CEAM018204

Operation & Maintenance Manual

WA450-6

WHEEL LOADER

SERIAL NUMBERS WA450-6 A44001 and up

ENGINE 6D125E-5

March 2016

KOMATSU®

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OPERATION

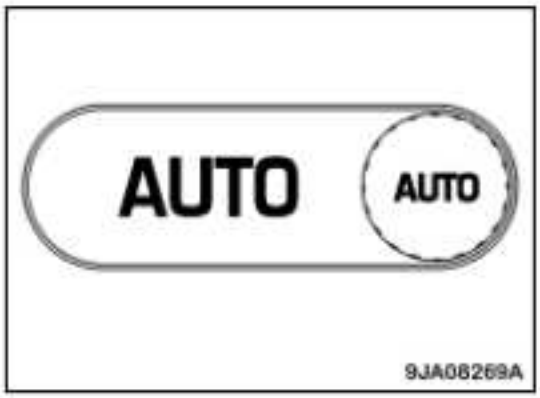
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Auto Switch

The auto switch (4) is used for automatic operation of the air conditioner (actuation of the cooling and dehumidifying/heating functions, stopping operation).

- When the main power switch is turned ON and the AUTO air conditioner switch is pressed, the air conditioner is turned ON and the display monitor shows "AUTO."
- If the switch is pressed again, the air conditioner is turned OFF and the "AUTO" sign on the display monitor goes out.

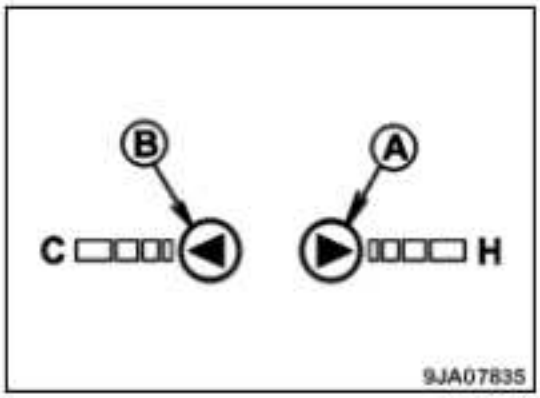


Temperature Switch

The temperature switch (5) is used to adjust the temperature.

- When switch (A) is pressed, the temperature of the air blowing out the vents increases.
- When switch (B) is pressed, the temperature of the air blowing out the vents decreases.

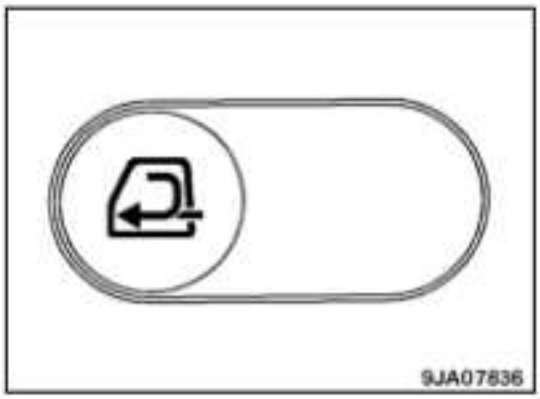
The set temperature is displayed on the display monitor.



FRESH/RECIRC Selector Switch

The FRESH/RECIRC switch (6) is used to select between recirculating air inside the cab or taking in fresh air from outside.

- When this switch is pressed, recirculation of inside air is selected and (A) lights up on the display monitor.
- If the switch is pressed again, intake of fresh air is selected and (B) lights up on the display monitor.

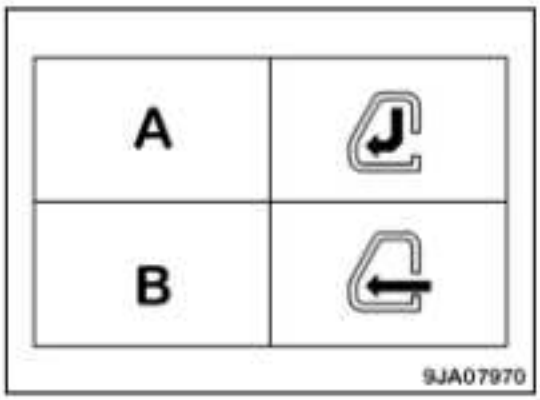


- Recirculation of air inside cab

  Only the air inside the cab is circulated. Use this setting when carrying out quick cooling or heating of the cab, or when the outside air is dirty.

- Intake of fresh air from outside

  Air from the outside is taken into the cab. Use this setting when taking in fresh air from outside or when removing the mist from the windows.



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Certification and Standards

Komatsu certifies its engines based on the use of the prescribed EPA and European Certification Fuels. Komatsu does not certify its engines on any other fuels.

It is the user's responsibility to use the correct fuel as recommended by Komatsu and allowed by the EPA or other local regulatory agencies. In the United States, the EPA allows only registered fuels and fuel additives to be used in commerce. The EPA has provided a web site for additional alternative fuel information at:

http:/www.epa.gov/otaq/consumer/fuels/altfuels/altfuels.htm.

The specifications for biodiesel are described in the ASTM D6751 Standard in North America and the EN14214 Standard in Europe. These specifications do not cover the fuel blends that may be purchased by the end user. Despite the specifications and standards, the quality of available biodiesel remains inconsistent.

⚠ WARNING

- To use biodiesel in Komatsu engines, it is imperative that the biodiesel fuel be of high quality.
- The biodiesel fuel must meet or exceed the specifications outlined by Komatsu or engine damage will occur.

- In order for the customer to successfully use biodiesel, it is recommended that the fuel be of high quality.
- The biodiesel fuel must meet or exceed the specifications outlined by Komatsu.
- It is the responsibility of the customer/user to verify/obtain the proper local, regional, or national exemptions required for the use of biodiesel in any emissions-regulated Komatsu engine.

★ If these items are disregarded, engine damage may occur.

Warranty and Use of Biodiesel Fuel in Komatsu Engines

The Komatsu warranty covers failures that are a result of defects in material or factory workmanship. Engine damage, service issues, and/or performance issues, determined by Komatsu to be caused by use of biodiesel fuel not meeting the specifications as outlined here, are not considered to be defects in material or workmanship and are not covered under the Komatsu warranty.

Requirements for Using Biodiesel Fuel in Komatsu Engines

Applications for diesel and biodiesel fuel blends of up to B5 must meet the requirements of ASTM D975 D1 and D2 fuels. An acceptable biodiesel fuel blend of up to 20% volume concentrate (B20) biodiesel with 80% petrodiesel can be used for all Komatsu engines.

End users must adhere to the following Komatsu requirements when using biodiesel blends above B5 and up to B20.

Remark

Komatsu requires that biodiesel blends be purchased from a BQ-9000 Certified Marketer. The B100 biodiesel fuel used in the blend must be sourced from a BQ-9000 Accredited Producer. Certified Marketers and Producers can be found at this web site: http://www.bq-9000.org.

Oil Sampling

Under certain biodiesel operating conditions, fuel dilution of lubricating oil has been observed. Monitoring fuel dilution can be accomplished by performing oil sampling. Fuel levels in lubricating oil must not exceed 5%.

In order to determine if the oil change interval needs to be modified, the end user is required to use oil sampling during the first six months of operation to monitor engine oil condition and fuel dilution of lubricating oil.

