

Alpha - Numeric Index

Stations and Tools

900	3, 6, 14
900-10	3, 14
902	3, 6, 14
902-10	3, 14
920	3, 6, 14
925	3, 6, 14
930	3, 6, 14
935	3, 6, 14
951	3, 6, 14
951A	3, 8, 14
951DP	10, 15
951DX	3, 6, 14
951HP	10, 15
951SX	3, 6, 14
952	3, 6, 14
952A	3, 8, 14
952DP	10, 15
952DX	3, 6, 14
952HP	10, 15
952HX ...	3, 6, 10, 14, 15
952SX	3, 6, 14
971	3, 15
971DX	3, 15
971FX	3, 15
971HA	18, 21
971HP	27
972	3, 15
972DX	3, 15
981	3, 6, 14, 29
1032	18, 21
1036	18, 21
1036DX	18, 21
1051	18, 21
1052	18, 21
1052HP ...	10, 15, 18, 21
CL1080	3, 6, 14
CL1180	3, 6, 14
CL1481	3, 8, 14
CL1484	3, 6, 14
FA069	18, 21, 27
HT500	12, 13, 27
HT500-2	12
IP329	3, 6, 14
LST10	3, 8, 14
LST11	3, 6, 14
PD529	17, 20, 22, 23, 24
PS536	3, 6, 14
RS199	28
SDS100	27
ST707	28
MCS100HA	18, 21
MCS100-S	10, 11, 15, 29
TSX70	26
ZD500DX	12
ZD500HA	18, 21
ZD500HA-3	18, 21
ZD505V	12
ZD905V	12
ZD906	12, 18, 21

Tips

A

AC735	6, 8, 14, 21
AC736	13

C

CH12	17
CH12R	17
CH17	17
CH17R	17
CH22	17

CH22R	17
CH31	17
CH31R	17
CH37	17
CH37R	17
CH43	17
CH43R	17
CT12	16
CT21	16
CT25	16
CT31	16
CT42	16
CT52	16
CT53	16
CT110	16
CT113	16
CT116	16
CT118	16
CT504	16
CT509	16
CT510	16
CT711	16
CT919	16
CT0808	17
CT0814	17
CT1010	17
CT1313	17
CT1315	17
CT1515	17
CT1616	17
CT1723	17
CT1818	17
CT2020	17
CT2626	17
CT3131	17
CT3434	17
CTA02	14
CTA03	15
CTS71	14

H

HC273	3, 10, 11, 13
HP107A	9
HP107BC	7
HP371	10
HP374	11
HP375	10
HP376	10
HP380	11
HP382	11
HP394-1	11
HP395	10
HP398	11
HP399	11
HP424	10
HP429	11
HP429-1	11
HP439-1	11
HP441	10
HP444	10
HP444-1	11
HP602-1	11
HP603	11
HPA02	10, 11, 15
HPC71	10
HPS72	10, 11, 15
HS106A	9
HS106BC	7

I

IT736	13
-------	----

L

LT054-1	5
---------	---

LT055-1	5
LT151AH	9
LT151BH	7
LT152AH	9
LT152BH	7
LT153AH	9
LT153BH	7
LT155AH	9
LT155BH	7
LT222A	9
LT222BC	7
LT223A	9
LT223BC	7
LT224A	9
LT224BC	7
LT336A	9
LT336BC	7
LT337A	9
LT337BC	7
LT338A	9
LT338BC	7
LT339A	9
LT339BC	7
LT340A	9
LT340BC	7
LT341A	9
LT341BC	7
LT371	4
LT373	5
LT374	4
LT375	4
LT376	4
LT380	4
LT381	4
LT382	4
LT383	4
LT387	5
LT392	4
LT392-1	5
LT393	5
LT394	4
LT394-1	5
LT395	4
LT397A	9
LT397A-1	9
LT397BC	7
LT397BC-1	7
LT398	5
LT399	5
LT0404	24, 25
LT0410	24, 25
LT424	4
LT425	4
LT426	19
LT427	19
LT428	19
LT429	4
LT429-1	5
LT430	5
LT431	4
LT432	19
LT434	19
LT435	19
LT436	19
LT439	4
LT439-1	5
LT441A	9
LT441BC	7
LT442	4
LT444	4
LT444-1	5

