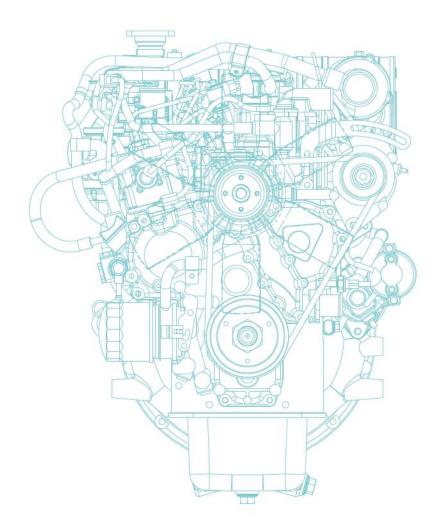


Generator Engine

and

Generator Engine Power Packs



D1105-BG2-SAE-2

D1105-BG1-SAE-2 17592-11000 mech. controlled



Model	Stand-by	Continuous	Stand-by	Continuous
	(SAE J1349)	(SAE J1349)	(SAE J1349)	(SAE J1349)
	50 Hz 1500 rpm	50 Hz 1500 rpm	60 Hz 1800 rpm	60 Hz 1800 rpm
	kW (HP)	kW (HP)	kW (HP)	kW (HP)
D1105-BG2	9.5 (12.7)	8.4 (11.3)	-	-

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D1105-BG2-SAE-2 Power Pack

Technical specification

Model		D1105-BG		
Number of Cylinders		3		
Туре		Vertical, Water-cooled, 4 cycle diesel engine		
Bore × Stroke	mm (in.)		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Total Displacement cm	13 (cu.in.)			
	n-1 (rpm) n-1 (rpm)	9.5 / 1500 12.7 / 1500	11.5 / 1800 15.4 / 1800	
SAE J-1349 HP/mi	n-1 (rpm) n-1 (rpm)	8.4 / 1500 11.3 / 1500	10.1 / 1800 13.5 / 1800	
Governor Regulation		Less the		
Combustion Chamber Type		Spherical type (E-T.V.C.S. : Three	· · · · · · · · · · · · · · · · · · ·	
Fuel Injection Pump Type		PF		
Governor		Mechanical all speed gove		
Direction of Rotation		Counter-clockwise (view		
Nozzle Type		Throttle		
Injection Timing		\$ •	.50 °) before T.D.C.	
Firing Order		1-2-3		
Injection Pressure		13.73 MPa (140.0 kgf/cm2, 1991 psi)		
Compression Ratio		24.0 : 1		
Lubricating System		Forced lubrication by trochoid pump		
Oil Pressure Indication		Electrical type switch		
Lubricating Filter		Full flow paper filter (Cartridge type)		
Cooling System		Pressurized radiator, forced circulation with water pump		
Starting System		Electric Starting with Starter		
Starting Motor		12 V, 1.0 kW		
Starting Support Device		By glow plug in combustion chamber		
EGR		NONE		
Battery		12 V, 65 AH, equivalent		
Charging Alternator		12 V, 360 W		
Fuel		Diesel Fuel No. 2-D (ASTM D975)		
Lubricating Oil (API Classific	ation)	CF or other applicable grade		
Lubricating Oil Capacity		5.1 L (1.3 U.S.gals)		
Weight (Dry)	kg (lbs)	110 (242)	
Installation data		1500 rpm (50 Hz)	1800 rpm (60 Hz)	
Heat rejection	kcal/hr	9930	-	
Exhaust gas volume	m³/hr	99.9	-	
Combustion air requirement	m³/hr	44.0	-	
Water pump	l/min	31	-	
Fan pulley	mm	98	8	
Fan drive pulley	mm	112		
Pulley ratio		0.875		
1) Specifications are subject to change with				

1) Specifications are subject to change without notice.

2) Dry weight is according to KUBOTA's standard specification.

When specification varies, the weight will vary accordingly.

