

3-16-74



**Operator's Manual
H26 3 Point Hitch
H27 Sleeve Adaptor**

Win. Form No. 9-99712



Model H26 3-Point Hitch and Model H27 Sleeve Adaptor,
shown on Case Model 444 Compact Tractor.

INTRODUCTION

The Model H26 3-Point Hitch, Figure 2, is specifically designed for mounting on Case Model 442 and 444 Compact Tractors, serial number 9646800 and above, which are equipped with Hydraulic Lift. Use the Model F26 3-Point Hitch for Model 442 and 444 tractors prior to this serial number. The 3-Point Hitch is operated by the Hydraulic Lift control lever, Figure 1.

The Model H27 Sleeve Adaptor, Figure 3, converts the 3-Point Hitch to accept sleeve-type mounted implements.

This manual covers recommended operating procedures, safety suggestions, adjustments, maintenance information and installation instructions. Read this manual carefully be-

fore using your 3-Point Hitch or Sleeve Adaptor. Your J I Case Compact Tractor Dealer is well qualified to answer any further questions you might have concerning these attachments. Also, if the need should arise, his Service Department with factory trained technicians, genuine Case replacement parts and the required 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, 3-Point Hitch and Sleeve Adaptor 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 Model H26 3-Point Hitch is designed in accordance with ASAE Specification, Category "O" and will accommodate all attachments manufactured to this standard.
2. When using the hitch for operating certain relatively hard pulling or heavy rear mounted attachments such as a mould-board plow, disc, grader blade, rotary tiller, etc. performance will be improved by adding weight to the front end and the rear wheels of the tractor. A Model H18 Front Counterweight Mounting Kit is available for your tractor. It uses the Model D10 Rear Wheel Weights for Model 442 and 444 tractors.
3. The three point hitch uses the same control lever as the hydraulic lift. When using the three point hitch, raise all attachments into transport and turn "Down-Stop" control indicator all the way down so the implement lift cylinder

is held in the extended position. This holds center or front mounted attachments in a raised position while using the rear hitch. If the "Down-Stop" is not turned all the way down, you may experience a slight "delay" in the raising action of the hitch. Likewise when only front or center mounted attachments are operated, the 3-point hitch arms can be "tied" in the raised position to prevent movement.

Allow the hydraulic system to "warm up" before operating.

4. The Model H26 3-Point Hitch is furnished with a double-acting cylinder allowing "down-pressure" to be placed on the attachment.

The hitch is raised and lowered with the tractor hydraulic lift lever. See Figure 1. Pull back on the lift control lever to raise the hitch. To lower the hitch or apply "down-pressure" push the lever

