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MANUAL PREVIEW

J. I. Case Operator's Manual

M10, MU10, MUS10
Power Mowers

Operator's Manual

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CA-O-M10 MWR+

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Figure 1. CASE M10 Mounted Mower on "311" Tractor



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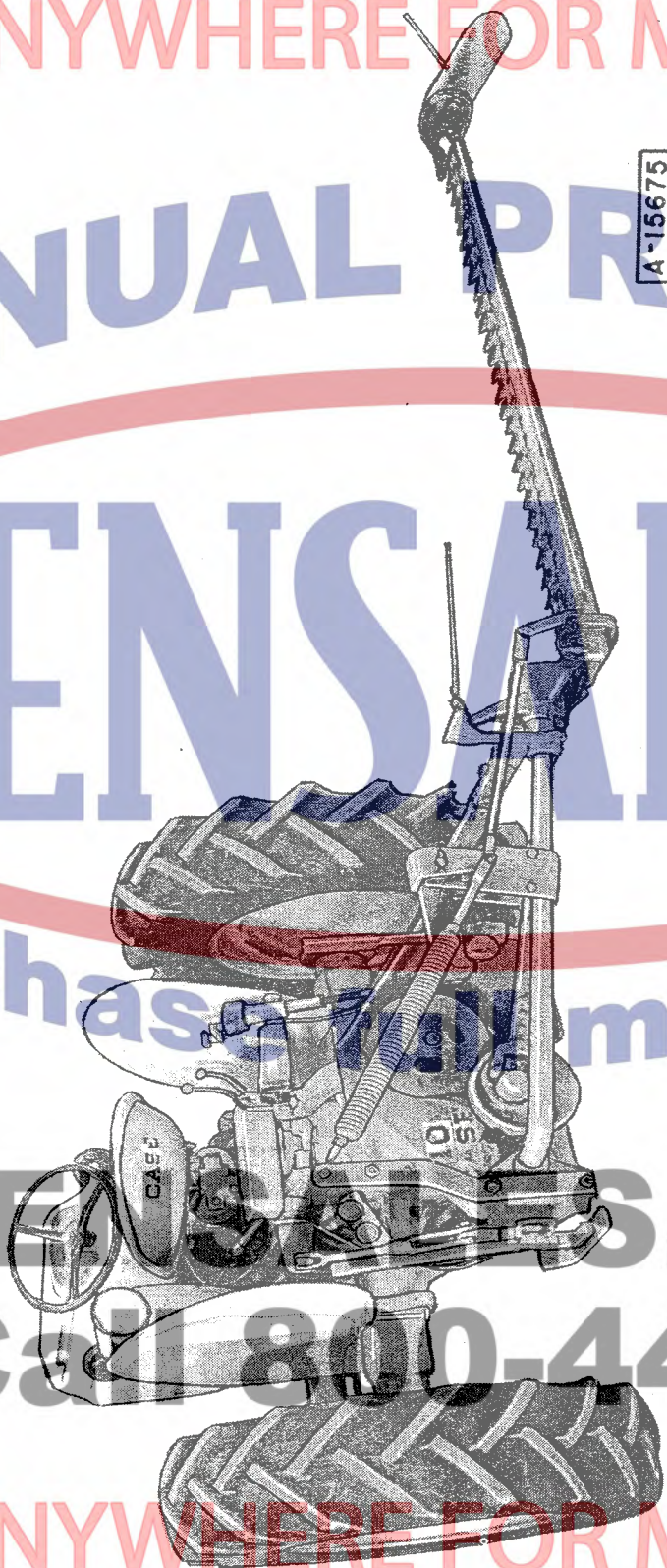


Figure 2. CASE MU10 Mounted Mower on "310" Tractor

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Figure 3. CASE MUS10 Mounted Mower on "310" Tractor

INTRODUCTION

The CASE M10, MU10 and MUS10 Mounted Mowers are designed for quiet, effective and economical performance for extended periods with a minimum of upkeep. The heavy duty frame and anti-friction bearings together with cushioned "V" belt drive are designed to withstand as well as minimize the vibration inherent in a Mower.

Both the inner and outer shoes float independently of the lift controls. The inner shoe can pass over a bump or drop in a depression, while the outer shoe continues to follow the contour of the ground – even on banks where the outer shoe may be higher or lower than the tractor wheels.

