

OPERATOR CAB (Cont'd)

Lowering the Operator Cab

Move the locking mechanism by pushing the lever inward from the locked position [A] and turning the lever until it stays in the unlocked position [B].

REMOVE YOUR HAND BEFORE LOWERING THE OPERATOR CAB



WARNING

Never work on a machine with the lift arms up unless the lift arms are secured by a lift arm support device. Failure to use an approved lift arm support device can allow the lift arms or attachment to fall and cause injury or death.

W-2059-0991

With gas cylinder: Stand on the ground and pull down on the operator cab.

Without gas cylinder: Two persons are needed to lower the operator cab (one on each side). Slowly lower the cab by holding the bottom of the cab and the grab handles.

Avoid slippery surfaces when lowering the cab.

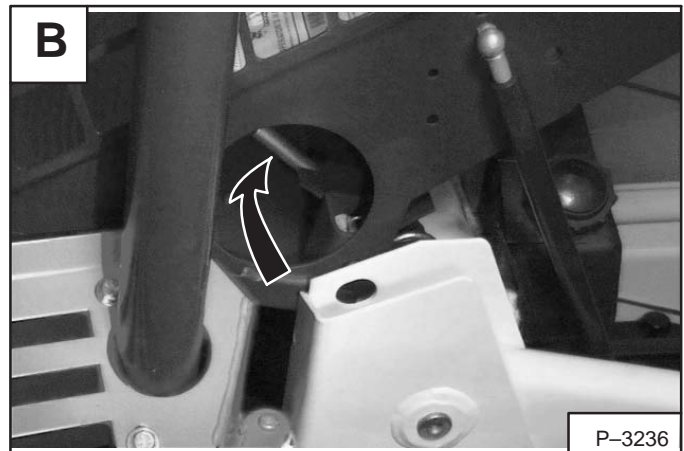
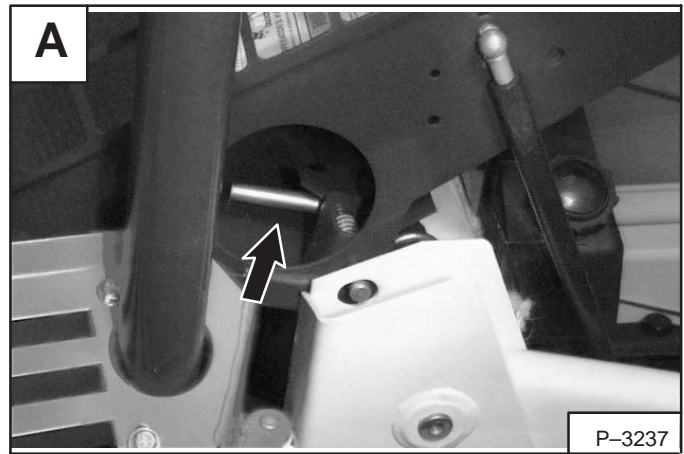
NOTE: Guide the operator cab over the fastening bolts to prevent thread damage.

Install the two fasteners (including the washers or plates) and tighten the nuts.

Connect the wiring harness behind the seat [C].

Remove the lift arm support device if it was installed.

Remove the jackstands from under the loader frame.

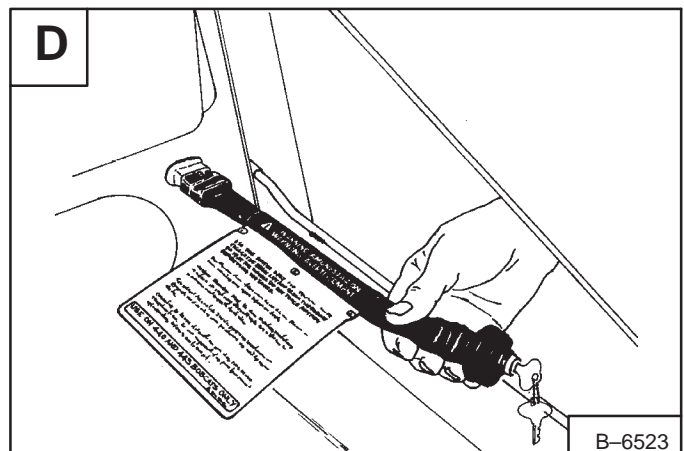


Jumper Start Switch

The tool listed will be needed to do the following procedure:

MEL1128B – Jumper Start Switch

The short wire harness assembly is required when the operator cab is in the raised position for service and the serviceman needs to start the engine. The wire harness connectors separate when the operator cab is tilted back. Install the short wire harness into the engine wire harness of the loader [D]. This jumper start switch is required when the serviceman is adjusting the steering linkage, checking the charge pressure and making hydraulic pump tests.



OPERATOR CAB (Cont'd)

Removing the Operator Cab

Stop the engine.

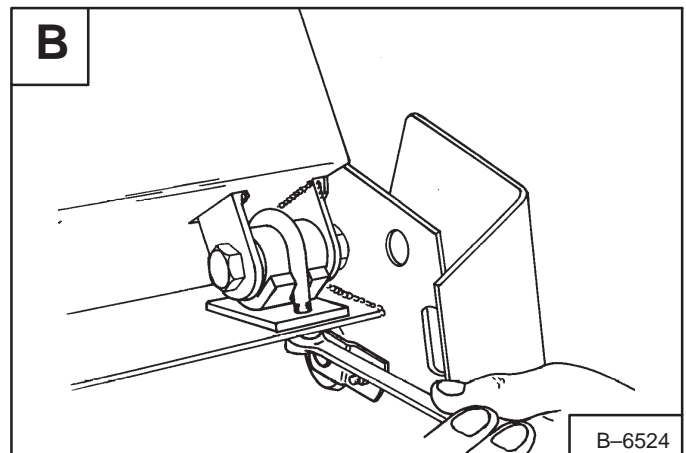
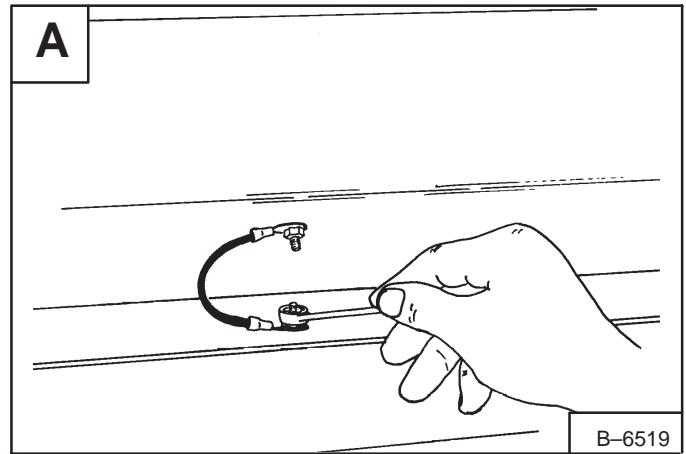
Remove the retainer pins at the front corners of the operator cab.

