



Operators Manual Models F50 And F54 Grader Blades

SECTION 1
Introduction
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TO POINT OUT IMPORTANT SAFETY PRECAUTIONS

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NEVER RAMP THE GRADER ASSEMBLY WITHOUT THE RAMPED END OF THE HOISTING ASSEMBLY PROPERLY MOUNTED TO THE SHAPED BRACKET WITH THE HOIST CARTRIDGE HOIST PROVIDED

Win. Form No. 9-99562

Figure 1. Grader Blade Components

Figure 2. Grader Blade Precautions

INTRODUCTION

The Model F50, 44" Grader Blade is designed for use on Case Model 120, 150, 155, 220 and 222 Compact Tractors. The Model F54, 54" Grader Blade is designed to operate on Case Model 190, T90, 195, 442 and 444 Compact Tractors. These grader blades are furnished as a complete package with all necessary attaching components. There is no requirement for additional mounting kits.

This manual covers recommended operating procedures, safety suggestions, adjustments, maintenance information, and installation instructions. Read this manual carefully before operating your grader blade. Your J I Case

Compact Tractor Dealer is well qualified to answer any further questions you might have concerning your grader blade. Also, if the need should arise, his Service Department with factory trained technicians, genuine Case replacement parts and the proper facilities is in a position to provide proper repairs in the shortest time possible.

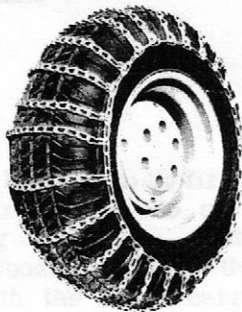
The definitions "Right, Left, Front and Rear" as used throughout this manual relate to the tractor and grader blade as the operator is seated facing forward in the normal operating position on the tractor.

OPERATION - ADJUSTMENTS - MAINTENANCE



LOOK FOR THIS SYMBOL
TO POINT OUT IMPORTANT
SAFETY PRECAUTIONS

1. The blade can be operated straight ahead or angled left or right. To adjust the angle, remove the locking pin (Ref. 8) and turn the blade in the desired direction. Insert the locking pin where the holes in the blade adapter bracket and undercarriage line up.



2. The blade is designed to move a variety of materials such as snow, loose dirt, and gravel. Tire Chains and Wheel Weights are available as optional equipment and are recommended for use with the grader blade.

3. The blade cutting edge can be reversed when one side wears down. Do not permit wear to extend into the mouldboard.
4. Oil each pivot point frequently to prevent rust and wear.
5. The blade skid shoes (Ref. 1) control the cutting height of the blade. Adjust the skid shoes on a hard and level surface. For snow removal, set the skid shoes lower than the blade cutting edge to give clearance of 1/8 to 1/4-inch between cutting edge and a smooth level surface. In other grading operations, adjust the skid shoes even with or slightly higher than the cutting edge, as desired.
6. The skid shoes should be rotated periodically so they wear evenly.



NEVER RAM THE MATERIAL TO BE MOVED.

7. When using the blade for snow removal, make certain the trip spring (Ref. 3) is properly installed as illustrated and is functional. If using the blade for other work such as leveling dirt or gravel the trip assembly should be removed and the mouldboard can be rigidly mounted to the adapter bracket with the short carriage bolt provided.

8. The yokes on the lift rods (Ref. 5) can be adjusted up or down as desired to increase the transport clearance or the amount the blade will lower below grade. To increase the below grade travel of the blade equally back the yokes further off the lift rods. To obtain additional transport clearance, equally turn the yokes further on the lift rods. Following adjustment of the lift rods, check the blade for proper level when in the grading position. See "Note" following paragraph 5 in INSTALLATION SECTION.

9. REMOVING BLADE FROM TRACTOR:

- a. With the blade in transport position, loosen the lift assist spring bolt until the spring can be easily removed from the lift lever cross shaft.
- b. Lower the blade to the ground and disconnect the clevis pins from the tractor lift levers.
- c. Remove the clevis pins from the rear hanger bars and back the tractor away from the grader blade assembly.

