

# SHOP MANUAL

# KOMATSU WA1200-3

MACHINE MODEL

SERIAL NO.

**WA1200-3**

**50001 and up**

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require.  
Materials and specifications are subject to change without notice.
- WA1200-3 mount the Cummins QSK60 engine.


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## Safety notice

### Important safety notice

Proper service and repair are extremely important for safe machine operation. The service and repair techniques recommended by Komatsu and described in this manual are both effective and safe. Some of these techniques require the use of tools specially designed by Komatsu for the specific purpose.

To prevent injury to workers, the symbol  is used to mark safety precautions in this manual. The cautions accompanying these symbols should always be followed carefully. If any dangerous situation arises or may possibly arise, first consider safety, and take the necessary actions to deal with the situation.

### 1. General precautions

 **Mistakes in operation are extremely dangerous. Read the Operation and Maintenance Manual carefully before operating the machine.**

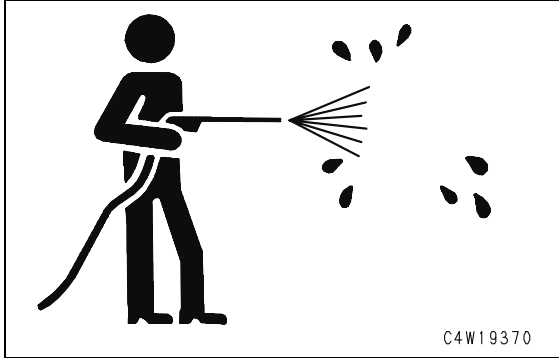
- 1) Before carrying out any greasing or repairs, read all the safety plates stuck to the machine. For the locations of the safety plates and detailed explanation of precautions, see the Operation and Maintenance Manual.
- 2) Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt, water, or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.
- 3) When carrying out any operation, always wear safety shoes, helmet and protective goggles. Do not wear loose work clothes, or clothes with buttons missing.
  - Always wear safety glasses when hitting parts with a hammer.
  - Always wear safety glasses when grinding parts with a grinder, etc.
- 4) When carrying out any operation with 2 or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR warning signs in the operator's compartment.
- 5) Only qualified workers must carry out work and operation which require license or qualification.
- 6) Keep all tools in good condition, learn the correct way to use them, and use the proper ones of them. Before starting work, thoroughly check the tools, machine, fork-lift, service car, etc.
- 7) If welding repairs are needed, always have a trained and experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, shielding goggles, cap and other clothes suited for welding work.
- 8) Before starting work, warm up your body thoroughly to start work under good condition.

### Safety points

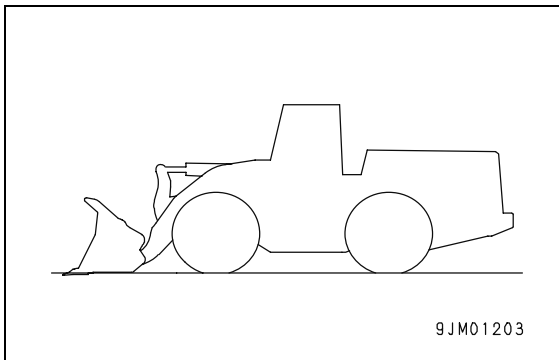
1	Good arrangement
2	Correct work clothes
3	Following work standard
4	Making and checking signs
5	Prohibition of operation and handling by unlicensed workers
6	Safety check before starting work
7	Wearing protective goggles (for cleaning or grinding work)
8	Wearing shielding goggles and protectors (for welding work)
9	Good physical condition and preparation
10	Precautions against work which you are not used to or you are used to too much

2. Preparatory work

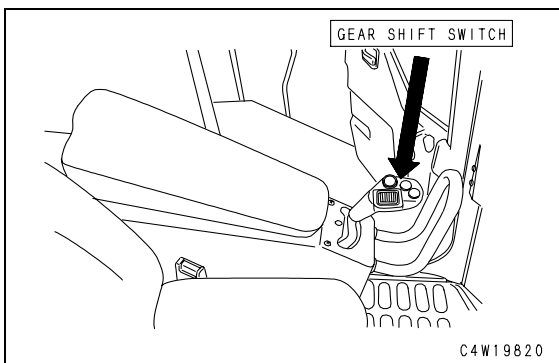
- 1) Repair and maintenance works must be performed on a hard and level surface.
  - i. Wash the machine.
    - ★ The area of the parts to be removed must be washed carefully.