Remove the retainer plates at the front corners of the operator cab.

Disconnect the wire harness behind the seat.

Remove the ground wire at the rear of the operator cab **[A]**.

Remove the operator cab u-bolts **[B]**.



Install a chain hoist and remove the operator cab from the loader **[C]**.

Installing the Operator Cab

Raise the operator cab with a chain hoist, over the loader.

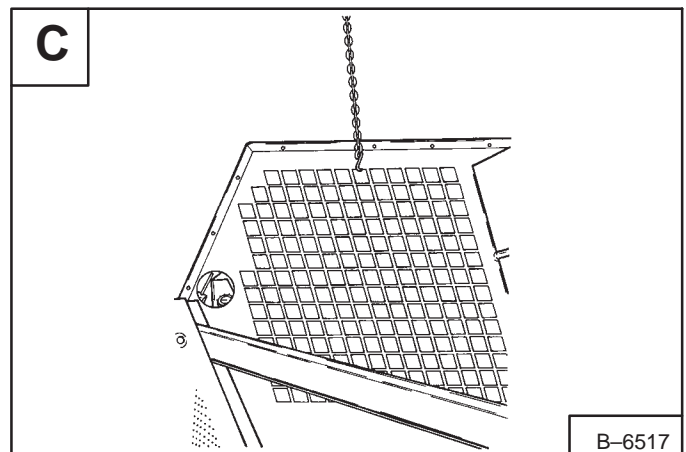
Lower the chain hoist until the pivot bushings are over the u-bolt mounting holes.

Install the u-bolts and tighten **[B]**.

Connect the ground wire **[A]**.

Install the retainer plates and retainer pins at the front corners of the operator cab.

Connect the wire harness behind the seat.



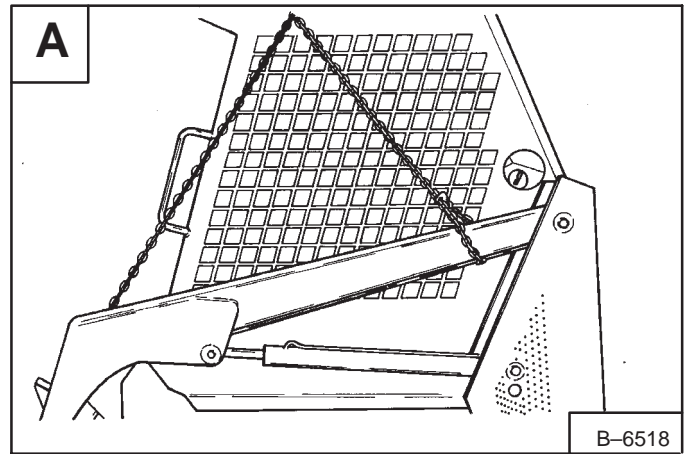
LIFT ARMS

Removing the Lift Arms

Stop the engine, activate the hydraulic controls to release all the hydraulic pressure.

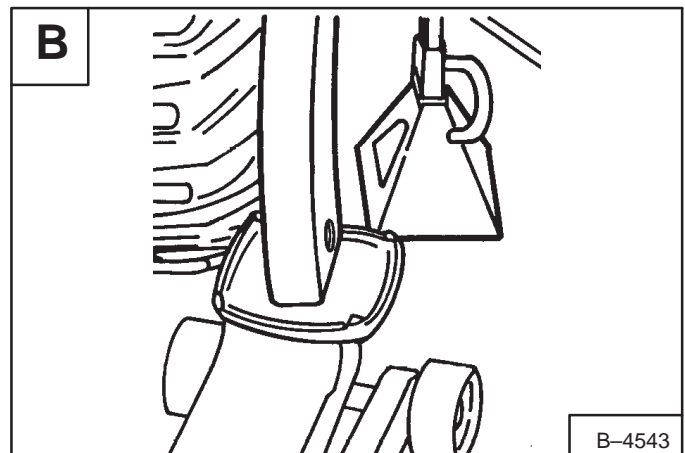
Remove the Bob-Tach from the lift arms. (See Page 5–8.)

Fasten a chain hoist to the lift arms **[A]**.

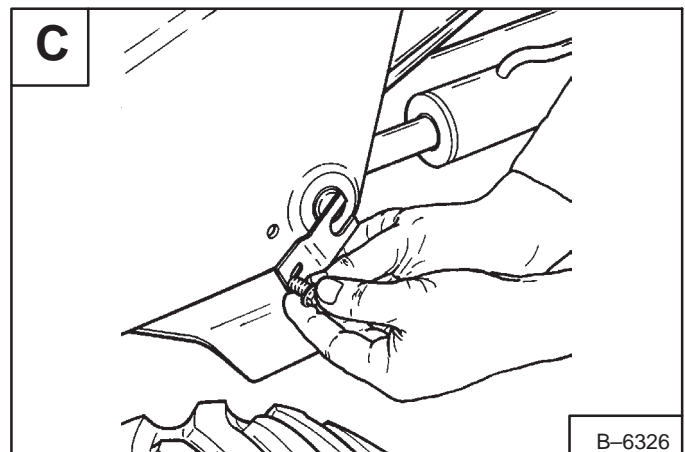


Put a floor jack under the lift arms **[B]**.

