CEAM003401

Operation & Maintenance Manual

KOMATSU®

PC270LC-6

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC270LC-6 A83001 and up

ENGINE 6D102EA-1

April 2016

MidWestTech | Komatsu PC270LC-6 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

5. TABLE OF CONTENTS

1. FORWARD 0-2

2. SAFETY INFORMATION 0-3

3. INTRODUCTION 0-4
3.1 INTENDED USE 0-4
3.2 FEATURES 0-4
3.3 BREAKING IN THE MACHINE 0-4

4. LOCATION OF PLATES, TABLE TO ENTER P.I.N AND DISTRIBUTOR 0-5
4.1 P.I.N. PLATE LOCATION 0-5
4.2 ENGINE SERIAL NUMBER PLATE 0-5
4.3 TABLE TO ENTER NUMBERS AND DISTRIBUTOR 0-5

5. TABLE OF CONTENTS 0-6

6. GENERAL PRECAUTIONS 1-3

7. PRECAUTIONS DURING OPERATION 1-11
7.1 BEFORE STARTING ENGINE 1-11
7.2 OPERATING MACHINE 1-13
7.3 TRANSPORTATION 1-19
7.4 BATTERY 1-21
7.5 TOWING 1-23
7.6 BUCKET WITH HOOK 1-24

8. PRECAUTIONS FOR MAINTENANCE 1-25
8.1 BEFORE CARRYING OUT MAINTENANCE 1-25
8.2 DURING MAINTENANCE 1-29

9. POSITION FOR ATTACHING SAFETY LABELS 1-35

10. GENERAL VIEW 2-2
10.1 GENERAL VIEW OF MACHINE 2-2
10.2 GENERAL VIEW OF OPERATORS COMPARTMENT 2-3
10.3 GENERAL VIEW OF MONITOR PANEL 2-4

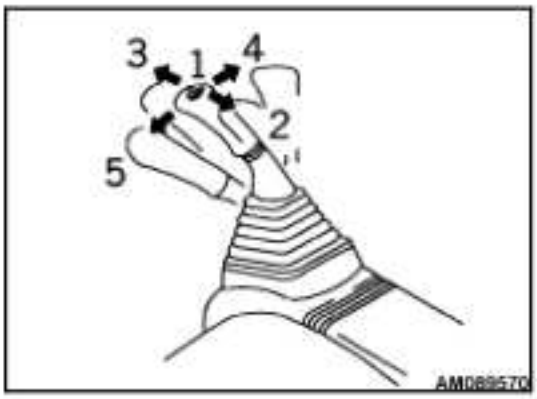
11. EXPLANATION OF COMPONENTS 2-5
11.1 MACHINE MONITOR 2-5
11.1.1 MONITOR LIGHT GROUP 2-7
11.1.2 METER DISPLAY PORTION 2-9
11.1.3 SWITCHES 2-12
11.2 SWITCHES 2-15
11.2.1 STARTING SWITCH 2-15
11.2.2 FUEL CONTROL DIAL 2-16
11.2.3 CIGARETTE LIGHTER 2-16
11.2.4 SWING LOCK SWITCH 2-16
11.2.5 WIPER SWITCH 2-16
11.2.6 LIGHT SWITCH 2-17
11.2.7 ALARM BUZZER STOP SWITCH 2-17
11.2.8 CAB HEATER FAN SWITCH 2-17
11.2.9 HORN SWITCH 2-17
11.2.10 KNOB SWITCH 2-17
11.2.11 CAB LIGHT SWITCH 2-17
11.2.12 PUMP CONTROL OVERRIDE SWITCH 2-18
11.2.13 SWING LOCK OVERRIDE SWITCH 2-18

MidWestTech | Komatsu PC270LC-6 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

11.3.4 RIGHT WORK EQUIPMENT CONTROL LEVER

⚠ WARNING

If any lever is operated when in the deceleration range, the engine speed will suddenly increase, so be careful when operating the lever.



This lever is used to operate the arm and upper structure.

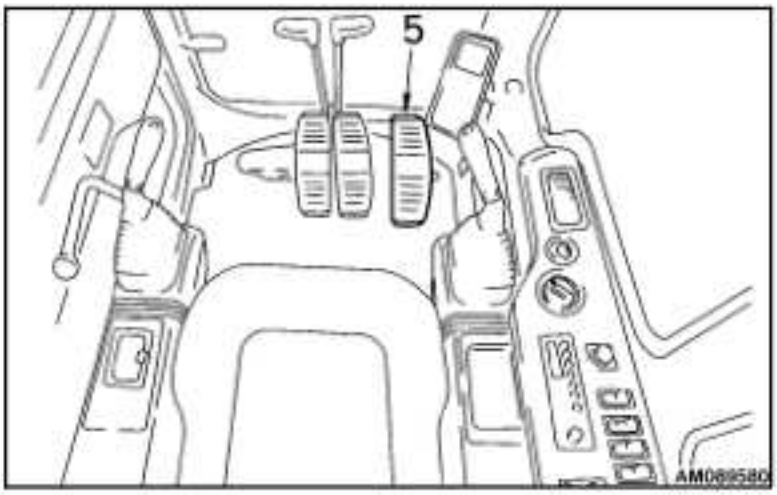
1	NEUTRAL		
	Boom Operation		Bucket Operation
2	BOOM RAISE	4	BUCKET DUMP
3	BOOM LOWER	5	BUCKET CURL

