

CENTER SWIVEL JOINT

Removal And Installation

Raise the back of the machine.

Use jackstands under the machine frame.

IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

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Remove the bolts from the plate below the swivel joint [A].

Remove the plate.

Mark all the hoses for correct installation.

Disconnect all the hoses from the swivel joint [B].

Remove the four mounting bolts (Item 1) [B].

Installation: Add LOCTITE and tighten the bolts to 15–18 ft.-lbs. (20–25 Nm) torque.

Remove the center swivel joint from the track frame.

Disassembly And Assembly

Remove the bolts (Item 1) [C].

Remove the end plate (Item 2) [C].

Remove the end plate (Item 3) [C] from the end of the rotor.

Remove the rotor (Item 4) [C] from the housing.

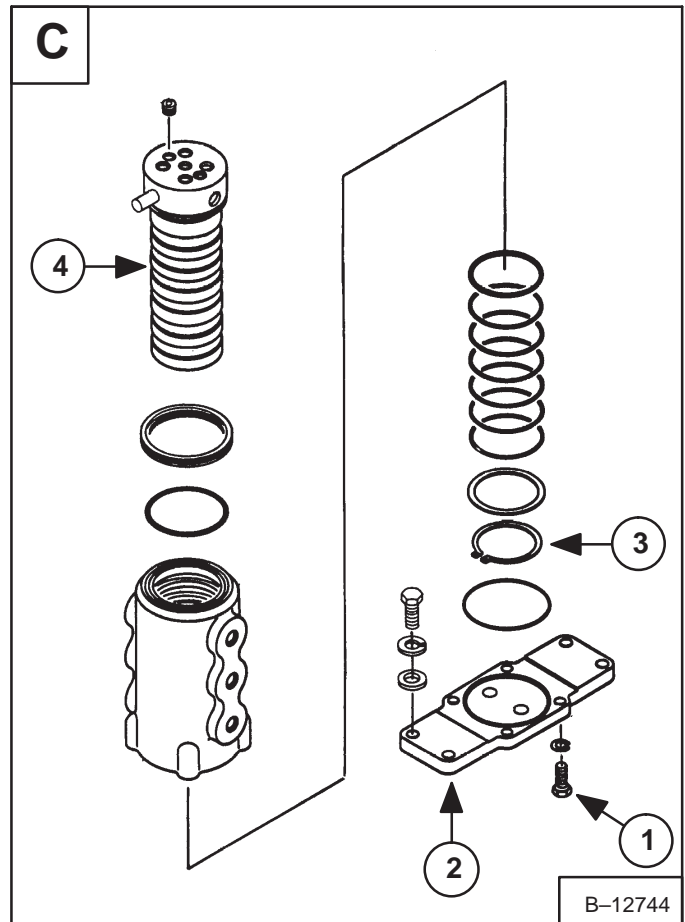
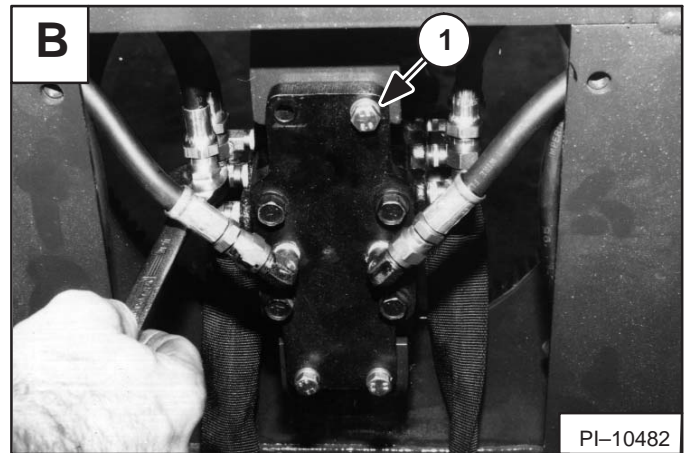
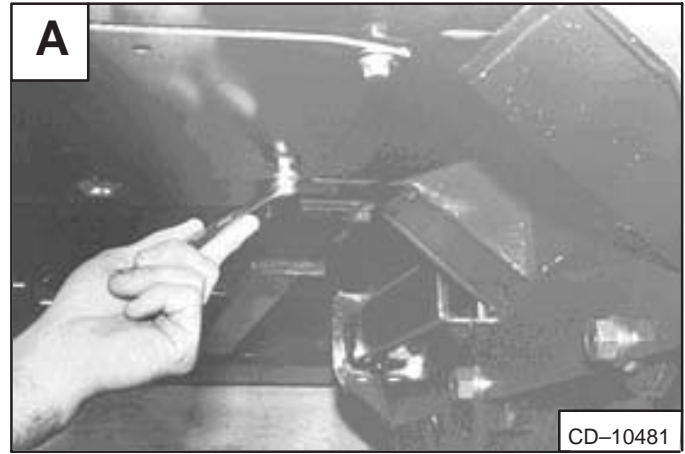
NOTE: Tap the rotor lightly with a rubber hammer if needed for removal.