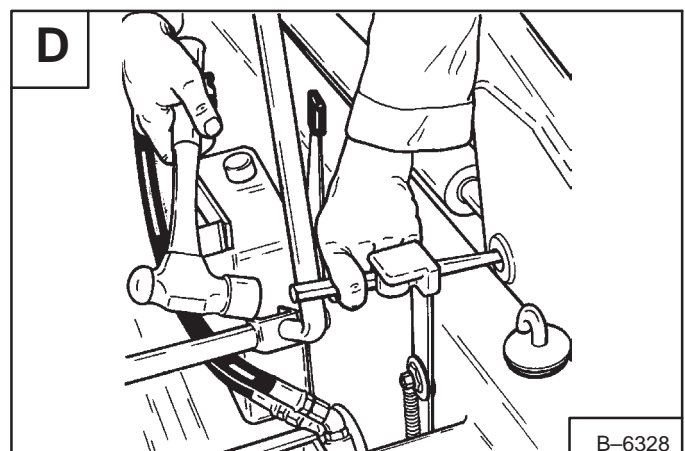
Raise the lift arms, with the floor jack, until the pivot pins in the rod end of the lift cylinder can be removed.



Remove the bolt and retainer plate at the rod end of the lift cylinder **[C]**.



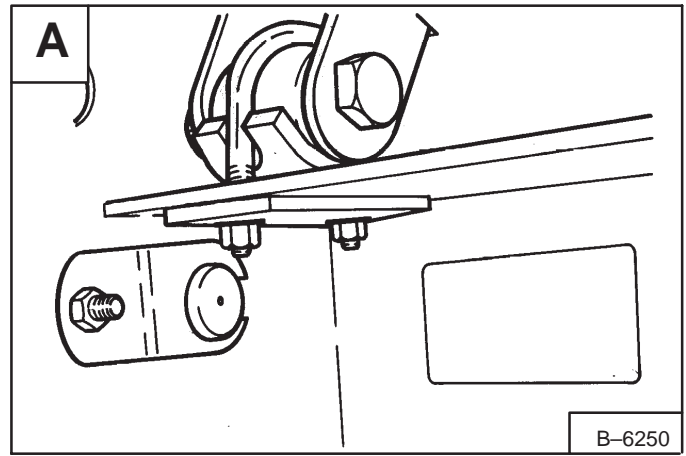
Use a punch and hammer and remove the rod end pin **[D]**.



LIFT ARMS (Cont'd)

Removing the Lift Arms (Cont'd)

Remove the bolt and retainer plate (in the engine area) for the lift arm pivot pins (both sides) [A].



Use a slide hammer, remove the pivot pins [B].

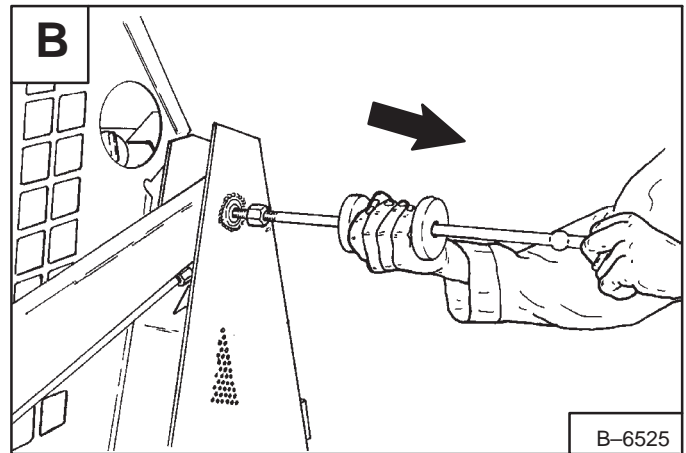
Lift the lift arms a small amount with the chain hoist.

Disconnect the auxiliary hoses from the tubelines if the loader is so equipped.

Raise the lift arms with the chain hoist. Remove the lift arms from the loader.

Installing the Lift Arms

With a chain hoist, position the lift arms on the loader and align the pivot pin holes in the lift arms and the main frame.



NOTE: Connect the auxiliary hoses to the tubelines if the loader is so equipped.

Install the pivot pins in the main frame and the lift arms.

Install the retainer plates and bolts at the pivot pins (both sides) [A]. Tighten the bolts to 18–20 ft.-lbs. (24–27 Nm) torque.

Remove the chain hoist and chains from the lift arms.

Install the pivot pin in the lift cylinder.

Install the retainer plate and bolt at the pivot pins (both sides). Tighten the bolts to 18–20 ft.-lbs. (24–27 Nm) torque.

Install the Bob-Tach on the lift arms. (See Page 5–12.)