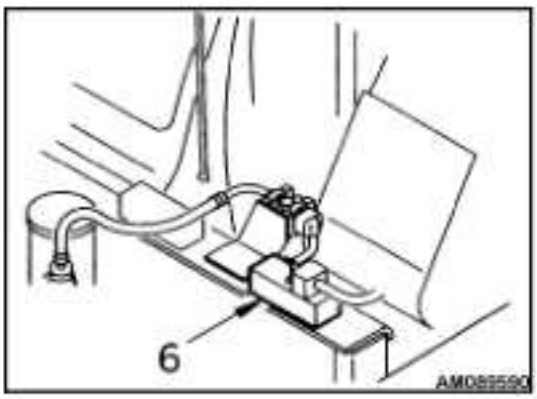
When the lever is in the NEUTRAL (1) position, the boom and the bucket will be retained in the position in which they stop.

For lever position 2, 3, 4 and 5, the engine speed changes as follows because of the auto-deceleration mechanism.

- When the travel levers and work equipment control levers are at neutral, even if the fuel control dial is above the midrange position, the engine speed will drop to a midrange speed. If any of the levers are operated, the engine speed will rise to the speed set by the fuel control dial.
- If all control levers are set to neutral, the engine speed will drop by approx. 100 rpm, and after approx. 4 seconds, the engine speed will drop to the deceleration speed, approx. 1400 rpm.

ATTACHMENT CONTROLS





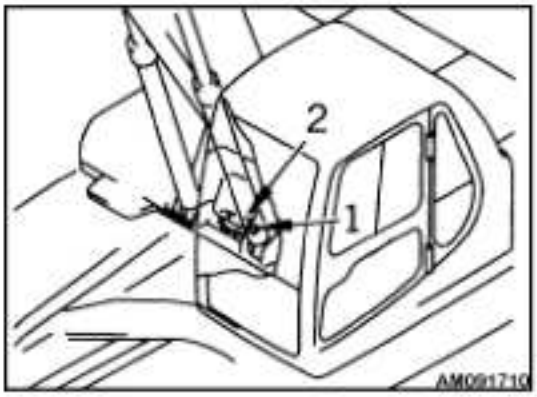
MidWestTech | Komatsu PC270LC-6 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

24.6.2 CHECK SWING PINION GREASE LEVEL, ADD GREASE

1. Remove bolts (1) on the top of the revolving frame and remove cover. Insert a scale into the grease and check that the height of the grease in the portion where the pinion passes is at least 28 mm (1.1 in). Add more grease if necessary.
2. Check if the grease is milky white. If milky white, it is necessary to change the grease. Please contact your distributor. Install cover (2) with bolts (1).

Total grease capacity ..... 33 ℓ (8.7 gal)

Grease weight ..... 29.7 kg (65.5 lb).



MidWestTech | Komatsu PC270LC-6 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

31.2 ATTACHMENT INSTALLATION COMBINATION TABLE

31.2.1 PC270LC-6

This table lists the combination of attachments which can be installed on the different arms.

○: Used with material weight up to 1803 kg/m³ (3040 lb/yd³)

◇: Used with material weight up to 1495 kg/m³ (2520 lb/yd³)

☆: Used with material weight up to 1198 kg/m³ (2020 lb/yd³)

X: Cannot be used

+: Light duty applications only

NOTICE

- When the boom is fully lowered during oblique digging, the boom interferes with the undercarriage. Operate the boom carefully.

Bucket	Capacity	Width	Weight	Number of teeth	Arm			
					2.0m	2.5m	3.05m	3.5m
Standard plate	0.76m³ 1.00yd³	762 mm 30 in	766 kg 1688 lb	4	○	○	○	o
	1.06m³ 1.38yd³	914 mm 36 in	841 kg 1854 lb	5	○	○	○	◇
	1.25m³ 1.63 yd³	1067 mm 42 in	920 kg 2029 lb	5	○+	○+	◇	X
	1.53m³ 2.00 yd³	1219 mm 48 in	981 kg 2162 lb	5	○+	○+	◇	X
Heavy duty plate	0.76m³ 1.00yd³	762 mm 30 in	986 kg 2173 lb	4	○	○	○	o
	1.06m³ 1.38yd³	914 mm 36 in	1079 kg 2378 lb	4	○	○	○	◇
	1.25m³ 1.63 yd³	1067 mm 42 in	1197 kg 2640 lb	5	○+	○+	◇	X
	1.53m³ 2.00 yd³	1219 mm 48 in	1290 kg 2845 lb	5	○+	○+	◇	X
Heavy duty cast	0.76m³ 1.00yd³	762 mm 30 in	1022 kg 2254 lb	4	○	○	○	○
	1.06m³ 1.38yd³	991 mm 39 in	1178 kg 2598 lb	5	○	○	○	◇
	1.24m³ 1.62 yd³	1143 mm 45 in	1269 kg 2797 lb	5	○+	○+	◇	X

MidWestTech | Komatsu PC270LC-6 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >