

Standard specifications

KJ155J*E25

1st Edition: June 10, 2019 2nd Edition: October 04, 2019 3rd Edition: November 25, 2019

> KAWASAKI HEAVY INDUSTRIES, LTD. ROBOT DIVISION

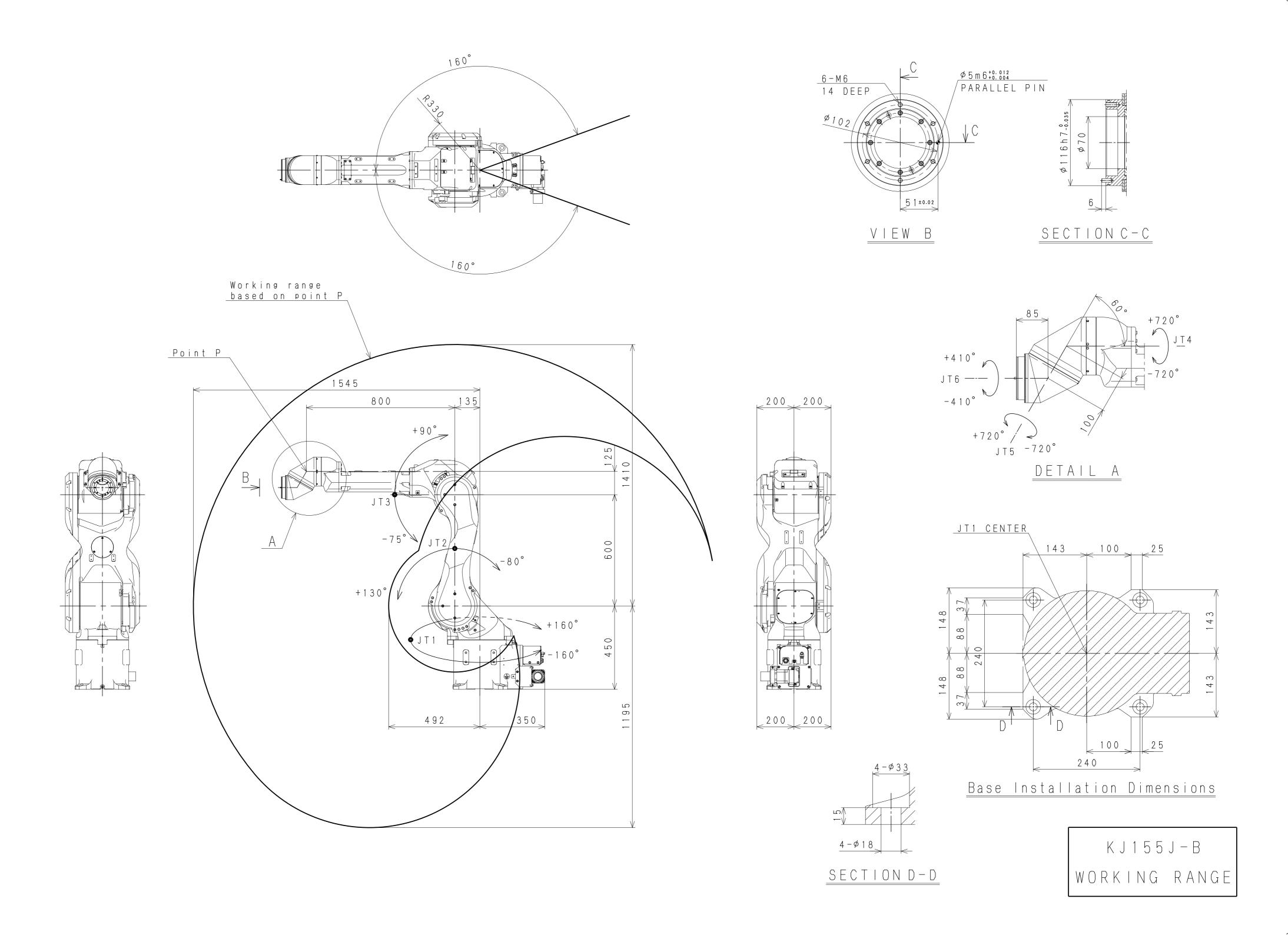
> > Specification :
> > 90101-2917DEC
> >
> >
> > (Arm) :
> > 90151-0262DEB
> >
> >
> > (Controller) :
> > 90152-0070DEB

