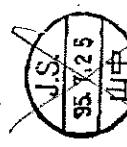


JUKI®

JSF-900 SERIES

Continuous Fusing Machine

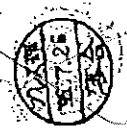
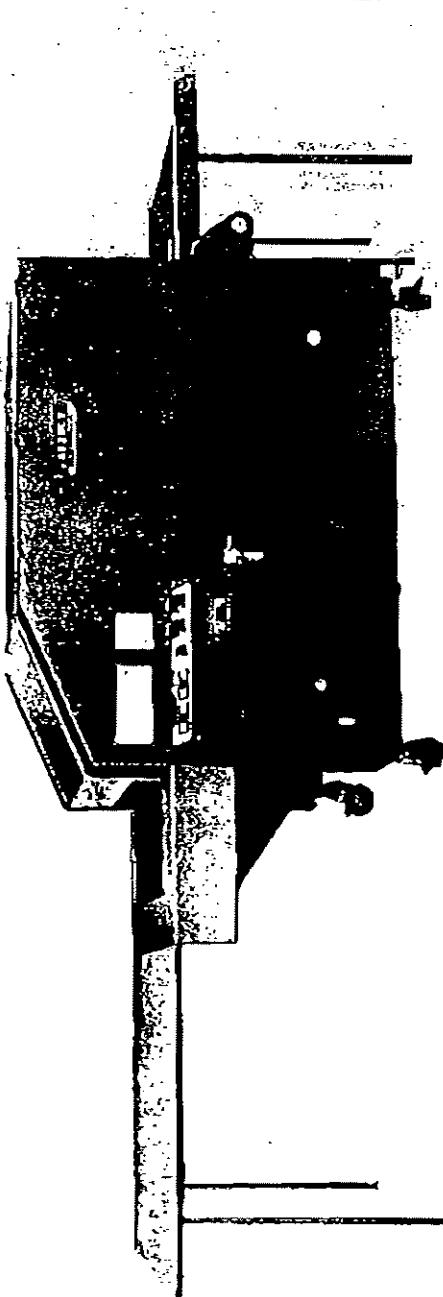
Instruction Book & Parts List



JSF-900

JSF-900 の方、先頃送信いたしました fax が届いた。

(P1 ~ P8.) お手元に届けられました。



TOKYO JUKI INDUSTRIAL CO., LTD.
SINGAPORE SECTION
JUKI TECHNICAL SECTION

Precautions in installing the machinery

- (1) Since this machine draws 11 kw of power, it should be connected to a 3-phase power supply according to the working voltage. (see table below)

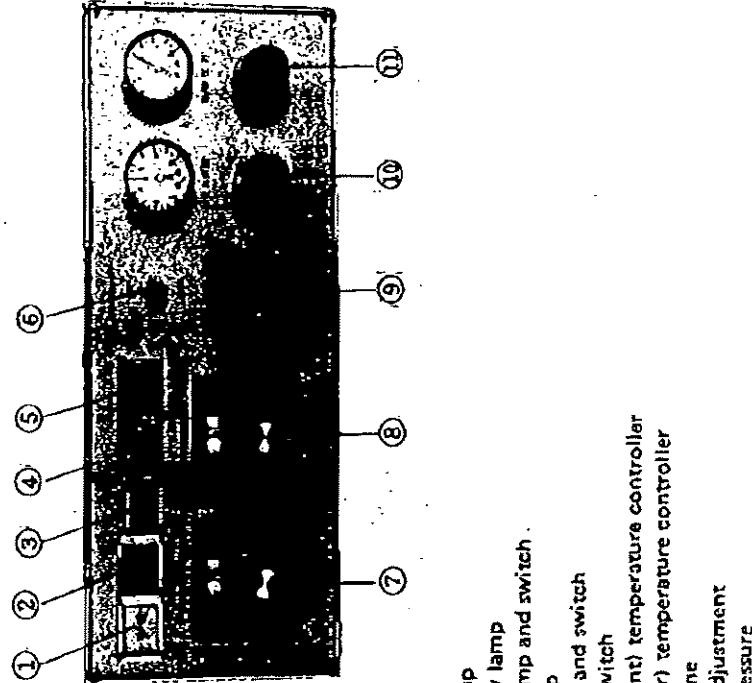
Voltage (V)	200	220	346	380	415	440
Current or more	33A	30A or more	19A or more	17A or more	16A or more	15A or more

- (2) This machine is air-driven. Since an air pressure of 6 kg/cm² of more is required, it should be connected to an air supply facility in which the air pressure under a fluctuating load will not drop below 6 kg/cm².
- (3) Since this machine is heavy, it must be installed on a very strong, level floor.

How to Operate the Machine

[1] Starting

- (1) Turn the power switch on the lower part of the right side ON. The power on lamp ① on the control panel will light up.
- (2) Set the pressure control ⑪ on the control panel to 6 kg/cm².
- (3) When the start pushbutton switch ⑪ is pressed the start lamp ③ lights up.
- (4) When the heating time setting knob ⑨ is turned, the teflon belt starts to run.
- (5) Set the front ⑦ and rear ⑧ temperature controllers to correspond to the material. A green lamp will light up when electric current is flowing through the heater; at other times a red lamp will light up. It takes ⑩ to 15 minutes until the heater temperature stabilizes (at 150°C). Check to see that the upper deviation indicator inside the temperature controller reads 0 before using the machine.
- (6) Set the pressure control ⑩ on the control panel to the necessary air gauge pressure. To convert between unit pressure and gauge pressure use the pressure conversion table on top of the control box.
- (7) When pressure switch ⑥ is turned ON, pressure is applied. When pressurization is not needed this switch should be OFF.