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2-47, Shikitsuhigashi 1-chome, Naniwa-ku, Osaka, 556-8601 Japan Fax: 06-6648-3521 http://engine.kubota.co.jp 3) Recommended Coolant Capacity : With radiator.

4) Lubricating oil capacity : With oil filter cartridge.

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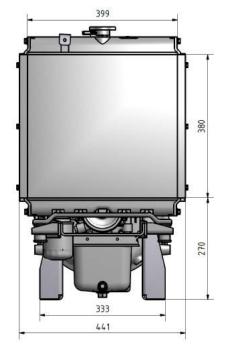
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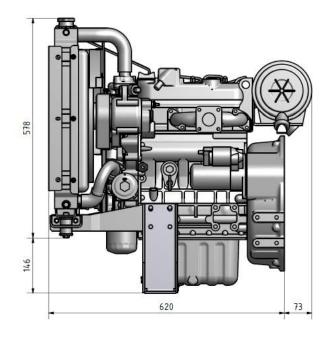
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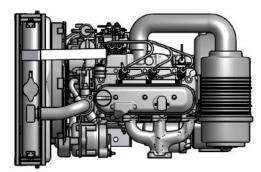
FRONT VIEW



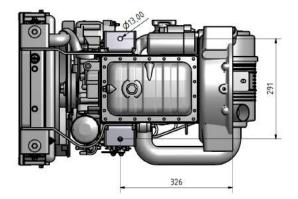
LEFT SIDE VIEW



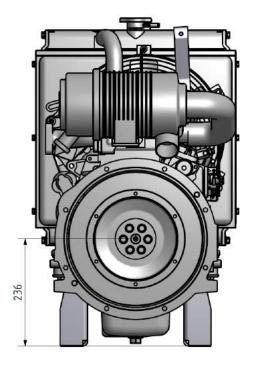
PLAN VIEW



UNDERNEATH VIEW



BACK VIEW



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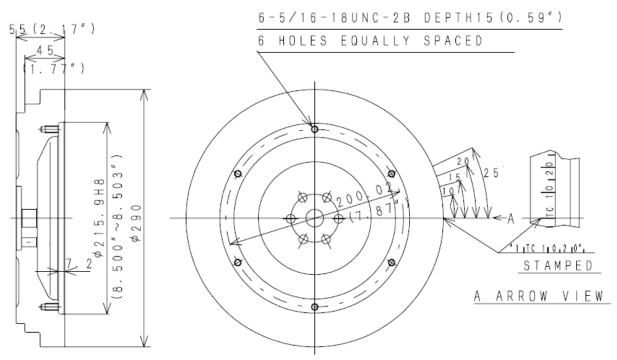
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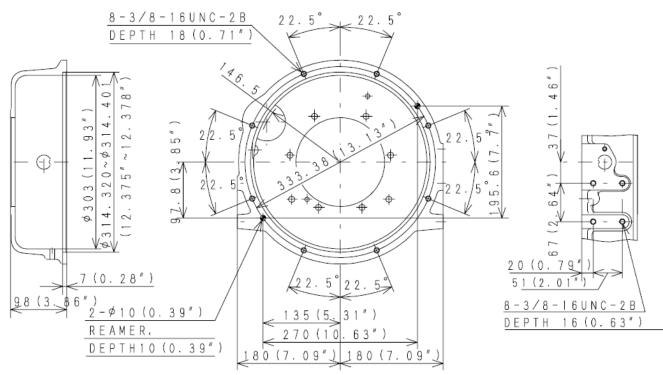
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Flywheel 1G680-25010 SAE 6 1/2"



