

MAIN FRAME

	Page Number
BOB-TACH	
Disassembly and Assembly	5-13
Removal and Installation	5-11
Tilt Cylinder Rod End Seal	5-12
FUEL TANK (S/N 19999 & Below)	
Removal and Installation	5-15
FUEL TANK (S/N 20001 & Above)	
Fuel Tank Sender Switch	5-17
Removal and Installation	5-16
LIFT ARMS	
Removal and Installation	5-9
OPERATOR CAB (S/N 19999 & Below)	
Removal and Installation	5-1
OPERATOR CAB (S/N 20001 & Above)	
Removal and Installation	5-3
OPERATOR CAB GAS CYLINDER	
Removal and Installation	5-6
REAR DOOR	
Door Latch Adjustment	5-7
Removal and Installation	5-8

**MAIN
FRAME**



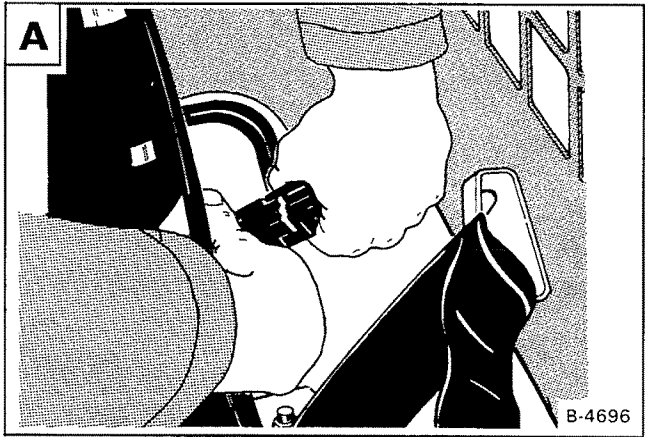
5 MAIN FRAME

OPERATOR CAB (S/N 19999 & Below)

Removal and Installation

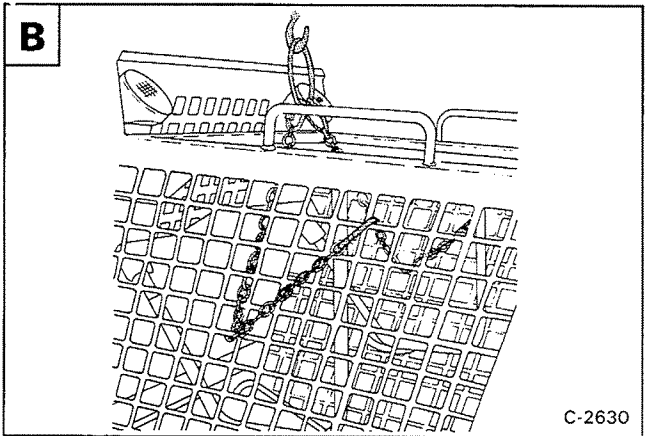
Lift and block the loader (See Page 1-2 for the correct procedure).

Disconnect the electrical harness **A**.



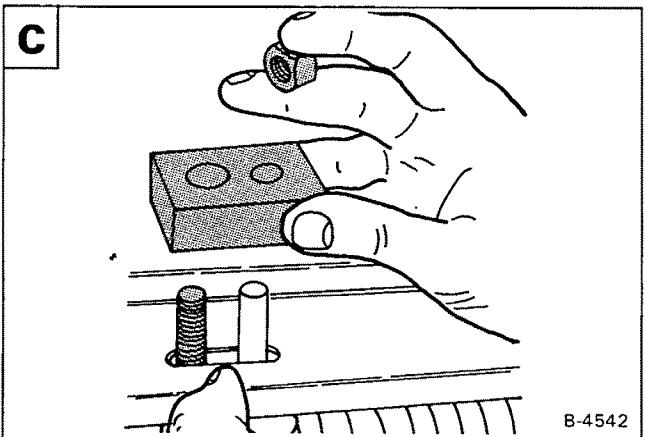
Raise the operator cab.

Fasten a chain and chain hoist to the operator cab **B**.



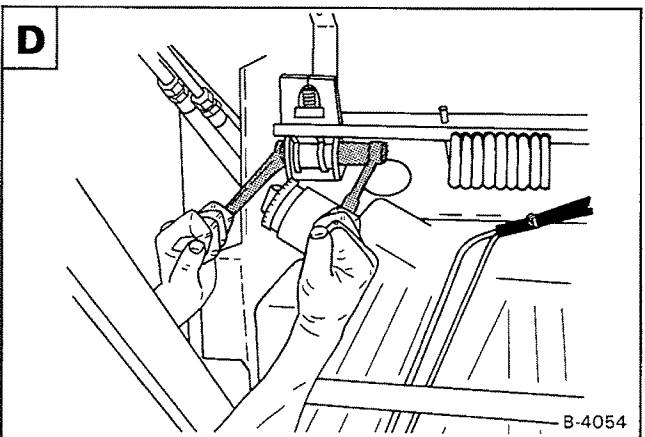
Remove the bolt and nut at the spring block. Remove the spring block (both sides) **C**.

Installation: Tighten the bolt and nut to 65-70 ft.-lbs. (88-95 Nm) torque.



Remove the nuts at the pivot bolt for the operator cab (both sides) **D**.

Installation: Tighten the bolt and nut to 25-35 ft.-lbs. (34-47 Nm) torque.



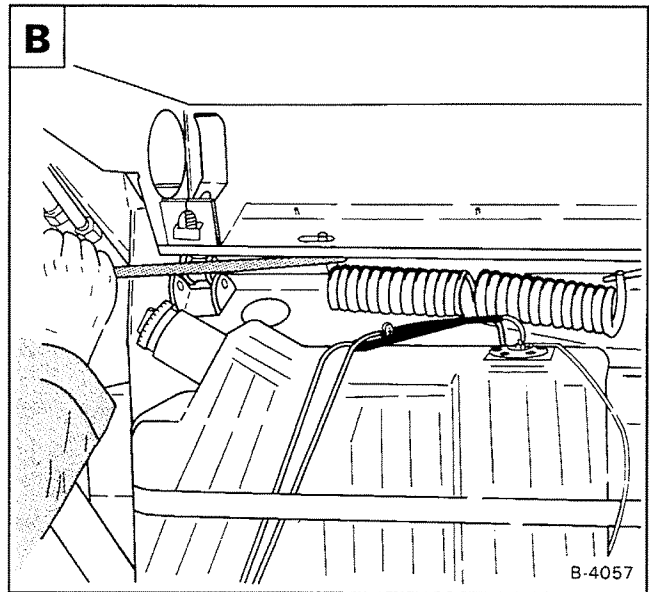
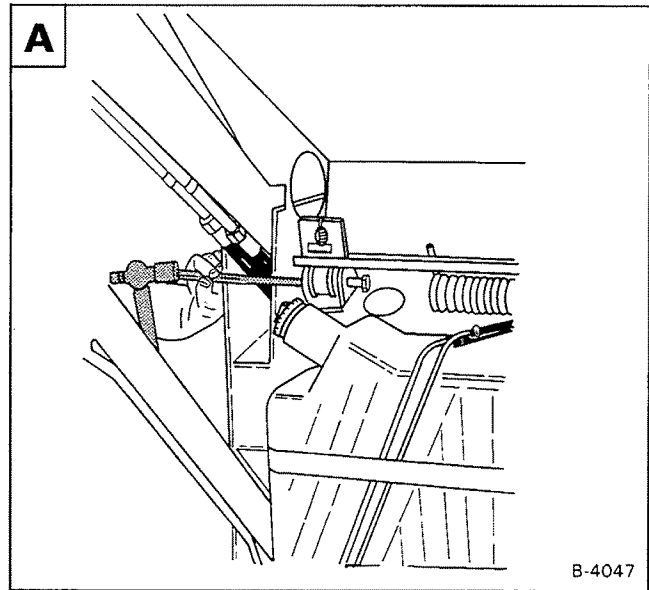
OPERATOR CAB (S/N 19999 & Below) (Cont'd)

With the chain hoist tight.

