

# MAIN FRAME

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**MAIN  
FRAME**

**TIGHTEN ALL HARDWARE PER SIZE TO GRADE 5 TORQUE (SEE STANDARD TORQUE SPECIFICATIONS FOR BOLTS, SECTION 9) UNLESS OTHERWISE SPECIFIED.**

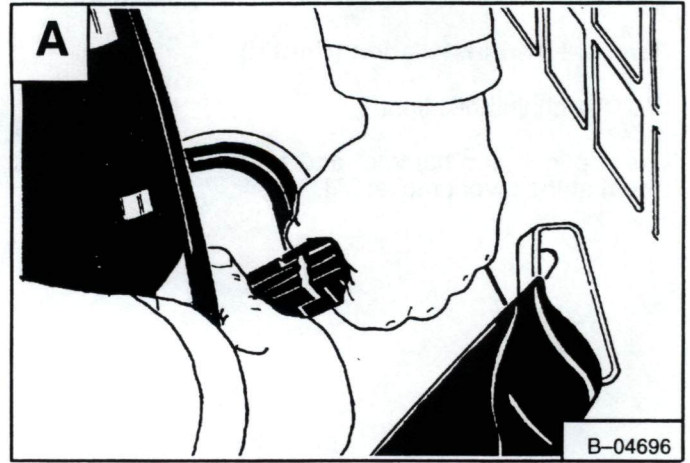


## OPERATOR CAB (S/N 19999 & Below)

### Removal And Installation

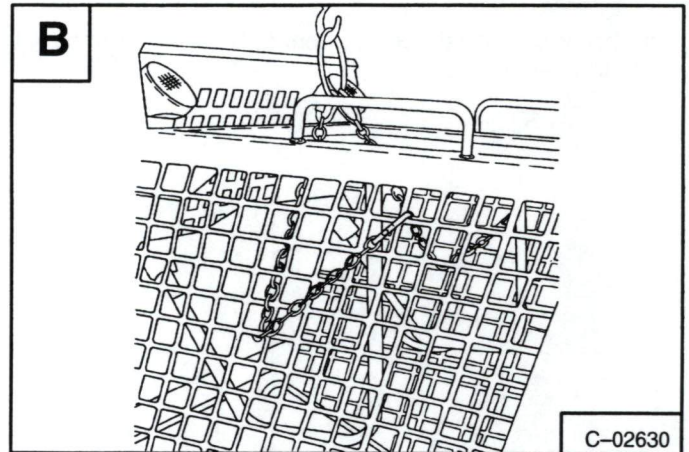
Lift and block the loader. (See *PREVENTIVE MAINTENANCE* Section 1 for the correct procedure.)

Disconnect the electrical harness [A].



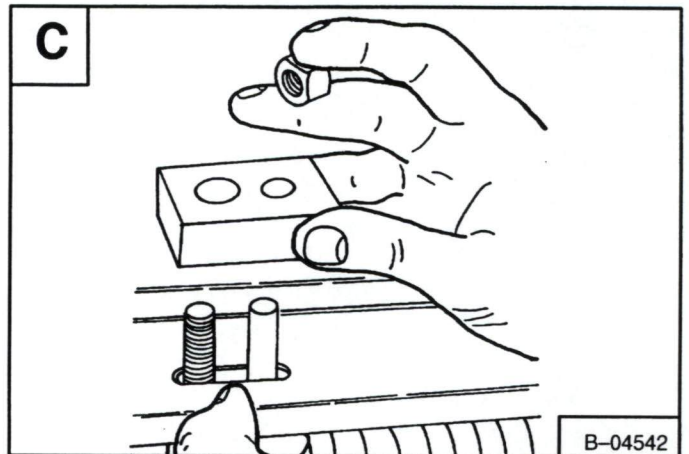
Raise the operator cab.

Fasten a chain and chain hoist to the operator cab [B].



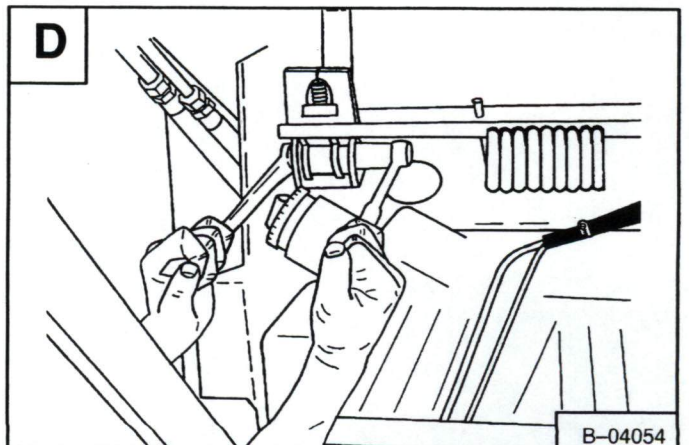
Remove the bolt and nut at the spring block. Remove the spring block (both sides) [C].

**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.

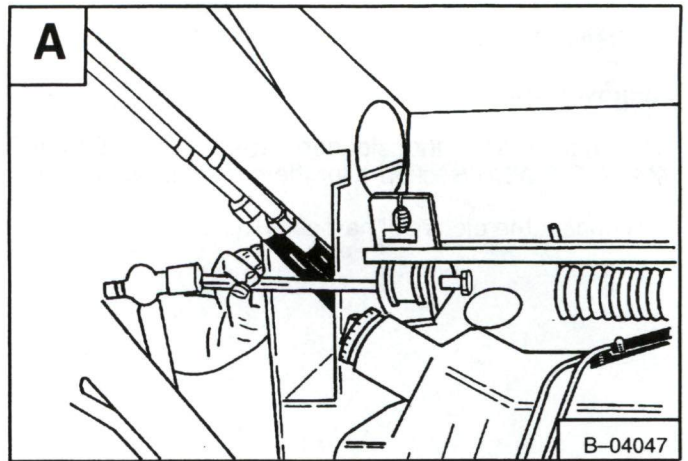


**OPERATOR CAB (S/N 19999 & Below) (Cont'd)**

**Removal And Installation (Cont'd)**

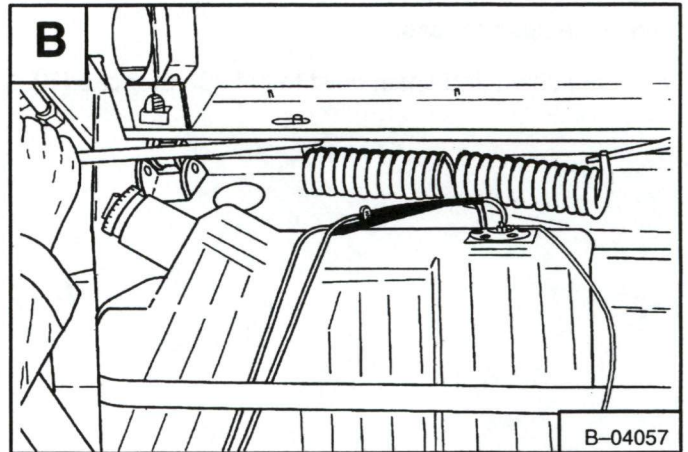
With the chain hoist tight.

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.

