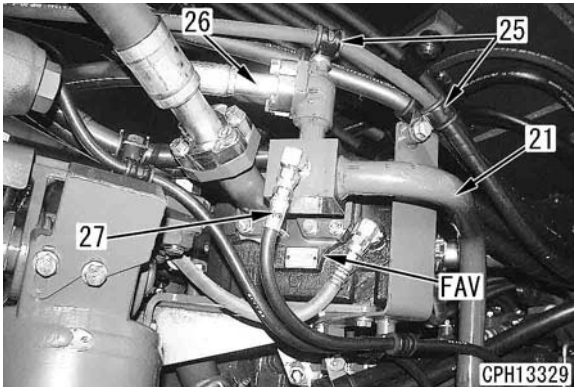



7. Disconnect following from flow amp valve (FAV).
- (25): Clamp
  - (26): Discharging hose from hoist pump
  - (27): Hose for centralized pressure check
  - (21): Tube between flow amp valve (FAV) and hoist valve




8. Remove the mounting bolts for hoist valve assembly (28) and then remove the assembly.

 Hoist valve assembly: **35 kg**



## Installation

- Installation is carried out in the reverse order to removal.
- **Refilling with oil (hydraulic tank)**  
Refill with oil through the oil filler port up to the specified level, then start the engine to have the oil circulate in the piping, and check the oil level again.

 Hydraulic tank: **120ℓ**

## Disassembly and assembly of hydraulic cylinder assembly

### Special tools

Symbol	Part No.	Part name	Necessity	Q'ty	New/Remodel	Sketch
1	790-502-1003	Cylinder repair stand	●	1		
	790-101-1102	Pump	●	1		
2	790-102-4300	Wrench assembly	■	1		
	790-102-4310	Pin	■	2		
3	790-720-1000	Expander	●	1		
4	796-720-1670	Rubber band (for hoist)	●	1		
	07281-01279	Clamp	●	1		
	796-720-1660	Rubber band (for steering)	●	1		
	07281-01159	Clamp	●	1		
U	790-201-1702	Push tool kit	■	1		
	790-201-1791	• Push tool (for steering)		1		
	790-201-1821	• Push tool (for hoist)		1		
	790-101-5021	• Grip		1		
	01010-50816	• Bolt		1		
6	790-201-1500	Push tool kit	●	1		
	790-201-1610	• Push tool (for steering)		1		
	790-201-1630	• Push tool (for hoist)		1		
	790-101-5021	• Grip		1		
	01010-50816	• Bolt		1		
7	790-102-3802	Wrench assembly	■	1		


### Disassembly

- ★ Be careful not to give damage to the rod packing, dust seal, piston ring, wear ring, etc. during the work.

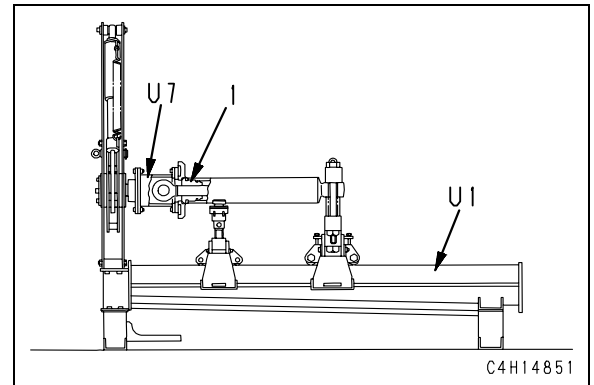
#### 1. Piston rod assembly

- 1) Set cylinder assembly in tool **U1**.

 Steering cylinder assembly: **55 kg**


 Hoist cylinder assembly: **190 kg**


- 2) Using tool **U7**, remove cylinder head assembly (1).



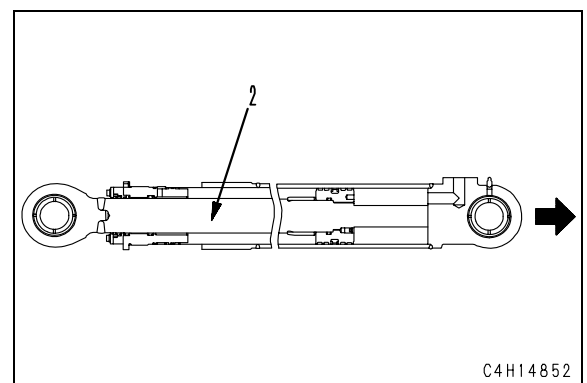
- 3) Pull out cylinder head and piston rod assembly (2) from cylinder and remove.

- ★ When the piston rod assembly is pulled out from the cylinder, oil will come out, so catch it in a container.