LT445	5
LT446	4
LT447	22, 25
LT448	22, 25
LT449	22, 25
LT450	22, 25
LT451	22, 25
LT452	22, 25
LT454	22, 25
LT455	22, 25
LT456	22, 25
LT456-1	22, 25
LT457	22, 25
LT458	22, 25
LT458-1	22, 25
LT459	22, 25
LT459-1	22, 25
LT460	23, 25
LT460-1	23, 25
LT462	23, 25
LT463	23, 25
LT468	23, 25
LT469	23, 25
LT470	23, 25
LT472	23, 25
LT477	23, 25
LT478	23, 25
LT480	23, 25
LT481	23, 25
LT482	23, 25
LT483	23, 25
LT484	23, 25
LT485	24, 25
LT486	24, 25
LT488	24, 25
LT489	24, 25
LT490	5
LT491	24, 25
LT492	24, 25
LT492-1	24, 25
LT493	24, 25
LT494	24, 25
LT510	19
LT511	19
LT512	19
LT513	19
LT526	19
LT534	19
LT535	19
LT536	19
LT537	19
LT570A	9
LT570BC	7
LT571	20
LT572	20
LT602-1	5
LT603	4
LT0606	24, 25
LT771	5
LT0808	24, 25
LT0909	24, 25
LT1416	24, 25
LT1629	24, 25
LT1824	24, 25
LT2228	24, 25
LTA02	15, 21
LTC71	3, 15
LU25	20
LU26	20
LU27	20
LU28	20

LU29	20
LU30	20
LU374	11
LU375	11
LU376	11
LU424	11
LU429	11
LU444	11
LU571	20
LU572	20
LUA02	10
LUA21	18, 21
LUA35H	15

M

MT145A	9
MT145BC	7

R

RCS71	3, 10, 15
RN432	21, 22, 23, 24
RN433	21, 22, 23, 24
RS199	28
RS271	6
RS321	15, 18, 21
RS351	6
RS372	3
RS383	12, 13
RSX72	26

T

TA350	6
TC271	27
TC273	27
TC372	27
TC383	27
TCS71	27
TCS82	27
TSX713	26
TSX715	26
TSX716	26
TSX717	26
TSX718	26

W

WT622	20
-------	----

Z

ZD08	12
ZD09	12
ZD10	12
ZD11	12
ZD12	12
ZD13	12
ZD14	12
ZD18	12
ZD19	12
ZD25	13
ZD26	13
ZD27	13
ZD28	13
ZD29	13
ZD30	13
ZD57	13
ZD58	13
ZD60	13
ZD61	13
ZD70	13
ZD71	13
ZD107	12
ZD111	12
ZD112	12
ZD113	12
ZD115	12
ZD118	12



LONER Soldering Tips3

- General Purpose Tips 3, 4, 5
- Heavy Duty and Jumbo Threadless Tips 6, 7
- Heavy Duty and Jumbo Threaded Tips 8, 9
- High Performance Tips 10, 11
- Universal Tips 11



SOLDAPULLT Desoldering Tips12, 13



Surface Mount Rework Tips 14

- CROWN Series Tips 14, 15, 16, 17
- SMD Hot Air Tips 18, 19, 21
- Universal Hot Air Tips 20
- SMD Quadra-Flow Hot Air Tips 21, 22, 23, 24
- SMD Quadra-Flow Hot Air Tips (Listed by size) 25



Multi-Tasking26

- TSX70 SMD Vacuum Reflow Tips 26
- Possibly the best site preparation tool in the industry*



EDSYN Customer Service Calibration Procedure27

EDSYN Customer Service Tip Maintenance28



Hummerworks29



Manufactures of "The World's Most Practical Solder Handling Tools"

The Humming Bird, tiny yet complex airborne marvel symbolizes EDSYN's touchstone to Precise Performance.

The kind of performance built into every tool and tip we make, backed by service and engineering dedicated to suit your needs.

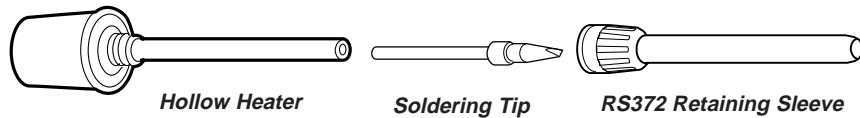
By design.

