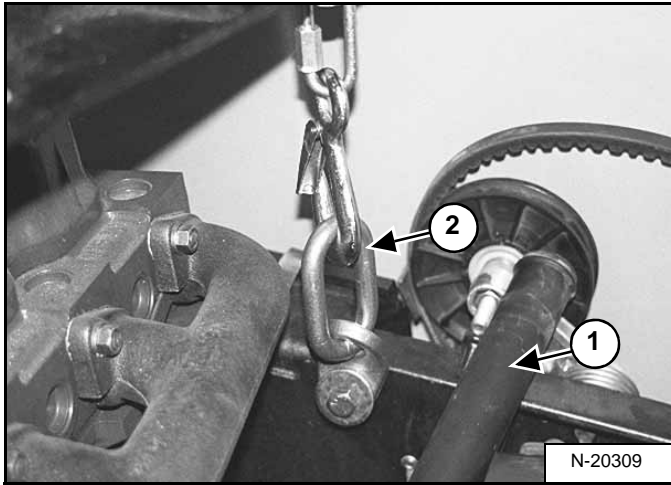


## ENGINE (CONT'D)

### Removal And Installation (Cont'd)

Figure 70-80-25

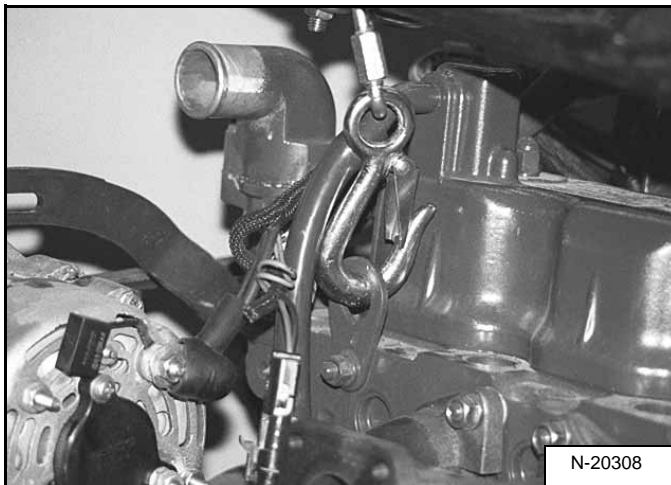


Remove coolant tube (Item 1) [Figure 70-80-25] from the flywheel housing.

Install a lift eye (Item 2) [Figure 70-80-25].

Fasten securely one end of the chain to the lifting eye.

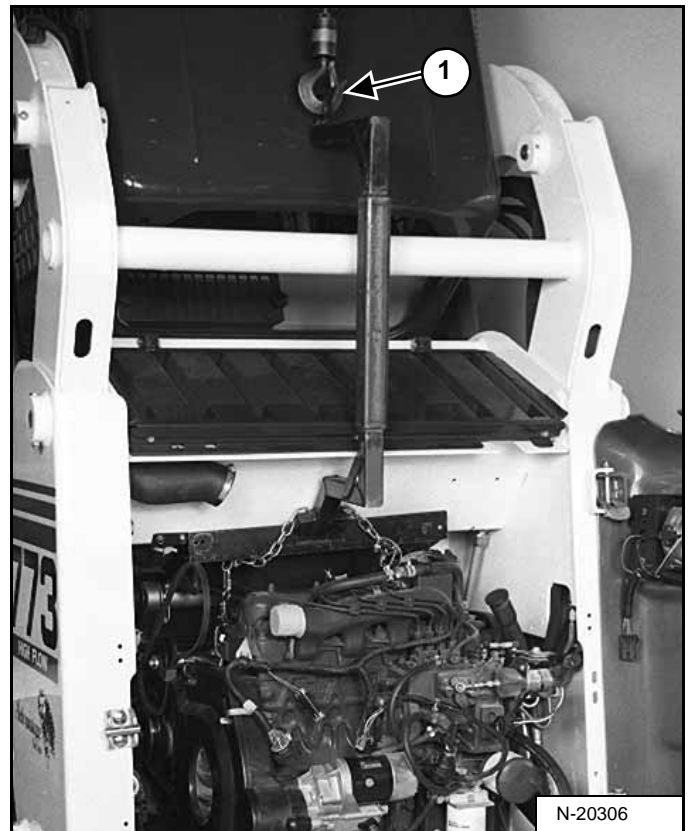
Figure 70-80-26



Fasten securely one end of the chain to one of the lifting brackets on the engine [Figure 70-80-26].