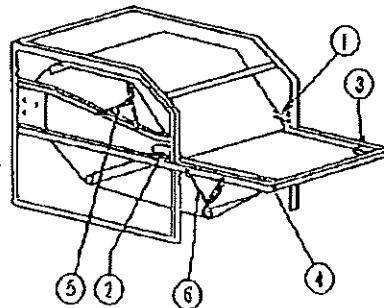
- ① power lamp
② emergency lamp
③ starting lamp and switch
④ idling lamp
⑤ stop lamp and switch
⑥ pressure switch
⑦ upper (front) temperature controller
⑧ lower (rear) temperature controller
⑨ heating time
⑩ pressure adjustment
⑪ control pressure

- [2] Stop
Press stop switch (5) to stop the machine in an emergency. Stop lamp (5) will light up.
- [3] Idling
[1] When the power switch is turned OFF at the completion of operation without pressing emergency stop switch (5), idling lamp (4) lights up. Only the heater goes off; the belt continues to run for a predetermined time (30 minutes) after which it stops automatically.
[2] During idling it is important that pressure switch (6) be OFF.
- [4] Emergency
[1] When the belt meanders abnormally, if the control pressure has dropped to 6 kg/cm² or below, then the emergency lamp comes on and the belt stops.

How to adjust the belt when it meanders abnormally

When the belt meanders abnormally the emergency lamp on the control panel (control panel Figure 2) lights up and the belt stops. In such a case it should be adjusted according to the following procedure.

- [1] Check to see whether it is the upper or lower belt that has begun meandering abnormally. If it is the upper belt, adjust meandering control adjustment bolt (6); if it is the lower belt, adjust meandering control adjustment bolt (6). Here, if the meandering is taking place on the left side (the adjustment bolt side) turn the adjustment bolt so that it becomes longer; conversely, if the meandering is taking place on the right side turn the adjustment bolt so that it becomes shorter.
- [2] Next, press the control limit switch lever (1) to (1) for the location where the meandering is occurring toward the belt. This will cause the belt to start running; keep pressing until the belt returns to the correct position (until it is centered on the roller) (1). For example, in the case of the upper belt meandering to the right, press lever (1).
- [3] When the belt has started to run normally, look at how the belt runs on the roller and check to make sure that the meander control is being applied equally on both the right and left sides. If it is too far to one side, perform a fine adjustment by turning the adjustment bolt again.



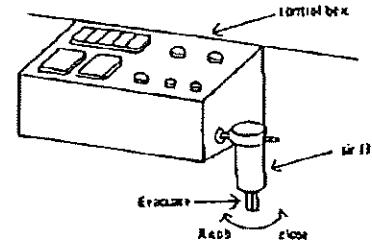
- (1) Limit switch lever for control of the upper belt on the right side of the machine
- (2) Limit switch lever for control of the upper belt on the left side of the machine
- (3) Limit switch lever for control of the lower belt on the right side of the machine
- (4) Limit switch lever for control of the lower belt on the left side of the machine
- (5) Upper belt side meander control adjustment bolt
- (6) Lower belt side meander control adjustment bolt

Precautions in Use

- [1] Adhesion test
[1] Before starting operations always perform an adhesion test to make sure that nothing is loose.
[2] If the temperature is too high, the cloth can be damaged and the belt can become darker than normal.
After testing the life of the belt, to be certain that these conditions do not occur.
[3] If the temperature is too low, adhesion will be poor.
- [2] Heating time setting
[1] Avoid use inside of the red lines.
It can cause a breakdown.

Everyday inspection and maintenance

- [1] Air filter
The air filter removes dirt and water from the air that is supplied. Since water accumulates in the cup it must be emptied regularly. This can be done by turning the bottom knob.



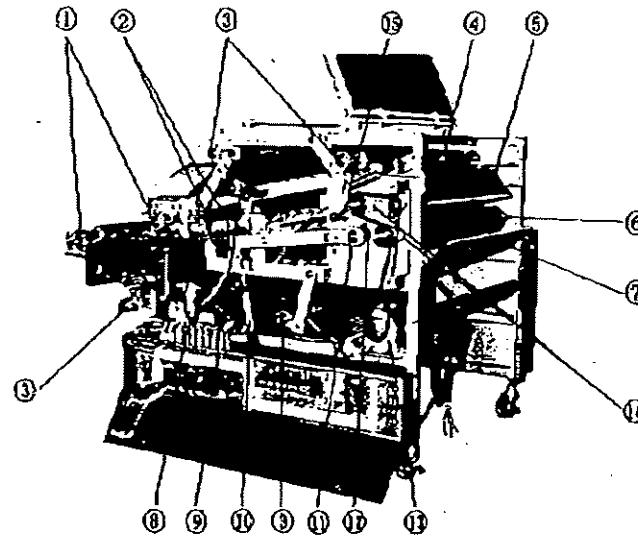
- [2] Cleaning the belt and keeping it clean
[1] If the belt becomes dirty with adhesive, wipe it thoroughly with a soft cloth. If it is very dirty, clean it with silicon spray or silicon liquid.
(Be careful that silicon liquid does not get in underneath the belt; it can cause the belt to slip.)
[2] To prevent the belts from getting dirty spray the entire surfaces of both the upper and lower belts 3 times every day.
- [3] Scraping plate
If the efficiency of scraping becomes poor, clean up the scraping plate and remove the adhesions and scraps of cloth sticking to the teflon edge using a soft cloth.
If the teflon edge has been scratched, sand it down with fine sandpaper until it fits the belt exactly.
- [4] Belt cleaner
Inspect the belt cleaner every day. If part of it gets very dirty, cut the cloth off of that part.
Polyester cloth is the best material to use for cleaner cloth.

