

EDSYN^{INC}®

971DX-230

LONER[®] high performance Deluxe SOLDERING STATION

COMPLIES WITH DOD-STD-2000-1B
MIL-STD-2000A and ESD SPEC.
DOD-STD 1868, DOD HDBK-263

CE EMC Directive 89/336/
EEC

24V

hand tool



230V

input

MADE IN THE
U.S.A.

instruction manual

EDSYN INC.®

971DX-230/B/P/I

LONER® high performance

Temperature Controlled SOLDERING STATION



ESD SAFE



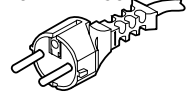
made
in
USA



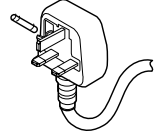
EMC Directive 89/336/
EEC

For 971DX-230P
POWER CORD WIRING
BROWN to LINE
BLUE to NEUTRAL
GRN/YEL to GROUND

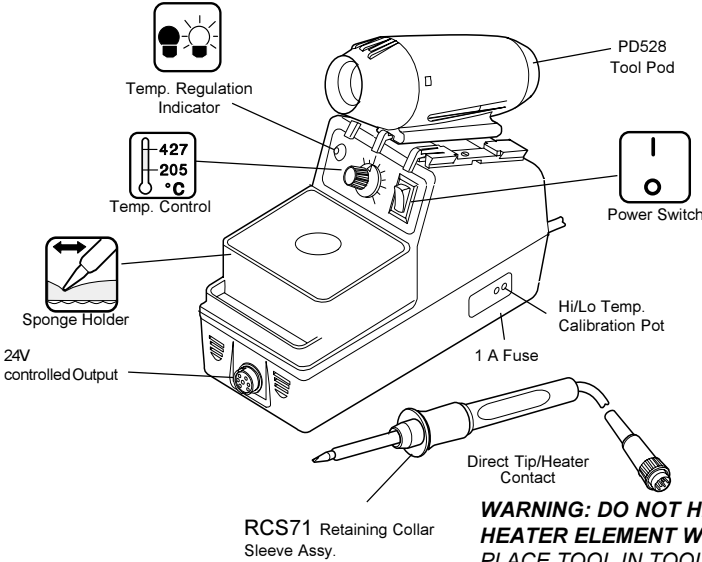
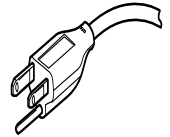
For 971DX-230



For 971DX-230B
3A Fuse inside



For 971DX-230I



**WARNING: DO NOT HIT OR TAP THE TOOL.
HEATER ELEMENT WILL BREAK!!!
PLACE TOOL IN TOOL POD WHEN NOT IN USE.**

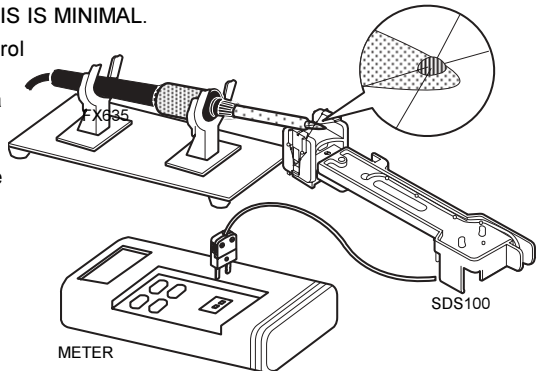
TIP CARE

1. Set desired temperature. Blinking Lamp means Tool is regulating.
2. TIN the Tip. (apply solder)
3. Do not rub, bend or reshape the Tip.
4. Always clean the Tip by wiping it against the saturated sponge and always RE-TIN.

TEMPERATURE CALIBRATION

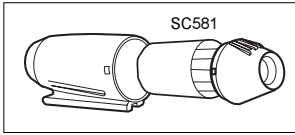
AIR MOVEMENT WILL AFFECT THE TEMPERATURE READING. WORK IN AN AREA WHERE THIS IS MINIMAL.

