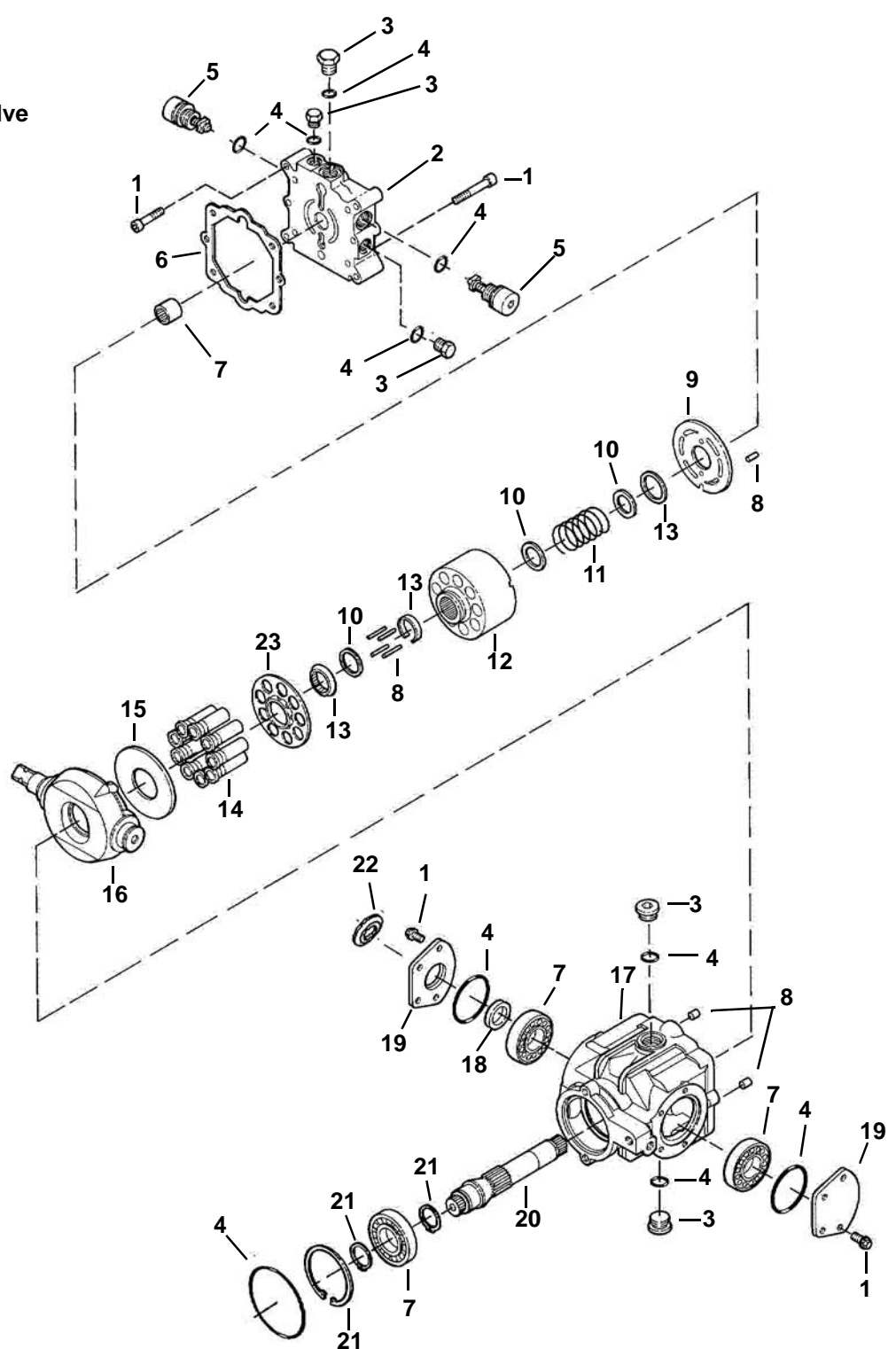


HYDROSTATIC PUMP (CONT'D)

Parts Identification (Right Half)

- | Ref. | Description |
|------|---|
| 1. | Bolt |
| 2. | End Cap |
| 3. | Plug |
| 4. | O-ring |
| 5. | Replenishing/High Pressure Relief Valve |
| 6. | Gasket |
| 7. | Bearing |
| 8. | Pin |
| 9. | Valve Plate |
| 10. | Washer |
| 11. | Spring |
| 12. | Block |
| 13. | Retainer |
| 14. | Piston Assembly |
| 15. | Wear Plate |
| 16. | Swashplate |
| 17. | Housing |
| 18. | Seal |
| 19. | Cover |
| 20. | Shaft |
| 21. | Snap Ring |
| 22. | Dust Seal |
| 23. | Piston Retainer |

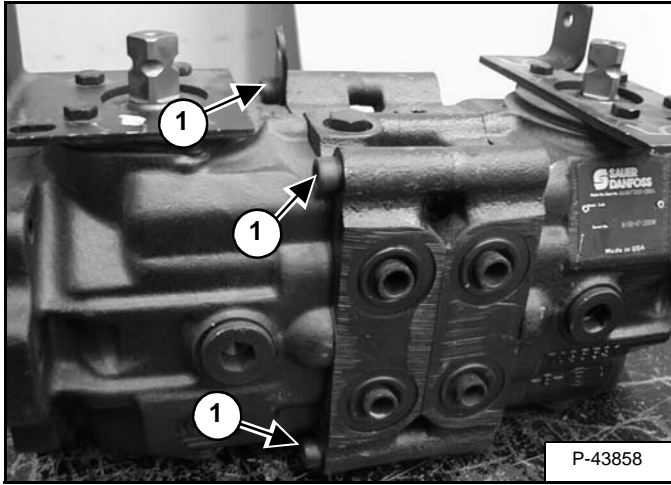


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HYDROSTATIC PUMP (CONT'D)

