TEN00281-00

Operation & Maintenance Manual

CRAWLER
CARRIER

CD60R-1

SERIAL NUMBERS 2012 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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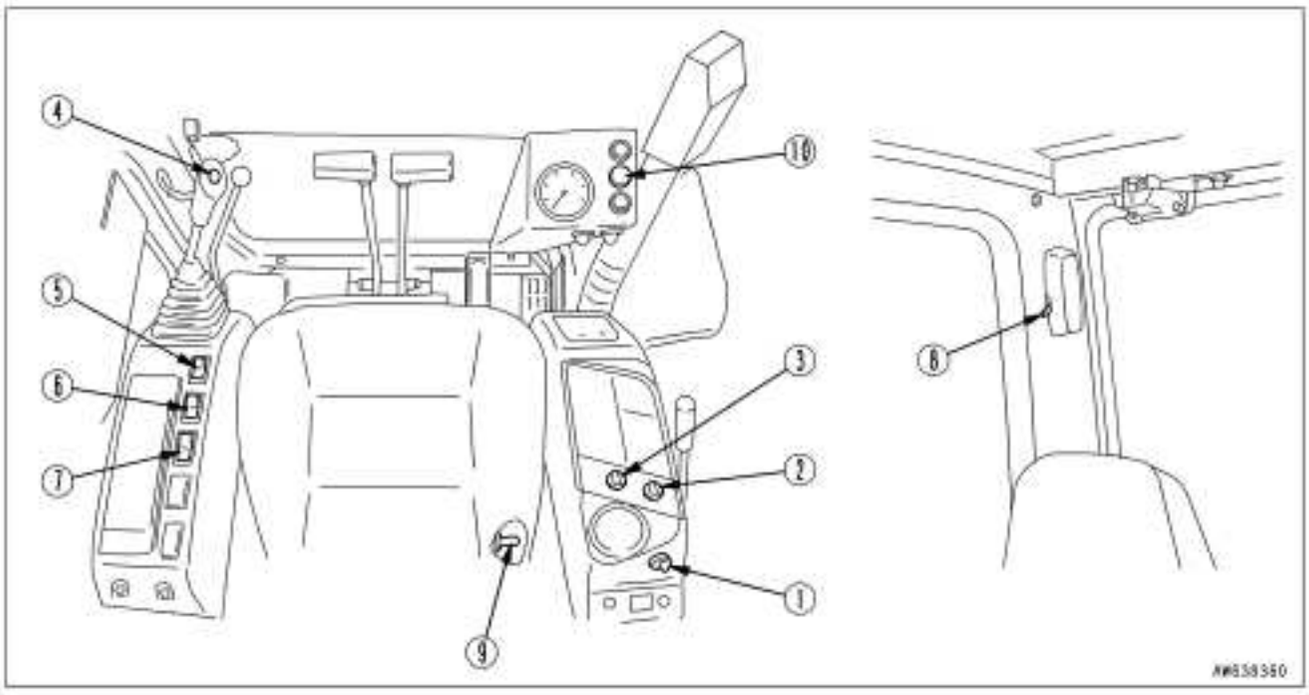
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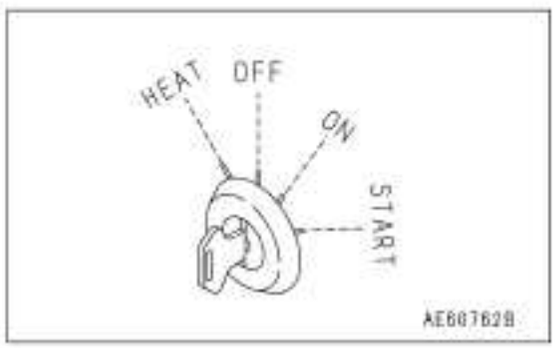
SWITCHES



(1) Starting switch
(2) Lamp switch
(3) Car heater switch
(4) Horn button
(5) Travel speed selector switch
(6) Swing lock switch
(7) Wiper switch
(8) Room lamp switch
(9) Swing lock override switch
(10) Brake switch (Emergency)

STARTING SWITCH

This switch (1) is used to start or stop the engine.



OFF position:
The key can be inserted or withdrawn. Except for the cab lamp, the switches for the electric system are all turned off and the engine is stopped.

ON position:
In this position, electric current flows in the charging and lamp circuits.
Keep the starting switch key at the ON position while the engine is running.

START position:
This is the position to start the engine. Hold the key at this position while cranking. Release the key immediately after the engine has been started. The key will return to ON position when released.

HEAT (preheat) position
When starting the engine in winter, set the key to this position. When the key is set to the HEAT position, the pre-heating monitor lights up. Keep the key at this position until the monitor lamp flashes. Immediately after the pre-heating monitor flashes, release the key. The key automatically returns to the OFF position. Then, start the engine by turning the key to the START position.

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LIFTING MACHINE

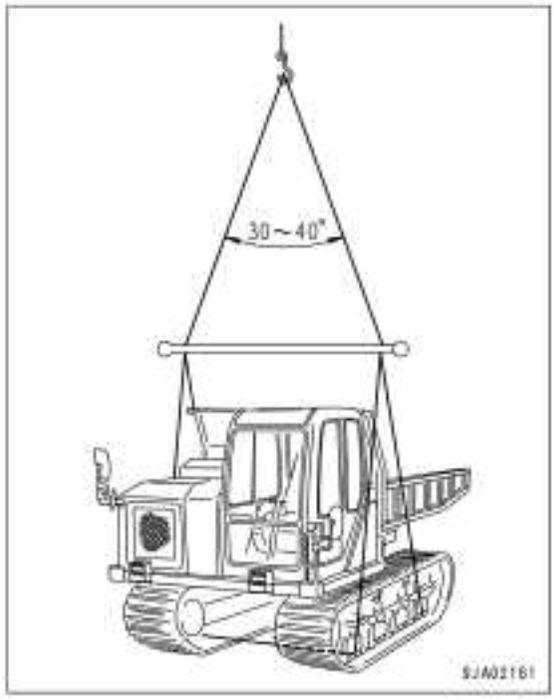
⚠ WARNING

- **Do not lift the machine with any worker on it.**
- **Use wire ropes having sufficient strength for the weight of this machine.**
- **Lift the machine in only the position shown below. If it is lifted in another position, it may be unbalanced.**
- **Do not raise the machine with the upper structure swung to the side. Set the upper structure parallel to the undercarriage before lifting.**
- **Lift the machine horizontally.**

NOTICE
The lifting procedure applies to machines with standard specifications.
The method of lifting differs according to the attachments and options actually installed. In such cases, please contact your Komatsu distributor for information.

For details of the weight, see "SPECIFICATIONS (PAGE 5-2)".

1. Stop the engine and confirm that there is nothing around the operator's seat, then get off the machine.
2. Pass the wire rope between the 1st and 2nd track rollers from the front and the 1st and 2nd track rollers from the rear.
3. Set the lifting angle of the wire rope to 30 - 40°, then lift the machine slowly.
4. After the machine leaves the ground, stop lifting once. After the machine is stabilized, lift it up slowly.



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EVERY 1000 HOURS SERVICE

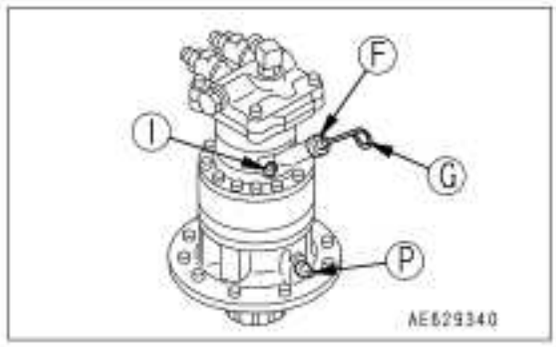
Maintenance for every 100, 250 and 500 hours should be carried out at the same time.

CHECK OIL LEVEL IN SWING MACHINERY CASE, ADD OIL

⚠ WARNING

- **Raise the body. Fit the dump body support rod securely to prevent the body from coming down.**
- **The parts and oil are at high temperature after the engine is stopped, and may cause serious burns. Wait for the temperature to go down before starting the operation.**

1. Remove dipstick (G) and wipe the oil off with a clean cloth.
2. Insert dipstick (G) fully in the dipstick guide pipe, then take it out again.
3. The oil level should be between the H and L marks on dipstick (G).
4. If the oil level is below the L mark, add engine oil through oil filler (F).
   When adding oil, remove air bleed plug (1).



5. If the oil is above the H mark, drain the excess engine oil from drain plug (P), and check the oil level again.
6. After inspecting the oil level and adding oil, insert the dipstick, then install air bleed plug (1).

CHECK FAN BELT TANSION, ADJUST

Special tools are required for inspection an replacement fan belt. Contact your Komatsu distributor for inspection and replacement.

REMARK
An auto-tensioner (a device to automatically adjust the fan belt tension) is installed, so it is not necessary to adjust the tension.

CHECK ALL TIGHTENING PARTS OF TURBOCHARGER

Please contact your Komatsu distributor to have the tightening portions checked.

CHECK PLAY OF TURBOCHARGER ROTOR

Please contact your Komatsu distributor to have the rotor play checked.

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