LONER General Purpose and SMD Soldering Tips

1. Hollow Heater Soldering Tools and Stations

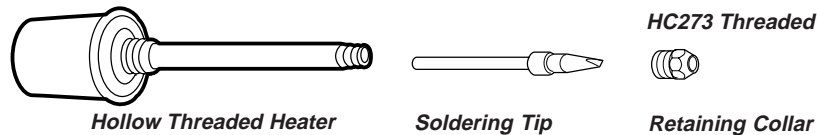
Part No.	Description
920	LONER Soldering Station with CL1180 Soldering Tool and IP329 Base
925	LONER Soldering Station with CL1180 Soldering Tool and PS536 Power Supply
930	LONER Soldering Station with CL1080 Soldering Tool and IP329 Base
935	LONER Soldering Station with CL1080 Soldering Tool and PS536 Power Supply
951	LONER Soldering Station
951DX*	LONER Deluxe Soldering Station
951SX	LONER Soldering Station
952	LONER Dual Soldering Station
952DX*	LONER Dual Deluxe Soldering Station
952HX*	LONER Dual High Performance and Standard Soldering Station
952SX	LONER Dual Soldering Station
981*	LONER Digital Soldering Station
CL1080	LONER Temperature Controlled Soldering Tool (For 930 and 935 Stations)
CL1180	LONER Temperature Controlled Soldering Tool (For 920 and 925 Stations)
CL1484	LONER Constant Temperature Soldering Tool
LST11	LONER Soldering Tool (For 900 and 902 Stations)

*International Series available



2. Hollow Threaded Heater Soldering Tools and Stations

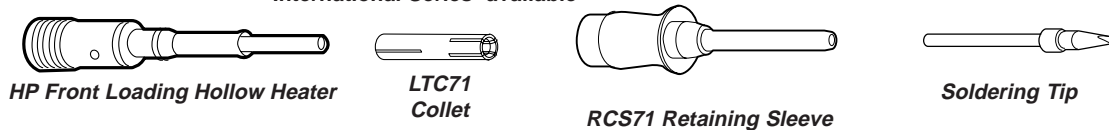
Part No.	Description
951A	LONER Soldering Station
952A	LONER Dual Soldering Station
CL1481	LONER Constant Temperature Soldering Tool
LST10	LONER Soldering Tool (For 900-10 and 902-10 Stations)



3. HP Front Loading Hollow Heater Soldering Tools and Stations

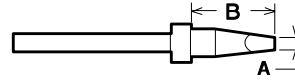
Part No.	Description
971*	LONER High Performance Temperature Controlled Soldering Station
971DX*	LONER Deluxe High Performance Temperature Controlled Soldering Station
971FX	LONER Soldering Station with Fume Extraction System
972	LONER High Performance Dual Temperature Controlled Soldering Station
972DX	LONER Deluxe High Performance Dual Temperature Controlled Soldering Station

*International Series available



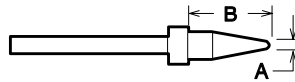
(NOTE: Loosen collar when changing tips. DO NOT remove sleeve.)

LONER General Purpose and SMD Soldering Tips*



LONER Spade Tips

Part No.	Graphic (actual size)	Width A	Length B
LT371		.03" (0.8 mm)	.55" (14.0 mm)
LT375		.06" (1.5 mm)	.48" (12.2 mm)
LT376		.12" (3.0 mm)	.48" (12.2 mm)
LT394		.07" (1.8 mm)	.93" (23.6 mm)
LT395		.09" (2.3 mm)	.74" (18.8 mm)
LT424		.06" (1.5 mm)	.74" (18.8 mm)
LT425		.05" (1.3 mm)	.93" (23.6 mm)
LT431		.07" (1.8 mm)	.74" (18.8 mm)
LT444		.04" (1.0 mm)	.78" (19.8 mm)

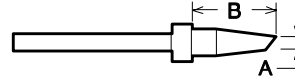


LONER Conical Tips

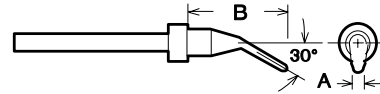
Part No.	Graphic (actual size)	Width A	Length B
LT374		.03" (0.8 mm)	.48" (12.2 mm)
LT380		.02" (0.5 mm)	.32" (8.1 mm)
LT381		.02" (0.5 mm)	.47" (11.9 mm)
LT382		.02" (0.5 mm)	.62" (15.8 mm)
LT383		.02" (0.5 mm)	.72" (18.3 mm)
LT392		.01" (0.3 mm)	1.13" (28.7 mm)
LT429		.02" (0.5 mm)	.74" (18.8 mm)
LT439		.03" (0.8 mm)	.50" (12.7 mm)
LT442		.04" (1.0 mm)	.74" (18.8 mm)
LT446		.03" (0.8 mm)	.48" (12.2 mm)
LT603		.02" (0.5 mm)	.69" (17.5 mm)

*For Hollow Heater, Hollow Threaded Heater, and HP Front Loading Hollow Heater (see page 3)