**NOTE:** You may need to adjust the chain which fastens to the engine a couple of times to reach the correct lifting position.

Figure 70-80-27



Install the chain hoist on the eyelet (Item 1) [Figure 70-80-27] of the removal tool.

Fasten a chain to other end of the removal tool with two bolts as shown in [Figure 70-80-27].

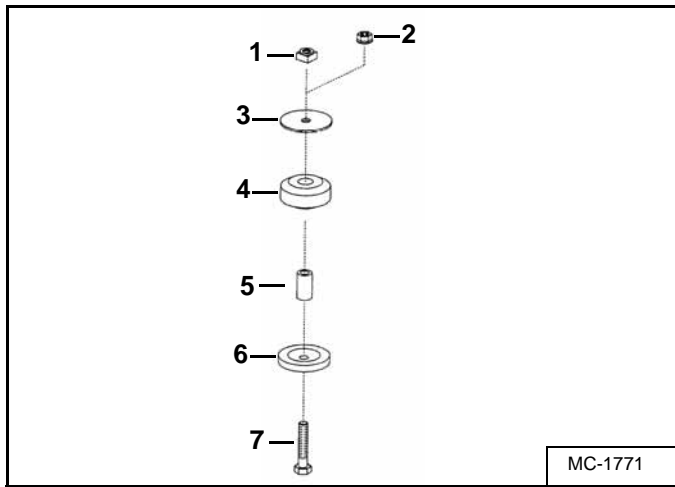
Remove the engine/hydrostatic pump assembly from the loader.

Reverse the removal procedure to install the engine.

## ENGINE (CONT'D)

### Engine Mount Replacement

Figure 70-80-28



Use the following procedure to install new engine mounts:

Remove the existing mount from the engine. Refer to engine removal and installation for engine mount locations.

Replace all four engine mounts two front and two rear.

Use the parts shown to install the new engine mounts [Figure 70-80-28]:

Square Nut - (Item 1) - Used on left side engine mounts

Hex Nut - (Item 2) - Used on right side engine mounts

Mount Washer - (Item 3)

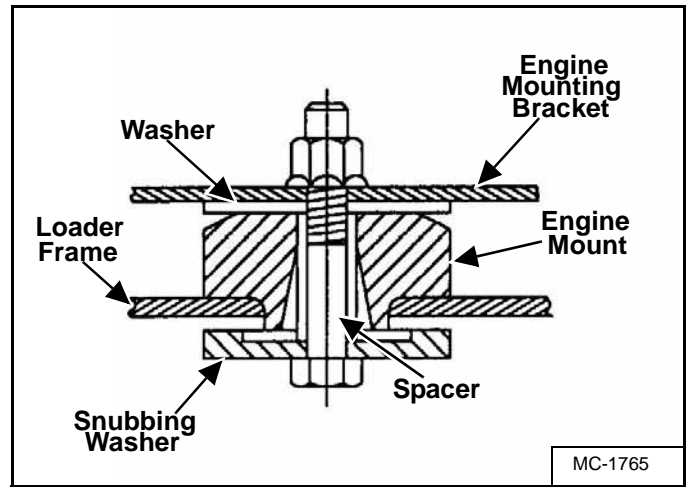
Engine Mount - (Item 4)

Tube Spacer - (Item 5)

Snubbing Washer - (Item 6)

Mounting Bolt - (Item 7)

