

971FX LONER® SOLDERING STATION with fume extraction system

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





instruction manual



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For Factory repair:
Specify the problem and ship the unit to EDSYN INC.
Customer Service
15958 Arminta Street
Van Nuys, CA 91406-1896

FEATURES

- · High vacuum output
- · Automatic vacuum shut-off
- · Modular assembly
- · Easily converted to hot air soldering system
- · Efficient & easy to clean filter system
- · Check valve equipped high pressure hose

OPERATING REQUIREMENTS: •120 V, 60 Hz

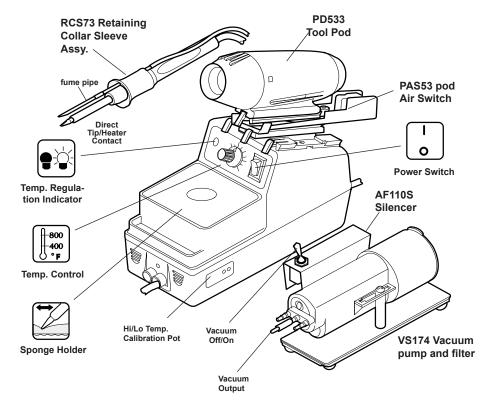


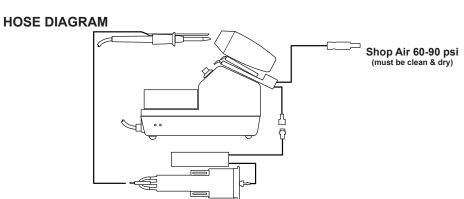


Static Safe

SPECIFICATIONS

- 120V, 60Hz, 15W 220W, 2.5 lbs. (1.1 kg.)
- COMPLIES WITH DOD-STD-2000-1B, MIL-STD-2000A and ESD SPEC. DOD-STD 1868, DOD-HDBK-263
- TEMP. RANGE: 400°F 800°F (205°C 427°C)
- TEMP. REGULATION: ±6°F (±3°C)
- TIP TO GROUND LEAKAGE: < 2MV
- TIP TO GROUND RESISTANCE: < 2 OHMS
- UL LISTED

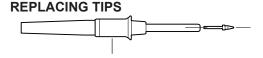




TIP CARE

- 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.

WARNING: DO NOT HIT OR TAP THE TOOL. HEATER ELEMENT WILL BREAK!!!



CAUTION

- •Tool must be cool when changing tips.
- •Do not twist or wiggle the tip.

Loosen RCS73 Collar by turning counter-clockwise and pull the Tip straight out.

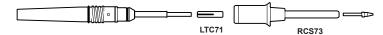
AFTER TIP IS INSTALLED, TIGHTEN COLLAR PROPERLY.

General Purpose Soldering Tips

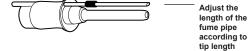


Iron Plated for long life•Nickel and Chrome Plated for optimum heat transfer.
EDSYN has over a 100 varieties of standard and custom-made Tips. CONTACT EDSYN FOR MORE SELECTIONS.

Part No. & Description	а	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 mn)
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)



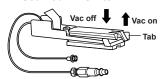
RCS73 Retaining Collar Sleeve



OPTIONS

The 971FX can be converted to a Hot Air soldering system. Ask for PR570 Air Flow Regulator, RCS75 Retaining Collar Sleeve, LTA75H Insert Accumulator and LT428 Hot Air Tip.

PAS53 Pod Air Switch

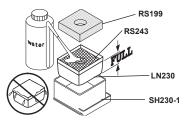


With tool out of the pod, push in Tab to lock: Vacuum on (continuous) With tool in the pod, push in Tab to lock: Vacuum off (disable)

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.

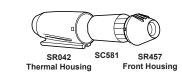


CAUTION:

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

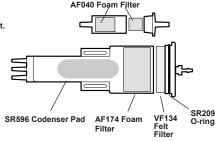
Replace SC581 Solder Collector

- 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.



Replace VS174 Filters

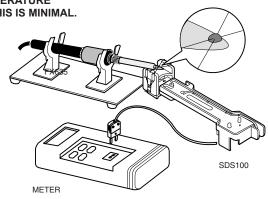
- 1. Pull cap fom housing.
- 2. Replace filters as shown.
- 3. Replace O-ring if worn out.