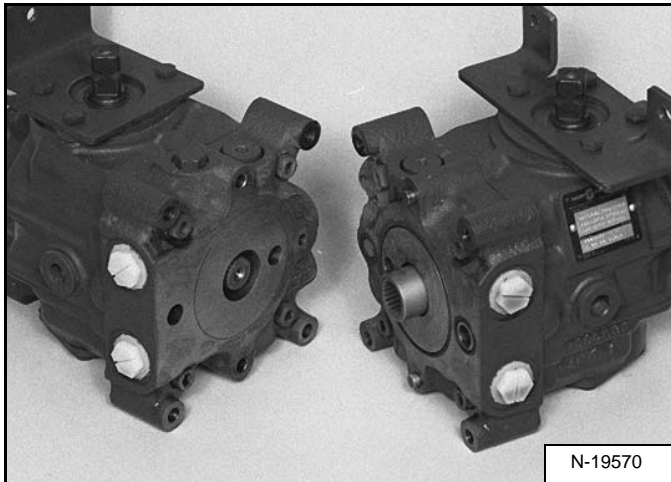
Disassembly

Figure 30-40-7



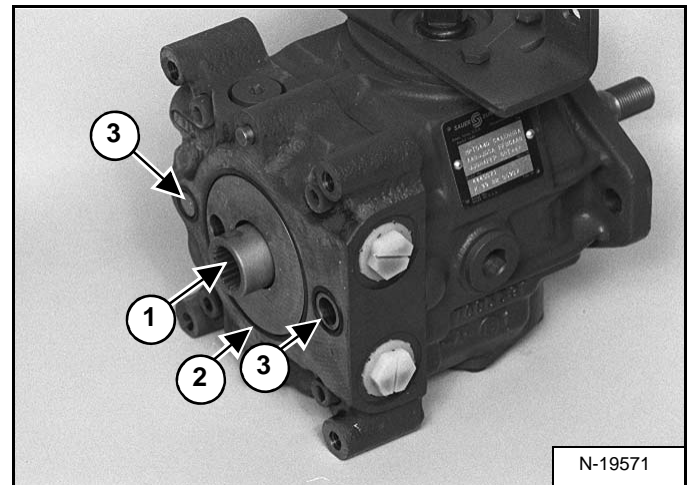
Remove the four mounting bolts (Item 1) [Figure 30-40-7].

Figure 30-40-8



Separate the two hydrostatic pumps [Figure 30-40-8].

Figure 30-40-9

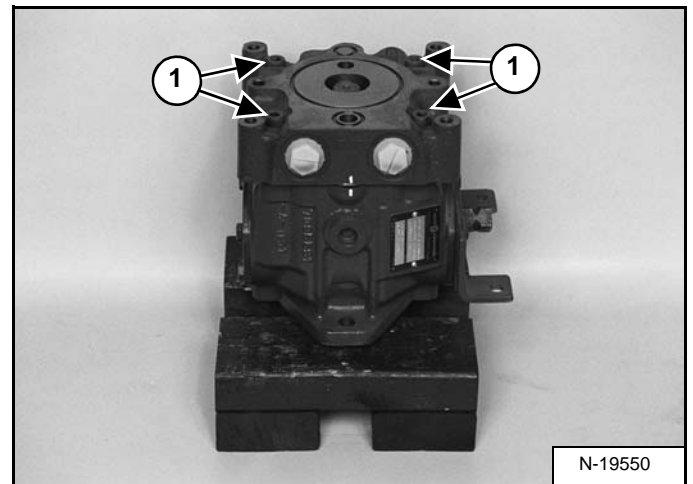


Remove the pump coupler (Item 1) [Figure 30-40-9].

Remove the large O-ring (Item 2) [Figure 30-40-9].

Remove the two small O-rings (Item 3) [Figure 30-40-9].

Figure 30-40-10

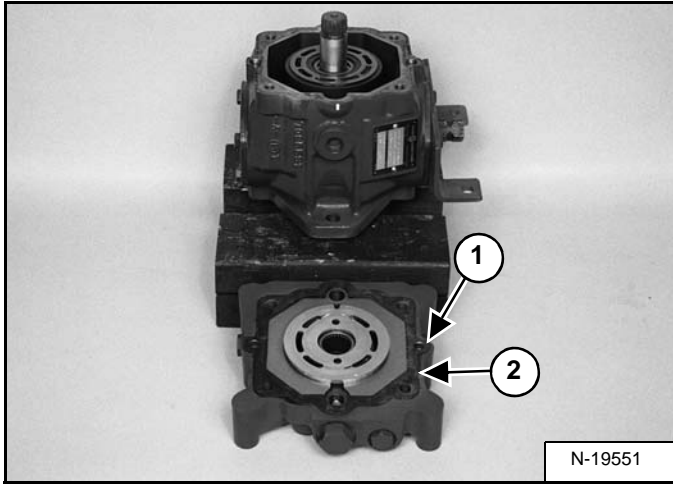


Remove the four bolts (Item 1) [Figure 30-40-10] from the pump housing end cap.

HYDROSTATIC PUMP (CONT'D)

Disassembly (Cont'd)

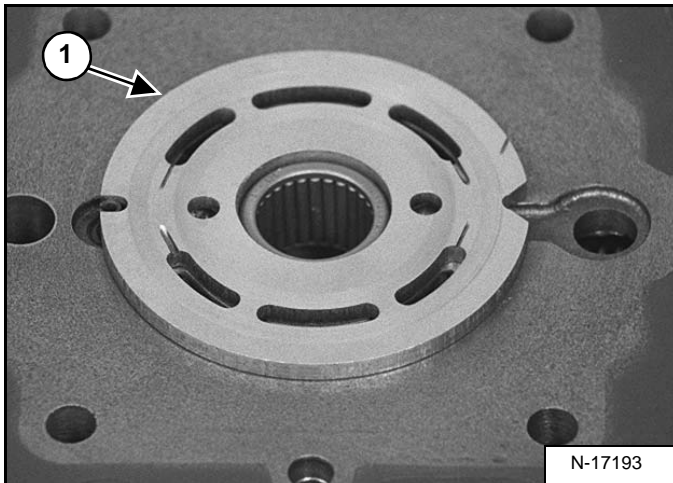
Figure 30-40-11



Remove the pump housing end cap (Item 1) [Figure 30-40-11].

Remove the gasket (Item 2) [Figure 30-40-11].

