

## **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.

**This entire manual is filled with important safety information. Please read it carefully.**

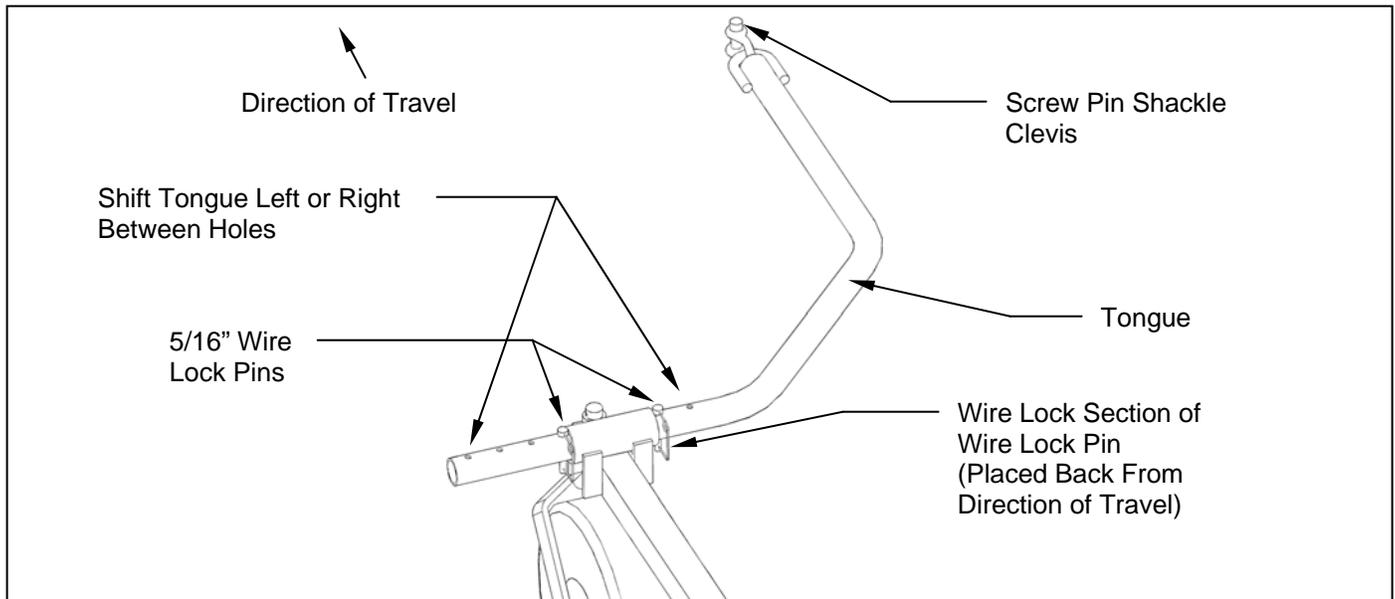


Figure 6: ATV Tongue Assembly

## 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.



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**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 mowers 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.**