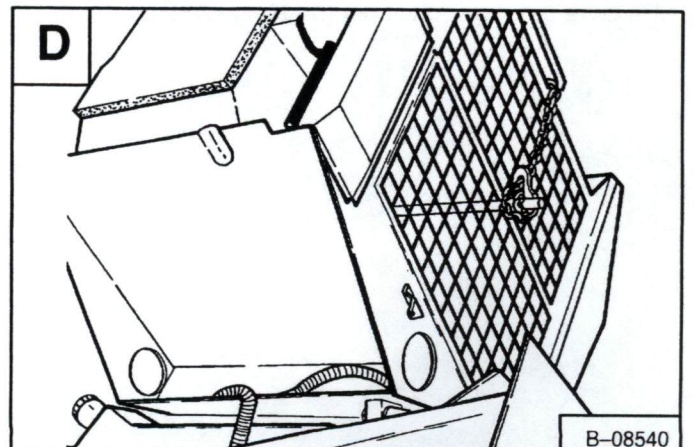
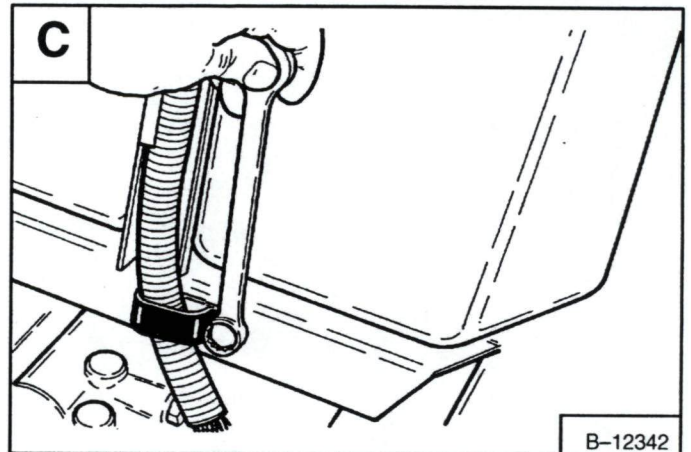
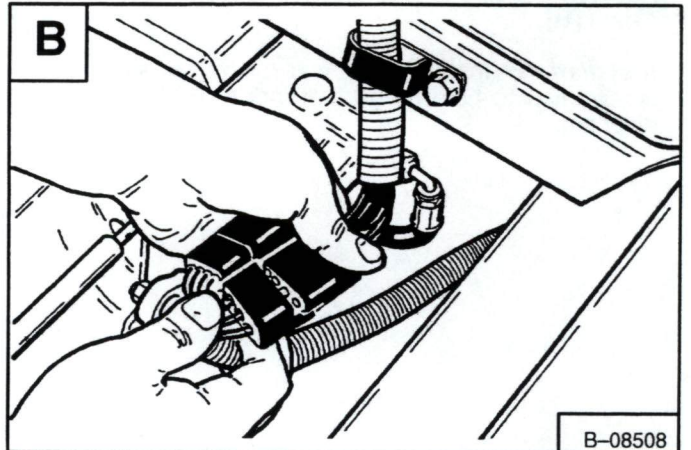
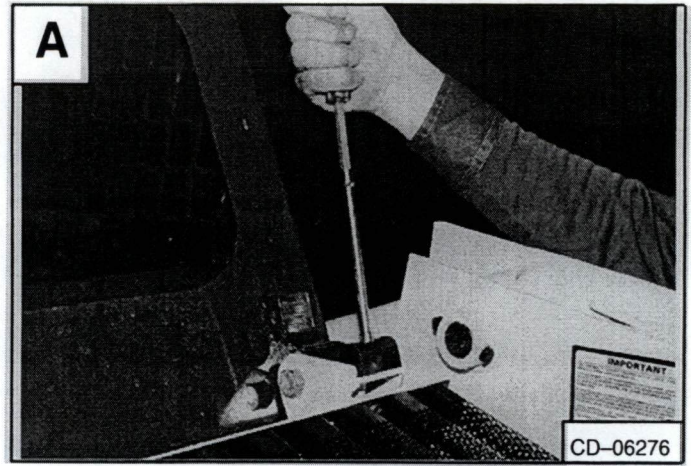
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Raise the operator cab. (See *PREVENTIVE MAINTENANCE* Section 1 for the correct procedure.)

Disconnect the electrical harness [B].

Remove the electrical harness clamp [C].

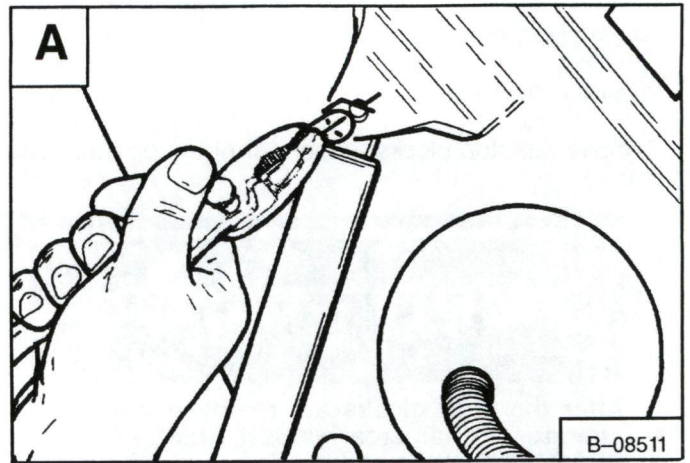
Install a bar through the operator cab balance point. Install a chain and chain hoist [D].



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

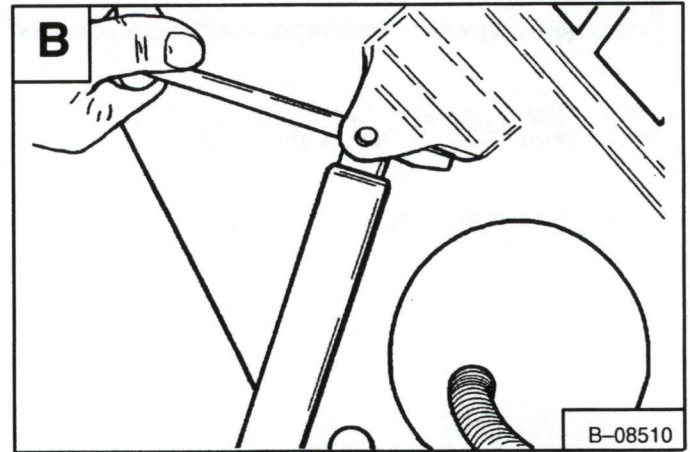
Removal And Installation (Cont'd)

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

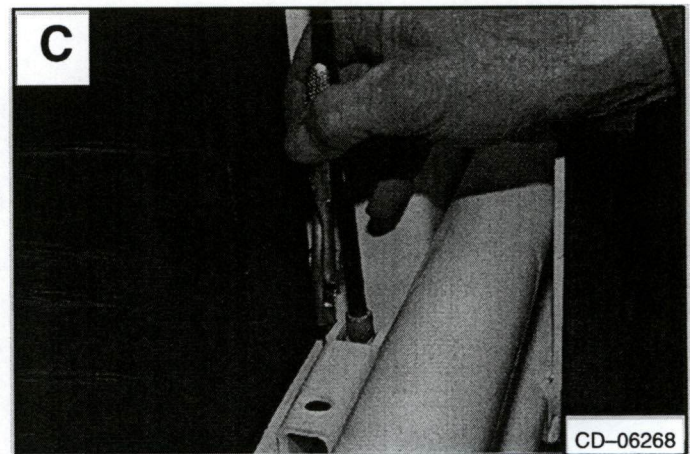


Remove the upper pivot pin for the gas cylinder (both sides) [B].

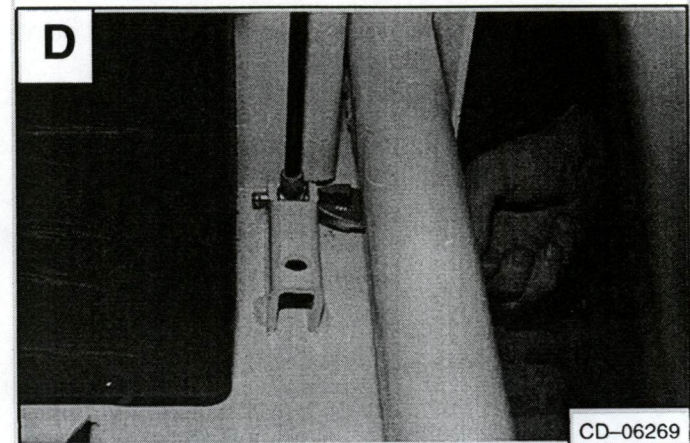
**Installation:** Install the lower pivot pin first, use a screwdriver to hold the gas cylinder and install the top pivot pin.