Use a punch and hammer and remove the bolts (both sides) at the pivot bracket **A**.

Use a pry bar, pry the springs out of the operator cab **B**.

Lift the operator cab with the chain hoist and remove it from the loader.



OPERATOR CAB (S/N 20001 & Above)

Removal and Installation

Remove the stop blocks at the rear of the operator cab **A**.

IMPORTANT

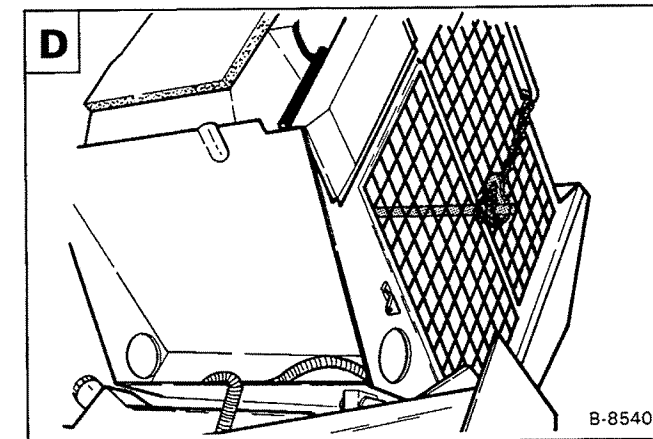
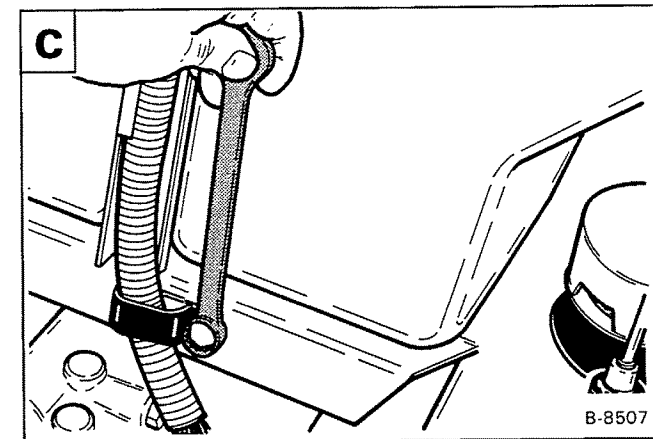
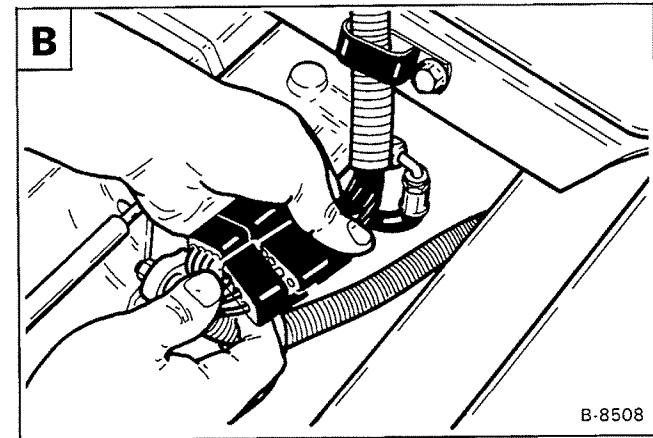
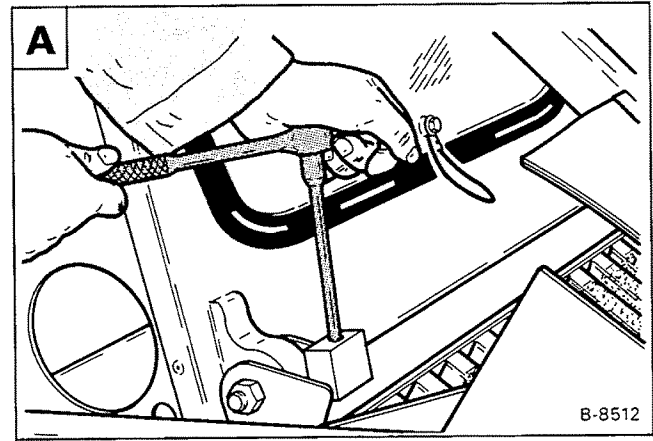
After the stop blocks are removed and the operator cab has a rear window, REMOVE THE REAR WINDOW to prevent damage to the rear window.

Raise the operator cab (See Page 1-7 for the correct procedure).

Disconnect the electrical harness **B**.

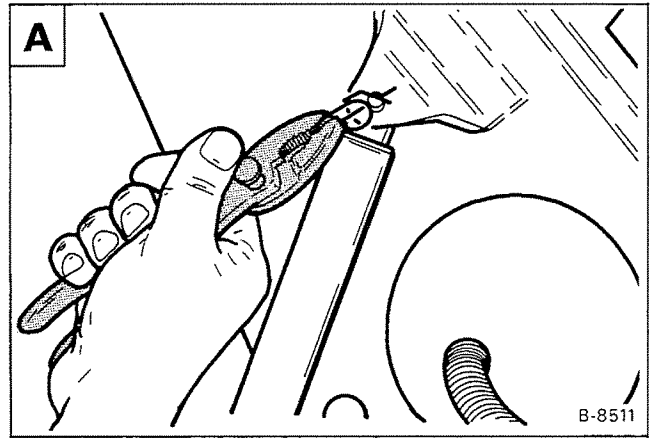
Remove the electrical harness clamp **C**.

Install a bar through the operator cab balance point. Install a chain and chain hoist **D**.



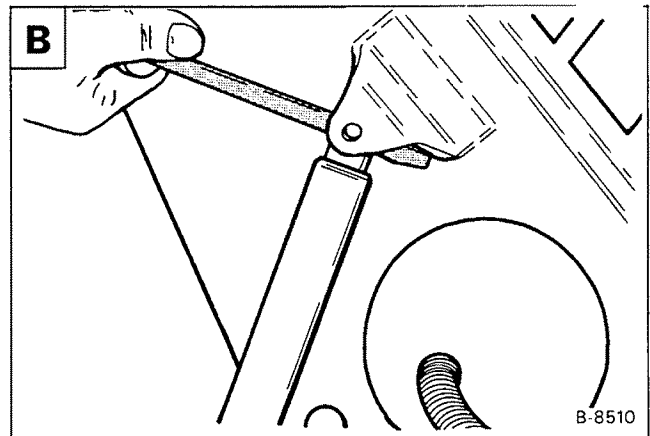
OPERATOR CAB (S/N 20001 & Above) (Cont'd)

Remove the clip at the upper pivot pin for the gas cylinder **A**.

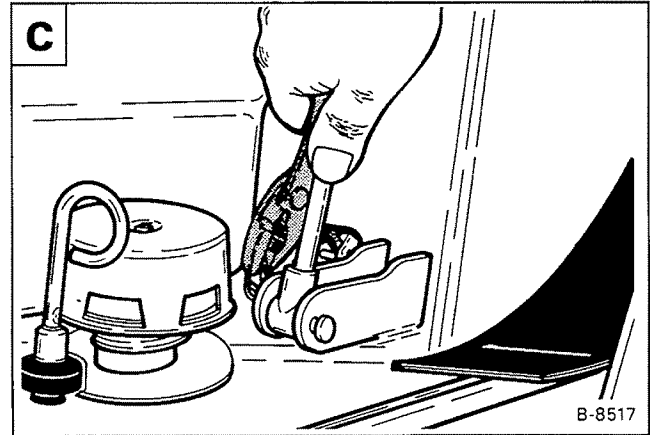


Remove the upper pivot pin for the gas cylinder (both sides) **B**.

