



# KUBOTA DIESEL ENGINE GENERATOR

## KJ SERIES

Quiet and Heavy-Duty Power Generation  
Single Phase 12.5~17.5kW  
Three Phase 16.8~21.6kW



ISO 9002 Certified KUBOTA ENGINE PLANTS – SAKAI/TSUKUBA/SAKAI-RINKAI –  
Have also received the German DAR certification.

# Kubota Made. Quality Assured.

Kubota's untiring quest for quality led to the development of a new line of heavy-duty 4-pole generators, the KJ Series. Powered by Kubota's own clean emission Super 03-E Series diesel engines, the KJ Series generators ensure a much quieter, more efficient, and longer service life anywhere you need reliable, safe and economical electrical power. Every generator in this series is one-source designed, assembled, and tested to guarantee maximum performance and compatibility. KJ Series' alternator and the engine production plants have been approved and awarded **ISO 9002 certification by Lloyd's Register Quality Assurance (LRQA)**. When the label reads Kubota, quality is assured.

## Dependable Generation

### Brushless Alternator

This brushless, self-exciting type alternator is designed to be used in producing high-quality electricity. Its convertible regulator (50/60Hz) electronic regulator is powered independently from the voltage detection circuit, therefore, regulation is not affected by distortions by the load.

## Transistor Automatic Voltage Regulator(AVR)

All KJ Series generators are equipped with a transistor AVR to ensure a stable flow of current. In addition, any local condition can be matched with a control panel voltage adjuster.

## Reduced Sound and Vibration

Kubota's inherent low sound design, a sound attenuated enclosure which effectively reduced all sound including that of the muffler, and the original E-TVCS combustion system substantially reduced the sound levels. Integral vibrations were also reduced by inserting rubber pads in critical areas.

Model	Sound level during Rated Output at 23ft.(7m)[dB(A)]
KJ-S130D	75.5
KJ-S150V	76.5
KJ-T210V	76.5
KJ-T270F	77.5

## Increased Safety Automatic Shutdown Mechanism

Should any abnormality occur in oil pressure or water temperature, this mechanism automatically stops the engine before it can be damaged.

## Emergency Unit

Kubota gathered the emergency relay, timer relay, and safety relay into one unit to save space, simplify the wiring scheme, and to improve protection against water, dust, and vibration. Key switch stop and mechanical manual emergency stop mechanisms are also included in this unit.

## Protective Design

All rotating parts of the engine and generator are enclosed in a metal weather resistant enclosure for maximum operator safety.

## Ease of Operation & Portability

### Convenient Front Panel Control

All switches and lamps are conveniently located in the center of the front panel for maximum accessibility.

## Transportability Enhanced by Twin Point Lifting Eye

Twin point lifting eye made it easy to transport all KJ Series generators.

## Carefree Maintenance One Side Maintenance

Oil, fuel, water, and filters are all located on one side for easy maintenance.

The front panel is fitted with an extra outer cover to prevent the switches from being pushed accidentally.



## Automatic Air Bleeding

Air bubbles which can rob the engine of its power are automatically removed from the fuel line.

## Easy-to-Mount & Remove Battery Pack

The battery pack, located in the rear of the generator, can be easily removed through the back panel.



## Voltage Select Switch (SW Type Only)

A reconnectable type generator with a 120V/240V(single phase model) and 120/208(three phase model) changeover switch to enlarge the total application range.



KJ-S130D  
(12.5kVA)



KJ-T270F-SW  
(27.0kVA)

## Cleaner, Quieter, and More Reliable Super 03 Series Diesel Engines

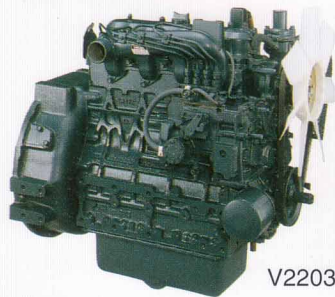
●Sturdy built Super 03 Series engines promise great reliability and long service life with advantages to meet most any application.

