CEAM023203

Operation & Maintenance Manual

WA380-6

WHEEL LOADER

SERIAL NUMBERS WA380-6 A54001 and up

ENGINE 6D107E-1

March 2016

KOMATSU®

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Check Electric Wiring

⚠ WARNING

- If fuses frequently blow or if there are traces of short circuits on the electrical wiring, locate the cause and repair immediately, or contact your Komatsu distributor for repairs.
- Accumulation of flammable material (dead leaves, twigs, dry grass, etc.) around the battery may cause a fire. Always remove such material.
- Keep the top surface of the battery clean and check the breather hole in the battery cap. If it is clogged with dirt or dust, wash the battery cap to clear the breather hole.

- Check that the fuses are not damaged, that the fuses are of the correct capacity, and that there are no signs of short circuits or disconnections in the electric wiring.
- Check that there are no loose terminals or connectors. Tighten any loose parts.
- Check the wiring of the battery, starting motor, and alternator carefully.
- Check that there is no flammable material accumulated around the battery. Remove all flammable material.
- Consult your Komatsu distributor about repairs and correction of problems.

Check Inflation Pressure of Tires

- Check for damage or wear to the tires and the rims.
- Check for loose wheel hub nuts (bolts).
- Measure the inflation pressure with a tire pressure gauge while the tires are cool, before starting work.

Remark

The appropriate inflation pressure differs according to the type of work. See "HANDLING TIRES" on page 2-156.

Check Parking Brake

- Check that the parking brake works properly. See "Parking Brake Switch" on page 2-48 and "Check Parking Brake" on page 3-56.
- If there is any problem in the operation of the parking brake or the brake does not provide the proper braking effect, contact your Komatsu distributor to have the brake adjusted.

Check Brake Pedal

- Drive the machine forward and check the effect of the brakes.
- If there is any problem in the functioning of the brakes, contact your Komatsu distributor to have the brakes adjusted.

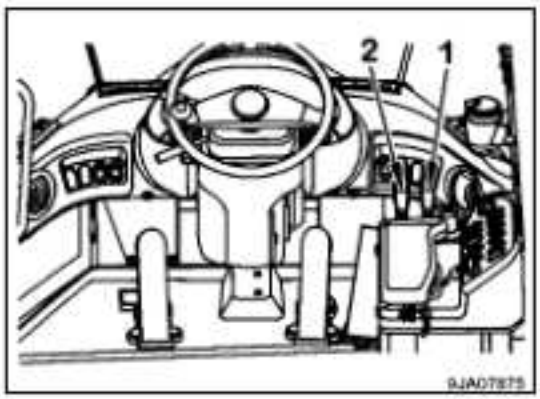
Check Condition of Window Washer Spray

- Operate the window washer and check that the washer fluid sprays out properly.
- If the fluid does not spray out properly, clean the washer nozzle with a safety pin or thin wire.
- If the condition is still not improved, ask your Komatsu distributor to carry out inspection and repair.

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Operation of Work Equipment

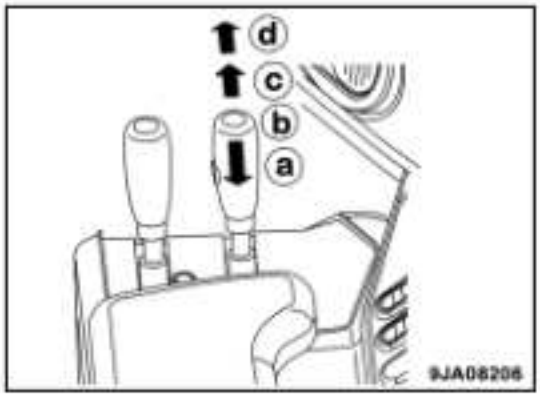
Lift arm control lever (1) and bucket control lever (2) can be used to operate the lift arm and bucket.