LONER General Purpose and SMD Soldering Tips*



LONER Angle Face	Part No.	Graphic (actual size)	Width A	Length B
	LT373		.09" (2.3 mm)	.59" (15.0 mm)
	LT387		.06" (1.5 mm)	.48" (12.2 mm)
	LT393		.06" (1.5 mm)	.94" (23.9 mm)
	LT398		.12" (3.0 mm)	.59" (15.0 mm)
	LT399		.16" (4.0 mm)	.59" (15.0 mm)
	LT430		.06" (1.5 mm)	.74" (18.8 mm)
	LT445		.03" (0.8mm)	.48" (12.2 mm)
	LT490		.04" (0.8 mm)	.78" (19.8 mm)



LONER Angled Spade	Part No.	Graphic (actual size)	Width A	Length B
	LT055-1		.03" (0.8 mm)	.31" (7.9 mm)
	LT394-1		.07" (1.8 mm)	.93" (23.6 mm)
	LT444-1		.04" (1.0 mm)	.78" (9.8 mm)

LONER Angled Conical	Part No.	Graphic (actual size)	Width A	Length B
	LT054-1		.02" (0.5 mm)	.31" (7.9 mm)
	LT392-1		.01" (0.3 mm)	1.13" (28.8 mm)
	LT429-1		.02" (0.5 mm)	.74" (18.8 mm)
	LT439-1		.03" (0.8 mm)	.50" (12.7 mm)
	LT602-1		.02" (0.5 mm)	.44" (11.2 mm)

LONER Nickel-Plated Angled Cup	Part No.	Graphic (actual size)	Length B
	LT771		.74" (18.8 mm) .04" (1.0 mm) i.d. .06" (1.5 mm) o.d.

*For Hollow Heater, Hollow Threaded Heater, and HP Front Loading Hollow Heater (see page 3)

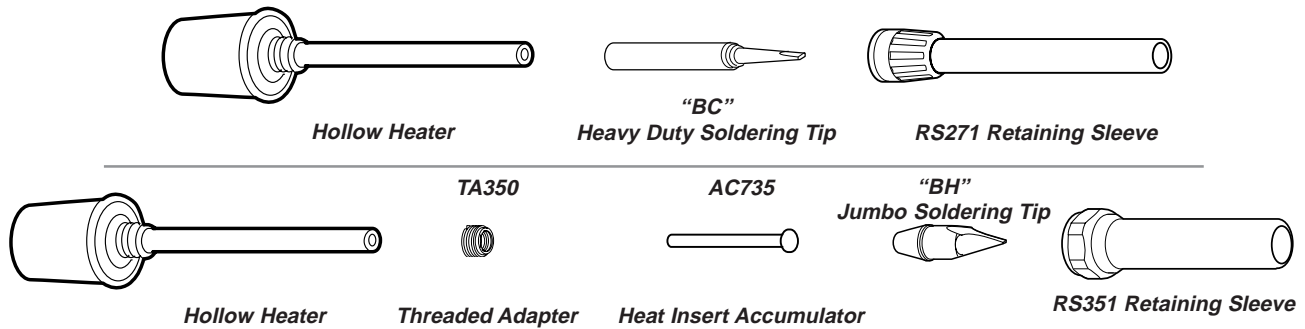


LONER Heavy Duty and Jumbo Threadless Soldering Tips

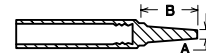
Hollow Heater Soldering Tools and Stations

Part No.	Description
920	LONER Soldering Station with CL1180 Soldering Tool and IP329 Base
925	LONER Soldering Station with CL1180 Soldering Tool and PS536 Power Supply
930	LONER Soldering Station with CL1080 Soldering Tool and IP329 Base
935	LONER Soldering Station with CL1080 Soldering Tool and PS536 Power Supply
951	LONER Soldering Station
951DX*	LONER Deluxe Soldering Station
951SX	LONER Soldering Station
952	LONER Dual Soldering Station
952DX*	LONER Dual Deluxe Soldering Station
952HX*	LONER Dual High Performance and Standard Soldering Station
952SX	LONER Dual Soldering Station
981*	LONER Digital Soldering Station
CL1080	LONER Temperature Controlled Soldering Tool (For 930 and 935 Stations)
CL1180	LONER Temperature Controlled Soldering Tool (For 920 and 925 Stations)
CL1484	LONER Constant Temperature Soldering Tool
LST11	LONER Soldering Tool (For 900 and 902 Stations)

