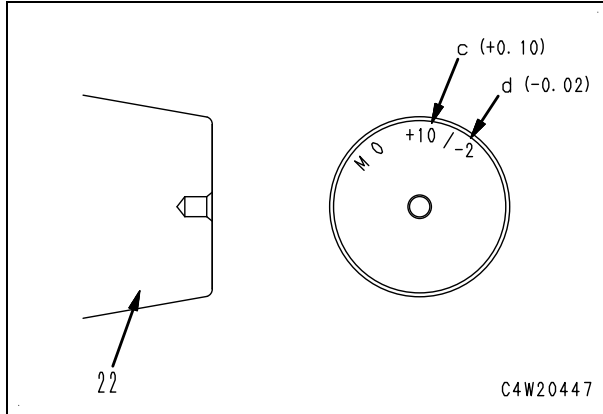2] Calculate reference value "b".
- b = (427 + c) - (121.69 + d) mm
- ★ Dimension "c" and dimension "d" are indicated at the tip of the pinion shaft in icrements of 1/100 mm. (Be careful with the plus and minus signs.)


C4W20447

3] Calculate necessary shim pack thickness "e".
- e = b - a
- ★ Available shims: 0.2, 0.3, and 1.0 mm
- ★ Obtain the necessary thickness by using a minimum number of shims.

14) Fit selected shims (14), and install cage (15) to cage (29) with 22 bolts.
- 🗝 **Mounting bolt:**
  1,520 to 1,910 Nm {155 to 195 kgm}

15) Install bracket (12) to cage (15) with two bolts.
- 🗝 **Mounting bolt:**
  1,520 to 1,910 Nm {155 to 195 kgm}

Rear differential
1) Install the outer races of roller bearings (23) and (24) to cage (15).
- ★ Press fit the outer race until its end face comes in contact with the stepped part of the cage.
2) Install the inner race of roller bearing (24) to pinion (22).
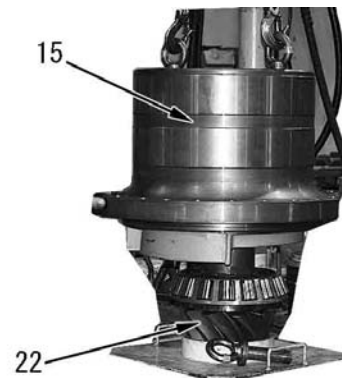- ★ Press fit the inner race until its end face comes in contact with the pinion.

CPW14272
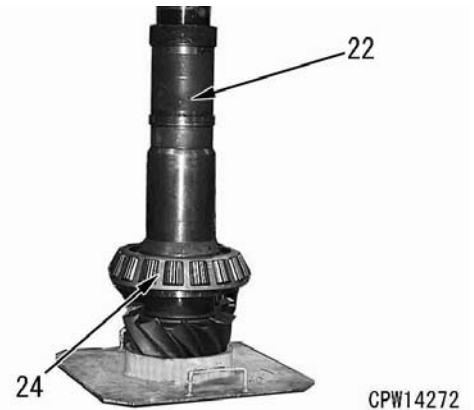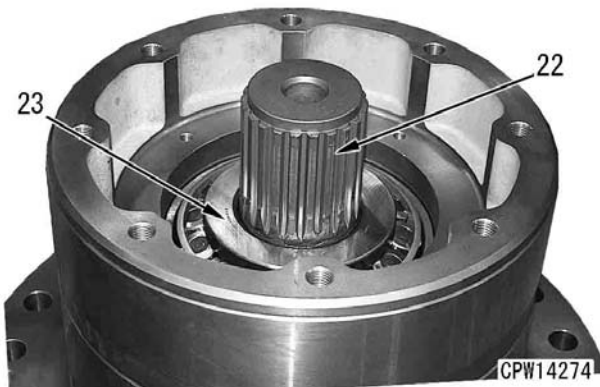
3) Install pinion (22) to cage (15).
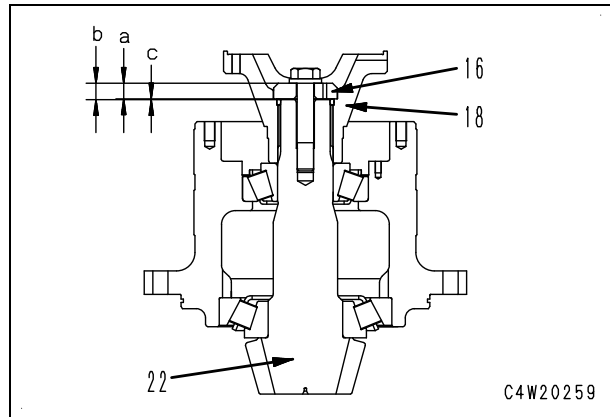- 🖐 **Bearing:**
  Axle oil (AXO80)
- ★ Press fit the bearing while turning the cage, and stop press fitting when a load is applied.
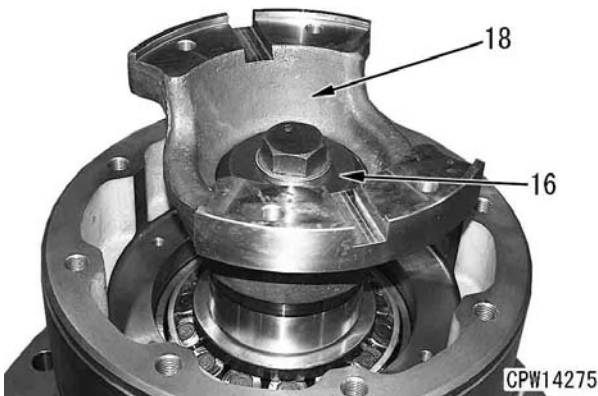- ★ Press fit with the minimum load required to push in the bearing.