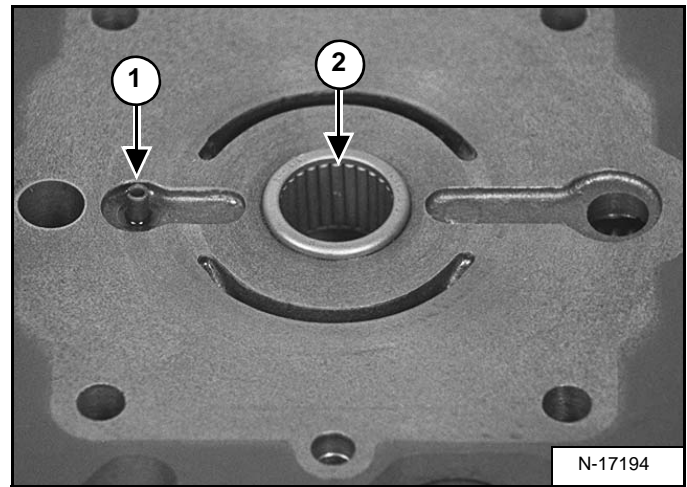
Figure 30-40-12



Remove the valve plate (Item 1) [Figure 30-40-12].

Check the valve plate for wear. (Both Sides.)

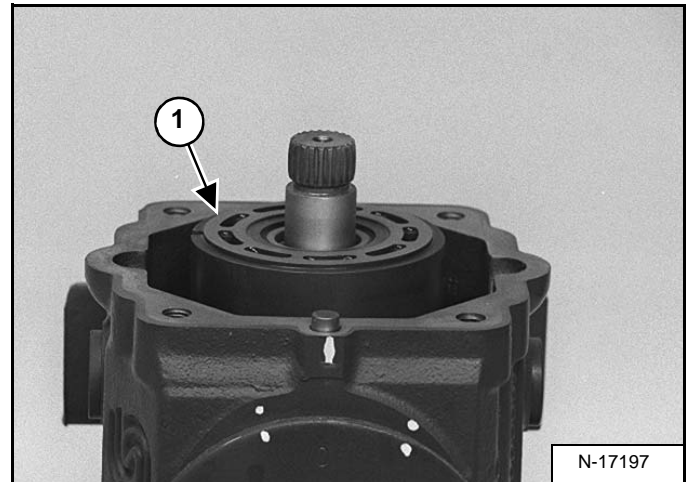
Figure 30-40-13



Check the valve plate locating pin (Item 1) [Figure 30-40-13] for wear and replace if needed.

Check the needle bearing (Item 2) [Figure 30-40-13] for wear and replace if needed.

Figure 30-40-14

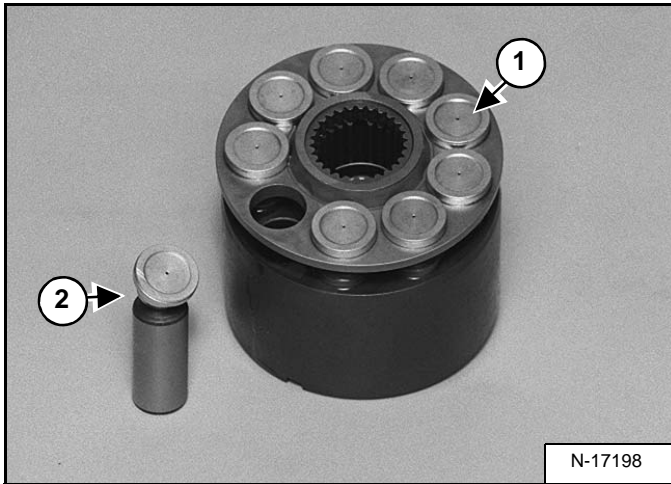


Remove the rotating group (Item 1) [Figure 30-40-14] from the pump.

HYDROSTATIC PUMP (CONT'D)

Disassembly (Cont'd)

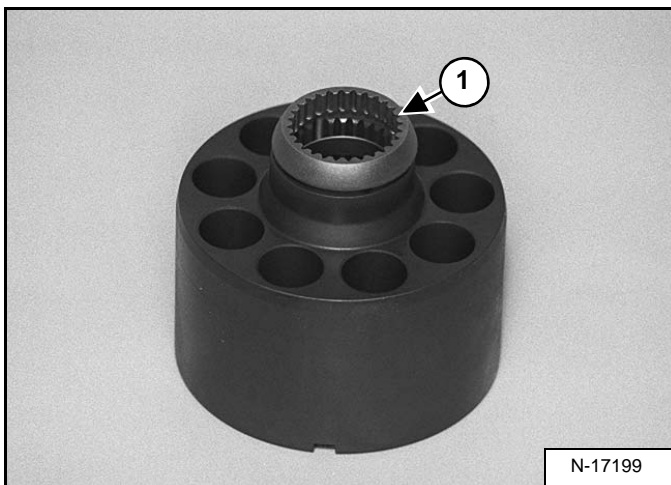
Figure 30-40-15



Remove the slipper guide and pistons (Item 1) [Figure 30-40-15] from the cylinder block.

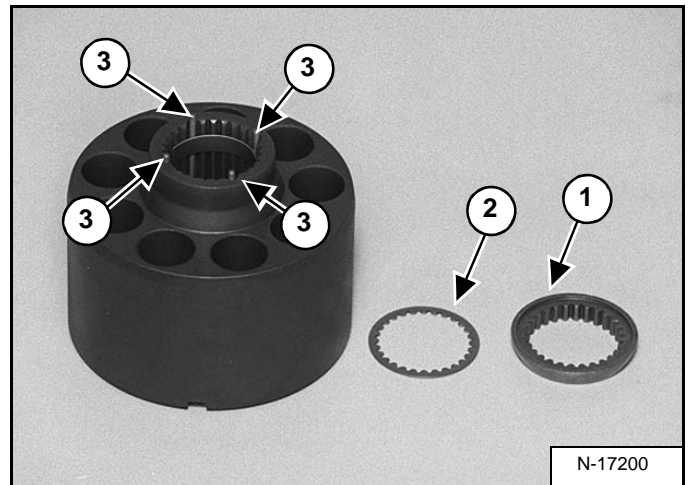
Check all the pistons (Item 2) [Figure 30-40-15] for wear and replace the rotating group as needed.

Figure 30-40-16



Remove the ball guide retainer (Item 1) [Figure 30-40-16] from the cylinder block.