Check the condition of the O-rings and seal.

Check the rotor and housing for scratches or wear marks.

Use grease or hydraulic oil on the O-rings and seal during assembly.

Assemble the swivel joint in reverse order.



SWING CIRCLE GEAR

Removal And Installation

Remove the upper works from the swing circle gear. (See Page 4-5.)

There is an S (Item 1) [A] stamped on the swing gear, make sure this mark is located to either side of the center line of the machine.

Remove the bolts from the swing circle gear [B].

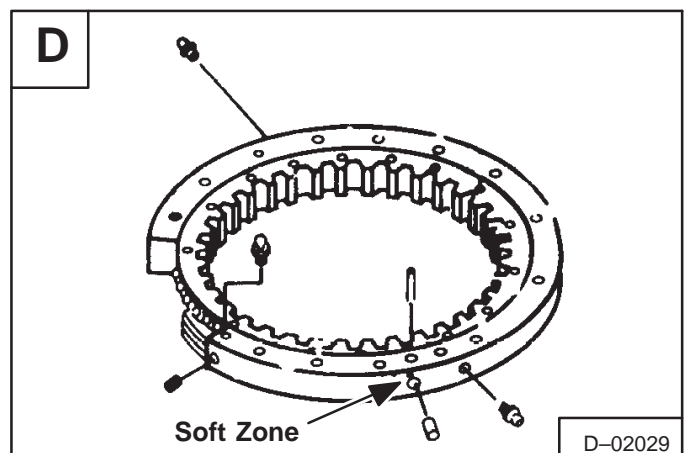
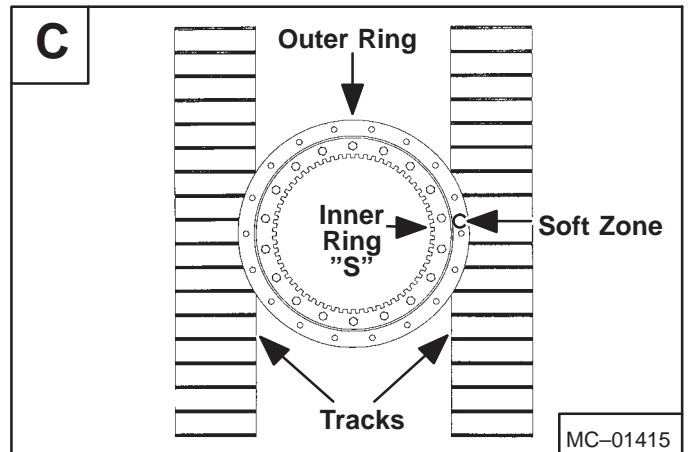
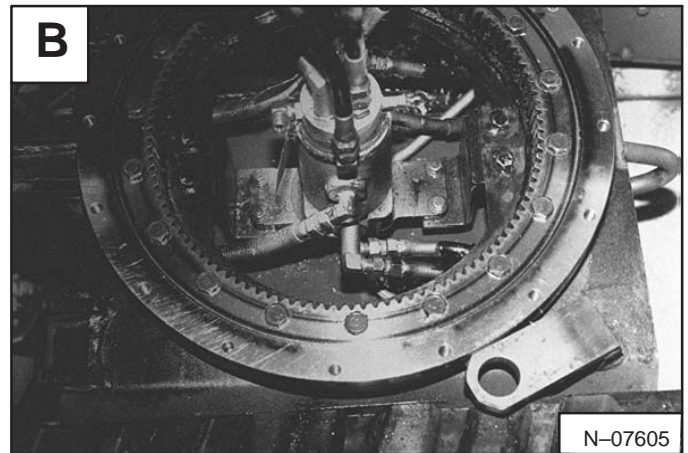
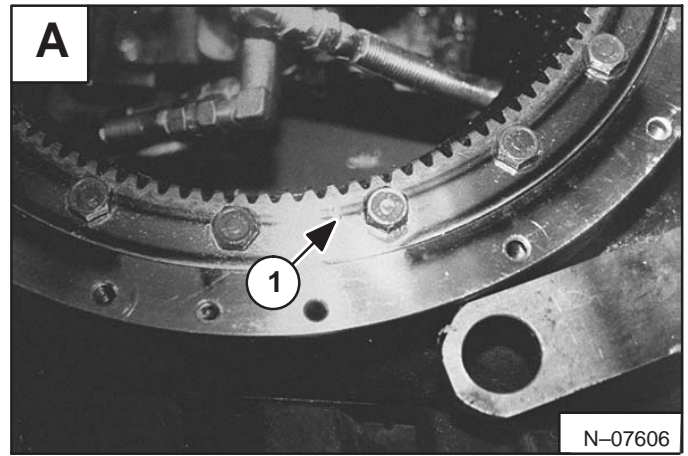
Installation: Add LOCTITE and tighten the bolts to 44-47 ft.-lbs. (60-65 Nm) torque.