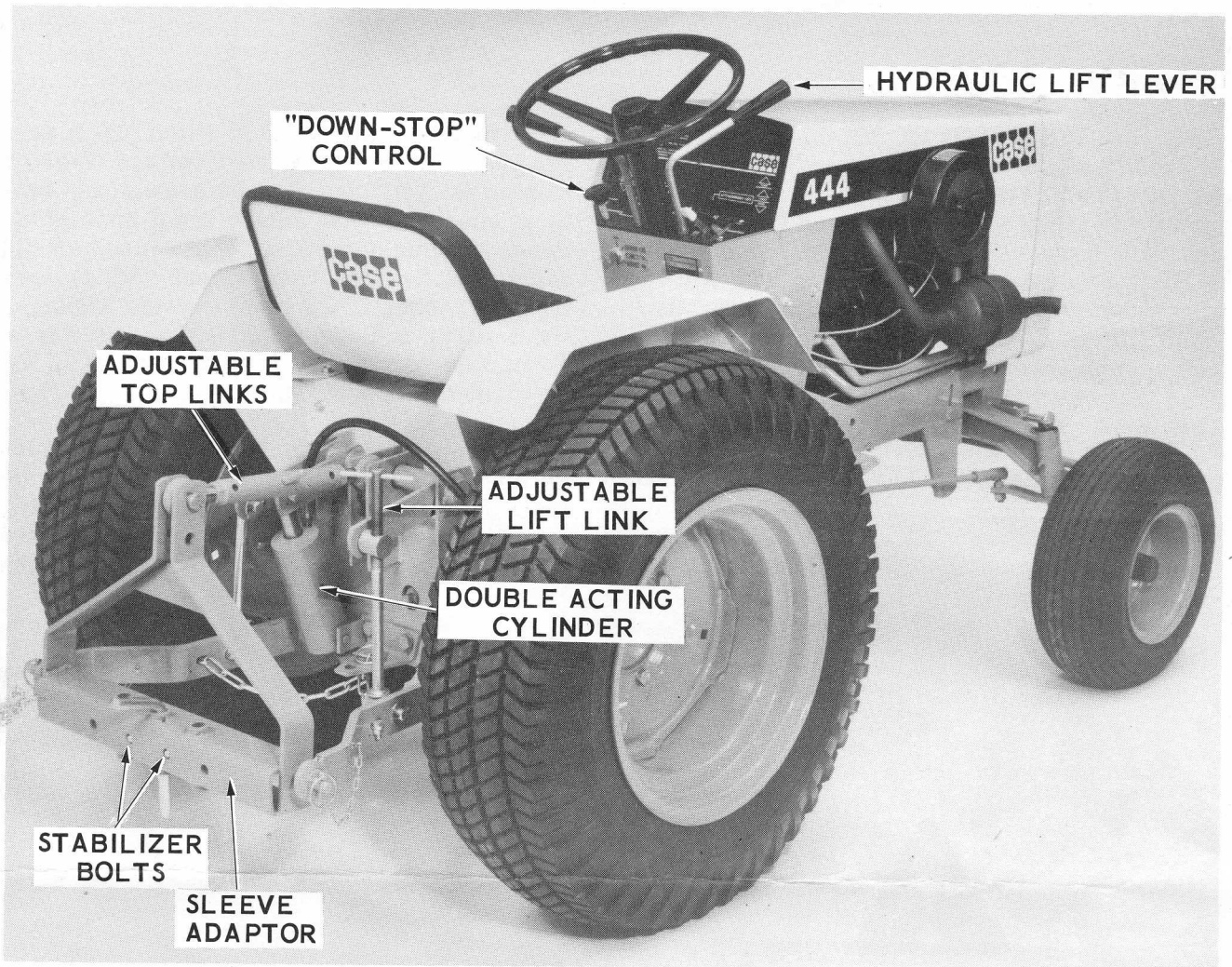


Figure 1. Identification of Principle Components and Controls

ahead to the first stop position. The lift control valve has a centering spring which returns the lever to neutral from either the "raise" or the "lower" and "down-pressure" positions.

Push the lever further ahead to the second stop position to provide "floating" action for the attachment. The control lever will remain in the "float" position until it is manually returned to neutral. The "float" position is recommended for tiling or plowing to reach desired depth and then place the control lever in "float".

5. The 3-Point Hitch right hand lift link, "A", Figure 2, is adjustable to side level a mounted attachment.
6. The adjustable top link, Reference "B" is used to set the fore and aft pitch of the attachment. There are also three mounting hole options on the hitch frame for the top link.

