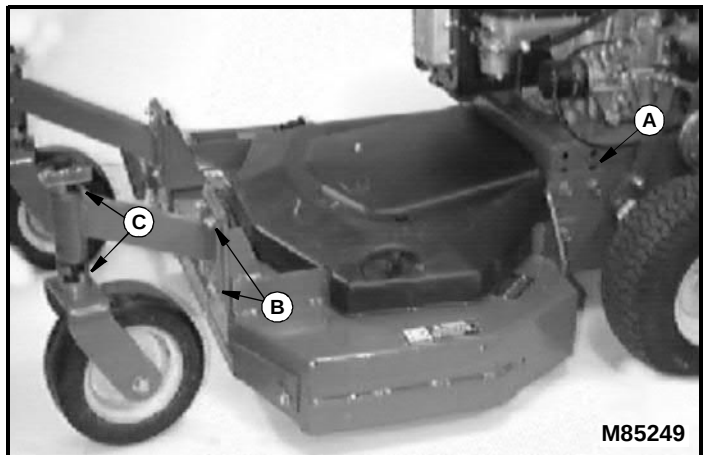
OPERATING

Adjusting Mower Deck Height (36-Inch Decks)

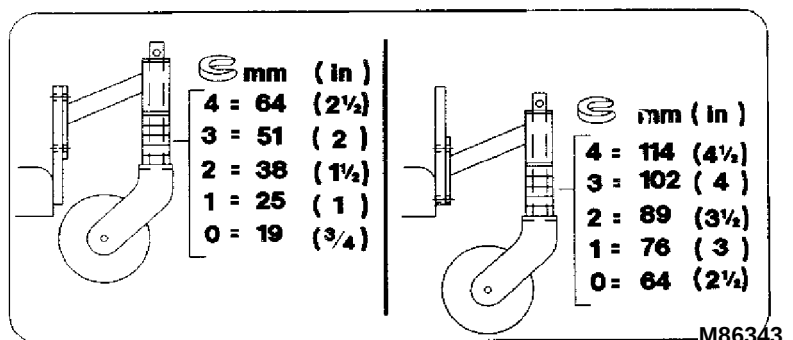
The mower deck height adjustment consists of nine different cutting heights. The nine cutting heights range from 19–114 mm (3/4–4 1/2 in).

The mower deck height adjustment consists of:
(Please review Mower Deck Labels)

- Four sets of mounting holes in the power unit frame (A).
- Two sets of mounting holes in the caster wheel supports (B).
- Caster wheel spacers (C).



M86344



M86343

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>