

# MODEL RX-701/711 Series

## SERVICE MANUAL



**TAIYO ELECTRIC IND. CO., LTD.**

### **NOTE**

Read this service manual carefully before performing service on the RX-701/711 Soldering Station Series. Also note that this service manual is for use by **goot** distributors only. It is not for general or distribution.

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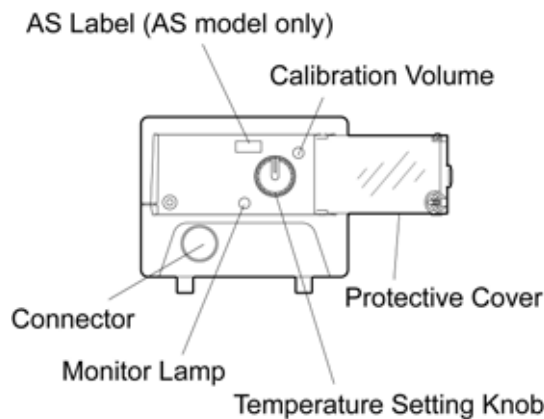
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## SPECIFICATIONS

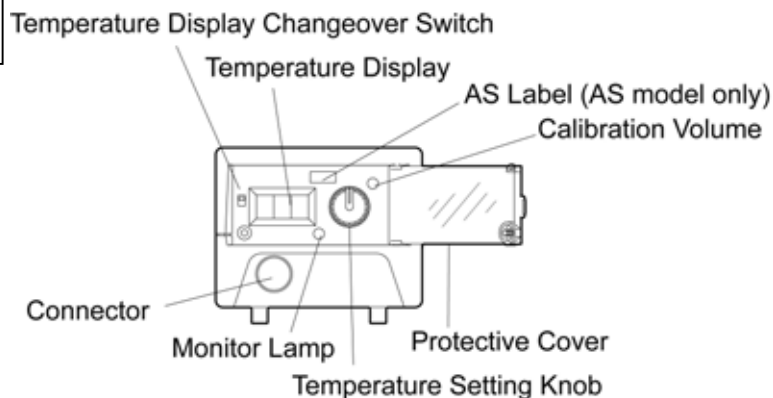
<b>MODEL</b>		RX-701/701L/701AS/701LAS	RX-711/711L/711AS/711LAS
<b>Voltage</b>		110-130, 220-240V AC 50/60Hz	
<b>Power Consumption</b>		65W	
<b>Output Voltage</b>		24V 60W	
<b>Temperature Setting Range</b>		200-450°C (392-842°F)	200-480°C (392-896°F)
<b>Insulation Resistance</b>		Over 100M / 500V DC	
<b>Size</b>	Control Unit	146(L)X115(W)X98(H)mm, (5.7(L)X4.5(W)X3.9(H) inch)	
	Soldering Unit	195mm (7.7 inch) (w/o cord)	
<b>Weight</b>	Control Unit	1.5kg (3.3 lb) (w/o cord)	
	Soldering Unit	41g (0.09 lb) (w/o cord)	
<b>Soldering Unit-Control Unit Cord Length</b>		1.2m (3.9 ft)	
<b>AC Power Cord Length</b>		1.2m (3.9 ft) (3 core cord/ground plug)	
<b>Leak Voltage</b>		Under 2mV	
<b>Ground Resistance</b>		Under 2	

### FRONT VIEW

RX-701 Series



RX-711 Series

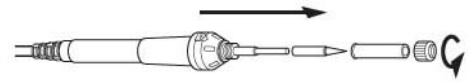


## 1. Operation Check

Problem	Cause	Countermeasure	Page
Power does not turn ON	Blown fuse	Replace the fuse	15
	Damaged power cord	Replace the power cord	17
	Damaged transformer or main PCB	Replace the transformer or main PCB	18/21
Tip does not heat up	Damaged heater	Replace the heater	10
	Damaged cord of the hand piece	Replace the cord of the hand piece	11
	Damaged main PCB	Replace the main PCB	21
The temperature increases too much	Damaged main PCB	Replace the Triac on the PCB	21
The heater heats up but the abnormal digital display is shown.	Damaged front panel PCB	The connector, switch, or IC is damaged. Replace the entire PCB.	20
The adapter is damaged.	-	Replace the adapter	8
Hand piece is damaged.	-	Replace the hand piece Assy (The hand piece is integrated with other parts, so the Assy cannot be replaced individually).	11

## 2. How to Replace the Tip

1. Remove the collar by turning it in the counterclockwise direction.
2. Pull off the heater barrel. Pull off the tip from the heater.
3. In order to stop the tip and heater from sticking together, a tip casing is fitted in the tip.

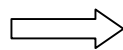
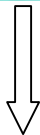


When removing the tip, the tip casing may stay on the heater. The tip casing should be removed from the heater before mounting the new tip.

4. After mounting the new tip with casing on the heater, reassemble by reversing the disassembly procedures.

### NOTE:

To prevent the tip from sticking, periodically remove the tip from the heater and remove any oxidation that may have built up inside.



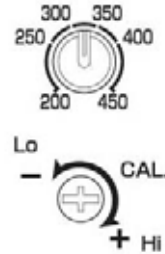
### 3. How to Calibrate the Temperature of the Tip

#### Temperature calibration (A tip thermometer is required)

Procedure:

##### A. RX-701 Series only

1. Set the required temperature for calibration by using the temperature setting knob.
2. Measure the tip temperature with the tip thermometer after the set temperature becomes stable.
3. Adjust so that the measured temperature matches the set temperature by turning the calibration volume (CAL.) slowly using a Standard (-) screwdriver while measuring.



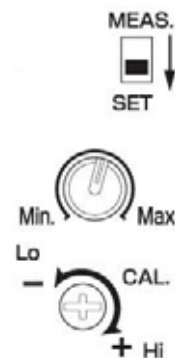
The tip temperature increases by turning the calibration volume (CAL.) clockwise and decreases by turning it counterclockwise.

**<Example>** Temperature calibration at 350°C.

1. Set the temperature at 350°C by using the temperature setting knob.
2. Measure the tip temperature with the tip thermometer after set temperature becomes stable.
3. If the tip thermometer displays 330°C for example, adjust the temperature of soldering tip to 350°C by turning the calibration volume (CAL.) clockwise slowly using a Standard (-) screwdriver while measuring.

