Instructions
for

EDSYN INC®

971e
LONER®

High Performance Soldering Station
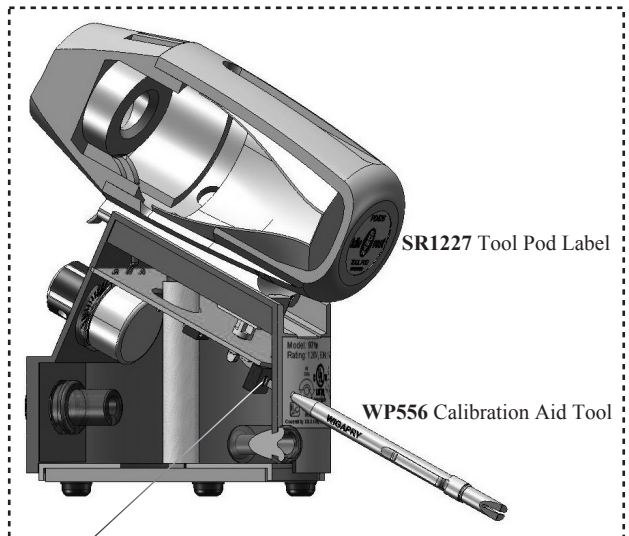

Product Features

- Our newest advanced station with precise temperature control that delivers rapid heat-up and recovery times

- Innovative direct tip-to-heater design provides quicker recovery and better sensing as well as more accurate and stable temperatures at the tip

- New and modern illuminated design for better visibility and to better indicate power on/off

- Innovative handle design makes tip change quicker and easier

- Illuminated temperature graduation markings

- Easy to maintain and calibrate with external calibration access

- Modular sponge tray

- Accepts a wide variety of tips

- RoHS compliant & ESD safe

- 18 month warranty

Package Contents

971e	Temperature Controlled Soldering Station includes XP375 Tip
PD528	Tool Pod
SH235	Modular Sponge Tray with RS200 Round Cleaning Sponge
WP556	WIGAPRY® Mini Screwdriver and Calibration Aid Tool

PD528 Tool Pod

Temp. Regulation Indicator

Power Switch

Illuminated Graduations

SH235 Modular Sponge Tray

High Performance Hollow Heater

Front Right Side View

SR1227 Tool Pod Label

WP556 Calibration Aid Tool

Calibration Pots for HI & LO Temp.

Rear Side Section View

Warning: Do not hit or tap the soldering tool. The ceramic heater element may break

Tip Care

1. Set desired temperature. Blinking Temperature Regulation Indicator means Tool is ready.
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 moist **RS200*** Sponge or **EA439** Dry Tip Cleaner and RE-TIN as needed with the **LT-1** Tip Tinner and Cleaner.

LT-1

Temperature Calibration

1. Turn on power and set Temperature Control Knob to 400°F (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 400°F (205°C).
6. Set Temperature Control Knob to 800°F (427°C).
7. Adjust Hi-Temp Calibration Pot so the Meter will read 800°F (427°C).

MS412
Digital Temperature
Measurement System

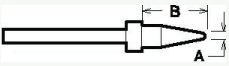For a quicker calibration for more than one station try using the **TP475** Temperature Probe

FX635

TI680

SDS100

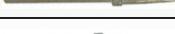* To avoid transferring debris back to your clean tip make sure you replaces the **RS200** sponge frequently.
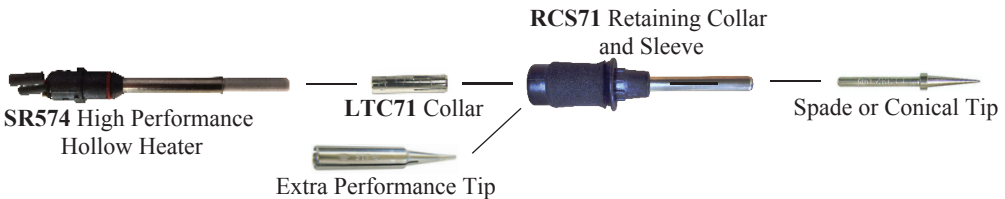
Changing Tip

1. **IMPORTANT:** Make sure your tool is cool.
2. Do not twist or wiggle Tip
3. Loosen RCS71 Collar by turning it counter-clockwise.
3. Remove old Soldering Tip.
4. Insert new Tip.
5. Tighten RCS71 Collar. (should be "finger" tight only)

WARNING: Do not use the soldering tool if soldering tip is loose. This will cause the heater element to break.

