

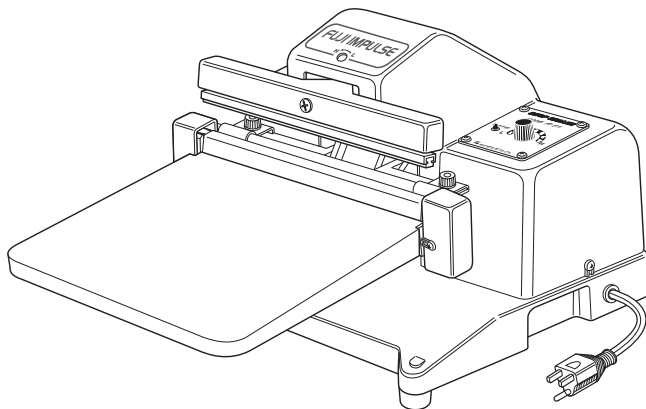
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Table - top impulse sealer

**Shop Sealer**

# FS-215/315

## Operating Instructions



 **FUJI IMPULSE CO.,LTD.**



## Foreword

Thank you for purchasing the Fuji Impulse FS sealer.

Please read all of the safety and operating instructions before operating this machine. Periodic maintenance and proper operation are necessary to ensure safety when using this impulse sealer.

Keep this manual on hand when operating this sealer.


Set the heating time according to the material and thickness of the film.


As a result of research to further improve the FS sealer, some details in the operating instructions may differ from your actual machine.


For operating problems or product information, please contact your local dealer or fax Fuji Impulse at (81)6-6335-5719.

## About the warning labels

The warning labels indicate when there is a danger of injury to the operator or damage to the machine. Below is a list of what each label denotes.

-----This indicates that if this label is ignored, minor injuries or damage to the machine may result.

-----This indicates that if this label is ignored, severe injury or death may occur.


-----This indicates that if this label is ignored, severe injury or death will almost certainly occur.

## This manual is designed to cover machines of various voltages and plug configurations

Before using, always verify the voltage specification of your particular unit and operate it at the correct voltage. Please note the following:

- 1) The voltage specification of your unit is listed on the label which displays the serial number. This label can be found on the machine body.
- 2) The explanations and illustrations in this operators' manual utilize the following standard plug configurations most common in Japan. However, due to the various configurations in use worldwide, these may not necessarily correspond with the one attached to your specific unit.



 Voltages and plug configurations differ according to various worldwide specifications. Always verify those of your particular unit before beginning operation. Connecting the power cord to an outlet of a different specification is extremely hazardous.

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# 1 Specifications

Model	Voltage V	Power consumption W	Sealing width mm	Sealing length mm	Weight kg	Dimensions mm W×L×H
FS-215	※Note1	400/250	5/2	200	5.2	286×375×197
FS-315		500/340	5/2	300	5.8	365×375×197

※Note1 The voltage apecification of your unit is listed on the label which displays the serial number.

This label can be found on the machine body.

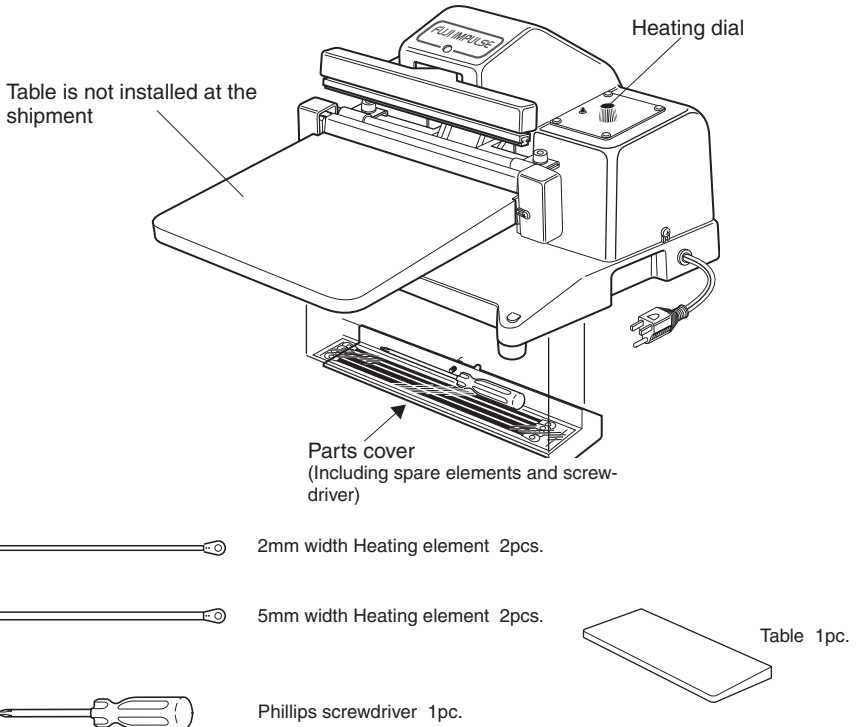
# 2 Accessories

Please make sure that all of the accessories described below are included.

If not, please contact your dealer.

When the package is opened, make sure that the heating scale is pointing to 1.

If not, adjust heating dial so that the heating scale is pointing to 1.



2mm Heating element	2pcs.
5mm Heating element	2pcs.
Phillips scerwdriver	1pc.
Table	1pc.
Operating instructions	1pc.

### 3 Replacement parts

Replacement parts can be purchased through your local dealer individually or in kits as detailed below.