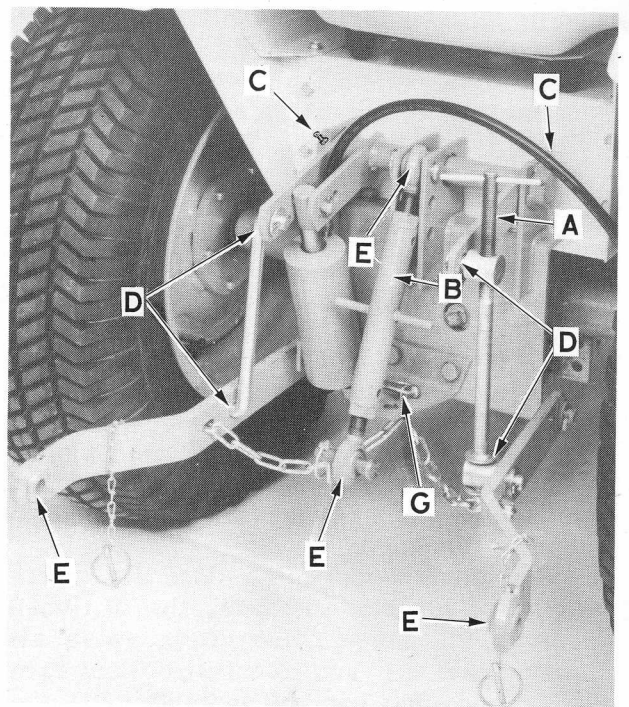


Figure 2. Model H26 3-Point Hitch Assembly

7. Always keep the stabilizer chain, Reference "G", anchored to the hitch's lower draft arms and tractor tow bracket to prevent interference with rear wheels.
8. There are two lubrication fittings, Reference "C", on the hitch pivot shaft. These fittings should be lubricated daily when in use.
9. Oil the hitch pivot points, Reference "D", and attachment mounting pins daily when in use. Do not, however, lubricate the hitch ball joints, Reference "E", as this may cause abrasive foreign material to lodge between the ball and retainer.
10. Check oil level in tractor hydraulic reservoir periodically. Maintain level between two and three inches from the top of the filler opening. Refer to tractor "Operator's Instruction Manual" for proper oil specifications.
11. A certain amount of oil will normally accumulate at the rod end as well as the base cap of the lift cylinder during operation which provides lubrication for the
12. There are three mounting points, Reference "F", Figure 3, on the sleeve adaptor to permit centering or offsetting implements. When mounting a plow, be careful to select the mounting position which will allow the share to cut cleanly to the edge of the previous furrow or to the inside of the right rear wheel.
13. Four implement stabilizing bolts, Reference "G", are furnished with the sleeve adaptor for use at the four threaded holes, to eliminate the lateral pivot of mounted attachments if desired. A plow should not be stabilized at this point.
14. Avoid any possibility of a painful accident. Always lower any rear or front mounted implement to the ground when leaving the tractor unattended.
15. After the first few hours of operation, check the four bolts which attach the hitch to the tractor transmission for tightness.

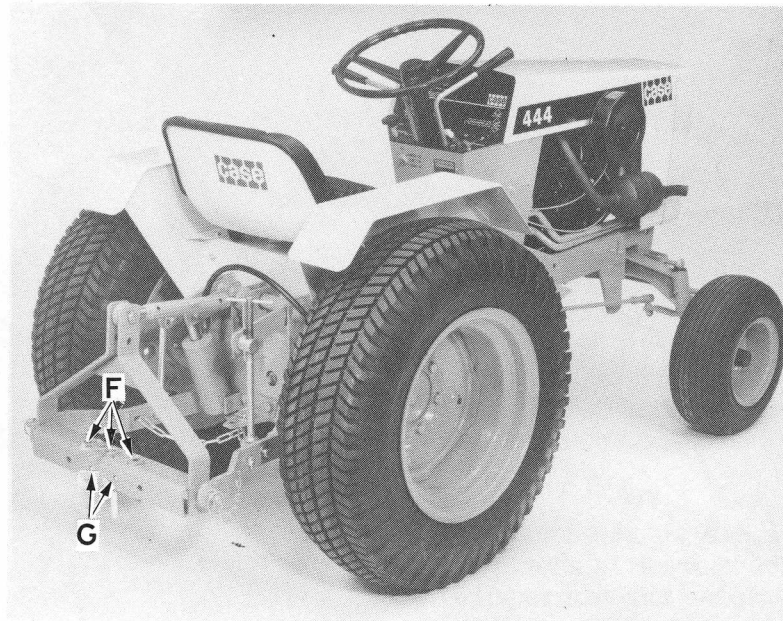


Figure 3. Model H27 Sleeve Adaptor

INSTALLATION

NOTE The 3-Point Hitch attachment is intended for dealer installation only.

- A. Check tires for equal and recommended pressure.
- B. To install and operate the 3-Point Hitch the tractor must be equipped with Hydraulic Lift.
- C. This hitch has been preassembled to the furthest extent practical in order to minimize your installation time. As a result of shipping vibrations and initial operation, bolts and hydraulic connections will sometimes loosen. Check all connections carefully during initial installation and operation and again after the first few hours of use.
- D. Locate the tractor on a clean surface. Set the 3-point hitch assembly on a clean surface and leave the hoses and fittings capped until they are installed to keep dirt or foreign material from entering.

1. Remove the tow bracket from the transmission housing.
2. Remove the two rear seat support mounting bolts and lockwashers. Position the 3-Point Hitch Assembly on the seat support and transmission housing and secure with the same two bolts and lockwashers. See Figure 4.
3. Reinstall the tow bracket using the same bolts and lockwashers. Connect the center link on the "stabilizer chain" to the slotted hole in the tow bracket.

NOTE It may be necessary to file or grind off at the left side of the tow bracket to provide clearance for the cylinder mounting lug.

4. Place a clean pan under the tractor travel and lift valve. Remove the drain plug shown in Figure 5 to drain the system. Leave the pan under the tractor while disconnecting and installing the hydraulic lines to keep oil from dripping on the floor.

NOTE The system can also be drained by removing the hydraulic motor tubes (removal of these tubes is required anyway) and placing the travel lever in forward or reverse.