Soldering Tips Iron Plated for long life-Nickel and Chrome Plated for optimum heat transfer Contact Edsyn for more tip selections		Width A	Length B
	XP375 LONER Extra Performance Spade Soldering Tip	.06" (1.5mm)	.61" (15.5mm)
	XP441 LONER Extra Performance Spade Soldering Tip	.20" (5.0mm)	.59" (15.0mm)
	LT371LF LONER Spade Soldering Tip (Lead Free)	.03" (0.8mm)	.55" (14.0mm)
	LT375LF LONER Spade Soldering Tip (Lead Free)	.06" (1.5mm)	.48" (12.2mm)
	LT375 LONER Spade Soldering Tip	.06" (1.5mm)	.48" (12.2mm)
	LT376 LONER Spade Soldering Tip	.12" (3.0mm)	.48" (12.2mm)
	LT394 LONER Spade Soldering Tip	.07" (1.8mm)	.93" (23.6mm)
	LT374 LONER Conical Soldering Tip	.03" (0.8mm)	.48" (12.2mm)
	LT382 LONER Conical Soldering Tip	.02" (0.5mm)	.62" (15.8mm)

More Tips are available at our website (www.edsyn.com) or in our General Line Catalog.

SET-UP REQUIRED FOR SPADE, CONICAL, AND EXTRA PERFORMANCE TIPS

SR574 High Performance Hollow Heater

LTC71 Collar

RCS71 Retaining Collar and Sleeve

Spade or Conical Tip

Extra Performance Tip

OPTIONAL:
Apply **AN112 Anti-Seize Compound** or
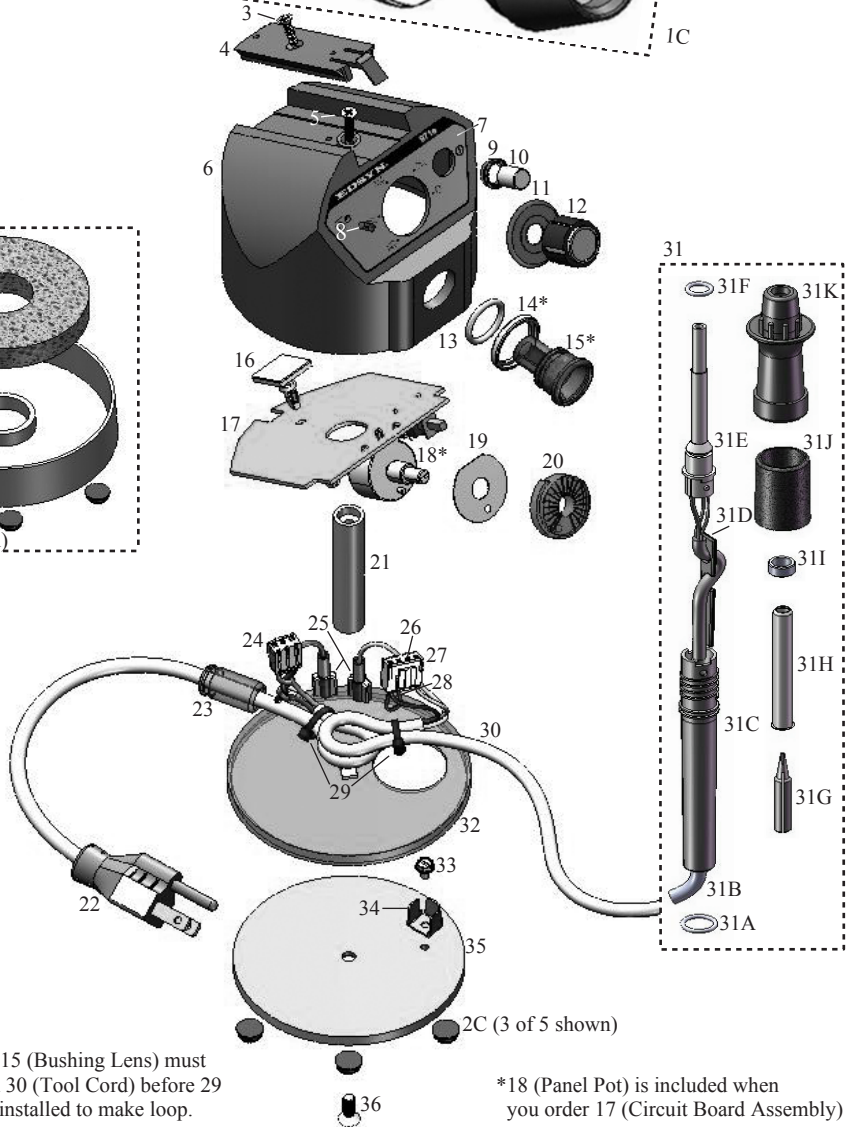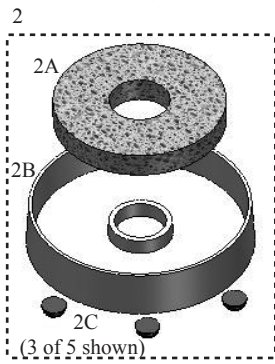**AN122 High Heat Anti-Seize Syringe Dispenser**
to Heater and area of Tip contact.

