



# ULTRASONIC MINI-WELDER

## QUPPA “キューツパ”

### – Instruction Manual –



Warning : For your safety, read this instruction manual thoroughly and have a good understanding of its contents.



Warning : Keep this instruction manual in a handy place close from the machine so that you can read the manual as necessary.

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**Asahi Industry Co.,Ltd.**

Thank you for purchasing our product.

- For your safety, read this instruction manual thoroughly and have a good understanding of its contents.
- Keep this instruction manual in a safety place so that you can read the manual as necessary.
- Give this instruction manual to new owner, when you resell or transfer.
- We can't bear the responsibility of the Product Liability (PL), when there is a danger for physical injuries to the user and material damages to other objects if the proper instruction for the operation of the welder is ignored and if the safety cautions are not observed and adhered to.

- Please do not copy this document or any part of it without prior permission.
- Due to our policy of ongoing product improvement, there may be some variations between the contents of this manual and the actual equipment.
- We ask that you contact this company if you feel that the contents of this manual are unclear or erroneous, or if you feel that some information has not been included.

|                                                           |     |
|-----------------------------------------------------------|-----|
| 1. Safety Precaution (Always Read)                        | P2  |
| 2. Specification List • Parts Names                       | P6  |
| 3. Empty Operation Prevention<br>/ Storing the Hand Piece | P7  |
| 4. Operation                                              | P8  |
| 5. Replacing the lower metal chip (Option)                | P9  |
| 6. Before Requesting Service                              | P10 |
| 7. Maintenance                                            | P11 |
| 8. After-Sales Service                                    | P12 |

# 1. Safety Precaution (Always Read)

The "Safety Precautions" explains extremely important precautions that must be taken to prevent injury to the person using the equipment as well as to others and to prevent damage to property.

The following is an explanation of the symbols used...

 **Danger** : This indicates items that if ignored could lead to serious injury or death.

 **Warning** : This indicates items that if ignored could lead to slight injury or damage to property.

Examples of the Indicators

 : This symbol means "Do Not".

 : This symbol means "Do Not Allow".

 : Never Disassemble

 : Keep Away From Water

 : Unplug the Power Supply

 : General Information

## Warning



Never allow water to come in direct contact with the unit. In addition, never install the unit in a location where it will be exposed to water.  
\* Contact with water may damage the equipment or cause electrical shock.



Never modify or disassemble the unit.  
\* Never disassemble, repair or modify the unit in any way. Failure to follow these precautions may cause fire, electrical shock or injury.



Never allow unattended children to use the unit. Always place the unit in a location that is out of reach of children.  
\* Failure to follow these precautions may result in electrical shock or injury.



Never place pins, needles or other such foreign objects into opening on the unit.  
\* Failure to follow these precautions could result in electrical shock or injury.



Never use the unit in the following environment.  
\* Never use the unit in an area with a high ambient temperature, such as an area exposed to direct sunlight.  
\* Never use the unit in an area where it will be exposed to dust, debris or corrosive gases.  
\* Never use the unit where it will be exposed to shock or impact.  
\* Failure to follow these precautions may cause the unit to fail as well as invite serious accidents, such as electrical shock.



Never touch the plug or any controller parts with wet hands. Never spill water on the unit.  
\* Failure to following these precautions may result in electrical shock. Stop using the unit immediately if it should come in contact with water.



DO NOT ALLOW the Tips of the Hand piece (Horn) to touch to together when the unit is plugged into the power source.  
\* Plastic MUST ALWAYS be between the Tips of the Hand piece (Horn)when the unit is plugged into the power source & the Hand piece is depressed.

