SEAM015100

Operation & Maintenance Manual

KOMATSU®

PC12R-8
PC15R-8

HYDRAULIC EXCAVATORS

SERIAL NUMBERS PC12R-8 - 10001
PC15R-8 - 10001
and up

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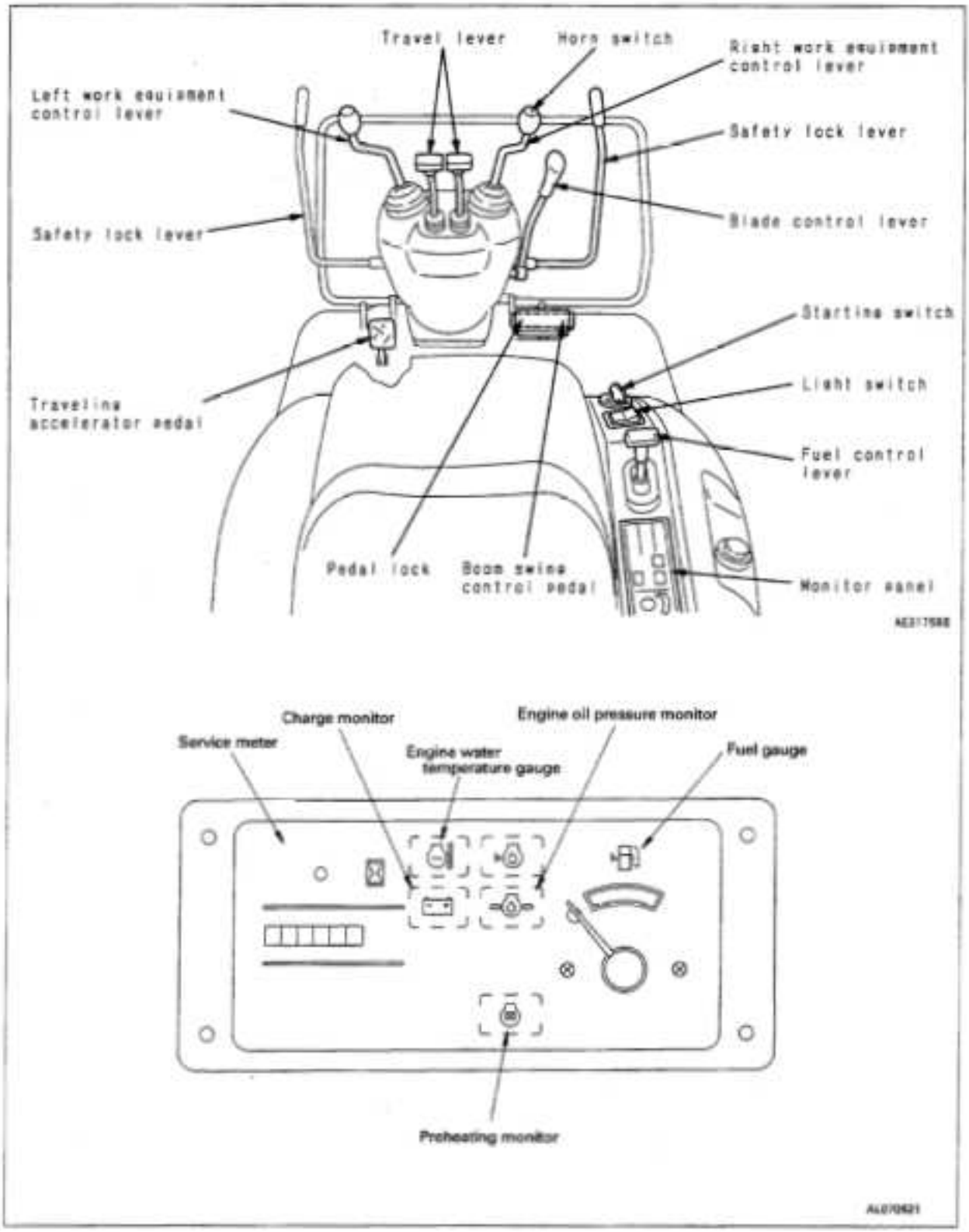
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10.2 GENERAL VIEW OF CONTROLS AND GAUGES



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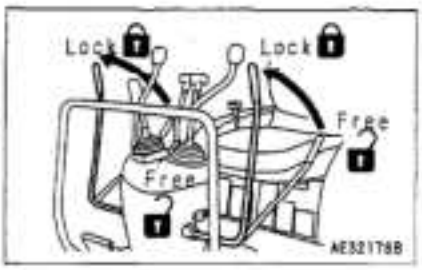
13.4 METHOD OF LIFTING MACHINE

⚠ WARNING

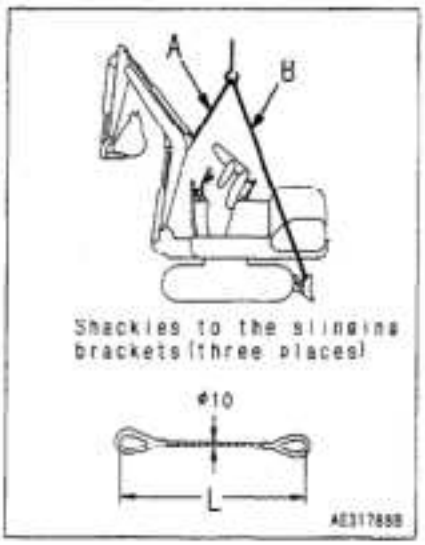
- **Never raise the machine with any worker on it.**
- **Always make sure that the wire rope used for lifting the machine is of ample strength for the weight of the machine.**
- **Never try to lift the machine in any posture other than the posture given in the procedure below.**
  There is danger that the machine may lose its balance.
- **The machine must never be raised with the undercarriage turned.**
- **When lifting the machine, be careful of the position of the center of gravity and always maintain the balance.**

When lifting the machine, carry out the operation as follows on flat ground.

For machines equipped with a blade, raise the blade before lifting the machine.



1. Place the blade to the rear of the machine.
2. Extract the bucket cylinder, arm cylinder and bucket cylinder to the end. Set the work equipment control levers to the neutral position and set the safety lock lever to the LOCK position.
3. Raise the blade to be end.
4. Set the boom swing operation to the neutral position without swinging the boom, then lock the pedal.
5. Remove the canopy and incline the operator's seat forward.
6. Install shackles to both ends of the blade and the hanging bracket of the boom (three places), then install the wire ropes to them securely. Be sure to use all three brackets.



REMARK

Be sure to apply protectors to the parts which the wire ropes will touch. The proper length of each wire rope is as follows.

	Wire A	Wire B
L (mm)	1700 (68 in)	3000 (120 in)
Pieces/machine	1	2

7. When hanging up the machine, adjust the hanging angle of the wire ropes to 30 – 40°.
8. After the machine leaves the ground, stop lifting. After the machine is stabilized, lift it up slowly.

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18.1.4 GREASE

- Grease is used to prevent twisting and noise at the joints.
- The nipples not included in the maintenance section are nipples for overhaul, so they do not need grease.
  If any part becomes stiff after being used for long time, add grease.
- Always wipe off all of the old grease that is pushed out when greasing. Be particularly careful to wipe off the old grease in places. Where sand or dirt sticking in the grease would cause wear of the rotating parts.

18.1.5 STORING OIL AND FUEL

- Keep indoors to prevent any water, dirt, or other impurities from getting in.
- When keeping drum cans for a long period, put the drum on its side so that the filler port of the drum can is at the side. (To prevent moisture from being sucked in)
  If drum cans 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).

18.1.6 FILTERS

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

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