Parts	Sales unit	Quantity in the spare parts set
Heating element	20pcs.	3pcs.
Teflon sheet	2pcs.	2pcs.
Glass tape	5m roll or 10m roll	2pcs.
Silicone rubber	1pc.	1pc.
Sarcon sheet	2pcs.	1pc.

**TIPS**

FS-215 parts differ from FS-315 parts.

Please specify your sealer's model in parts order.

### 4 Proper operating boundaries for the FS series

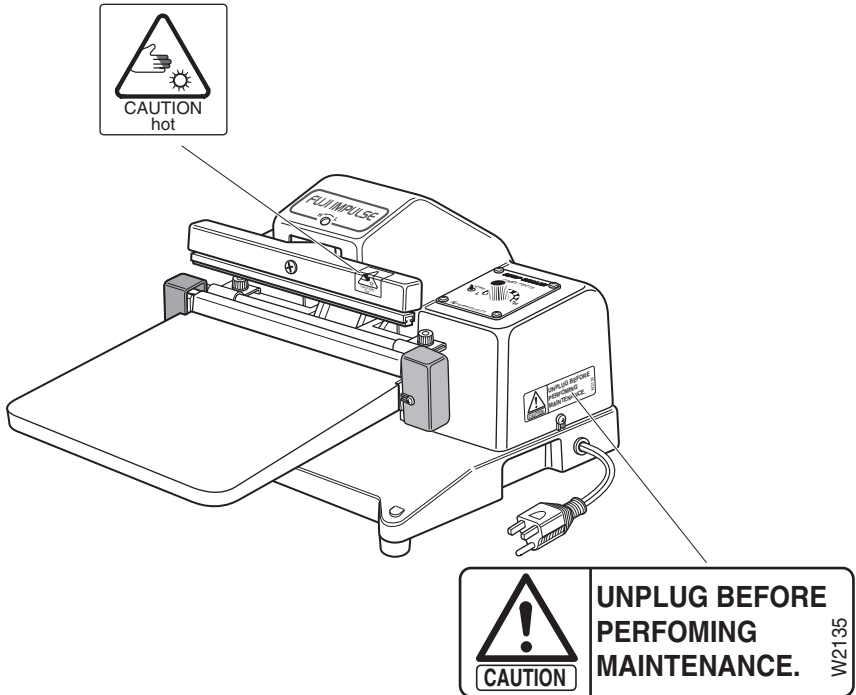
- 1 The impulse sealer is a machine which send strong electric current quickly to the thin ribbon heater, which presses against the film and instantly heat seals the package. Though this machine yields superior quality sealing, it is not compatible with films thicker than that indicated in the diagram below, sponge like sheets, and materials which are not able to withstand high heat.
- 2 Film thickness limits for FS series are described below. The machine cannot seal bags which are thicker than that indicated. The machine may malfunction if you try to exceed the limits of the machine.

Heating type	Heater width	Thickness of film (combined total of two sheets)
Single heating	2mm	0.2mm or less
Single heating	5mm	0.3mm or less

## 5 Warning - Caution label locations and content

Warning - Caution labels are placed in locations where there is a danger of injury to a person or damage to the machine. Label location details are illustrated below. Please check them before beginning operation.


Labels not readily apparent are indicated by dotted lines.



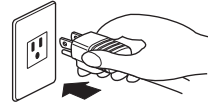
If Warning - Caution labels peel off or are lost, please purchase the proper labels and place them in the appropriate location.


## 6 Operating precautions

### For safety operating

 **Warning** In an emergency, unplug the power cord immediately


This sealer incorporates a number of safety devices and is carefully designed to prevent fires or other malfunctions. However, should all of the safety devices fail simultaneously, there is a possibility of the teflon catching fire due to a failure of the heating circuit's tripping mechanism that results in the heating element overheating. Should smoke or fire appear from the teflon, immediately release the table to turn off the power.




 **Warning** Confirm proper electric power source

Make sure power source has the specified voltage and electric power as explained in the operating instructions. Do not use an extension cord, as the machine may malfunction or may result in fire.

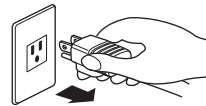
Machine will malfunction if connected to anything other than the specified voltage. Insert the electric power plug fully into the wall outlet.


 **Warning** Do not use for packaging liquids  
Do not splash water on the machine or use machine for packaging liquids since machine is not waterproof. There is a danger of electrocution or malfunction of the machine.

 **Warning** Do not insert any metal objects into the sealing area


Please do not place any metal objects into the sealing area during operation.

This could cause electrocution.



 **Warning** When replacing parts, unplug the power plug  
Maintenance of the machine is important. Parts should be replaced in accordance with the operating instructions. There is a risk of danger if the parts are not replaced properly. Before replacing parts, unplug the machine from the wall outlet.



** Do not modify the machine**

Modification of the sealer or the use of unspecified parts may not only lead to damage of the machine, but there is also a risk of danger to the operator.

Please do not tamper with the machine. Accidents or damage caused by modification by the customer is the responsibility of the customer.

** Do not use parts other than those specified**

When replacing parts, always use only specified parts sold through Fuji Impulse. Not responsible for malfunctions caused by the use of unspecified parts.

** Do not use in the following places**

Do not operate machine in the following places since there is a danger of malfunction:

- 1 Dusty locations
- 2 Locations not within normal temperatures
- 3 Location with high humidity

** Do not place hands in the sealing area**

With prolonged use, the sealing area will retain heat and become hot.