*International Series available



LONER Heavy Duty and Jumbo Threadless Soldering Tips*



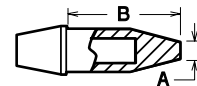
LONER Spade Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HS106BC		.18" (4.6 mm)	.45" (11.4 mm)
	LT223BC		.06" (1.5 mm)	1.21" (30.7 mm)
	LT224BC		.07" (1.8 mm)	.94" (23.9 mm)
	LT336BC		.07" (1.8 mm)	.74" (18.8 mm)
	LT337BC		.10" (2.5 mm)	.74" (18.8 mm)
	LT338BC		.13" (3.3 mm)	.74" (18.8 mm)
	LT397BC		.14" (3.3 mm)	.94" (23.9 mm)
	LT441BC		.21" (5.3 mm)	.94" (23.9 mm)
	MT145BC		.08" (2.0 mm)	.62" (15.7 mm)

LONER Conical Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HP107BC		.04" (1.0 mm)	.68" (17.3 mm)
	LT222BC		.04" (1.0 mm)	1.21" (30.7 mm)

LONER Angle Face Tips	Part No.	Graphic (not to scale)	Width A	Length B
	LT339BC		.09" (2.3 mm)	.77" (19.6 mm)
	LT340BC		.12" (3.0 mm)	.77" (19.6 mm)
	LT341BC		.16" (4.0 mm)	.77" (19.6 mm)

LONER Angled Tips	Part No.	Graphic (not to scale)	Width A	Length B
	LT397BC-1		.13" (3.3 mm)	.94" (23.7 mm)

LONER SMD Knife Tip	Part No.	Graphic (not to scale)	Width A	Length B
	LT570BC		.17" (4.3 mm)	.68" (17.3 mm)



LONER Jumbo Spade & Angle Face Tips	Part No. (Nickel-Plated)	Graphic (not to scale)	Width A	Length B
	LT151BH		.06" (1.5 mm)	1.13" (28.7 mm)
	LT152BH		.32" (8.1 mm)	.89" (22.6 mm)
	LT153BH		.20" (5.1 mm)	1.15" (29.2 mm)
	Part No. (Nickel-Plated)	Graphic (not to scale)	Width A	Length B
	LT155BH		.33" (8.4 mm)	.97" (24.6 mm)

*For Hollow Heater (see page 6)

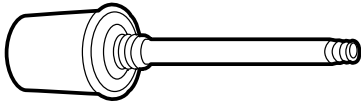
LONER Heavy Duty and Jumbo Threadless Soldering Tips



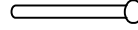
LONER Heavy Duty and Jumbo Threaded Soldering Tips

Hollow Threaded Heater Soldering Tools and Stations

Part No.	Description
951A	LONER Soldering Station
952A	LONER Dual Soldering Station
CL1481	LONER Constant Temperature Soldering Tool
LST10	LONER Soldering Tool (For 900-10 and 902-10 Stations)



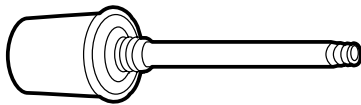
Hollow Threaded Heater



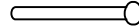
AC735
Heat Insert Accumulator



"A"
Heavy Duty Soldering Tip



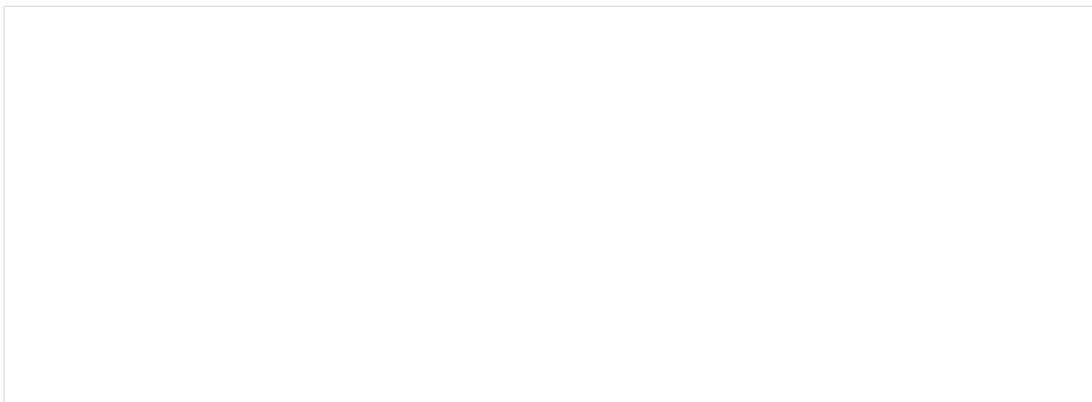
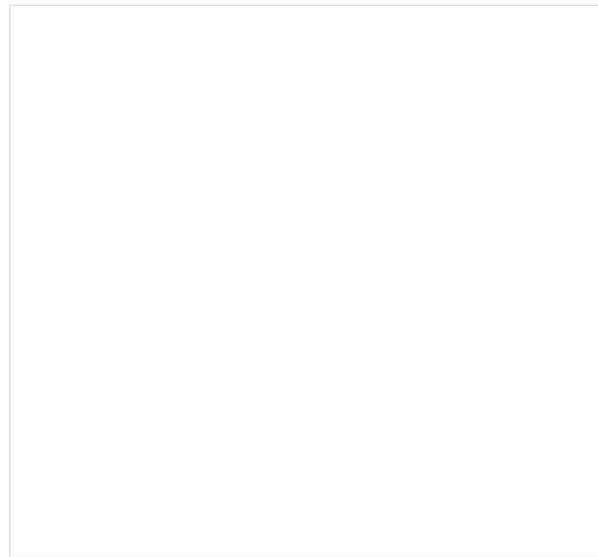
Hollow Threaded Heater