##### B. RX-711 Series only

1. Set the temperature display changeover switch to the SET side.
2. Set the required temperature for calibration on the digital display by using the temperature setting knob.
3. Measure the tip temperature with the tip thermometer after the set temperature becomes stable.
4. Adjust so that the measured temperature matches the set (displayed) temperature by turning the calibration volume (CAL.) slowly using a Standard (-) screwdriver while measuring.



The tip temperature increases by turning the calibration volume (CAL.) clockwise and decreases by turning it counterclockwise.

**<Example>** Temperature calibration at 350°C.

1. Set the temperature display changeover switch to the SET side.
2. Set the temperature at 350°C on the digital display by using the temperature setting knob.
3. Measure the tip temperature by the tip thermometer after the set temperature becomes stable.
4. If the tip thermometer displays 330°C for example, adjust the temperature of soldering tip to 350°C by turning the calibration volume (CAL.) clockwise slowly using a Standard (-) screwdriver while measuring.

**NOTE 1:**

**This soldering station is shipped with the temperature calibrated to 350°C.**

**The tip temperature and the display temperature difference at 200 °C and 450°C (RX-701 series) and 480°C (RX-711 series) is  $\pm 10^{\circ}\text{C}$ . There may be a difference depending on the tip thermometer used.**

**NOTE 2:**

**To prevent the components on PCB and/or your soldering iron from damage, be sure to do the temperature calibration after replacing the soldering unit or the heater.**

## HOW TO CLEAN THE HOUSING

Do not at any time allow gasoline, petroleum-based products, penetrating oils, etc. to come in contact with the plastic parts. They contain chemicals that can damage, weaken, or destroy plastics.

## 4. How to Replace the Adapter

4.1.



アダプタ固定ねじをはずします（ドライバーNo.1 使用）。  
Remove the fixing screw on the adapter, using a Phillips (+) screwdriver.

4.2.



しるし  
Mark

しるし Mark



アダプタを回し、しるしを合わせ外します。  
Turn the adapter, and align the mark to remove.

（拡大図）(Enlarged Picture)

4.3.



矢印の方向に引き抜きます。  
Pull off the adapter in the direction of the arrow.



4.4.



アース端子を外します。

Disconnect the grounding terminal connector.

4.5.



はずしたところ。

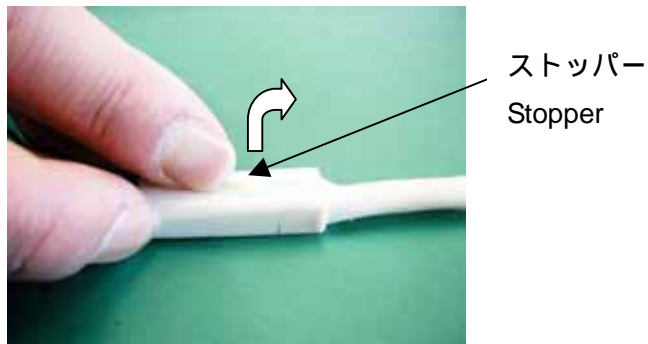
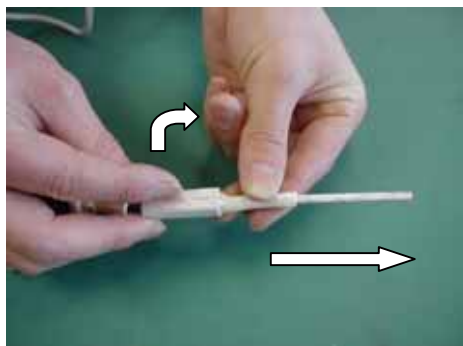
アダプタを交換します。

アダプタを交換後、分解したのとは逆の順序で組み立てます。

The photo shows the removed adapter. Replace the adapter, and then repeat the steps 5.1-5.4. in the reverse order to reassemble.

## 5. How to Replace the Heater

Before carrying out the following steps, please follow the section 4, "How to replace the adapter" and disassemble the tip.



( 拡大図 ) (Enlarged Picture)

コネクタ部のストッパーを少し横にずらして外し、コネクタ部を引き抜きます。Disconnect the connector, by sliding the stopper sideways slightly, and pull the front half in the direction of the arrow.



ヒーターを抜き取いたところ。

The heater is separated.



グリップ アセンブリを交換します。

グリップ アセンブリ交換後は、取り外したときとは逆の順序で組み立てます。グリップとコードの分解については次ページを参照してください。

Replace this assembly with a new one. Repeat the steps in reverse order to reassemble. To disassemble the hand piece and cord, please refer to the next page.

## 6. How to Replace the Hand Piece Assembly or the Cord of the Hand Piece

**NOTE) Replacing the cord is a complicated process that should be done by a skilled worker. If you feel you are unable to do this, please contact the customer service section at Taiyo in Japan and send the product to us for repair.**

6.1.



こて部コードの交換方法を説明します。

This section describes how to replace the cord of the hand piece.

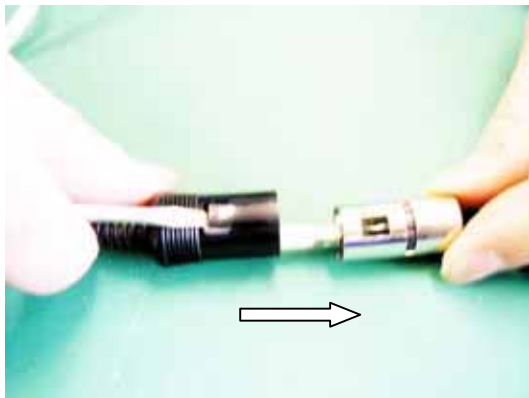
6.2.



まず、コード差込口を分解します。図のようにマイナスドライバー先端をカバーのすきまから入れて少し持ち上げます。

Insert the Standard (-) screwdriver between the connector cover and the underlying metal part and lift up the black cover slightly in the direction of the arrow.

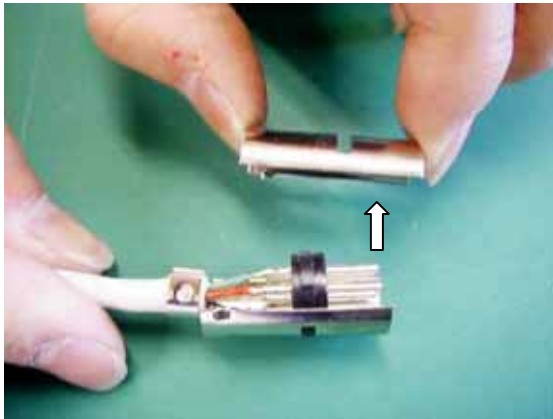
6.3.



ドライバーで持ち上げた状態で、金属部分を持って引き出します。

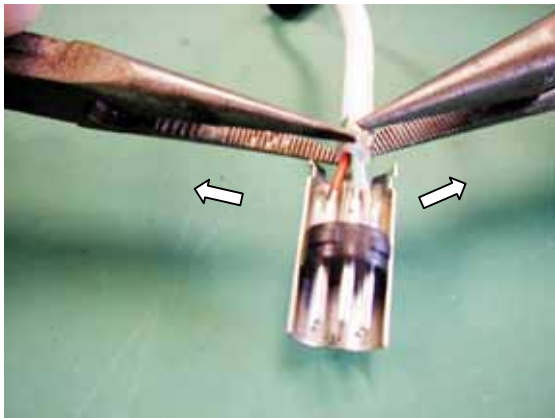
With the connector cover lifted up with the screwdriver, hold the metal housing and pull it out from the cover in the direction of the arrow.

6.4.



金属部分の上ぶたを取り外します。  
Remove the upper half of the metal housing.

6.5.



写真のように、ペンチで根元の金属部分の押さえをゆるめます。  
Increase the clearance so the cord can be removed.

6.6.



金属部分の下ぶたを取り外します。  
Remove the lower half of the metal housing.

6.7.



コネクタを万力などで固定し、はんだこてでリード線を外します。

Secure the connector in a vise, and disconnect the lead wires using soldering iron.

6.8.



リード線を取り外したところ。

Lead wires are removed.

6.9.



矢印の方向へコードを引き抜きます。  
コードを交換後、分解したのとは逆の手順で、再びリード線をはんだ付けし、コードを元通りに組み立てます。コネクタカバーの付忘れに注意してください。

Pull out the cord in the direction of the arrow, and replace the cord. Solder the lead wires again following the illustration on page 14, and attach the parts. Then, repeat the steps above in the reverse order to reassemble. Please note not to forget to mount the connector cover on the hand piece when reassembling.



## リード線をはんだ付けする際の注意点

### Important Points When Soldering the Lead Wires

リード線をはんだ付けする際は、以下の図に従って行って下さい。

When soldering the lead wires, follow the illustration and table below.

[The view from the hand piece side]

はんだ方向から見た図



Pin Number	Cord Color
1	RED (for SENSOR)
2	NOT USED
3	GREEN (for GROUNDING)
4	BLUE (for HEATER)
5	BLACK (for COM)

シリコン ケーブル  
Cord

コネクタカバー  
Connector Cover

## 7. How to Replace the Fuse

7.1.



Turn the control unit upside down, and remove the four (4) screws using a Phillips (+) screwdriver.

本体の上下をひっくり返し、ねじ（４箇所）を外します。

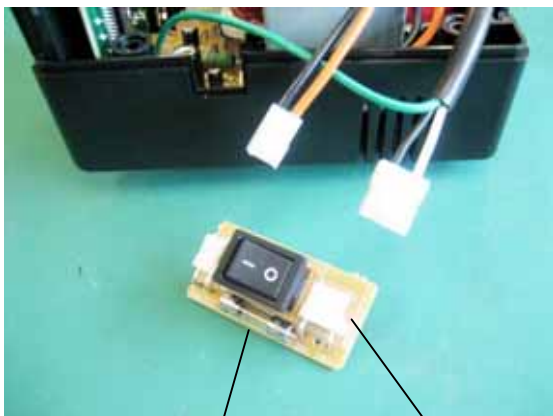
7.2.



本体を元の向きにし、上ケースを外します。

Carefully turn the control unit upright, holding both cases securely and remove the upper control unit case.

7.3.



Fuse

ON/OFF Switch PCB

Disconnect the connector from the ON/OFF Switch PCB. If the fuse looks burned (damaged), go to step 7.5.

ON/OFF スイッチ PCB からコネクタを取り外します。この時点でヒューズが断線していると分かる場合は手順 7.5 へ。

7.4.



ヒューズが切れているかどうか不明の時は、以下の手順に従ってください。  
If you cannot visually tell if the fuse is blown or not, please follow the steps below.

Check the fuse resistance value with a tester. If the fuse resistance value is 1 or below, there is no problem with the fuse. If the tester reads O.L. (overload), there is a problem with the fuse. Replace it. And then, repeat the same steps in reverse order to reassemble the unit.

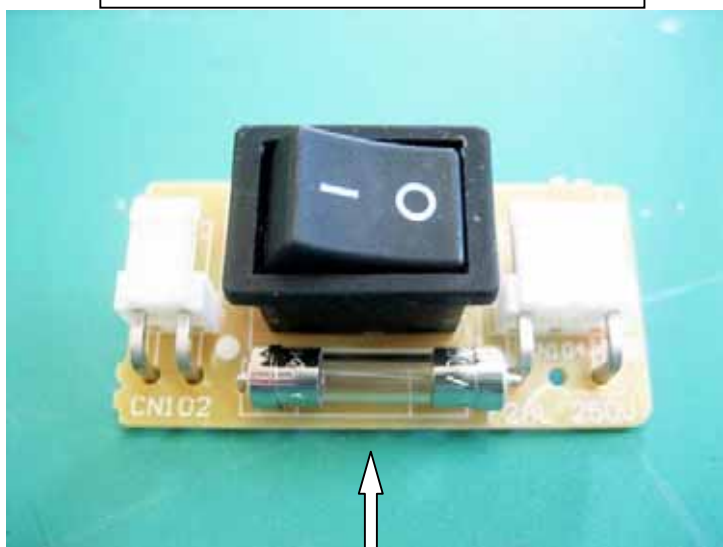
ヒューズの抵抗値をテスターで確認します。

ヒューズの抵抗値が 1 以下であれば、問題ありません。

抵抗計でオーバーロード (O.L.) と表示された場合は、ヒューズに問題があります。はんだこてを使って交換してください。交換後、逆の手順で組み立て直してください。

7.5.