Lift Arm Operation

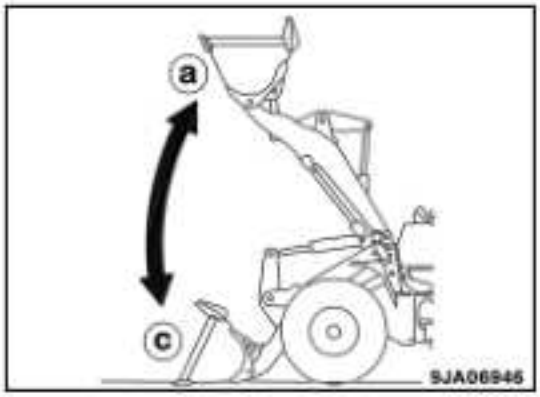
The lift arm control lever is used to operate the lift arm.

- Position (a): RAISE
  - When the lift arm control lever is pulled further from the RAISE position, the lever is stopped in this position until the lift arm reaches the preset position of the kickout, and the lever is returned to the HOLD position.
- Position (b): HOLD
  - The lift arm is kept in the same position.
- Position (c): LOWER
- Position (d): FLOAT
  - The lift arm moves freely under external force.



Remark

Do not use the FLOAT position when lowering the bucket. Use the FLOAT position when leveling: see "Leveling Operations" on page 2-125.



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Replace Fuel Prefilter Cartridge

⚠ WARNING

- **Immediately after the engine is stopped, all parts are VERY HOT. Do not replace the filter immediately. Wait for the engine to cool down before starting the operation.**
- **High pressure is generated inside the engine fuel piping system when the engine is running. When replacing the filter, wait for at least 30 seconds after the engine stops to let the internal pressure go down before replacing the filter.**
- **Do not bring any fire or spark close to the machine.**

Remark

Genuine Komatsu fuel filter cartridges use a special filter that has a highly efficient filtering ability. When replacing the filter cartridge, always use a genuine Komatsu part.

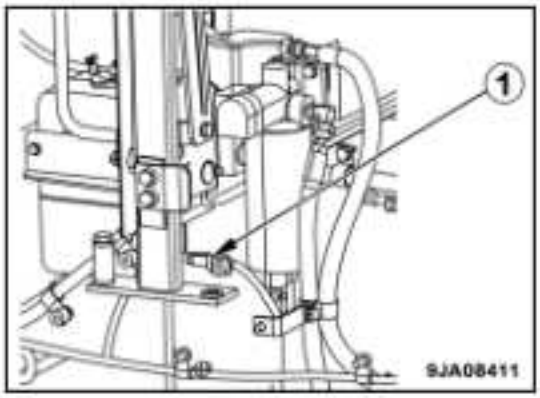
The common rail fuel injection system used on this machine consists of more precise parts than the conventional injection pump and nozzle. If any part other than a genuine Komatsu filter cartridge is used, dust or dirt may get in and cause problems with the injection system. Never use substitute parts.

When performing inspection or maintenance of the fuel system, pay more attention than normal to the entry of dirt. If dirt is stuck to any part, use fuel to wash it off completely.

Required

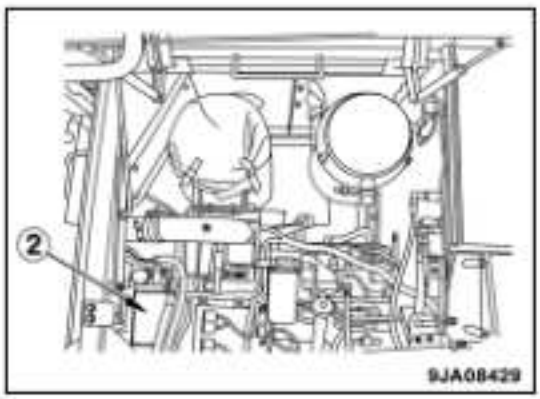
- Container to catch fuel
- Filter wrench

★ The fuel prefilter forms one unit with the water separator and is at the rear of the engine.



1. Stop the engine on level ground and lower the work equipment to the ground.
2. Open the engine side cover on the right side of the chassis.
3. Remove connector (1).

   After removing the connector, cover the connector terminals with a vinyl bag or tape to protect them and prevent them from becoming dirty.
4. Set the container to catch the fuel under the filter cartridge.
5. Using a filter wrench, turn filter cartridge (2) counterclockwise to remove it.



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