

Shop Manual

HYDRAULIC
EXCAVATOR

PC800-8E0

PC800LC-8E0

PC800SE-8E0

PC850-8E0

PC850SE-8E0

	PC800-8E0	K55001	
	PC800LC-8E0	K55001	
SERIAL NUMBERS	PC800SE-8E0	K55001	and up
	PC850-8E0	K55001	
	PC850SE-8E0	K55001	

KOMATSU

SHOP MANUAL

HYDRAULIC EXCAVATOR

PC800-8E0

PC850SE-8E0

PC800LC-8E0

PC800SE-8E0

PC850-8E0

Machine model	Serial number	Machine model	Serial number
PC800-8E0	K55001 and up	PC850SE-8E0	K55001 and up
PC800LC-8E0	K55001 and up		
PC800SE-8E0	K55001 and up		
PC850-8E0	K55001 and up		

00 Index and foreword

Table of contents

00 Index and foreword	
Table of contents	00 - 2
Table of contents	00 - 2
Foreword and general information	00- 12
Safety notice	00- 12
How to read the shop manual	00- 17
Explanation of terms for maintenance standard	00- 19
Handling of hydraulic components	00- 21
Method of disconnecting and connecting push-pull type coupler	00- 23
Handling of electric equipment	00- 26
How to read electric wire code	00- 36
Precautions when performing work	00- 39
Standard tightening torque table	00- 42
List of abbreviation	00- 46
Conversion table	00- 50
01 Specification	
Specifications	01- 4
Specifications drawing	01- 4
Specifications	01- 8
Table of weight	01- 18
Table of fuel, coolant and lubricants	01- 26
10 Structure and function	
Engine and cooling system	10- 3
Coupling	10- 3
Coupling lubrication system	10- 4
Cooling system	10- 6
Power train system	10- 8
Power train	10- 8
Swing circle	10- 10
Swing machinery	10- 11
Final drive	10- 13
Undercarriage and frame	10- 14
Track frame	10- 14
Idler cushion	10- 16
Hydraulic system	10- 18
Hydraulic component layout	10- 18
Hydraulic tank and filter	10- 20
Hydraulic pump	10- 22
Pump control system	10- 30
Servo valve	10- 32
Self-pressure reducing valve	10- 41
Cooling fan pump	10- 44
Cooling fan motor	10- 53
Electrical grease pump	10- 59
Control valve	10- 60
Straight-travel valve	10- 69
Swing motor	10- 72
Centre swivel joint	10- 76
Travel motor	10- 77

PPC valve	10- 87
Solenoid valve	10- 95
Accumulator.....	10- 103
Quick return valve.....	10- 104
Return oil filter.....	10- 107
Line oil filter.....	10- 108
Pilot oil filter	10- 109
Drain oil filter.....	10- 110
Electrical system.....	10- 111
Engine control.....	10- 111
Electric control system.....	10- 121
Monitor system	10- 160
Sensors.....	10- 190
KOMTRAX system.....	10- 194
20 Standard value table	
Standard value table	20- 3
Standard value table for engine.....	20- 3
Standard value table for machine	20- 4
30 Testing and adjusting	
Tool for testing, adjusting and troubleshooting	30- 3
Tools for testing, adjusting, and troubleshooting	30- 3
Engine and cooling system.....	30- 7
Testing engine speed	30- 7
Testing intake air pressure (boost pressure)	30- 8
Testing exhaust gas temperature	30- 9
Testing exhaust gas colour.....	30- 10
Adjusting valve clearance	30- 12
Testing compression pressure.....	30- 13
Testing blowby pressure.....	30- 15
Testing engine oil pressure.....	30- 16
Testing EGR valve and bypass valve drive pressure	30- 17
Handling fuel system parts	30- 18
Releasing remaining pressure from fuel system.....	30- 19
Testing fuel pressure	30- 20
Testing fuel return rate and leakage	30- 21
Bleeding air from fuel circuit	30- 24
Testing fuel circuit for leakage.....	30- 26
Testing and adjusting alternator belt tension	30- 27
Testing and adjusting air conditioner compressor belt tension.....	30- 28
Undercarriage and frame.....	30- 29
Testing swing circle bearing clearance	30- 29
Checking and adjusting track tension	30- 30
Hydraulic system	30- 31
Testing and adjusting oil pressure in work equipment, swing, and travel circuits.....	30- 31
Testing and adjusting control circuit oil pressure (output pressure of self-pressure reducing valve)	30- 37
Testing and adjusting control signal of main pump.....	30- 39
Testing PPC valve output pressure	30- 46
Measuring outlet pressure of solenoid valve, swing PPC shuttle valve, and swing priority selector valve	30- 50
Adjusting play of work equipment and swing PPC valves	30- 55
Testing and adjusting travel deviation	30- 56

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$