ヒューズの位置 (拡大図)  
Position of the Fuse (Enlarged Picture)



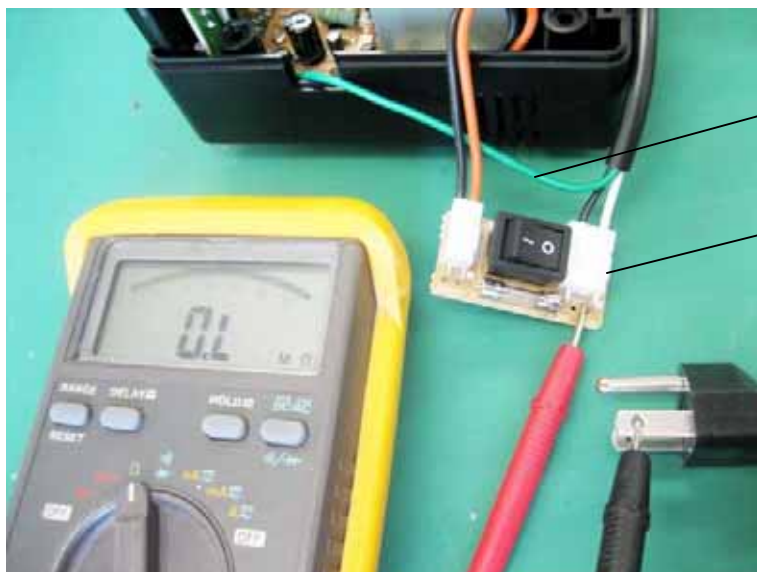
If the fuse is damaged, replace the fuse. This fuse is soldered to the ON/OFF Switch PCB. Remove this fuse using a heated solder iron, and replace with a new one.

ヒューズが損傷している場合、交換します。このヒューズははんだ付けされているので、はんだこてを使用して取り外し、新しいヒューズに交換してください。

Fuse



## 8. How to Replace the Power Cord (Continued from Step 7.2.)



アースリード線  
Grounding Lead Wire  
電源コードコネクタ  
Power Cord Connector

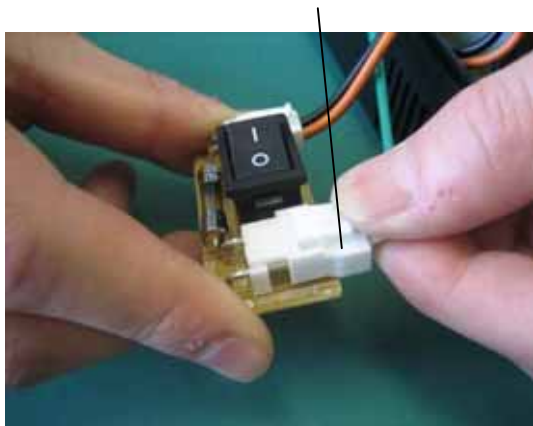
The power cord may be the cause the problem. Measure the resistance value between the power plug and the connector lead wire of the power cord. If the resistance value of the power cord is 5  $\Omega$  or below, there is no problem with the power cord. If the tester reads overload (O.L.), there is a problem with the power cord, so replace it. Also if the power cord is damaged, replace it.

To replace the power cord, unplug the power cord connector from the ON/OFF Switch PCB and the end of the grounding lead wire connector from the terminal.

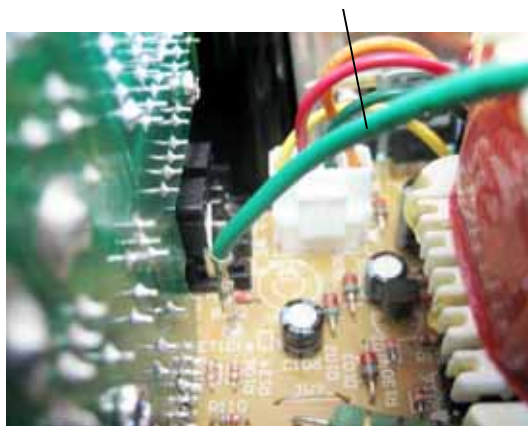
電源コードが問題と思われる場合、または電源コードが損傷している場合は、電源プラグと電源コードのコネクタリード間の抵抗値を測定してください。電源コードの抵抗値が 5  $\Omega$  以下の場合には問題ありません。抵抗値の値が O.L. の場合は電源コードに問題があります。交換してください。

交換方法：電源コードコネクタとアースリード線の端子を外し、電源コードを交換します。

電源コードコネクタ Power Cord Connector



アースリード線 Grounding Lead Wire



## 9. How to Replace the Transformer

9.1.



Turn the control unit upside down, and remove the four (4) screws using a Phillips (+) screwdriver.

本体の上下をひっくり返し、ねじ（４箇所）を外します。

9.2.



本体を元の向きにし、上ケースを外します。

Carefully turn the control unit upright, holding both cases securely and remove the upper control unit case.

9.3.



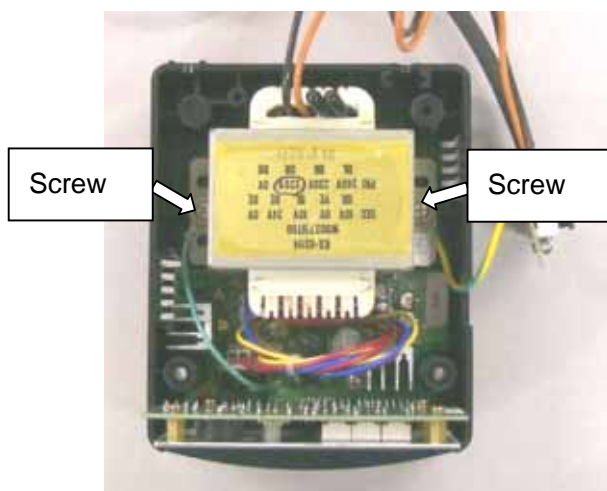
スイッチ PCB につながっているトランスのコネクタを外します。

Disconnect the connector of the transformer that is connected to the switch PCB.

トランスからのコネクタ

Connector connected to the transformer

9.4.



Remove the screws on each side of the transformer using a Phillips (+) screwdriver, and remove the transformer from the control unit.

Take care not to drop the screws and the washers inside the control unit.

トランス両側にあるねじを外し、コントロールユニットからトランスを取り外します。

ワッシャその他をコントロールユニット内に落とさないよう気を付けてください。



( 拡大図 ) (Enlarged Picture)

9.5.



トランスを本体の外に出し、メイン PCB につながっているトランスのコネクタを外します。

Take the transformer out of the unit. Unplug the transformer connector that is connected with the main PCB.

9.6.