Figure 30-40-17



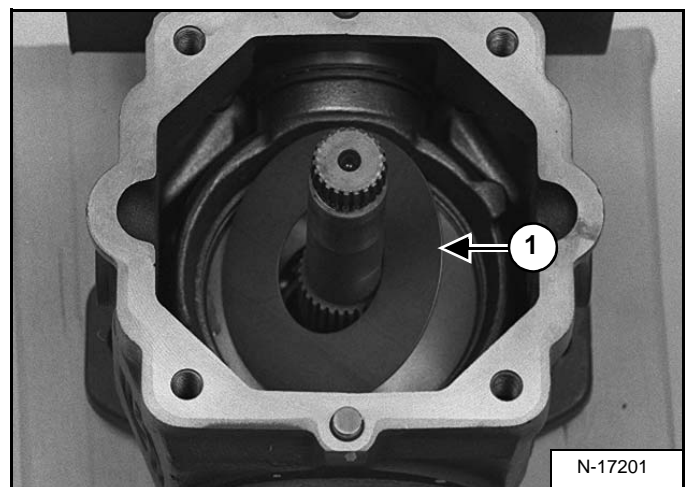
Check the ball guide retainer (Item 1) and washer (Item 2) [Figure 30-40-17] for wear and replace as needed.

Remove the four pins (Item 3) [Figure 30-40-17] from the cylinder block.

Check the cylinder block for wear and replace as needed.

Check pins (Item 3) [Figure 30-40-17] to see if they are all the same length.

Figure 30-40-18

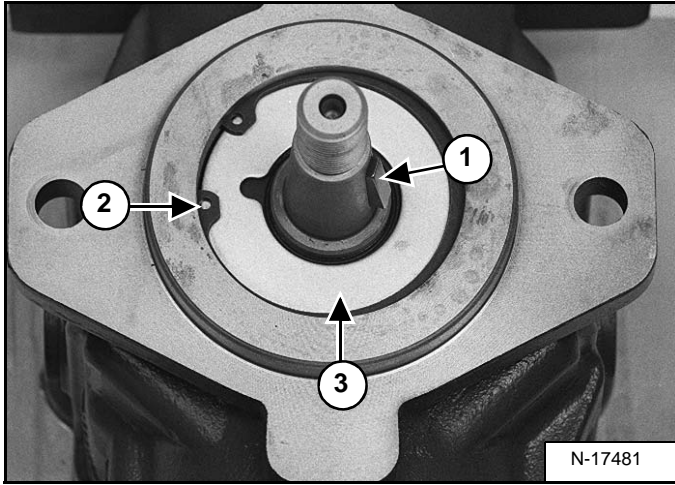


Remove the thrust plate (Item 1) [Figure 30-40-18] from the pump housing.

HYDROSTATIC PUMP (CONT'D)

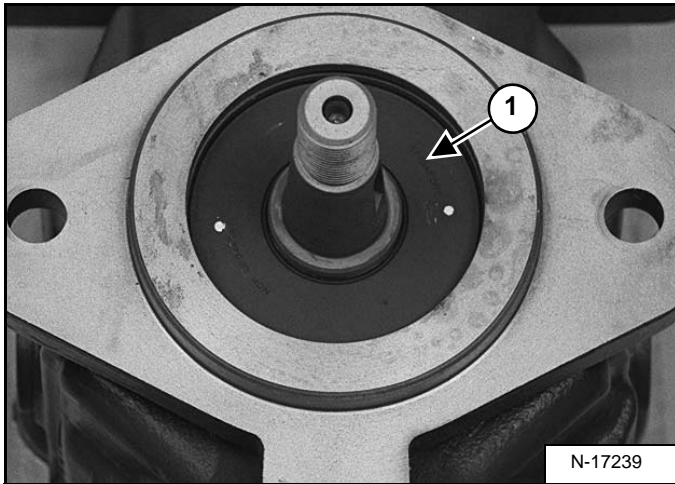
Disassembly (Cont'd)

Figure 30-40-19



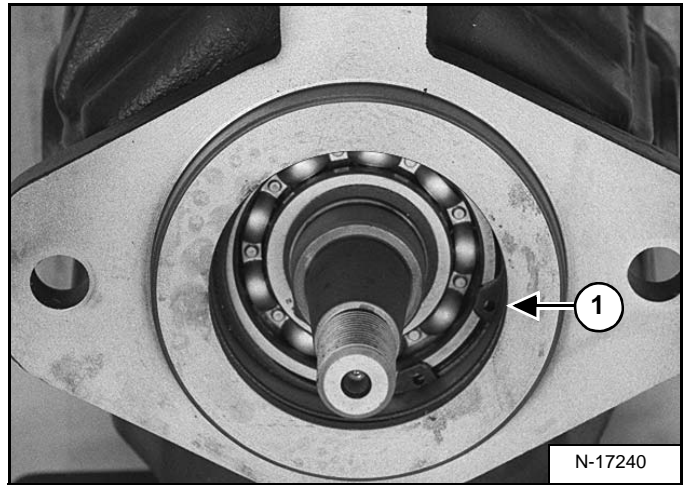
Remove the driveshaft key (Item 1) the snap ring (Item 2) and the support washer (Item 3) [Figure 30-40-19] from the drive shaft end of the pump.

Figure 30-40-20



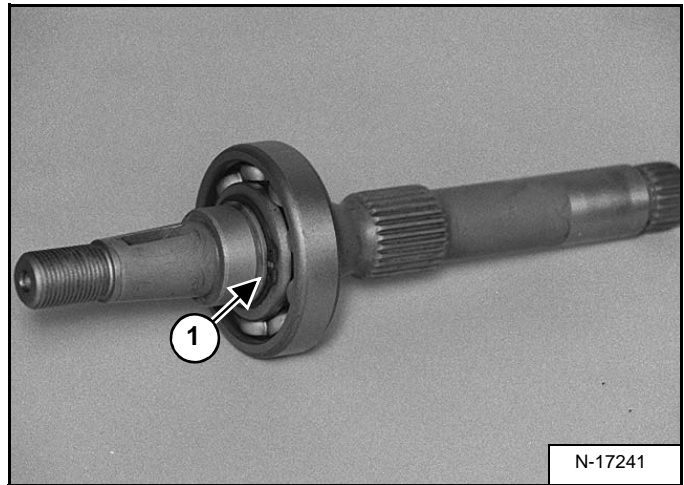
Use a seal puller and remove the seal (Item 1) [Figure 30-40-20] from the pump housing.

