

APRIL 2016

SPECIFICATION SHEET

ENGINE MODEL : ***D1703-E2BG***

ENGINE CODE NUMBER: ***1G982-12000***

DIMENSION DRAWING NUMBER:

KUBOTA CORPORATION

ITEMS	UNIT	SPECIFICATIONS
Engine Model		D1703-E2BG
Engine Code Number		1G982-12000
Type		Vertical, water-cooled, 4-cycle diesel engine
Number of cylinder		3
Cylinder Bore	mm	87
Stroke	mm	92.4
Combustion type		Spherical Type (E-TVCS)
Total Displacement	L	1.647
Brake Horse Power (Stand-by)	kW/rpm (PS/rpm)	18.1/1800 (24.6/1800) / 15.1/1500(20.5/1500)
Brake Horse Power (Continuous)	kW/rpm (PS/rpm)	15.0 /1800 (20.4/1800) / 12.8/1500(17.4/1500)
Firing Order		1-2-3
Direction of Rotation		Counter-Clockwise (Viewed from Flywheel Side)
Injection Pump		Bosch Type
Fuel Injection Pressure	MPa (kgf/cm ²)	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(ASTM D975)
Starting System		Cell Starter (with glow plug)
Starter Output	V-kW	12 - 1.4
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	7.6
Dimensions (L x W x H)	mm	608.4×548.3×642.8
Intake Resistance	kPa(mmAq)	≤ 1.96 (200)
Back Pressure	kPa(mmHg)	≤ 7.07 (53)
Ho(Heat Rejection to coolant)	kcal/h	14500 (1500rpm) , 16600 (1800rpm)
Combustion Air Requirements (25°C and 750mmHg)	m ³ /min	1.08 (1500rpm) , 1.29 (1800rpm)
Exhaust Gas Volume (25°C and 750mmHg)	m ³ /min	2.91 (1500rpm) , 3.48 (1800rpm)
Dry Weight	kg	148.00

※Lubrication Oil is not filled for engine delivery.

ENGINE PARTS LIST D1703-E2BG 1G982-12000

PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Crank Case	16448-01017	1	with Drain cock:15575-73101
Oil Gauge Guide	17456-36422	1	Short oil gauge guide
Oil Pan	19299-01616	1	
Gear Case	17182-04012	1	Oil Filter Cartridge : Inlet Side
Inlet Manifold	17182-11762	1	Horizontal Inlet (Closed Breather Type)
Exhaust Manifold	1G866-12311	1	Up Outlet
Head Cover Assy.	1G750-14507	1	Closed Breather Type
Flywheel Comp	17299-25017	1	
Flywheel Housing	17158-04611	1	
Oil Filter Cartridge	16414-32434	1	φ 93 × L85
Oil Gauge	1G622-36414	1	Inlet side
Injection Pump Assy	1G626-51012	1	
Assy Pump, Fuel	17121-52032	1	Mechanical Fuel Feed Pump
Nozzle Holder Assy	16082-53002	3	
Starter	17381-63015	1	12V - 1.4kW
Alternator	34070-75602	1	12V - 40A
Stay, Dynamo	16427-64421	1	
Glow Plug	19077-65513	3	Quick Heating Type (DC 11V)
Stop Solenoid	15471-60012	1	
Water Flange Comp	19202-72704	1	Rp1/2
Water Pump Assy.	15521-73038	1	
Thermostat	19434-73014	1	71°C (Opening Temp.)
Thermostat cover	15321-73262	1	Up Outlet
Fan Spacer	19818-74152	1	12mm
Fan	17371-74112	1	Φ 380mm 6 blades, Pusher
Fan Pulley	15471-74252	1	φ 104
Fan Drive Pulley	17298-74281	1	φ 130
Fan Belt	15469-97012	1	41.5"
Oil Pressure Switch	15841-39012	1	0.5kgf/cm ²
Water Temp. Sensor	-	-	-
Ship Loose parts			
Operator's Manual	1G550-89111	1	
Timer(Glow lamp)	15694-65992	1	
Coupler Assy.	19883-65831	1	For Timer (Grow Lamp),Alternator
Indicator Lamp	15403-64491	1	
Terminal Assy	19268-65781	1	For Lamp,Indicator
Terminal	19215-63751	2	For Starter
Muffler Gasket	17326-12231	1	
TIMER,KEY STOP	T0070-31411	1	
Coupler Assy.	16645-65831	1	

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PART NAME	PART NUMBER	Q'ty	DESCRIPTION
Sedimenter, Assy	1G311-43352	1	
ASSY FILTER, FUEL	1C011-43014	1	
SCREW, AIR BREEDER	15841-51362	1	
PACKING	15601-96651	1	
JOINT, T-PIPE	1G065-42361	1	
VALVE, FUEL CHECK	1C010-42461	1	
CLIP, PIPE	14971-42751	8	