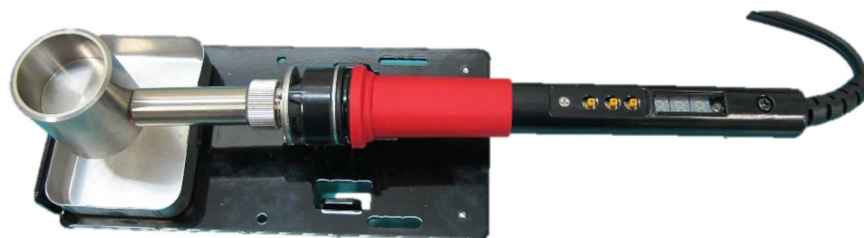


DMSD Digital Mini solder Pot User's Guide

Thank you for purchasing DMSD series soldering irons. Please read this guide before use, and keep it after read.



CAUTION

- Do NOT touch the soldering irons with wet hands to prevent electrical accidents such as an electrical shock .
- Do NOT touch the iron tip and the heater anytime when the power is on. Keep them away from flammable materials.
- Keep the soldering iron unplugged after the operation.
- Do NOT take a part or modify the soldering iron except for replacement or maintenance. Otherwise, it may cause a fire, a failure or an electric shock.
- When the replacement of the parts is needed, unplug the soldering iron and make sure it cooled down.
- For the replacement of the parts, use the genuine parts only. Otherwise, it may cause a failure or an accident.
- Do NOT use the soldering iron for anything other than the regular soldering operation.

SPECIFICATIONS

◆ 2 PIN PLUG (TYPE A or C)

※ Weight and Length exclude a power cord.

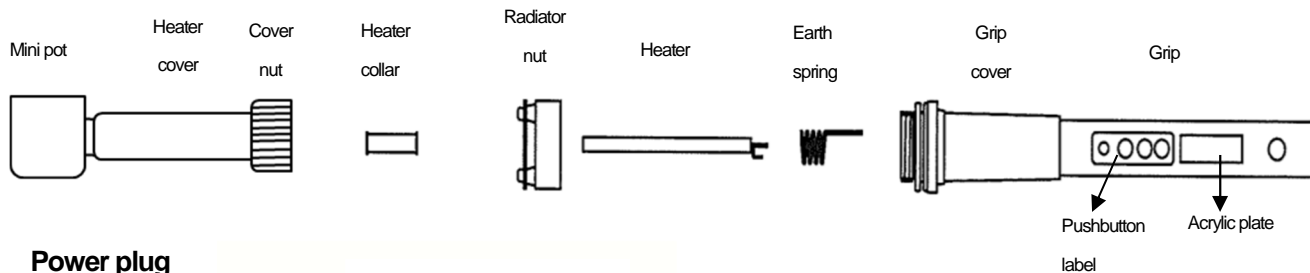
Model No.	Power consumption	Input voltage	Insulation resistance	Standard mini pot	Weight	Dimensions W*L*H	Control Method	Temp. range	I.D. Mini pot
DMSD-140-10	40W	100VAC	$20M\Omega \leq$	SG10-DP10	465g	80 * 285 * 60	0 volt Switch P- control	50~500°C	$\phi 10 \times 10D$
DMSD-165-15	65W			SGP10-DP15	490g	80 * 285 * 60			$\phi 15 \times 10D$
DMSD-1100-30	100W			SG12-DP30	620g	80 * 285 * 67			$\phi 80 \times 18D$
DMSD-240-10	40W	220VAC		SG10-DP10	465g	80 * 285 * 60			$\phi 10 \times 10D$
DMSD-2100-30	100W			SG12-DP30	620g	80 * 285 * 67			$\phi 80 \times 18D$

◆ 3 PIN PLUG (TYPE B or I)

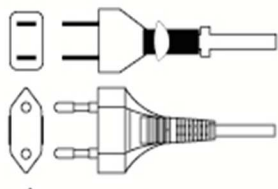
※ Weight and Length exclude a power cord.

Model No.	Power consumption	Input voltage	Leak voltage	Earth line resistance	Standard mini pot	Weight	Dimensions W*L*H	Control Method	Temp. range	I.D. Mini pot
DMSD-140-10	40W	100VAC	$\leq 2.0mV$ (default)	$\leq 2.0\Omega$ (default)	SG10-DP10	465g	80 * 285 * 60	0 volt Switch P- control	50~500°C	$\phi 10 \times 10D$
DMSD-165-15	65W				SGP10-DP15	490g	80 * 285 * 60			$\phi 15 \times 10D$
DMSD-1100-30	100W				SG12-DP30	620g	80 * 285 * 67			$\phi 80 \times 18D$
DMSD-240-10	40W	220VAC			SG10-DP10	465g	80 * 285 * 60			$\phi 10 \times 10D$
DMSD-2100-30	100W				SG12-DP30	620g	80 * 285 * 67			$\phi 80 \times 18D$