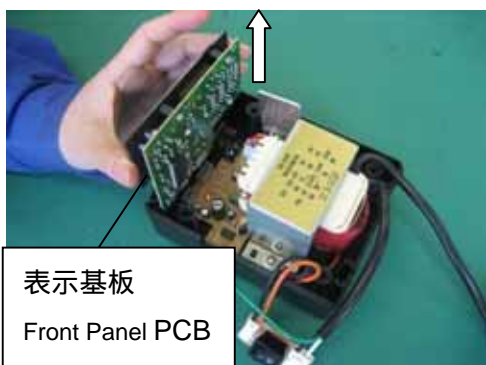


トランスフォーマーを交換後、今までとは逆の順序で組み立てます。

Replace the transformer. Then, repeat the steps 10.1-10.5 in the reverse order to reassemble.

## 10. How to Replace the Front Panel PCB

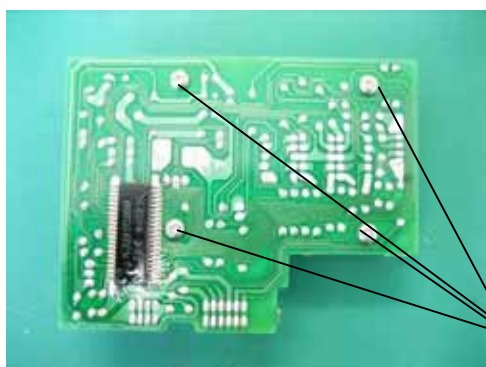
10.1



表示基板を外します。

Pull up the front panel PCB in the direction of the arrow to remove.

10.2.



ねじを外し、フロントパネルから表示基板を外します。

Remove the four (4) screws using a Phillips (+) screwdriver, and remove the front panel PCB from the front panel.



表示基板を交換し、逆の手順で組み立てます。

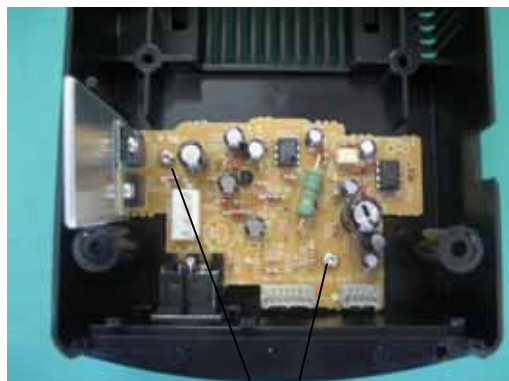
基板上的部品を交換したい場合は別紙 1 をご覧下さい。

Replace the front panel PCB. Repeat the steps in the reverse order to reassemble. To change individual parts, see the "Attached Sheet 1" on page 24.

## 11.How to Replace the Main PCB

11.1. 手順 10.1. ~ 10.4. を繰り返してください。Repeat the steps 10.1.-10.4..

11.2.



ねじ Screws

ねじ 2 個をはずし、メイン PCB を取り外します。  
Remove the two (2) screws using a Phillips (+) screwdriver and take out the main PCB.

11.3.



故障部品の特定は難しいので基板ごと交換してください。交換後は、逆の手順で組み立てます。  
基板上の部品を交換する場合には、別紙 2 を参照してください。

Replace the main PCB. Then repeat the steps in reverse order to reassemble.

If replacing the parts on the PCB, please see the “ATTACHED SHEET 2” on page 25 for details.

## RX-711AS Tip Temperature Check

We discuss here how to know if the tip temperature is the same temperature shown in the display of the unit. And if there is a difference between the actual temperature and the measured temperature by the thermometer, please follow the instruction below, and solve the problem.

### [Necessary Items]

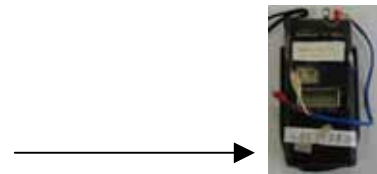
- RX-711AS Unit



- Tip with thermocouple



- Thermometer for K-type thermocouple



### [How To Check The Tip Temperature]

1. Change the current tip to the tip with the thermocouple.



2. Attach the thermometer for K-type thermocouple to the thermocouple of the tip.



Note: Be careful to connect the thermocouple with the correct electrode. **The red clip is positive, the color other than red is negative.**

- \* If the thermocouple connected reversely, the temperature shown in the display would be lower. In such a case, re-connect the thermocouple with right polarity and measure the temperature again.

3. Set temperature display changeover switch to the "SET" side.

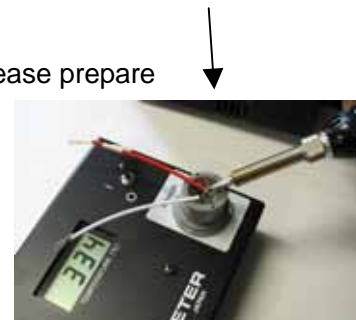


4. Read the tip temperature.



5. Remove the thermocouple of the thermometer unit from the tip, and measure the tip temperature with the tip thermometer.

(The right picture shows the **goot** Tip Temperature Gauge. Please prepare the gauge like this when measuring the tip temperature).



## [Compare The Result]

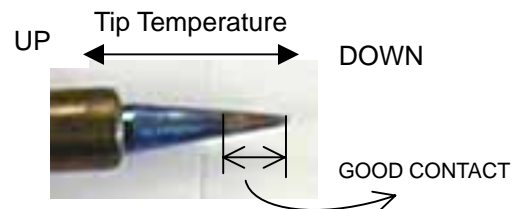
### **Problem One: There are differences between the temperature measured in Step 3 and Step 5.**

CAUSE A: The contact point of the tip thermometer is not proper.

Step 3 connection assured the right point of the thermocouple with thermometer, while Step 5 connection point is not correct/stable, and it varies each time measured, depending on the contact point of the thermocouple and thermometer.

CAUSE B: The measurement point on the tip is not proper.

The temperature rise is proportional to the distance between the measurement point and the tip apex. The measurement point is unchanged when measured in Step 3, while the measurement point may change each time it is measured in Step 5.



CAUSE C: The tip thermometer is not calibrated.

The tip thermometer has to be calibrated when taking the measurement, because temperature is not reliable without calibrating the thermometer itself.

These are the main reasons for the deviation of the real measured tip temperature and the temperature displayed by the thermometer.