Use a chain hoist to remove the swing circle gear.

Always replace the seal when installing the swing circle gear.

Position the outer ring soft zone to either side of the center line of the machine when installing the swing frame on the track frame [C] & [D].

NOTE: The soft zone can be located by the filler plug in the outer ring [D].





MAIN FRAME AND TRACKS

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MAIN FRAME & TRACKS



ENGINE COVER

Removal And Installation

Open the engine cover.

Remove the retainer clip and washer from the rod end pin of the gas cylinder **[A]**.

Remove the retainer clip from the base end pin of the gas cylinder.

Hold the engine cover and remove the gas cylinder. Close the engine cover.



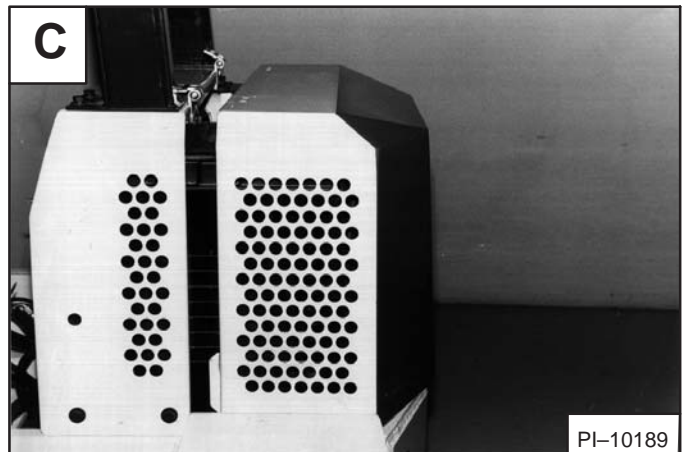
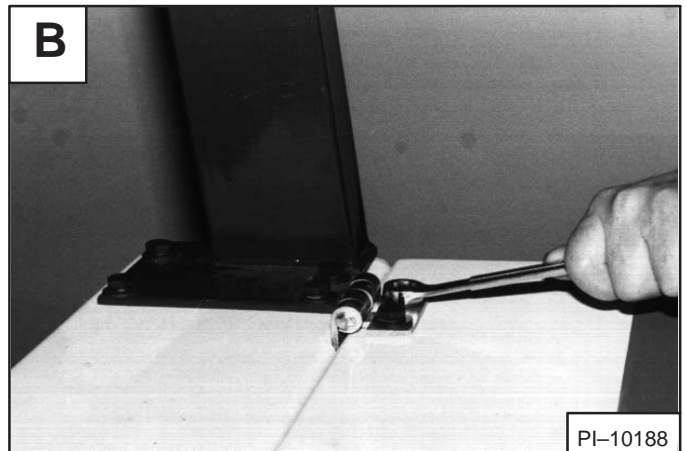
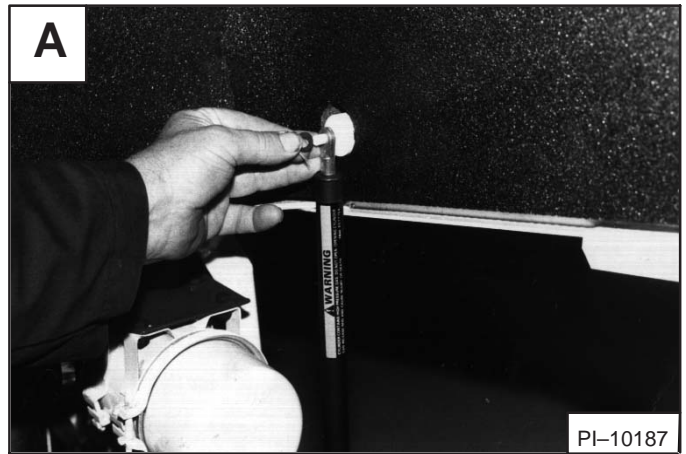
WARNING