### ⚠ Caution

|                                                                                    |                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Never expose the hand piece or main unit to strong impact, such as dropping it.<br>* Failure to follow these precautions may cause the unit to fail.                                                                                                                            |
|    | Never pull, twist, bundle or use excessive force to bend the cord. Never place heavy objects on top of the cord.<br>* Failure to follow these precautions may damage the cord, which could result in electrical shock or fire.<br>* Please do not pull the power cord strongly. |
|    | Never pull out the plug by pulling on the cord.<br>* Failure to follow these precautions could cause electrical shocks, shorts or fires.                                                                                                                                        |
|    | Immediately turn off the unit if you smell smoke or any other strange odors coming from it while it is not in use.<br>* Failure to follow these precautions may result in damage or injury.                                                                                     |
|    | Always turn off the power switch when mounting, removing or otherwise touching the crimping section of the unit.<br>* Failure to follow these precautions may result in injury.                                                                                                 |
|  | Never use the cord to lift the main unit.<br>* Failure to follow this precautions may result in equipment failure or injure.                                                                                                                                                    |
|  | Never use the unit if the cord or plug is damaged.<br>* failure to follow this precaution could result in electrical shock, shorting or fire.                                                                                                                                   |
|  | Never unplug the cord while the unit is in operation.<br>* The unit will not operate if the cord is not plugged in or insufficiently plugged in.<br>Failure to follow this precaution could result in malfunctioning.                                                           |

### ⚠ Caution

|                                                                                     |                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Never touch the horn while it is oscillating or immediately after use.<br>* Failure to follow this precaution could result in burns or other injuries.                                                                                                                                                                                |
|  | Never use the unit to crimp items other than those for which the unit was intended.<br>* Failure to follow this precaution may cause damage to the items being crimped as well as the unit.                                                                                                                                           |
|  | Never squeeze the hand piece with excessive force.<br>* Failure to follow this precaution will result in improper crimping or accidents.<br>* This unit uses friction heat from the ultrasonic oscillator for crimping.<br>Since there is no heat crimping being used, crimping can be performed while gently holding the hand piece. |

### Please Follow These Guidelines

|                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Never operate the hand piece while it is empty.<br>● Failure to follow this precaution will result in rapid wear of the lower metal chip and horn.                                                                                                                                                                         |
| Never use benzene, paint thinner or other such solvents when cleaning the unit. In addition, never spray materials such as insecticides, hair styling lotions or cleaning agents on the unit.<br>● Failure to follow these precautions could cause the deformation of plastic parts or the discoloration of painted parts. |
| Please avoid operating the machine in damp areas, there's a possibility to get wet.<br>● Failure to follow these precautions may cause the unit to fail.                                                                                                                                                                   |

