GQ Electronics™

GQ-5200 SMD REWORK SOLDERING STATION

User's Manual

GQ Electronics LLC
USA

INTRODUCTION

GQ 5200 SMD Rework Station is a 2-in-1 SMD soldering System. It has wide range of temperature and airflow adjustment. The system build with a advanced industry standard diaphragm air pump. Two real time digital temperature monitors for actual temperature on hot air and iron. Independent Celsius and Fahrenheit mode control. User is able set Celsius or Fahrenheit temperature on hot air and soldering iron individually. Microcontroller controlled proactive system displays indutrial standard error code and warning code. This reworks station is best suited for repairing QFP, SOP, PLCC and SOJ components.

INSTALLATION

1. Remove the unit bottom silver color fixture screws before connect to the power.
2. Install the air handle stand on either left or right side of the main unit.
3. Connect the iron connector to main unit iron connector.
4. Do not place the unit in high humid, dusty, direct sunlight.
5. Be certain the electrical outlet is properly earth grounded.
6. Use the unit indoor only.

PART LIST

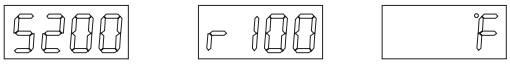
1). Main unit enclusure 2). Air volume adjustment knobe 3). Air flow indicator 4). Air temperature control knobe 5). Air heat-up indicator 6) . Air temperature display 7). Iron temperature adjustment 8). Iron heat-up indicator 9). Iron connector on main unit 10). Iron on/off switch 11). Hot air on/off switch 12). Hot air gun handle 13). Hot air gun holder 14) Hot air gun metal tube. 15). Iron handle model 16). Iron handle holder 17). Water expendable iron tip clearning sponge

HOW TO SET SYSTEM TEMPERTURE UNIT (C / F)

A. Hot Air

1. Turn the power off and disconnect the AC power.
2. For Celsius display(C), turn the temperature control knob clockwise to the right side . For Fahrenheit display(F), turn the temperature control knob counter-clockwise to the left side .
3. Connect the AC power cord. The air temperature display panel should display the machine model--Revision--Temperature unit been selected. Example, for the GQ 5200 model, the model revision number is R100, set to Fahrenheit mode, the power up display message will be:

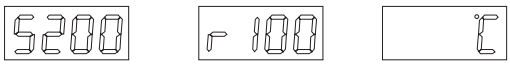
5200 --- R100 --- F



B. Soldering Iron

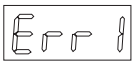
1. Turn the iron switch OFF.
2. For Celsius display(C), turn the iron temperature control knob clockwise to the right side . For Fahrenheit display(F), turn the iron temperature control knob counter-clockwise to the left side .
3. Turn the iron switch ON. The air temperature display pannel should display the machine model--Revision--Temperature unit been selected. Example, for the GQ 5200 model, the model revision number is R100, set to Celsius mode, the power up display message will be:

5200 --- R100 --- C

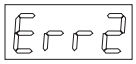


SYSTEM ERROR CODE

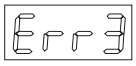
The system error code applys on both hot air and soldering iron systems.



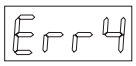
Error 1: Sensor or heat element not functioning