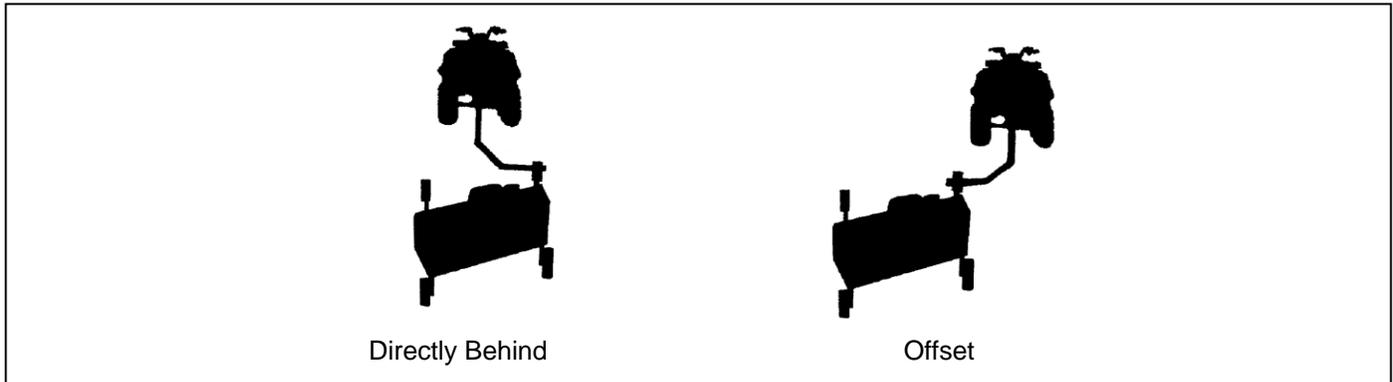


Figure 7: Rough Cut Tow Behind Towing Suggestions

**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.

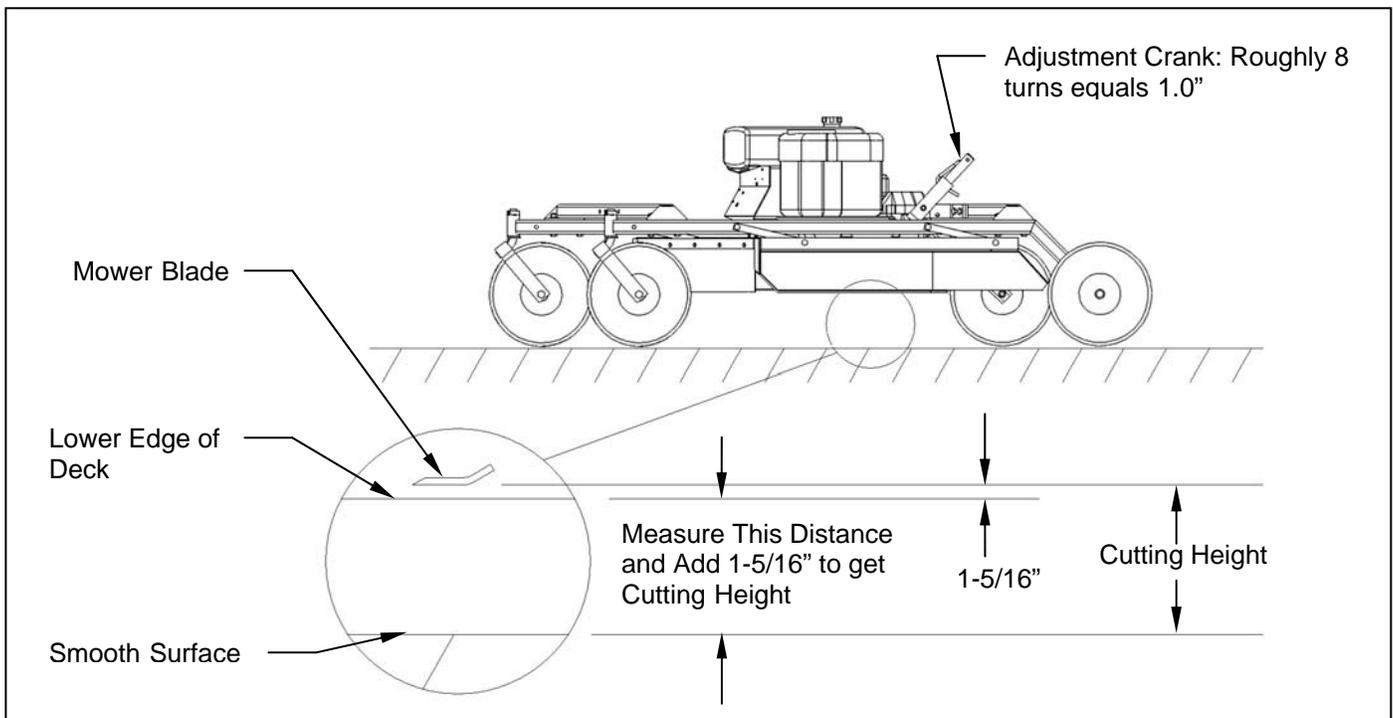


Figure 8: Adjusting Rough Cut Mower Cutting Height

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.**

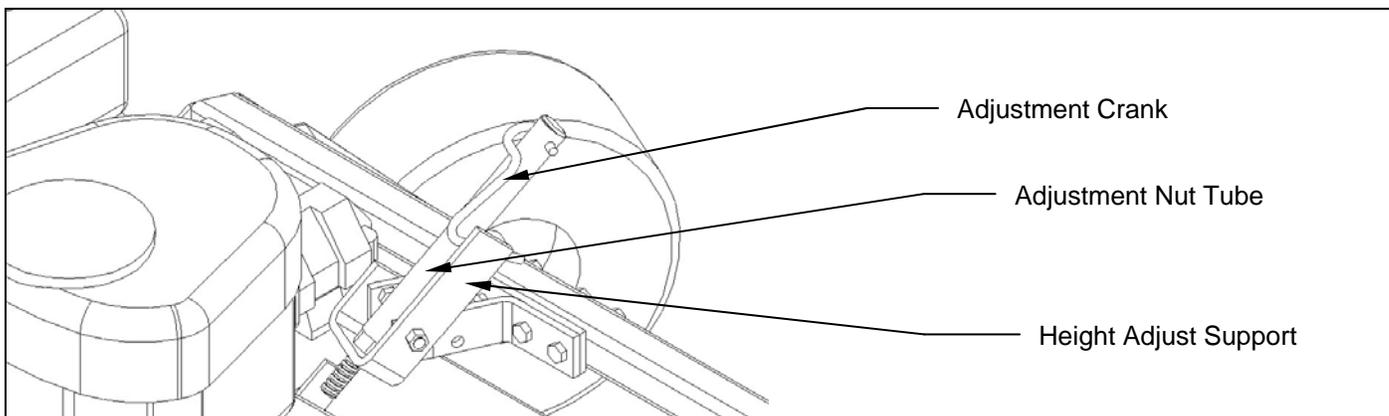


Figure 9: Securing Crank While Not In Use

### 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 fuel shut off valve which is located on the underside of the gas tank.

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 **slowly** engage mower blades clutch handle. (The clutch handle is located at the front of the mower under the engine.)

**Note:** Some belt squealing may occur on engagement. This is normal for a manual clutch engagement design.



**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 to an idle and **slowly** disengage the clutch handle.

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

Turn off fuel shut off valve which is located on the underside of the gas tank.

### 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.