If you place your finger in this area, there is a possibility of burns.

** Use machine properly**

Read the operating instructions carefully and operate sealer correctly.

Accidents or damage caused by misuse of the machine not in accordance with operating instructions are the sole responsibility of the customer.

** Run test trials first before beginning operation**

Achieving a superior seal with an impulse sealer is determined by heating / cooling / pressure strength. Depending on the type of film being used and the contents of the bag, heating / cooling / pressure strength conditions may drastically differ. Find the optimum sealing conditions by conducting seal test before proceeding.

## For smooth operation

### Heating time should be set at a minimum

Set sealer so that an acceptable seal is completed in the least amount of heating time. Excessively long heating time (increasing the heat setting unnecessarily) will damage the teflon, glass tape and other consumables, as well as result in heating element breakage. This will lead to decreased work productivity and unnecessary power consumption.

### Allow sufficient cooling time

Cooling time is important when using an impulse sealer. After the film is heated, the film must cool with the frame and pressure lever in the closed position. Be sure to allow sufficient cooling time (above 1.5 times as heating time).

### When the teflon, silicone rubber becomes damaged

The teflon, silicone rubber will start to wear with use. Once they are damaged, it will be difficult to achieve smooth and strong seal.

Thoroughly read how to replace the parts and be careful when doing so.

### When operating machine for extended periods of time

The machine's temperature will rise upon prolonged use of the machine.

As the temperature of machine rises, the condition of the seal will change.

Thus, heating time should be shortened and cooling time should be lengthened accordingly.

### Dust the sealing area

Dust will prevent attainment of a smooth seal. It could also cause damage to heating element and or other routine maintenance parts.

Before using the machine, clean the sealing area.

## Other safeguards

### Run test trials before beginning operation

Depending on the type of film being used, heating / cooling / pressure strength conditions will differ. Run test trials to find the optimum sealing condition, especially when trying to find the tightest seal possible.

### The Fuji impulse FS series is an impulse sealer

Do not become alarmed if the sealing area does not become hot after the plug is connected to the wall outlet. The machine has not malfunctioned.

The Fuji Impulse sealer uses an impulse method, so the heating element will not become hot just by plugging the unit in or turning the power switch to the ON position. The heater will only become hot for an instant when the heating process is in operation. However, after extended periods of use, the sealing area may become hot.

### The safeguard to unusual heating

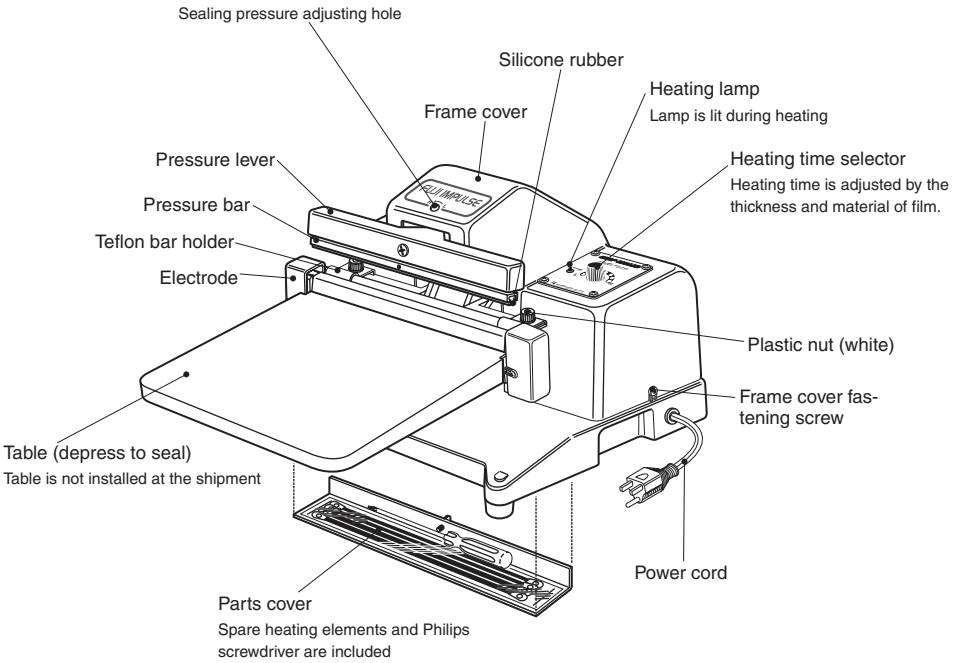
This sealer has a function which intercepts a circuit if the heating would continue about 3 seconds for malfunction of a heating timer.

After the circuit broken, heating time cannot be adjusted.

When depressing a table, microswitch turns on, heating re-starts and goes out after 3 seconds.

If the heating time is longer than usual, please refer "11 Common problems and solutions".

## 7 Major parts and functions




## 8 Proper use of the sealer

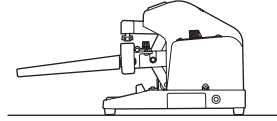
Use only as described in this manual.

There is a risk of danger and malfunctions result if the machine is used not in accordance with this manual.

### 1 Secure the work space


Be sure to use the sealer on the flat and suitable work table.

