CEAM007203

Operation & Maintenance Manual

KOMATSU®

PC270LC-8

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC270LC-8 A87001 and up

ENGINE 6D107E-1

March 2016

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TABLE OF CONTENTS

INTRODUCTION

FORWARD 0-2
SAFETY INFORMATION 0-3
INTRODUCTION 0-5
Directions of Machine 0-5
Breaking-in the New Machine 0-6
Product Information 0-7
Product Identification Number (Pin) / Machine Serial No. Plate 0-7
EPA* Regulations, Engine Number Plate 0-7
Service Meter Location 0-8
Your Machine Serial Numbers and Distributor 0-8
TABLE OF CONTENTS 0-9

SAFETY

SAFETY LABELS 1-2
Location of Safety Labels 1-3
Safety Labels 1-4
GENERAL PRECAUTIONS COMMON TO OPERATION AND MAINTENANCE 1-11
Precautions Before Starting Operation 1-11
Ensuring Safe Operation 1-11
Understanding the Machine 1-11
Preparations for Safe Operation 1-11
Precautions Regarding Safety-Related Equipment 1-11
Inspecting Machine 1-11
Clothing and Personal Protective Items 1-11
Keep Machine Clean 1-12
Keep Operator's Compartment Clean 1-12
Fire Extinguisher and First Aid Kit 1-12
Safety Equipment 1-12
If Problems are Found 1-12
Fire Prevention and Explosion Prevention 1-13
Action if Fire Occurs 1-13
Handrails and Steps 1-14
Mounting and Dismounting 1-14
No Persons on Attachments 1-14
Leaving Operator's Seat with Lock 1-15
Emergency Exit from Operator's Cab 1-15
Do Not Get Caught in Work Equipment 1-16
Precautions Related to Protective Structures 1-16
Falling Objects, Flying Objects and Intruding Objects Prevention 1-16
Unauthorized Modification 1-17
Precautions Related to Attachments and Options 1-17
Precautions Related to Cab Glass 1-17
Precautions When Running Engine Inside Building 1-17

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Burn Prevention 1-18
Hot coolant 1-18
Hot oil 1-18
Windshield Washer Fluid 1-18
Safety at Jobsite 1-19
Working on Loose Ground 1-19
Distance to High Voltage Cables 1-19
Ensure Good Visibility 1-20
Signalman's Signal and Signs 1-20
Asbestos Dust Hazard Prevention 1-21
SAFETY MACHINE OPERATION 1-22
Starting Engine 1-22
Checks Before Starting Engine 1-22
Safety Rules for Starting Engine 1-23
Starting Engine in Cold Weather 1-23
Starting Engine with Booster Cables 1-23
Operation 1-24
Checks Before Operation 1-24
Safety Rules for Changing Machine Directions 1-24
Safety Rules for Traveling 1-25
Traveling on Slopes 1-26
Operations on Slopes 1-27
Prohibited Operations 1-27
Operations on Snow or Frozen Surfaces 1-29
Parking Machine 1-29
TRANSPORTATION 1-30
Loading and Unloading 1-30
Shipping the Machine 1-30
TOWING 1-31
Safety Rules for Towing 1-31
LIFTING OBJECTS WITH BUCKET 1-32
Safety Rules for Lifting Objects 1-32
SAFETY MAINTENANCE INFORMATION 1-33
Warning Tag 1-33
Keep Work Place Clean and Tidy 1-33
Select Suitable Place for Inspection and Maintenance 1-33
Only Authorized Personnel 1-33
Appoint Leader when Working with Others 1-33
Stop Engine before Carrying Out Maintenance 1-34
Precautions when Working at High Places 1-34
Two Workers for Maintenance when Engine is Running 1-35
Proper Tools 1-35
Accumulator 1-35
Battery 1-36
Battery Hazard Prevention 1-36
Handling Gas Spring 1-37
Precautions when using 1-37
Precautions when discarding 1-37
Personnel 1-37

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Attachments 1-38
Work Under the Machine 1-38
Noise 1-38
When using Hammer 1-38
Welding 1-38
Removing Battery Terminals 1-39
Safety First when using High-Pressure Grease to Adjust Track Tension 1-39
Do Not Disassemble Recoil Springs 1-39
Precautions with High-temperature Coolant 1-40
Precautions with High-temperature Oil 1-40
Safety Rules for High-pressure Oil 1-40
Precaution for High Fuel Pressure 1-41
Safety Handling High-pressure Hoses 1-41
Precaution for High Voltage 1-41
Waste Materials 1-41
Air Conditioner Maintenance 1-42
Compressed Air 1-42
Periodic Replacement of Safety Critical Parts 1-42