●Kubota's original E-TVCS combustion system improved air/fuel mixture to create cleaner emissions.

●Sound levels during load and no-load operations are kept to a minimum with Kubota's world renown diesel engine development technology and the superb E-TVCS combustion system.

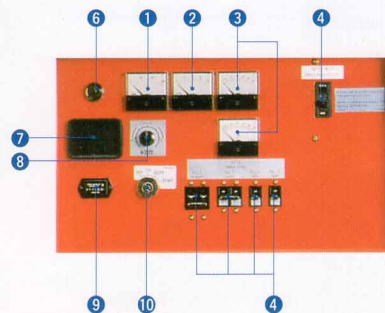
●Super glow preheat system comes as standard equipment to shorten preheating time and quicken engine start ups in cold temperature.

●In addition, the Super 03 Series is also designed against asbestos pollution.

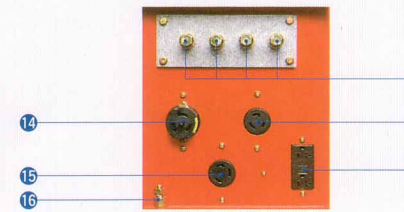
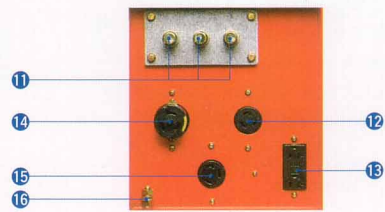
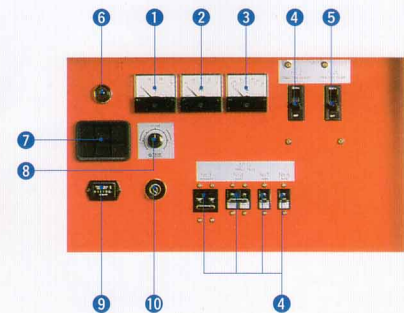


V2203-E

Single Phase (KJ-S130D)



Three Phase (KJ-T270F-SW)



- |   |   |   |
|---|---|---|
| <p><b>1</b> A.C. Voltmeter<br/>Display the generating voltage.</p> <p><b>2</b> Frequency Meter<br/>Displays the generating frequency</p> <p><b>3</b> A.C. Ammeter<br/>Displays the current output</p> <p><b>4</b> No Fuse Breaker (Single Phase)<br/>ON/OFF switch for circuit.</p> | <p><b>5</b> No Fuse Breaker (Three Phase)<br/>ON/OFF switch for circuit.</p> <p><b>6</b> Pilot Lamp<br/>Lights up when in operation and turns off when not in use.</p> <p><b>7</b> Monitor Lamps<br/>Turns on to signal irregularity. Stays off during normal operation.</p> <p><b>8</b> Voltmeter Adjuster<br/>Adjusts the voltage</p> | <p><b>9</b> Hour Meter<br/>Display the total operating time.</p> <p><b>10</b> Main Switch (key)<br/>Key switch, for start &amp; stop</p> <p><b>16</b> Ground Terminal<br/>Operates as the main generator's ground to help prevent short circuit and electric shock.</p> |
|---|---|---|

	KJ-S130D	KJ-S150V	KJ-T210V	KJ-T270F-SW
<b>11</b> Output Terminals.....(U,V,N)	1	1	None	None
Output Terminals.....(U,V,N,O)	None	None	1	1
<b>12</b> Output Receptacle...120V(L5-20R)	1	1	1	1
<b>13</b> Output Receptacle...120V(5-20R,GFI)	1	1	1	1
<b>14</b> Output Receptacle...120V(CS6370)	None	None	1	None
Output Receptacle...120V/240V(CS6369)	1	1	None	1
<b>15</b> Output Receptacle...120V(L6-30R)	1	1	None	1