Remove the clip at the lower pivot pin [C].



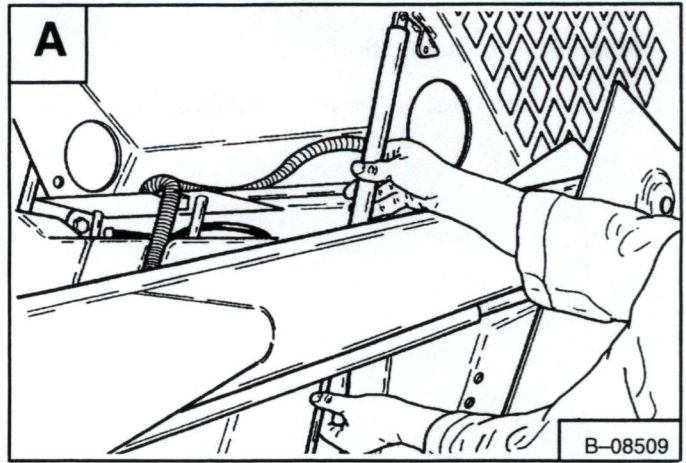
Remove the lower pivot pin (both sides) [D].



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

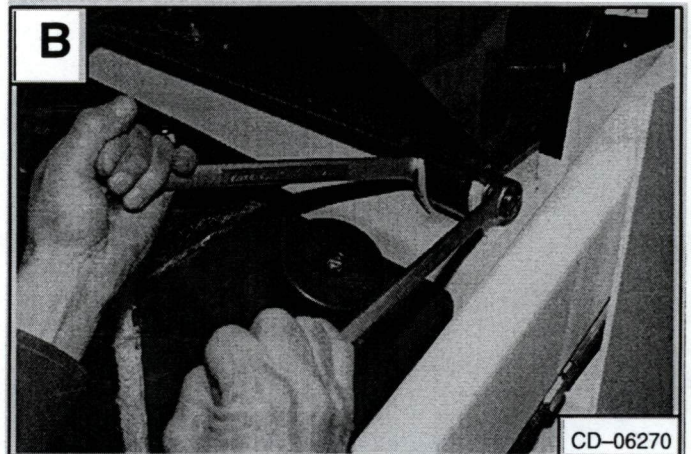
**Removal And Installation (Cont'd)**

Remove the gas cylinder (both sides) [A].



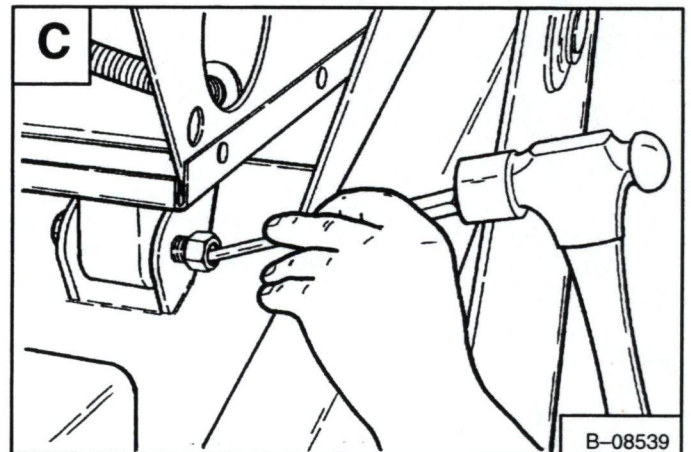
Remove the nuts from the pivot bolts [B].

**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].

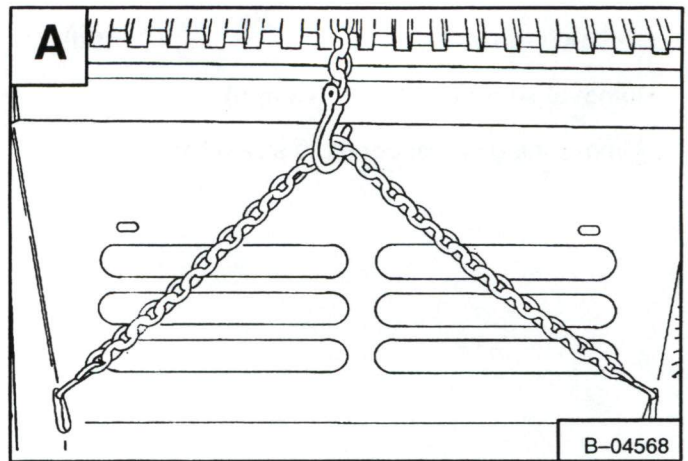
Lift the operator cab from the loader using the chain hoist.



## REAR DOOR

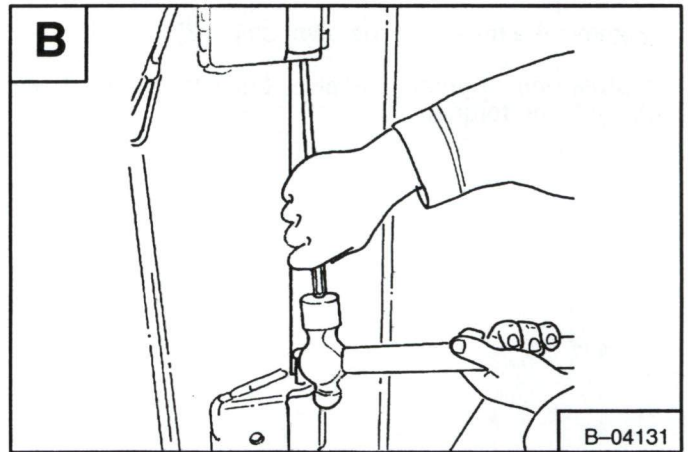
### Removal And Installation

Install a chain hoist on the rear door [A].



Use a punch and hammer, remove both hinge pins [B].

Lift the door from the loader frame.

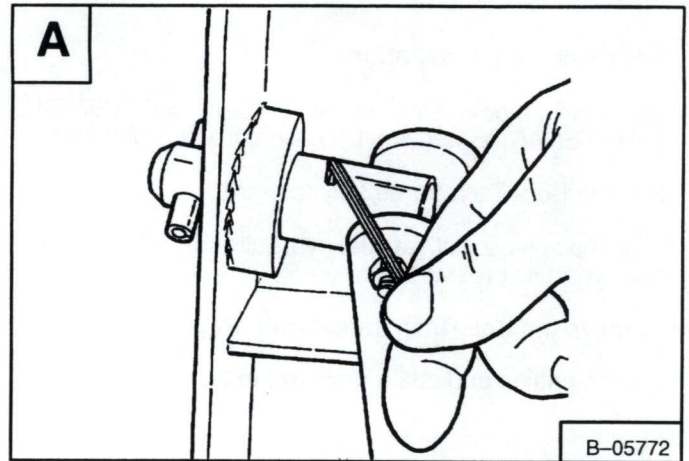




## REAR DOOR (Cont'd)

### Door Latch Adjustment

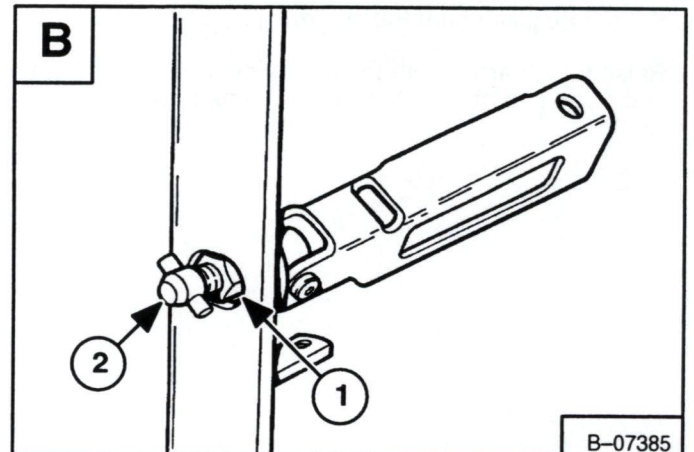
Loosen the set screw [A].



