

Shop Manual

SKID-STEER
LOADER

SK820-5E0

SERIAL NUMBER SK820-5E0 F60003 and up

KOMATSU

SKID-STEER LOADER SK820-5E0

Machine Model	Serial number
SK820-5E0	F60003 and up

00 Index and foreword

Index

00 Index and foreword

Index	2
Foreword and general information	6
Safety notice	6
How to read the shop manual	11
Explanation of terms for maintenance standard	13
Handling of hydraulic components	15
Method of disconnecting and connecting push-pull type coupler	17
Handling of electric equipment.....	20
How to read electric wire code	30
Precautions when performing work.....	33
Standard tightening torque table	36
List of abbreviation	40
Conversion table	44

01 Specification

Specification.....	4
Dimensions (with bucket).....	4
Dimensions (with pallet forks)	6
Specification.....	8
Table of weight.....	9
Fuel, coolant and lubricants	10

10 Structure, function and maintenance standard

PTO.....	3
Power train.....	5
Transmission.....	6
Final drive	9
Hydraulic pump	16
Control valve (3-spool).....	37
CLSS.....	53
Solenoid valves.....	60
Accumulator	62
R.H. PPC valve	63
L.H. PPC valve.....	68
Cylinders	74
Work equipment.....	76

20 Standard value table

Standard value table	3
Engine.....	3
Machine	4

30 Testing and adjusting

Testing and adjusting.....	3
Special tools.....	3
Checking the engine speed	4
Adjustment of valve clearance	5
Measurement of the compression pressure.....	7
Control and adjustment of the fan belt tension	8
Control and adjustment of the injection timing	9

Checking engine oil pressure	11
Adjusting the stroke of the accelerator cables	12
Regulation of PPC valves' drive pressure.....	15
Adjustment of the PPC valve clearances.....	17
Adjusting the position of the servo-control.....	18
Testing and adjustment of gearing chain tension	19
Control and regulation of the pressures in the hydraulic circuits	20
Testing the hydraulic pump.....	21
Valve calibration	22
Checking the travel deviation.....	24
SSC device (Slow speed control) calibration.....	25
Control valve.....	26
Control and regulation of the servo-control power supply.....	28
Elimination of residual pressures - pressurisation of the tank.....	30
Bleeding air from the hydraulic circuits	31
50 Disassembly and assembly	
How to read the manual.....	3
Coating materials list	5
Removal and installation of engine hood	6
Tilting and lowering of cab	7
Removal and installation of battery.....	10
Removal and installation of starting motor.....	11
Removal and installation of alternator	12
Removal and installation of muffler.....	13
Removal and installation of turbocharger	14
Removal and installation of air intake filter	15
Removal and installation of valve cover	16
Removal and installation of nozzle holder	17
Removal and installation of injection pump	18
Removal and installation of cylinder head	21
Removal and installation of coolant liquid pump.....	23
Removal and installation of radiator group	24
Removal and installation of fuel tank	26
Removal and installation of cab	28
Removal and installation of engine-pump group	32
Removal and installation of hydraulic pump assembly	35
Removal and installation of gear pump	37
Removal and installation of engine-pump coupling	38
Removal and installation of control valve	39
Removal and installation of PPC valve.....	40
Removal and installation of hub wheel	41
Removal and installation of final drive	45
Removal and installation of lift cylinder.....	46
Removal and installation of bucket cylinder.....	48
Disassembly and assembly of work equipment cylinders.....	50
Removal and installation work equipment assembly	55
Removal and installation of fulcrum lever	57
Removal and installation of lift lever	58
Removal and installation of equipment support frame.....	60
90 Diagrams and drawings	
Hydraulic diagrams	3
Hydraulic diagram (float).....	3

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

<https://shopservicemanual.com/>

Service Manuals from 2\$