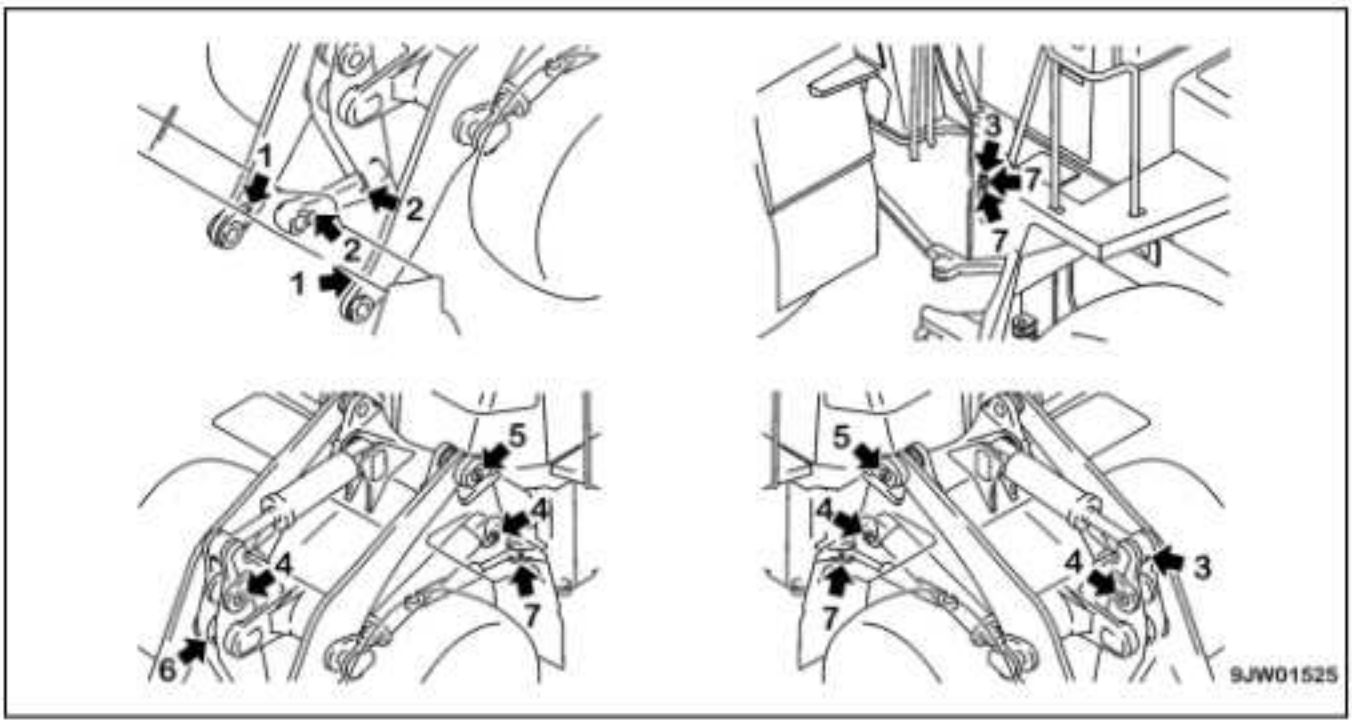
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Lubricating

1. Using a grease pump, pump grease in through the grease fittings marked by the arrows in the graphic.
2. After greasing, wipe off any old grease that was pushed out.

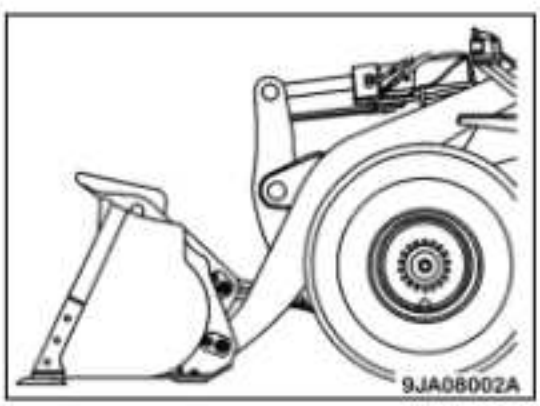
Remark

During the initial breaking of a new machine, carry out lubrication every 10 hours for the first 50 hours of operation. When working on job sites where heavy-duty operations are frequent or when working continuously for more than eight hours, shorten the lubrication interval and carry out lubrication more frequently.



1. Bucket pin (2 places)
2. Bucket link pin (2 places)
3. Dump cylinder pin (2 places)
4. Lift cylinder pin (4 places)
5. Lift arm pivot pin (2 places)
6. Bellcrank pin (1 place)
7. Steering cylinder pin (4 places)

★ When carrying out greasing of bucket pin (1), lift arm pivot pin (5), and bellcrank pin (6), lower the bucket to the ground and set it horizontally.



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