Specifications

Item	Specifications
adhesion width	900 mm
adhesion length	no limit
pressurization method	air-driven silicon rubber roller pressurization
pressure	0.5 kg/cm ² ~ 4 kg/cm ²
heating method	heater 10.8 kW
heating time	50 Hz 5 ~ 28 sec 60 Hz 4 ~ 24 sec
heating temperature	ready-state temperature 200°C
belt speed	50 Hz, max. 10 m/min 60 Hz, max. 11.7 m/min
belt control method	air method, meander control method
motor	variable speed motor 100V 200V
dimensions when installed	width, 1655 x length, 3155 x height, 1230
weight	325 kg
power supply	3-phase 11 kW

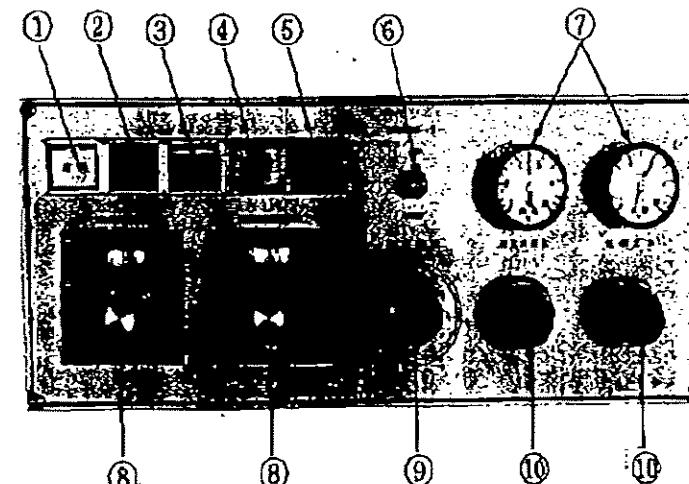
Parts List

[1] Mainbox

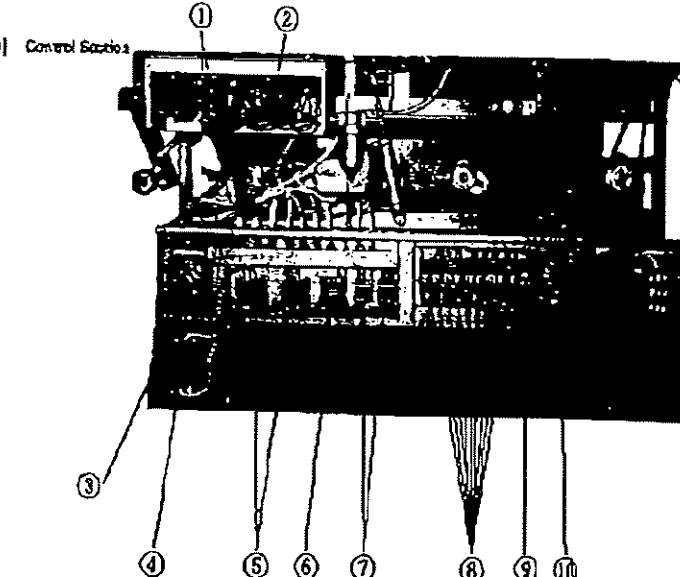


Part number	Part name	Quantity
PBF20628006	Pillow type unit	4
P14D109100C	Heater	12
PBF20327D18	Flange-type unit	6
P18D1098000	Upper belt	1
P2022Q98000	Upper scraping edge	1
P2017717000	Scraping edge	1
P18D2098000	Lower belt	1
PAF02180003	Air filter	1
PAC03002EA9	Wander control cylinder	2
PAC03005080	Press cylinder	2
PBF25347012	Flange-type valve	2
P221209800A	Press roller	1
P68D1098000	Variable speed motor	1
PBF25901103	Flange unit	4
PBF207BC017	Flange unit	2

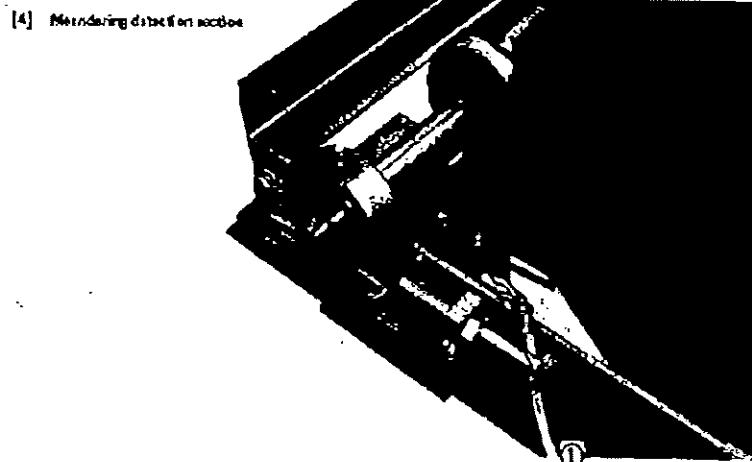
[2] Control panel



Part number	Part name	Quantity
① PS90103A000	Indicator lamp (power supply)	1
② PS90203A000	Indicator lamp (error/ready)	1
③ P57102RA000	Illuminated pushbutton switch (start)	1
④ P5801098000	Indicator lamp (idle)	1
⑤ P670109A000	Illuminated pushbutton switch (stop)	1
⑥ PAV01180000	Air valve	1
⑦ PAG01140000	Manometer	2
⑧ P0702093000	Temperature controller	2
⑨ P6801098000	Potentiometer	1
⑩ PAV01160000	Pressure reduction valve	2