## [Conclusion]

Calibration done by Taiyo Electric Ind. Co., Ltd. is a highly reliable calibration because the thermocouple is connected directly to the tip. Even it is used repeatedly, the reliability is stable. Also, the thermometer unit used for the calibration is calibrated once a year based on the ISO standards.

We have been contacted by our users and dealers about the temperature difference between measured temperature and the tip temperature thermometer from time to time and many of the problems have been solved, following the procedures explained above.

So, please read carefully the description above, and we hope this helps find a solution to this problem. If you carried out the processes described above and still cannot solve the problem, please do not hesitate to contact us.

## [ATTACHED SHEET 1]

(Continued from 10.2.)

### How to disassemble the parts on the Front Panel PCB

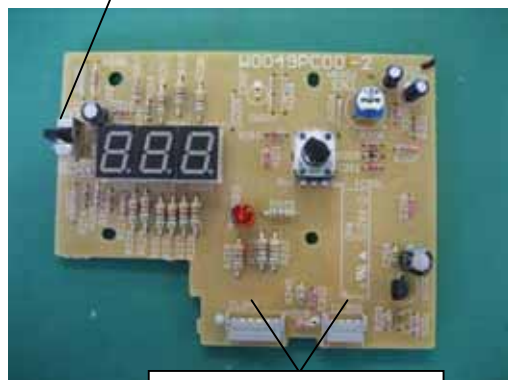


表示基板上の部品を交換する場合は、以下の説明にしたがってください。

Replace the Front Panel PCB. Repeat the steps in the reverse order to reassemble.

10.3.

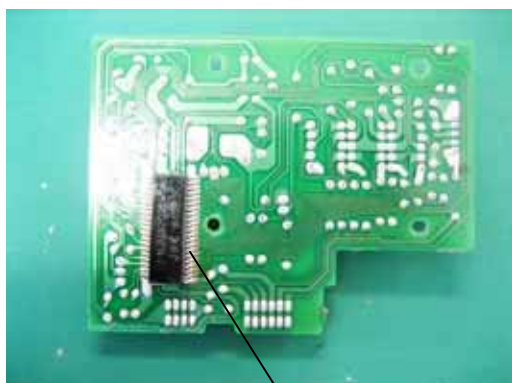
表示切替スイッチ Display Switch



コネクタ Connector

表示切替スイッチ、またはコネクタの接触不良の可能性がります。交換してください。The display switch may have a problem or the connector with loose connection may have a problem. Replace the appropriate parts if needed.

Part Name	Part Number
Display Switch	W0010SM00
Connector (small)	W0511KC00
Connector (large)	W0513KC00



IC

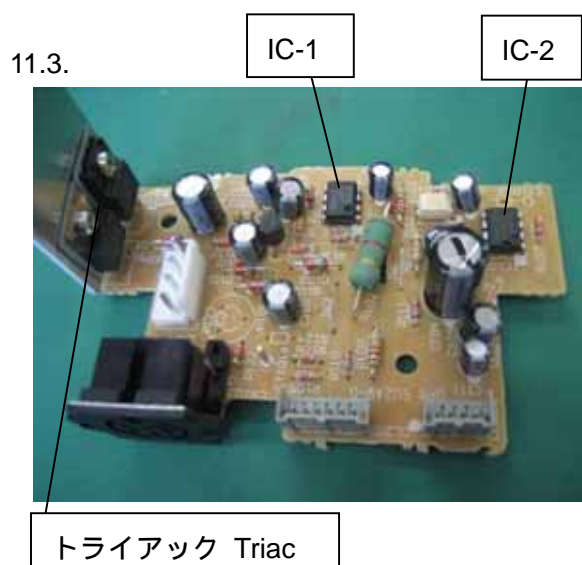
上記で直らない場合、IC が故障している可能性があります。IC の交換は難しいので、おすすめしません。IC が故障している場合は基板ごと交換してください。If the problem cannot be solved by exchanging the parts like the case above, IC may possibly have problems. But replacing the IC is very difficult. So, in this case, replace the Front Panel PCB instead of replacing the IC only.



## [ATTACHED SHEET 2]

(Continued from 11.2.)

### How to disassemble the parts on the Main PCB



故障部品の特定は難しいので基板ごとの交換をお奨めします。部品を換える場合は、トライアック、IC-1、2 を交換してみてください。交換後は、分解したのとは逆の手順で組み立てます。

We recommend that the main PCB should be replaced instead of replacing the parts individually, because locating the problematic part(s) is very difficult. When you find which parts you should replace, we recommend you change the Triac, IC-1, or IC-2. Then repeat the steps in reverse order to reassemble.

(Please refer to the following Part Number when placing an order.)