NOTE To prevent the clevis and safety pins from becoming lost, they should be placed back in their normal locations on the blade as illustrated.

10. REMOUNTING BLADE ON TRACTOR:

- a. Drive the tractor over the undercarriage so the rear hanger bars line up with the mounting lugs at the rear of the tractor frame. Connect the hanger bars to the tractor mounting lugs with the two 5/8" clevis pins and safety pins.
- b. Lower the tractor implement lever until the clevis on the lift rods align with the desired mounting hole and install the two 1/2" pins and safety pins. See "Note" following paragraph 5 in INSTALLATION SECTION.
- c. Raise the dozer into the transport position and hook the lift assist spring over the implement lever cross shaft. Lower the grader to the ground and tighten the spring bolt until the desired lifting ease is obtained.

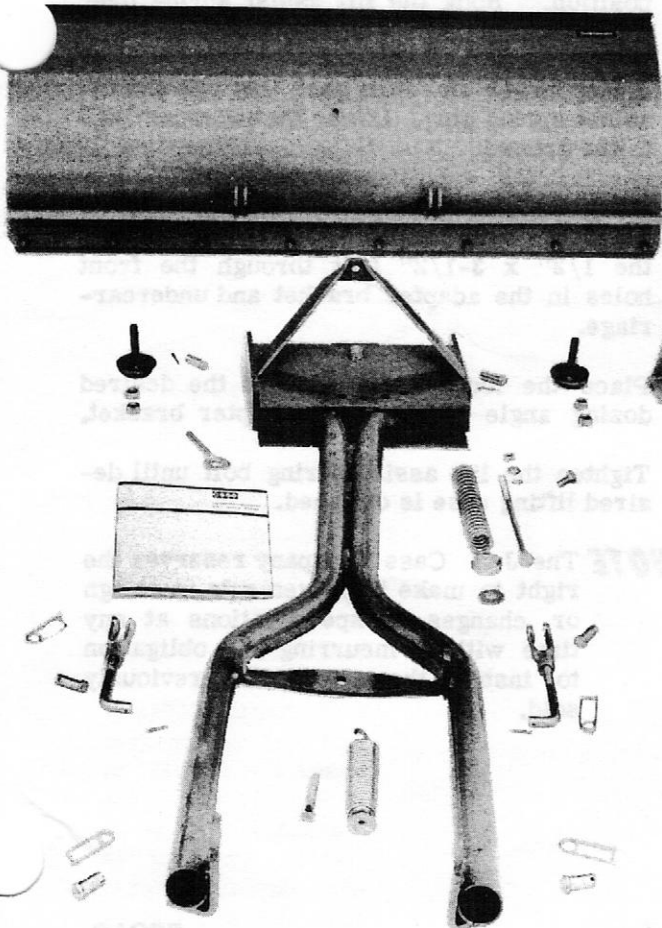


Figure 1. Grader Blade Components

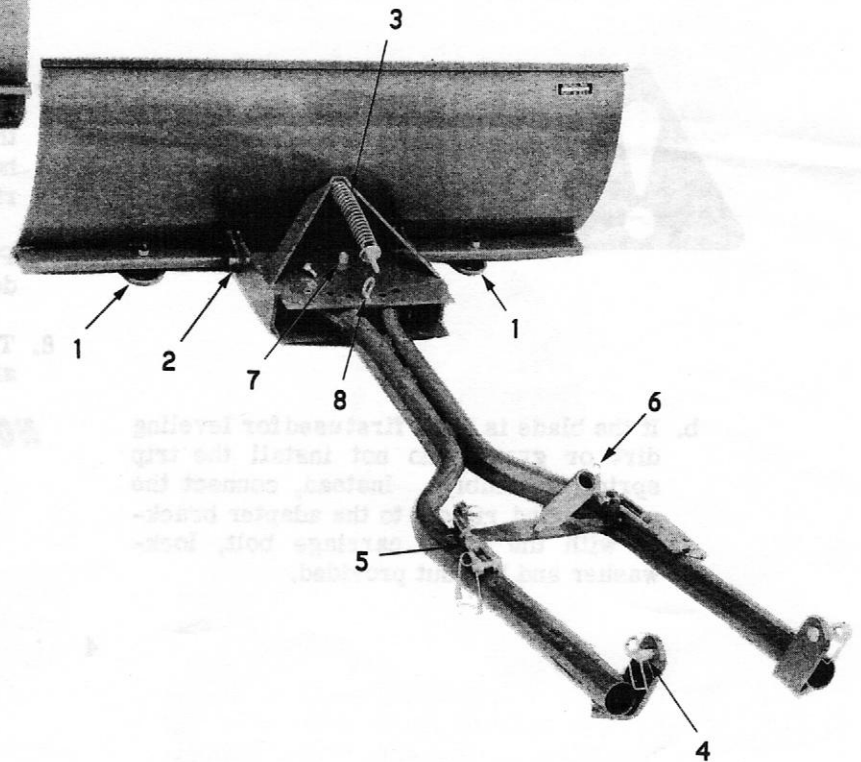
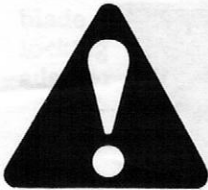


Figure 2. Grader Blade Preassembled

INSTALLATION

- A. Locate the tractor on a smooth and level surface. Check tires for equal and recommended pressure.
- B. The following installation sequence is the same whether the tractor is equipped with hydraulic or mechanical lift.
- C. THE NUMERICAL REFERENCES ON THE ILLUSTRATION CORRESPOND TO THE INSTALLATION INSTRUCTION PARAGRAPH NUMBERS.
1. Connect the two skid shoes to the mould-board using four 1/2" hex nuts.
 2. Attach the adapter bracket to the mould-board with two 1/2" x 1-1/2" clevis pins and cotter pins.
 - a. If the grader blade is to be first used for snow removal, install the trip spring as illustrated by inserting the 3/8" x 1" carriage bolt through the mouldboard and secure the spring behind the adapter bracket with the plain washer, cup washer and hex nut.