 Cylinder head and piston rod assembly (Steering cylinder): **30 kg**

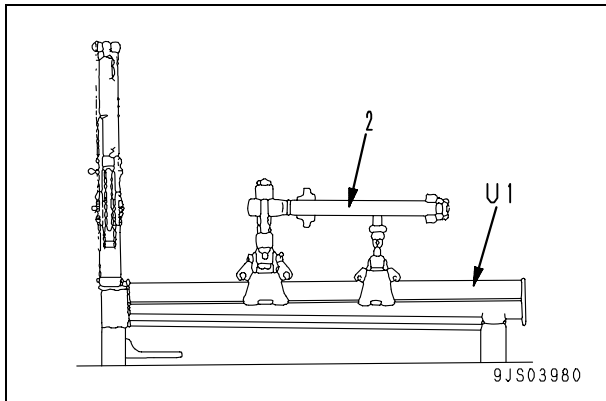
 Cylinder head and piston rod assembly (Hoist cylinder): **110 kg**

- 4) Remove cylinder from tool **U1**.



5) Disassemble the piston rod assembly as follows.

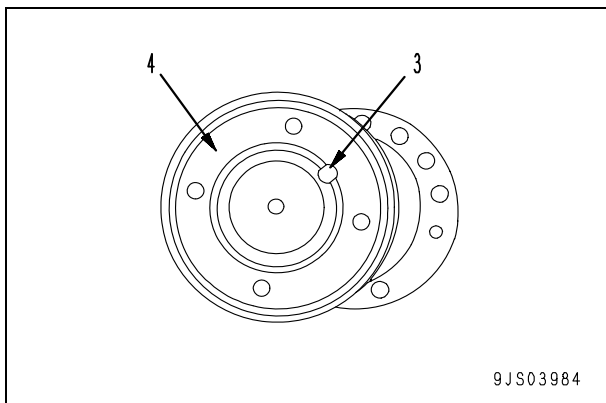
1] Set piston rod assembly (2) in tool U1.



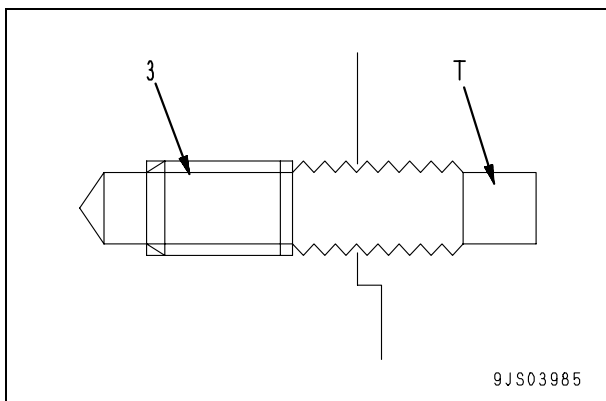
2] Remove stopper screw (3) of piston assembly (4).

★ Common to the steering and hoist cylinder.

Screw size: **M12 x Pitch 1.75**

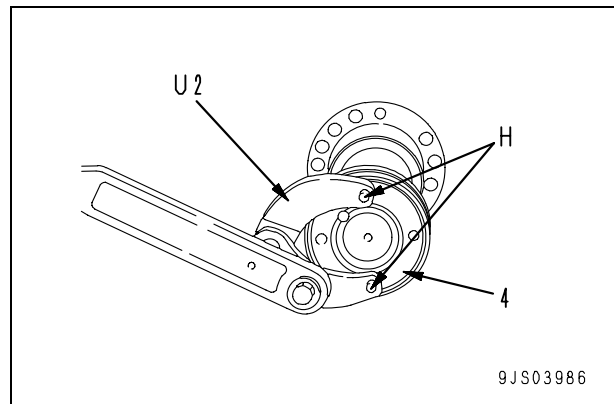


★ If the caulking of screw (3) is too strong and it cannot be removed, tighten the screw fully, then fit tap (T) to the thread and remove the screw.



3] Using tool U2, remove piston assembly (4).

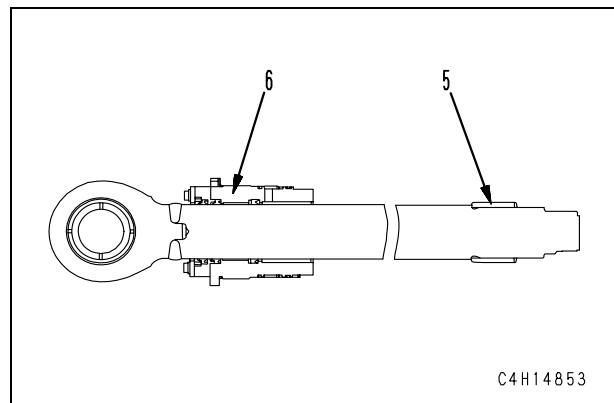
★ When not using tool U2, use the drill holes (H)( $\varnothing$  10: 2 places) and loosen piston assembly.



4] Remove plunger (5)

★ Hoist cylinder only.

5] Remove head assembly (6).



6] Remove cap (7), and pull 9 balls (8), then remove plunger (9).

★ Steering cylinder only.