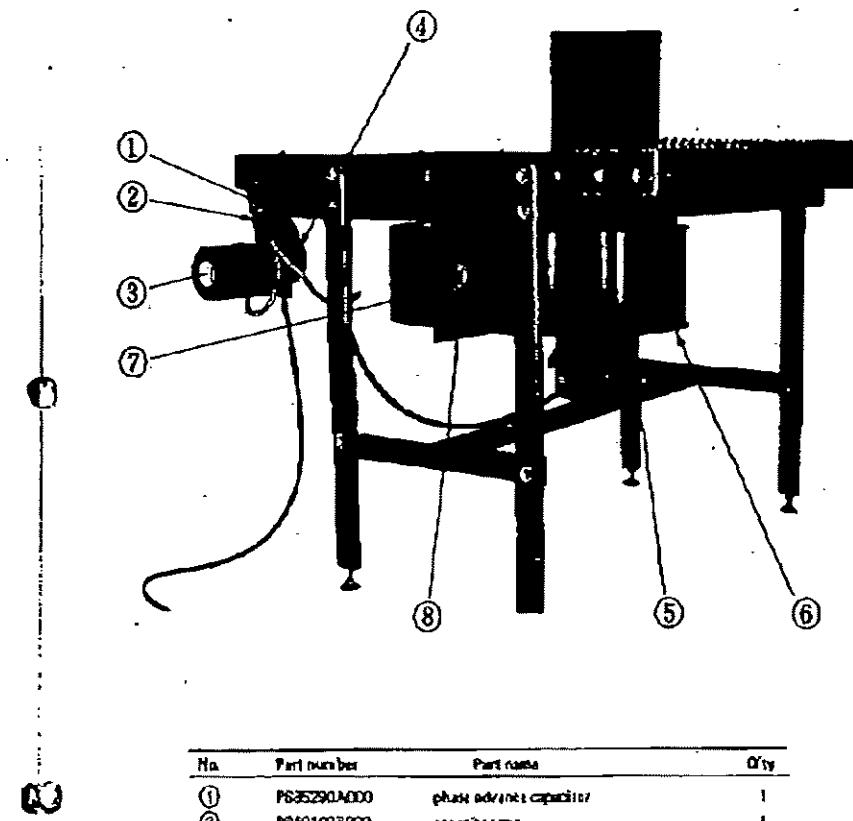


Part number	Part name	Quantity
① PVA01570000	Electromagnetic valve	1 set
② P680209A000	Pressure switch	1
③ P800108A000	Fuse	2
④ P650109B000	Circuit breaker for wiring	1
⑤ P651272B000	Electromagnetic contactor	2
⑥ P5551093000	Transformer	1
⑦ P6801093000	Electromagnetic contactor	2
⑧ P610109H000	Relay	5
⑨ P555108A000	Solid state timer	1
⑩ P6102093000	Control panel (for meter)	1



Part number	Part name	Quantity
① PS80109B000	Limit switch	8

Rear Conveyor Part of JSF-900V with Vacuum No. 1



No.	Part number	Part name	Qty
①	P635290A000	phase advance capacitor	1
②	P8401093000	capacitor cap	1
③	P880109A000	small gearmotor	1
④	P220109A000	V belt (A)	1
⑤	JBT-041-1	strobco fan	1
⑥	P2028E00H00	packing (G)	1
⑦	P2627E00H00	packing (H)	2
⑧	P2628E00H00	packing (I)	1

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Rear Conveyor Part of JSF-900 With Vacuum No. 2

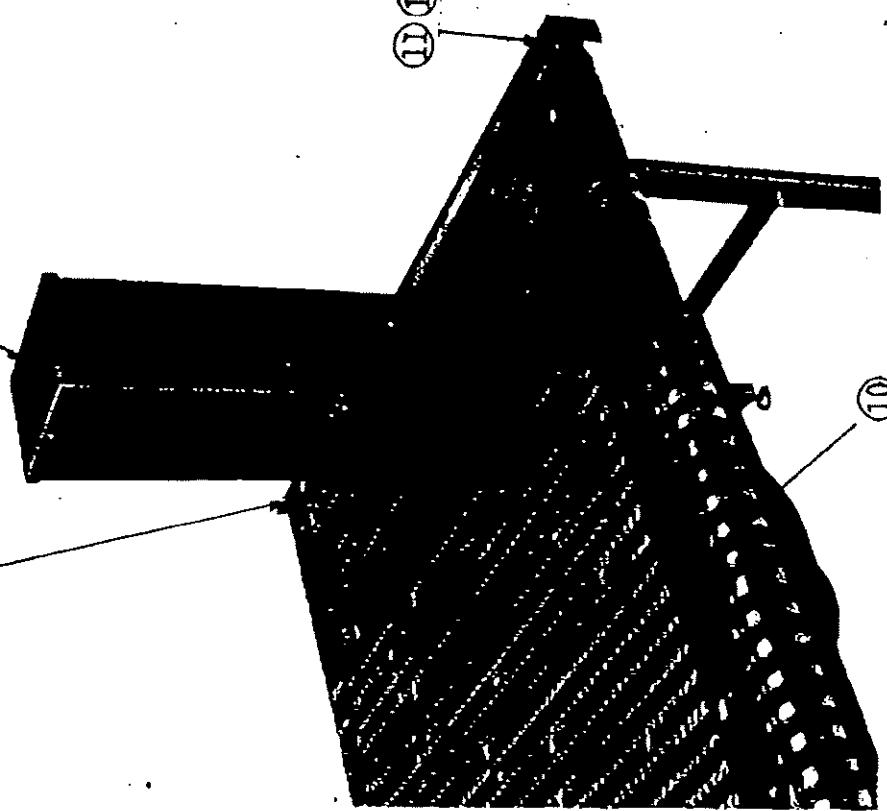
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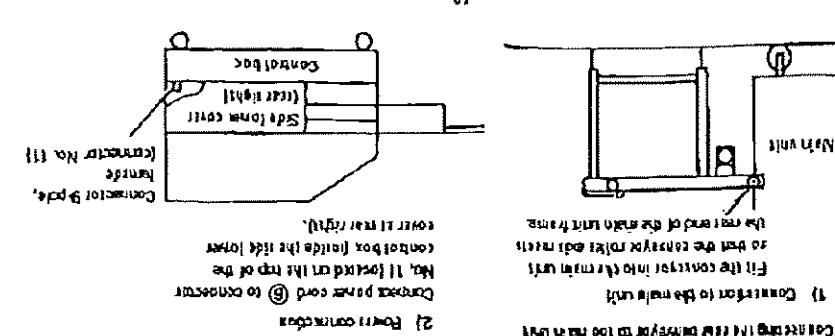
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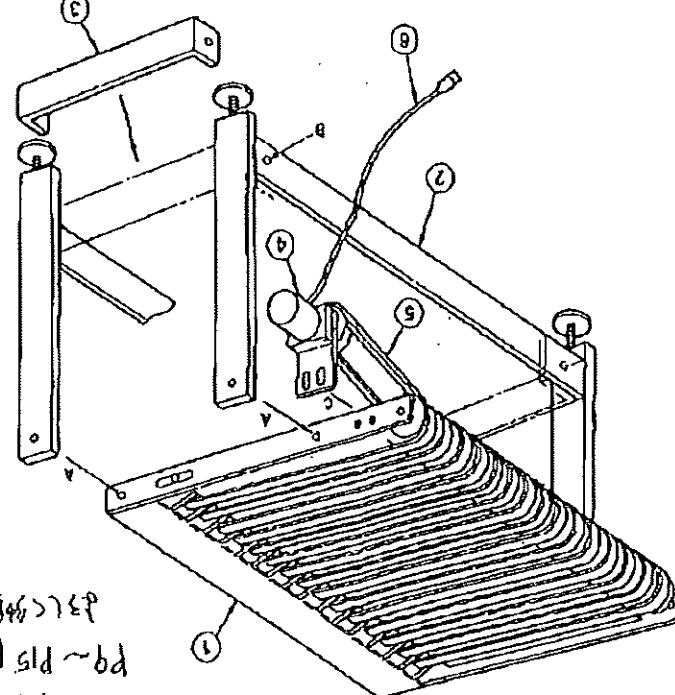
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No.	Part number	Part name	Qty
9	P111209BV00	exhaust filter	1
10	P180109BV00	conveyor belt	30
11	PBR15351119	bearing (G20222)	4
12	RC1380001KD	shaft stop ring (C15)	4