1. Turn on power and set Temperature Control Knob to 205°C.
2. Using a clean and well tinned Tip, apply a small amount of solder on the Tip, just enough to form a bead on top of the Tip.
3. Place the center of the thermocouple wire of the SDS100 on top of the bead.
4. Again, apply a small amount of solder on the center of the thermo-couple wire, just enough to embed the center.
5. Adjust LO-Temp. Calibration Pot so the Meter will read 205°C.
6. Set Temperature Control Knob to 427°C.
7. Adjust Hi-Temp. Calibration Pot so the Meter will read 427°C.

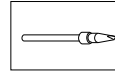


MS412
Temperature
Calibration System

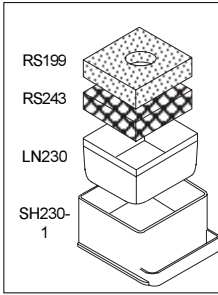
ITEMS INCLUDED



1. PD528



3. LT375

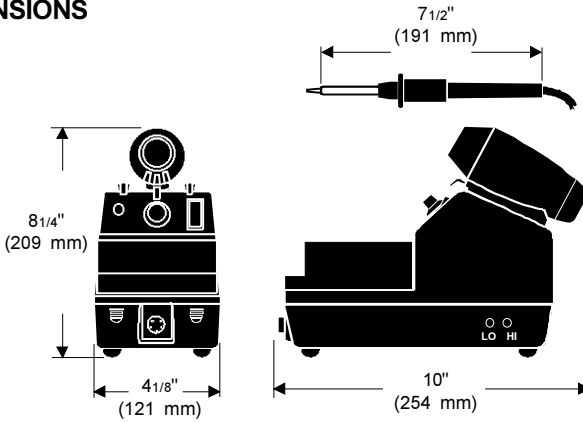


2. SH230



4. WP556

BASIC DIMENSIONS



SPECIFICATIONS

- 230V input, 24V output, 50/60Hz, 70W
- 4 lbs. (1.8 kg.)
- TEMP. RANGE: 400°F - 800°F (205°C - 427°C)
- TEMP. REGULATION: $\pm 6^\circ\text{F}$ ($\pm 3^\circ\text{C}$)
- TIP TO GROUND LEAKAGE: < 2MV
- TIP TO GROUND RESISTANCE: < 2 OHMS
- COMPLIES WITH DOD-STD-2000-1B MIL-STD-2000A and ESD SPEC. DOD-STD 1868, DOD HDBK-263
- Tool wt. 3 oz. (85 g)
- Tool cord, 3 ft. (91.4 cm)

ITEM NO.	PART NO.	DESCRIPTION	QTY REQ'D
2c	LN230	Liner for SH230	1
2d	SH230-1	Sponge Holder Tray	1
3	SR358	Control Panel Label	1
4	SR452	Power Switch	1
5	SR045	Knob, Temperature Control	1
6	SR243	Potentiometer Assy. 5K, for Temperature Control	1
7	SR488	Screw, Flat Head, Slotted #6 - 32 x 7/8	3
8	SR016	Flat Washer- #6	4
9	SR017	Hex Nut- #6 - 32	5
10	SR578	Top Cover	1
11	SR019	Dove Tail Mount	1
12	15242W53	Circuit Board, 24V	1
13	SR573	LED Assy.	1
14	SR365	Bottom Base	1
15	SR011	Screw, Pan Head, Phillips #6 - 18 x 5/8	4
17	SR549	Power Cord Assy.	1
18	SR012	Rubber Foot	4
19	SR481	Connector Assy. 6-Pin, 3-Wire	1
20	SR241	Strain Relief for Power Cord	1
21	SR543	Fuse, 1A, 250V, 5 x 20 mm	1
22	SR569	Fuse Holder	1
24	SR255	Spacer for Potentiometer Assy.	1
25	SR311	Label, External Calibration, Left Front or Right Rear	1
26	SR387	Transformer, 24V, 80VA, Dual Primary	1
27	SR435	Connector, Flag, .250 Tab, Fully Insulated	4
28	SR433	Connector, Flag, .187 Tab, Fully Insulated	8
29	SR139	Star Washer, Lock, #6	6
30	SR144	Screw, Rnd. Head, #6-32 x 1/2	4
32	SR035	Dovetail Riser Plate	1
33	SR036	Shelf Plate for Dovetail Riser	2
34	SR400	Ring Tongue, Non Insulated	2
35	SR467	Nut, for Dovetail	3
36	SR372	Label, Ground Symbol	5
40	SR050	Cable Tie	1

