

Operator's Manual Parts Catalog

ZAXIS

450LC-3

470LCH-3

Super Long Front Attachment
(Type 20)

Hydraulic Excavator

 **Hitachi Construction Machinery Co., Ltd.**
URL:<http://www.hitachi-c-m.com>



INTRODUCTION

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- This Operator's Manual has been compiled for the Supper Long ZAXIS450-3 Type 20 Hitachi Hydraulic Excavator.
See the Hitachi ZAXIS450-3 Excavator Operator's Manual for the general information on operation and maintenance not described in this manual. Thoroughly read this manual and the Hitachi ZAXIS450-3 Excavator Operator's Manual to operate this machine as efficiently as possible.
- Only the parts that differ from those on the ZAXIS450-3 Hitachi Hydraulic Excavator are described in this manual. Refer to the Parts Catalog for ZAXIS450-3 Hitachi Hydraulic Excavator for other inquiries than described in this manual.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

Operator's Manual

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PARTS CATALOG

PRECAUTIONS FOR OPERATION

BEFORE USING

This machine has been designed so that the Type 20 super long front attachment can be installed.

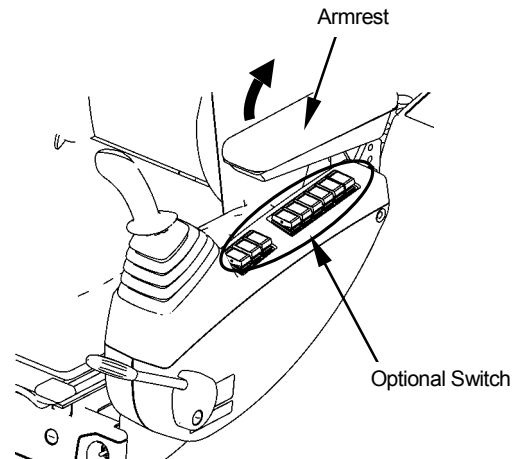
The super long front is used for light digging (gravel digging work, mound digging work, river improvement work etc.)

There is a boom mode switch (4) function in this machine. Use this function according to the use application.

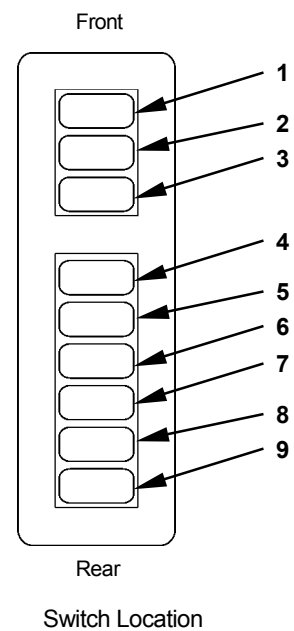
Boom Mode Switch (4)

When boom mode switch (4) is turned ON, the machine cannot be raised off the ground with the front attachment, reducing machine vibration to be developed during excavation.

When turned OFF, the machine can be raised off the ground with the front attachment, allowing the machine to evacuate if the machine becomes stranded in a muddy area.



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Switch Location

PRECAUTIONS FOR OPERATION

PRECAUTIONS FOR OPERATION

IMPORTANT: Beware of the following points when operating the machine.

Prohibited Operation

- Do not apply this machine to general civil engineering works other than light duty work such as digging gravel, digging mound, improving river etc.
- Observe the instructions mentioned below. Failure to do so may result in damage to the base machine and the front attachment.
 - Avoid excavating gravel and compacted soil.
 - Avoid raising the machine off the ground using the front attachment, moving the front attachment quickly, or traveling the machine with the arm cylinder fully extended (maximum length).

Jack-up Method: When raising the machine off the ground, keep the angle between the boom and arm at 90 °.

Travel Method: Retract the arm cylinder more than 100 mm from the fully extended position when traveling the machine.

- Use a bucket as much as possible in excavation work. Never attempt to excavate ground using swing power or to engage in grading work.

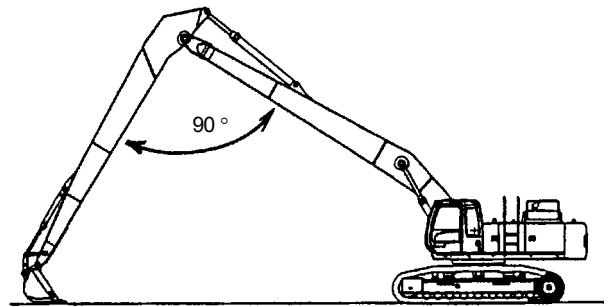
Do not allow the front attachment to come in contact with piled soil, trees and/or immovable objects during swing operation.

- Machine stability is greater when the load is positioned parallel with the tracks.

Machine stability is reduced when operating the front attachment perpendicular to the tracks.

Note that there is always a possibility of machine tipping over when operating by constraint at this position.

Do not operate the machine at this position as much as possible. (Especially, the digging operation cannot be watched in the underwater digging, avoid overloading the front attachment, as this may damage the front attachment.)

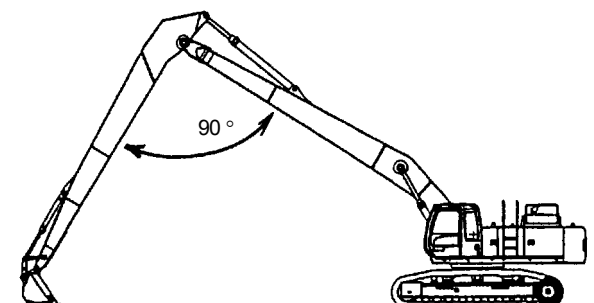


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PRECAUTIONS FOR OPERATION

Other Precaution

- This counterweight weight is heavier than the standard counterweight weight. More loading operates on the frame structure.
Do not operate the vertical vibration as much as possible.
- The long front attachment may cause the machine to lose stability.
Operate loading work as nearly as possible.



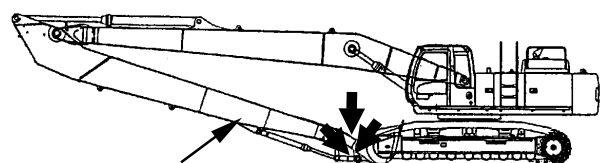
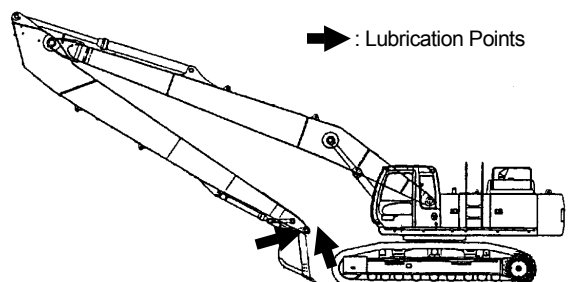
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IMPORTANT: The front attachment speed is set when the machine is shipped.
If re-adjustment is required, contact your nearest HITACHI dealer.

Greasing Position

Add grease to all fittings shown below for bucket, link pins and other front pins.
The greasing positions are as illustrated .

- Important:**
- Lubricate the pins to be dipped in water during operation after finishing the day's operation.
 - When storing the machine, retract all hydraulic cylinders, if possible. If not, coat exposed cylinder rods with grease.
 - The bucket and link pins tend to become greasing shortage.
Lubricate these pins even when not underwater digging.



- Concentrated Block
- Boom to Arm Pins
 - To Arm Cylinder Rod
 - To Bucket cylinder Bottom

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