Flywheel housing 16683-04610 SAE No. 5 short



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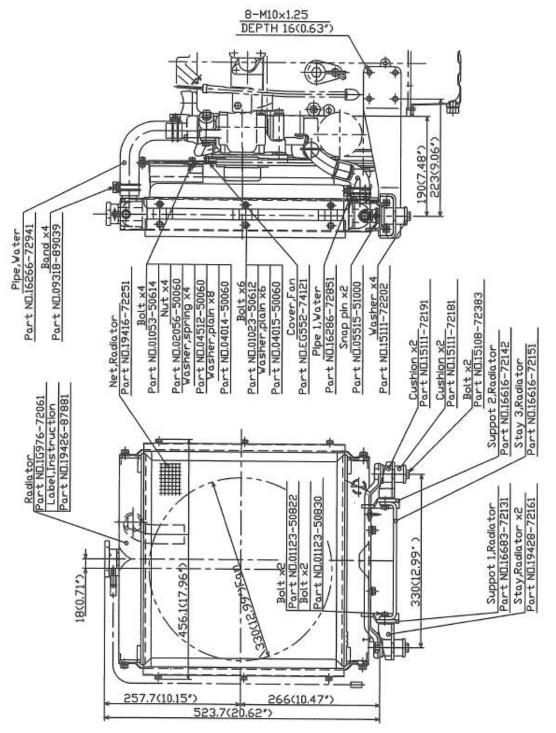
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Radiator Kit 518



Reserve Tank Kit 494 - is required

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D1703-E2BG-SAE-2

D1703-E2BG-SAE-2 1G982-00000 mech. controlled , high fan (D1703-M-E3BG-SAE-2 1J982-00000 electr. controlled , low fan)



Model	Stand-by (SAE J1349)	Continuous (SAE J1349)	Stand-by (SAE J1349)	Continuous (SAE J1349)
			60 Hz 1800 rpm	60 Hz 1800 rpm
	kW (HP)	kW (HP)	kW (HP)	kW (HP)
D1105-BG2	15.0	12.8	18.1	15.1
	(20.1)	(17.2)	(24.3)	(20.2)

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D1703-E2BG-SAE-2 Power Pack

Technical specification

Model		D1703-BG		
Number of Cylinders		3		
Туре		Vertical, Water-cooled, 4 cycle diesel engine		
Bore × Stroke	mm (in.)	87.0 × 92.4 (3.43 × 3.64)		
Total Displacemer	. ,	1647 (100.5)		
STANDBY ISO 3046 SAE J-1349	kW/min-1 (rpm) HP/min-1 (rpm)	15.0 / 1500 20.1 / 1500	18.1 / 1800 24.3 / 1800	
NET Continuous ISO 3046 SAE J-1349	kW/min-1 (rpm) HP/min-1 (rpm)	12.8 / 1500 17.2 / 1500	15.1 / 1800 20.2 / 1800	
Governor Regulat		Less that		
Combustion Char		Spherical type (E-T.V.C.S. : Thre	e Vortex Combustion System)	
Fuel Injection Pur	np Type	PF	R	
Governor		Mechanical all s		
Direction of Rotati	on	Counter-clockwise (view	ved from flywheelside)	
Nozzle Type		Throttle		
Injection Timing		0.2487 rad (14.25	°) before T.D.C.	
Firing Order		1-2-	-3	
Injection Pressure)	13.73 MPa (140.0 kgf/cm₂, 1991 psi)		
Compression Rati	0	22.0 : 1		
Lubricating Syster	n	Forced lubrication by trochoid pump		
Oil Pressure Indic	ation	Electrical type switch		
Lubricating Filter		Full flow paper filter (Cartridge type)		
Cooling System		Pressurized radiator, forced circulation with water pump		
Starting System		Electric Starting with Starter		
Starting Motor		12 V, 1.4 kW		
Starting Support	Device	By glow plug in combustion chamber		
EGR		NONE		
Battery		12 V, 60 AH, equivalent		
Charging Alternate	or	12 V, 480 W		
Fuel		Diesel Fuel No. 2-D (ASTM D975)		
Lubricating Oil (A	-	CF or other applicable grade		
Lubricating	Oil Pan Depth 90 mm (3.5 in.)	5.6 L (1.5	U.S.gals)	
Oil Capacity	Oil Pan Depth 124 mm (4.88 in.)	7.0 L (1.8 U.S.gals)		
Weight (Dry) kg (lbs)		164 (3		
Installation data		1500 rpm (50 Hz)	1800 rpm (60 Hz)	
Heat rejection	kcal/hr	14500	16600	
Exhaust gas volur	ne m³/hr	149.8	189.9	
Combustion air	m³/hr	64.5	77.4	
Water pump	l/min	54	64	
Fan pulley	mm	104	4	
Fan drive pulley	mm	102		
Pulley ratio		0.866		