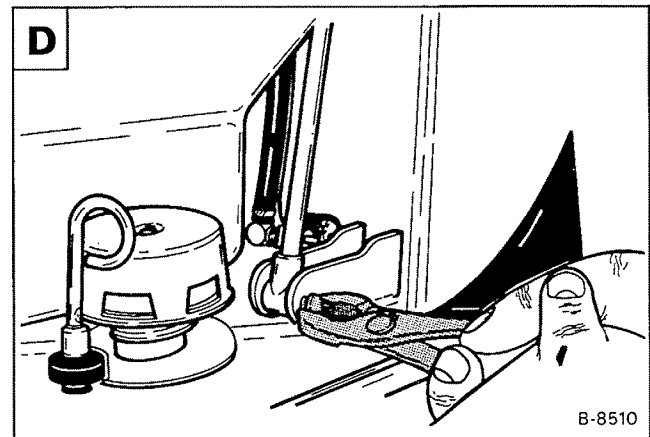
Installation: Install the lower pivot pin first, use a screwdriver to hold the gas cylinder and install the top pivot pin.



Remove the clip at the lower pivot pin **C**.

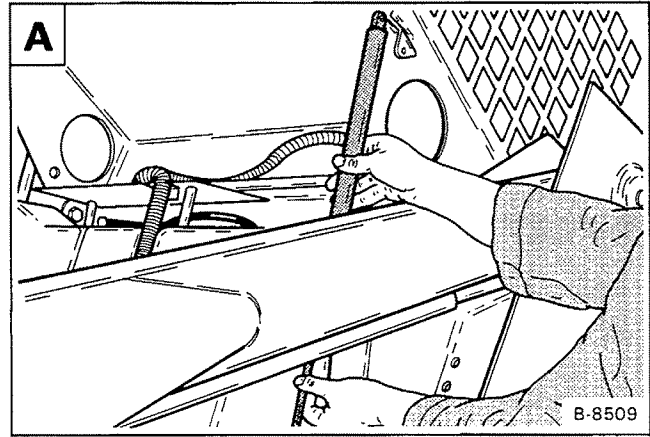


Remove the lower pivot pin (both sides) **D**.



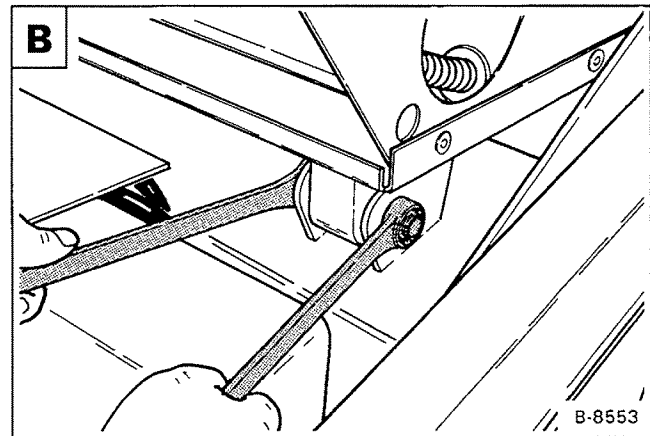
OPERATOR CAB (S/N 20001 & Above) (Cont'd)

Remove the gas cylinder (both sides) **A**.



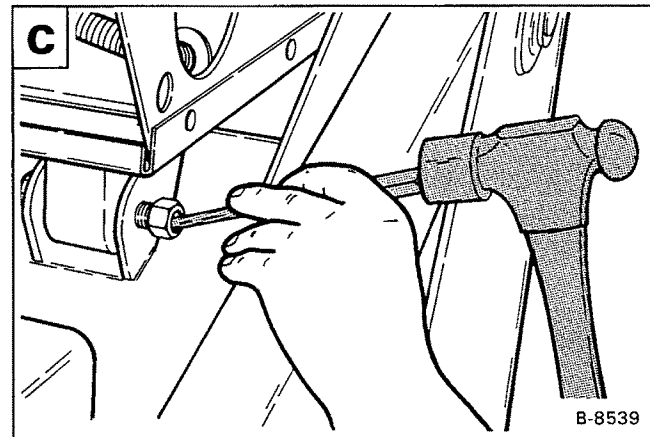
Remove the nuts from the pivot bolts **B**.

Installation: Tighten the pivot bolts to 25-35 ft.-lbs. (34-47 Nm) torque.



Use a punch to remove the pivot bolt (both sides) **C**.

Lift the operator cab from the loader using the chain hoist.



OPERATOR CAB GAS CYLINDER

Removal and Installation

Remove the stop blocks at the rear of the operator cab **A**.

IMPORTANT

After the stop blocks are removed and the operator cab has a rear window, REMOVE THE REAR WINDOW to prevent damage to the rear window.

Raise the operator cab (See Page 1-7 for the correct procedure).

Remove the clip and the upper pivot pin at the gas cylinder **B**.

Remove the clip and lower pivot pin at the gas cylinder **C**.

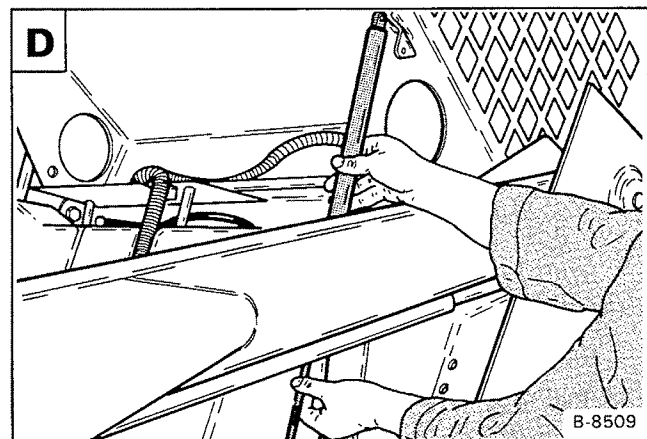
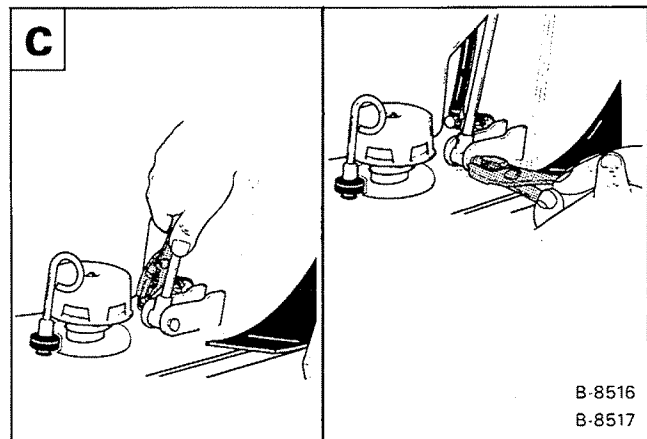
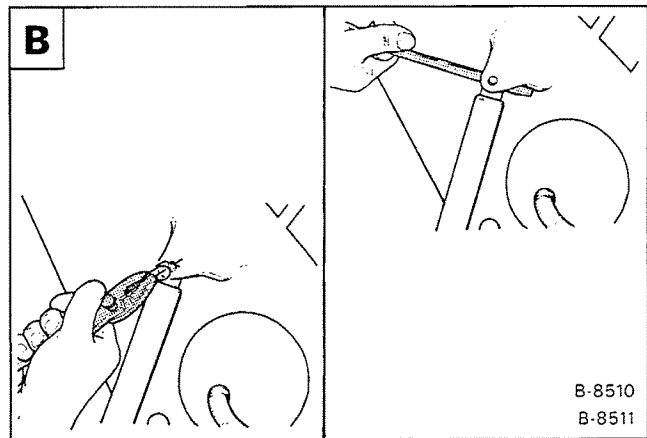
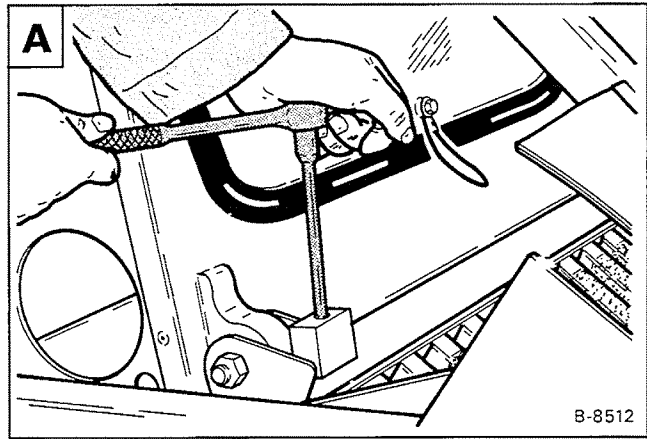
Installation: Install the lower pivot pin first, use a screwdriver to hold the gas cylinder down and install the top pivot pin.