Figure 70-80-29



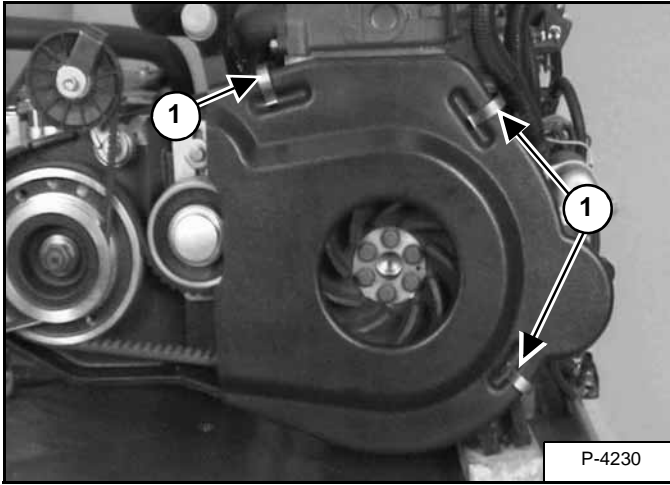
Install the new engine mount as shown in the cut away side view [Figure 70-80-29].

Tighten the mounting bolts to 70 ft.-lbs. (95 Nm) torque.

## FLYWHEEL AND HOUSING

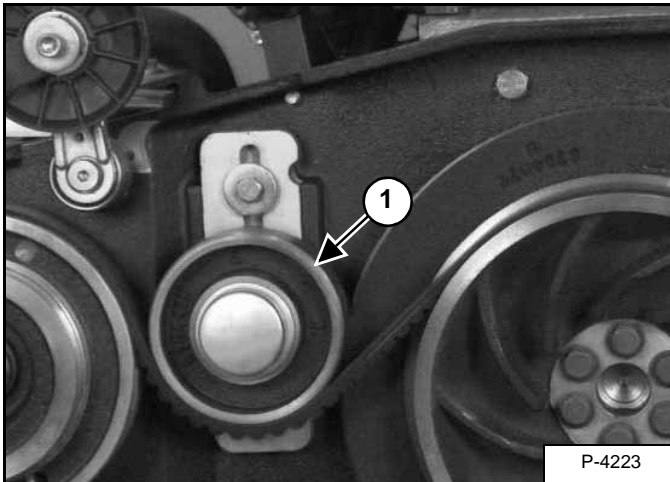
### Flywheel Removal And Installation

Figure 70-90-1



Remove the three belt shield clips (Item 1) [Figure 70-90-1] and remove the shield from the drive belt housing.

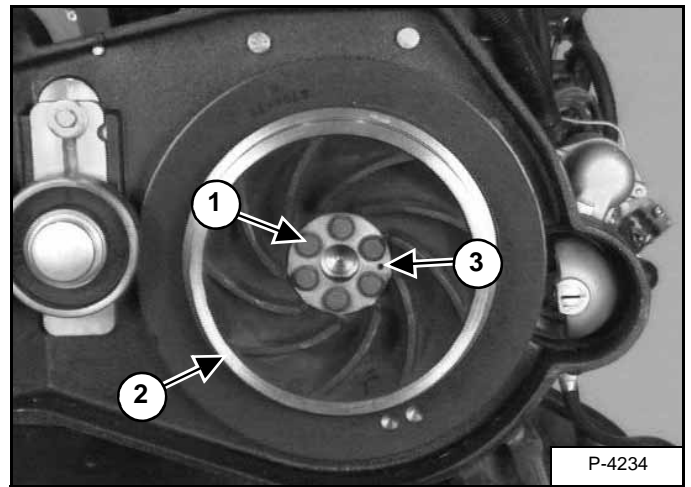
Figure 70-90-2



Loosen and remove the drive belt tension pulley (Item 1) [Figure 70-90-2].

Remove the drive belt. (See Drive Belt Adjusting on Page 30-50-1 for drive belt adjustment procedure.)

Figure 70-90-3



Remove the six mounting bolts (Item 1) from the engine flywheel (Item 2) [Figure 70-90-3].

**Installation:** Apply engine oil to the threads and seats before tightening. Tighten to 72-80 ft.-lbs. (98-108Nm) torque.

Remove the flywheel from the engine.