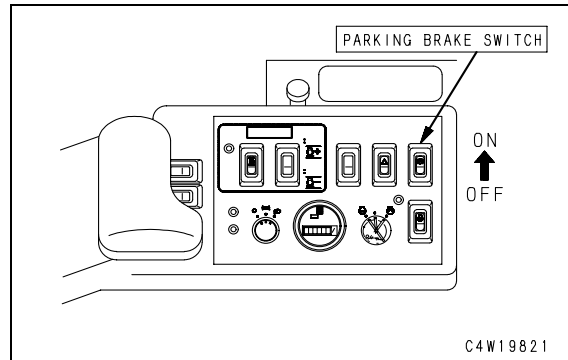
- ii. Bring the machine into the shop and lower the work equipment to the ground.
  - ★ When performing the work outdoors, park the machine on hard and level ground, then lower the work equipment to the ground.



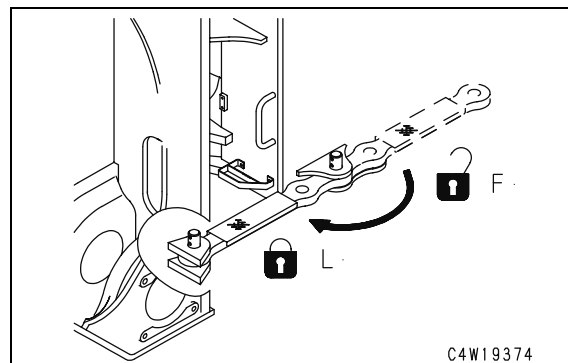
- iii. Set the gear shift switch to the N position.



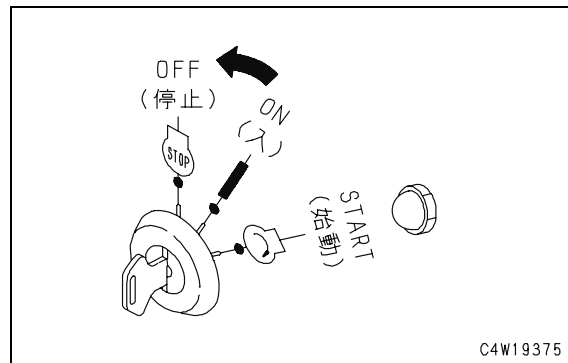
- iv. Turn the parking brake switch ON.



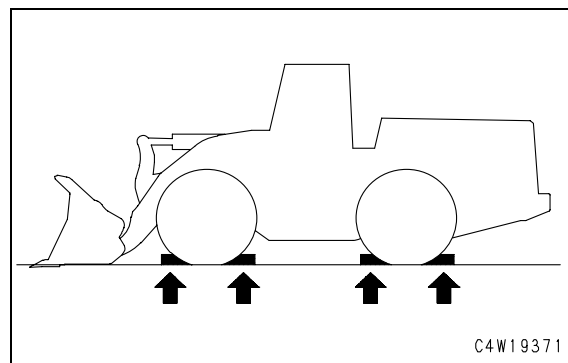
- v. Set the frame lock bar to the LOCK position.



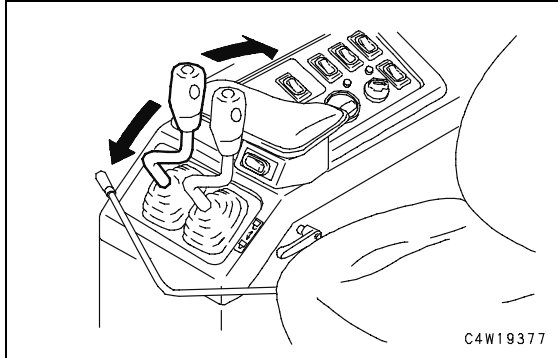
- vi. Stop the engine.