CPW14273

4) Install the inner race of roller bearing (23) to pinion (22).

CPW14274

5) Adjust the shim pack thickness of the input bearing according to the following procedure.
   1] Measure thickness "a" of the holder.
   2] Install coupling (18) to pinion (22) and temporary install holder (16) with the bolt.
      ★ Do not fit shims.
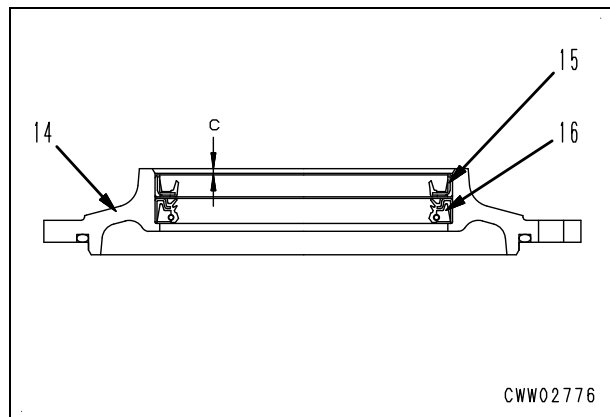

CPW14275

   3] While rotating the bearing to fit in, tighten the bolt gradually until the starting torque of 15.7 Nm {1.6 kgm} is obtained.
   4] Measure dimension "b" from the holder to the pinion end face.
   5] Calculate necessary shim pack thickness "c".
      ● c = (b - a) - (0 – 0.04) mm
      ★ Select shims so that the shim pack thickness is -0 to -0.04 mm from the clearance.
      ★ Available shims: 0.05, 0.2, 0.3, and 1.0 mm
      ★ Obtain the necessary thickness by using a minimum number of shims.
   6] Install the selected shims and tighten with bolts.
      ★ Be sure to install washer (45).
   7] Rotate cage (15) to fit in the bearing, and check that the staring torque is within the range of 15.7 to 52.0 Nm {1.6 to 5.3 kgm}.

★ If it is outside the range, adjust the shims again.

C4W20259

6) Install the O-ring to cage (19).
7) Install oil seal (21) to cage (19).
8) Install dust seal (20) to cage (19).
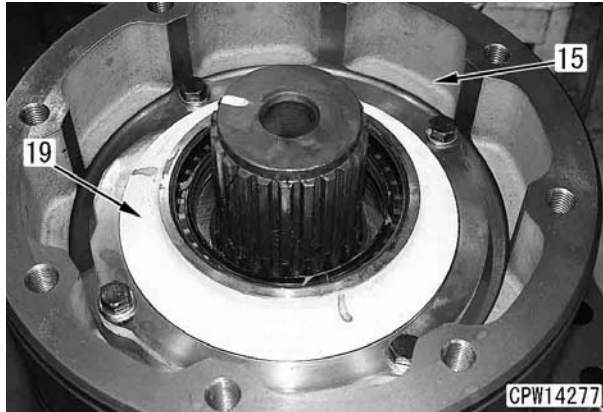   ★ Dust seal press fit dimension "c": 4 mm from cage end face
   ⚞ **Oil seal press fit portion:**
   **Liquid gasket (LG-1 or LG-5)**
   ⚞ **Seal lip:**
   **Grease (G2-LI)**