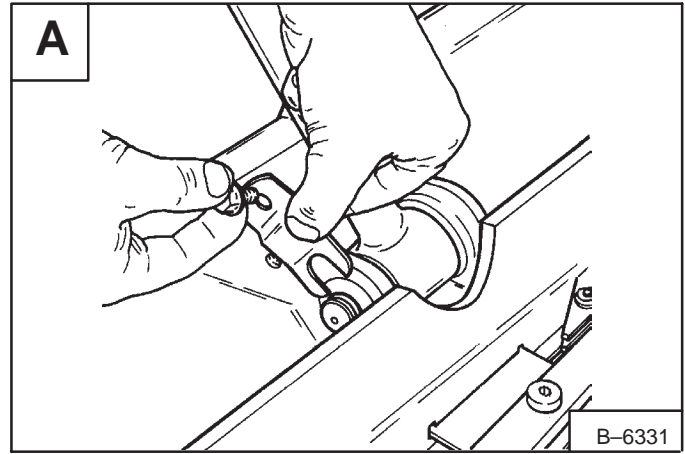
BOB-TACH

Removing the Bob-Tach

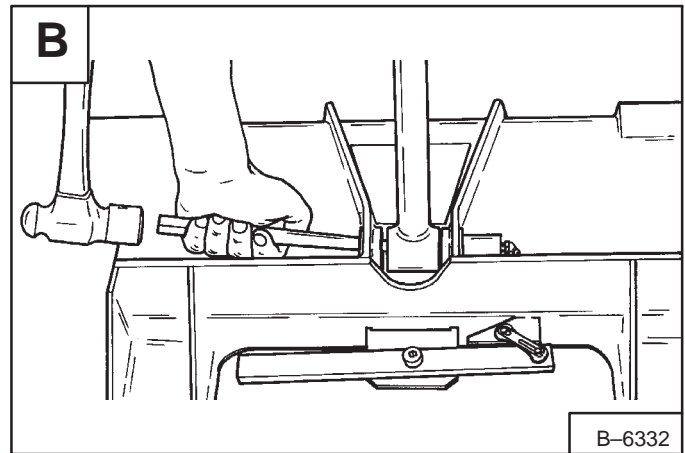
Start the engine. Tilt the Bob-Tach forward until the front edge of the Bob-Tach is on the floor.

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

Remove the retainer plate and bolt at the rod end of the tilt cylinder **[A]**.



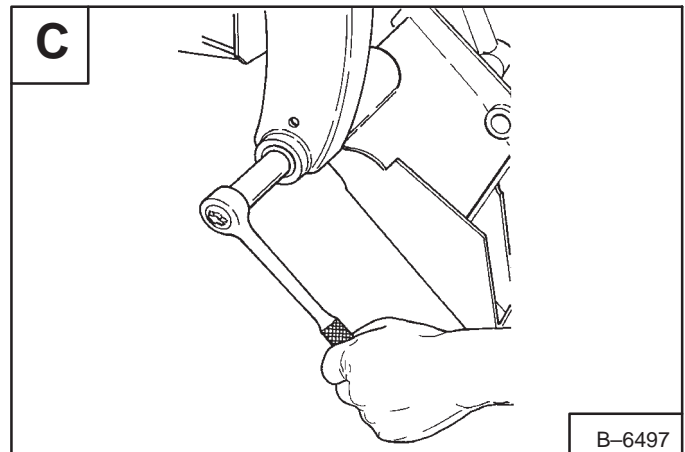
Remove the pivot pin from the tilt cylinder rod end **[B]**.



Loosen the bolt 1-1 1/2 turns (do not remove) at the Bob-Tach pivot pins (both sides). **[C]**.

Remove the grease fitting from the pivot pin.

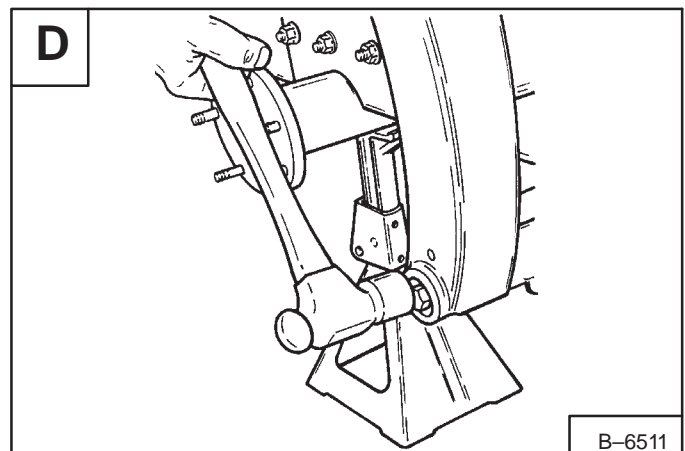
NOTE: The grease fittings at the pivot pin must be removed, because the grease can cause a lock and the pivot pin can not be pushed into the Bob-Tach frame.



Hit the bolt, with a hammer to start the pivot pin into the Bob-Tach frame **[D]**. This will break the pin loose from the tapered seat.

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

Remove the Bob-Tach from the lift arms.

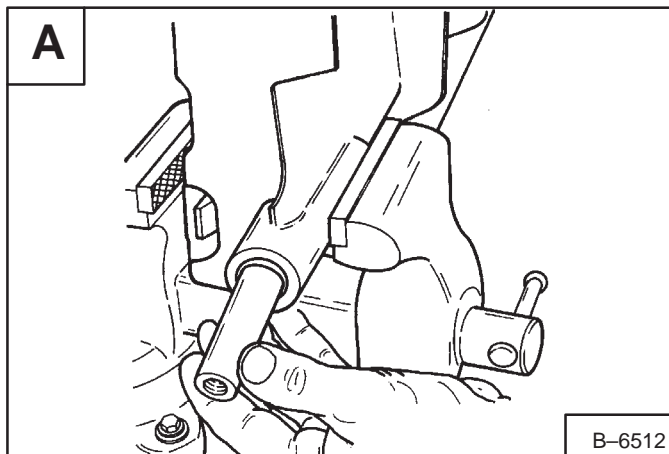


BOB-TACH (Cont'd)

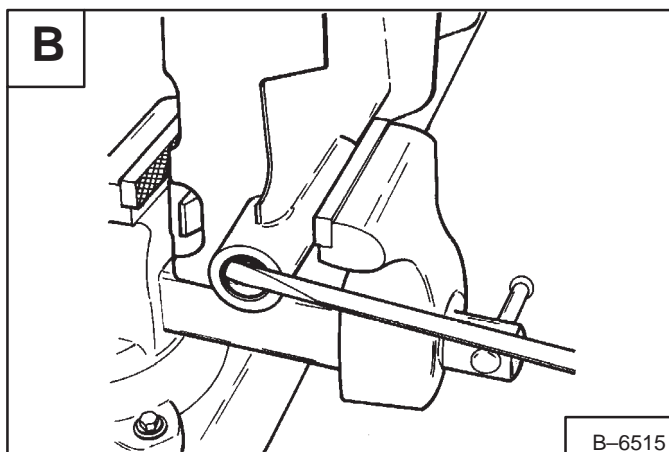
Disassembly of the Bob-Tach

Put the Bob-Tach on the work bench.