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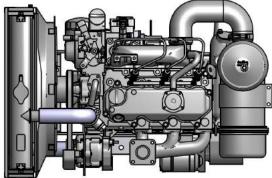
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FRONT VIEW

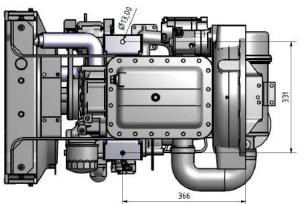
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LEFT SIDE VIEW

PLAN VIEW



UNDERNEATH VIEW

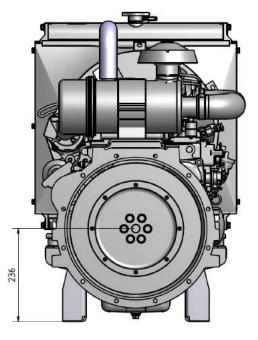


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BACK VIEW



*Kit 472 Low Fan

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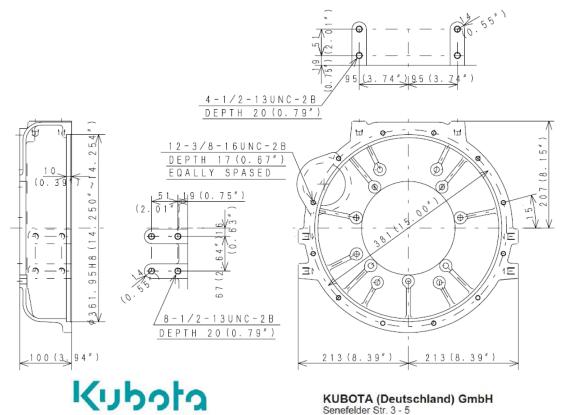
 Homepage:
 www.kubota-motoren.de

Flywheel 17299-25015 SAE 7 1/2" short

59(2.32) 8-5/16-18UNC-2B CRANKCASE Œ 500 * 503"~9. υF 2 (8. SURFACE 3HB (9. 63 R \$335 \$206. 4.1 END HE 2 (3. 03") (A) ARROW VIEW

MASS :22.1 kef (48.7 lbf) MATERIAL :SPECIAL CAST GRAY IRON GD² :1.39 kef-m² (33.0 lbf-ft²)

Flywheel housing 17158-04610 SAE No. 4 short



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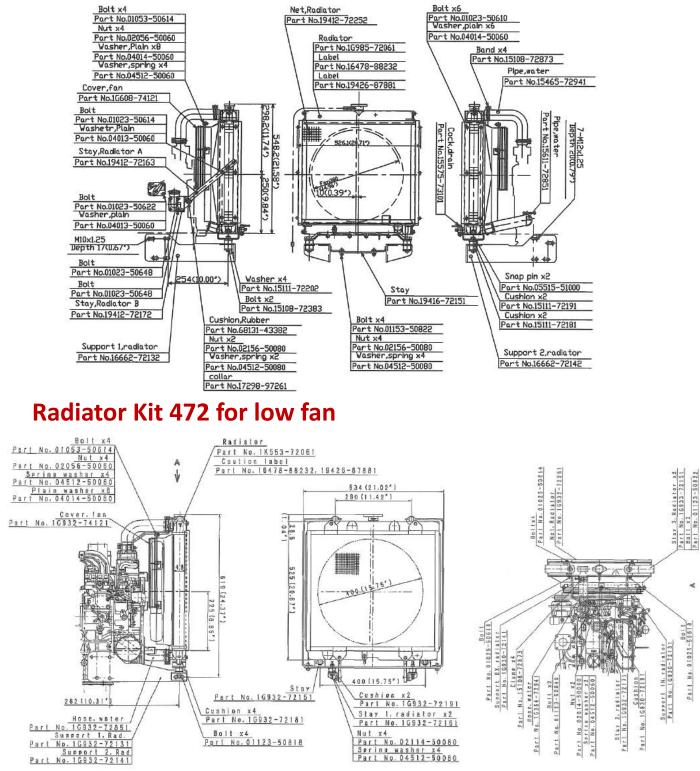
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Radiator Kit 519 for high fan