Part Name	Part Number
Triac	W0002QT00
IC-1	W0005QA00
IC-2	W0001QA00

## APPENDIX-1: Replacement Tips and Parts List

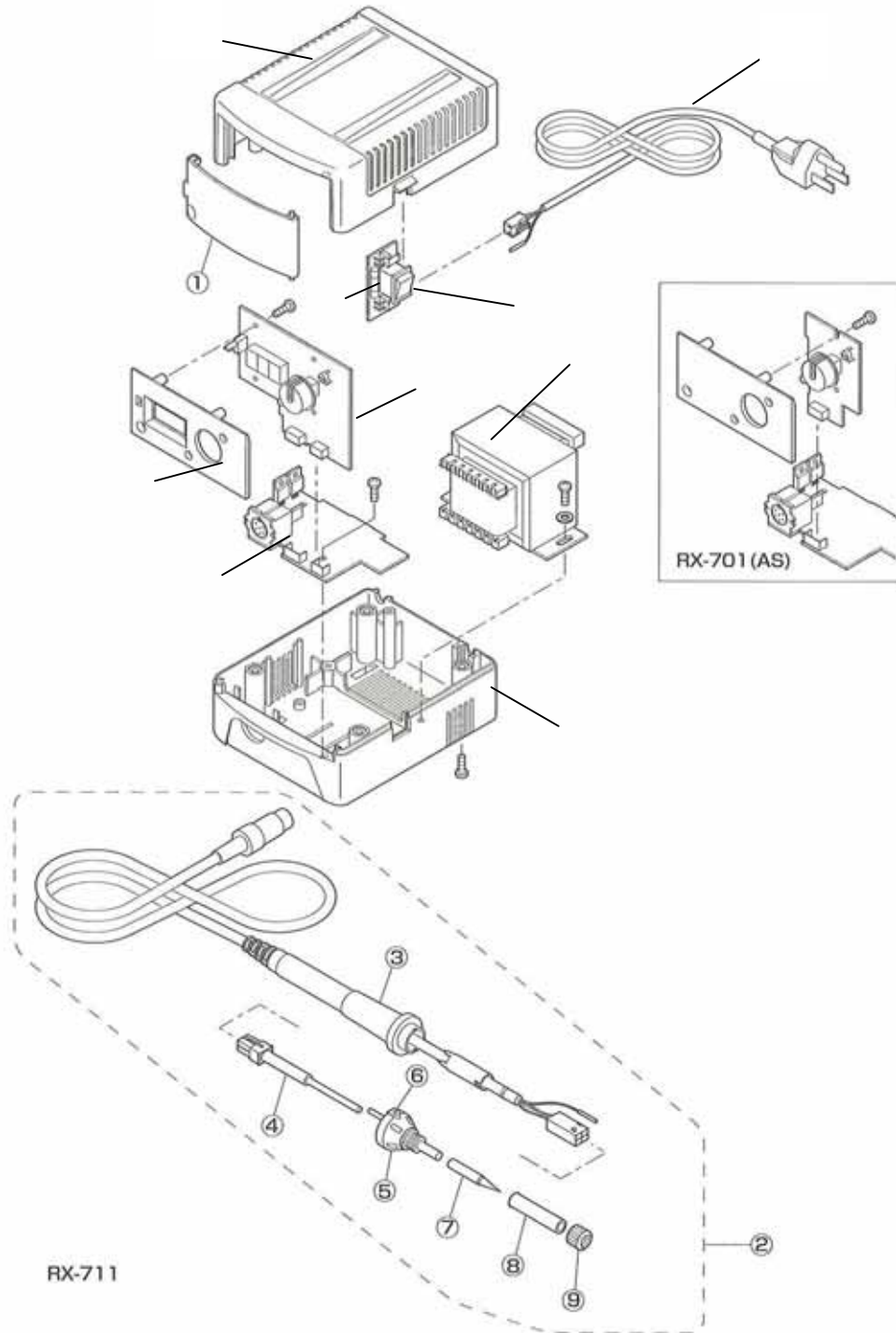
When ordering replacement parts, please refer to the following Part Name and Part Number.

NOTE: Taiyo reserves the right to make slight changes to replacement parts Part Name and or Part Number from time to time. For the parts that are not listed here, please contact the International Marketing at Taiyo Electric (Japan).

No.	Part Name	Part Number	Note	
	Protective Cover	A0810DX00		
	Soldering Unit	A0853AG00	RX-70G	M size tips only
		A0853EG00	RX-70GAS	
		A0853JG00	RX-70LG	L size tips only
		A0853LG00	RX-70LGAS	
	Rubber Grip Cover	T0008CM00		
	Heater	B0852AH00	RX-70H	
	Adapter	A0670DL00	RX-70G	M size tips only
		A0680DL00	RX-70GAS	
		A0850KT00	RX-70LG	L size tips only
		A0850MT00	RX-70LGAS	
	Adapter Fixing Screw	T0207ST10	2.6X7	
	Tip	B0672AB00	PX-60RT-B	Standard M size tip
		B0852AB00	RX-70LRT-B	Standard L size tip
	Heater Barrel	T0039MS00	PX-60HP M size tips only	
		T0046MS00	RX-70LHP L size tips only	
	Collar	T0001CS00	TQ-77NUT M size tips only	
		T0012CS00	RX-70LNUT L size tips only	

No.	Part Name	Part Number
	RX-701/711 (AS) ON/OFF SWITCH PCB	B0852LD00
	RX-701 FRONT PANEL PCB	B0852LF00
	RX-711 FRONT PANEL PCB	B0852MF00
	RX-701 MAIN PCB	B0852LB00
	RX-711 MAIN PCB	B0852MB00
	Power Cord AGP for RX-701/711	A0810CG00
	BSP for RX-701/711	A0810PJ00
	CGP for RX-701/711	A0810PM00
	GP for RX-701/711	A0810QB00
	IP for RX-701/711	A0810QD00
	IRAM for RX-701/711	A0810PK00
	KP for RX-701/711	A0810PL00
	SP for RX-701/711	A0810PG00
	W/o P for RX-701/711	A0810PH00
	▼ ULAGP for RX-701/711	A0810HG00
	110V Transformer for RX-701/711	A0810GZ00
	120V Transformer for RX-701/711	A0810JZ00
	220V Transformer for RX-701/711	A0810NZ00
	230V Transformer for RX-701/711	A0810TZ00
	240V Transformer for RX-701/711	A0810YZ00
	RX-701 Front Panel	A0810DM00
	RX-711 Front Panel	A0830DM00
	RX-701/711 Body Upper Case	A0810DT00
	RX-701/711 Body Upper Case (AS)	A0820DT00
	RX-701/711 Body Lower Case	A0810DR00
	RX-701/711 Body Lower Case (AS)	A0820DR00
	Fuse 250V 2A for RX-701/711 (for non-CE)	W0021FS04
	Fuse 250V 2A for RX-701/711 (for CE)	W0021FS14

STRUCTURE OF RX-701/711 SERIES



REPLACEMENT TIPS

### Replacement Tips for M type Soldering Unit

Technical drawings of M-type soldering tips. Each drawing shows a side view and a top view with dimensions. The side view shows the tip length and diameter, and the top view shows the tip diameter and chamfer angle. A blue shaded area indicates the standard tip shape.

- PX-60RT-B: Tip length 17, diameter 26, chamfer R0.5.
- PX-60RT-SB: Tip length 17, diameter 26, chamfer R0.2.
- PX-60RT-1C: Tip length 15, diameter 26, chamfer 45°.
- PX-60RT-2C: Tip length 17, diameter 26, chamfer 45°, diameter 2.1.
- PX-60RT-3C: Tip length 17, diameter 26, chamfer 45°, diameter 2.
- PX-60RT-4C: Tip length 17, diameter 26, chamfer 45°, diameter 3.4.
- PX-60RT-1.6D: Tip length 17, diameter 26, chamfer 45°, diameter 1.6, diameter 0.5.
- PX-60RT-2.4D: Tip length 17, diameter 26, chamfer 45°, diameter 2.4, diameter 0.5.
- PX-60RT-3.2D: Tip length 17, diameter 26, chamfer 45°, diameter 3.2, diameter 0.5.
- PX-60RT-LB: Tip length 25, diameter 26, chamfer R0.2, diameter 2.
- PX-60RT-5K: Tip length 15, diameter 26, chamfer 45°, diameter 2.

