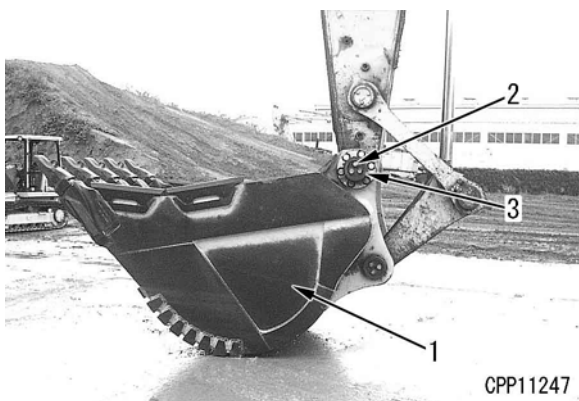


REMOVAL AND INSTALLATION OF BUCKET ASSEMBLY

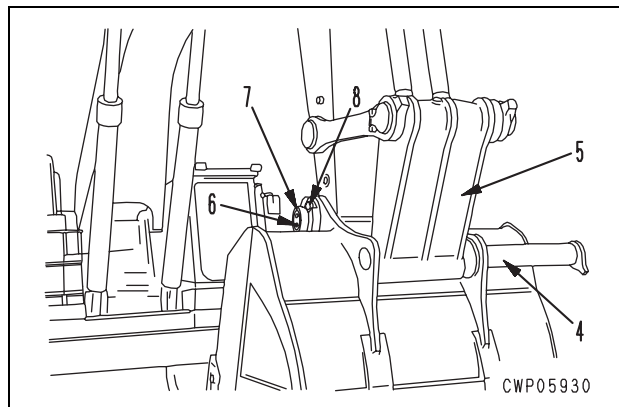
BACKHOE SPECIFICATION REMOVAL

⚠ Set the back face of the bucket facing down, lower the work equipment completely to the ground, and set the lock lever to the LOCK position.

1. Remove 3 link pin lock bolts (2) of bucket (1), then remove stopper (3).

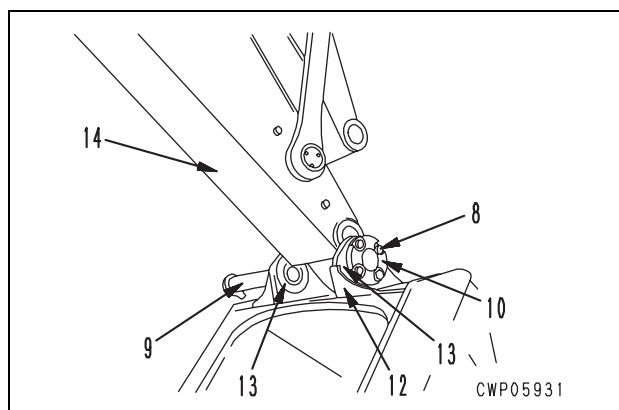


2. Remove link pin (4). ※ 1
 - ★ Use forcing screws when removing.
 - ★ If it is difficult to remove the pin, raise the bucket and move it backward and forward to find a position where it is easier to remove the pin.
 - ★ If the bucket is not in contact with the ground, set a block under the back face of the bucket.
 - ★ After removing the pin, retract the bucket cylinder and lift up link (5).
3. Remove 3 lock bolts (6) of connecting pin between arm and bucket, then remove stopper (7).
4. Loosen 4 cover lock bolts (8)



5. Remove connecting pin (9) between arm and bucket. ※ 2
 - ★ Use forcing screws when removing.
 - ★ If it is difficult to remove the pin, move the arm up and down a small amount to find a position where it is easier to remove the pin.
6. Remove 4 cover lock bolts (8) and cover (10) from bucket (1), then remove shim (11), bushing (12), and O-ring (13).
 - ★ There are shims installed, so check the number and thickness, and keep in a safe place.
7. Start engine, then raise work equipment to disconnect arm (14) from bucket.




Bucket assembly: **4,600 kg**






INSTALLATION

- Carry out installation in the reverse order to removal.

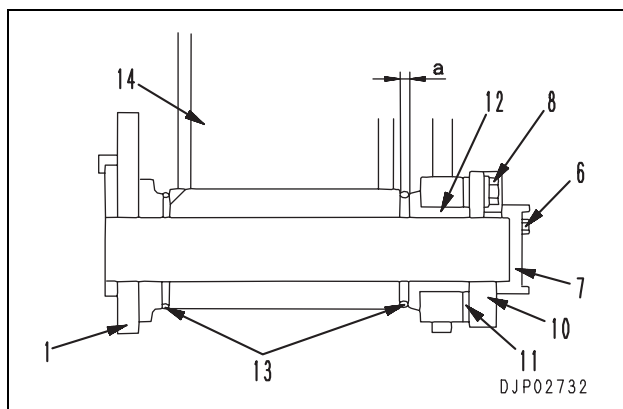
※ 1

-  Inside surface of bushing when assembling pin:
Anti-friction compound (LM-P)
-  Grease after assembling pin:
Grease (LM-G)
-  When aligning the position of the pin hole, never insert your fingers in the pin hole.