# Specifications

Model		KJ-S130D	KJ-S150V	KJ-T210V	KJ-T270F-SW		
Generator	Type	Revolving field, self-excited brushless AC generator		Revolving field, self-excited brushless AC generator			
	Frequency	60		60			
	Rated output	(kVA)	12.5	15.0	21.0	17.5	27.0
		(kW)	12.5	15.0	16.8	17.5	21.6
	No. of phases	1	1	3	1	3	
	Voltage (AC)	(V)	120 / 240	120 / 240	120 / 208	120 / 240	120 / 208
	Current	(A)	52.1	62.5	58.3	72.9	74.9
	Power factor	(%)	100	100	80	100	80
	No. of poles		4		4		
	Rating		Continuous		Continuous		
	Insulation class		H		H		
Drive		Direct drive		Direct drive			
Engine	Type	Vertical, water-cooled, 4-cycle diesel engine		Vertical, water-cooled, 4-cycle diesel engine			
	Model	D1703-E	V2203-E	V2203-E	F2803-E		
	No. of cylinders	3	4	4	5		
	Bore × stroke	[in.(mm)] 3.43 (87) × 3.64 (92.4)		3.43 (87) × 3.64 (92.4)			
	Total displacement	[cu.in (cc)] 100.5 (1647)	134.1 (2197)	134.1 (2197)	167.6 (2746)		
	Revolutions per minute	1800	1800	1800	1800		
	Continuous rated output	20.0	26.7	26.7	33.5		
	Lubricating oil	API service class CC or CD 10W30		API service class CC or CD 10W30			
	Oil capacity	[U.S.gal(ℓ)] 1.7 (6.3)	2.3 (8.7)	2.3 (8.7)	2.8 (10.5)		
	Coolant capacity	[U.S.gal(ℓ)] 1.8 (6.9)	2.1 (7.9)	2.1 (7.9)	2.5 ( 9.4)		
	Set	Fuel	DIESEL No.2 (ASTM D975)		DIESEL No.2 (ASTM D975)		
Fuel tank capacity		[U.S.gal(ℓ)] 9.8 (37)		9.8 (37)	15.9 (60)		
Fuel consumption		1.2 (4.5)	1.5 (5.8)	1.6 (5.9)	2.0 (7.5)		
Starting method		Electric starting		Electric starting			
Battery capacity		(Ah) 80		80			
Dimensions		Length	[in.(mm)] 56.0 (1423)	59.8 (1518)	59.8 (1518)	64.7 (1643)	
		Width	[in.(mm)] 25.6 ( 650)	25.6 ( 650)	25.6 ( 650)	29.1 ( 740)	
		Height	[in.(mm)] 38.2 ( 971)	38.2 ( 971)	38.2 ( 971)	39.2 ( 996)	
Total dry weight		[lbs.(kg)] 1036 ( 470)	1146 ( 520)	1124 ( 510)	1356 ( 615)		
Emergency stop system		In case of abnormal Oil pressure or water temperature		In case of abnormal Oil pressure or water temperature			
Security measures		Door, fuel cap, control protection panel and radiator cap are lockable		Door, fuel cap, control protection panel and radiator cap are lockable			
Noise level at 23ft.(7m)	[dB(A)] 75.5	76.5	76.5	77.5			

Injury can occur: Do not connect generator to an electrical system unless an isolation switch has been installed.

\*Specifications are subject to change without notice.

## Weight & Dimensions

Model	KJ-S130D	KJ-S150V	KJ-T210V	KJ-T270F-SW
Length [in.(mm)]	56.0 (1423)	59.8 (1518)	59.8 (1518)	64.7 (1643)
Width [in.(mm)]	25.6 ( 650)	25.6 ( 650)	25.6 ( 650)	29.1 ( 740)
Height [in.(mm)]	38.2 ( 971)	38.2 ( 971)	38.2 ( 971)	39.2 ( 996)
Total Dry Weight [lbs.(kg)]	1036 ( 470)	1146 ( 520)	1124 ( 510)	1356 ( 615)

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