KEAM070900

Operation & Maintenance Manual

D61EX-24
D61PX-24
D61EXi-24
D61PXi-24

BULLDOZER

SERIAL NUMBERS
D61EX-24 B60001 and up
D61PX-24 B60001 and up
D61EXi-24 B60001 and up
D61PXi-24 B60001 and up

ENGINE 6D107E-3 Series

June 2016

KOMATSU®

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FUNCTION SWITCHES

The operation of the function switches in the standard screen

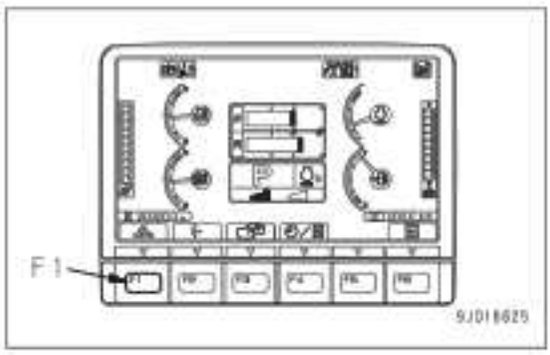
CUSTOMIZE SWITCH

⚠ CAUTION

To ensure safety, always stop the machine before operating the customize switch.

Press switch F1, and "Mode Select" screen is displayed.

On "Mode Select" screen, you can set and save the following items as desired.



Item	Contents of setting
Operating Mode	High engine idle speed/ Power/ Economy"
Gear Shift Mode	Quick shift/ Variable shift
Pedal Mode	Decelerator mode/ Brake mode
Reverse Travel Speed Setting	-1/0/+1/+2/+3 (5 levels)
Load Graph Display	ON/OFF
Blade Mode	FAST/ NORMAL/ FINE
Steering Mode	NORMAL/ FINE
1st Speed Setting	-2/-1/0/+1/+2 (5 levels)
2nd Speed Setting	-2/-1/0/+1/+2 (5 levels)
3rd Speed Setting	-2/-1/0 (3 levels)

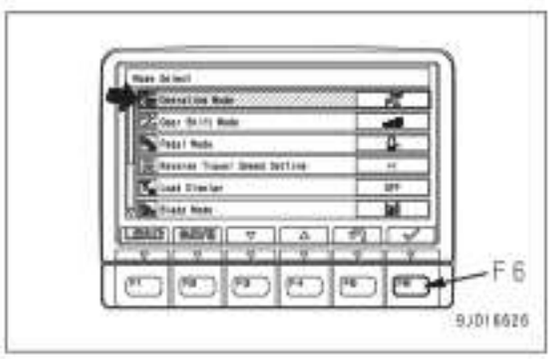
OPERATING MODE

Select "Operating Mode" on "Mode Select" screen, and press switch F6.

Operating mode of engine can be switched in accordance with the operation.

Operating mode can also be switched with the operating mode selector switch.

For the operating mode selector switch, see "OPERATING MODE SELECTOR SWITCH (3-45)".



GEAR SHIFT MODE

Select "Gear Shift Mode" on "Mode Select" screen, and press switch F6.

Gear shift mode can be changed according to the work.

Gear shift mode can also be changed by the gear shift mode selector switch.

For the gear shift mode selector switch, see "GEAR SHIFT MODE SELECTOR SWITCH (3-46)".



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STORE OIL AND FUEL

- Keep oil and fuel indoors to prevent any water, dirt, or other impurities from getting in.
- When keeping drum cans for a long period, lay the drums so that the filler ports of the drums are located in the lower part of the side to prevent moisture from being sucked in. If drums have to be stored outside, cover them with a waterproof sheet or take other measures to protect them.
- To prevent any change in quality during long-term storage, be sure to use in the order of first in - first out (use the oldest oil or fuel first).

STORE DEF

- Completely seal up its container for storage. Only open containers in a well-ventilated area.
- When storing DEF, avoid direct sunlight. Always use the original container. Make sure that transfer equipment and tank must meet DEF compatible material specification. If DEF is stored in an iron or aluminum container, toxic gas may develop and a chemical reaction may corrode the container.
- The relationship between the upper limit of storage temperature and the storage period of DEF is shown in the table.

Temperature of storage area	Storage period
Max.10 °C {50 °F}	Up to 36 months
Max.25 °C {77 °F}	Up to 18 months
Max.30 °C {86 °F}	Up to 12 months
Max.35 °C {95 °F}	Up to 6 months

*: Do not store DEF in the temperature of 35 °C {95 °F} or above.

For the storage in cold weather, see the section about DEF in "COLD WEATHER OPERATION (3-243)".

FILTER

- Filters are extremely important safety parts. They prevent impurities in the oil, fuel, and air circuits from entering important equipment and causing problems. Replace all filters periodically. For details, see Operation and Maintenance Manual.
  However, when working in severe conditions, replace the filters at shorter intervals according to the oil and fuel (sulfur content) being used.
- Never try to clean and use again the filters (cartridge type). Always replace them with new filters.
- When replacing oil filters, check if any metal particles are attached to the old filters.
  If any metal particles are found, consult your Komatsu distributor.
- Do not open packages of spare filters until just before they are to be used.
- Komatsu recommends using Komatsu genuine filters.

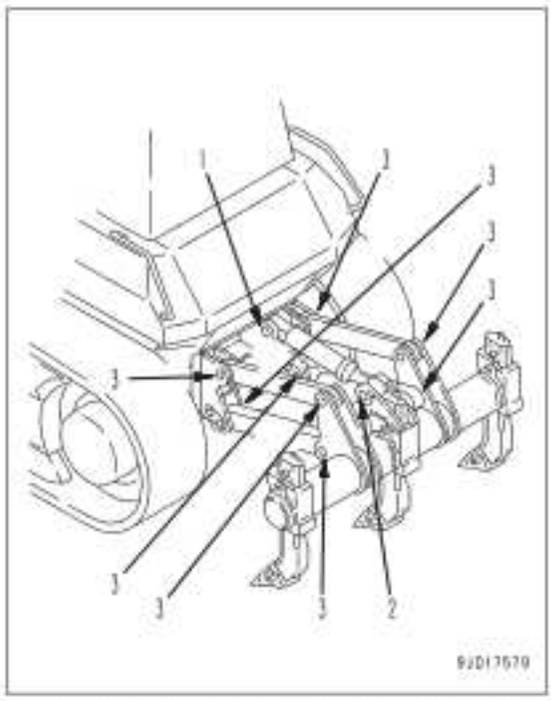
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CHECK AND MAINTENANCE

EVERY 250 HOURS MAINTENANCE

METHOD FOR LUBRICATING

1. Lower the ripper to the ground and stop the engine.
2. By using a grease pump, pump in grease through the grease fittings.
3. After greasing, wipe off any old grease that is pushed out.
   (1) Ripper cylinder bottom pin (1 place)
   (2) Ripper cylinder rod end pin (1 place)
   (3) Link pin (8 places)



METHOD FOR CHECKING OIL LEVEL IN HYDRAULIC TANK, ADDING OIL

1. Place the machine on a level ground and lower the work equipment to the ground.
   If the machine is inclining, make it level.
2. Make the blade perpendicular and lower it to the ground.
3. Make the ripper point touch the ground.
4. Stop the engine.
5. Check oil level in hydraulic tank.
   For details, see "METHOD FOR CHECKING OIL LEVEL IN HYDRAULIC TANK, ADDING OIL (3-155)".

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