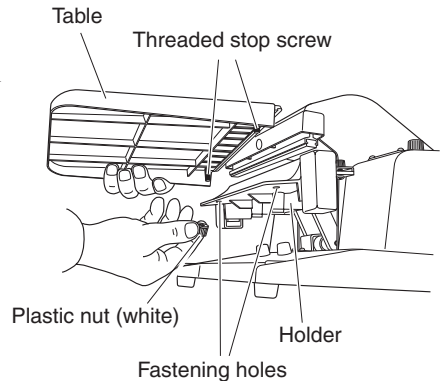
-  Since FS series sealer is light, it may fall down by a little power. If sealer is placed on the corner of a table, be careful not to be caught by the power cord, etc.



### 2 Install the table


- 1 Remove the supplied plastic nut (white), and insert the two threaded stop screws on the bottom of the table through the two fastening holes.
- 2 Tighten the table securely with plastic nuts.

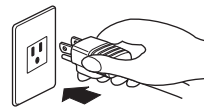
-  The table may be damaged if bolting of nuts is loose.



### 3 Connect to the power source

Connect the cord plug certainly to the wall outlet which can supply the electric power and voltage indicated in page 3 "Specifications"

-  Connecting the power cord to an outlet of a different specification may cause fire etc.



#### 4 Adjust the heating time

Heating time is adjusted in accordance to film's material and thickness.

Please adjust each time when you would use the another film (pouch).

Adjust the heating time by heating time selector.

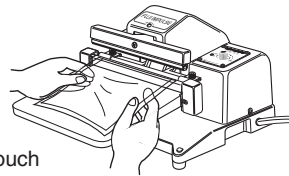
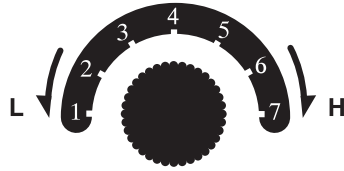
Heating time becomes long if a scale is enlarged.

Setting range : dial 1-7 (0.1-1.6 seconds)

Set the heating time. Excessively long time will damage the teflon, glass tape and other consumables or decrease work productivity.



If you continue the sealing with long heating time and no cooling time (Proper use of the sealer - 6 in page 14), it may cause a fire.



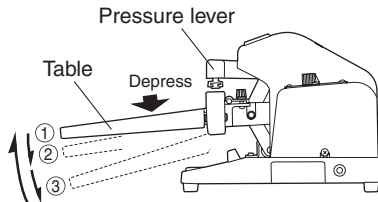
Pouch

#### 5 Set a pouch and sealing

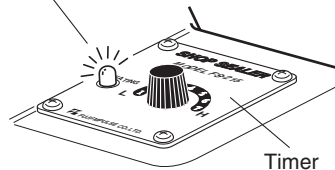
Set a pouch into the sealing area (position ①).

Depress the table to position ②, the pressure lever comes down and catch the film.

After checking that the pouch is correctly positioned, depress the table again to position ③. Microswitch turn on, heating start and heating lamp lights.



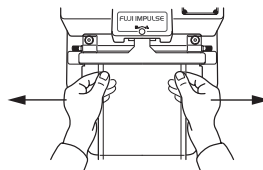
Heating lamp



Timer



Pull both sides of a pouch. Unless it not stretched, wrinkles will be made on a sealing line.



Pull both sides of a pouch

## 6 Keep a cooling time

When heating finishes, the heating lamp goes out.

Cooling time is important when using an impulse sealer. After the film is heated, the film must cool with the frame and pressure lever in the closed position.

After the heating lamp turns off, depress the table 2 ~ 3 seconds more.

Then return the table.

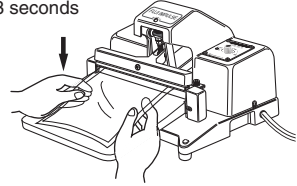


If the cooling time is not enough, you cannot get a perfect seal and consumable parts will be damaged early. When you hope especially high sealing performance, please take a sufficient cooling time.

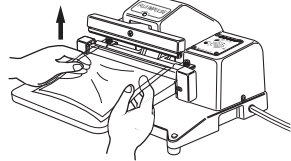
Heating lamp



After the heating lamp goes out, keep depressing down the table for 2 ~ 3 seconds



After taking sufficient cooling time, stop to depress the table.

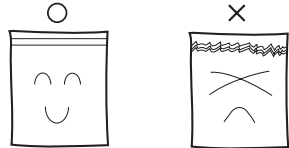


## 7 Sealing is completed

After the heating and cooling cycle, raise up your hands from the table.

Sealing is completed.

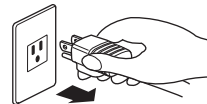
When the sealing condition is not good, adjust the heating, cooling time and pressure strength again.



## 8 Check

When sealing work is finished, or suspended for a long time, pull out a power cord from a wall outlet.

After the operation, check the damage of consumable parts, heating element, teflon sheet etc. If there is breakage, please exchange parts according to "Replacing the routine maintenance parts" in this manual.



## 9 Replacing the routine maintenance parts

Replace parts according to the following directions in order to maintain you machine in optimum operating condition.

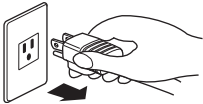


Do not replace parts according to other methods not described in the operating instructions.

It is dangerous if incorrect methods are used.



Always unplug power plug before replacing any parts. There is a danger of electrocution if conducted with the plug still inserted.

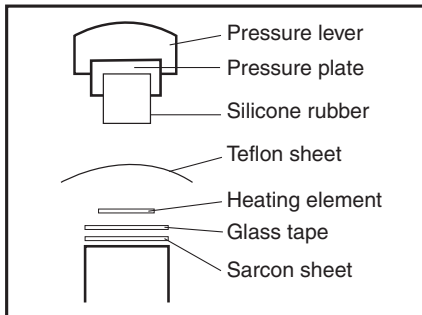


Always unplug power plug from the wall outlet before conducting any maintenance.