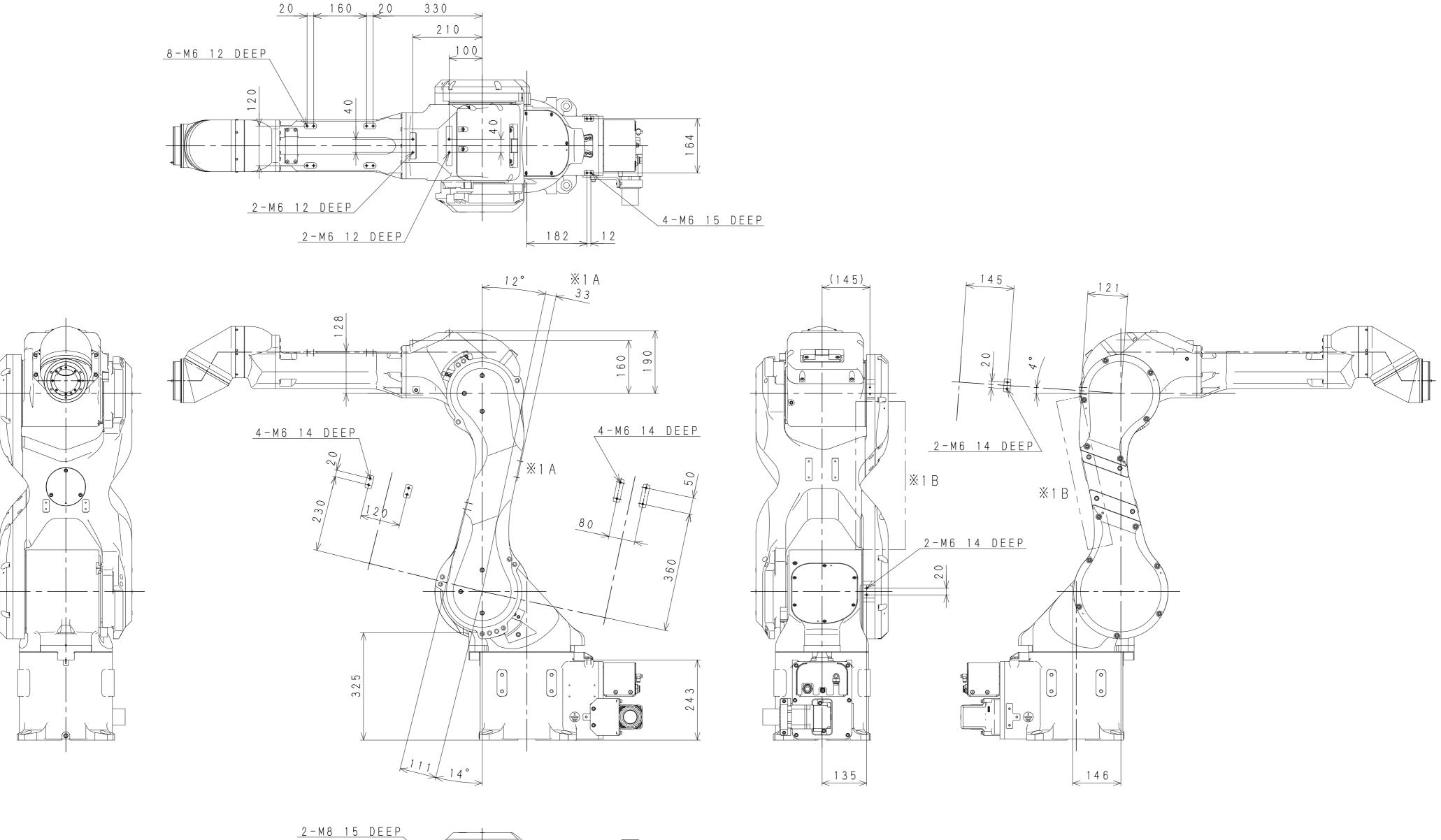
*•••F,G,R,S...

1. Specification of Robot

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[1] Robot Arm (KJ155J)							
1. Model	KJ155J-B						
2. Type	Articulated robot						
3. Degree of freedom	6 axes						
4. Axis specification	Operating axis Max. operating range						
•	Arm rotation (JT1)		+160 ° ~ - 160 °				
		(JT2) +130 ° ∼− 80 °					
		(JT3) + 90 ° ~ - 75 °					
	Wrist roll (JT4)						
	Wrist roll (JT5)		+720 ° ~-720 °				
	Wrist roll (JT6)	(JT6) $+410\degree\sim-410\degree$					
5. Repeatability	± 0.15 mm (at the tool mounting surface)						
6. Max. payload	Wrist: 8 kg (at the tool mounting surface)						
	Upper arm: 5 kg (on the Upper Arm: Include painting equipments in pressurized compartment)						
	Lower arm: 5 kg						
7. Max. painting speed	1500 mm/s (at the center of tool mounting surface)						
8. Load capacity of wrist							
		Max. torque	Moment of inertia*				
	JT4	21.8 N·m	0.90 kg·m2				
	JT5	17.0 N·m	0.54 kg·m2				
	JT6	8.0 N·m	0.12 kg·m2				
	Note*	shows allowable payload mor	ment of inertia of ITA/IT5/IT6 when may				
		Each value in this table shows anowable payload moment of mertia of \$14/\$13/\$16 when max.					
	allowed torque is applied to each axis. If more detailed data is required for your app contact Kawasaki.						
	Contact Rawasaki.						
9. Driving motor	Brushless AC Servomotor						
10. Working range	See attached drawing						
11. Mass	195 kg (without options)						
12. Color	Munsell 10GY9/1 equivalent						
13. Installation	Floor and Wall mounting						
14. Environment cond.	(Temperature) $0 \sim 40^{\circ}\text{C}$, (Hu		, nor frost allowed				
15. Explosion proof	Pressurized and intrinsically safe						
16. Air supply	Clean & dry air : $0.5 \text{ Nm}^3/\text{min}$, $0.4 \sim 0.7 \text{ MPa}$						
to the manipulator	=	-17 °C or less at atmospheric	e pressure.				
	Solid material : 0.01 μm or less						
	Oil content: Mist separation 99.9999% or more						
17. Options	Adjustable Mechanical Stopper: JT1/JT2/JT3						
	Painting equipment Solenoid valve for painting (up to 1 units can be equipped with)						
	l with)						
18. Others	Consult Kawasaki about maint						