OPERATION

MACHINE VIEW ILLUSTRATIONS 2-2
Overall Machine View 2-2
CONTROLS AND GAUGES 2-3
Machine Monitors 2-4
DETAILED CONTROLS AND GAUGES 2-5
Monitoring System 2-5
Basic Operation of Machine Monitor 2-6
Emergency Monitors 2-11
Caution Monitors 2-13
Basic Check Monitors 2-16
Meter Display Portion 2-18
Pilot Display 2-18
Gauges and Meter 2-22
Function Switches 2-34
Handling Function Switches 2-35
Service Meter/Clock Display Selector Switch 2-41
Maintenance Selector Switch 2-42
User Mode Selector Switch 2-45
SWITCHES 2-75
Starting Switch 2-75
Fuel Control Dial 2-76
Cigarette Lighter 2-76
Swing Lock Switch 2-76
Lamp Switch 2-77
Horn Switch 2-77
One Touch Power Max. Switch 2-77
Room Lamp Switch 2-77
Emergency Pump Drive Switch 2-78

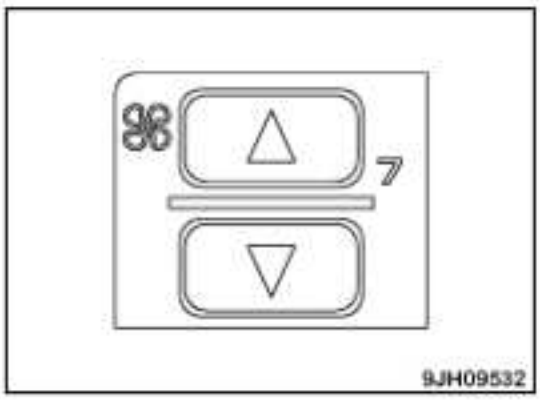
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Fan Switch

Switch (2) is used to adjust the air flow.

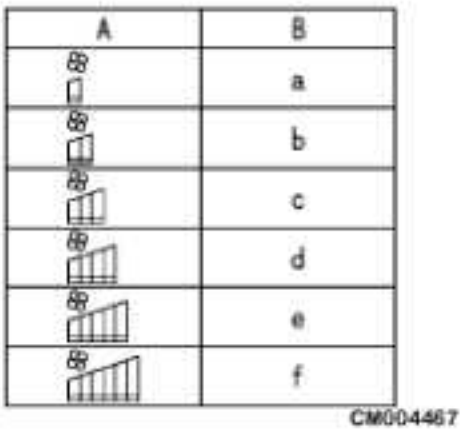
The air flow can be adjusted to six levels.

- Press the Δ switch to increase the air flow; press the ∇ switch to decrease the air flow.
- During auto operation, the air flow is automatically adjusted.



A: Liquid crystal display
B: Air flow

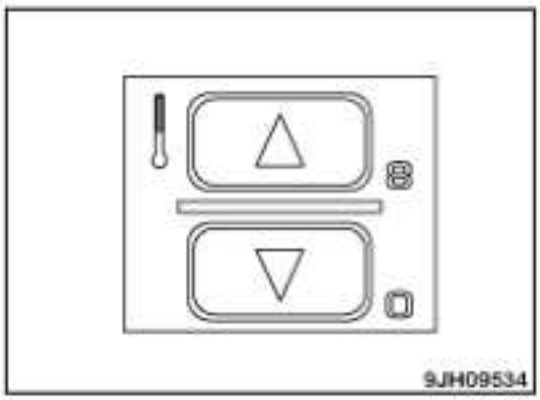
a: Air flow "low"
b: Air flow "medium 1"
c: Air flow "medium 2"
d: Air flow "medium 3"
e: Air flow "medium 4"
f: Air flow "high"



Temperature Control Switch

Switch (3) is used to control temperature inside the cab. The temperature can be set between 18°C (64.4°F) and 32°C (89.6°F).

- Press the Δ switch to raise the set temperature; press the ∇ switch to lower the set temperature.
- The temperature is generally set at 25°C (77°F).
- The temperature can be set in stages of 0.5°C (0.9°F).