Reserve Tank Kit 474 - is required

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Homepage:	www.kubota-motoren.de

V2203-E2BG-SAE-2

V2203-E2BG-SAE-2 1G985-00000 mech. controlled, high fan

(V2203-M-E3BG-SAE-2 1J985-00000 electr. controlled, low fan)



Model	Stand-by	Continuous	Stand-by	Continuous
	(SAE J1349)	(SAE J1349)	(SAE J1349)	(SAE J1349)
	50 Hz 1500 rpm	50 Hz 1500 rpm	60 Hz 1800 rpm	60 Hz 1800 rpm
	kW (HP)	kW (HP)	kW (HP)	kW (HP)
D1105-BG2	20.1	17.2	24.2	20.2
	(27.0)	(23.1)	(32.5)	(27.1)

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D2203-E2BG-SAE-2 Power Pack

Technical specification

			lectifical specification		
Model		V2203-BG			
Number of Cyline	ders	4			
Туре		Vertical, Water-cooled, 4 cycle diesel engine			
Bore × Stroke	mm (in.)	87.0 × 92.4 (3.43 × 3.64)			
Total Displaceme	ent cm3 (cu.in.)	2197	(134.1)		
STANDBY ISO 3046 SAE J- 1349	kW/min-1 (rpm) HP/min-1 (rpm)	20.1 / 1500 27.0 / 1500	24.2 / 1800 32.5 / 1800		
NET Continu- ous ISO 3046 SAE J-1349	kW/min-1 (rpm) HP/min-1 (rpm)	17.2 / 1500 23.1 / 1500	20.2 / 1800 27.1 / 1800		
Governor Regula	ation	Less the	nan 5 %		
Combustion Cha	imber Type	Spherical type (E-T.V.C.S. : Thi	ree Vortex Combustion System)		
Fuel Injection Pu	ітр Туре	Р	FR		
Governor		Mechanical al	l speed governor		
Direction of Rota	tion	Counter-clockwise (vie	wed from flywheel side)		
Nozzle Type		Thrott	le Туре		
Injection Timing		0.2487 rad (14.2	5°) before T.D.C.		
Firing Order		1-3	-4-2		
Injection Pressur	e	13.73 MPa (140.0 kgf/cm2, 1991 psi)			
Compression Ra	tio	22.0 : 1			
Lubricating Syste	em	Forced lubrication by trochoid pump			
Oil Pressure Indi		Electrical type switch			
Lubricating Filter	,	Full flow paper filter (Cartridge type)			
Cooling System		Pressurized radiator, forced circulation with water pump			
Starting System		Electric Starting with Starter			
Starting Motor		12 V, 1.4 kW			
Starting Support	Device	By glow plug in combustion chamber			
EGR		NONE			
Battery		12 V, 88 AH, equivalent			
Charging Alterna	tor	12 V, 480 W			
Fuel		Diesel Fuel No. 2-D (ASTM D975)			
Lubricating Oil (A	API Classification)	CF or other applicable			
Lubricating	Oil Pan Depth 90 mm (3.5 in.)	••) U.S.gals)		
Oil Capacity	Oil Pan Depth 124 mm (4.88 in.)	9.5 L (2.5 U.S.gals)			
Weight (Dry)	kg (lbs)	195	(430)		
nstallation data		1500 rpm (50 Hz)	1800 rpm (60 Hz)		
Heat rejection	kcal/hr	20200	24000		
Exhaust gas volu		199.8	253.3		
Combustion air	m³/hr	86.0	103.2		
Water pump	l/min	56	67		
Fan pulley	mm	104			
Fan drive pulley mm		102			
Pulley ratio		0.8	0.832		