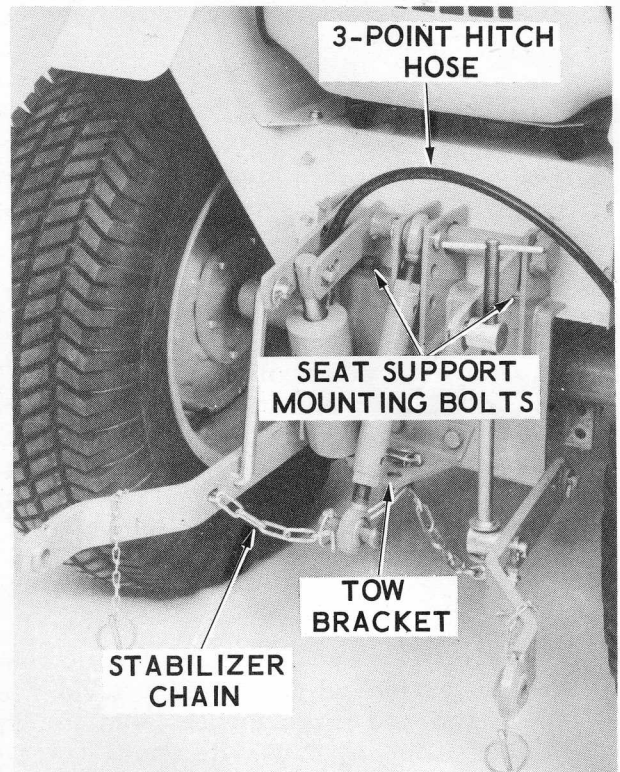


Figure 4. Installing the 3-Point Hitch

5. Disconnect the hydraulic lift tubes from the travel and lift valve and remove the fittings from the lift ports.

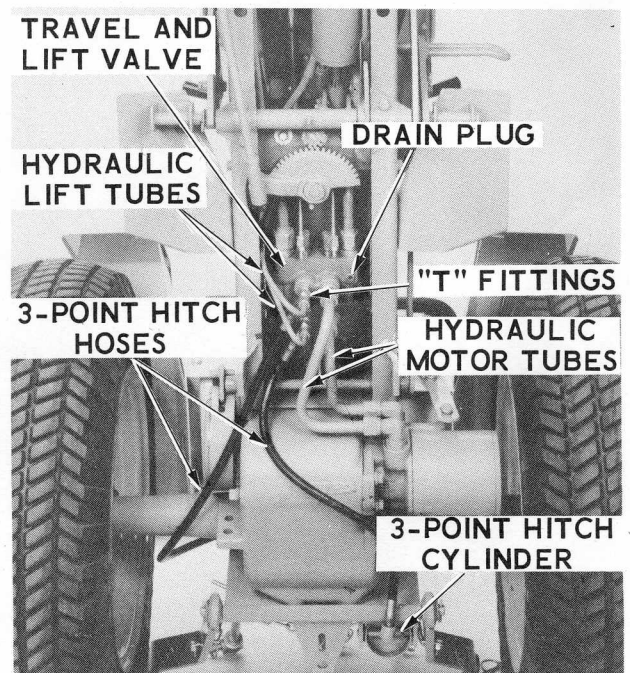


Figure 5. Hydraulic Connections

6. Unless already done, remove the tubes between the valve and hydraulic motor. In some cases it might also be necessary to remove the fittings from the valve for clearance to install the "T" fittings.
7. Turn the "T" fittings into the lift ports of the valve. With the fittings facing towards the right rear corner of the tractor as shown in Figure 5, tighten the swivels against the valve housing.
8. Tighten the hoses into the 3-Point Hitch cylinder ports as shown in Figures 4 and 5 and connect them to the "T" fittings on the valve.
9. Connect the hydraulic lift tubes to the "T" fittings.
10. Install the hydraulic motor tubes.
11. Carefully strain the oil and pour back into the reservoir.

NOTE If the oil appears contaminated it should be discarded and replaced with new 20W-40 motor oil.

12. Figure 6 illustrates the Model H22 Sleeve Adaptor installed on the 3-point hitch. Note that two optional mounting holes are provided for the 3-point hitch top link.
13. Start the tractor and operate the cylinder to full open and closed positions several times to expel all air from the system. Shut off the tractor and check for oil leaks at all connections. Check the oil level in the reservoir and add if necessary to bring to between 2 and 3 inches from the top of the filler opening. Refer to the tractor "Operator's Instructions Manual" for proper oil specification.

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.



Figure 6. Model F27 or H27 Sleeve Adaptor