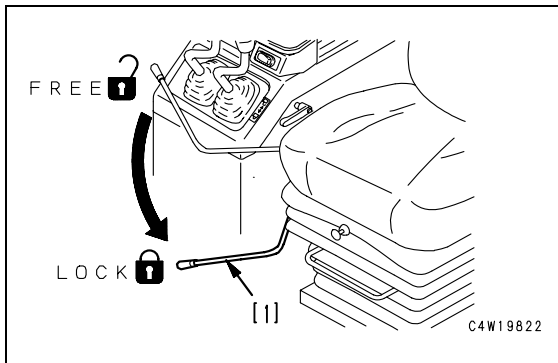
- vii. Chock the wheels.



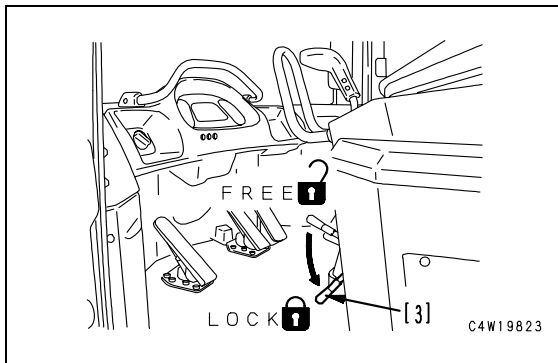
- 2) Release the remaining pressure in the hydraulic circuit.
  - i. Move the lift arm and bucket levers forward and backward slowly two to three times in full travels.
  - ★ When no residual pressure exists, the hydraulic sound is not heard.



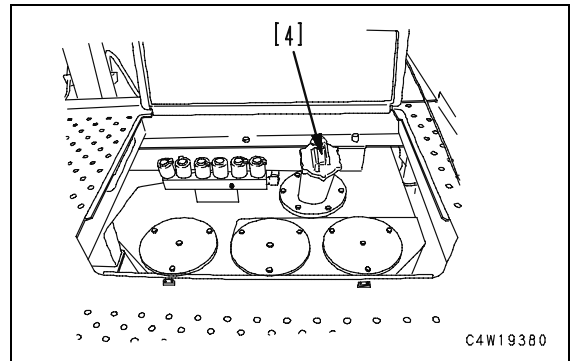
- ii. Set the work equipment lock lever [1] to the LOCK position.



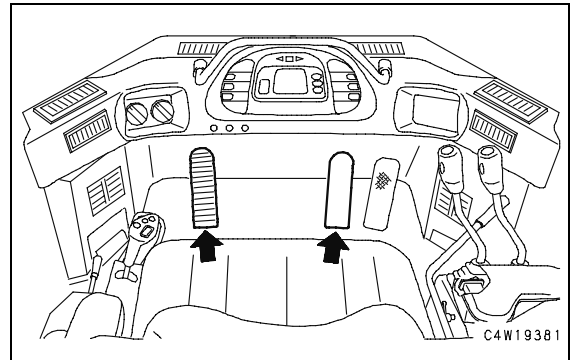
- iii. Set the joystick lever (lock lever) [3] to the LOCK position.



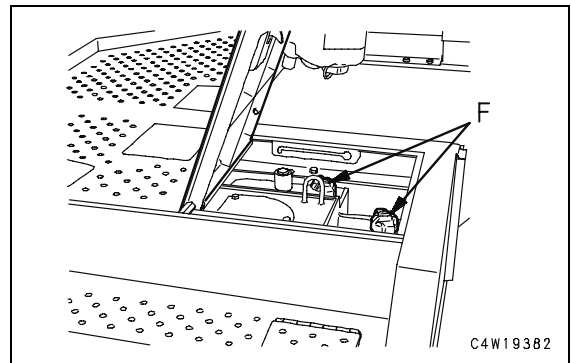
- iv. Loosen the oil filler cap [4] of the hydraulic oil tank. (Hold at a place where an opening hiss is heard.)



- v. Depress the brake pedal to the stroke end 10 times or more. (Until no hydraulic sound is heard)



- vi. Loosen the oil filler cap (F) of the brake oil tank. (Hold at a place where an opening hiss is heard.)



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