### Construction of the sealing area

The sealing area is constructed with parts illustrated in the diagram below.

When replacing parts, be careful to arrange the parts in the same exact order.





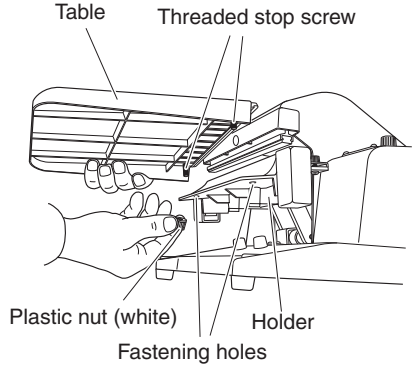
## 1 Slide the teflon sheet

[Essential tools] Scissors

[Replace when] When the teflon sheet is torn, burnt or sealing is dirty.

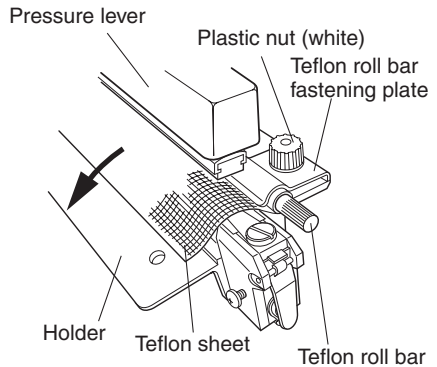
Teflon sheet is sold separately, and included in spare parts set.

- 1 Remove the table from the holder by removing two plastic nuts (white) under the table.
- 2 Loosen the plastic nut (white) tightening the teflon roll bar so that it can rotate.
- 3 Pull the teflon sheet forward until a new portion covers the heating element. (to the direction of allow)  
Cut off the old portion with scissors and discard.



**TIPS** Since the end of teflon sheet has to be fastened between table and holder, Please leave the enough length to insert before cutting.

- 4 Install the table as described in "8 Proper use of the sealer / 2" with binding the end of teflon sheet between table and holder.

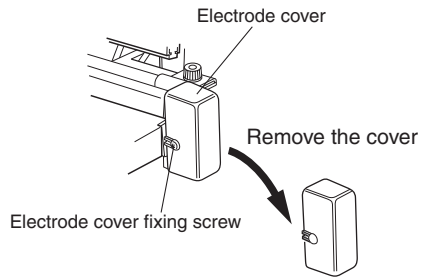


## 2 Change the heating element

[Essential tools] Screwdriver (-)

[Replace when] The heating element has burned out.  
Sealing is uneven or dirty,  
etc.

Heating element is sold separately and included in the spare parts set.



**1** Remove the teflon sheet as described in "Slide the teflon sheet".

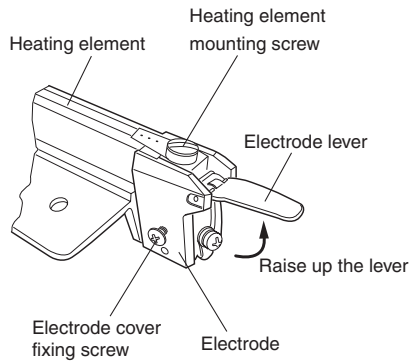
**2** Loosen the electrode cover fixing screw and remove the cover.

**3** Raise up the electrode lever to loosen the tension of heating element.  
Then remove the heating element mounting screw by screwdriver (-).  
Old heating element can be removed.

**4** Install the new heating element and fasten the one of heating element mounting screw roughly with keeping the electrode lever raised.

Next, draw the other side heating element terminal to the electrode and fasten the mounting screw. Then tighten the temporary fastened screw.

**5** Set the teflon sheet as described in "Slide the teflon sheet".



### 3 Change the glass tape, sarcon sheet

[Essential tools] Screwdriver (-)

[Replace when] The heating element has burned out.

Sealing is dirty, etc.

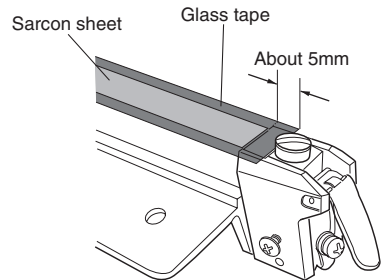
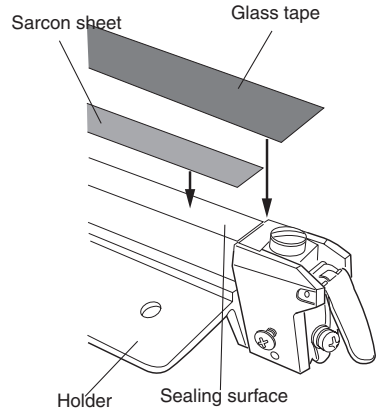
Glass tape and sarcon sheet is sold separately, and included in the spare parts set.

- 1 Remove the teflon sheet as described in "Slide the sheet".
- 2 Remove the heating element as described in "Change the heating element".
- 3 Peel the glass tape and sarcon sheet located below the heating element.
- 4 Attach the new sarcon sheet along the length of sealing section.
- 5 Attach the glass tape on the sarcon sheet. The glass tape must be about 5mm longer than the sealing section.
- 6 Instal the new heating element as described in "Change the heating element".
- 7 Set the teflon sheet as described in "Slide the teflon sheet".