Standard

### Round solder-plated tip

Comparison of standard and round solder-plated tips. The standard type is shown as a simple tapered tip, while the round solder-plated type has a rounded tip. The diagrams show the standard type and the round solder-plated type for the following models:

- PX-60RT-1CR: Tip length 15, diameter 26, chamfer 45°, diameter 2.1.
- PX-60RT-2CR: Tip length 17, diameter 26, chamfer 45°, diameter 3.4.
- PX-60RT-3CR: Tip length 17, diameter 26, chamfer 45°, diameter 2.
- PX-60RT-4CR: Tip length 17, diameter 26, chamfer 45°, diameter 3.4.

### Replacement Tips for L type Soldering Unit

Technical drawings of L-type soldering tips. Each drawing shows a side view and a top view with dimensions. The side view shows the tip length and diameter, and the top view shows the tip diameter and chamfer angle. A blue shaded area indicates the standard tip shape.

- RX-70LRT-B: Tip length 20, diameter 28, chamfer R0.5.
- RX-70LRT-2B: Tip length 20, diameter 28, chamfer R1.0.
- RX-70LRT-SB: Tip length 20, diameter 28, chamfer R0.2.
- RX-70LRT-2C: Tip length 20, diameter 28, chamfer 45°, diameter 2.1.
- RX-70LRT-3C: Tip length 20, diameter 28, chamfer 45°, diameter 3.1.
- RX-70LRT-4C: Tip length 18, diameter 28, chamfer 45°, diameter 3.4.
- RX-70LRT-5C: Tip length 15, diameter 28, chamfer 45°, diameter 5.2.
- RX-70LRT-2.4D: Tip length 20, diameter 28, chamfer 45°, diameter 2.4, diameter 0.5.
- RX-70LRT-3.2D: Tip length 20, diameter 28, chamfer 45°, diameter 3.2, diameter 0.5.
- RX-70LRT-5K: Tip length 17, diameter 28, chamfer 45°, diameter 2.

Standard

### Round solder-plated tip

Comparison of standard and round solder-plated tips. The standard type is shown as a simple tapered tip, while the round solder-plated type has a rounded tip. The diagrams show the standard type and the round solder-plated type for the following models:

- RX-70LRT-2CR: Tip length 20, diameter 28, chamfer 45°, diameter 2.1.
- RX-70LRT-3CR: Tip length 20, diameter 28, chamfer 45°, diameter 3.1.
- RX-70LRT-4CR: Tip length 18, diameter 28, chamfer 45°, diameter 3.4.
- RX-70LRT-5CR: Tip length 15, diameter 28, chamfer 45°, diameter 5.2.

## REPLACEMENT TIPS LISTS

### [M Type Replacement Tips]

Part Name	Part Number
PX-60RT-B	B0672AB00
PX-60RT-SB	B0672AS00
PX-60RT-1C	B0672BC00
PX-60RT-2C	B0672CC00
PX-60RT-3C	B0672DC00
PX-60RT-4C	B0672EC00
PX-60RT-1.6D	B0672BD00
PX-60RT-2.4D	B0672CD00
PX-60RT-3.2D	B0672DD00
PX-60RT-LB	B0672AL00
PX-60RT-5K	B0672FK00
PX-60RT-1CR	B0672BF00
PX-60RT-2CR	B0672CF00
PX-60RT-3CR	B0672DF00
PX-60RT-4CR	B0672EF00

### [L Type Replacement Tips]

Part Name	Part Number
RX-70LRT-B	B0852AB00
RX-70LRT-2B	B0852CB00
RX-70LRT-SB	B0852AS00
RX-70LRT-2C	B0852CC00
RX-70LRT-3C	B0852DC00
RX-70LRT-4C	B0852EC00
RX-70LRT-5C	B0852FC00
RX-70LRT-2.4D	B0852CD00
RX-70LRT-3.2D	B0852DD00
RX-70LRT-5K	B0852FK00
RX-70LRT-2CR	B0852CF00
RX-70LRT-3CR	B0852DF00
RX-70LRT-4CR	B0852EF00
RX-70LRT-5CR	B0852FF00

## APPENDIX-2: RX-701/711 Series - Service & Repair Record

Keeping records of service and repair is important for providing product feedback to the manufacturer. These records are also necessary for validating claims for replacement parts/components needed to carry out such service and repair. Please make a copy of this page and fill in the following information after receiving the item for service or repair from the customer. Please return this completed form to Taiyo in Japan via Fax or e-mail.

### Customer Information

Name	
Address	
Telephone	
Trouble/Problem	
Name of Dealer/Distributor	

### Product Condition

Check the item against the following criteria before plugging it in.

Packaging	<input type="checkbox"/> With <input type="checkbox"/> Without <input type="checkbox"/> Reusable <input type="checkbox"/> Replace
ST-77 Stand	<input type="checkbox"/> With <input type="checkbox"/> Without <input type="checkbox"/> Reusable <input type="checkbox"/> Replace
Operation Manual	<input type="checkbox"/> With <input type="checkbox"/> Without <input type="checkbox"/> Reusable <input type="checkbox"/> Replace
Tip	<input type="checkbox"/> With (Condition: _____ ) <input type="checkbox"/> Without <input type="checkbox"/> Reusable <input type="checkbox"/> Replace
Hand Piece	<input type="checkbox"/> With (Condition: _____ ) <input type="checkbox"/> Without <input type="checkbox"/> Reusable <input type="checkbox"/> Replace
Control Unit	<input type="checkbox"/> No damage to exterior <input type="checkbox"/> Damage due to being dropped <input type="checkbox"/> Melted due to heat
Power Cord and Plug	<input type="checkbox"/> Damaged (Condition: _____ ) <input type="checkbox"/> Undamaged
Ground Resistance	Measure the resistance between the tip and ground using a tester. <input type="checkbox"/> PASS : Approx. 2 <input type="checkbox"/> FAIL : Over 2
Insulation Resistance	Measure the insulation resistance between the tip and the plug using a insulation resistance meter 500V DC <input type="checkbox"/> PASS : Over 100M (DC500V) <input type="checkbox"/> FAIL : Under 100M (DC500V)
Serial Number	

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