AN112

AN122

971e
Exploded View

Replace SC581 Solder Collector

1. Hold Thermal Housing (1A) firm and turn Front Housing (1C) counter-clockwise and pull it apart.
2. Remove used Solder Debris Collector (1B) and replace with a new one.
3. Reassemble (1A) to (1C) (for correct fit line up tabs to slots)
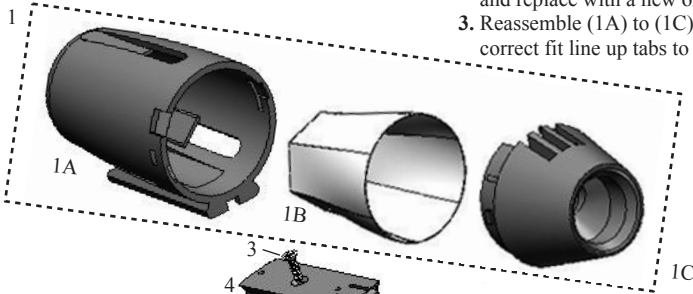
*14 (Ring) and 15 (Bushing Lens) must be installed on 30 (Tool Cord) before 29 (Cable Tie) is installed to make loop.

*18 (Panel Pot) is included when you order 17 (Circuit Board Assembly)

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Spare Parts List

ITEM NO.	PART NO.	DESCRIPTION	QTY. NEEDED
1	**PD528**	Tool Pod (includes SC581)	1
1A	**SR042**	Thermal Housing for Tool Pod	1
1B	**SC581**	Solder Debris Collector	1
1C	**SR043**	Front Housing for Tool Pod	1
2	**SH235**	Modular Sponge Tray Holder (includes RS200 round cleaning sponge)	1
2A	**RS200**	Round Cleaning Sponge	1
2B	**SR1225**	Sponge Tray	1
2C	**SR251**	Rubber Feet (Set of 4)	2.50 set
3	**SR367**	Phillips Flat Head Screw	1
4	**SR784**	Single Dovetail Track	1
5	**SR772**	Phillips Flat Head Screw	1
6	**SR1200**	Housing for Soldering Station	1
7	**SR1420**	Front Panel Label	1
8	**SR1226**	Front Panel Mount Light Pipe	1
9	**SR1202**	Switch Button Lens Ring	1
10	**SR1203**	Round Chrome Switch Cap	1
11	**SR1205**	Dial Face Lens Cover	1
12	**SR1204**	Black Control Knob	1
13	**SR1208**	Silicone O-Ring	1
14	**SR1207**	Ring for Tool Cord Bushing Lens	1
15	**SR1206**	Tool Cord Bushing Lens	1
16	**SR1224**	Locking PCB Support	1
17	**SR1223**	Circuit Board Assembly	1
18*	**SR1211**	5K Wire-Wound Panel Pot	1
19	**SR1210**	Background Washer for Dial Face	1
20	**SR1209**	Dial Face Lens	1
21	**SR1212**	Base Post Enclosure	1

* Included when ordering circuit board assembly

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Spare Parts List Cont'd.

ITEM NO.	PART NO.	DESCRIPTION	QTY NEEDED
22	**SR1221**	Power Cord Assembly	1
23	**SR1222**	Power Cord Bushing Lens	1
24	**SR432**	3 Circuit Housing Connector (Set of 3)	.3 set
25	**SR495**	Female Fully Insulated Connector (Set of 5)	.4 set
26	**SR415**	Terminal Crimp (Set of 10)	.3 set
27	**SR1213**	4 Circuit Housing Connector	1
28	**SR445**	Black Wire	.16ft
29	**SR1214**	Cable Tie	2
30	**SR059**	Tool Cord	1
31*	**SR575**	High Performance Soldering Tool, Complete Assembly	1
31A	**SR240**	O-Ring	1
31B	**SR525**	Static-Safe Silicone Black Hose	.43ft
31C	**SR579**	Handle	1
31D	**SR058**	Strain Relief	1
31E	**SR574**	High Performance Hollow Heater Assembly (includes Shrink Sleeving)	1
31F	**SR001**	O-Ring	1
31G	**XP375**	LONER Extra Performance Spade Soldering Tip	1
31H	**HPS82**	Retaining Sleeve	1
31I	**SR881**	Teflon Washer	1
31J	**SR063**	Vinyl Sleeve	1
31K	**SR1421**	Threaded Collar	1
32	**SR1216**	Clear Lens Base Cover	1
33	**SR1217**	Hex Screw	1
34	**SR1220**	3 Terminal Ground Lug	1
35	**SR1218**	Metal Base	1
36	**SR1219**	Flat Head Screw	1

* Also included are items 30,29,28,27,26,15,14, and 13.

Specifications

Power Requirements	120V, 60Hz
Power Rating	15W - 220W
Heater Rating	120V, 95W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulations	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.11"W x 6½"H x 4"D 104 mm x 166mm x 102 mm
Weight	2.12bs (.96 kg)

Warranty

Technical Support

Contact our Customer Service for assistance related to the purchase of this product or recommendations on a challenge that you may encounter. There are many replacement parts that are available to keep your tool in top condition. To speak to someone in Customer Service, call 818-989-2324.

Designed Patented & Assembled in U.S.A.

Design, color, weight, and material subject to change without notice. Components from other designs may be used with information pertaining to it, but not applicable to another use. Labels and instructions will supersede this information.

EDSYN INC ®

...bringing innovative ideas to life