## 2. Specification List

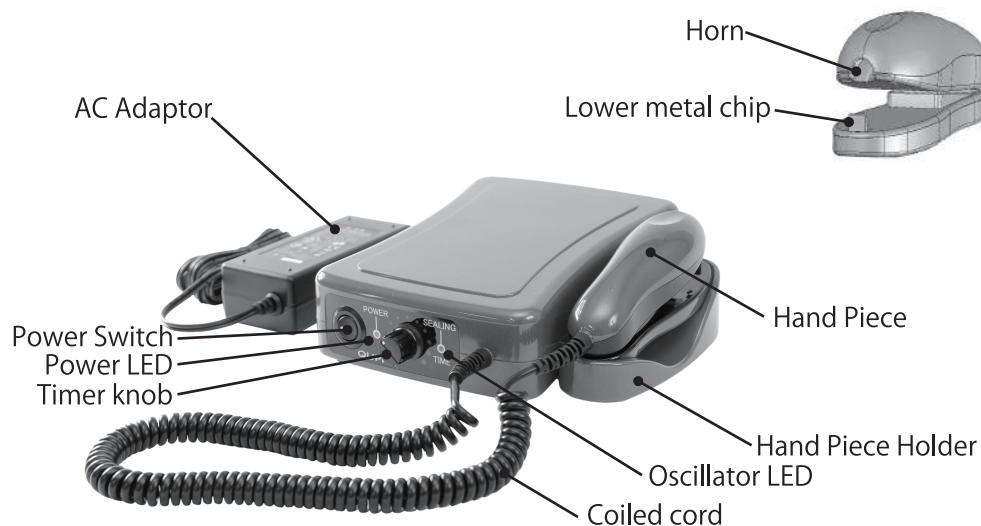
### Main Unit

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Oscillation Frequency     | 57kHz                                                                                                                |
| Maximum Output            | 20W                                                                                                                  |
| Maximum power consumption | 40VA                                                                                                                 |
| Power Source              | 100V~240V AC50 / 60Hz                                                                                                |
| Dimensions<br>(Unit : mm) | Main Unit : W 179 x D 183 x H 66<br>(Not including protruding parts)<br>Hand Piece : W 36 x D 125 x H 54<br>(Opened) |
| Weight                    | Main Unit : Approx. 1kg<br>Hand Piece : Approx. 210g<br>(Including output cord)                                      |
| Output Cord               | 50cm (Spiral cord)                                                                                                   |

### AC Adaptor

|                                |                             |
|--------------------------------|-----------------------------|
| Input                          | 100V~240V AC50 / 60Hz       |
| Output                         | DC15V 3.3A                  |
| External dimension (Unit : mm) | W 62 × D 97 × H 33          |
| Weight                         | Approx. 350g                |
| Cable length                   | AC side 1.8m / DC side 1.5m |

\* Due to our policy on ongoing product improvement, the specifications and external appearance are subject to change without notice.



## 3. Empty Operation Prevention

Quppa has a device that prevents it from being operated when empty. This device stops the operation of the unit when the oscillator and the lower metal chip come in direct contact with each other (i.e. prevents the unit from being operated with nothing to crimp). Preventing the empty operation of the unit helps extend the service life of the lower metal chip.

### Storing the Hand Piece

Always store the hand piece after using.  
( Don't leave the hand piece on the main unit.)

A magnet is in the bottom of hand piece.

A steel plate is in top of main unit.

It is possible to fix the hand piece on main unit.

- ! Grip the middle part of hand piece when you take out from hand piece holder.
- ! Turn off the power switch before store the hand piece.

## 4. Operation

1. Put a power supply cord on a socket.

! Confirm the LED light on adapter is turned on.

2. Turn a body power switch on.

! Confirm the LED light beside the main switch is turned on.

3. Set the timer knob of the oscillator to the center.

! Adjust an operation time with the timer knob.

4. Pick up the hand piece. Place the package into opening of the hand piece between the horn and lower metal chip.

! The melting unit can be a slight angle.

5. Always test your plastic package to determine the lowest timer setting that will properly seal the plastic. ★ If you hear the screech ★ of the Quppa the timer setting is too high & you will shorten the life of the unit. If you hear the screech you must ★ immediately lower the timer setting ★ so that when the hand piece (Horn) is depressed you do not hear the screech. Hearing the screech means the units is not being used properly. It is recommended that after the timer times out for the seal on the package that the operator continue to depress the hand piece (Horn) for 1-2 additional seconds to set the seal. {During the additional time the hand piece (Horn) is depressed there is no additional Ultra Sonic waves being applied to the plastic.} This additional time of depressing the hand piece (Horn) allows the seal to cool to give the package a strong bond.

## 5. Replacing the lower metal chip (Option)

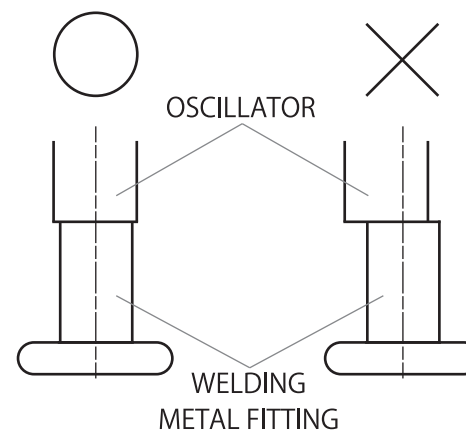
1. Confirm if the power supply is off.

2. Take off a screw of a hand piece back with a plus driver, and pull a welding parts out.

3. Put a new welding parts and a hand piece together, and tighten a screw with a plus driver.

! Put a welding parts in a straight line.  
Grip a hand piece and confirm if an oscillator and a welding parts are engaged exactly.