Figure 30-40-21



Remove the snap ring (Item 1) [Figure 30-40-21] from the pump housing and remove the driveshaft and bearing from the housing.

Figure 30-40-22



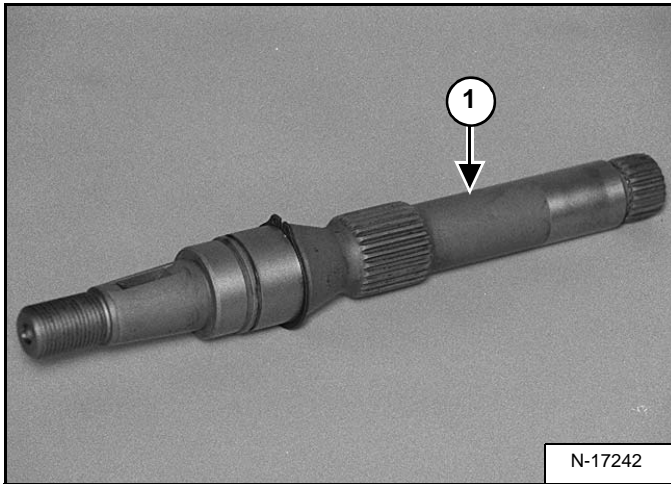
Remove the snap ring (Item 1) [Figure 30-40-22] from the driveshaft and remove the bearing.

Check the bearing for wear and replace if worn.

HYDROSTATIC PUMP (CONT'D)

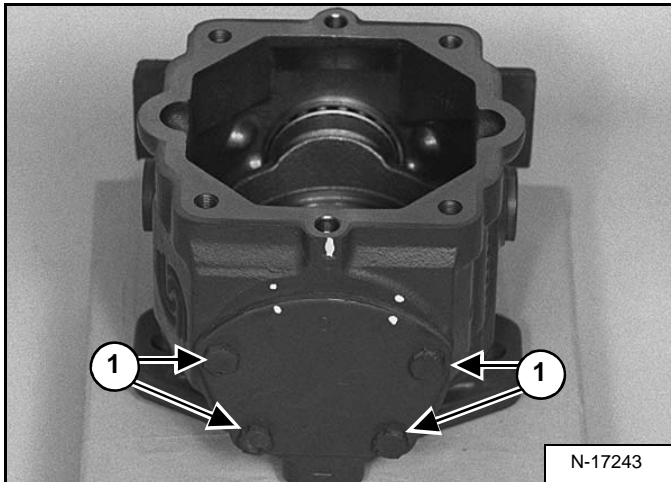
Disassembly (Cont'd)

Figure 30-40-23



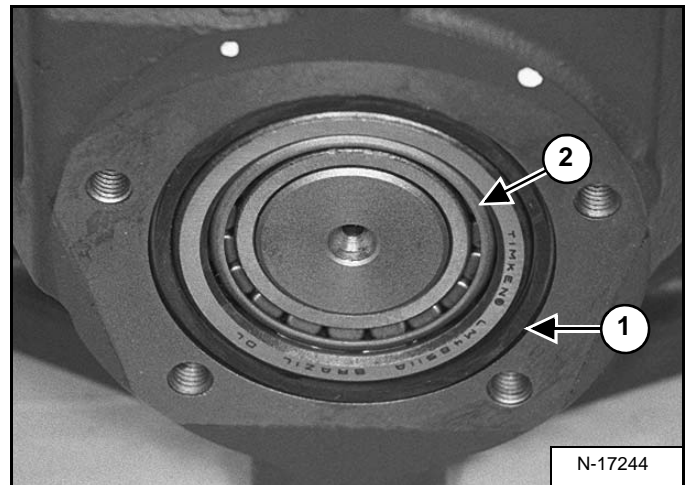
Check the pump shaft (Item 1) [Figure 30-40-23] for wear and replace if needed.

Figure 30-40-24



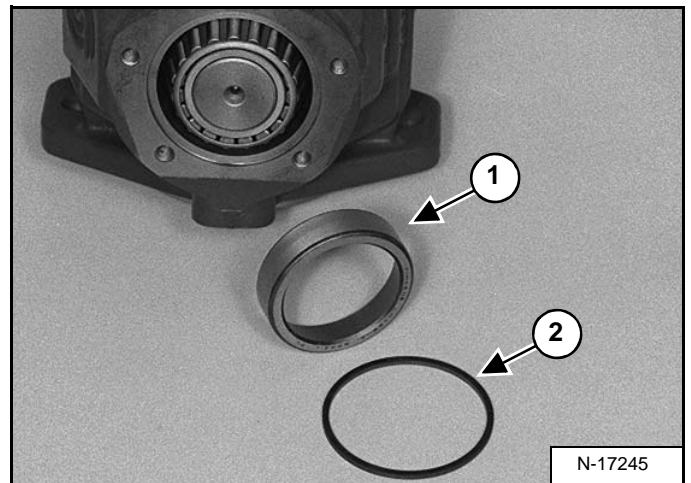
Remove the four mount bolts (Item 1) [Figure 30-40-24] from the lower trunnion cover. Remove the cover.

Figure 30-40-25



Remove the O-ring (Item 1) and bearing race (Item 2) [Figure 30-40-25] from the pump housing.

Figure 30-40-26

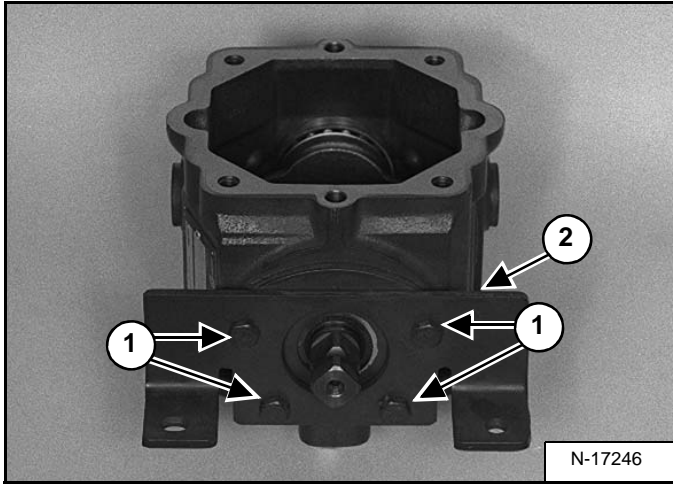


Check the bearing race (Item 1) and O-ring (Item 2) [Figure 30-40-26] for wear and replace as needed.

