KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

K916 II

K916LC II

S7PO00404ZE01 NA

Issued: 01 July 07

APPLICABLE:

SK15SR-3/SK17SR-3	
CX17B/E18SR	PU08-05001~
SK20SR	PM08-08501~08843
	PM09-09001~
SK40SR-3	PH06-05001~
SK50SR-3/CX50B/E50SR	PJ05-06001~
SK55SR-3/CX55B	PJ05-06001~
SK27SR-3/CX27B/E27SR	PV11-30001~03093
	PV12-31001~
SK30SR-3/CX31B/E30SR	PW12-40001~140747
	PW13-42001~
SK35SR-3/CX36B/E35SR	PX13-15001~15716
	PX14-17001

MidWestTech | Kobelco K916 II, K916LC II Hydraulic Excavator Service Manual | Publication S7PO00404ZE01

Order the manual at mid-west-tech.com >

1. MACHINE SPECIFICATIONS

1.1 GENERAL DIMENSIONS 1-2
1.1.1 CANOPY 1-2
1.1.2 CANOPY 1-4
1.1.3 CAB 1-6
1.1.4 CAB 1-8
1.2 SPECIFICATIONS AND PERFORMANCE 1-10
1.3 ENGINE SPECIFICATIONS 1-16
1.3.1 SPECIFICATIONS 1-16
1.3.2 ENGINE PERFORMANCE CURVE 1-17
1.3.3 SPECIFICATIONS 1-18
1.3.4 ENGINE PERFORMANCE CURVE 1-19
1.3.5 SPECIFICATIONS 1-20
1.3.6 ENGINE PERFORMANCE CURVE 1-21
1.3.7 SPECIFICATIONS 1-22
1.3.8 ENGINE PERFORMANCE CURVE 1-23
1.4 HYDRAULIC COMPONENTS 1-24
1.4.1 SPECIFICATIONS 1-24
1.4.2 SPECIFICATIONS 1-26
1.4.3 SPECIFICATIONS 1-28
1.4.4 SPECIFICATIONS 1-30
1.5 MACHINE & COMPONENTS WEIGHT 1-32
1.6 WORKING RANGES 1-39
1.6.1 CANOPY TYPE 1-39
1.6.2 CANOPY TYPE 1-40
1.6.3 CAB TYPE 1-41
1.6.4 CANOPY TYPE 1-42
1.6.5 CAB TYPE 1-43
1.6.6 CANOPY TYPE 1-44
1.6.7 CAB TYPE 1-45
1.6.8 CANOPY TYPE 1-46
1.6.9 CAB TYPE 1-47
1.6.10 CANOPY TYPE 1-48
1.6.11 CAB TYPE 1-49
1.6.12 CANOPY TYPE 1-50
1.6.13 CAB TYPE 1-51
1.7 LIFTING DIAGRAM 1-52
1.8 PERFORMANCE TABLE 1-64

2. MAINTENANCE

2.1 DESIGNATED OIL AND GREASE, AND FILTER ELEMENT 2-2
2.1.1 GREASE AND OIL LIST 2-2
2.1.2 GREASE AND OIL LIST 2-3
2.1.3 GREASE AND OIL LIST 2-4
2.1.4 FILTERS & ELEMENTS, AND BUCKET 2-5
2.1.5 FILTERS & ELEMENTS, AND BUCKET 2-6
2.1.6 FILTERS & ELEMENTS, AND BUCKET 2-7

MidWestTech | Kobelco K916 II, K916LC II Hydraulic Excavator Se... Order the manual at mid-west-tech.com >