<Monitor display and the function>

Monitor display (°C)	Set temperature
18.0	Max. cooling
18.5 to 31.5	Adjusts temperature inside cab to set temperature
32.0	Max. heating

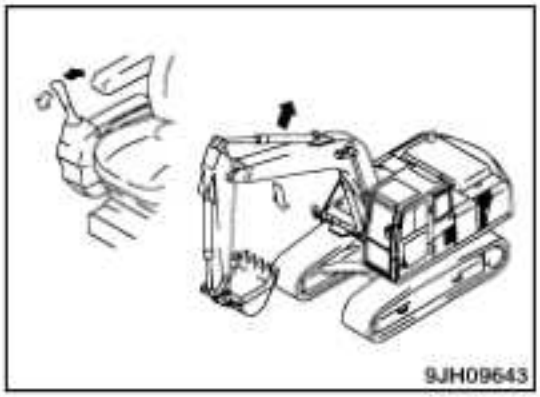
Remark

If the mode is set to auto mode and the temperature setting is set to 18.0 °C (64.4 °F) or 32.0 °C (89.6 °F), the air flow from the fan is always set to HIGH and does not change even when the set temperature is reached.

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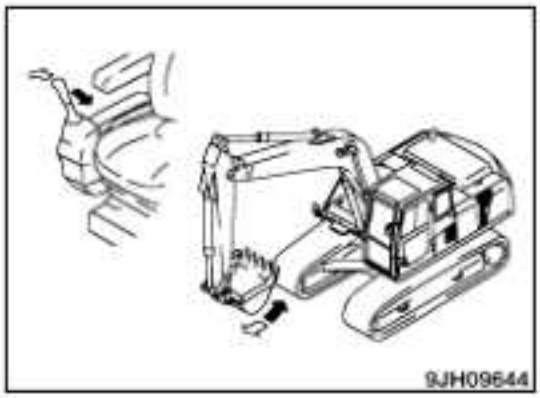
Boom operation

Move the right work equipment control lever to the front or rear to operate the boom.



Bucket operation

Move the right work equipment control lever to the left or right to operate the bucket.



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Grease

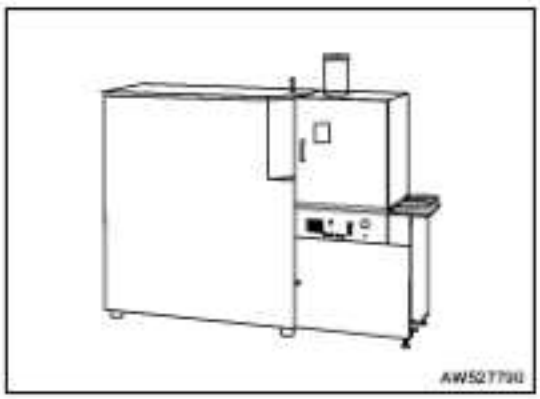
- Grease is used to prevent seizure and noises at the joints.
- This construction equipment is used under heavy-duty conditions. Always use the recommended grease and follow the change intervals and recommended ambient temperatures given in this Operation and Maintenance Manual.
- The nipples not included 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.

Carrying Out KOWA (Komatsu Oil Wear Analysis)

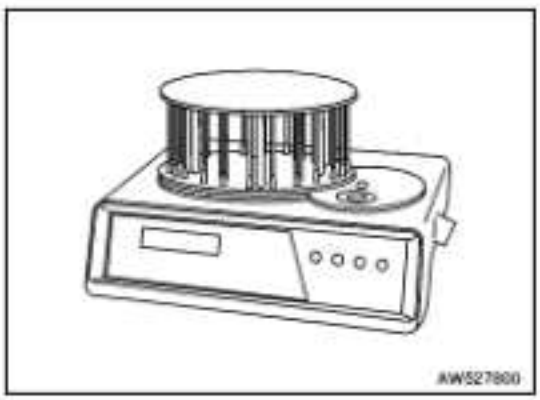
KOWA is a maintenance service that makes it possible to prevent machine failures and downtime. With KOWA, the oil is periodically sampled and analyzed. This enables early detection of wear of the machine drive parts and other problems.
We strongly recommend you to use this service. The oil analysis is carried out at actual cost, so the cost is low, and the results of the analysis are reported together with recommendations which will reduce repair costs and machine downtime.

KOWA Analysis Items

- Measurement of density of metal wear particles
  This uses an ICP (Inductively Coupled Plasma) analyzer to measure the density of iron, copper, and other metal wear particles in the oil.



- Measurement of quantity of particles
  This uses a particle quantifier index measurement machine to measure the quantity of iron particles of 5m or more, enabling early detection of failures.



- Others
  Measurements are made of items such as the ratio of water in the oil, density of the antifreeze coolant, ratio of fuel in the oil, and dynamic viscosity, enabling a highly precise diagnosis of the machine's health.

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