HYDROSTATIC PUMP (CONT'D)

Disassembly (Cont'd)

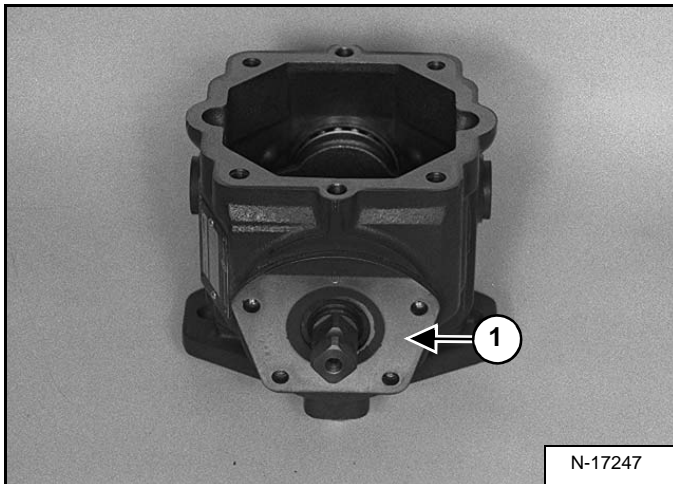
Figure 30-40-27



Inspect the dust seal on the pintle shaft.

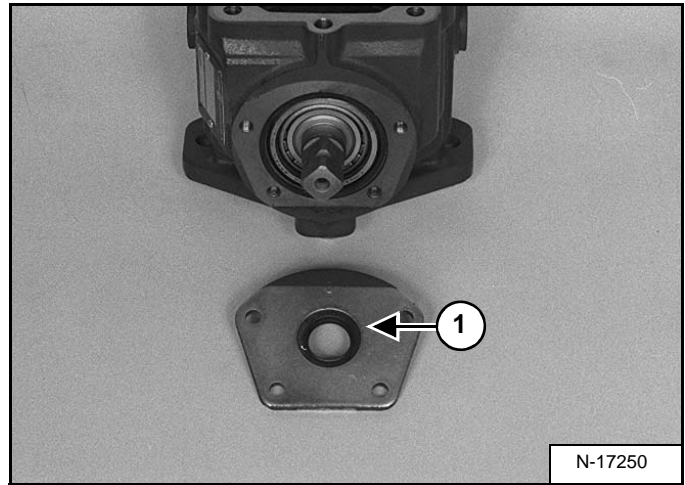
Remove the four mount bolts (Item 1) from the pump housing and remove the linkage bracket (Item 2) [Figure 30-40-27].

Figure 30-40-28



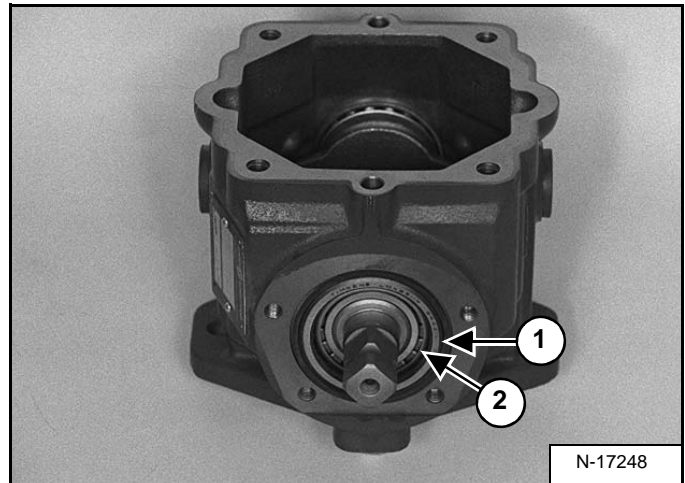
Remove the upper trunnion cover (Item 1) [Figure 30-40-28].

Figure 30-40-29



Inspect the seal (Item 1) [Figure 30-40-29] in the upper trunnion cover and replace if needed.

Figure 30-40-30

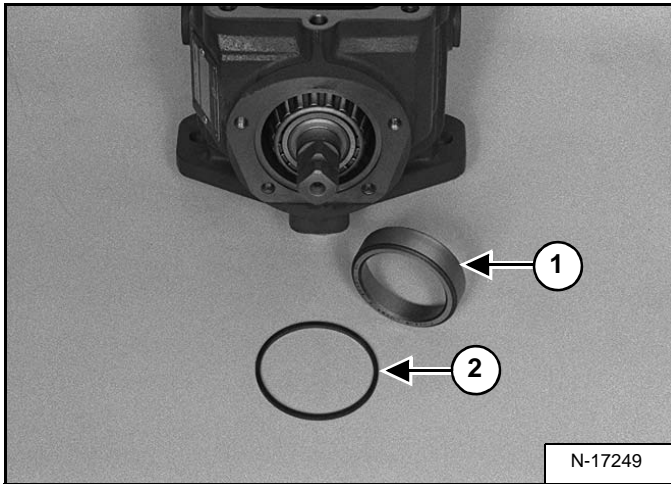


Remove the O-ring (Item 1) and bearing race (Item 2) [Figure 30-40-30] from the pump housing.