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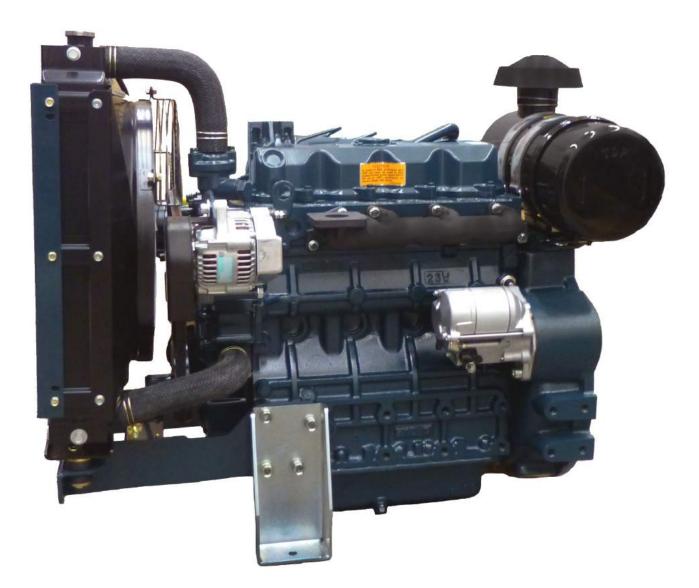
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D2203-E2BG-SAE-2 Power Pack

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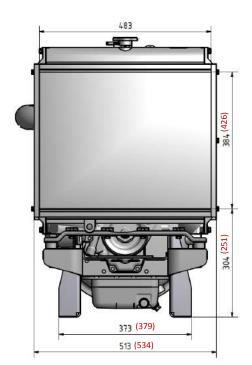
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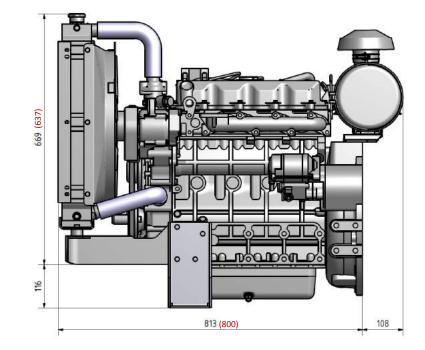
D2203-E2BG-SAE-2 Power Pack

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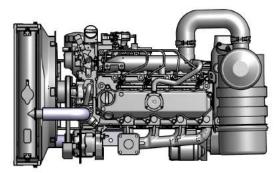
FRONT VIEW