Cylinder contains high pressure gas. Do not open. Opening cylinder can release rod and cause injury or death.

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Remove the bolts from the hinge (both sides) **[B]**.

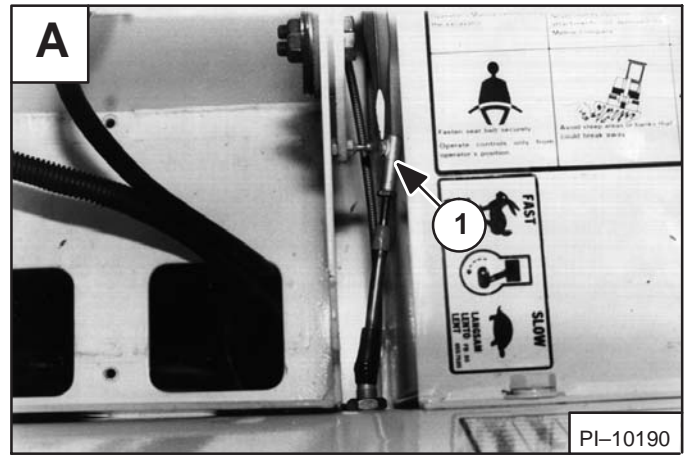
Remove the engine cover from the machine **[C]**.



SEAT AND MOUNTING FRAME

Removal And Installation

Disconnect the throttle cable (Item 1) [A].

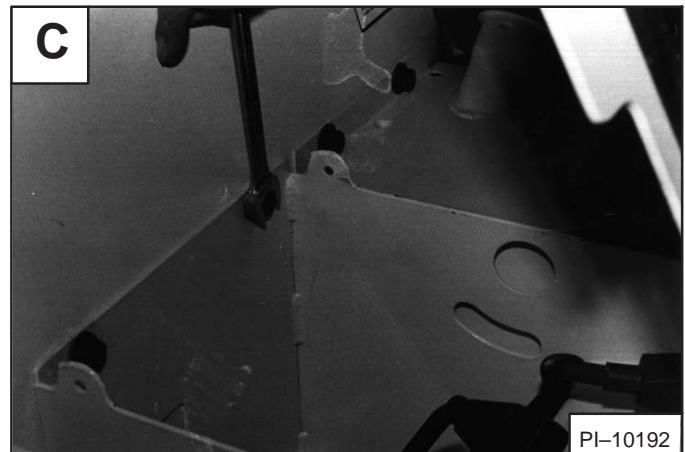


Remove the shut-down cable [B].

Disconnect and remove the battery. (See Page 6-1.)



Remove the bolts from the seat mounting frame [C].



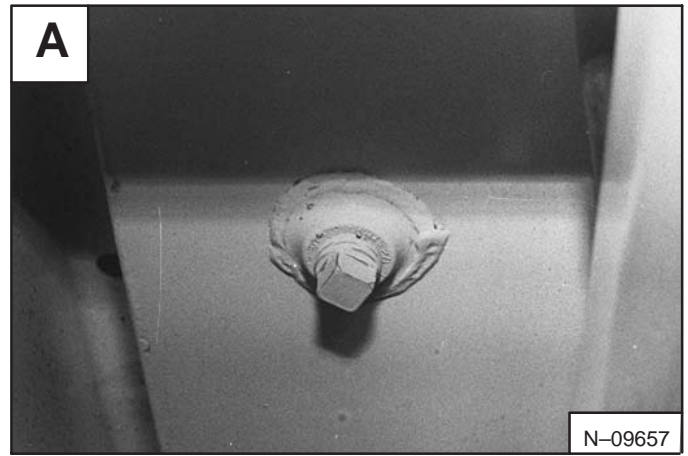
Remove the seat mounting frame [D].