Loosen the nut (Item 1) [B].

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

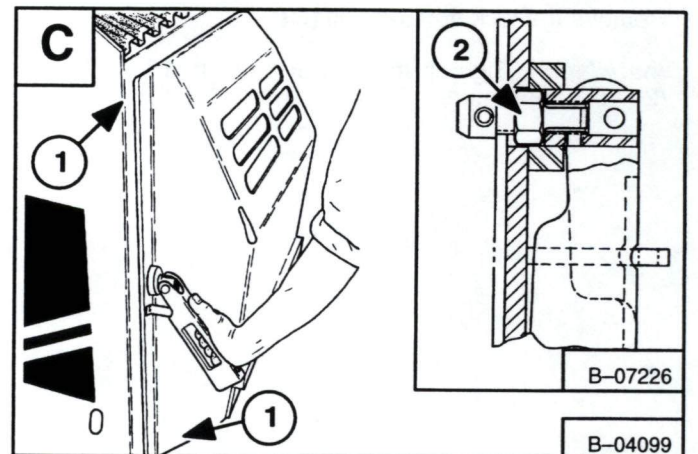
**NOTE:** It takes approximately 50 lbs. of force to push the lever down when the latch is adjusted correctly.



With the set screw up, the flanges at the bolt (Item 2) [C] must be to the sides 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) [B] to 65–70 ft.-lbs. (88–95 Nm) torque.



## LIFT ARMS

### Removal And Installation

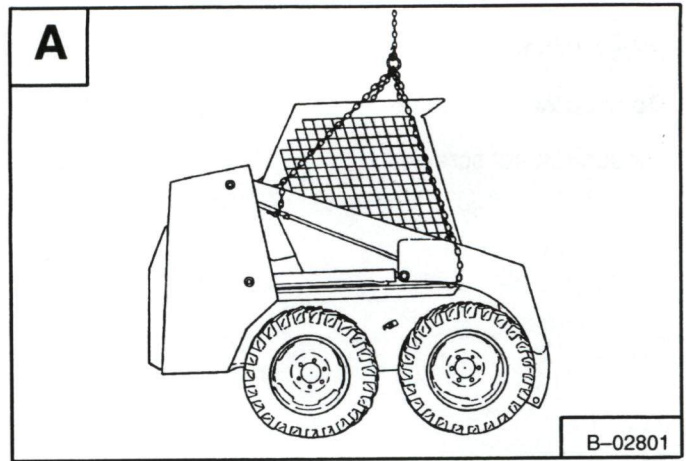
Lift and block the loader. (See *PREVENTIVE MAINTENANCE* Section 1 for the correct procedure.)

Roll the Bob-Tach frame fully forward.

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

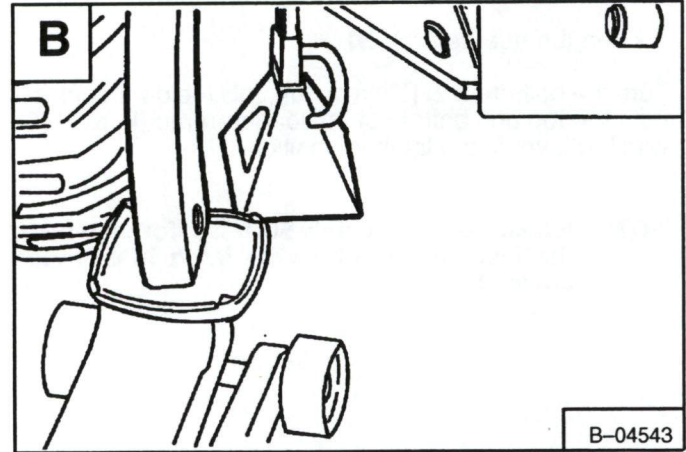
Remove the Bob-Tach frame. (See Page 5-11.)

Fasten chains and chain hoist to the lift arms [A].



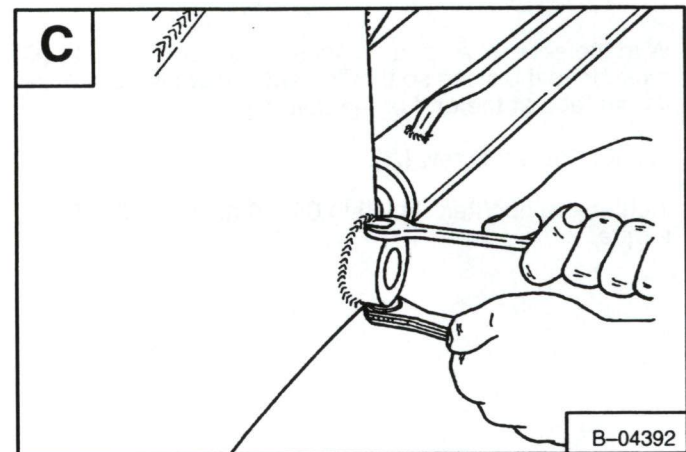
Put a floor jack under the lift arms [B].

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



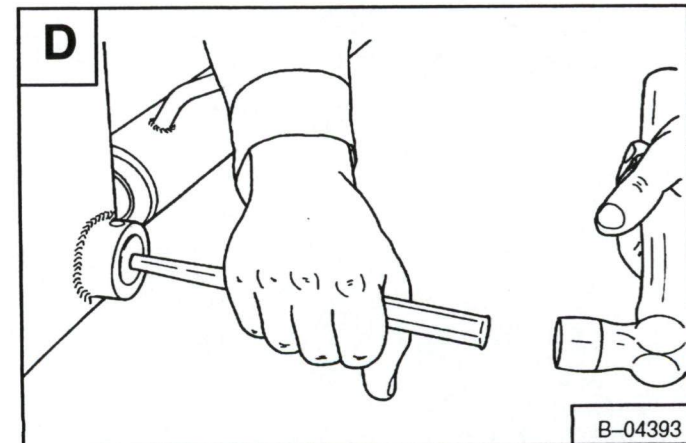
Remove the lock nut and bolt [C].

**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 cylinder (both sides) [D].

Lower the lift arms. Remove the floor jack.



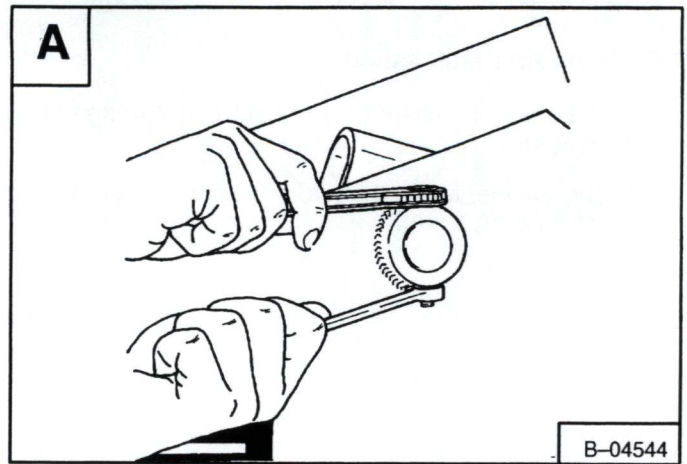
## LIFT ARMS (Cont'd)

### Removal And Installation (Cont'd)

Remove the lock nut and bolt [A].