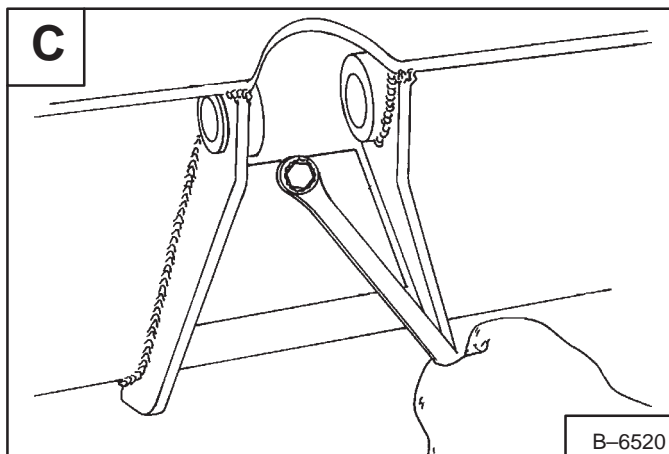
Remove the Bob-Tach pivot pins [A].



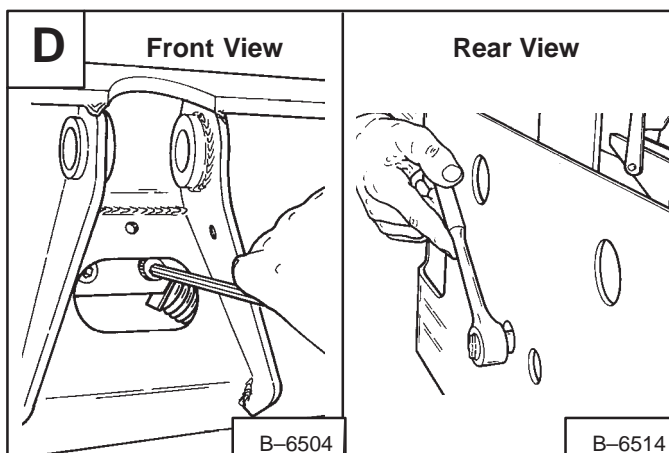
Remove the seal from the pivot pin [B].



Remove the cover plate from the back side of the the Bob-Tach [C].



Remove the pivot bolts from the Bob-Tach spring and linkage [D].



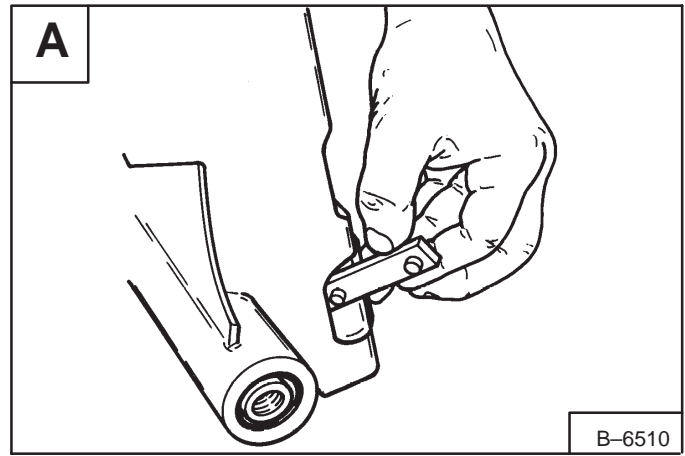
BOB-TACH (Cont'd)

Disassembly of the Bob-Tach (Cont'd)

Slide the wedge assembly into the Bob-Tach frame.

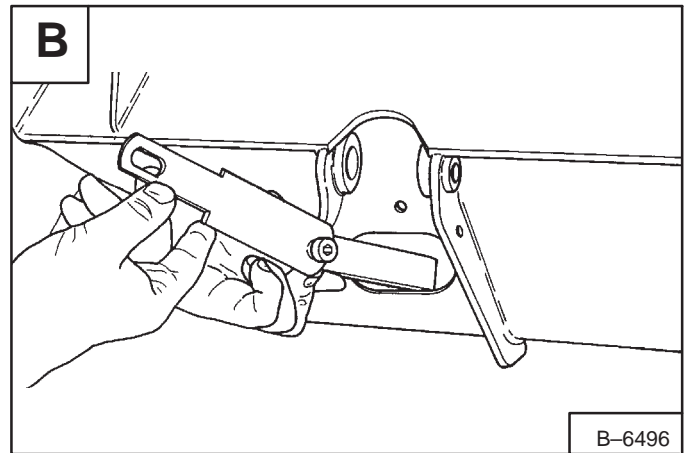
Remove the plastic guides from the Bob-Tach [A].

Slide the wedge assembly toward the outside of the frame so there will be clearance for the wedge lever to be removed from the rear hole on the Bob-Tach frame.

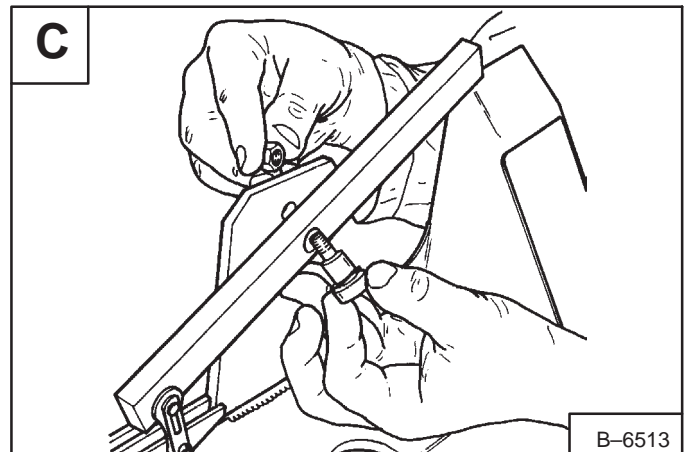


Remove the wedge assembly out of the rear hole on the Bob-Tach frame [B].