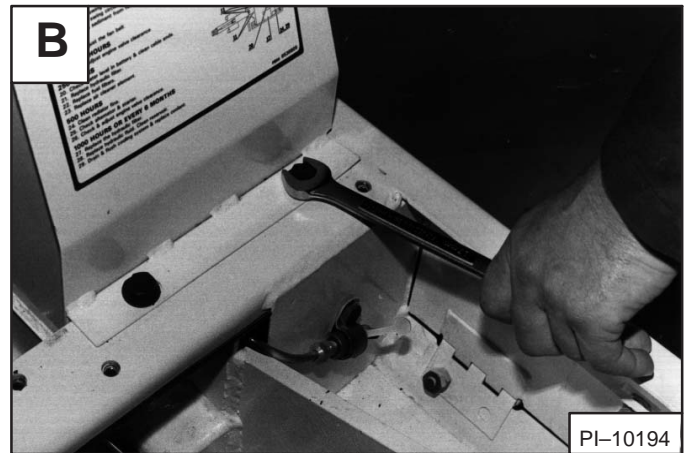
FUEL TANK

Removal And Installation

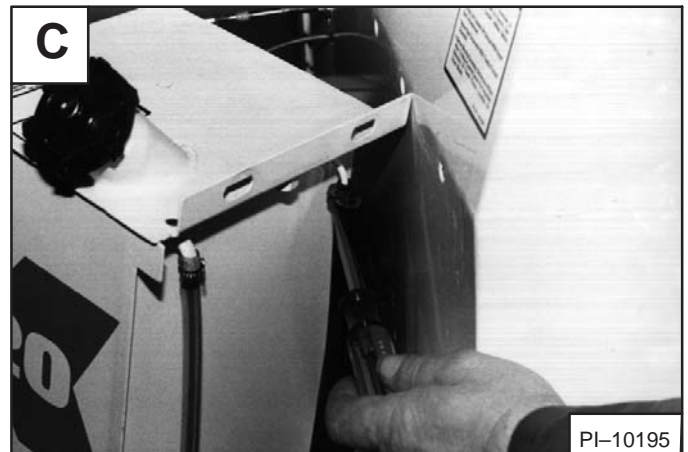
Remove the plug to drain the fuel from the tank into a container [A].



Remove the fuel tank mounting bolts [B].



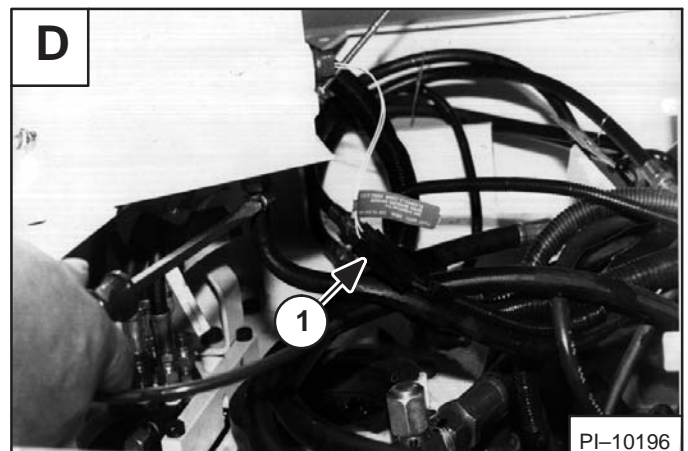
Disconnect the fuel return line [C].



Lift and move the fuel tank forward. Disconnect the fuel supply hose [D].

Disconnect the electrical harness (Item 1) [D].

Remove the fuel tank from the machine.



BOOM AND DIPPERSTICK

Removal And Installation

Remove the retainer bolts (Item 1) [A] from the bucket pins.

Remove the bucket pins and remove the bucket.

Lower the boom and dipperstick to the floor. Stop the engine.

Move the control to release the hydraulic pressure.

Mark all the hoses for correct installation.

Disconnect the hoses from the tubelines [B].

IMPORTANT

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NOTE: I.S.O. and U.S. control patterns require different locations of the boom and dipperstick restrictors. Mark the location of the restrictors for correct installation [C] & [D].