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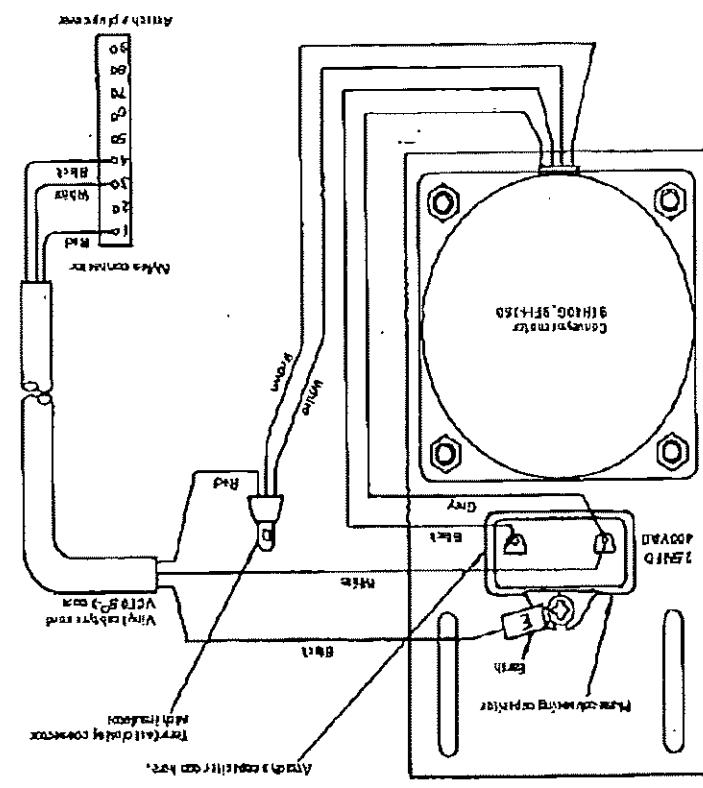
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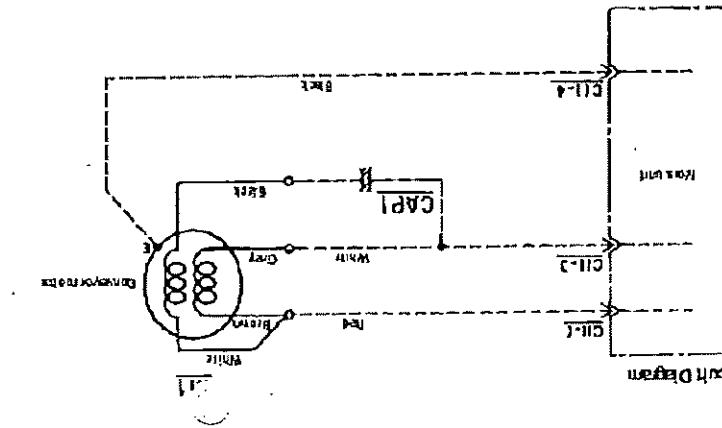
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J8F900-1 Rear Carrier Assembly Installation
J8F900-2 Rear Carrier Assembly Installation

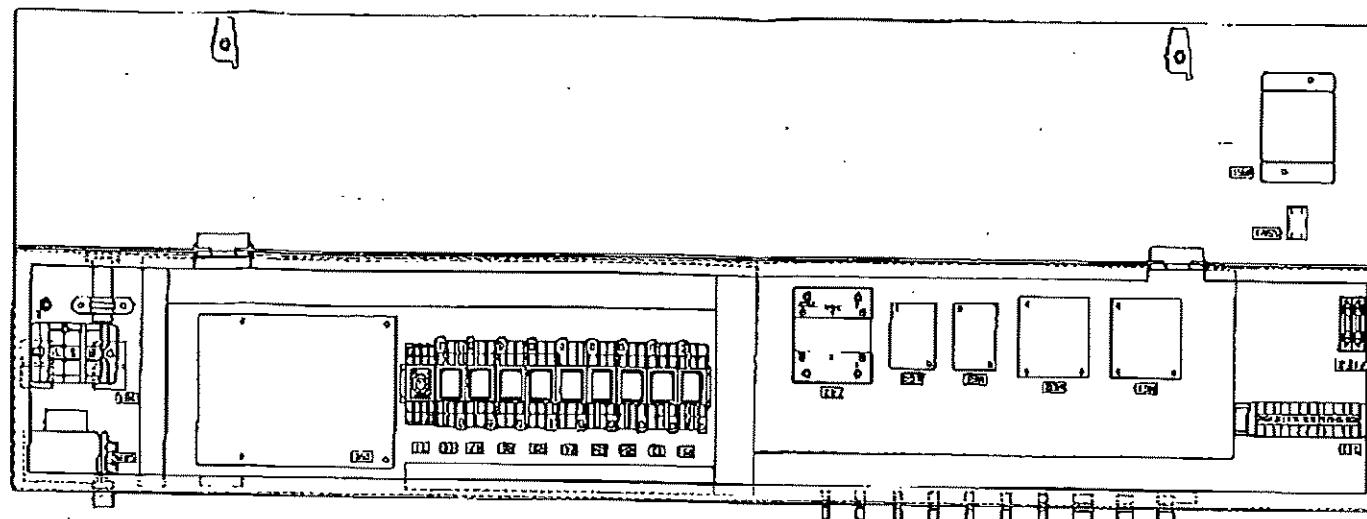
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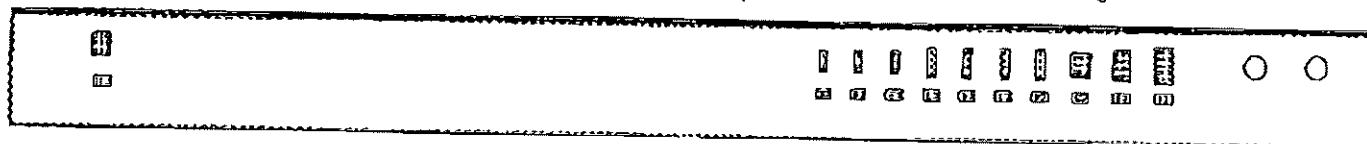
NI	Decoder motor	Type number	1292P-1 (Nikon 1292R (Flektite))
CAPI	Decoder motor	Type number	9TH-400, SCH-205 (AC200V)
CAPI	Power supply	Type number	2SA1FD (AOAVAC1)