#### TIPS

Some adhesive remain will uneven the sealing surface, and have an adverse effect.

Please clean the surface thoroughly before applying the tape and sarcon sheet.



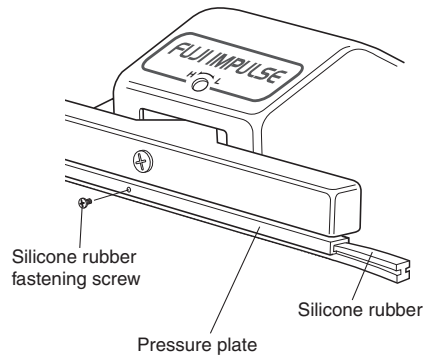
#### 4 Change the silicone rubber

[Essential tools] Phillips screwdriver (small)

[Replace when] Sealing is dirty, etc.

Silicone rubber is sold separately and included in the spare parts set.

- 1 Loosen the silicone rubber fastening screw by Phillips screwdriver (small).
- 2 Draw out the old silicone rubber from the pressure plate.
- 3 Fit the new silicone rubber's groove to the rail of pressure plate.
- 4 Fix the silicone rubber by tightening the small screw.



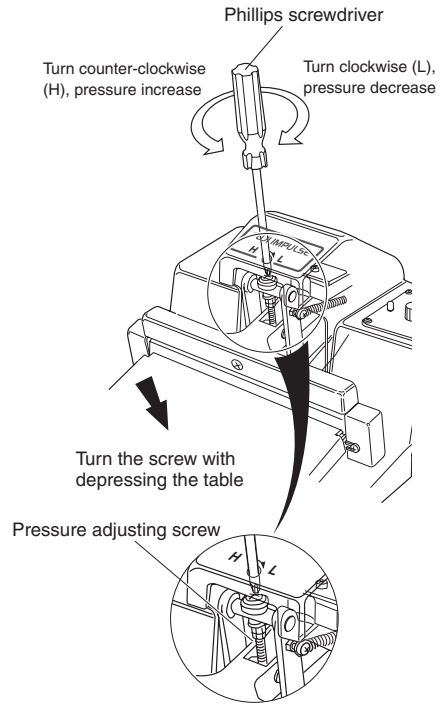
## 10 Adjust the sealing pressure

Depending on the material or thickness of the film, the proper sealing pressure may differ. Please adjust the sealing pressure at the first use or when sealing is not satisfactory.

**Warning** Always unplug the power plug from the wall outlet. It is dangerous if the microswitch turns on during adjustment.

- 1 Depress the table, and head of adjusting screw will appear in the hole of frame cover.
- 2 Sealing pressure can be adjusted by this screw.  
Insert the Phillips screwdriver through the hole.
- 3 Turn the screw counter-clockwise (H), pressure will increase.
- 4 Turn the screw clockwise (L), pressure will decrease.

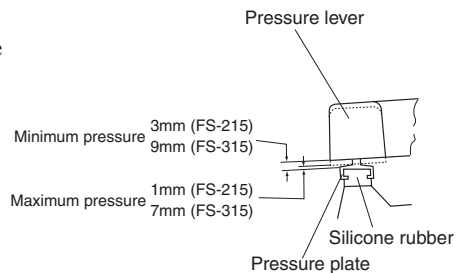
**TIPS** If the adjusting screw is tightened or loosened too much, some parts will be damaged or connection of parts may be separated. Please do it carefully.



### Standard for setting the pressure

Refer to the right illustration for setting the pressure strength.

Standard opening between pressure lever and pressure plate is as follows.




## 11 Common problems and solutions

If you are experiencing problems with the machine, please refer to the chart below. Carefully follow the directions in the operating instructions when replacing parts. Please consult your dealer or Fuji Impulse if after referring to the chart, the problem cannot be resolved.

Please refer any questions regarding replacement of parts not listed in the operating instructions or adjustment of such parts to your dealer or Fuji Impulse.

Items marked with an asterisk in the Solutions column refer to the fact that these problems should be addressed by an electrician. If there are any problems, please contact your dealer or Fuji Impulse.

 **Warning** When replacing parts, be sure to unplug power cord from the wall outlet.

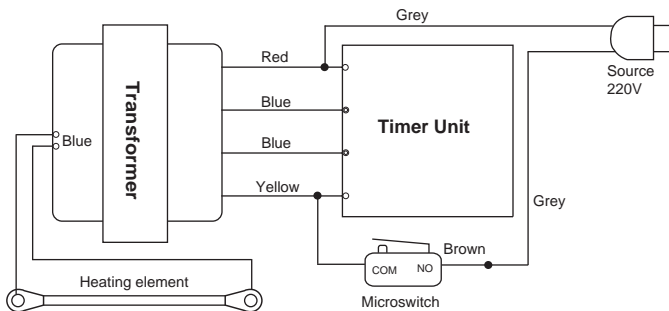
Service questions should be addressed to your local dealer.

Problems	Check	Solution
No power is supplied to the heating element and heating lamp.	Power cord is disconnected in the middle or near side of sealer's frame.	* Pull the disturbing portion of a cord. When power cord is disconnected, plastic tube is extended. Please exchange the cord.
	Poor contact of a power plug	* Plug cannot be decomposed. Cut the disconnected portion and replace to the new plug sold at stores.
	Defect of an electric circuit	Check the connection to the wall outlet, or check the electricity (voltage) by the tester.
	Defect or poor operation of a microswitch	* Replace the microswitch
	Defect of timer inside	* Replace the timer
Heating lamp is lighting for a long time and film is melt.	Defect of timer inside	*Replace or repair the timer
	Heating time is too long, and cooling time is too short	Shorten the heating time, and lengthen the cooling time.