Long coil spring and gag lever mechanism is easily adjustable to provide positive floating action at all times.

Pressure lubrication is provided at the points of maximum speed or maximum movement.

A safety break-back feature protects the cutter bar against breakage should it strike an obstruction. The knife continues to operate – thus clearing the bar and it is only necessary to back the tractor to automatically latch the cutter bar back in its proper operating position.

Complete and simple adjustments are provided to assure the best possible mowing under all conditions.

The CASE M10 Mower is designed for use on CASE "400", "410", "401", "411", "301", "311", "VAC", "VAO15", "VAC14", "SC" and "DC" Tractors. The MU10 Mower is designed for use on CASE "300" and "310" tractors as well as some other makes equipped with three point hitch. The MUS10 Mower mounts on the same tractors as the MU10 mower but has a short drag bar for extremely narrow tractor wheel tread settings – see Page 23.

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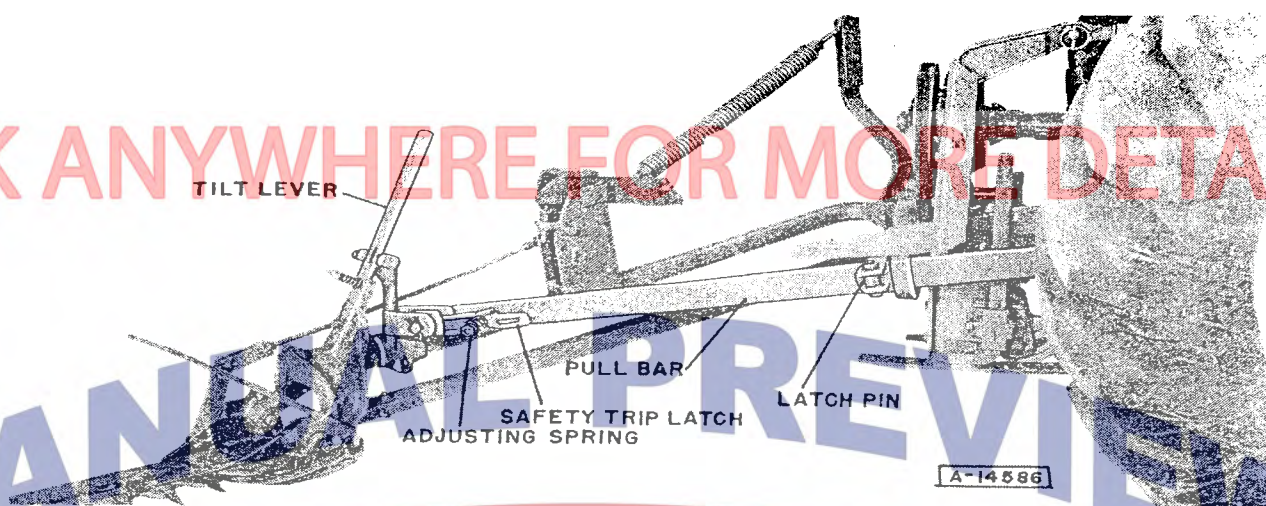


Figure 24. Pull Bar Safety Latch Adjustments

Adjust the spring tension against the latch so it will trip easily, then keep adding tension until the latch will hold for ordinary field conditions. CAUTION: If adjusted too tight, the safety feature of the release is rendered useless.

METAL SWATH BOARD AND ROD

The swath board and rod are used to make a clean path for the inner shoe to run in on the next round. The cut material must be moved over and away from the uncut crop. In some heavy crop conditions, this will place a strain on the swath board and rod if not correctly adjusted. The board must be flexible and can be adjusted by means of the coil spring which holds the board against the outer shoe as shown in Figure 8. The flexibility of the board will prevent damage when it is cramped sideways in heavy crops.

The grass rod is also flexible and will assist by holding the cut material above the board as it is turned toward the center of the swath. The height of the rod is adjustable by loosening the set screw shown in Figure 8, moving the rod up for tall crops and down for short crops and retightening the set screw.

REMOVING AND INSTALLING KNIVES

Removing the Knife from Cutter bar

With the cutter bar down in operating position, turn the fly wheel so knife is at the end of the "out" stroke. Insert a punch in the hole through lever of the pitman jaw adjuster and turn it

towards the outer end of the cutter bar. Raise the pitman jaws off the knife head ball and slide the knife out of the cutter bar.