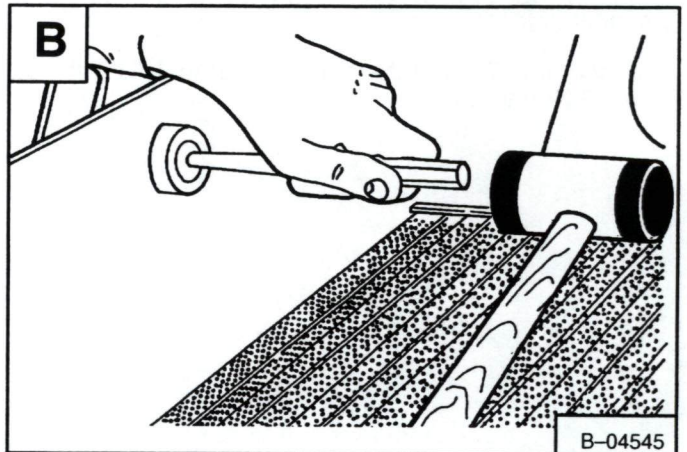
**Installation:** Tighten the bolt and nut to 18–20 ft.-lbs. (24–27 Nm) torque.

Tighten the chain hoist.



Use a punch and soft hammer, remove the pivot pin at the lift arm (both sides) [B]

Raise the lift arms with the chain hoist and remove them from the loader frame.



## BOB-TACH

### Removal And Installation

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

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

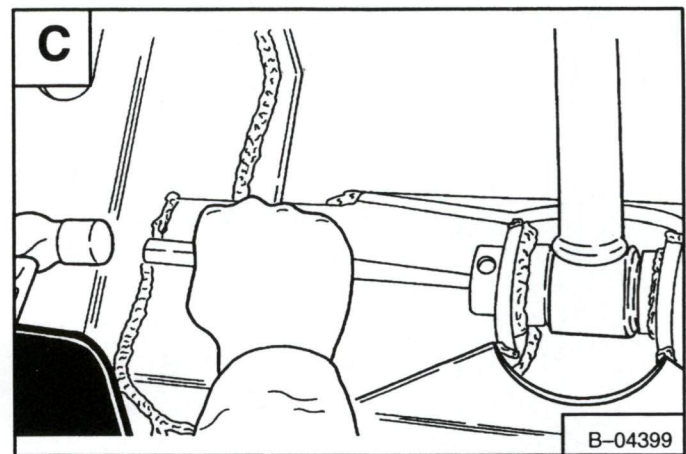
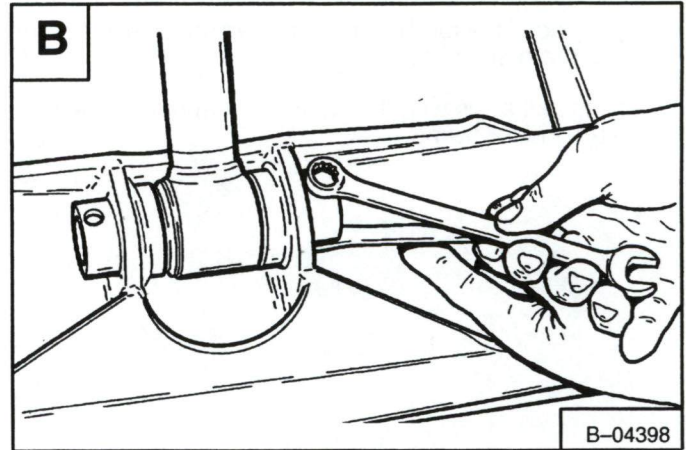
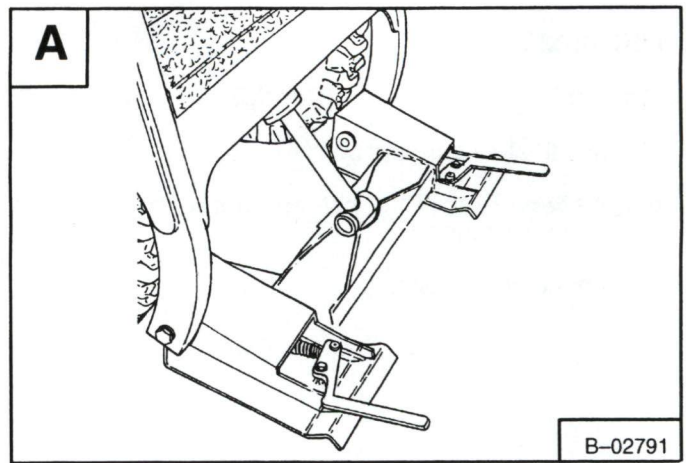
Remove the lock nut and bolt at the rod end of the tilt cylinder [B].

**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 125–140 ft.-lbs. (1701–190 Nm) torque.



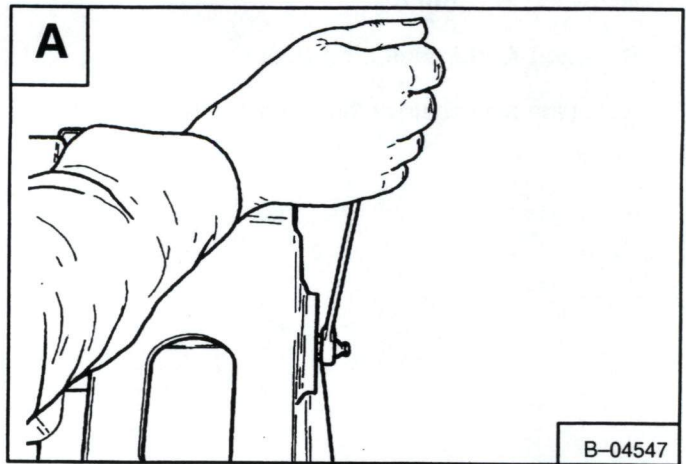
## BOB-TACH (Cont'd)

### Removal And Installation (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 cannot be removed from the Bob-Tach frame.

Put a rag over the grease fitting hole.



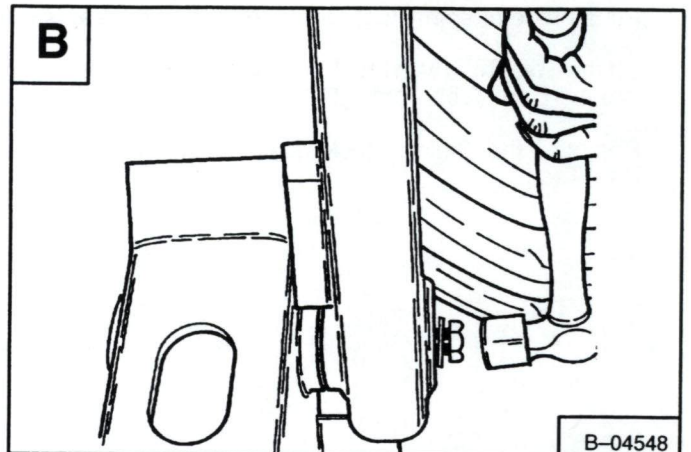
Hit the bolt to start the pivot pin into the Bob-Tach frame [B].

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

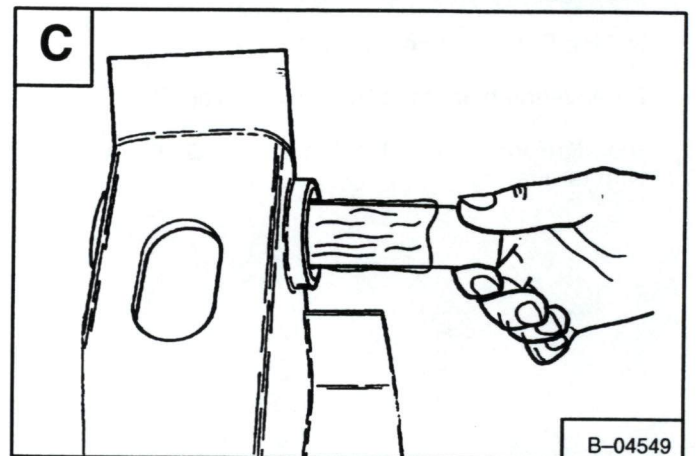
Repeat the above procedure for the other side.