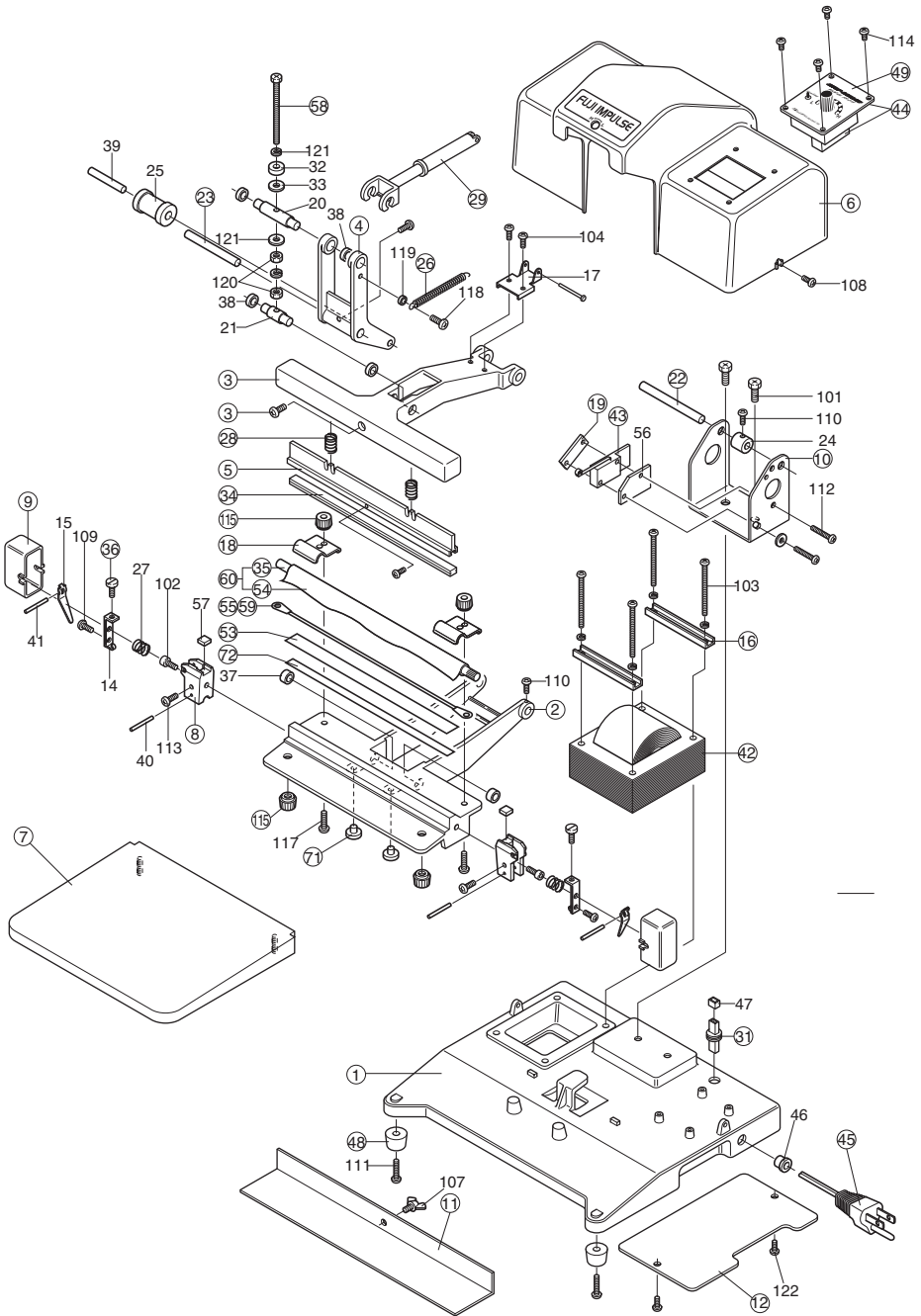
Items marked with an asterisk \* in the "Solutions" a column refer to the fact that these problems should be addressed by an electrician. If there are any problems, please contact your dealer or Fuji Impulse.

Problems	Check	Solution
Although the heating lamp is on, the heating element does not heat up.	Heating element is broken	Check the damage of glass tape (and replace it if necessary). Then replace the heating element.
	Poor contact of the heating element securing screw part	Polish the portion where contact to the heater terminal by a sandpaper.
	Transformer is damaged or transformer lead wire is disconnected	* Replace the transformer
Heating element easily tears	Heating time is too long	Adjust to minimum setting sufficient for sealing.
	If the operation interval is too short, the temperature of frame has risen and cooling time becomes insufficient.	After the heating lamp goes out, keep to depress 2 or 3 seconds more.
	Glass tape, Sarcon sheet is damaged	Replace the glass tape and sarcon sheet
Sealing is unsatisfactory	Teflon sheet is damaged	Replace the teflon sheet
	Silicone rubber is damaged	Replace the silicone rubber
	Cooling time is insufficient / Heating time is too long	Take the 1.5 times cooling time than heating time

## 12 Electric diagrams for typical model



# FS Exploded View





## FS series Spare parts list

- Please indicate the part name and number when placing your order.
- See the "model specific parts list" about [1] [2].... parts.
- Part without ○ mark on number cannot be sold separately.
- Screw and nuts can be purchased at a hardware store or DIY shop.