LEFT SIDE VIEW

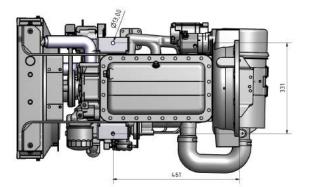




PLAN VIEW



UNDERNEATH VIEW

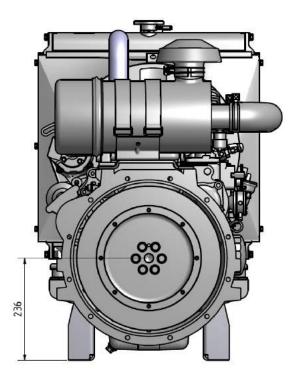


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BACK VIEW



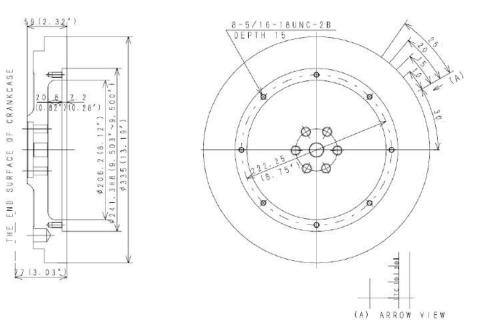
*Kit 472 Low Fan

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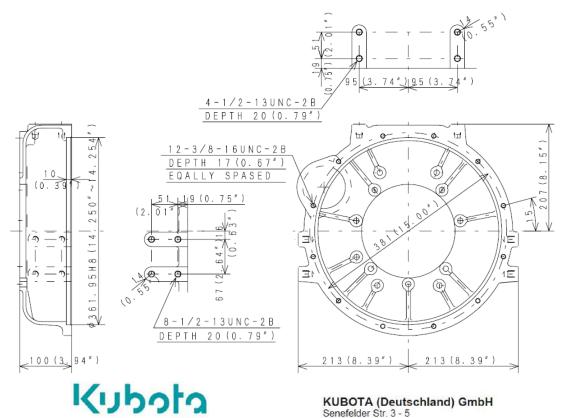


Flywheel 17158-25015



MASS :22.1 ksf(48.7 lbf) MATERIAL :SPECIAL CAST GRAY IRON GD² :1.39 ksf-m²(33.0 lbf-ft²)

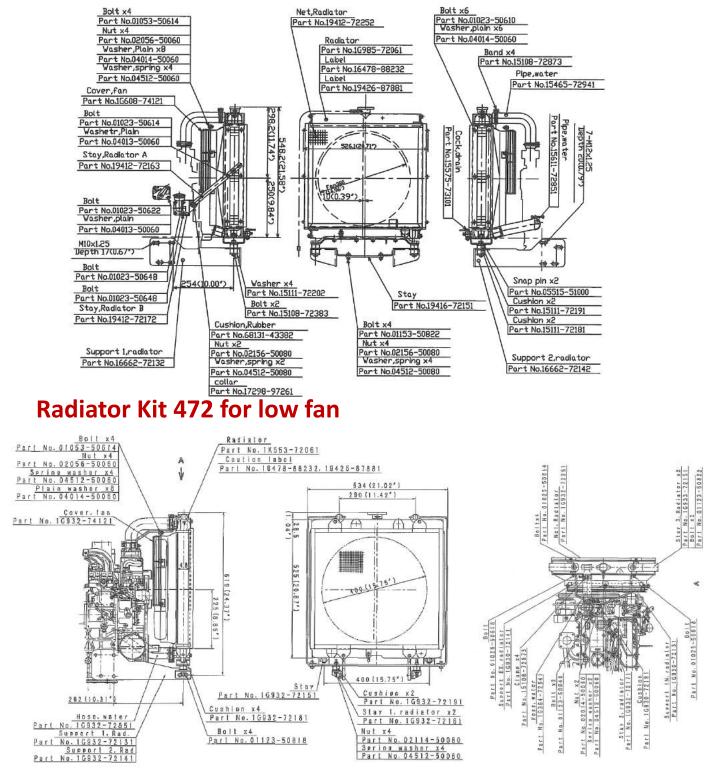
Flywheel housing 17158-04610



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Radiator Kit 519 for high fan



Reserve Tank Kit 474 - is required

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EXPERIENCE

With over 80 years of experience in the diesel engine business Kubota is proud to be the number one engine manufacturer of diesel engines below 100 HP. No other "small" engine comes close to offering the advantages that a Kubota engine brings. Trust the industry leader, use Kubota power.

RELIABLE AND DURABLE QUALITY

Kubota Corporation's Quality Inspection Facility is state-of-the-art and is dedicated to meet the high quality expectations of the Kubota name. Kubota engines will provide you with the tried and true quality needed for your generator applications.

EMISSIONS

The Engine Product Environmental Management Section at Kubota Corporation in Osaka, Japan takes all possible measures to ensure that

the engines produced by Kubota meet the world's highest level of adaptability to pass future emission regulations.

Kubota's BG Series meets all current emission levels for EPA, CARB, EU and MOC.

GLOBAL DISTRIBUTION NETWORK

Kubota engines are used all over the world. Kubota is committed to support-ing its customers on a global basis by continuing to expand its

distribution network world wide. Kubota provides all of its distributors with sales support and corporate sponsored service and product training

in order to keep everyone up to date on the latest technical information.



Kubota

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