※ 2

-  Inside surface of bushing when assembling pin:
Anti-friction compound (LM-P)
-  Grease after assembling pin:
Grease (LM-G)
-  When aligning the position of the pin hole, never insert your fingers in the pin hole.

- ★ Insert the O-ring at the end face of the bucket boss securely.
- ★ Adjustment of bucket clearance
 - 1) Measure clearance **a** between arm (14) and bushing (12).
 - ★ Put the edge of the arm boss and the edge of the bucket boss in contact, and measure clearance **a**.
 - 2) After removing the shims (11), take out shims equal to clearance **a**, and fit the remaining shims.
 - ★ Shim thickness: 0.5, 1.0 mm
 - ★ If clearance **a** is smaller than the thickness of one shim, do not carry out any adjustment.
 - 3) Tighten bolt (8) and bolt (6).

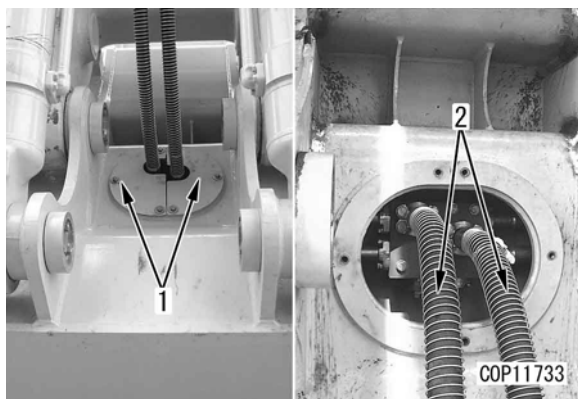


REMOVAL AND INSTALLATION OF BUCKET ASSEMBLY

LOADING SHOVEL REMOVAL

- ⚠ Set the bottom of the bucket horizontal, lower the work equipment completely to the ground and stop the engine. Operate the control levers several times to release the remaining pressure in the hydraulic piping.
- ⚠ Loosen the oil filler cap slowly to release the pressure inside the hydraulic tank.
- ★ Plug the hose to stop oil flow-out.

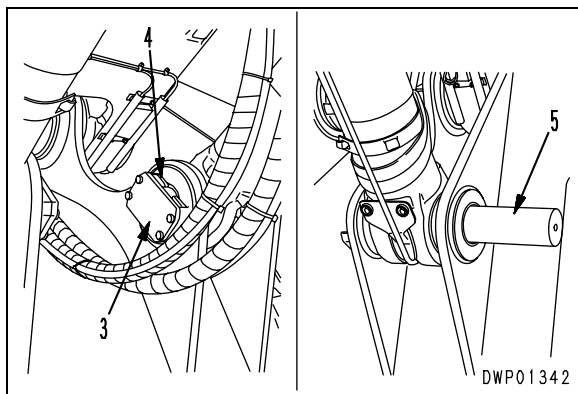
1. Disconnect covers (1).
2. Disconnect bottom dump cylinder hoses (2)



3. Sling bucket cylinder assembly, and remove plate (3), then pull out bottom pin (4).
 - ★ Remove the pin on the other side in the same way.

※ 1

 Pin: **50 kg**

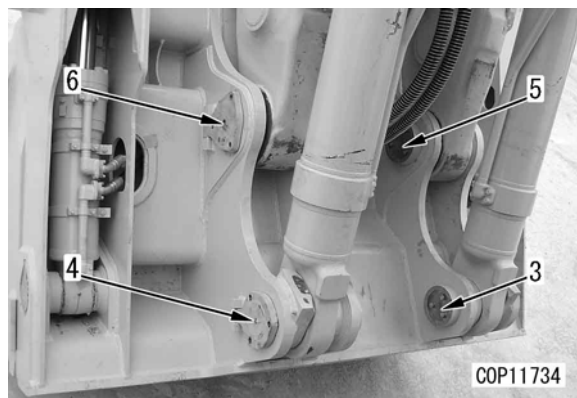


4. Sling bucket assembly, and remove plate (5), then pull out arm-bucket connecting pin (6).


※ 2

- ★ Remove the pin on the other side in the same way.

 Pin: **67.9 kg**



5. Lift off bucket assembly (7).

 Bucket assembly: **9,730 kg**

