OWNERS MANUAL
With Assembly Instructions
For Models: MR44BE

KUNZ ENGINEERING, INC. / MENDOTA, IL 61342 / PH (815) 539-6954
SAFETY INTRODUCTION

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

This safety alert symbol is used to indicate safety instructions. Follow these instructions to avoid personal injury and/or property damage. Read and follow all instructions in this manual and the included engine manual.

You will find important safety information in a variety of forms, including:

   Safety Labels – on the mower.

   Safety Messages – preceded by a safety alert symbol ⚠ and one of three signal words: DANGER, WARNING, or CAUTION.

These signal words mean:

⚠️ DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

⚠️ WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

⚠️ CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

This entire manual is filled with important safety information. Please read it carefully.
IMPORTANT SAFETY INFORMATION

WARNING: Do not allow anyone to operate this equipment who has not fully read and comprehended the safety manual and who has not been properly trained in the safe operation of the equipment.

WARNING: Operator should be familiar with all functions of the unit.

DANGER: Keep hands, feet, hair and clothing away from moving parts.

WARNING: Remove all objects from the work area that might be picked up and thrown by the blades.

WARNING: Do not mow when children and others are around.

WARNING: Keep all safety shields and deflectors in place during operation.

WARNING: Shut off the engine and allow the mower blades to come to a complete stop before making any adjustments to the mower.

WARNING: Shut off engine before disconnecting the mower from the tow vehicle or attempting to move the mower by hand.

WARNING: Never carry children or passengers.

WARNING: Do not allow children to operate this machine.

WARNING: Follow all safety precautions outlined by the manufacturer of the tow vehicle being used to pull this product.

This entire manual is filled with important safety information. Please read it carefully.
SAFETY SIGNS AND LOCATIONS

Clean or Replace Any Safety Signs That Are not Readable or Damaged

Replacement decals can be purchased from your local dealer or

Kunz Engineering Inc.
Mendota, IL 61342
(815) 539-6954
ASSEMBLY INSTRUCTIONS

Read the complete assembly instructions before starting the assembly.

You should have:
- one mower deck assembly
- two carrier arm assemblies
- two rear tire assemblies
- one front cross brace tube and one rear cross brace tube with height adjust assy.
- one ATV tongue assembly

A. ASSEMBLY OF REAR WHEELS AND CARRIER ARMS
1. Set the mower deck assembly on wood blocks so that it is suspended off the ground.

   Note: The operator controls are on the front of the deck. (Left and right are determined by looking in the direction of travel or by standing at the rear of the deck assembly looking forward.)

2. Install the rear tire assemblies on the carrier arm assemblies. Remove the hex nut and lock washer from the rear tire assembly and install the 5/8”x7-1/2” tire axle bolt through the hole in the carrier arm assembly. See figure 1. Secure assembly with the lock washer and hex nut provided on the rear tire assembly. The rear tires should be offset to the outside of the deck assembly on both sides. See figure 2.

![Figure 1: Rear Tire Assembly Installation](image-url)
3. Install the two carrier arm assemblies in the pivot arms, which are located on the mower deck assembly. Place the assembly so that the castered tires are on the front and the fixed tires are on the back. See figure 2. Secure with 1/2” x 3-1/2” hex head bolts and lock nuts provided on the pivot arms.

**Note:** Tighten 1/2” x 3-1/2” hex head bolts until just snug. This area needs to pivot when adjusting the height. Under tightening can result in excessive wear and flexing. Over tightening will make adjusting the cutting height very difficult.

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**B. INSTALLATION OF CROSS BRACE TUBES AND HEIGHT ADJUST ASSY.**

For this section, if your mower was purchased with an Electric Lift Kit (Part #003912), refer to Section C of the Electric Lift Kit Owner’s Manual.

1. Remove the 1/2” x 3” hex head bolts, lock washers and nuts that are located on the top of each carrier arm (four per carrier arm). The removed hardware will be used in step 2.