Remove the gas cylinder from the mounting bracket **D**.



WARNING

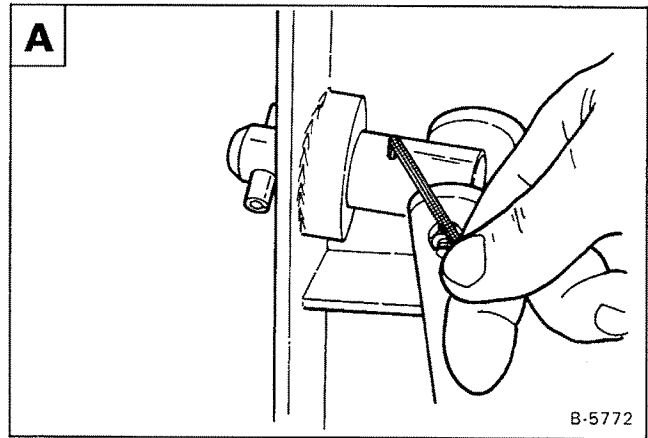
Gas cylinder holds the rod under high pressure. Never open. To unfasten see directions in Service Manual to avoid loader damage or personal injury.



REAR DOOR

Door Latch Adjustment

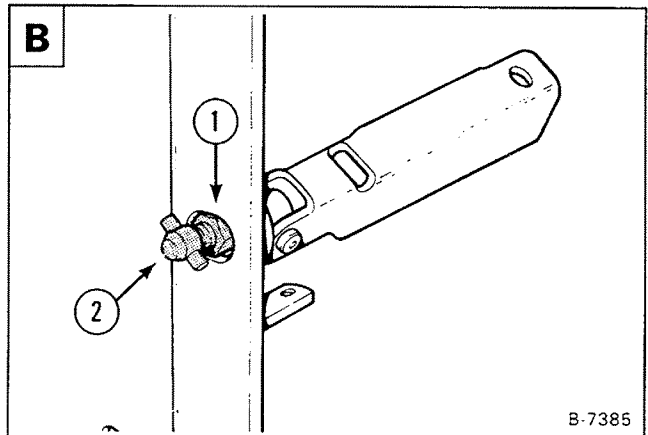
Loosen the set screw **A**.



Loosen the nut (Item 1) **B**.

Turn the bolt (Item 2) in or out **B**, until the door contacts both the top and the bottom of the loader frame (Item 1) with the lever in the latched position **C**.

NOTE: It takes approximately 50 lbs. of force to push the lever down when the latch is correctly adjusted.

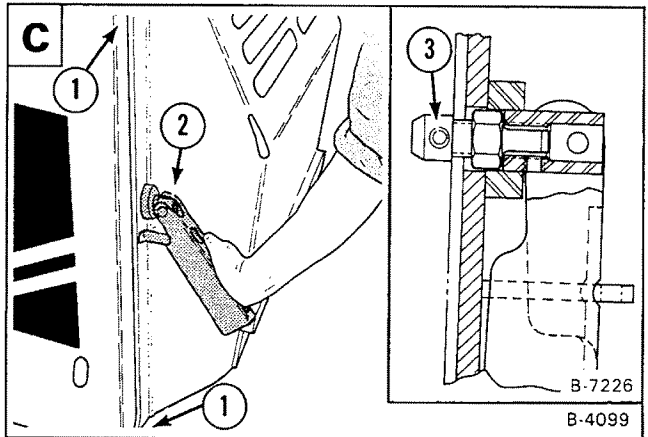


Lubricate the wear surface (Item 2) **C**.

NOTE: With the set screw up, the flanges at the bolt (Item 3) must be to the side so that the set screw aligns with the flat surface at the end of the bolt **C**.

Tighten the set screw **A**.

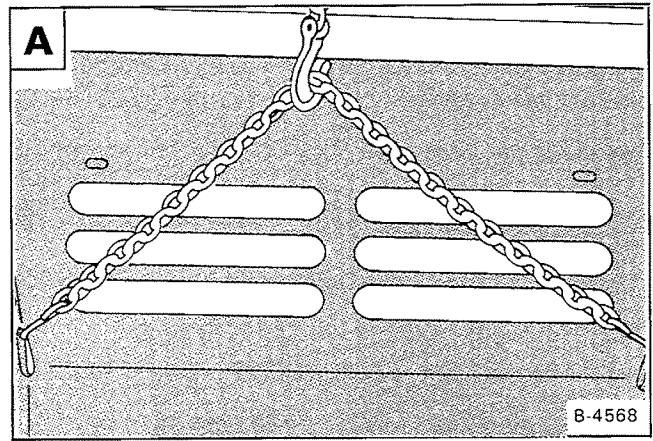
Tighten the nut (Item 1) to 65-70 ft.-lbs. (88-95 Nm) torque **B**.



REAR DOOR (Cont'd)

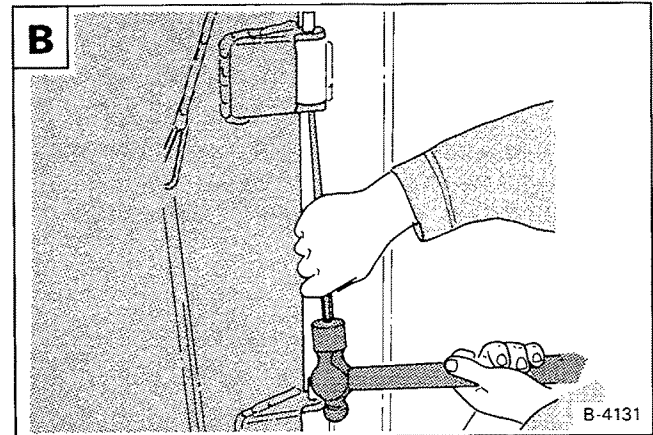
Removal and Installation

Install a chain hoist on the rear door **A**.



Use a punch and remove both hinge pins **B**.

Lift the rear door from the loader frame.



LIFT ARMS

Removal and Installation

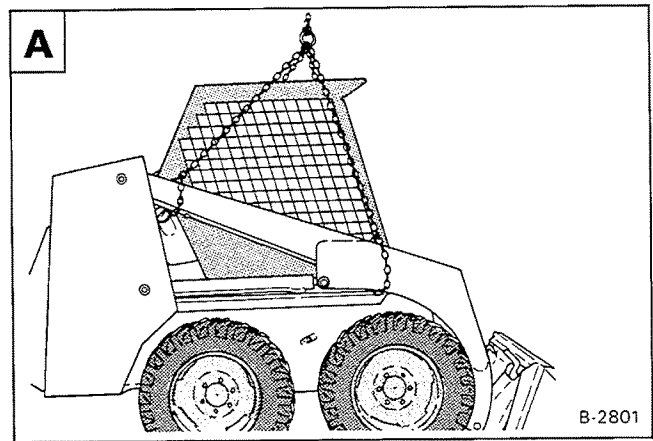
Lift and block the loader (See Page 1–2 for the correct procedure).