[2] Controller						
1. Model	F2	E25/E27				
2. Enclosure		Enclosed structure / Indirect cooling system				
3. Dimensions		See attached drawing				
4. Number of contro		6 axes				
axes		7/8/9 axes(built-in addition, option)				
5. Servo control and		Full Digital Servo System				
drive system		Tun Digital belive bystem				
6. Type of control		Teach mode Joint, Base, Tool, Fixed Tool (option) operation mode				
		Repeat mode PTP, CP control mode		(VI)		
		1	Joint, Linear, Circular (option) interpolation		
7. Teaching method	I Te	Teaching or AS language programming				
8. Memory capacity		8 MB				
9. External operation		External Motor Power Off, External Hold, etc.				
signals						
10. General purpose	Ing	Input signals 32 channels (Includes dedicated signals)				
signals		Output signals 32 channels (Includes dedicated signals)				
11. Operation panel						
1		(Teach/Repeat SW, Emergency Stop SW, Control power lamp)				
12. Cable length			non hazardous area	3 m		
_		wer/Signal cable in	hazardous area	3 m		
	Te	Teach Pendant cable 10 m				
13. Mass	Sec	See attached drawing				
14. Power requireme	nt AC	AC200 V - AC220 V±10%, 50/60 Hz, 3 phases,				
-		Max 5.6 kVA(E27), Max 10 kVA(E25)				
15. Ground	Le	Less than 10Ω (for Explosion proof) ,Less than 100Ω (robot dedicated ground)				
	Le	Leakage current: max. 100 mA				
16. Ambient tempera	nture 0 -	0 - 45 °C				
17. Relative humidit	y 35	35 - 85 % (non-condensation)				
18. Color		Munsell: 10GY9/1 equivalent				
19. Ex. Light Weight	Teach Pendant Int	Intrinsically safe construction, Color display (5.7 inch TFT LCD) with touch panel				
	En	Emergency Stop, Teach Lock and Enable Switches				
20. Options						
General purpose		Input signals 64/96/128 channels (Includes dedicated signals)				
signals		Output signals 64/96/128 channels (Includes dedicated signals)				
I/O connector		D-SUB 37pin(male,female) with cover				
Operation panel		Motor Power ON, Cycle start, RUN/HOLD, Error reset, Error lamp				
Power/Signal cab		in non hazardous area 5,7,10,15,20,25,30m				
		hazardous area	1,5,7,10,15m	Total length: max. 40 m		
Teach Pendant ca		3,5,7,10,15,20,25,30m				
Teach pendant		in non hazardous area 1,3,5,7,10,15m				
Connector Box		hazardous area	1,3,5,7,10,15m	Total length: max. 30 m		
Auxiliary storage		USB memory				
Brake release		Brake release switch				
AC Outlet		AC100V Outlet				
PC cable	 	1.5m, 3m				
	Teach Pendant option Cable hook, connector for TP less					
Others		Cooler, LED Light, Field BUS, Software PLC, Analog input/output,				
		Conveyor Synchronization, Paint Equipment Control and so on				
21. Others Consult Kawasaki about maintenance parts and spare parts.						





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※1 Bは部品の接合部であり、実機と上図の外形にズレが生じることがあります。 ※1 Aに固定するブラケットが、※1 Bの近くに位置する場合は、ブラケットと ※1 Bの間に十分なクリアランスを設けてください。

Near by %1B, there may be a gap between the actual shape and drawing shape.

When you fix a bracket near %1B, please provide enough clearance between the bracket and %1B.

KJ155J-B SERVICE TAP LOCATION

E 2 5 150 MASS: 120Kg 550 500 1400 ۰ ٥ SIDE VIEW REAR VIEW FRONT VIEW SIDE VIEW WITHOUT CONNECTOR COVER