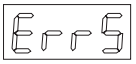
Error 2: Heating function error



Error 3: Temperature out of control

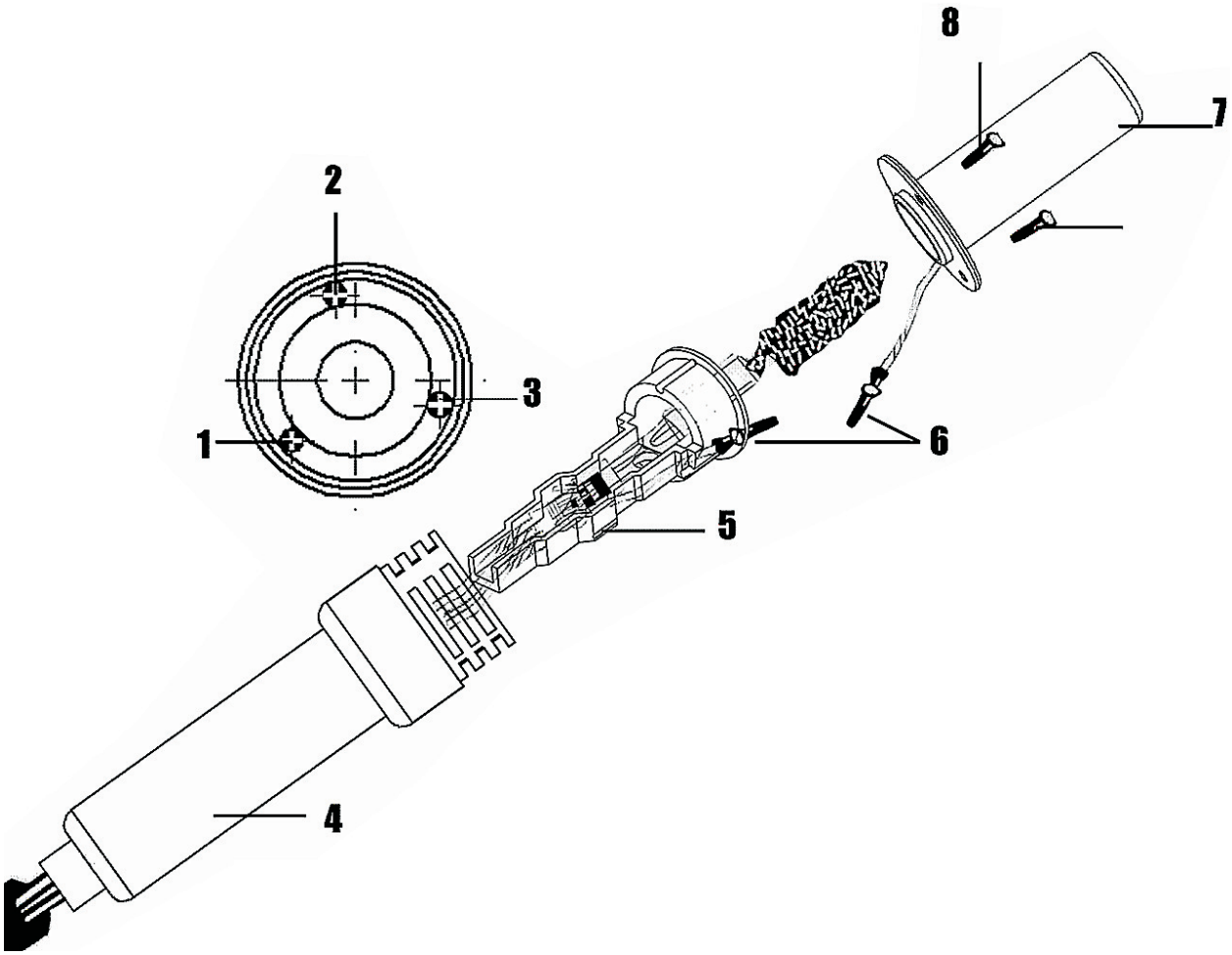


Error 4: Air flow volume too low



Error 5: Control knob problem

Error 6: Soldering Iron not connected or heat element problem.



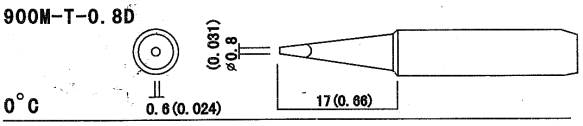
Hot air handle disassembly

1. 2. 3. Three screws from top view of handle.
4. Plastic handle
5. Element holder assembly.
6. Earth ground connector from hot air metal tube.
7. Hot air element metal tube cover.
8. Screws to hold the metal tube.