Roll the Bob-Tach fully forward.

Stop the engine. Activate the hydraulic controls to release the hydraulic pressure.

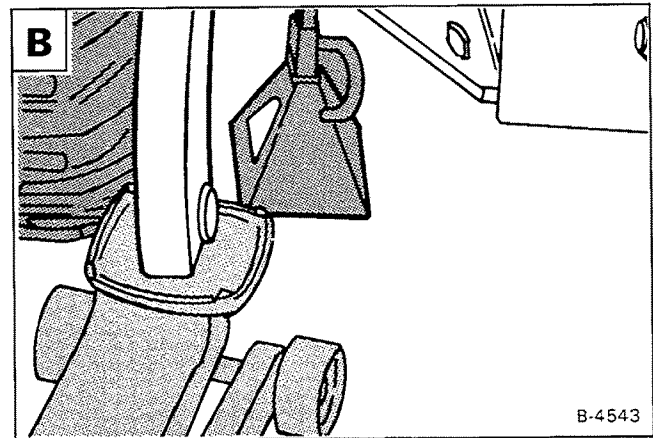
Remove the Bob-Tach from the lift arms (See Page 5–11).

Fasten chains and a chain hoist to the lift arms **A**.



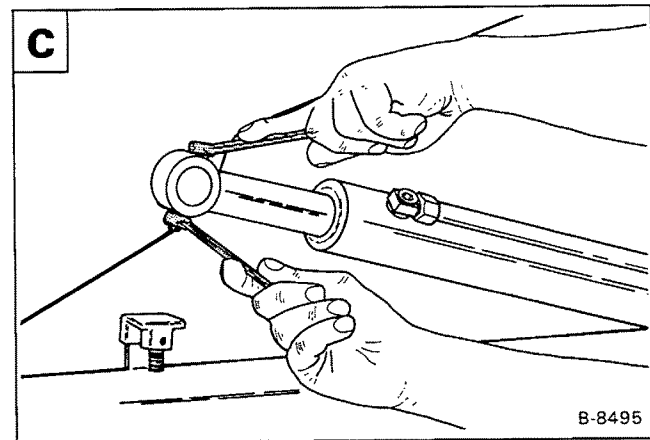
Put a floor jack under the lift arms **B**.

Raise the lift arms, with the floor jack, until the pivot pin at the rod end of the lift cylinders can be removed.



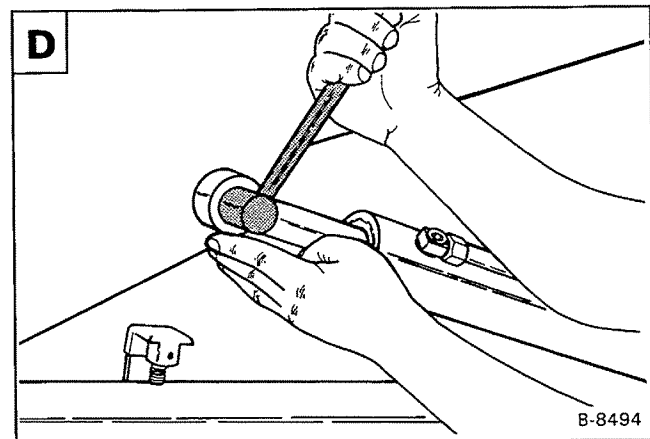
Remove the lock nut and bolt **C**.

Installation: Tighten the bolt and nut to 18-20 ft.-lbs. (24-27 Nm) torque.



Remove the pins at the rod end of the lift cylinders (both sides) **D**.

Lower the lift arms. Remove the floor jack.

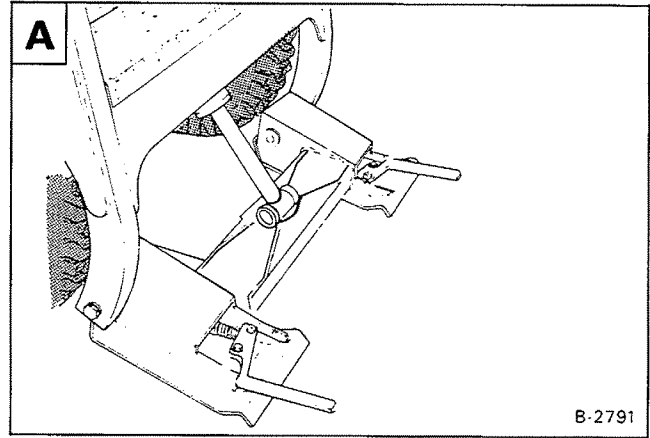


BOB-TACH

Removal and Installation

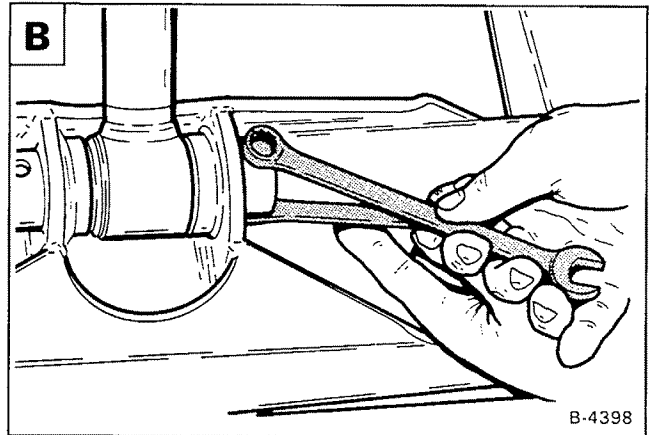
Tilt the Bob-Tach fully forward until the front edge is on the floor **A**.

Stop the engine. Activate the hydraulic controls to release the hydraulic pressure.

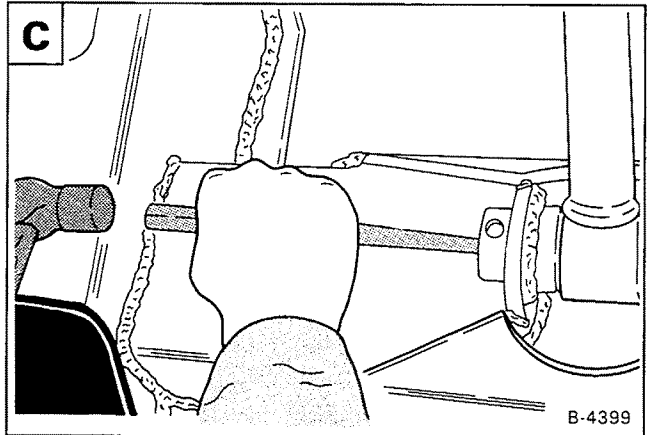


Remove the lock nut and bolt at the rod end of the tilt cylinder **B**.

Installation: Tighten the bolt and nut to 18-20 ft.-lbs. (24-27 Nm) torque.

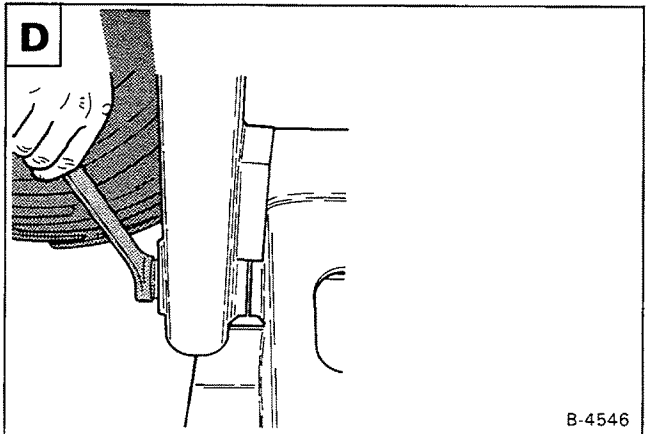


Remove the pivot pin at the rod end of the tilt cylinder **C**.



Loosen the bolt at the Bob-Tach pivot pin **D**. DO NOT remove the bolt.

Installation: Tighten the bolt at the pivot pin to 220-245 ft.-lbs. (298-332 Nm) torque.

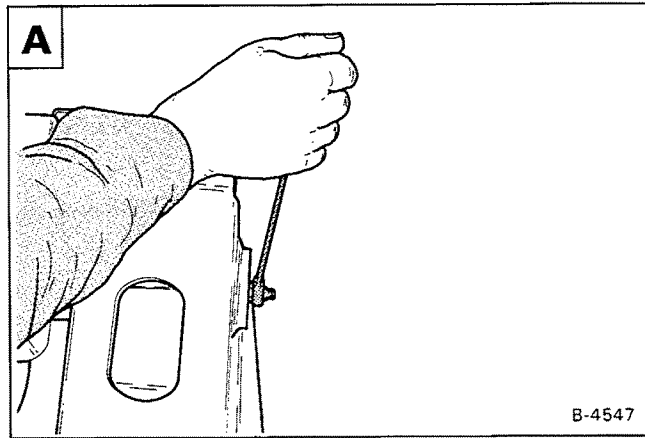


BOB-TACH (Cont'd)

Remove the grease fitting at the pivot pins **A**.

NOTE: The grease fitting at the pivot pin must be removed, because the grease can cause a lock and the pivot pin can not be removed from the Bob-Tach frame.

Put a rag over the grease fitting hole.



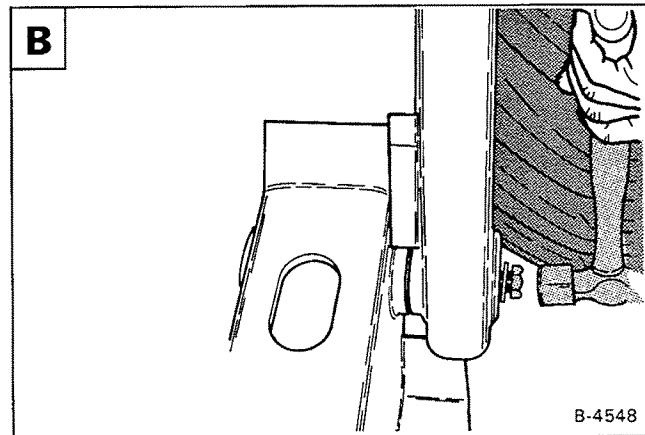
Hit the bolt to start the pivot pin into the Bob-Tach frame **B**.

Remove the bolt and use a punch to push the pivot pin into the Bob-Tach frame.

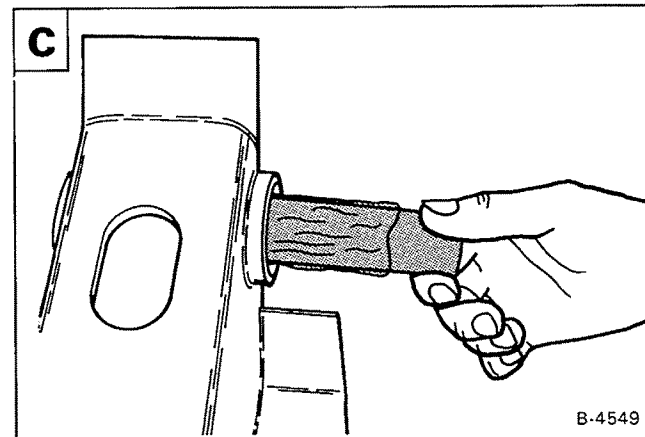
Repeat the above procedure for the other side.

Installation: Use a small diameter punch through the grease fitting hole to push the pivot pin into the lift arms.

Remove the Bob-Tach from the lift arms.



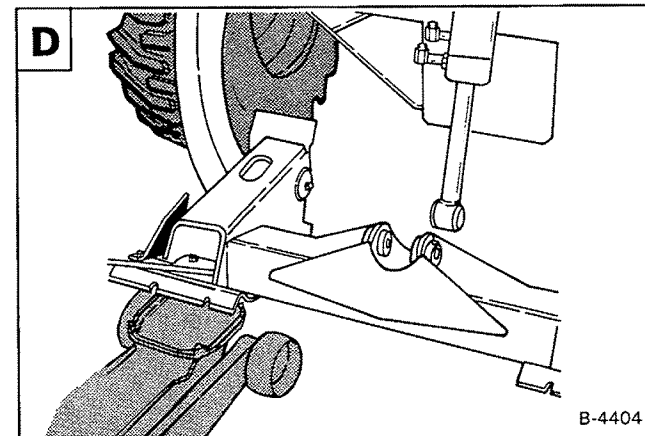
Remove the Bob-Tach pivot pins **C**.



Tilt Cylinder Rod End Seal

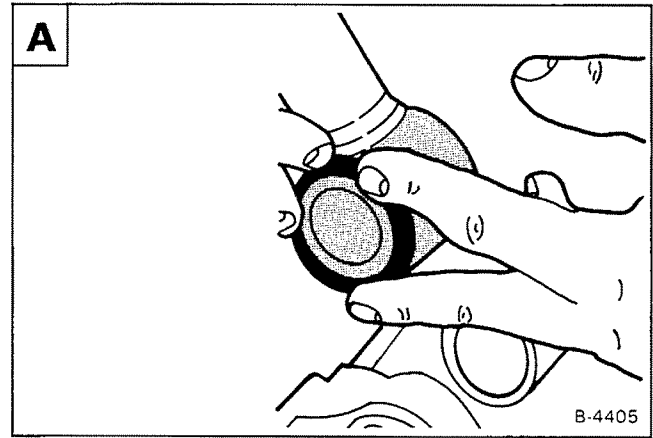
After the Bob-Tach is installed on the lift arms, use this procedure to install the rod end seals.

Lift the Bob-Tach with a floor jack **D**.



BOB-TACH (Cont'd)

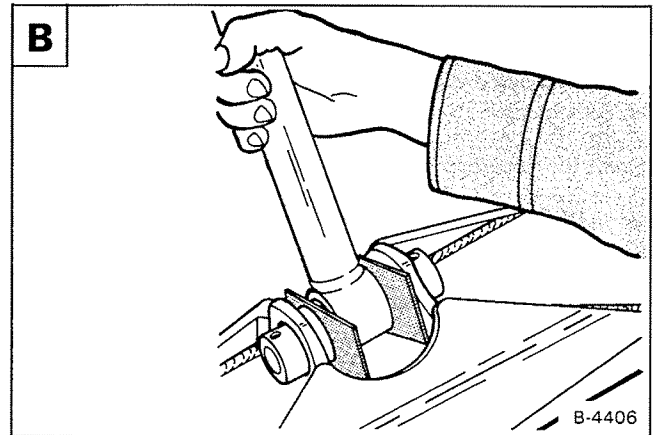
Install the new seals at the rod end **A**.



Put a piece of shim stock on each side of the seals **B**.

Lift the Bob-Tach with the floor jack and install the rod end into the Bob-Tach frame **B**.

