

Shop Manual

HYDRAULIC
EXCAVATOR

PW118MR-8

SERIAL NUMBERS PW118MR-8 F00003 and up

KOMATSU

HYDRAULIC EXCAVATOR PW118MR-8

Machine model	Serial number
PW118MR-8	F00003 and up

00 Index and foreword

Table of contents

00 Index and foreword

Table of contents.....	2
Foreword and general information	10
Safety notice	10
How to read the shop manual	15
Explanation of terms for maintenance standard	17
Handling of hydraulic components.....	19
Method of disconnecting and connecting push-pull type coupler	21
Handling of electric equipment.....	24
How to read electric wire code.....	34
Precautions when performing work.....	37
Standard tightening torque table.....	40
List of abbreviation.....	44
Conversion table.....	48

01 Specification

Specifications.....	3
Specifications drawing	3
Specifications.....	5
Table of weight.....	8
Table of fuel, coolant and lubricants	10

10 Structure and function

Engine and cooling system	4
Engine mount.....	4
PTO.....	5
Cooling system	6
Power train	8
Power train overview.....	8
Front axle	9
Differential.....	9
Brakes.....	10
Final reduction	11
Steering cylinder	12
Transmission.....	13
Rear axle.....	15
Differential.....	15
Final reduction	16
Steering cylinder	17
Brakes and parking brake cylinder.....	18
Steering system	20
Steering unit.....	24
Priority valve	25
Swing circle.....	26
Swing machinery.....	27
Hydraulic system.....	28
Hydraulic tank and filter	28
Hydraulic pump	30
Blade specification.....	30
Control valve.....	42

Outline	42
11-spool valve.....	43
CLSS	54
Outline of CLSS.....	54
Basic principle.....	55
Function and operation by valve.....	58
PPC valve	75
Work equipment and swing PPC valve.....	75
Travel PPC valve	80
Blade, boom swing, 2-piece boom PPC valves	82
Brakes pump.....	86
Swing motor.....	87
Travel motor.....	93
Swivel joint.....	100
Solenoid valve	102
PPC accumulator.....	107
Holding valve	108
Work equipment.....	113
Work equipment.....	113
Dimensions of components	116
1,850 mm arm.....	116
2,000 mm arm.....	118
2,300 mm arm.....	120
Bucket.....	122
Work equipment cylinder	124
Boom cylinder	124
2-piece boom cylinder.....	124
Arm cylinder.....	124
Bucket cylinder	125
Boom swing cylinder.....	125
Blade/outrigger cylinder.....	125
20 Standard value table	
Standard value table for engine.....	3
Standard value table for chassis.....	4
30 Testing and adjusting	
Testing and adjusting.....	3
Testing engine speed	3
Testing exhaust temperature	4
Checking exhaust gas colour.....	5
Adjusting valve clearance.....	6
Testing compression pressure.....	8
Testing blow-by pressure.....	10
Testing engine oil pressure.....	11
Handling fuel system parts	12
Releasing residual pressure from fuel system.....	12
Testing fuel pressure	13
Testing fuel return rate and fuel leakage	14
Bleeding air from fuel circuit	16
Checking fuel circuit for leakage.....	18
Testing and adjusting alternator belt tension.....	19
Measuring the swing circle axial clearance.....	20

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

<https://shopservicemanual.com/>

Service Manuals from 2\$