2. Install the cross brace tubes on the carrier arms with the 1/2” x 3” hex head bolts, lock washers and nuts. Only hand tighten the hardware for this step. The support that has the height adjust assy. fastened to it needs to be placed on the rear location. Orientate the support such that the height adjust assy. hangs towards the engine. See figure 3.

3. Remove the 1/2” x 1” bolt and lock nut from the lower deck mount. Manually turn the screw down towards the deck until the screw mounting flat hole lines up with the lower deck mount hole. After achieving alignment, attach the screw mounting flat with the 1/2” x 1” hex head bolt and secure the bolt with the provided lock nut. Do not over-tighten. This location must be able to pivot. See figure 4.
4. Turn the crank on the height adjust assy. and raise the mower to its highest position. At this time securely tighten the 1/2" x 3" hex head bolts, lock washers and nuts holding the cross brace tubes in place. This step insures that proper alignment of the carrier arms has been achieved.
C. INSTALLATION OF TONGUE ASSEMBLY

1. The tongue can be installed either on the left or right carrier arm assembly depending on how the tow-behind mower will be towed. **See figure 5.** Secure the hitch pivot on the chosen carrier arm assembly with the 1/2” x 3-1/2” hex head bolt, lock washer, and nut provided.

2. Install the tongue into the hitch pivot and secure by placing the provided 5/16” wire lock pins on each side of the hitch pivot.

   **Note:** To help prevent any unwanted pin removal caused by oncoming debris install the 5/16” wire lock pins with the wire lock section back from the direction of travel. **See Figure 6.**

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Figure 5: Assembly of the Tongue and Hitch Pivot
OPERATIONS AND ADJUSTMENTS

This safety alert symbol is used to indicate safety instructions. Follow these instructions to avoid personal injury and/or property damage. Read and follow all instructions in this manual and the attached engine manual.

WARNING: Do not allow anyone to operate this equipment who has not fully read and comprehended the safety manual and who has not been properly trained in the safe operation of the equipment.

WARNING: Operator should be familiar with all functions of the unit.

A. TONGUE CONFIGURATIONS AND ADJUSTMENTS

WARNING: Shut off the engine and allow the mower blades to come to a complete stop before adjusting the tongue.

The hitching system is designed so that the rough cut mower can be pulled directly behind a tow vehicle or offset to the left or right. See Figure 7.

Note: When pulling the mower directly behind, the hitch pivot should be fastened on the right carrier arm for maximum maneuverability. See Figure 5. When pulling the mower in the offset position the hitch pivot can be fastened on either the right or left carrier arm. See Figure 5.
The tongue is equipped with a screw pin shackle clevis to provide movement in all directions on rough uneven ground. To prevent loss of the screw pin due to vibration or debris, place the screw pin through the tow vehicle hitch and clevis and turn the screw pin until snug.

The tongue is designed to adjust from left to right within the hitch pivot. This allows the mower's position to be varied behind the tow vehicle. This is accomplished by pulling the 5/16” wire lock pins out and choosing two other hole locations on the tongue. See Figure 6.

![Diagram of Directly Behind and Offset](image)

Figure 7: Rough Cut Tow Behind Towing Suggestions

B. **ADJUSTING CUTTING HEIGHT**

⚠️ **WARNING:** Shut off the engine and allow the mower blades to come to a complete stop before adjusting the cutting height.

![Diagram of Adjusting Rough Cut Mower Cutting Height](image)

Figure 8: Adjusting Rough Cut Mower Cutting Height
The cutting height can be adjusted in a range from 2.0" to 8.0". This is accomplished by turning the height adjust crank located at the back of the mower. *See Figure 8.* Turn the crank clockwise to raise the mower cutting height and counter-clockwise to lower the mower cutting height.

**DANGER:** Shut off tow vehicle engine and allow mower blades to stop completely before attempting to measure the cutting height.

Adjust the mower as follows:

1. Pull the mower on to a smooth, level surface.
2. The desired cutting height can be determined by measuring the distance from the ground to the outside lower edge of the mower deck and adding 1-5/16". The mower blade cutting edge is 1-5/16" above the outside lower edge of the mower deck.

*Note:* If the height adjust crank does not turn easily, the pivot bolts holding the carrier arm assemblies and height adjust screw may be too tight. Loosen the pivot bolts slightly to allow easier pivoting. Care should be taken not to loosen too much or excess wear and flexing may occur. Greasing the threads on the height adjust screw may also allow greater ease in adjustment.

*Note:* After setting the initial cutting height, quick field adjustments can be completed by counting crank turns. Roughly 8 turns will equal 1” of vertical movement.

The adjustment crank may unturn due to vibration. This will allow the mower’s cutting height to change. The crank can be secured by folding it down between the adjustment nut tube and the height adjust support. *See Figure 9.*

![Figure 9: Securing Crank While Not In Use](image-url)
C. STARTING ENGINE

⚠️ WARNING: Set parking brake on tow vehicle.

Attach mower tongue to tow vehicle.

⚠️ WARNING: Do not start rough cut mower unless it is attached to the tow vehicle.

Turn on the fuel shut off valve (red colored rotating knob) located inline on the fuel hose. The off position on the valve is when the red handle lines up with the “O” symbol.

Set the choke to the desired position.

Set the throttle at approximately half throttle.

Start engine and allow engine to warm up.

Set engine speed at about half throttle and engage the mower blades clutch by pulling outward on the PTO switch. (The PTO switch is located at the front of the mower deck on the control panel.)

>Note: To help extend the life of the clutch the engine rpm should be placed as low as possible before clutch engagement. If the engine should stall during clutch engagement raise the engine rpm until clutch engagement is possible.

⚠️ CAUTION: If the mower’s engine dies while in use, remove the rough cut mower from the uncut area before attempting to engage the clutch. Inspect the blades for any obstructions that may prevent blade engagement. Failure to follow these instructions may result in premature belt failure or a fire.

Adjust engine speed to full throttle.

D. SHUTTING OFF ROUGH CUT MOWER

⚠️ WARNING: Shift to neutral and set the parking brake before dismounting the tow vehicle.

Slow the engine speed down and disengage the clutch by pushing inward on the PTO switch.

Allow engine to cool down for a short time before moving the ignition switch to the off position.

Turn off the fuel shut off valve (red colored rotating knob) located inline on the fuel hose. The off position on the valve is when the red handle lines up with the “O” symbol.
E. MOWER OPERATION

- **DANGER:** Keep hands, feet, hair and clothing away from moving parts.

- **CAUTION:** Clean or replace any safety signs that are not readable or damaged.

- **WARNING:** Remove all objects from the work area that might be picked up and thrown by the blades.

- **WARNING:** Do not mow when children and others are around.

- **WARNING:** Do not fill fuel tank while engine is running or hot.

- **WARNING:** Keep all safety shields and deflectors in place during operation.

- **CAUTION:** Remove grass build up from under safety shields before each use. Do not remove safety shields while engine is running. Dry grass build up around belts and sheaves can cause fires.

- **WARNING:** Shut off engine before disconnecting the mower from the tow vehicle or attempting to move the wing mower by hand.

- **WARNING:** Never carry children or passengers.

- **WARNING:** Do not allow children to operate this machine.

- **CAUTION:** Slow down and watch the ends of the mower when making turns so objects are not struck and/or run over.

- **WARNING:** Look down, to the sides, and behind before and while backing to avoid backing over something or someone. Care should also be taken while backing so that the wing mower or mowers do not jackknife and damage hitches.

- **WARNING:** Stop the mower blades on the mower if the tow vehicle becomes stuck or stops going forward because of loss of traction. Shut off the engine on the mower before attempting to push or pull the tow vehicle.

Listen to the rough cut mower engine while mowing. The engine should run free and not work too hard. Working the engine too hard will cause overheating and premature failure.

- **CAUTION:** If the mower’s engine dies while in use, remove the rough cut mower from the uncut area before attempting to engage the clutch. Inspect the blades for any obstructions that may prevent blade engagement. Failure to follow these instructions may result in premature belt failure or a fire.
Do not allow material to build up on the air inlet to the engine cooling system. Special care should be taken to make sure the engine is getting enough inlet air. Do not allow the engine cooling fins under the shroud to be blocked. If air flow over the engine is restricted, the engine could overheat.

F. DRIVE BELT REMOVAL AND TENSION – Refer to Figure 10

![Diagram of drive belt system with labels: Initial Spring Length (New Belt): 2-1/2" to 2-9/16". Running Spring Length: 2-3/4" to 3-1/4". Front view showing engine/clutch and spring adjustment with inset showing only include spring in measurement.]

**WARNING:** Shut off engine and allow mower blades to stop turning before making any adjustments or repairs.

Remove the safety shields.

Loosen the nuts on the spring-loaded idler; adjust bolt until the belt can be slipped off the idler and drive sheaves.

Slip the belt down under the drive sheave and off the blade spindle sheaves.

Install the new belt and then adjust the tension as follows: **See Figure 10.**

Figure 10: Belt Pattern, Spring Adjustment, and Brake Adjustment
Adjust the nuts on the spring-loaded idler adjuster bolt until the length of the spring is between 2-1/2" and 2-9/16". This is the initial belt break in spring length. When the belt is broken in after several hours of mowing, the running spring length should be between 2-3/4" and 3-1/4". For maximum belt life, periodic checks every 3-4 hours should be done to make sure the spring length has not exceeded the recommended running length.

Note: Failure to periodically adjust the belt tension will result in severe belt wear and premature belt failure.

G. MOWER BLADE REMOVAL, BALANCING & INSTALLATION

⚠️ CAUTION: Sharp blades can cause bodily injury if not handled properly.

When removing the blade, it is recommended that a block of wood be placed between the blade and the underside of the mower deck. This will allow the removal of the blade without the need to hold the blade by hand.

⚠️ CAUTION: Always balance the mower blades each time they are sharpened.

Out of balance mower blades cause excessive vibrations which lead to premature bearing failures, bolts coming loose, and overall deterioration of the mower.

⚠️ CAUTION: Always properly tighten the blade bolts to the specified torque. Failure to do so can lead to unwanted loosening of the blade and damage to the blade holding saddle.

The Model MR44BE uses the Kunz Engineering Part # (202141) blade bolt. This particular hex head bolt is a 3/4” – 16NF x 1-1/4" long, grade 5 and its proper torque is 300 ft-lbs.

To ease in the blade installation process, use the same block of wood and method used during the removal of the blades.

H. LUBRICATION

There are three lubrication points on the rough cut mower -- one spring-loaded idler pivot and two caster wheel pivots. Lubricate at approximately 10 hr. intervals or more often as required in dusty conditions.

I. FUSE LOCATION

These particular mowers come equipped with a 10 AMP mini blade type fuse. The fuse is located behind the ignition switch/control panel in a black rubber inline fuse holder.

J. STORAGE

Turn off the fuel shut off valve (red colored rotating knob) located inline on the fuel hose. The off position on the valve is when the red handle lines up with the “O” symbol. If the mower is stored outside, the engine should be covered to prevent water from getting inside the engine during heavy rainstorms. See the Engine Manual for additional information.
K. **EPA EVAPORATIVE COMPONENTS**

