

### 3. Draining lubricating oil.

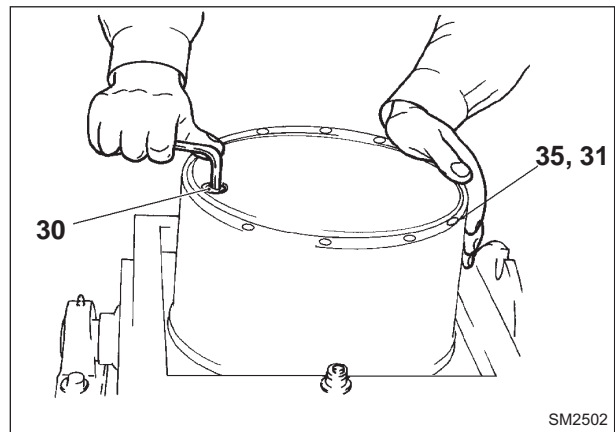
**NOTE:** if you want to disassemble only the rear flange, go to 6. 1).

- 1) Turn over the travel motor.




**CAUTION**

Loosen plug (30) slowly to avoid spurt of lubricating oil.



- 2) Loosen and remove two socket plugs (30) to release inner pressure.

 : 10 mm


**NOTE:** when draining out the lubricating oil, place container under the work bench.

- 3) Draw out the lube oil by reversely turning the travel motor slowly.
- 4) Remove O-rings (31) from removed plugs.

**NOTE:** do not reuse removed O-ring (31).

### 4. Removing cover.

- 1) Turn over the travel motor.
- 2) Remove ten socket bolts (35).

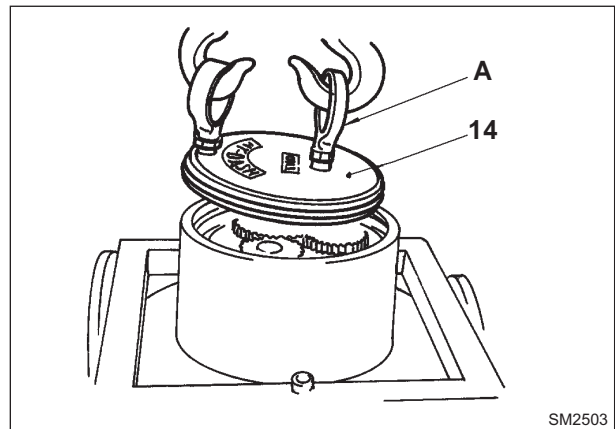
 : 10 mm

- 3) Because sealant is applied between cover (14) and hub (1), hit upward the corner of cover with a hammer using soft metal to protect the cover.



**CAUTION**

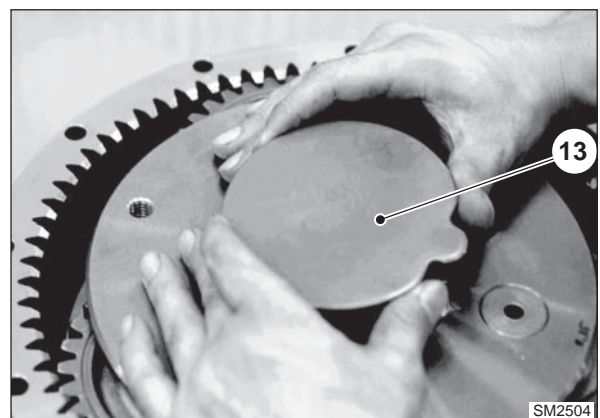
The cover (14) may jump and remove suddenly by hitting. Be careful not to drop the cover to avoid injury.



- 4) Place a hook and a wire sling to eye bolts (A), lift it up and remove cover (14).

### 5. Removing thrust plate.

- 1) Removing thrust plate (1)



6. Removing 1st stage reduction gear.

- 1) Remove sun gear 1 (4) by hand.

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**IMPORTANT:** be careful not to drop sun gear 1 (4) it could be slippery by lubricant.

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- 2) Fasten 3 eyebolts to the tapped holes of carrier 1 (3). And attach wire slings and hook in the eye bolts. Lift the carrier (3) assembly with hoist.

