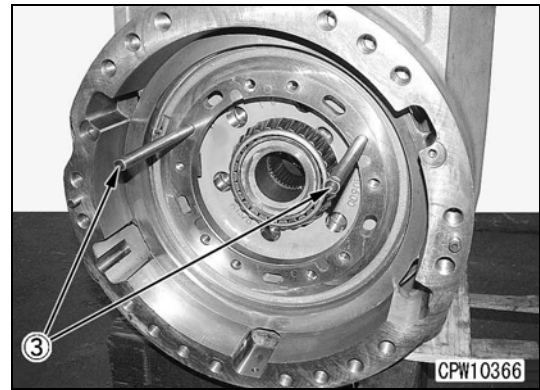C. Attach the guide bolt ③ in the bearing carrier attachment holes on the left and right of the differential case.

D. Attach the removed shim (22) to the bearing carriers (24) on the left and right, then fasten the bearing carrier attachment bolt (24c).
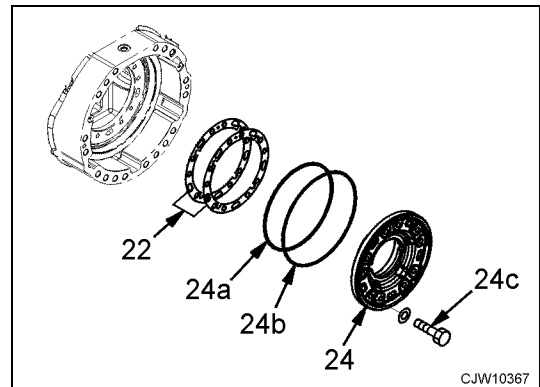
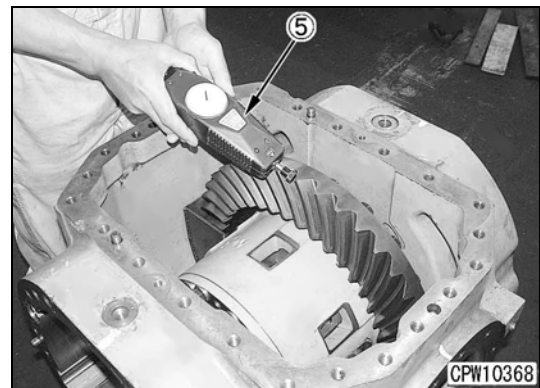★ Fasten the bevel gear while turning it.

Bearing: Axle oil

Mounting bolt: 157 - 196 Nm (16 - 20 kgf m) {116 - 145 lbf ft.}

E. Use the push-pull gauge ⑤ to measure the preload of the bevel gear.

★ Activational rotation power: 13.7 - 37.3 N (1.4 - 3.8 kg.) {3 - 8 lbf}

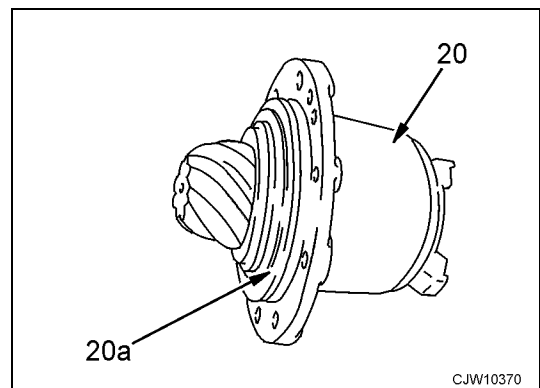★ When the activation rotation power is outside the reference value, adjust the shim thickness.

7. Cage assembly

A. Insert the O-ring (20a) in the groove of the cage assembly (20).

O-ring: Oil (Axle oil)

★ Coat with oil lightly.

B. Attach the guide bolt ⑥ to the differential carrier assembly (7), assemble the removed shim (22), and mount the cage assembly (20).

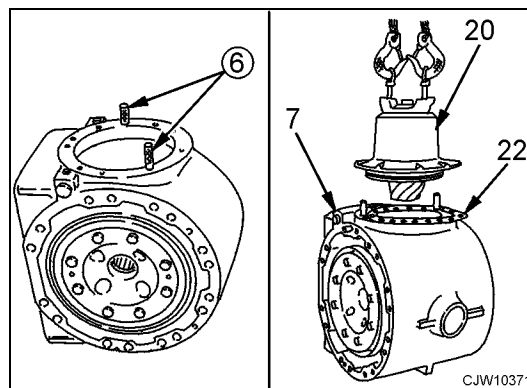★ At assembly, turn the thinner side of the shim to the cage.

🔧 Attachment bolt:
245 - 309 Nm (24.9 - 31.5 kgf m) {181 - 228 lbf ft.}

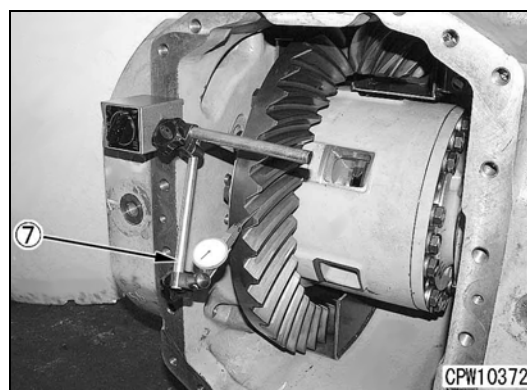C. Securely fasten the coupling attachment bolt temporarily tightened in step 2.

🔧 Attachment bolt: Adhesive (LT-2)

🔧 Attachment bolt: 490 - 608 Nm (50 - 62 kgf m) {361 - 448 lbf ft.}

8. Backlash adjustment

A. Use a dial gauge ⑦ to measure the bevel gear backlash.
★ Backlash: 0.25 ~ 0.33 mm (0.009 ~ 0.012 in.)
★ Measure backlash at three spots around the circumference of the bevel gear. Tolerance is 0.1 mm (0.004 in.).

B. To obtain the backlash in the reference value, move a part of the shim of the bevel gear to the reverse side.
★ At movement of the shim, do not change the total thickness of the left and right.
★ When the backlash is too high, move a part of shim **b** to shim **a**.
★ When the backlash is too low, move a part of shim **a** to shim **b**.