Connectors 27

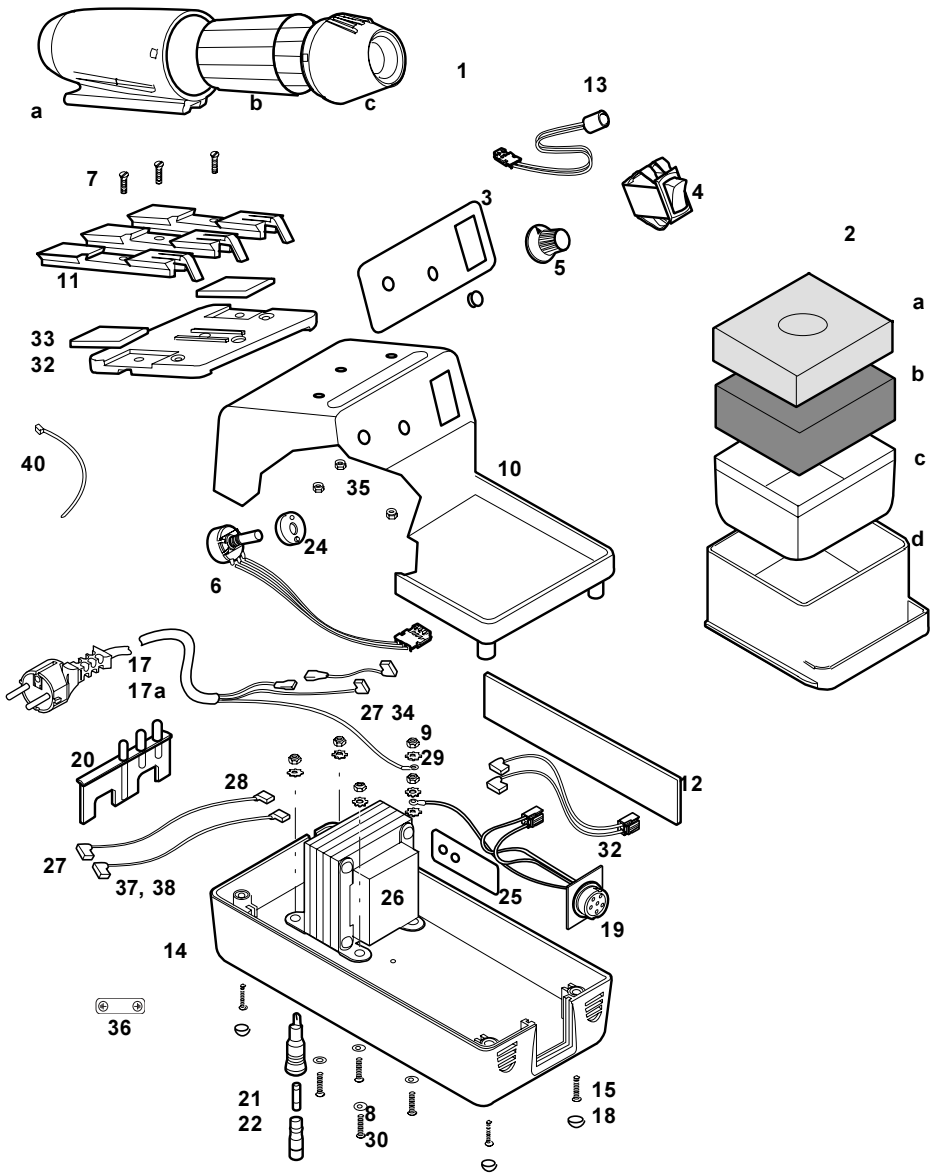


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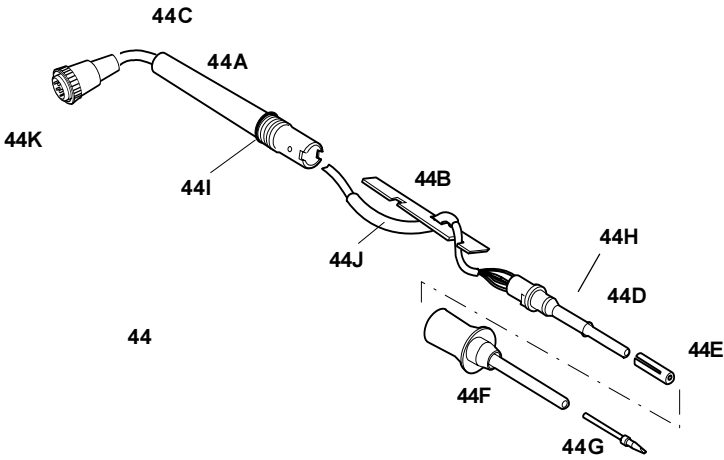
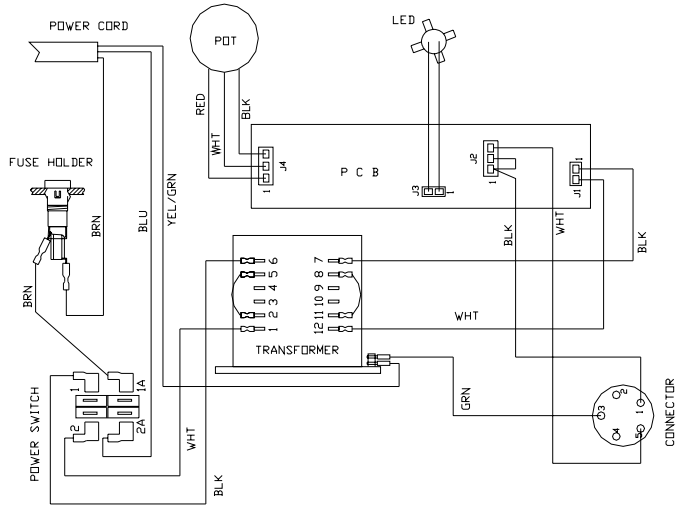
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ITEM NO.	PARTNO.	DESCRIPTION	QTY REQ'D
1	PD528	Tool Pod	1
1a	SR042	Thermal Housing for Tool Pod	1
1b	SC581	Solder Collector for Tool Pod	1
1c	SR043	Front Housing for Tool Pod	1
2	SH230	General Purpose Sponge Holder	1
2a	RS199	Cleaning Sponge	1
2b	RS243	Leveling Pad for SH230	1

971DX-230/P/B/I
POWERSUPPLYWIRING



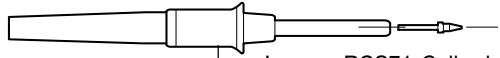
ITEM NO.	PART NO.	DESCRIPTION	QTY REQD
44	LST13-1	Soldering Tool, Complete Assembly	1
44A	SR579	Handle for Tool	1
44B	SR058	Cord Strain Relief	1
44C	SR280	Tool Cord, Burn Proof (Connector Assy. on one end)	1
44D	SR607	Heater Assembly	1
44E	LTC71	Tip Collet	1
44F	RCS71	Retaining Collar and Sleeve	1
44G	LT375	LONER [®] Standard Spade Tip	1
44H	SR001	O-Ring, Silicone, .30 ID	1
44I	SR240	O-Ring, For Handle, .50 ID	1
44J	SR525	Hose, Low Static, 1/4 I.D. (sold per foot)	5 1/4"
44K	SR634	Plug, Male Connector, 6-Pin	1

REPLACING TIPS

CAUTION

1. Tool must be cool when changing tips.
2. Do not twist or wiggle the tip.

AFTER TIP IS INSTALLED, TIGHTEN COLLAR PROPERLY.

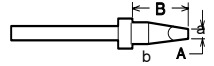


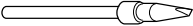
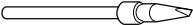
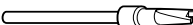
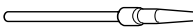
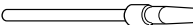
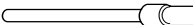
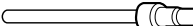
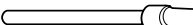
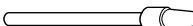

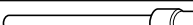
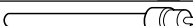
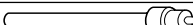
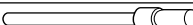
Loosen RCS71 Collar by turning counter-clockwise and pull the Tip straight out.

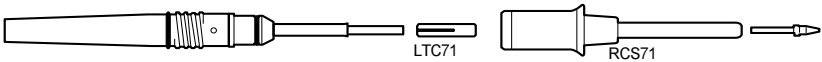
General Purpose Soldering Tips

Iron Plated for long life • Nickel and Chrome Plated for optimum heat transfer.