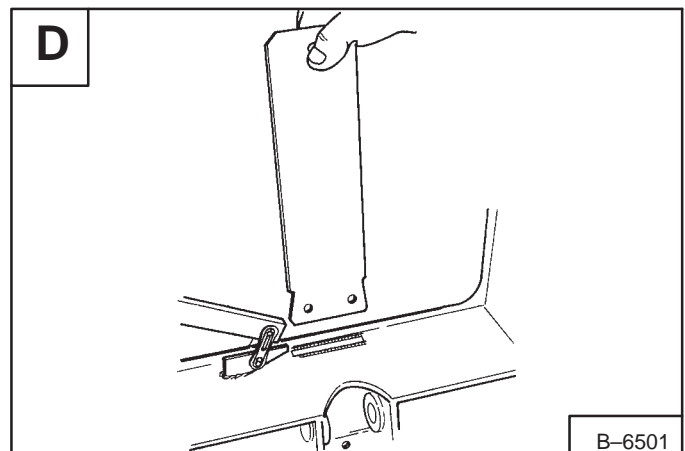
Repeat step the procedure to remove the wedge assembly from the other side.



Remove the pivot bolt from the Bob-Tach lever [C].



Remove the plate from the frame [D].



BOB-TACH (Cont'd)

Disassembly of the Bob-Tach (Cont'd)

Remove the guides from the frame **[A]**.

Clean and inspect all the parts for wear or damage. Replace the parts as needed.

Assembly of the Bob-Tach

Install the new guides into the frame **[A]**.

Install the plate into the frame. (See Page 5–10.)

Install the pivot bolt in the Bob-Tach lever. Tighten to 25–28 ft.-lbs. (34–38 Nm) torque.

Put the spring on the wedge lever. Push the spring together (Item 1) **[B]** and install a nail to hold the spring in position.

Install the wedge assembly into the hole at the rear of the Bob-Tach frame.

Use a screwdriver to guide the wedge into the hole at the side of the frame **[C]**.

Once the wedge assembly is in the frame, move it to the inside of the frame.

Install the new plastic guides in the frame.

Move the wedge into the plastic guides. Install the pivot bolt and tighten to 25–28 ft.-lbs. (34–38 Nm) torque. (See Page 5–9.)

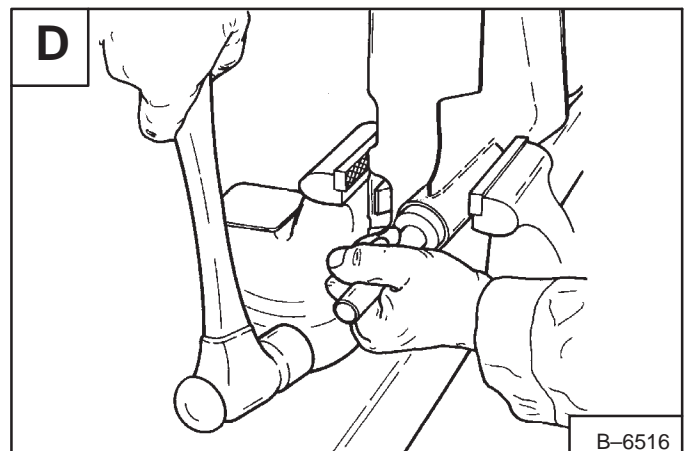
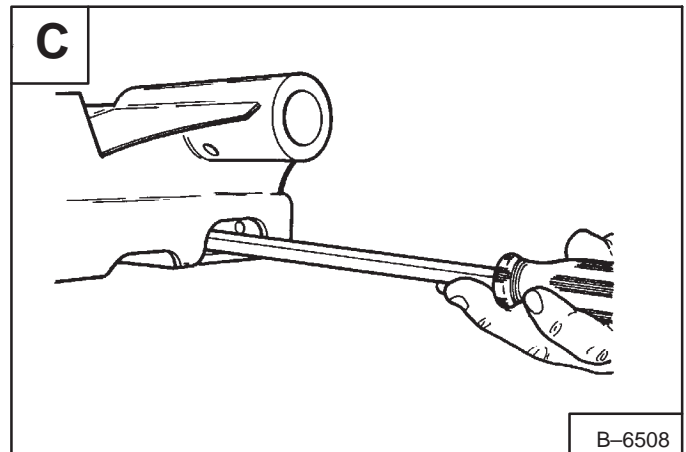
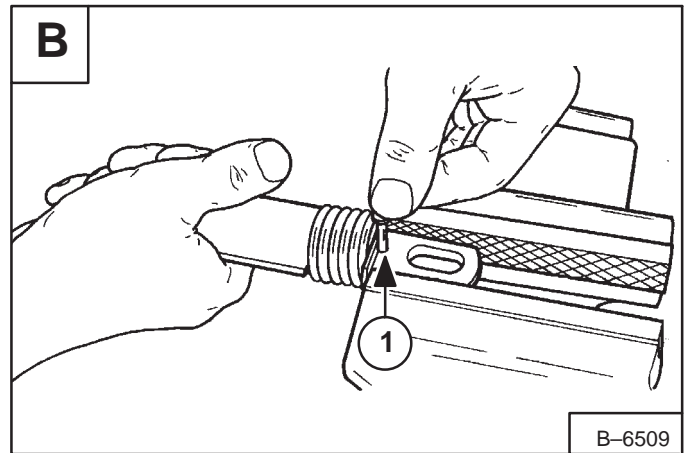
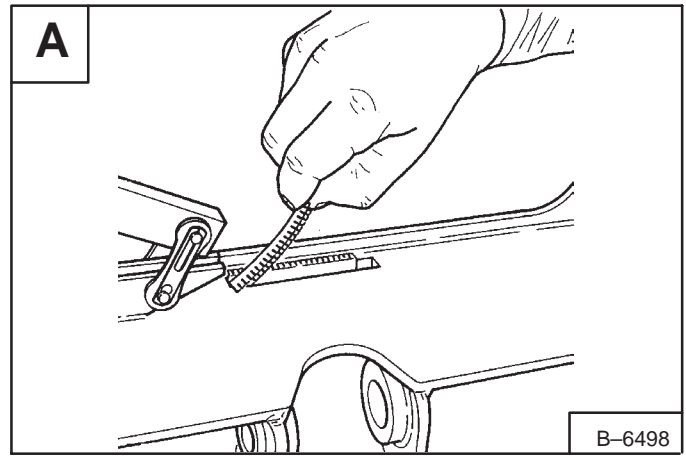
Repeat the procedure for the other side wedge assembly.