HYDROSTATIC PUMP (CONT'D)

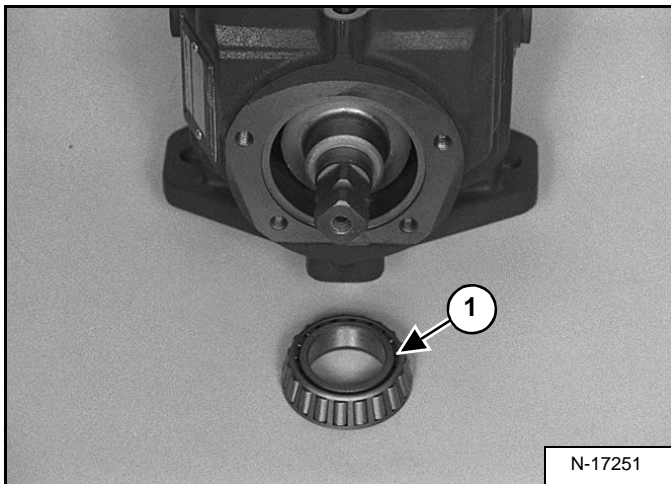
Disassembly (Cont'd)

Figure 30-40-31



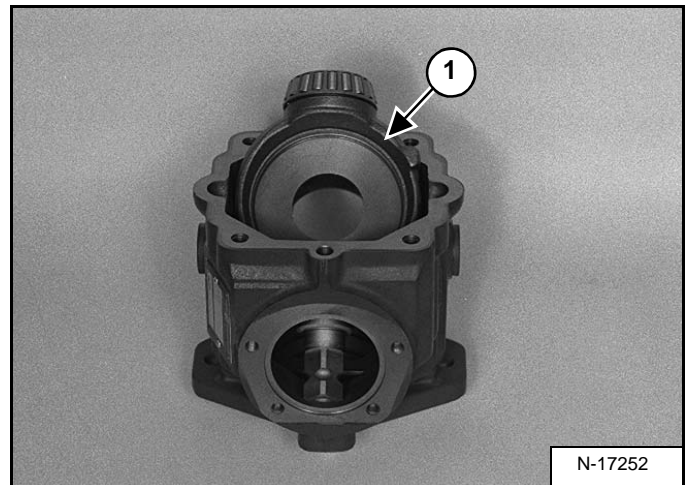
Inspect the bearing race (Item 1) and O-ring (Item 2) [Figure 30-40-31] and replace as needed.

Figure 30-40-32



Slide the swashplate from side to side and remove the tapered roller bearing (Item 1) [Figure 30-40-32] from the swash plate shaft.

Figure 30-40-33

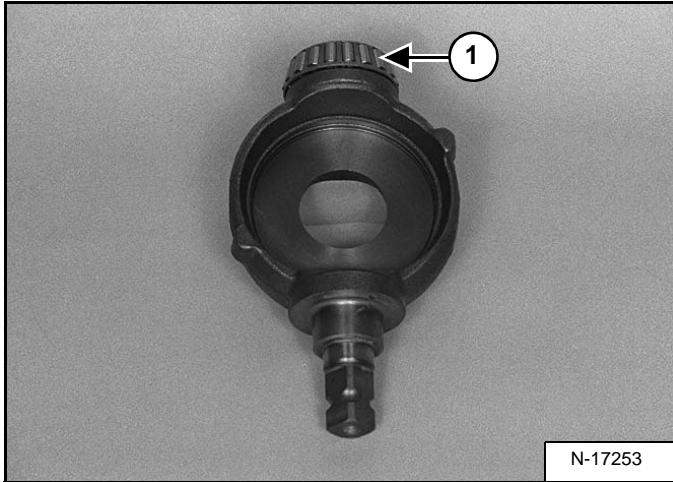


Tilt the swash plate (Item 1) [Figure 30-40-33] and remove the swash plate and lower bearing from the pump housing.

HYDROSTATIC PUMP (CONT'D)

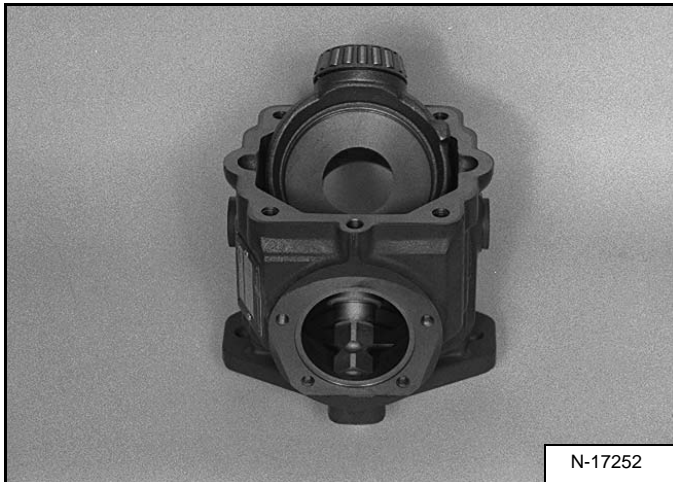
Assembly

Figure 30-40-34



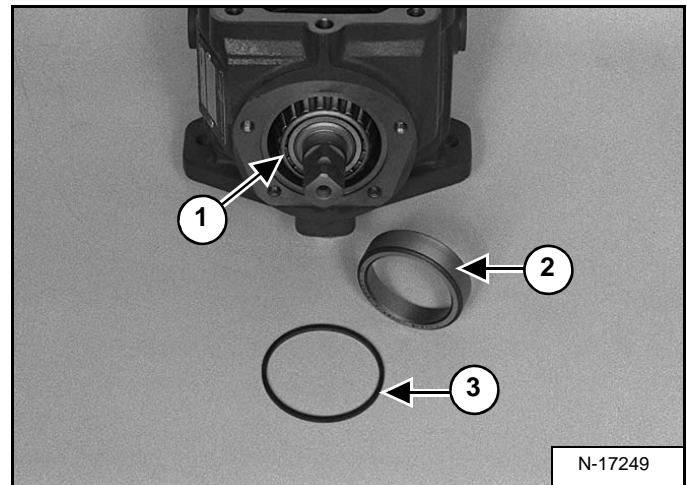
Install the lower bearing (Item 1) [Figure 30-40-34] on the swashplate.