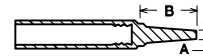
AC735
Heat Insert Accumulator



"AH"
Jumbo Soldering Tip



LONER Heavy Duty and Jumbo Threaded Soldering Tips*



LONER Spade Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HS106A		.18" (4.6 mm)	.45" (11.4 mm)
	LT223A		.06" (1.5 mm)	1.21" (30.7 mm)
	LT224A		.07" (1.8 mm)	.94" (23.9 mm)
	LT336A		.07" (1.8 mm)	.74" (18.8 mm)
	LT337A		.10" (2.5 mm)	.74" (18.8 mm)
	LT338A		.13" (3.3 mm)	.74" (18.9 mm)
	LT397A		.13" (3.3 mm)	.94" (23.9 mm)
	LT441A		.21" (5.3 mm)	.94" (23.9 mm)
	MT145A		.08" (2.0 mm)	.62" (15.7 mm)

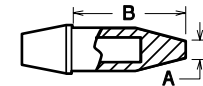
LONER Conical Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HP107A		.04" (1.0 mm)	.68" (17.3 mm)
	LT222A		.04" (1.0 mm)	1.21" (30.7 mm)

LONER Angle Face Tips	Part No.	Graphic (not to scale)	Width A	Length B
	LT339A		.09" (2.3 mm)	.77" (19.6 mm)
	LT340A		.12" (3.0 mm)	.77" (19.6 mm)
	LT341A		.16" (4.0 mm)	.77" (19.6 mm)

LONER Angled Tips	Part No.	Graphic (not to scale)	Width A	Length B
	LT397A-1		.13" (3.3 mm)	.94" (23.9 mm)

LONER SMD Knife Tip	Part No.	Graphic (not to scale)	Width A	Length B
	LT570A		.17" (4.3 mm)	.68" (17.3 mm)

LONER Jumbo Spade & Angle Face Tips	Part No. (Nickel-Plated)	Graphic (not to scale)	Width A	Length B
	LT151AH		.06" (1.5 mm)	1.13" (28.9 mm)
	LT152AH		.32" (8.1 mm)	.89" (22.6 mm)
	LT153AH		.20" (5.1 mm)	1.15" (29.2 mm)
	Part No. (Nickel-Plated)	Graphic (not to scale)	Width A	Length B
	LT155AH		.33" (8.4 mm)	.97" (24.6 mm)



*For Hollow Threaded Heater (see page 8)

LONER Heavy Duty and Jumbo Threaded Soldering Tips

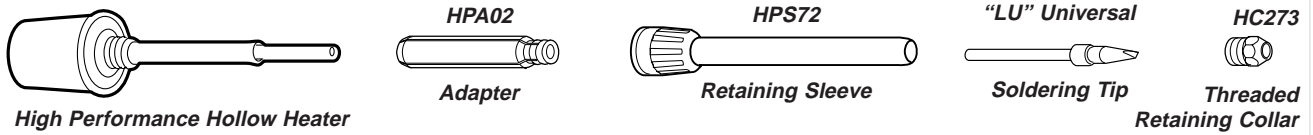
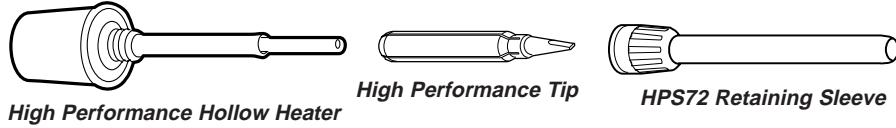


LONER High Performance and Universal Soldering Tips*

1. HP High Performance Hollow Heater Soldering Tools and Stations

Part No.	Description
951DP*	LONER Deluxe High Performance Soldering Station
952DP*	LONER Deluxe High Performance Dual Soldering Station
951HP*	LONER High Performance Soldering Station
952HP*	LONER High Performance Dual Soldering Station
952HX*	LONER Dual High Performance and Standard Soldering Station
1052HP*	LONER ATMOSCOPE SMT Hot Air High Performance Soldering Station

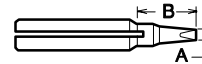
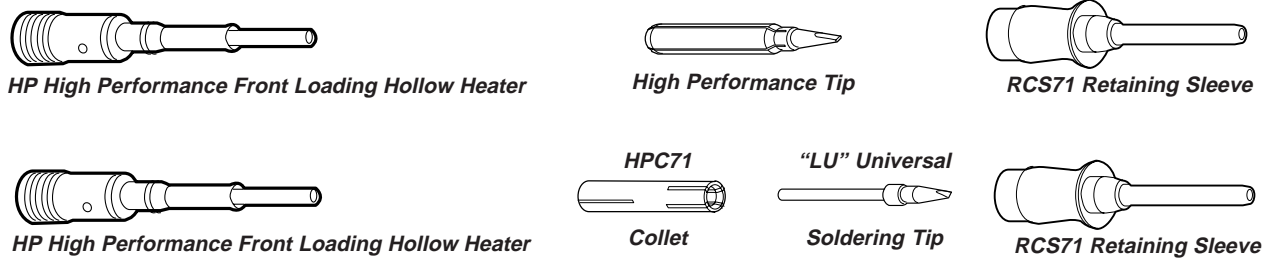
*International Series available



2. HP Front Loading Hollow Heater Soldering Tools and Stations

Part No.	Description
MCS100-S*	LONER High Performance Master Control Soldering System

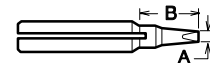
*International Series available



LONER HP Spade Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HP371		.03" (0.8 mm)	.57" (14.5 mm)
	HP375		.06" (1.5 mm)	.57" (14.5 mm)
	HP376		.12" (3.0 mm)	.57" (14.5 mm)
	HP395		.09" (2.3 mm)	.79" (20.1 mm)
	HP424		.06" (1.5 mm)	.79" (20.0 mm)
	HP441		.20" (5.1 mm)	.55" (14.0 mm)
	HP444		.04" (1.0 mm)	.83" (21.1 mm)

*For High Performance Hollow Heater

LONER High Performance and Universal Soldering Tips



LONER HP Conical Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HP380		.02" (0.5 mm)	.49" (12.4 mm)
	HP429		.02" (0.5 mm)	.76" (19.3 mm)

LONER HP Angle Face Tip	Part No.	Graphic (not to scale)	Width A	Length B
	HP399		.21" (5.3 mm)	.39" (9.9 mm)

LONER HP Angled Spade Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HP444-1		.02" (0.5 mm)	.76" (19.3 mm)

LONER HP Angled Conical Tips	Part No.	Graphic (not to scale)	Width A	Length B
	HP439-1		.04" (1.0 mm)	.75" (19.0 mm)

LONER Universal Tips	Part No.	Graphic (not to scale)	Width A	Length B
	LU375		.06" (1.5 mm)	.48" (12.2 mm)
	LU424		.06" (1.5 mm)	.74" (18.8 mm)
LU444		.04" (1.0 mm)	.78" (19.8 mm)	

Soldering

*For High Performance Hollow Heater (see page 10)

LONER High Performance and Universal Soldering Tips

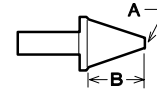
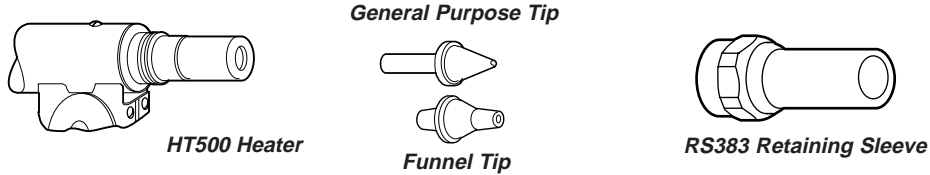


