

APRIL 2016

# SPECIFICATION SHEET

ENGINE MODEL : ***V2203-E2BG***

ENGINE CODE NUMBER: ***1G985-12000***

DIMENSION DRAWING NUMBER:

KUBOTA CORPORATION

ITEMS	UNIT	SPECIFICATIONS
Engine Model		V2203-E2BG
Engine Code Number		1G985-12000
Type		Vertical, water-cooled, 4-cycle diesel engine
Number of cylinder		4
Cylinder Bore	mm	87
Stroke	mm	92.4
Combustion type		Spherical Type (E-TVCS)
Total Displacement	L	2.197
Brake Horse Power (Stand-by )	kW/rpm (PS/rpm)	26.9/1800 (36.5/1800) / 20.1/1500(27.3/1500)
Brake Horse Power (Continuous )	kW/rpm (PS/rpm)	20.2 /1800 (27.5/1800) / 17.2/1500(23.4/1500)
Firing Order		1-3-4-2
Direction of Rotation		Counter-Clockwise (Viewed from Flywheel Side)
Injection Pump		Bosch Type
Fuel Injection Pressure	MPa (kgf/cm <sup>2</sup> )	13.73 (140)
Fuel Injection Timing	deg.	17.0 Before T.D.C (p)
Compression Ratio		23.0
Governor Type		All Speed Mechanical Governor
Fuel Oil		Diesel Fuel No.2-D(ASTMD975)
Starting System		Starter (with glow plug)
Starter Output	V-kW	12 - 1.4

ITEMS	UNIT	SPECIFICATIONS
Alternator Output	V - A	12 - 40
Cooling System		Pressurized Radiator, Forced Circulation with water pump
Lubricating System		Forced Lubricating by Trochoid Pump
Lubrication Oil		Class CF lubricating oil as per API classification is recommended
Lub.Oil Capacity	L	9.7
Dimensions (L x W x H)	mm	703.4 × 548.3 × 633.3
Ship Loose parts	kPa(mmAq)	≤ 1.96 (200)
Back Pressure	kPa(mmHg)	≤ 7.07 (53)
Ho(Heat Rejection to coolant)	kcal/h	21,600
Combustion Air Requirements ( 25°C and 750mmHg)	m <sup>3</sup> /min	1.72
Exhaust Gas Volume ( 25°C and 750mmHg)	m <sup>3</sup> /min	5.07
Dry Weight	kg	Approx.180

※Lubrication Oil is not filled for engine delivery.

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## ENGINE PARTS LIST V2203-E2BG 1G985-12000

PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Crank Case	16665-0112△	1	
Oil Pan	15434-0161△	1	Depth 90mm
Gear Case,Assy	17182-0401△	1	Oil Filter Cartridge : Inlet Side
Water Pump Assy.	15521-7303△	1	
Inlet Manifold	17114-1176△	1	Horizaontal Inlet (Closed Breather Type)
Exhaust Manifold	1G896-1231△	1	Up Outlet
Head Cover Assy.	1G790-1450△	1	Closed Breather Type
Flywheel	17158-2511△	1	SAE 7-1/2 (Short)
Flywheel Housing	17158-0461△	1	SAE 4 (Short)
Oil Filter Cartridge	16414-3243△	1	φ93xL85
Oil Gauge	1G622-3641△	1	Inlet side
Oil Gauge Guide	17456-3642△	1	Short oil gauge guide
Starter	17381-6301△	1	12V - 1.4kW
Alternator	34070-7560△	1	12V - 40A
Glow Plug	19077-6551△	4	Quick Heating Type (DC 11V,)
Stop Solenoid	15471-6001△	1	
Water Flange	19202-7291△	1	Rp1/2
Thermostat	19434-7301△	1	71°C (Opening Temp. )
Thermostat cover	15321-7326△	1	Up Outlet
Fan Spacer	19818-7415△	1	12mm
Fan	17371-7411△	1	Φ380mm 6 blades, Pusher

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PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Fan Pulley	15471-7425△	1	Φ104mm
Fan Drive Pulley	15192-7428△	1	Φ130mm
Fan Belt	15469-9701△	1	41.5"
Oil Pressure Switch	15841-3901△	1	0.5kgf/cm2
Water Temp. Sensor	-	-	
Ship Loose parts			
Operator's Manual	1K312-8911△	1	
Warranty Statement	1G511-8981△	1	
Timer (Grow Lamp)	15694-6599△	1	
Coupler Assy.	19883-6583△	1	For Timer(Glow Lamp)
Indicator Lamp	15403-6449△	1	
Terminal Assy	19268-6578△	1	For Indicator Lamp
Terminal	19215-6375△	2	For Starter
Muffler Gasket	17326-1223△	1	
TIMER,KEY STOP	T0070-3141△	1	
Coupler Assy.	16645-6583△	1	
Sedimenter,Assy	1G311-4335△	1	
ASSY FILTER,FUEL	1C011-4301△	1	
SCREW,AIR BREEDER	15841-5136△	1	
PACKING	15601-9665△	1	

JOINT,T-PIPE	1G065-4236△	1	
VALVE,FUEL CHECK	1C010-4246△	1	
CLIP,PIPE	14971-4275△	8	