STRUCTURE

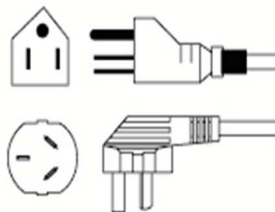


Power plug



Type A 100V

Type C 220V



Type B 100V

Type I 220V

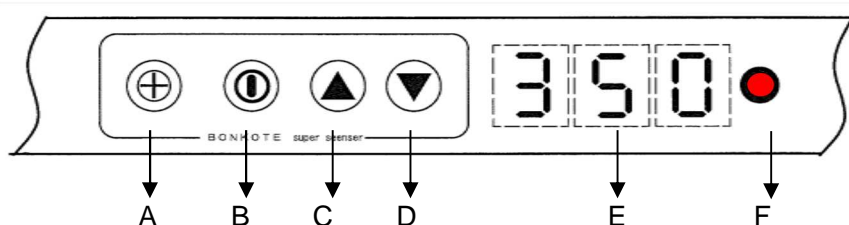
REPLACEMENT PARTS

Model No.	Power consumption	Input voltage	Heater element	Solder pot Mini pot/heater- cover/cover nut	Heater collar	Radiator nut	Earth spring	
DMSD-140-10 2 pin plug	40W	100VAC	CES-100-40E	SG10-DP10	SUC-10	NA-11D	-	
DMSD-165-15 2 pin plug	65W		CES-100-65E	SGP10-DP15	SUCP-10	NA-20D		
DMSD-1100-30 2 pin plug	100W		CES-100-100E	SG12-DP30	SUC-12	NA-30D		
DMSD-240-10 2 pin plug	40W	220VAC	CES-220-40E	SG10-DP10	SUC-10	NA-11D		
DMSD-2100-30 2 pin plug	100W		CES-220-100E	SG12-DP30	SUC-12	NA-30D		
DMSD-140-10 3 pin plug	40W	100VAC	CES-100-40E	SG10-DP10	SUC-10	NA-11D		ECS-5
DMSD-165-15 3 pin plug	65W		CES-100-65E	SGP10-DP15	SUCP-10	NA-20D		
DMSD-1100-30 3 pin plug	100W		CES-100-100E	SG12-DP30	SUC-12	NA-30D		
DMSD-240-10 3 pin plug	40W		220VAC	CES-220-40E	SG10-DP10	SUC-10	NA-11D	
DMSD-2100-30 3 pin plug	100W			CES-220-100E	SG12-DP30	SUC-12	NA-30D	

※ Common parts

- Grip cover GC-R
- Grip GK-DS
- Pushbutton label ... DMSDTR
- Acrylic plate DS-AK

CONTROL PANEL




- A Temperature control dial
- B Power button
- C Temperature UP button
- D Temperature DOWN button
- E Digital display
- F LED lamp



- Flashing: rapid rise in temperature
- ON: rise in temperature / suitable working temperature after saturation time
- OFF: drop in temperature / stand-by / power off

HOW TO USE

1. Confirm the voltage of the soldering iron and the power source is the same. Insert the power plug into the outlet.
「---」 is indicated on the display and the power is being delivered to the iron. The soldering iron becomes Stand-by mode.

2. Press and hold  button more than 3 seconds.

Default temperature  is indicated on the display, and the power has been delivered to the heater in the iron.

Once  is indicated on the display, release  button.



3. When LED lamp change to  from , you can start working.

When you start working, observe the solder in a pot has melted completely, the temperature rises higher and becomes stable

We recommend that you start working after confirming the temperature is in stable. You could refer to the time in below chart.

Set temperature	300°C			350°C		
	A	B	C	A	B	C
	Solder has melted	Solder temp. become stable ※	Solder temp. arrive at set temp.	Solder has melted	Solder temp. become stable ※	Solder temp. arrive at set temp.
DMSD-140 (240) -10	5 min	8 min	12 min	3 min	5 min 30s	9 min 30s
DMSD-165-15	8 min	11 min	20 min	4 min	9 min 30s	15 min
DMSD-1100 (2100) -30	15 min	20 min	35 min	8 min	14 min	25 min

※ Solder temperature reaches 90% of the set temperature.

4. After work, press and hold  button more than 3 seconds until 「---」 is indicated on the display, and then the LED lamp changes to . Check the display and release the button.

The latest set temperature should be applied whenever restarting the iron.

HOW TO CHANGE SET TEMP.


You can change the preset temperature by a long push or a short push of  or  buttons.

The short push changes the temperature by a single degree, and the long push changes it by 10 degrees at a time.

In case of the continuous soldering work for wires with large temperature capacity, the higher preset temperature is required.