EDSYN has over a 100 varieties of standard and custom-made Tips. CONTACT EDSYN FOR MORE SELECTIONS.



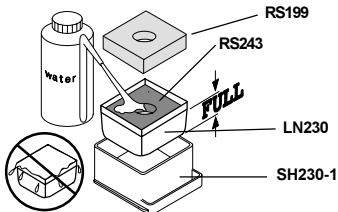
Part No. & Description	a	b
 LT374 Standard Probe	.03 (0.8 mm)	.48 (12.2 mm)
 LT375 Standard Spade	.06 (1.5 mm)	.48 (12.2 mm)
 LT376-7 SMD Channel	.12 (3.0 mm)	.48 (12.2 mm)
 LT392 Extra-Long Needle	.02 (0.5 mm)	1.13 (28.8 mm)
 LT394 Extra-Long Spade	.07 (2.0 mm)	.93 (23.6 mm)
 LT399 Large Face	.17 (4.3 mm)	.49 (12.4 mm)
 LT444 SMD Mid-Length Fine Spade	.04 (1.0 mm)	.78 (19.8 mm)
 LT446 SMD Probe	.03 (0.8 mm)	.48 (12.2 mm)
 LT382 Long Cone	.02 (0.5 mm)	.62 (15.6 mm)
 LT395 Mid-Length Stubby Spade	.09 (2.3 mm)	.74 (18.8 mm)
 LT431 Mid-Length Spade	.07 (1.8 mm)	.74 (18.8 mm)
 LT439 SMD Thin Probe	.03 (0.8 mm)	.50 (12.7 mm)
 LT439-1 Same as LT439, Angled		
 LT445 SMD Angle Face	.03 (0.8 mm)	.48 (12.2 mm)



MAINTENANCE

• Replace RS199 Cleaning Sponge

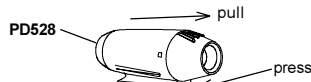
1. Fill water only up to the top of the RS243 Leveling Pad.
2. Depress RS199 to moisten it completely.



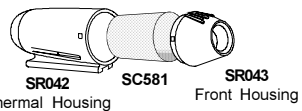
CAUTION:
Over-filling can cause thermal shock to the tip or heating element during tip cleaning.

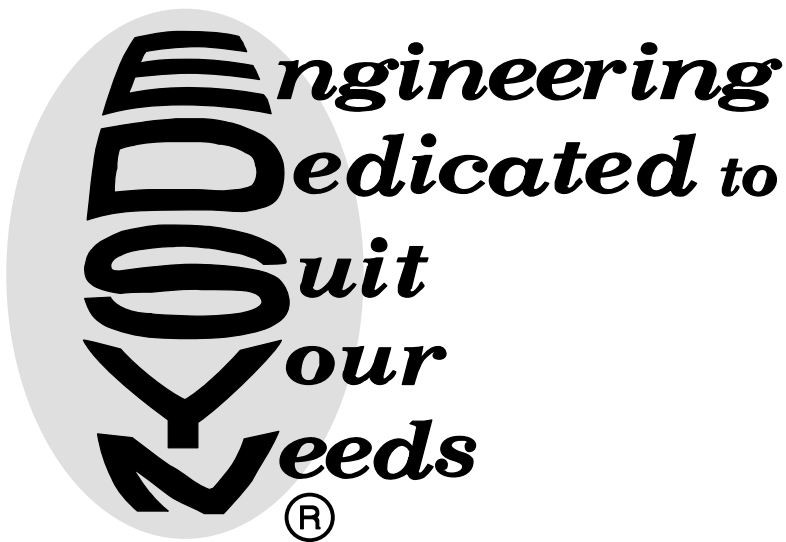
• Replace SC581 Solder Collector

1. Hold the Housing firm and turn Cap counter-clockwise and pull it away from the Housing.
2. Remove used SC581 and replace with a new one.
3. Reassemble Pod with TOP of the Cap in proper position.



To replace Pod, press Release Tab and slide out Pod.





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AUTO-VAC, IDLE-REST, OCTAVAC AND KLATCH
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TIP STYLE ON SOLDERING, DESOLDERING AND HOT AIR TOOLS MAY VARY.

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