Installing a Mower Knife

IMPORTANT: Mower knives must be handled carefully so they do not become bent. See Knife Care.

Oil and grease the cutter bar wherever the knife will touch when operating. Slide the knife into the cutter bar and work by hand until certain it will move freely. Replace the pitman jaws on the knife head ball and turn the adjusting lever back with a punch to close the jaws. Then grease the knife head ball with the pressure gun.

MAINTENANCE OF MOWER Belt Adjustment

The "V" belt used to drive the knife should always be operated at the proper tension. Belt slippage will cause unnecessary wear on the belt and the knife to slow down. While too tight a belt places a strain on the bearing causing them to wear prematurely.

To test for correct belt tension, place a thumb on the belt half way between the pulley centers and push down. The belt should deflect 1/2 inch from a straight line between the two pulley edges.

The belt tension is adjusted by turning the upper eccentric shaped bearing housing in the frame and pilot ring. To tighten the belt, loosen the 3 cap screws on the front side of the frame. This will free the pilot ring that holds the bearing housing in the frame. See Figure 6 which shows the cap screws. Insert a screw driver through opening in the pulley and anchor the end against the lug on the bearing housing. Then turn the drive pulley with a wrench, in a clockwise direction and test for tension as instructed above. When retightening the cap screws, tighten evenly to pull the pilot ring squarely against the bearing housing. Tighten just enough to keep the bearing housing from turning and thus loosening the belt.

CAUTION: NEVER REMOVE OR INSTALL THE BELT BY FORCING IT OVER THE PULLEY.

PITMAN

The knife head connection of the pitman requires no attention from the operator, other than lubrication, to keep in proper adjustment.

The pitman jaws clamp snugly to the knife head ball and any wear on the ball or jaws is automatically taken up by spring tension. See Removing and Installing knives.

CUTTER BAR AND PITMAN ALIGNMENT

Detaching Pitman from the Knife

1. Insert a punch through the hole in the lock lever and turn the lever to the right.
2. Lift the clamp jaws from the knife head ball. To attach a pitman - just reverse the operation.

ALIGNMENT OF CUTTER BAR

It is important that sickle and pitman always be in a straight line to increase the life of the cutting parts and give smooth operation.

To check the alignment:

1. Pull a string straight over the center line of the pitman, sickle ball and the sickle section rivets. See Figure 25.

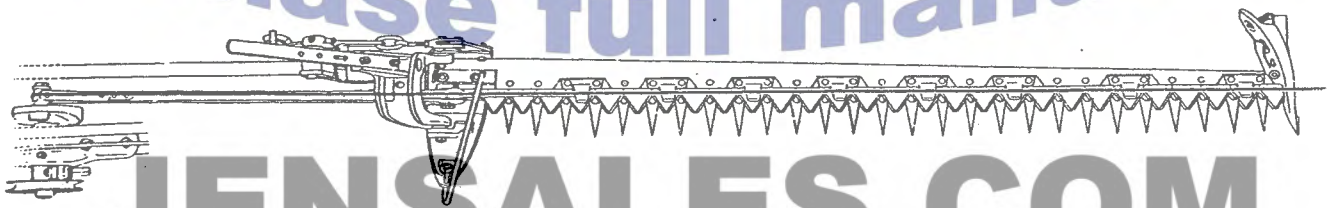


Figure 25. Checking Pitman Alignment with Cord

2. Properly align the cutter bar with the eccentric provided at the rear of the inner shoe.

PROPER POSITION OF THE CUTTER BAR

Proper position of the cutter bar when mowing is essential for good cutting and efficiency. To assure that the cutter bar is exactly at a right angle to the direction of travel when actually cutting it is necessary, when adjusting the cutter bar, to provide a compensating factor commonly referred to as "cutter bar lead".

When properly adjusted, the outer end of the cutter bar must be forward $\frac{3}{16}$ of an inch per foot of cutter bar - or about 1-1/2 inches on a 7 foot cutter bar.

When the mower is in operation, the cutter bar, due to the resistance of the grass, will tighten back enough to overcome this setting so that the cutter bar will be operating at a right angle to the direction of travel.



Figure 26. Positioning the Cutter Bar