**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.



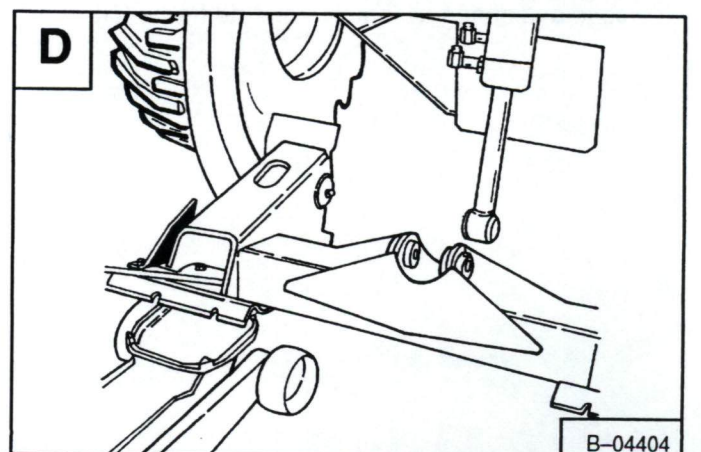
Remove the Bob-Tach pivot pins [C].



### Tilt Cylinder Rod End Seal

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

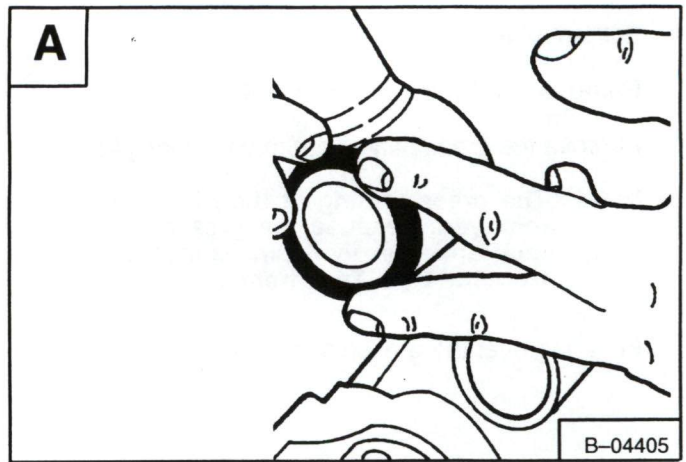
Lift the Bob-Tach with a floor jack [D].



## BOB-TACH (Cont'd)

### Removal And Installation (Cont'd)

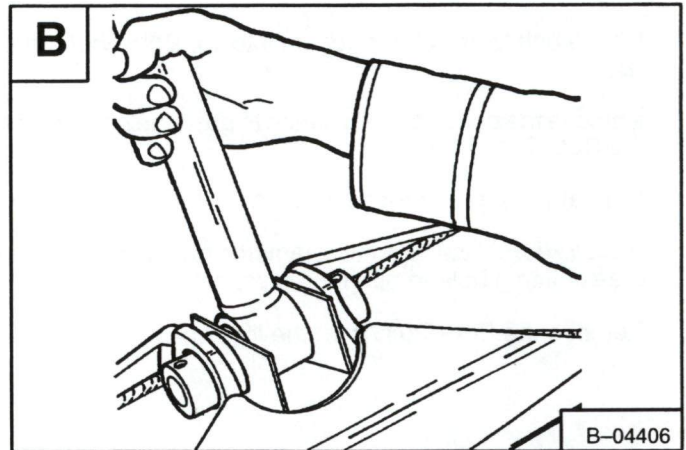
Install the new seals at the rod end [A].



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.

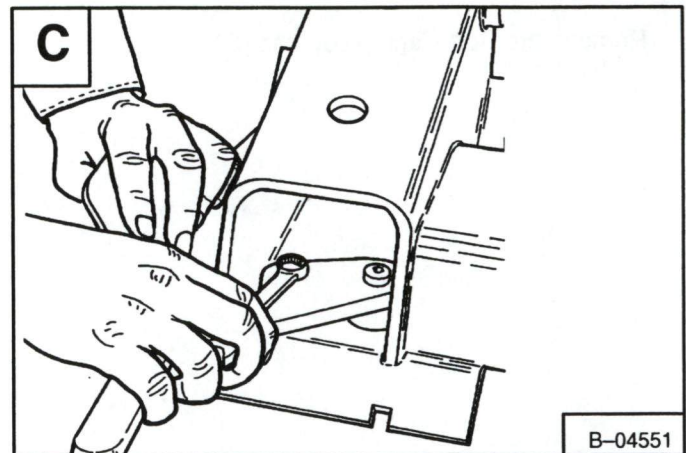


### Disassembly And Assembly

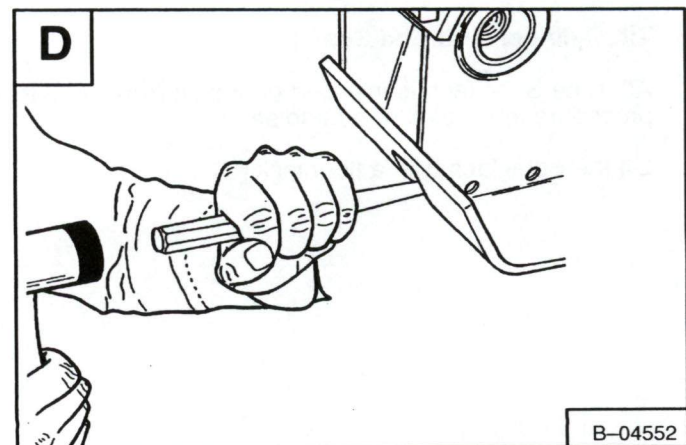
Put the Bob-Tach on a work bench.

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].



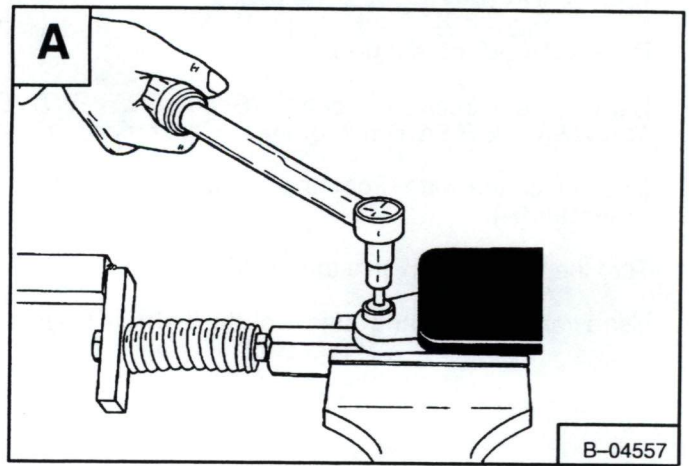
## BOB-TACH (Cont'd)

### Disassembly And Assembly (Cont'd)

Put the wedge and lever assembly in the vise.

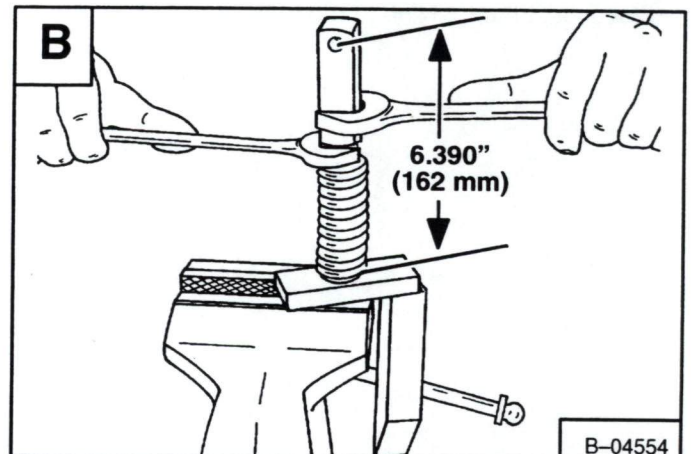
Remove the bolt at the lever [A].