TEMP. CONTROL DIAL

Using  dial, you can allow to correct the temperature discrepancy between the set temperature and the melted solder in a pot.

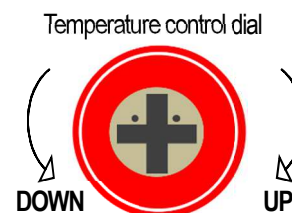
Be sure not to over-twist  dial.

※ The rotation angle from the initial position is 120 degrees maximum to left and right

※ Use a precision Philips screwdriver

※ Clockwise: Rise the tip temperature

※ Counterclockwise: Drop the tip temperature



MEASURING THE MELTED SOLDER

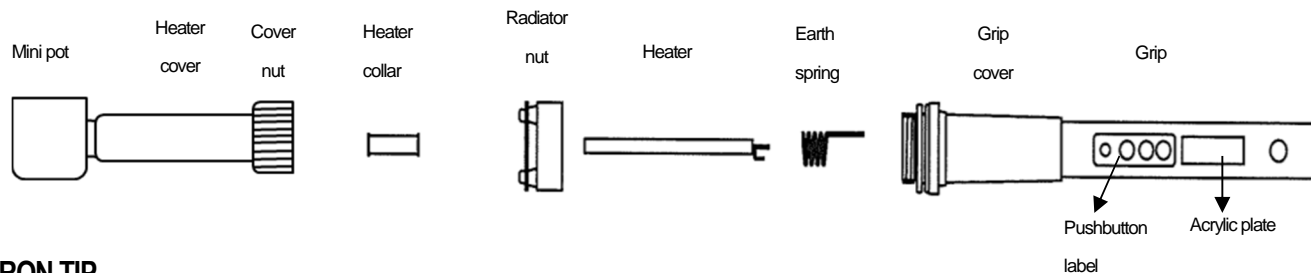
. When measuring the melted solder temperature by using a thermometer, do it after the time at the column C in the above chart, so that you can obtain more precise value.

LOCK FUNCTION

Press and hold   buttons simultaneously more than 3 seconds to lock or unlock the set temperature.

HOW TO REPLACE IRON TIP AND HEATER

※ Before the replacement, unplug from the outlet and wait until the solder pot cools down.



IRON TIP

1. Loosen the cover nut to remove the solder pot.
2. Replace the solder pot and tighten the cover nut.

HEATER

1. Disassemble cover nut of solder pot and radiator nut.
2. Pull out the heater (both of heater terminals and temperature sensor terminals together) from the connector.

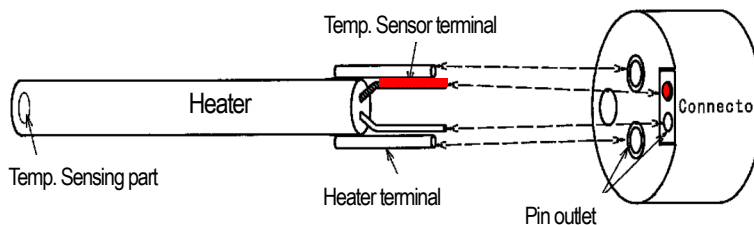
※ **Make sure the connector must NOT come out from the grip when pulling heater out.**

3. Replace the heater as follows:

Insert the temperature sensor terminals and the heater terminals into the pin outlets as shown right.

※ **Be sure to align the red colored sensor terminals with the red marked pin outlets.**

4. Assemble the parts in reverse order.



TROUBLE SHOOTING

Symptom	Check	Probable cause	Measure
No electricity	「---」* is NOT shown on the display.	Power cord disconnection or defect of circuit board.	Repairing
Soldering iron does NOT heat	「Er1」* is shown on the display.	Temperature sensor is OPEN.	Replacing a heater
	「Er3」* is shown on the display.	Heater is OPEN.	
Temperature does NOT reach the set temperature.	Implement of temperature compensation.	Temperature compensation has not implemented.	Implement temperature compensation
After replacement of a heater, the soldering iron does NOT heat	「Er2」* is shown on the display.	Opposite polarity of temperature sensor terminal.	Correct the polarity.
Set temperature cannot be adjusted.	「350」* is shown on the display.	Set temperature must be locked.	Release the lock function.

* 「---」 Power is delivering.

* 「Er1」「Er2」「Er3」 Error

* 「350」 Set temperature

GUARANTEE

Our products are shipped after severe factory test and inspection.

However, if you find malfunctions or defects due to problems in workmanship or transportation, please contact your dealer or us.

The guarantee period of your products is in one year after your purchase, except for replacement parts.

AFTER SALES SERVICE

When your system does not operate properly, read this manual again to check.

If still troubles are not solved, please contact your dealer or us.

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ISO9001 ISO14001