2.1.7 FILTERS & ELEMENTS, AND BUCKET 2-8
2.2 MAINTENANCE STANDARDS AND TEST PROCEDURES 2-10
2.2.1 STANDARD VALUE TABLE 2-10
2.2.2 STANDARD VALUE TABLE 2-12
2.2.3 STANDARD VALUE TABLE 2-14
2.2.4 STANDARD VALUE TABLE 2-16
2.2.5 MEASURING ENGINE SPEED 2-18
2.2.6 MEASURING HYDRAULIC OIL PRESSURE 2-23
2.2.7 MEASURING TRAVEL PERFORMANCES (ALL MODELS) 2-37
2.2.8 MEASURING SLEW PERFORMANCES (ALL MODELS) 2-39
2.2.9 MEASURING ATTACHMENT OPERATING PERFORMANCES (ALL MODELS) 2-41
2.2.10 MEASURING SLEW BEARING PERFORMANCES (ALL MODELS) 2-43
2.2.11 MEASURING CRAWLER TENSION (ALL MODELS) 2-44
2.3 ATTACHMENT MAINTENANCE STANDARD 2-46
2.3.1 CLEARANCE OF PIN AND BUSHING 2-46
2.3.2 CLEARANCE IN THRUST DIRECTION ON BOOM AND CYLINDER INSTALLATION SECTION 2-57
2.3.3 CLEARANCE IN THRUST DIRECTION ON ARM AND CYLINDER INSTALLATION SECTION 2-60
2.3.4 CLEARANCE IN THRUST DIRECTION ON THE DOZER AND CYLINDER INSTALLATION SECTION 2-65
2.3.5 CLEARANCE IN THRUST DIRECTION ON SWING BRACKET AND CYLINDER INSTALLATION SECTION 2-68
2.4 UNDERCARRIAGE 2-71
2.4.1 RUBBER CRAWLER 2-71
2.4.2 STEEL CRAWLER (SK17SR-3, CX17B, E18SR, SK15SR-3) 2-72
2.4.3 STEEL CRAWLER (SK20SR-3 / SK27SR-3, CX27B, E27SR / SK30SR-3, CX31B, E30SR / SK35SR-3, CX36B, E35SR) 2-73
2.4.4 STEEL CRAWLER (SK40SR-3 / SK50SR-3, CX50B, E50SR , SK55SR-3, CX55B) 2-74
2.4.5 UPPER ROLLER (SK20SR-3 / SK27SR-3, CX27B, E27SR / SK30SR-3, CX31B, E30SR / SK35SR-3, CX36B, E35SR) 2-75
2.4.6 UPPER ROLLER (SK40SR-3 / SK50SR-3, CX50B, E50SR , SK55SR-3, CX55B) 2-76
2.4.7 LOWER ROLLER (SK17SR-3, CX17B, E18SR, SK15SR-3) 2-77
2.4.8 LOWER ROLLER (SK20SR-3 / SK27SR-3, CX27B, E27SR / SK30SR-3, CX31B, E30SR / SK35SR-3, CX36B, E35SR) 2-78
2.4.9 LOWER ROLLER (SK40SR-3 / SK50SR-3, CX50B, E50SR , SK55SR-3, CX55B) 2-79
2.4.10 FRONT IDLER (SK17SR-3, CX17B, E18SR, SK15SR-3) 2-80
2.4.11 FRONT IDLER (SK20SR-3 / SK27SR-3, CX27B, E27SR) 2-81
2.4.12 FRONT IDLER (SK30SR-3, CX31B, E30SR / SK35SR-3, CX36B, E35SR) 2-82
2.4.13 FRONT IDLER (SK40SR-3 / SK50SR-3, CX50B, E50SR , SK55SR-3, CX55B) 2-83
2.4.14 IDLER ADJUSTER (SK17SR-3, CX17B, E18SR, SK15SR-3) 2-84

MidWestTech | Kobelco K916 II, K916LC II Hydraulic Excavator Se... Order the manual at mid-west-tech.com >

2.4.15 IDLER ADJUSTER
(SK20SR-3 / SK27SR-3, CX27B, E27SR) 2-84
2.4.16 IDLER ADJUSTER
(SK30SR-3, CX31B, E30SR / SK35SR-3, CX36B, E35SR) 2-85
2.4.17 IDLER ADJUSTER
(SK40SR-3 / SK50SR-3, CX50B, E50SR , SK55SR-3, CX55B) 2-85
2.4.18 SPROCKET 2-86

3. CIRCUIT DIAGRAM

3.1 HYDRAULIC CIRCUITS 3-2
3.1.1 STANDARD 3-2
3.1.2 STANDARD 3-4
3.1.3 STANDARD 3-6
3.1.4 STANDARD 3-12
3.1.5 STANDARD 3-14
3.1.6 STANDARD 3-16
3.1.7 STANDARD 3-18
3.1.8 STANDARD 3-20
3.1.9 STANDARD 3-22
3.1.10 STANDARD 3-24
3.1.11 STANDARD 3-26
3.1.12 STANDARD 3-28
3.2 ELECTRIC CIRCUIT DIAGRAM 3-30

4. ATTACHMENT DIMENSIONS

4.1 BOOM 4-2
4.1.1 BOOM DIMENSIONAL DRAWING 4-2
4.2 ARM 4-4
4.2.1 ARM DIMENSIONAL DRAWING 4-4
4.3 BUCKET 4-6
4.3.1 BUCKET DIMENSIONAL DRAWING 4-6
4.3.2 LUG SECTION DIMENSIONAL DRAWING 4-8
4.3.3 BOSS SECTION DIMENSIONAL DRAWING 4-9
4.4 DOZER 4-10
4.4.1 DOZER DIMENSIONAL DRAWING 4-10
4.4.2 DOZER DIMENSIONAL DRAWING 4-12
4.5 SWING 4-14
4.5.1 SWING BRACKET DIMENSIONAL DRAWING 4-14
4.6 CYLINDER 4-16
4.6.1 HYDRAULIC CYLINDER 4-16
4.7 SHAPE AND DIMENSIONS OF PIN 4-20
4.7.1 SHAPE OF PIN 4-21
4.7.2 DIMENSIONS OF PIN 4-23
4.8 SHAPE AND DIMENSIONS OF BUSHING 4-25
4.8.1 SHAPE OF BUSHING 4-26

MidWestTech | Kobelco K916 II, K916LC II Hydraulic Excavator Se... Order the manual at mid-west-tech.com >