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

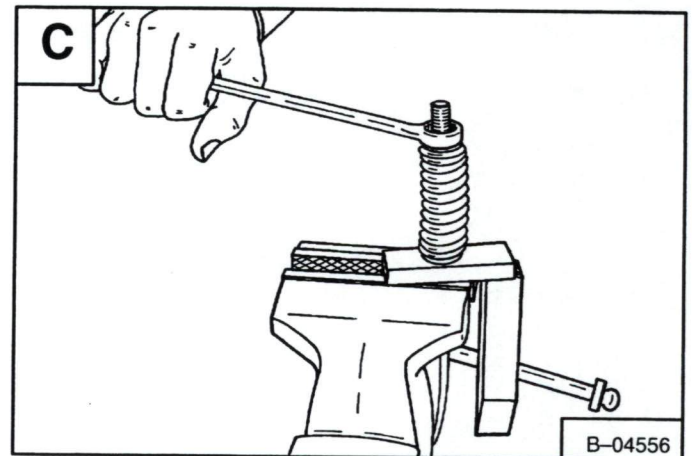


Remove the block from the wedge bolt [B].

**Assemble:** Turn the block down until there is 6.390" (162 mm) from the center of the hole to the top of the wedge spring seat [B].

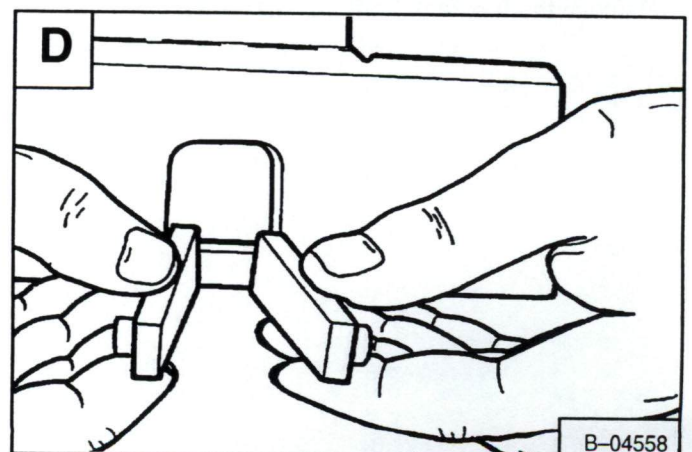


Remove the nut and the spring from the bolt [C].



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)

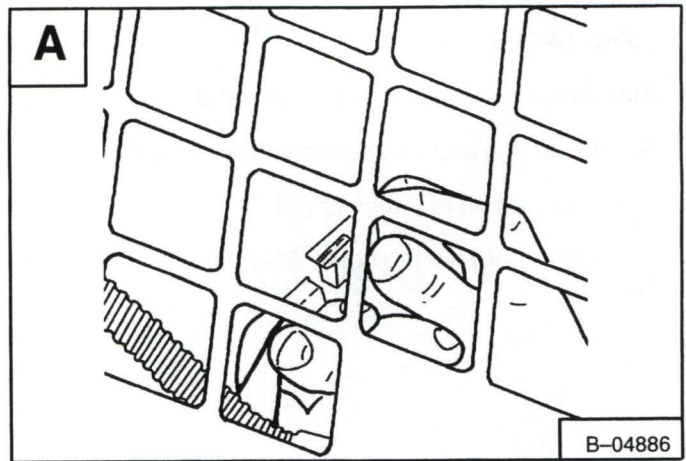
### Removal And Installation

Raise the operator cab. (See *PREVENTIVE MAINTENANCE* Section 1 for the correct procedure.)

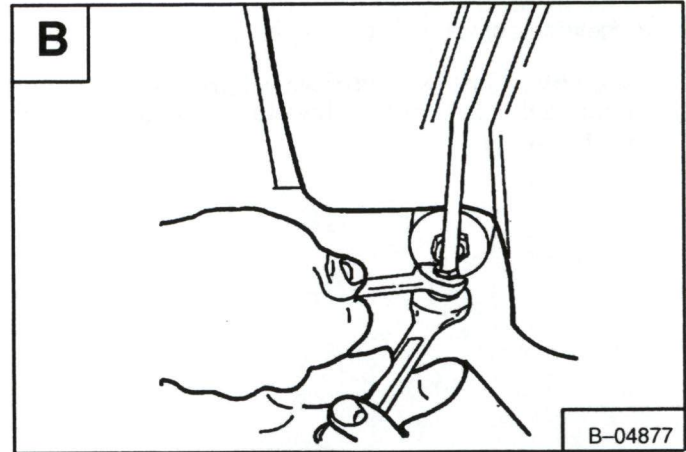
Disconnect the wire from the operator cab harness connector [A].

Turn the fuel shutoff valve to the OFF position.

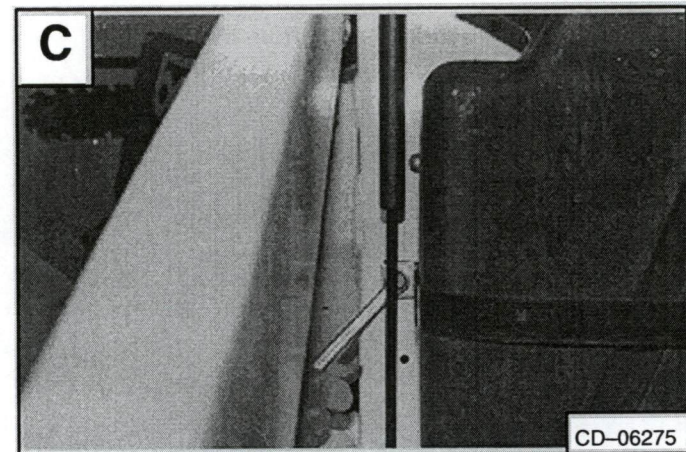
Use a transfer pump and remove all the fuel from the tank.



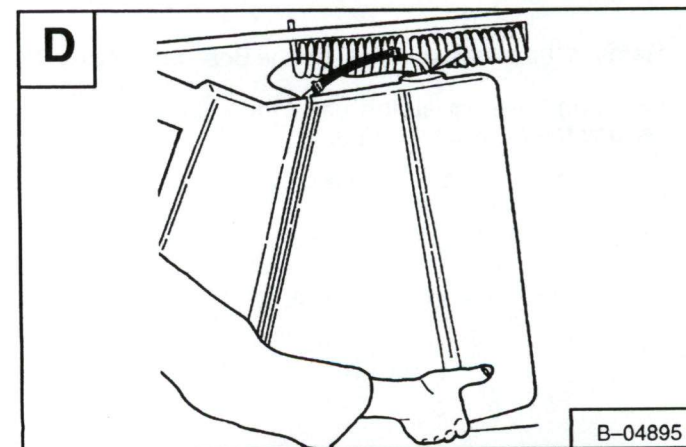
Disconnect the fuel line at the fuel filter [B].



Remove the nut holding the strap [C].



Remove the fuel tank from the loader [D].





## FUEL TANK (S/N 20001 & Above)

### Removal And Installation

Raise the operator cab. (See *PREVENTIVE MAINTENANCE* Section 1 for the correct procedure.)