CAUTION Be sure to place the plain washer inside of the cup washer before positioning over the spring.

- b. If the blade is to be first used for leveling dirt or gravel, do not install the trip spring assembly. Instead, connect the mouldboard rigidly to the adapter bracket with the short carriage bolt, lock-washer and hex nut provided.

3. Roll the tractor over the undercarriage and connect the rear hanger bars to the lugs on each side of the tractor main frame which are located just in front of the transmission.
4. Turn the adjusting clevis about half way onto the threads of the two lift rods. Connect the lift rods to the bracket near the center of the undercarriage and secure with cotter pins. First, connect one clevis to one of the three holes in the tractor mechanical or hydraulic lift lever with clevis pin and safety pin. Adjust the other clevis until it lines up with the same lift lever hole on the other side of the tractor and secure with clevis pin and safety pin.

For maximum transport clearance and below grade travel, connect the lift rods to the front hole in the tractor lift levers. If maximum ease of lift is desired, connect the rods to the rear hole in the lift levers.

5. Raise the undercarriage into the transport position. Hook the lift assist spring over the center of lift lever cross shaft. Insert the 3/8" x 5" bolt through the undercarriage center brace and turn part way into the lift assist spring plug. Lower the undercarriage to the ground.
6. Slide the mouldboard and adapter bracket assembly onto the undercarriage and insert the 1/2" x 3-1/2" bolt through the front holes in the adapter bracket and undercarriage.
7. Place the locking pin through the desired dozing angle holes in the adapter bracket.
8. Tighten the lift assist spring bolt until desired lifting ease is obtained.

NOTE The J I Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.