! Confirm the screw tightened. (Tighten with a wrench 0.4•m). If it is loose, it has a fear not to weld normally.





## 6. Before Requesting Service

Before this machine condition is bad and asked to repair, make sure of the followings.

| Symptom                                                                 | Check Point                                                                                                                                                                                                                   | Solution                                                                                                                                                               |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power will not on come on.<br>(The power supply lamp does not come on.) | <ul style="list-style-type: none"> <li>●Is the power plug connected?</li> <li>●Is the adapter properly connected?</li> <li>●Have you turned the switch on?</li> </ul>                                                         | <p>Connect the power plug and an adapter properly.</p> <p>Turn the power switch on.</p>                                                                                |
| There is no oscillation when the hand piece is squeezed.                | <ul style="list-style-type: none"> <li>●Are you trying to operate the unit empty?</li> <li>●Is the Output cord cut?</li> <li>●Is the crimping timer time too short?</li> </ul>                                                | <p>Insert something to aperture and squeeze the hand piece.</p> <p>Change the hand piece unit.</p> <p>Adjust the crimping timer to provide a longer crimping time.</p> |
| The unit does not crimp.                                                | <ul style="list-style-type: none"> <li>●Are you releasing the hand piece before the crimping timer has completed the operating time.</li> <li>●Is the lower metal chip damaged?</li> <li>●Is the Horn oscillating?</li> </ul> | <p>Continue to squeeze the hand piece unit the oscillating LED light goes out.</p> <p>Replace the lower metal chip.</p> <p>Ask repair to your agent.</p>               |
| The hand piece gets hot.                                                | <ul style="list-style-type: none"> <li>●Are you operating the unit continuously with the timer set to the maximum time?</li> <li>●Is the time control unit not acting?</li> </ul>                                             | <p>Turn off the power and allow the hand piece to being cool.</p> <p>Stop using promptly.</p> <p>Ask repair to your agent.</p>                                         |

## 7. Maintenance

Clean the tip if a horn and the welding fittings often.

- ❗ Before cleaning, make sure that the power source is turned off.
- ❗ If there are something on the tip of the hand piece, oscillation becomes worse, or causes a welding badly.

### How to Clean

- ※Please ensure the horn and lower metal chip parts are wiped by dry cloth after use.
- ※Use towels, cotton tips or brushes with ethanol to clean stains that are difficult to remove.
- ※Please make sure the horn is cleaned after use.  
Some material (e.g. PVC) might accelerate rusting.
- ❗ Never wash the body and the hand piece as they are.

## 8. After-Sales Service

### ◆Limitation of Warranty

#### ■Within warranty period,

we do not cover if any of the following failures occurs

\*Failures which result from misuse and/or not following the instructions.

\*Replacements or changes in machine parts that are not made by our company.

\*Damages caused by natural disasters.

#### ■Human negligence, Improper use.

\*Rust of Hom.

\*Broken power cord.

\*Machine, handle soaked in water.

\*Damage of the adapter.

■Date of purchase and/ or stamp from the suppliers cannot be recognized, either there's correction of contents or untrue fact on the Warranty.

■Warranty cannot be re-issued, please retain.

### ◆When you request to repair

Please review the section "Before Requesting Service". If this does not correct the problem, follow the guidelines below.

#### •During warranty period

Request a repair to the agent, which you bought from, with the warranty.

\*If the above instructions are not followed the unit will stop working because the hand piece has burned out. The miss use of Quppa will VOID the warranty.★

#### •After warranty period

Please request to repair to your seller.

# Warranty

Thank you for purchasing our product.

Please read the instruction manual completely and carefully and follow the instructions. If the product is not working properly, please take it to the supplier or our company.

|                                                   |                           |
|---------------------------------------------------|---------------------------|
| Product                                           | Serial number             |
| Date Of Purchass (yy-mm-dd)                       | Warranty Period<br>1 year |
| <b>Customer</b><br>Address<br><br>Name<br><br>Tel |                           |
| <b>Agency</b><br><br>Address<br>Tel               |                           |

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