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

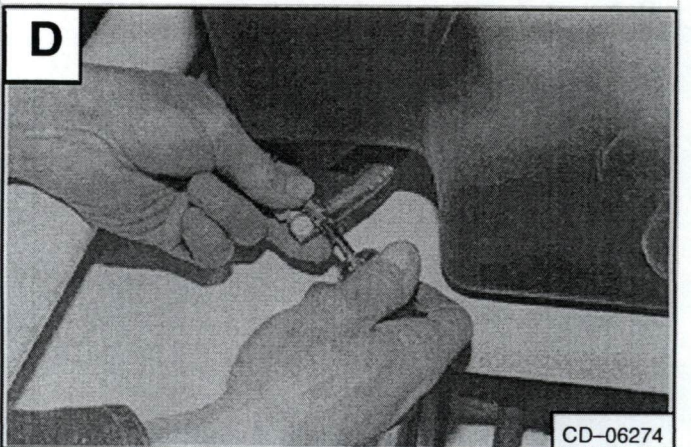
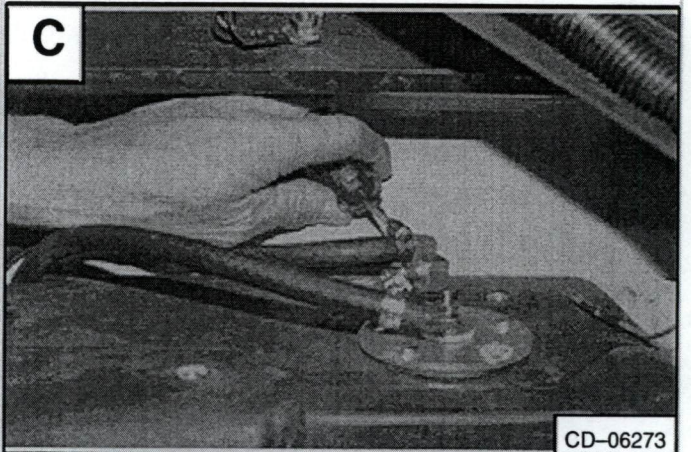
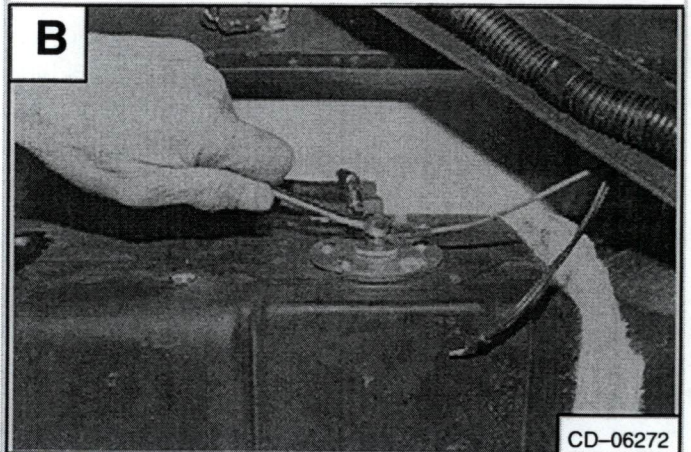
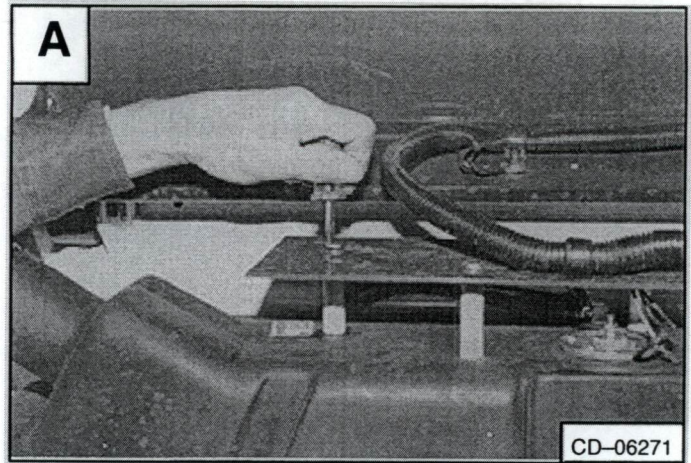
Remove the harness plate screws at the top of the fuel tank [A].

Move the harness plate over and above the hydraulic reservoir.

Disconnect the wires at the fuel sender [B].

Remove the fuel hoses from the tank fittings [C].

Remove the fuel hoses at the shutoff valve [D].

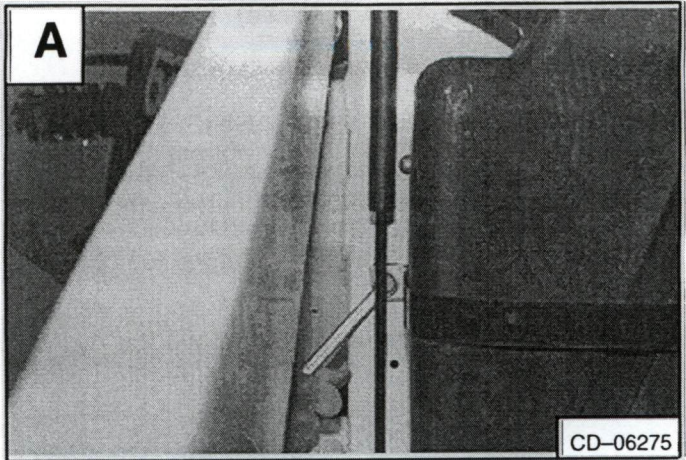


**FUEL TANK (S/N 20001 & Above) (Cont'd)**

**Removal And Installation (Cont'd)**

Remove the fuel tank holding strap bolt [A].

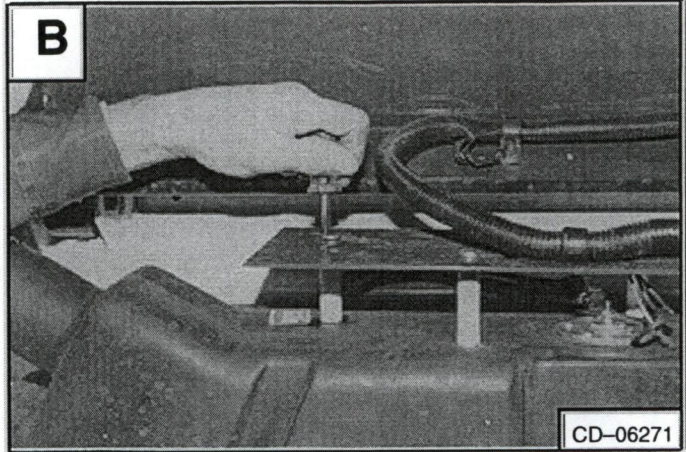
Remove the fuel tank from the loader.



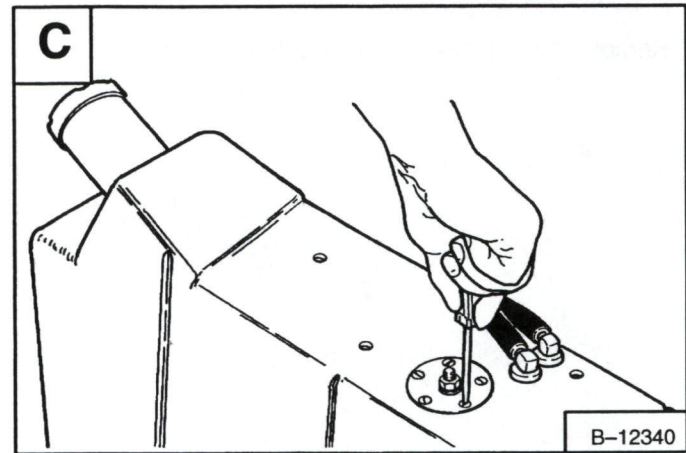
**Fuel Tank Sender Switch**

Remove the harness plate from the top of the fuel tank [B].

Remove the wires from the sender.



Remove the screws from the sender [C].



Remove the sender switch from the fuel tank [D].