No.	Code	Part name	Sales unit
1	① 1801B *	Main frame	1pc.
	46	Cord bush (rubber)	-
2	② [1]	Pressure lever holder	1pc.
	37	Liner bush (0606)	-
	110	Round screw (4X6)	-
3	③ [2]	Pressure lever	1pc.
	21	Pressure adjustment axle	-
	38	Liner bush (0806)	-
	106	Flat screw (5X12)	-
4	④ 18004 *	Lever link	1pc.
	20	Pressure axle	-
	25	Link roller	-
	39	Spring pin	-
5	⑤ [3]	Pressure plate with rubber	1pc.
	34	Silicone rubber	1pc.
6	⑥ 18006 *	Frame cover	1pc.
	108	Binding screw (4X8)	-
7	⑦	Table	1pc.
	115 18115 *	Plastic nut (white) 5mm	5pcs./set
8	⑧ 18008 *	Electrode set	2pcs./set
	9 18009 *	Electrode cover	2pcs./set
	14	Electrode	-
	15	Electrode lever	-
	27	Electrode spring	-
	36 30480 *	Heater securing screw	2pcs./set
	40	Spring pin	-
	41	Spring pin	-
	57	Heat-resistant piece	-
	102	Hexagon socket screw	-
	109	SUS screw	-
	113	Binding screw	-
9	⑨ 18009 *	Electrode cover	2pcs./set
10	⑩ 18010 *	Lever receiver	1pc.
	101	Hexagon screw (6X10)	-
11	⑪ 18011 *	Parts cover	1pc.
	107	Wing bolt (4X10)	-
12	⑫ 18012 *	Cord cover	1pc.
	122	Round screw (4X16)	-
16	⑯ 18016 *	Transformer fixing plate	2pcs./set
	103	Round screw (4X55)	-
18	⑰ 18018 *	Teflon roll bar fastening plate	2pcs./set
	115 18115 *	Plastic nut (white) 5mm	5pcs./set
	117	Round screw (5X15)	-

No.	Code	Part name	Sales unit
19	⑲ 18019 *	Microswitch plate	1pc.
	112	Round screw (3X12)	-
22	⑳ 18022 *	Lever fulcrum pin	1pc.
	24	Lever fixing collar	-
	110	Round screw (SUS 4X6)	1pc.
23	㉓ 18023 *	Link pin	1pc.
26	㉖ [5]	Lever return spring	1pc.
	118	Round screw (4X12)	-
	119	Nut (4mm)	-
28	28 18028 *	Pressure spring	2pcs./set
29	29 18029 *	Air damper	1pc.
	17	Damper bracket	-
	104	Round screw (M3X6)	-
31	㉑ 18031 *	Cord bush (rubber)	1pc.
	47	Cord fastener	-
34	㉔ [6]	Silicone rubber	1pc.
35	㉕ [7]	Teflon roll bar	2pcs./set
36	㉖ 30480 *	Heating element mounting screw	2pcs./set
42	㉚ [8]	Transformer	1pc.
43	㉛ 18043 *	Microswitch	1pc.
44	㉜ [9]	Timer	1pc.
	114	Tapping screw (3X6)	-
45	㉝ - *	Power cord (with plug)	1pc.
48	㉘ 18048 *	Rubber foot	3pcs./set
	111	Round screw (4X12)	-
49	㉙ [10]	Timer plate	1pc.
53	㉛ 39411	Glass tape 13mmX5M	1roll
	39412	Glass tape 13mmX10M	1roll
54	㉞ [11]	Teflon roll bar	2pcs./set
55	㉟ [12]	Heating element 5mm width	20pcs./set
58	㉡ 18058 *	Pressure adjusting screw	1pc.
	32	Torque ring rubber	-
	33	Fiber washer	-
	120	Nut (5mm)	-
	121	Flat washer (5mm)	-
59	㉣ [13]	Heating element 2mm width	20pcs./set
60	㉤ [14]	Teflon sheet with roll bar	2pcs./set
71	㉧ 18071 *	Holder cushioning rubber	4pcs./set
72	㉨ [15]	Sarcon sheet	2pcs./set
115	⑮ 18115 *	Plastic nut (white) 5mm	5pcs./set
	117	Round screw (5X15)	-
-	- [16]	Spare parts set (for 2mm)	1set
-	- [17]	Spare parts set (for 5mm)	1set

### Special Parts List

Code	Parts name	FS-215	FS-315
[1]	Pressure lever holder	18002	19002
[2]	Pressure lever	18003	19006
[3]	Pressure plate (with rubber)	15004	17040
[4]	Table	18007	19007
[5]	Lever return spring	18026	19026
[6]	Silicone rubber	15244	17400
[7]	Teflon roll bar	33193	30193
[8]	Transformer	-	-
[9]	Timer	-	-

Code	Parts name	FS-215	FS-315
[10]	Timer plate	-	-
[11]	Teflon sheet	33192	30192
[12]	Heating element 5mm width	20683	19009
[13]	Heating element 2mm width	20681	30241
[14]	Teflon sheet with roll bar	33191	30191
[15]	Sarcon sheet	20505	19005
[16]	Spare parts set (for 2mm)	39702	39704
[17]	Spare parts set (for 5mm)	39703	39705