This mower has been designed and built to meet all current EPA regulations. Any modification to the fuel tank, fuel lines, vapor hose, fuel cap, roll-over / fuel vapor valve, carbon canister (California Only) and hose clamps are prohibited. Replacement evaporative components should be purchased from Kunz Engineering. Any questions about EPA regulations or evaporative components can be directed to Kunz Engineering Inc. at 815-539-6954.
# ACREASE ROUGH CUT MOWER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>MR44BE</th>
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**ENGINE:**
- **Engine Make:** Briggs & Stratton
- **Engine Model:** Commercial Turf
- **Cylinders:** 2
- **Cycles:** 4
- **Crankshaft:** Vertical
- **Engine HP:** 23
- **Bore:** 3.12" 
- **Stroke:** 2.89" 
- **Displacement:** 44.2 cubic inches
- **Oil Capacity:** 2 U.S. qt
- **Crankshaft Dia.:** 1.0" 
- **Key Slot:** 1/4" 
- **Crankshaft Length:** 3.15" 
- **Threaded Hole in End of Crankshaft:** 7/16-20
- **Engine Mounting Bolts:** 5/16-18x1.50 Through Bolt
- **Starter:** Electric
- **Choke:** Manual

**MOWER:**
- **Fuel Tank:** 3 Gal.
- **Effective Cutting Width:** 44" 
- **Deck Construction:** 8 ga. Welded steel
- **Cutting Height:** 2" to 8" 
- **Height Adjustment:** Single Crank
- **Rear Wheels (Fixed) (4 ply Turf Pnuematic):** Two 15/600 x 6
- **Front Wheels (Caster) (4 ply Turf Pnuematic):** Two 5.30/4.50 x 6
- **Blade Dia.:** 2-23" 
- **Engine Speed, Blades Running:** 3500 RPM
- **CLUTCH TYPE:** Electric Clutch

**DIMENSIONS**
- **Length:** 95.5" 
- **Width:** 46.5" 
- **Height:** 29" 
- **Weight:** 530 lbs.

**HITCH**
- **Hitch Type:** ATV Tongue

**TOUCH-UP PAINT COLOR**
- Pewter Gray, Krylon #1606
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<td>Tube Spacer (1.32&quot; O.D. x .88&quot; Long)</td>
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<td>900049</td>
<td>Battery Box Assy.</td>
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<td>Carrier Arm</td>
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<td>900156</td>
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<td>52</td>
<td>900157</td>
<td>Height Adjust Nut</td>
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<td>900158</td>
<td>Screw Adjuster</td>
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<td>54</td>
<td>900192</td>
<td>Idler Arm Assy.</td>
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OPTIONAL EQUIPMENT

OPTIONAL WETLANDS KIT

The optional wetlands kit features an extra set of tires for added ground support in soft or water saturated areas. The following are applications and features that the wetlands kit works best in.

- Great for wetlands or marshy areas that stay wet all year around.
- Works well in combination with small personal amphibious vehicles or tracked ATVs.
- More than doubles the tire surface area in contact with the ground.
- Very easy to install bolt-on kit.
- Works on all existing and new rough cut mowers.
- The rough cut mower will not float with the wetlands kit installed. Water greater than 2-3” in depth should be avoided.
- With the Wetlands Kit installed, the minimum cutting height is 3.5” – 4”.

Shown on the 57” Rough Cut Mower

Wetlands Kit (Part # 003905)
OPTIONAL EQUIPMENT

OPTIONAL ELECTRIC LIFT KIT

The optional electric lift kit consists of all of the mounting hardware, brackets, electric actuator and wiring with remote control panel.

- Great for constantly changing terrain and grass/brush heights.
- Allows for quick cutting height changes on the go from the seat of the tow vehicle.
- Raise up and over rocks and logs with ease.
- Heavy duty 1500 lb linear screw actuator made by Linak.
- Works on all existing and new rough cut mowers.

Shown on the 57” Rough Cut Mower

Electric Lift Kit (Part # 003912)
OPTIONAL EQUIPMENT

OPTIONAL FLOATATION KIT

The optional floatation kit consists of one additional front and rear tire, mounting brackets and hardware.

- Great for mowing around ponds and on rough uneven ground where scalping would normally occur.
- Clamping style receiver allows for adjustments from side to side with both the front and rear tires.
- Pinned receivers make for quick kit removal when not needed.
- Works on all existing and new rough cut mowers.

Shown on the 57” Rough Cut Mower

Rear Floatation Kit (Part # 003907)
Front Floatation Kit (Part # 003908)