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**NOTE:** when carrier assembly (3) is lifted with hoist, the edge of planetary gear 1 (5) may damage the internal teeth of hub (1). Align center line of hub (1) with that of carrier 1 assembly, lift carrier 1 slowly and straightly.

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7. Removing coupling.

- 1) Remove coupling (15) from shaft (102).

8. 2nd stage reduction gear removal.

- 1) Fasten three eyebolts to the tapped holes of carrier 2 (7). Place a wire sling and hook in the eyebolts, lift carrier 2 assembly by crane.

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**NOTE:** when carrier 2 assy is lifted by crane, the edge of planetary gear 2 (9) could damage the internal teeth of hub (1). Lift up it slowly, and carefully.

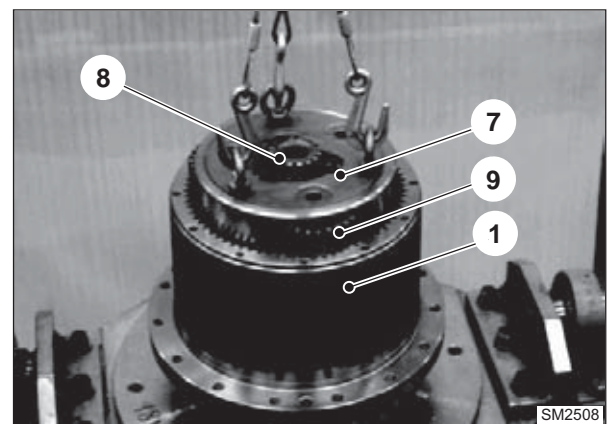
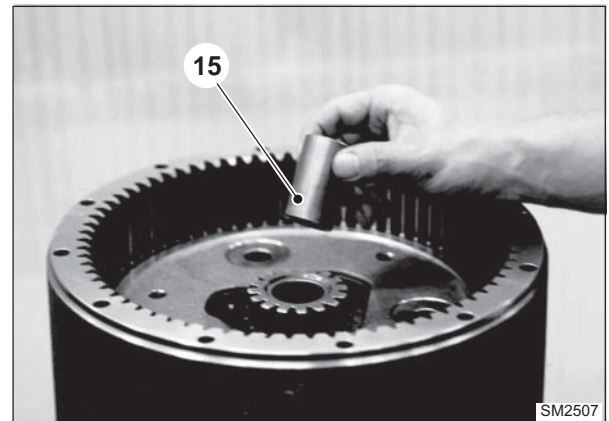
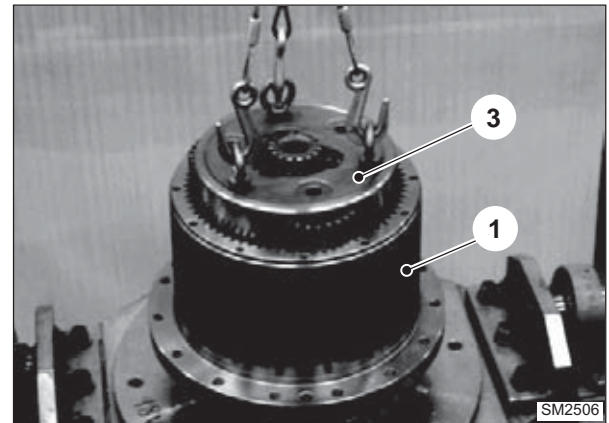
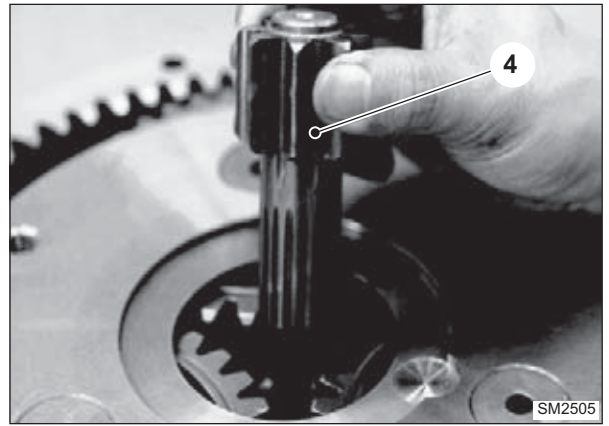
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- 2) Remove sun gear 2 (8) by hand.