CWW02776

9) Install cage (19) to cage (15) with four bolts.
    🔧 **Mounting bolt:**
        157 to 196 Nm {16 to 20 kgm}
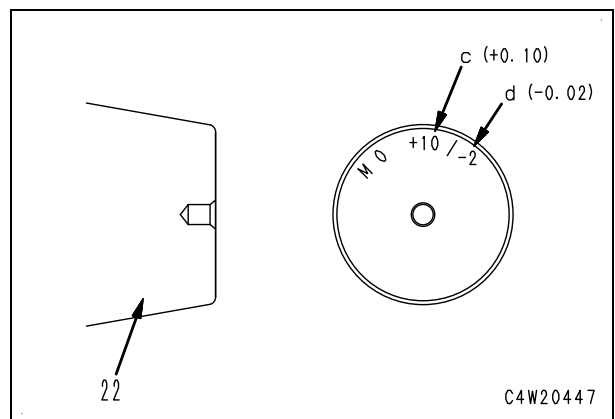

CPW14277

10) Install support (15A).
    🔧 **Mounting bolt:**
        824 to 1,030 Nm {84 to 105 kgm}
11) Install coupling (18) to pinion (22), and install
    the O-ring.
    ✎ **Yoke end face and shaft spline:**
        Lubricant (LM-G)
12) Fit the selected shims, and install holder (16)
    and washer (45) with the bolt.
    ✎ **Mounting bolt:**
        Adhesive (LT-2)
    🔧 **Mounting bolt:**
        2,450 to 3,040 Nm {250 to 310 kgm}

C4W20448
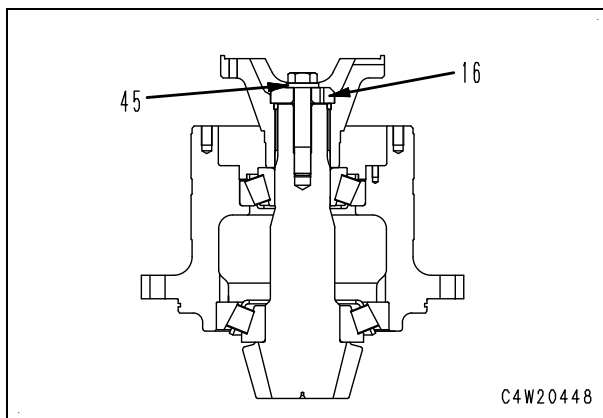
13) Install the O-ring to cage (15).
14) Adjust the shim pack thickness of the differ-
    ential carrier according to the following
    procedure.
    ★ If the bearing, pinion gear, bevel gear,
       etc. is replaced, perform the shim adjust-
       ment procedure.
    1] Measure distance "a" from carrier (29) to
       pinion gear (22).
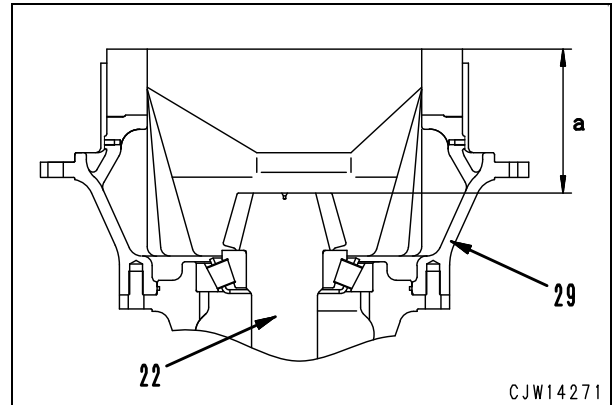
CJW14271

2] Calculate reference value "b".
   ● b =(427 + c) - (121.69 + d) mm
   ★ Dimension "c" and dimension "d" are
      indicated at the tip of the pinion shaft
      in increments of 1/100 mm.
      (Be careful with the plus and minus
      signs.)

C4W20447

3] Calculate necessary shim pack thickness
   "e".
   ● e = b - a
   ★ Available shims: 0.2, 0.3, and 1.0 mm
   ★ Obtain the necessary thickness by us-
      ing a minimum number of shims.