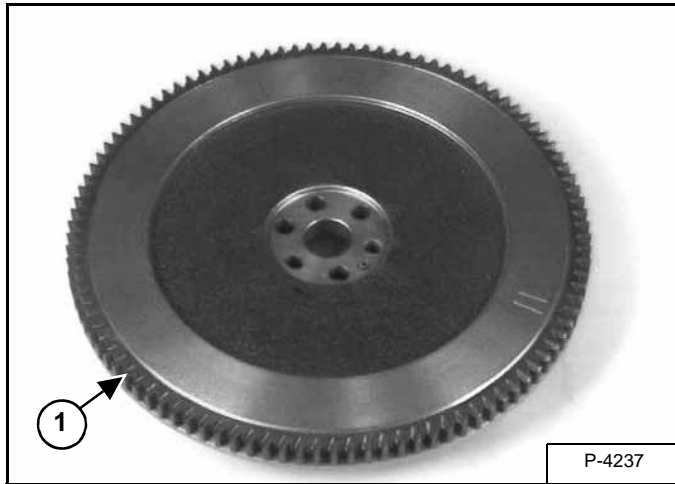
**Installation:** Be sure to align the hole (Item 3) [Figure 70-90-3] in the flywheel with the pin located on the crankshaft.

Reverse the removal procedure to install the flywheel.

## FLYWHEEL AND HOUSING (CONT'D)

### Ring Gear Removal And Installation

Figure 70-90-4



**NOTE:** Photo's may be different but the procedure is the same for all models.

The ring gear (Item 1) [Figure 70-90-4] on the flywheel is an interference fit. Heat the ring gear enough to expand the gear. Hit the ring gear evenly around the gear to remove it from the flywheel.

Clean the outer surface of the flywheel thoroughly so the new ring gear will fit smoothly onto the flywheel.

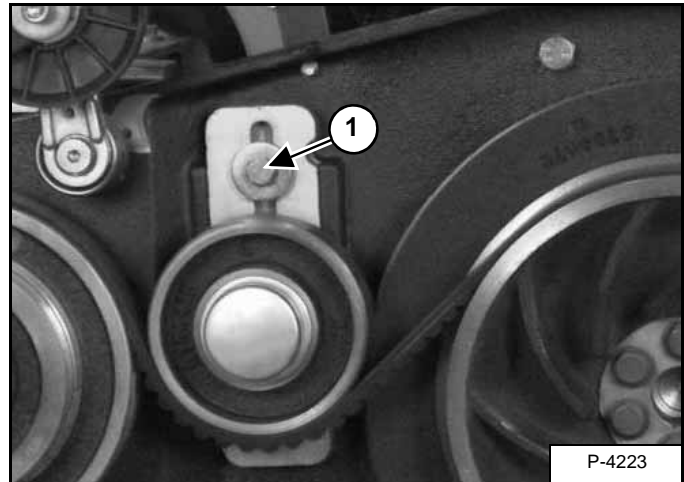
Clean the new ring gear and heat it to a temperature of 450°-500° F. (232°-260° C.)

Fit the ring on the flywheel and be sure the gear is seated correctly.

**NOTE:** The ring is installed with the edge with the chamfered teeth facing up.

## Housing Removal And Installation

Figure 70-90-5

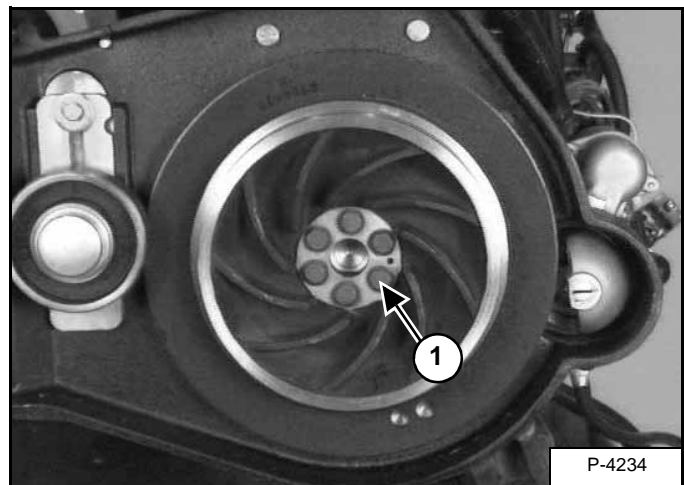


Loosen the drive belt tensioner bolt (Item 1) [Figure 70-90-5] from the housing and remove the drive belt.