Remove the shim stock and finish installing the Bob-Tach

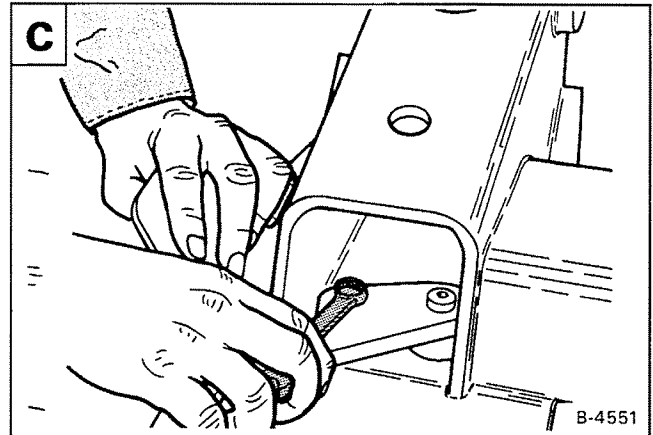


Disassembly and Assembly

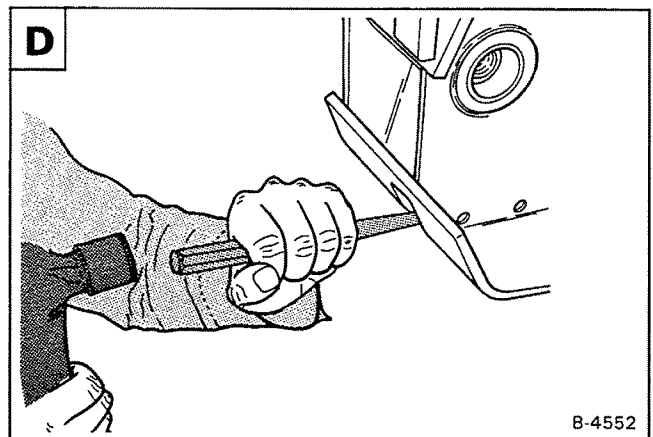
Put the Bob-Tach on a work bench.

Remove the bolt at the Bob-Tach lever **C**.

Installation: Tighten the bolt to 25-28 ft.-lbs. (34-38 Nm) torque.



Using a punch and hammer, remove the Bob-Tach wedge and spring assembly from the frame **D**.

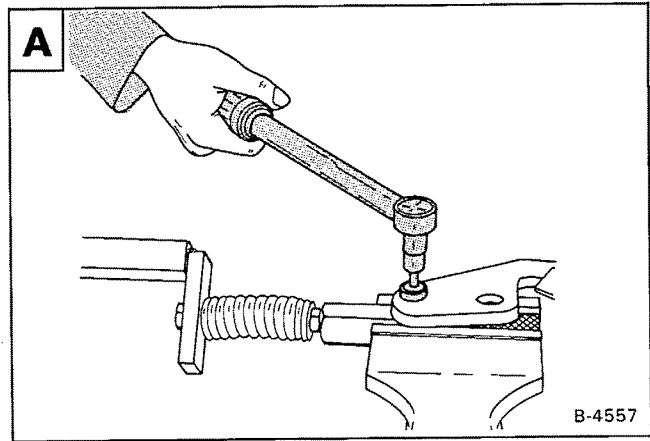


BOB-TACH (Cont'd)

Put the wedge and lever assembly in the vise.

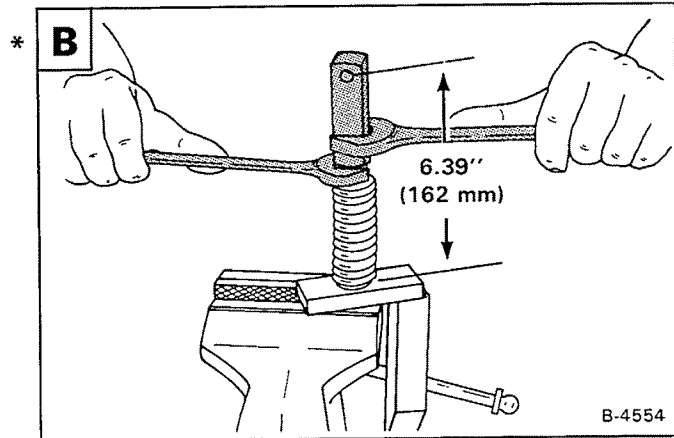
Remove the bolt at the lever **A**.

Assemble: Tighten the bolt to 25-28 ft.-lbs. (34-38 Nm) torque.

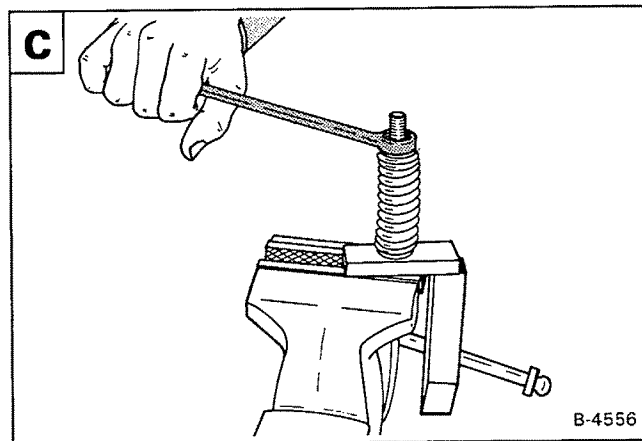


Remove the block from the wedge bolt **B**.

Assemble: Turn the block down until there is 6.39" (162 mm) from the center of the hole to the top of the wedge spring seat **B**.

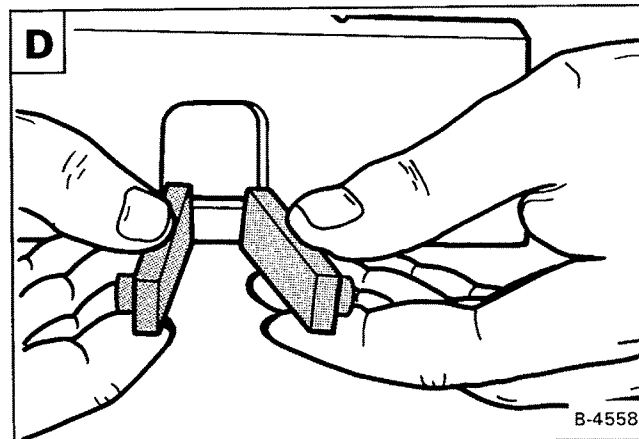


Remove the nut and the spring from the bolt **C**.



Remove the plastic guides from the Bob-Tach frame **D**.

Clean and inspect all the parts for wear and damage, replace the parts as needed.



FUEL TANK (S/N 19999 & Below)

Removal and Installation

Raise the operator cab (See Page 1–2 for the correct procedure).

Turn the fuel shut-off valve (Item 1) to the "OFF" position **A**.

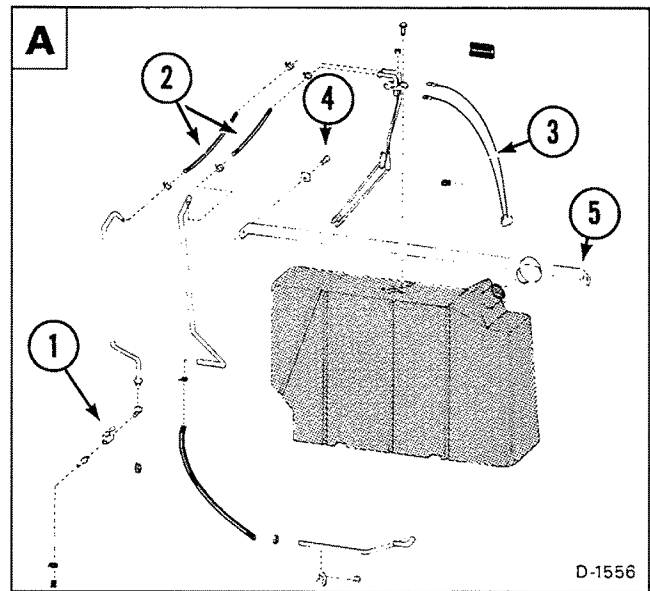
Use a transfer pump and remove all the fuel from the tank.