Use a plier, remove the nail from the spring to release the spring (both sides).

Install the rear cover. (See Page 5–9, **[C]**.)

Install a new seal at the pivot pin **[D]**.

Install the pivot pin. (See Page 5–9, **[A]**.)



BOB-TACH (Cont'd)

Installing the Bob-Tach

Put the Bob-Tach between the lift arms.

Use a long bolt, turn it into the pivot pin and pull the pin into the lift arms. Remove the long bolt (both sides).

Install the bolt into the pivot pin and tighten to 65–70 ft.-lbs. (88–95 Nm) torque **[A]**.

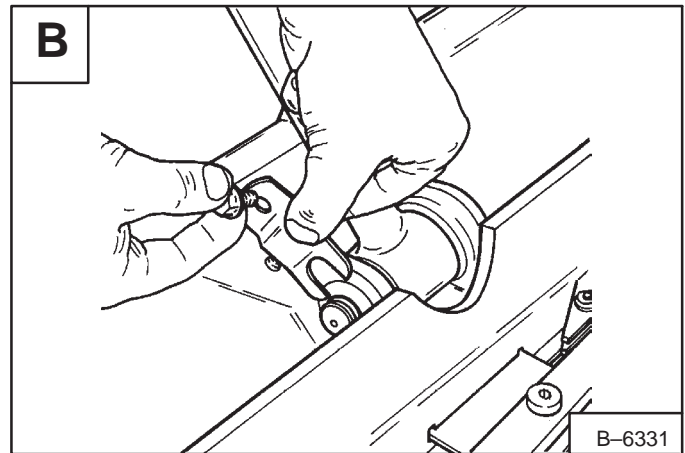
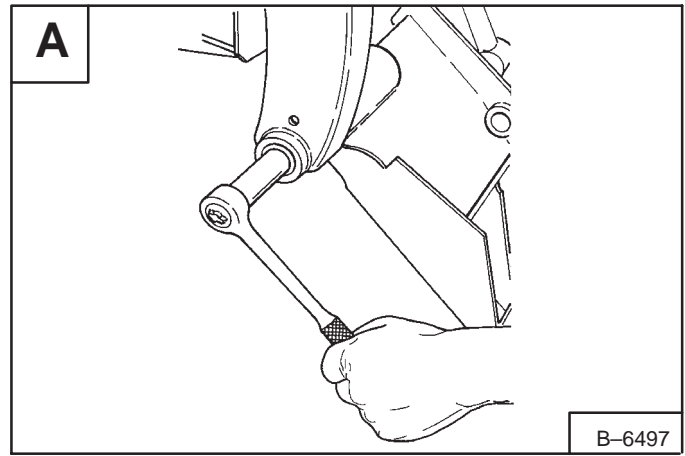
Install the grease fittings (2) and lubricate the pivot pins.

Put a floor jack under the Bob-Tach frame.

Lift the Bob-Tach frame with the floor jack until the tilt cylinder rod end is aligned with the holes in the Bob-Tach frame.

Install the rod end pin.

Install the retainer plate and bolt. Tighten the bolt to 18–20 ft.-lbs. (24–27 Nm) torque **[B]**.



REAR DOOR

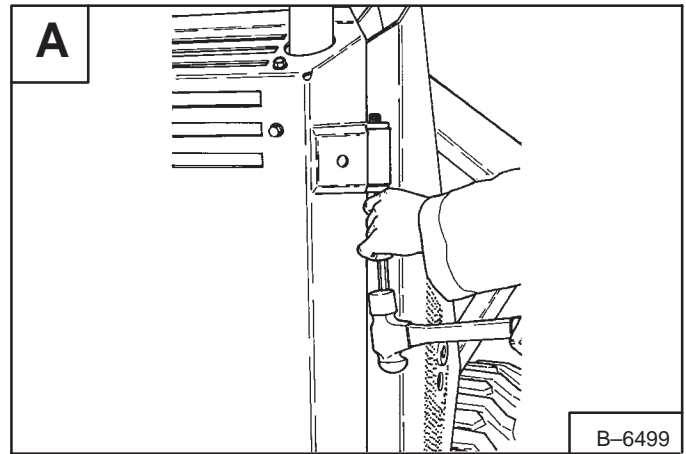
Removing the Rear Door



WARNING

Keep the rear door closed when operating the machine. Failure to do so could seriously injure a bystander.

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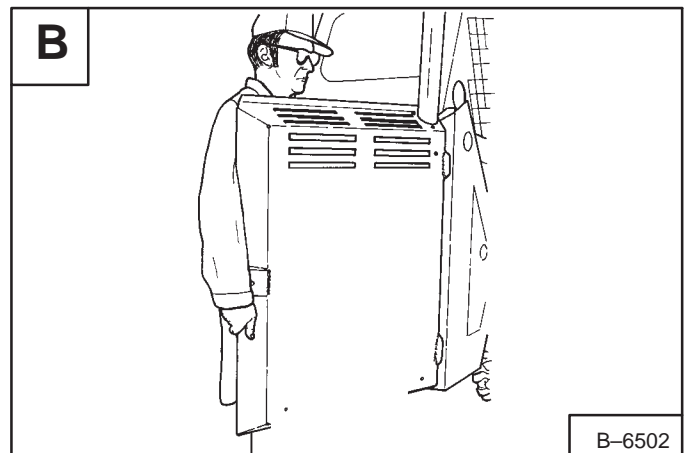
Open the rear door.