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

Adjust the drive belt. (See Drive Belt Adjusting on Page 30-50-1.)

Figure 70-90-6



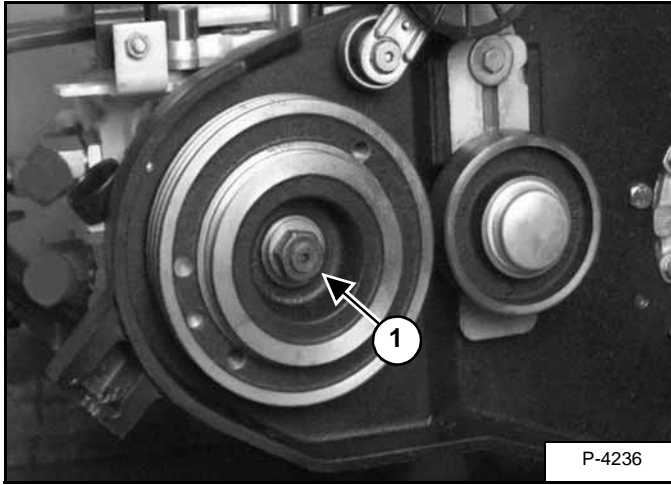
Remove the six flywheel mounting bolts (Item 1) [Figure 70-90-6] and remove the engine flywheel.

**Installation:** Apply engine oil to the threads and seats before tightening. Tighten the mounting bolts to 72-80 ft.lbs. (98-108 Nm) torque.

## FLYWHEEL AND HOUSING (CONT'D)

### Housing Removal And Installation (Cont'd)

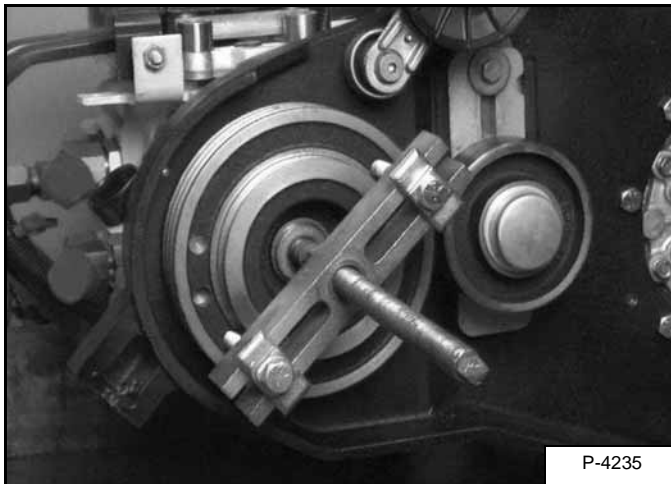
Figure 70-90-7



Remove the hydrostatic pump drive pulley mounting nut (Item 1) [Figure 70-90-7] and washer.

**Installation:** Tighten the mounting nut to 175-200 ft.-lbs. (237-271 Nm) torque.

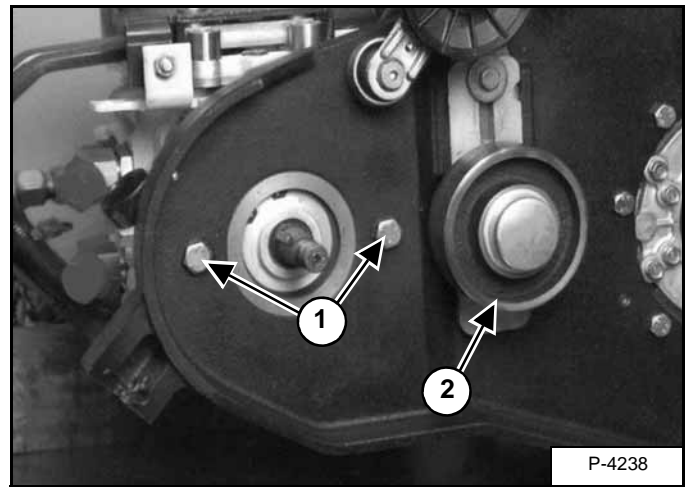
Figure 70-90-8



Install a puller in the drive pulley and remove the pulley from the hydrostatic pump shaft [Figure 70-90-8].