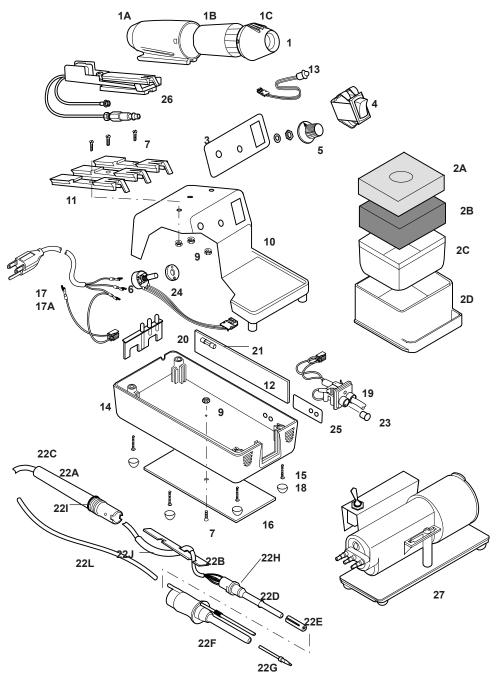
TEMPERATURE CALIBRATION

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 400°F.
- 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.
- 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 400°F.
- 6. Set Temperature Control Knob to 800°F.
- 7. Adjust Hi-Temp. Calibration Pot so the Meter will read 800°F.



MS412 Temperature Calibration System

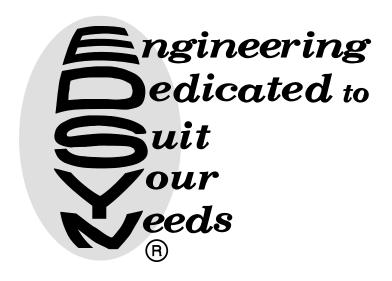


ITEM NO.	PART NO.	DESCRIPTION	QTY REQ'D
1	PD533	Tool Pod for Hot Air Tool	1
1A	SR042	Thermal Housing for Tool Pod	1
1B	SC581	Solder Collector for Tool Pod	1
1C	SR457	Front Housing for Tool Pod	1

971FX LONER® SOLDERING STATION SPARE PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
NO.		DESCRIPTION Consent Programs Models	REQ'D
2	SH230	General Purpose Sponge Holder	1 1
2A	RS199	Cleaning Sponge	1 1
2B	RS243	Leveling Pad for SH230	1
2C	LN230	Liner for SH230	1
2D	SH230-1	Sponge Holder Tray	1
3	SR577	Control Panel Label	1
4	SR065	Power Switch, Illuminated	1
5	SR045	Knob, Temperature Control	1
6	SR243	5K Potentiometer, Temperature Control	1
7	SR015	Flat Head Screw- Slotted #6 - 32 x 1/2	4
9	SR467	Hex Nut, Square Cone-#6 - 32	4
10	SR741	Top Base	1
11	SR019	Dove Tail Mount	1
12	15002W95	Circuit Board	1
13	SR573	LED Assy. Front Panel Mount	1
14	SR247	Bottom Base	1
15	SR011	Pan Head Screw- Phillip #6 - 18 x 5/8	4
16	SR054	Bottom Weight	1
17	SR252	Power Cord Assy.	1
17A	SR026	Power Cord only (Connectors not included)	1
18	SR251	Rubber Foot	4
19	SR226	Strain Relief Block for Tool Cord (Tool & Cord Assy. not included)	1
20	SR241	Strain Relief for Power Cord	1
21	SR249	Fuse, 250V, 1.6 A (5mm x 20 mm)	1
22	SR819	Soldering Tool, Complete Assembly	1
22A	SR579	Handle for Tool	1
22B	SR058	Tool Cord Strain Relief	1
22C	SR280	Tool Cord, Burn Proof (Connector Assy. on one end)	1
22D	SR574	Heater Assembly	1
22E	LTC71	Tip Collet	1
22F	RCS73	Retaining Collar and Sleeve for Fume Extraction	1
22G	LT375	LONER Standard Spade Tip	1
22H	SR001	O-Ring, Silicone, .30 ID	1
221	SR240	O-Ring, For Handle, .50 ID	1
22J	SR525	Hose, Low Static, 1/4 I.D. (sold per ft)	51/4"
22L	HS307	Hose, Low Static Silicone, 1/8 I.D. (sold per ft.)	3 ft.
23	SR301	Plug, Covering for Strain Relief, Tool Cord Outlet	1
24	SR255	Spacer for Potentiometer	1
25	SR310	Label, Set Pot, Right Front or Left Rear	1
26	PAS53	Pod Air Switch	1
27	VS174	Vacuum and Filter System	1

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