Figure 30-40-35



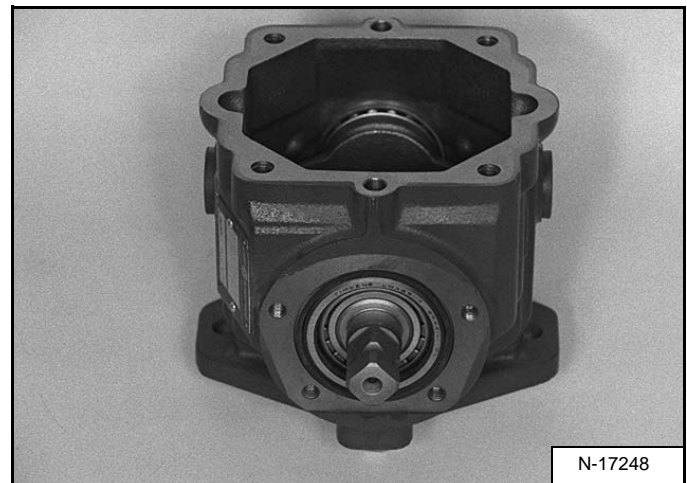
Install the swashplate and bearing into the pump housing [Figure 30-40-35].

Figure 30-40-36



Install the tapered bearing (Item 1) [Figure 30-40-36] on the swashplate shaft.

Figure 30-40-37

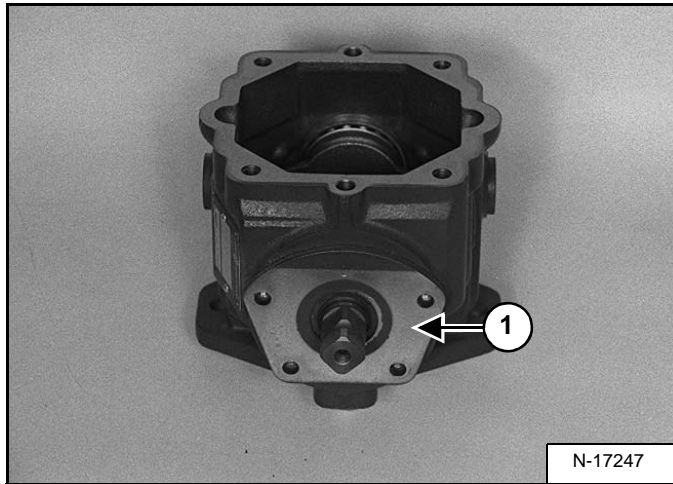


Install the bearing race (Item 2) [Figure 30-40-36] and O-ring (Item 3) [Figure 30-40-36] as shown in [Figure 30-40-37].

HYDROSTATIC PUMP (CONT'D)

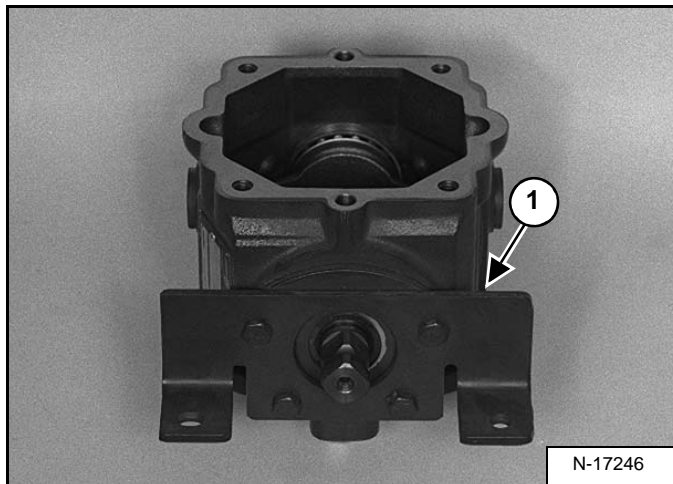
Assembly (Cont'd)

Figure 30-40-38



Install the upper trunnion seal (Item 1) [Figure 30-40-38] and cover.

Figure 30-40-39



Install the linkage bracket (Item 1) [Figure 30-40-39] and the four mounting bolts and tighten to 24 - 30 N•m (18 - 22 ft-lb) torque.

Install the dust seals onto the pintle shafts

Figure 30-40-40

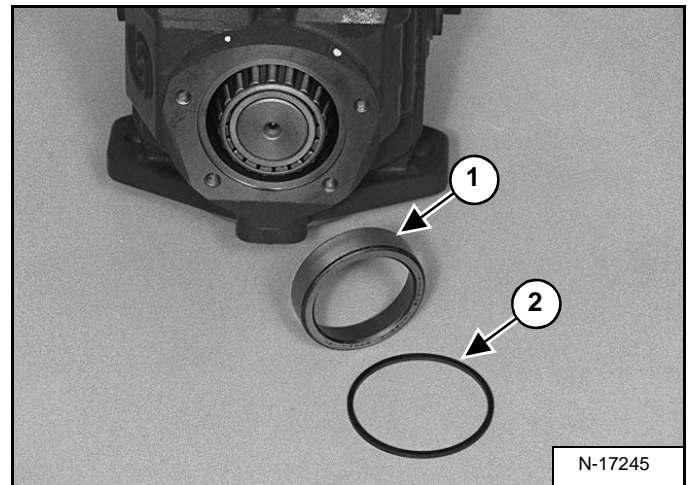
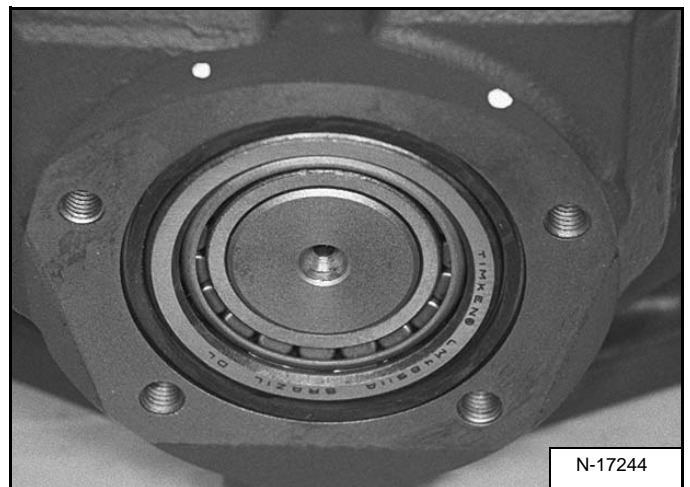


Figure 30-40-41



Install the bearing race (Item 1) [Figure 30-40-40] and O-ring (Item 2) [Figure 30-40-40] at the lower trunnion as shown in [Figure 30-40-41].