**Installation:** Install the pulley key in the shaft before installing the drive pulley.

Figure 70-90-9

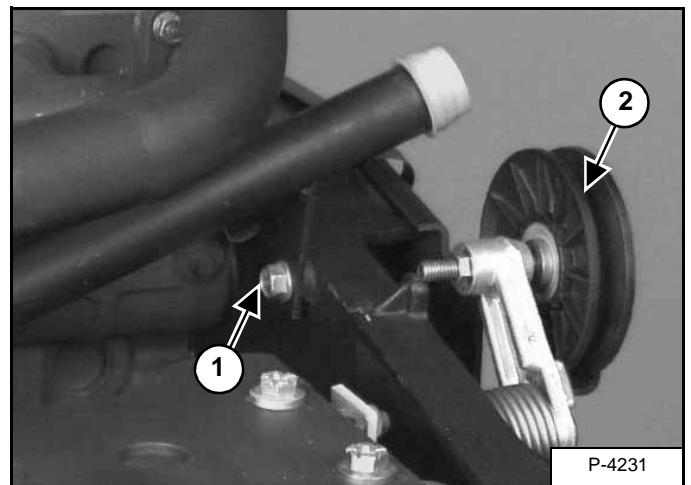


Remove the two mounting bolts (Item 1) [Figure 70-90-9] from the drive belt housing which mount the hydrostatic pump to the housing.

**Installation:** Tighten the mounting bolts to 65-70 ft.-lbs. (88-95 Nm) torque.

Remove the drive belt tensioner (Item 2) [Figure 70-90-9] from the drive belt housing. (See DRIVE BELT on Page 30-50-1.)

Figure 70-90-10



Remove the mounting bolt (Item 1) [Figure 70-90-10] from engine coolant tubeline mounting bracket which is attached to the belt shield housing.

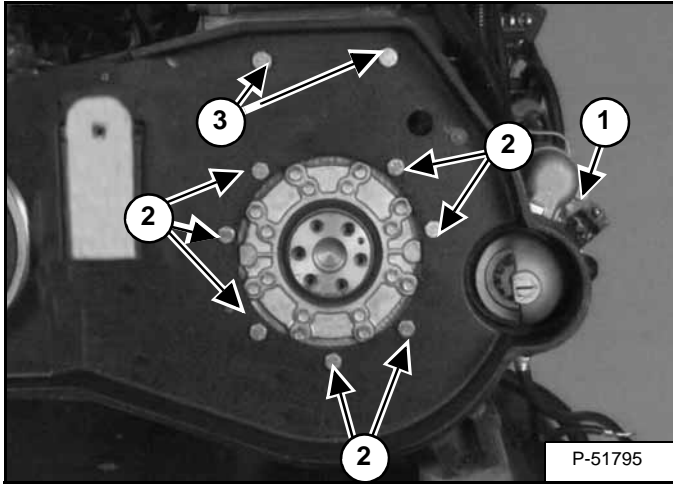
**Installation:** Tighten the mounting bolt to 25-28 ft.-lbs. (34-38 Nm) torque.

Remove the blower fan drive belt tensioner assembly (Item 2) [Figure 70-90-10] from the housing.

## FLYWHEEL AND HOUSING (CONT'D)

### Housing Removal And Installation (Cont'd)

Figure 70-90-11



Remove the starter (Item 1) [Figure 70-90-11] from the housing. (See Removal And Installation on Page 60-40-1 or See Removal And Installation on Page 60-41-2)

Remove the seven mounting bolts (Item 2) [Figure 70-90-11] which fasten the housing to the engine.

**Installation:** Tighten the mounting bolts to 35-40 ft.-lbs. (48-54 Nm) torque.

Remove the bolts (Item 3) [Figure 70-90-11] which fasten the housing to the engine.

**Installation:** Tighten the mounting bolts to 60-65 ft.-lbs. (82-88 Nm) torque.

Reverse the removal procedure to install the housing.