

APRIL 2016

# SPECIFICATION SHEET

ENGINE MODEL : ***V1505-E2BG***

ENGINE CODE NUMBER : ***1G964-14000***

DIMENSION DRAWING NUMBER : ***1G964-14000***

KUBOTA CORPORATION

ITEMS	UNIT	SPECIFICATIONS
Engine Model		V1505-E2BG
Engine Code Number		1G964-14000
Type		Vertical, water-cooled, 4-cycle diesel engine
Number of cylinder		4
Cylinder Bore	mm	78
Stroke	mm	78.4
Combustion type		Spherical Type (E-TVCS)
Total Displacement	L	1.498
Brake Horse Power (Stand-by )	kW/rpm (PS/rpm)	15.1/1800 (20.5/1800) , 12.5/1500 (17.0/1500)
Brake Horse Power (Continuous )	kW/rpm (PS/rpm)	13.4 /1800 (18.2/1800) , 11.1/1500 (15.1/1500)
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.	17.5 Before T.D.C (p)
Compression Ratio		24.0
Governor Type		All Speed Mechanical Governor
Fuel Oil		Diesel Fuel No.2-D(ASTM D975)
Starting System		Starter (with glow plug)
Starter Output	V-kW	12 - 1.2
Alternator Output	V - A	12 - 30
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	6.7
Dimensions (L x W x H)	mm	636.8 × 392.3 × 607.1
Intake Resistance	kPa(mmAq)	≤ 1.96 (200)
Back Pressure	kPa(mmHg)	≤ 7.07 (53)
Ho(Heat Rejection to coolant)	kcal/h	15,360
Combustion Air Requirements ( 25°C and 750mmHg)	m <sup>3</sup> /min	1.17
Exhaust Gas Volume ( 25°C and 750mmHg)	m <sup>3</sup> /min	2.84
Dry Weight	kg	Approx. 106

※Lubrication Oil is not filled for engine delivery.

## ENGINE PARTS LIST V1505-E2BG 1G964-14000

PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Crank Case	1G089-0111△	1	
Oil Pan	16616-0150△	1	130mm
Gear Case,Assy	16239-0401△	1	Oil Filter Cartridge : Inlet Side
Water Pump Assy.	16251-7303△	1	
Inlet Manifold	16259-1176△	1	Horizontal Inlet (Closed Breather Type)
Exhaust Manifold	16616-1231△	1	Horizontal Outlet
Head Cover Assy.	1G072-1450△	1	Closed Breather Type
Flywheel	16685-2511△	1	SAE 6-1/2 (Short)
Flywheel Housing	16683-0461△	1	SAE 5 (Short)
Oil Filter Cartridge	16271-3209△	1	φ 80 × L100
Oil Gauge	16259-3641△	1	Inlet side
Oil Gauge Guide	-	-	
Starter	16285-6301△	1	12V - 1.2kW
Alternator	16231-6401△	1	12V - 30A
Stay,Dynamo	16241-64422	1	
Glow Plug	16281-6551△	3	Quick Heating Type (DC 11V, 1.5Ω)
Stop Solenoid	17208-6001△	1	DC 12V, Energized to run
Water Flange	16613-7291△	1	3/8-18NPSF(×2)
Thermostat	19434-7301△	1	71°C (Opening Temp. )
Thermostat cover	16219-7326△	1	Up Outlet
Fan Spacer	15876-7415△	1	10mm
Fan	16299-7411△	1	Φ370mm 6 blades, Pusher
Fan Pulley	16241-7425△	1	Φ96mm
Fan Drive Pulley	16271-7428△	1	Φ112mm
Fan Belt	16282-9701△	1	37.5"
Oil Pressure Switch	15841-3901△	1	0.5kgf/cm2
Water Temp. Sensor	-	-	
Ship Loose parts			
Operator's Manual	1K531-8911△	1	
Warranty Statement	1G511-8981△	1	
Timer(Glow lamp)	15694-6599△	1	
Coupler Assy.	19883-6583△	1	For Timer (Grow Lamp),Alternator
Lamp,Indicator	15403-6449△	1	
Terminal Assy	19268-6578△	1	For Lamp,Indicator
Coupler Assy.	1C010-6583△	1	For Stop solenoid
Coupler Assy.	19215-6375△	1	For Starter
Muffler Gasket	15263-1237△	1	
Bolt	01123-5082△	4	
Sedimenter,Assy	1G311-4335△	1	
Fuel Filter Assy	15224-4301△	1	
Fuel Valve Check	1C010-4246△	1	
Pipe Clip	14971-42751	4	