Hot air nozzel list:

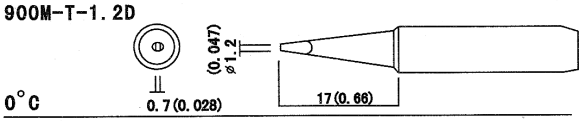
Compatible Iron Tip List:

900M-T-0.8D



0°C

900M-T-1.2D



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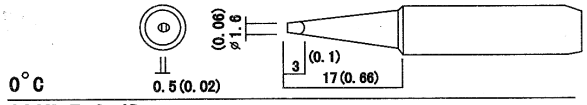
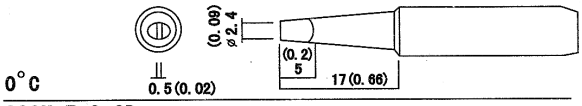
900M-T-1.6D



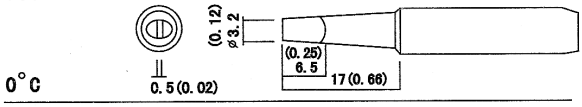
0°C

900M-T-2.4D



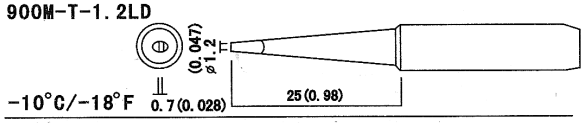
0°C

900M-T-3.2D



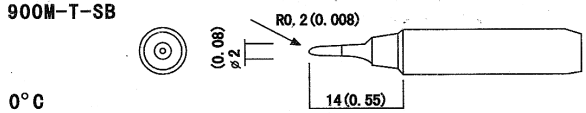
0°C

900M-T-1.2LD



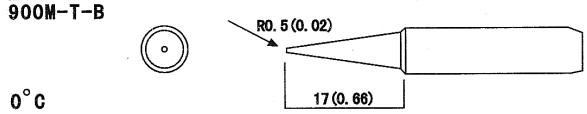
-10°C/-18°F

900M-T-SB



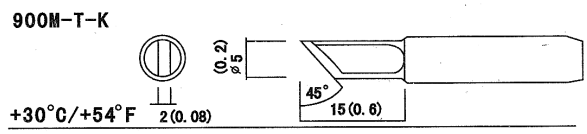
0°C

900M-T-B



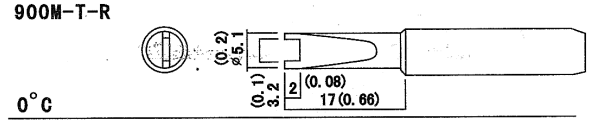
0°C

900M-T-K



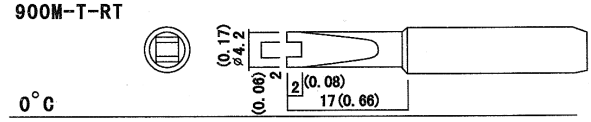
+30°C/+54°F

900M-T-R



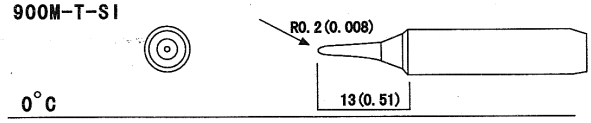
0°C

900M-T-RT



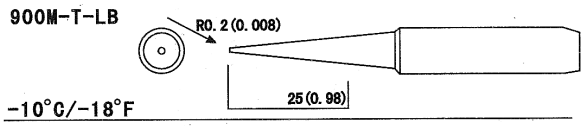
0°C

900M-T-SI



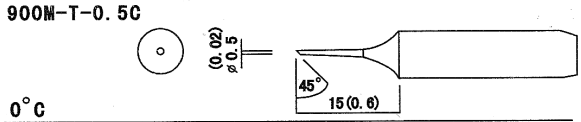
0°C

900M-T-LB



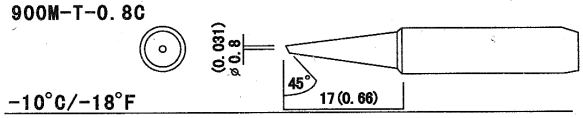
-10°C/-18°F

900M-T-0.5C



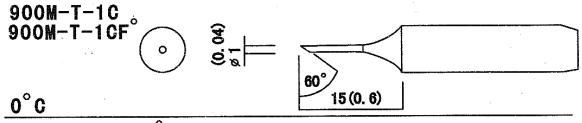
0°C

900M-T-0.8C



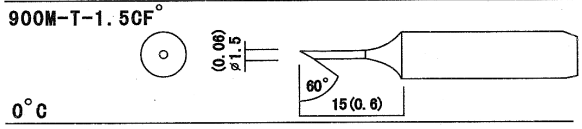
-10°C/-18°F

900M-T-1C
900M-T-1CF°



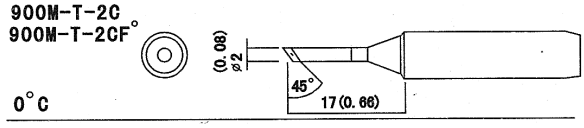
0°C

900M-T-1.5CF°



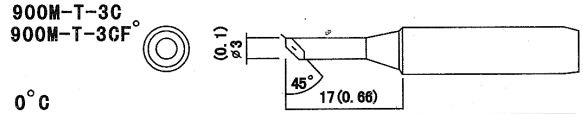
0°C

900M-T-2C
900M-T-2CF°



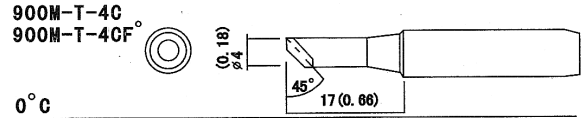
0°C

900M-T-3C
900M-T-3CF°