Disconnect the hoses (Item 2) from the fuel tank **A**.

Disconnect the wires from the sending unit (Item 3) **A**.

Remove the bolts (Item 4) at the holding strap (Item 5) **A**.

Remove the fuel tank from the loader.



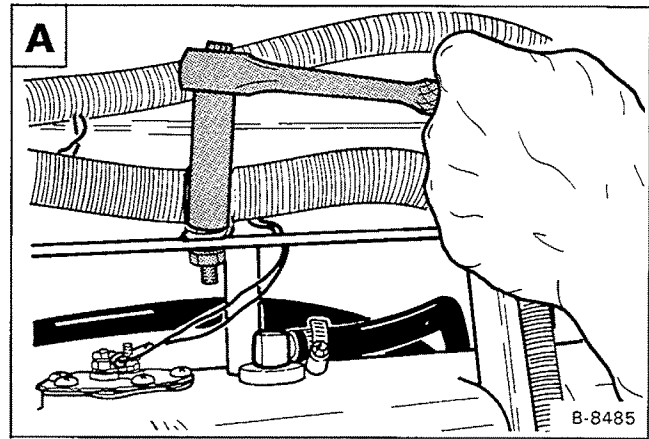
FUEL TANK (S/N 20001 & Above)

Removal and Installation

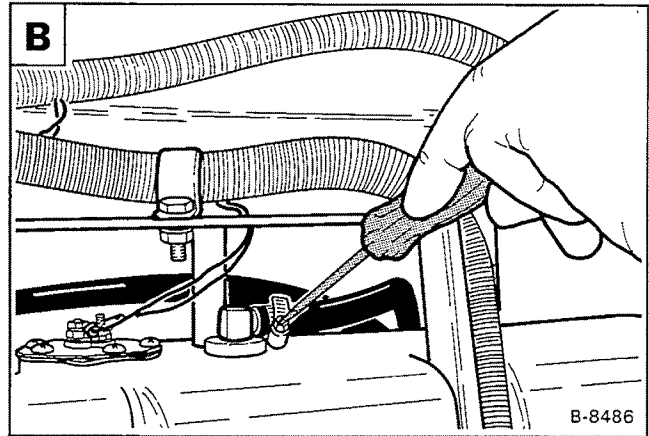
Raise the operator cab (See Page 1-7 for the correct procedure).

Use a transfer pump and remove the fuel from the fuel tank.

Remove the harness clamp at the top plate of the fuel tank **A**.

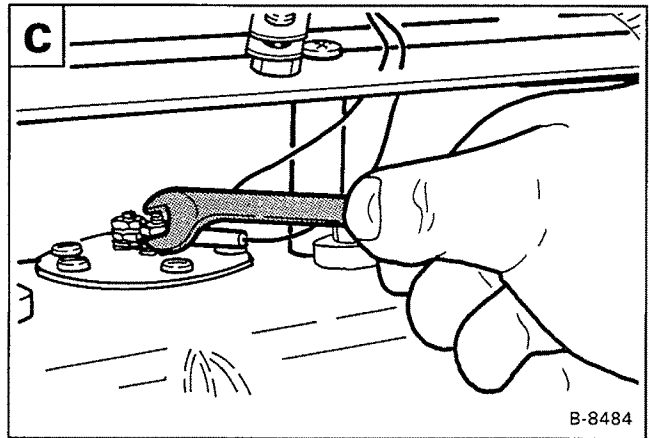


Disconnect the fuel return hose at the tank **B**.

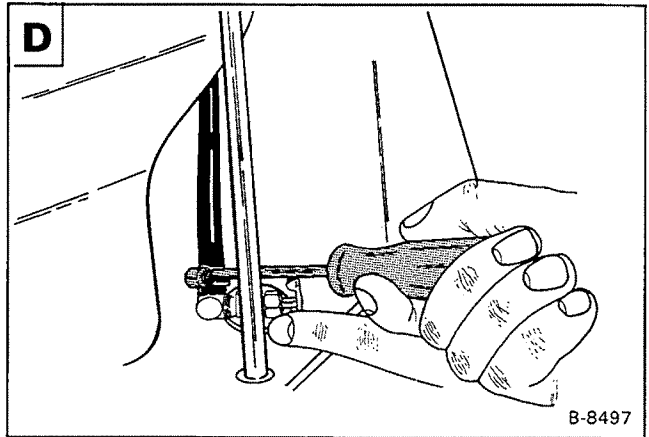


Disconnect the wires at the fuel sender **C**.

Turn the fuel shut-off valve to the "OFF" position.



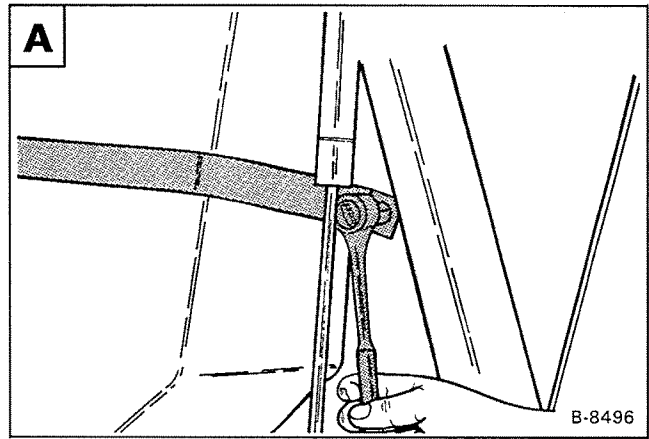
Disconnect the fuel hose at the shut-off valve **D**.



FUEL TANK (S/N 20001 & Above) (Cont'd)

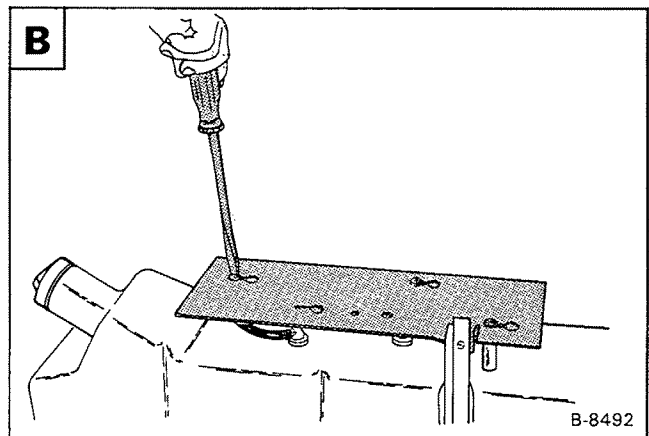
Remove the bolts from the holddown strap **A**.

Remove the fuel tank from the loader.

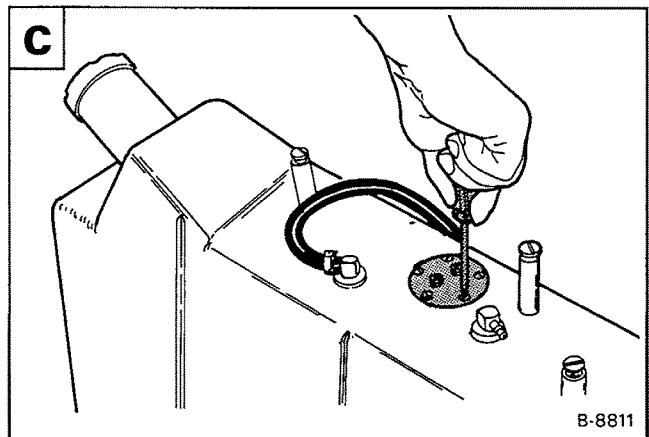


Fuel Tank Sender Switch

Remove the top plate from the fuel tank **B**.



Remove the screws from the sender switch **C**.



Remove the sender switch from the fuel tank **D**.