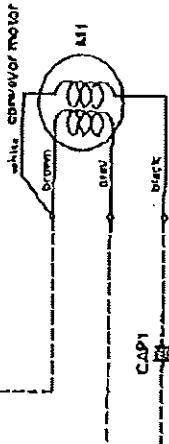
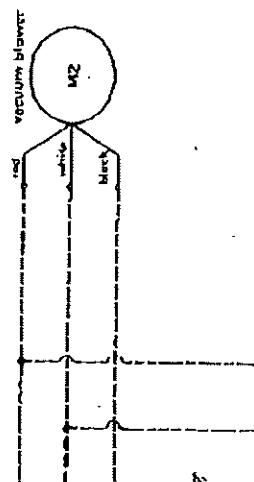
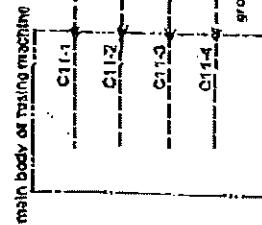
- 12 -



J5F-800 Front Interlock Logic Circuit

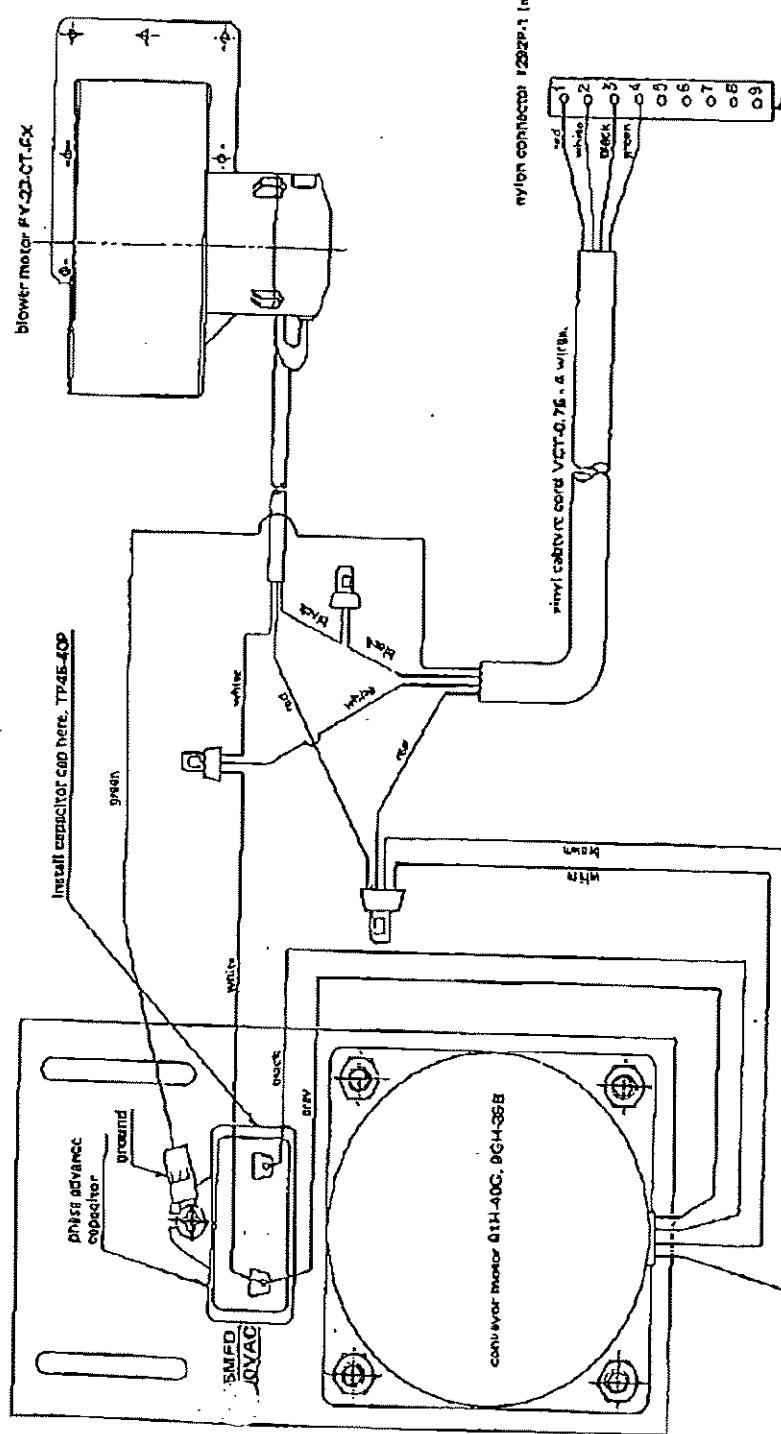


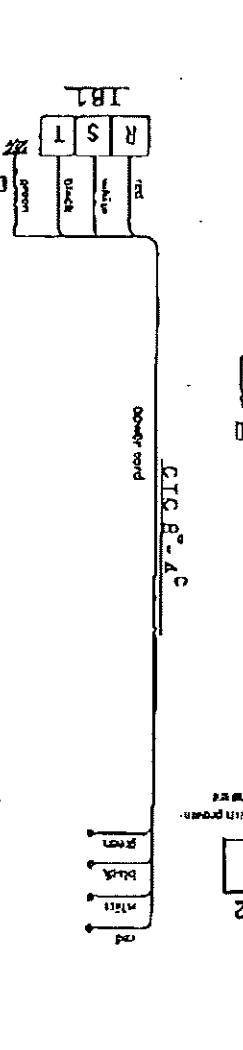
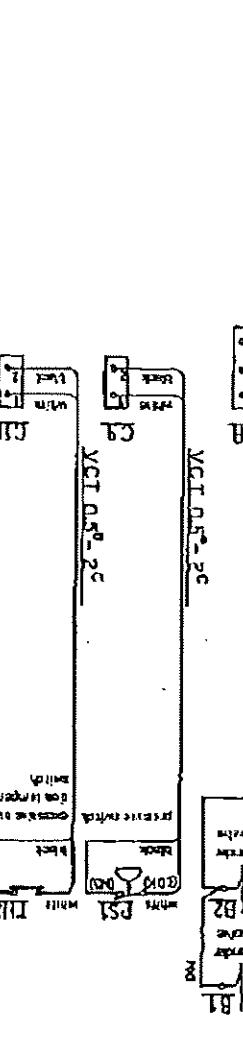
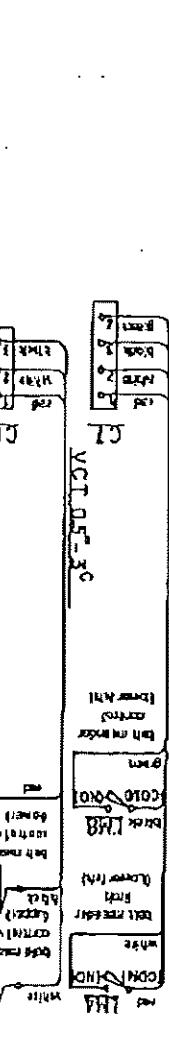
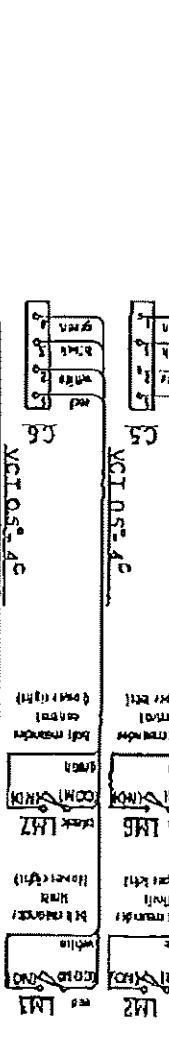
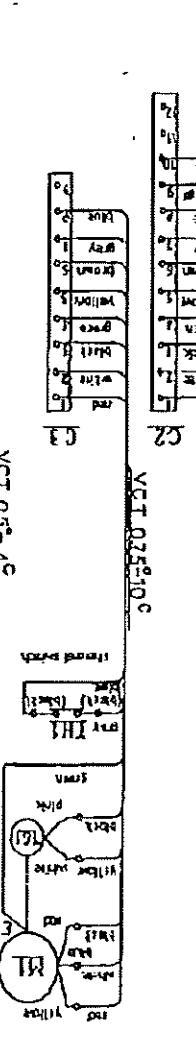
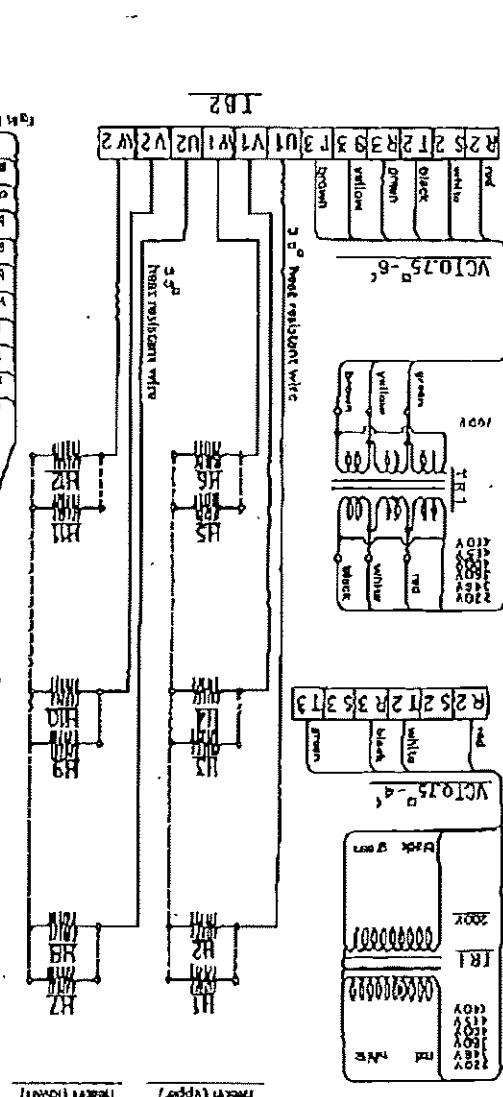
Symbol	Designator	Component Name	Model No.	Supplier	Ref.
N1	B7H diode monitor			SVSP-D8G Q1 KRY150 GECAPPAI	
T51	Speed generator				
T52	Trimble laser (for power supply)		TC600 2P	GT-15 12P	
T53	Trimble laser (for power supply)		1350A	1350P	
C2	Filter capacitor	12P	1375R	1375P	
C3	Filter capacitor	8P	1375R	1375P	
C4~C7	Filter capacitor	4P	1490R	1490P	
C8	Filter capacitor	3P	1395R	1395P	
C9~C10	Filter capacitor	2P	1395R	1395P	
C11	Filter capacitor	2P	1395R	1395P	
T81	Trimble laser		1292R	1292P	
T82	Trimble laser		K2U9	DVS-800	
M93,M94	Electro magnetic controller		K2U9	DVS-800	SPC-303-102-4 (AC200V)