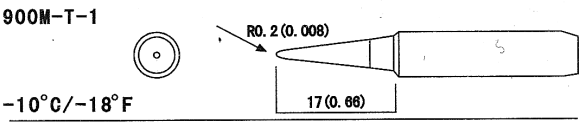
0°C

900M-T-4C
900M-T-4CF°



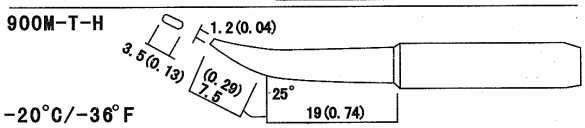
0°C

900M-T-1



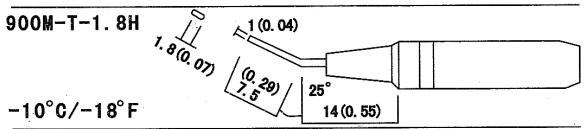
-10°C/-18°F

900M-T-H



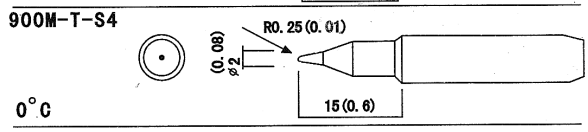
-20°C/-36°F

900M-T-1.8H



-10°C/-18°F

900M-T-S4



0°C

CAUTION

1.Use only correct value fuse and heat element as a replacement.
2.Do not replace the fuse before identifying and correcting problems.
3.Do not open the unit while AC power is connected.
4.Do not turn the unit on if any materials has fallen in the unit. Such as screws, components,water.
5.Disconnect the power line immediatly if the unit is running abnormally Such as high temperature, smoke etc.

SPECIFICATION:

1. Operating condition:
   (1) Input power: AC 110, 50/60 Hz
   (2) Working Temperature: -10C to +40C
   (3) Working Humidity: <90%
   (4) Storage Temperature: -20C to +40C
   (5) Storage Humidity: <80%

2. Working Specification:
   (1) Power Consumption: 270W
   (2) Temperature Range: 200-480 degrees Celsius (390 - 900degree Fahrenheit)
   (3) Heating Element:Metal Heating Core
   (4) Pump/Motor Type: Diaphragm Pump
   (5) Air Capacity: 0.3~24 L /min (max)
   (6) Iron Heating Element: Ceramic 24V 60W
   (7) Station Dimensions(WxHxD): 7.5" x 5.4" x 9.6", 187mm x 135mm x 245 mm
   (7) Weight: 11 lb (4.7kg)