Have a second person hold the rear door and remove the hinge pins [A].

Remove the rear door from the loader [B].

Installing the Rear Door

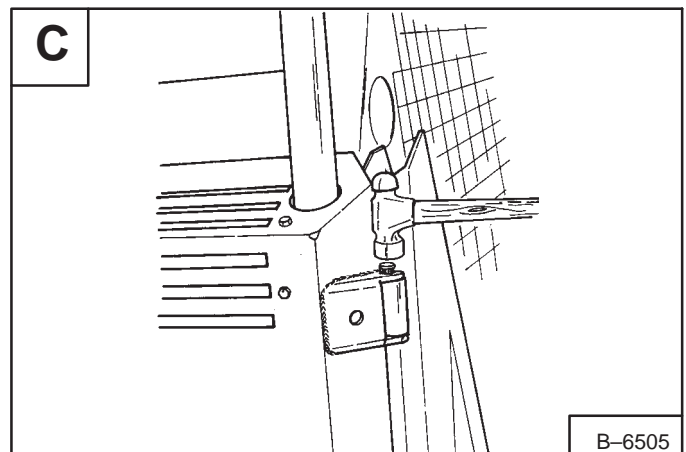
Install the rear door on the hinges [B].



Install the hinge pins [C].

Close the rear door. Install the latch pin.

NOTE: The rubber stops can be adjusted for a tight fit when the rear door is closed.



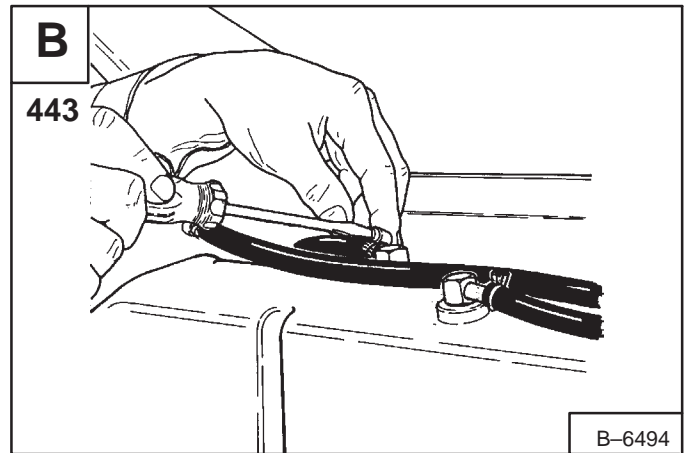
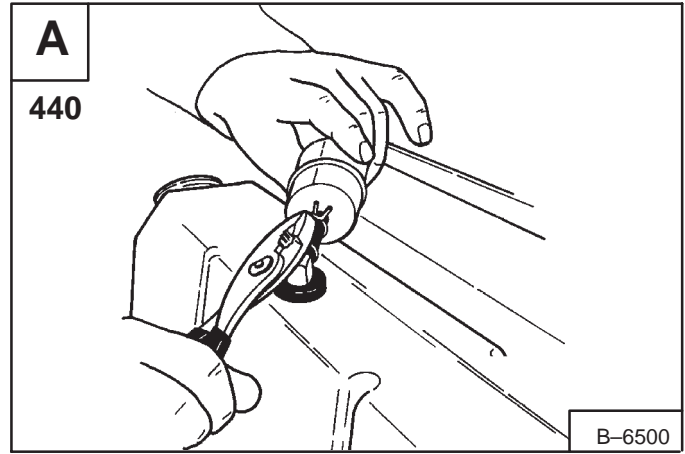
FUEL TANK

Removing the Fuel Tank

Raise the operator cab. (See Page 5–3.)

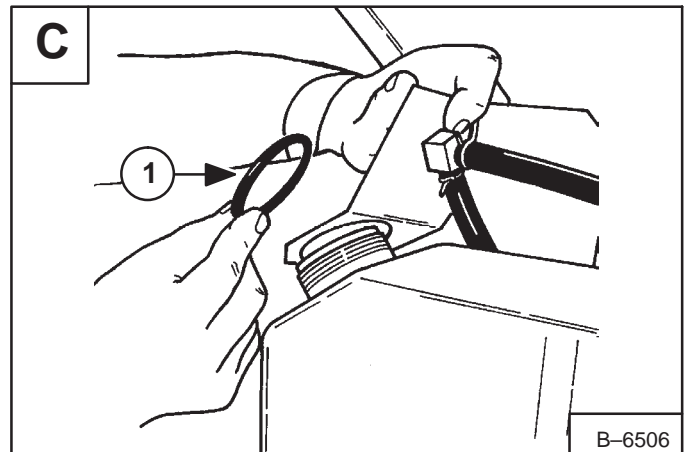
Remove the fuel line from the top of the tank for the 440 loader **[A]**. Remove the two fuel lines from the top of the fuel tank on the 443 loader **[B]**.

Remove the fuel gauge from the fuel tank.



Remove the O-ring (Item 1) **[C]**.

Remove the fuel shut-off mounting plate from the fuel tank neck **[C]**.



Remove the bolts from the fuel tank mounting strap **[D]**.

Remove the fuel tank from the loader.

Installing the Fuel Tank

Install the fuel tank in the loader.

Install the mounting strap and tighten the bolts **[D]**.

Install the fuel shut-off mounting plate on the neck of the fuel tank **[C]**.

Install the O-ring (Item 1) **[C]**.

Install the fuel gauge and tighten.

Connect the fuel line(s) **[A]** & **[B]**.

Make sure the fuel shut-off is in the open position.

Lower the operator cab. (See Page 5–4.)