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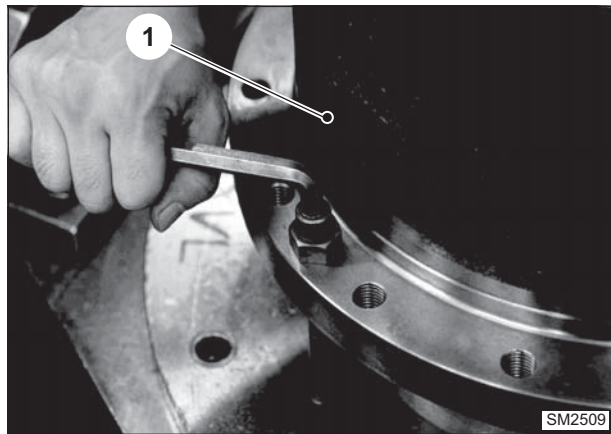
**NOTE:** be careful not to drop sun gear 2 (8). It could be slippery by lubricant.

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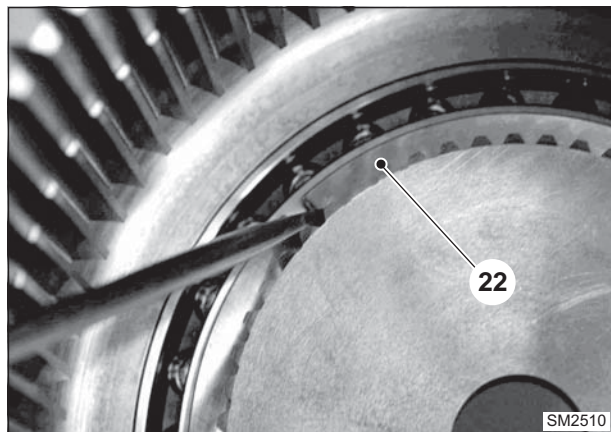


## 9. Removing lock washer.

- 1) Fix hub (1) and workbench with using three holes ( $\varnothing 14$ ) of hub (1).

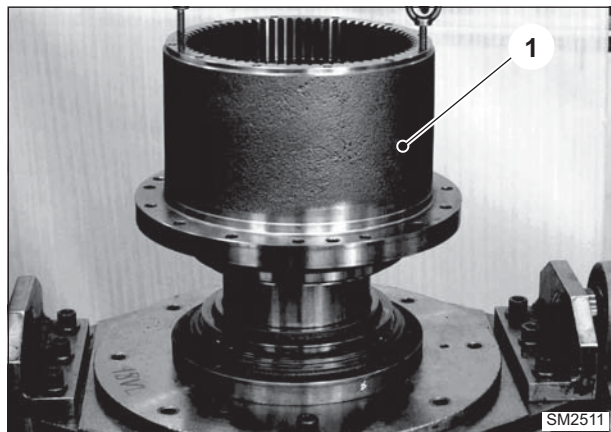


- 2) Put a flathead screwdriver into the clearance between two lock washers (22), and widen the clearance. Place the tip of the screwdriver to the one end of the lock washers (22), tap it by hammer, and remove two lock washers (22).



## 10. Removing hub.

- 1) Remove the hexagon socket bolts, which fixed hub (1) and workbench.
- 2) Fasten two eyebolts on the tapped holes of spindle (101). Place a wire sling and hook in the eyebolts. Lift hub (1) by crane.



**! WARNING**

**Lift up hub (1) slowly and carefully. If hub (1) is inclined against spindle (2), for the interference, wire sling or eyebolts could be destroyed and hit the worker. If hub (1) does not come out smoothly, do not pull forcefully. Instead, use other tools such as press machine.**

## 11. Removing floating seal.

- 1) Grasp inner side of floating seal (29) and lift it up by hand.

**! CAUTION**

**Use work gloves to prevent from cutting hands at the edge of floating seal (29). If lifting up by hand is difficult by mudpack or such reason, use flat head screwdriver as a lever.**

