

WSM

WORKSHOP MANUAL

G1700, G1800, G1900, G2000

Kubota

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA G1700, G1800, G1900, G2000. It is divided into two parts, "Mechanism" and "Disassembling and Servicing".

■ Mechanism

Information on the construction and function are included in this section. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

■ Disassembling and Servicing

Under the heading "General" comes general precautions, check and maintenance and special tools. For each section, there are troubleshooting, servicing specification lists, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication.

The right is reserved to make changes in all information at any time without notice.

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Record of Revisions

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Last digit of the Code No.	Issue month	Main Revised Point and Corrective Measures {Search word}	Reference Page
6	2017.12	Correction of errors	S.G-1, G-1

SPECIFICATIONS

Model			G1700		G1800	
			2WS	4WS	2WS	4WS
Engine	Model	D662-L			D662	
	Type	Vertical, liquid cooled, 4-cycle, diesel				
	Gross power	11.1 kW / 3200 rpm (15 HP / 3200 rpm)			11.9 kW / 3200 rpm (16 HP / 3200 rpm)	
	Number of cylinders	3				
	Bore and stroke	64 mm × 68 mm (2.52 in. × 2.68 in.)				
	Total displacement	655 cm ³ (40.03 cu.in.)				
	Rated engine speed	3200 rpm				
	Combustion chamber	NTVCS				
	Fuel injection pump	Bosch MD mini pump				
	Governor	Centrifugal ball mechanical governor				
	Injection nozzle	Throttle type (DN4PD62)				
	Injection timing	0.33 to 0.37 rad. (19 to 21°) before T.D.C.				
	Injection pressure	13.73 MPa (140 kgf/cm ² , 1991 psi)				
	Direction of rotation	Counterclockwise (viewed from flywheel)				
	Compression ratio	23 : 1				
	Lubricating system	Forced lubrication by trochoid pump				
	Cooling system	Pressurized radiator, forced circulation with water pump				
	Starting system	Electric starter (12 V, 1.0 kW / 0.8 kW)				
	Charging system	AC dynamo (12 V, 150 W) or alternator (12 V, 480 W)			AC dynamo (12 V, 150 W)	
	Battery	12 V, 45 AH				
	Engine stop system	Key stop				
	Weight (Dry)	73.7 kg (162.5 lbs) [includes radiator, air cleaner and muffler]				
Capacities	Fuel tank	19 ℓ (5.0 U.S.gals., 4.2 Imp.gals.)				
	Engine crankcase	3.0 ℓ (3.2 U.S.qts., 2.64 Imp.qts.)				
	Transmission case	5.7 ℓ (6.0 U.S.qts., 5.02 Imp.qts.)				
	Radiator	3.3 ℓ (3.5 U.S.qts., 2.90 Imp.qts.)				
Dimensions	Overall length	1865 mm (73.4 in.)				
	Overall width	960 mm (37.8 in.)	1034 mm (40.7 in.)	960 mm (37.8 in.)	1034 mm (40.7 in.)	
	Overall height	1110 mm (43.7 in.)				
	Wheel base	1270 mm (50.0 in.)				
	Tread	Front	740 mm (29.1 in.)			
		Rear	695 mm (27.4 in.)	820 mm (32.3 in.)	695 mm (27.4 in.)	820 mm (32.3 in.)
	Min. ground clearance	150 mm (5.9 in.)	105 mm (4.1 in.)	150 mm (5.9 in.)	105 mm (4.1 in.)	
Weight (with mower)		320 kg (705.5 lbs)	340 kg (749.6 lbs)	320 kg (705.5 lbs)	340 kg (749.6 lbs)	
Tire size	Front	16 × 6.50 - 8				
	Rear	23 × 10.50 - 12	23 × 8.50 - 12	23 × 10.50 - 12	23 × 8.50 - 12	
Steering system		Manual				
Transmission		Hydrostatic transmission				
Brake		Internal expanding shoe type				
Traveling speed	Forward	0 to 13.0 km / h (0 to 8.1 mph)				
	Reverse	0 to 6.0 km / h (0 to 3.7 mph)				
Mower drive system		Shaft drive				
Mower clutch type		Belt tension				
Mower PTO brake		Shoe type				
Mower lift system		Hydraulic				

Model			G1900		G2000	
			2WS	4WS	2WS	4WS
Engine	Model	D722			WG750-G	
	Type	Vertical, liquid cooled, 4-cycle, diesel			Vertical, liquid cooled, 4-cycle, gasoline	
	Gross power	13.4 kW / 3200 rpm (18 HP / 3200 rpm)			15.7 kW / 3200 rpm (21 HP / 3200 rpm)	
	Number of cylinders	3				
	Bore and stroke	67 mm × 68 mm (2.64 in. × 2.68 in.)			68 mm × 68 mm (2.68 in. × 2.68 in.)	
	Total displacement	719 cm ³ (43.88 cu.in.)			740 cm ³ (45.16 cu.in.)	
	Rated engine speed	3200 rpm				
	Combustion chamber	NTVCS			-	
	Fuel injection pump	Bosch MD mini pump			-	
	Governor	Centrifugal ball mechanical governor				
	Injection nozzle	Throttle type (DN4PD62)			-	
	Injection timing	0.33 to 0.37 rad. (19 to 21°) before T.D.C.			-	
	Injection pressure	13.73 MPa (140 kgf/cm ² , 1991 psi)			-	
	Ignition system	-			Full-transistor	
	Carburetor	-			Butterfly valves	
	Spark plug	-			BCP6ES11	
	Ignition timing	-			0.35 rad. (20°) before T.D.C.	
	Direction of rotation	Counterclockwise (viewed from flywheel)				
	Compression ratio	23 : 1			9 : 1	
	Lubricating system	Forced lubrication by trochoid pump				
	Cooling system	Pressurized radiator, forced circulation with water pump				
	Starting system	Electric starter (12 V, 1.0 kW / 0.8 kW)			Electric starter (12 V, 0.7 kW)	
	Charging system	AC dynamo (12 V, 150 W) or alternator (12 V, 480 W)			AC dynamo (12 V, 150 W)	
	Battery	12 V, 45 AH			12 V, 35 AH	
	Engine stop system	Key stop				
	Weight (Dry)	73.0 kg (161.0 lbs) [includes radiator, air cleaner and muffler]			61.7 kg (136.0 lbs) [includes radiator, air cleaner and muffler]	
Capacities	Fuel tank	19 ℓ (5.0 U.S.gals., 4.2 Imp.gals.)				
	Engine crankcase	3.0 ℓ (3.2 U.S.qts., 2.64 Imp.qts.)				
	Transmission case	5.7 ℓ (6.0 U.S.qts., 5.02 Imp.qts.)				
	Radiator	3.3 ℓ (3.5 U.S.qts., 2.90 Imp.qts.)				
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Mower drive system		Shaft drive				
Mower clutch type		Belt tension				
Mower PTO brake		Shoe type				
Mower lift system		Hydraulic				

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