Symbol	Name	Manufacturer	Model number
M1	conveyor motor	MITSUBISHITA	SH-4DG (AC200V)
C11-1	phase advance capacitor	MITSUBISHITA	26MCD (400 VAC)
M2	vacuum lifter	MITSUBISHITA	FY-23-CT-FX (AC200V)
C11-3	nylon connector	MOLEX	12020-1 (female) 12021-R (female)

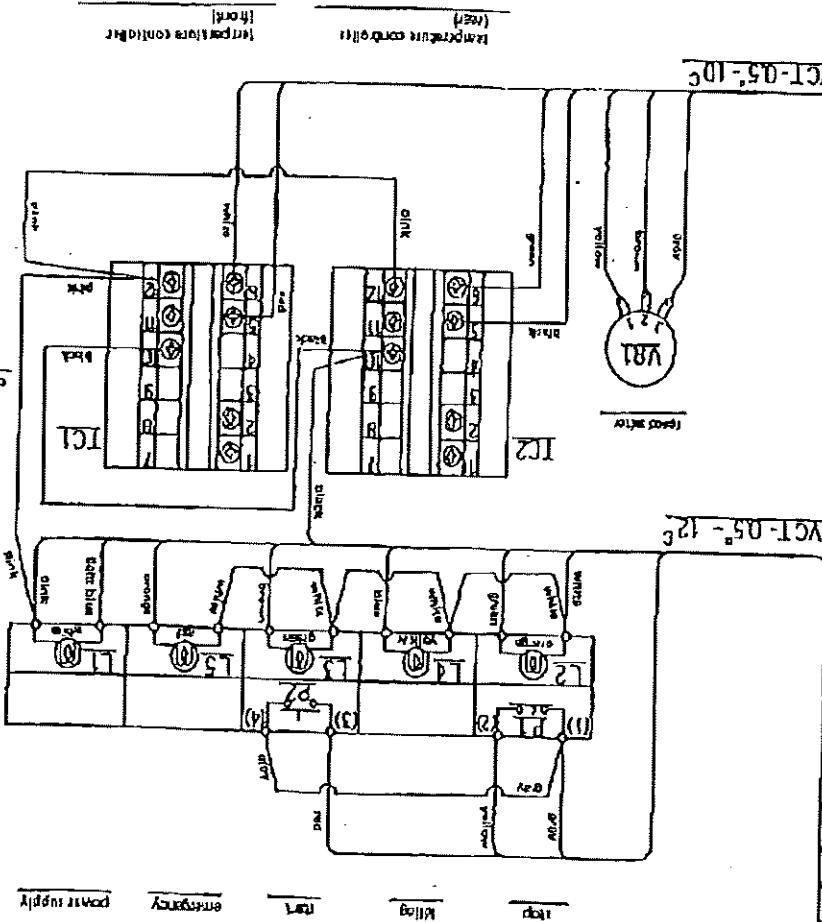
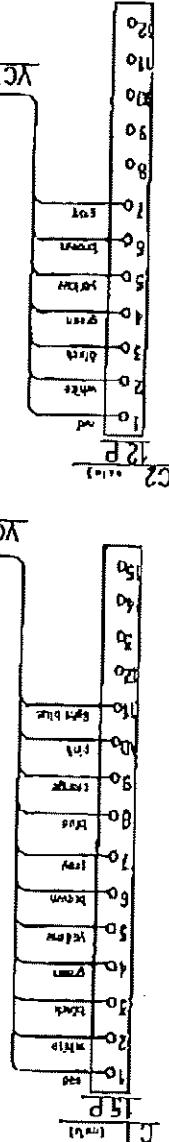
JGF-900V Wiring diagram



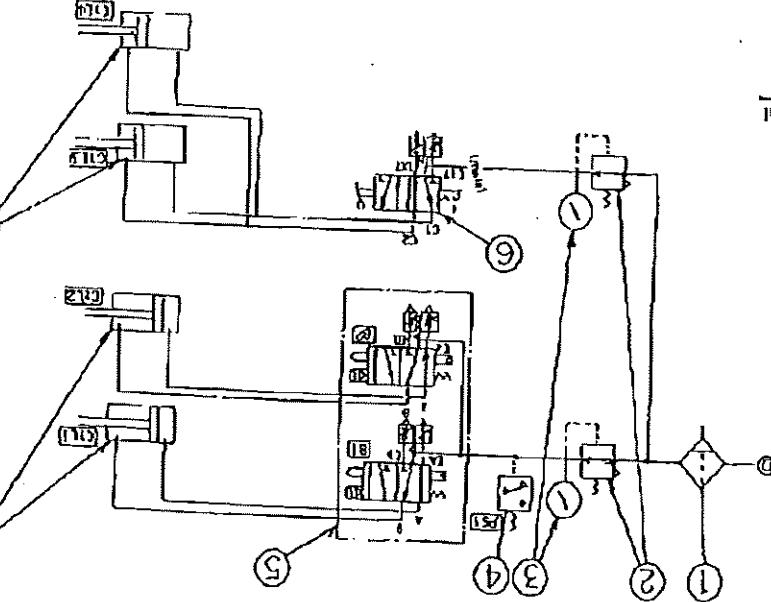


J5F-B08 wiring diagram

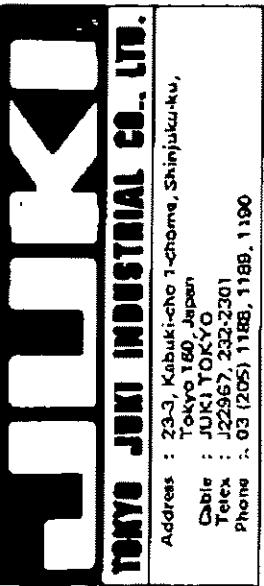
JEF-900 Wiring diagram



Stop Kill Emergency Power Supply



- 15 -



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