SOLDAPULLT Desoldering Tips

HT500 Heater Desoldering Hand Tools and Stations

Part No.	Description
HT500	SOLDAPULLT Hot Tip Desoldering Tool for ZD505V, ZD905V, ZD906 Desoldering Stations
HT500-2	SOLDAPULLT Hot Tip Desoldering Tool for ZD500DX Deluxe Desoldering Station
ZD500DX*	SOLDAPULLT Self-Contained Deluxe Hot Tip Desoldering Station
ZD505V*	SOLDAPULLT Hot Tip Desoldering Station
ZD905V*	SOLDAPULLT LONER Hot Tip Desoldering and Soldering Station
ZD906	SOLDAPULLT, ATMOSCOPE and LONER Shop Air Powered Rework Station

*International Series available



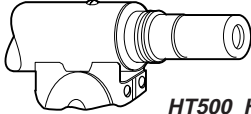
Desoldering

SOLDAPULLT Steel General Purpose Tips	Part No.	Graphic (not to scale)	Hole Dia. A	Length B
	ZD08		.03" (0.8 mm)	.44" (11.8 mm)
	ZD09		.07" (1.8 mm)	.44" (11.8 mm)
	ZD10		.04" (1.0 mm)	.44" (11.8 mm)
	ZD11		.06" (1.5 mm)	.44" (11.8 mm)


SOLDAPULLT Iron- Plated General Purpose Tips	Part No.	Graphic (not to scale)	Hole Dia. A	Length B
	ZD12		.03" (0.8 mm)	.50" (12.7 mm)
	ZD13		.04" (1.0 mm)	.50" (12.7 mm)
	ZD14		.06" (1.5 mm)	.50" (12.7 mm)
	ZD18		.07" (1.8 mm)	.50" (12.7 mm)
ZD19		.12" (3.0 mm)	.50" (12.7 mm)	

SOLDAPULLT Iron- Plated Funnel Tips	PartNo.	Graphic (not to scale)	Hole Dia. A	Length B
	ZD107		.02" (0.5 mm)	.48" (12.2 mm)
	ZD111		.03" (0.8 mm)	1.22" (31.0 mm)
	ZD112		.03" (0.8 mm)	.48" (12.2 mm)
	ZD113		.04" (1.0 mm)	.48" (12.2 mm)
	ZD115		.07" (1.8 mm)	1.22" (31.0 mm)
ZD118		.07" (1.8 mm)	.48" (12.2 mm)	

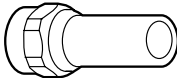
SOLDAPULLT Desoldering Tips




HT500 Heater




AC736 Tip Adapter
with IT736 Inner Tube






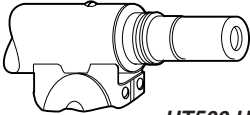
RS383
Retaining Sleeve




Replacement
Tiptet



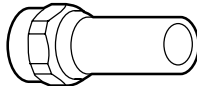
SOLDAPULLT Replacement Tiptets	Part No.	Graphic (not to scale)	Hole A	Length B
	ZD25		.03" (0.8 mm)	.39" (9.9 mm)
	ZD26		.04" (1.0 mm)	.39" (9.9 mm)
	ZD27		.07" (1.8 mm)	.39" (9.9 mm)




HT500 Heater







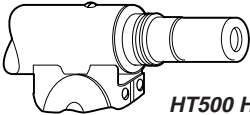
SMD Tip



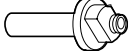
RS383 Retaining Sleeve



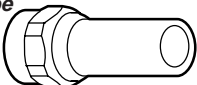
SOLDAPULLT SMD Desoldering Tips	Part No.	Graphic (not to scale)	Hole A	Length B
	ZD57		.10" (2.5 mm)	.55" (14.0 mm)
	ZD58		.13" (3.3 mm)	.55" (14.0 mm)
	ZD60		.15" (3.8 mm)	.55" (14.0 mm)
	ZD61		.25" (6.4 mm)	.55" (14.0 mm)



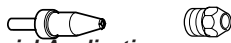
HT500 Heater



AC736 Tip Adapter
without IT736 Inner Tube







RS383
Retaining Sleeve





HC273 Threaded
Retaining Collar

Special Application or Economy Tip



SOLDAPULLT Economy Replacement Tips	Part No.	Graphic (not to scale)	Hole A	Length B
	ZD28		.03" (0.8 mm)	.30" (7.6 mm)
	ZD29		.04" (1.0 mm)	.30" (7.6 mm)
	ZD30		.06" (1.5 mm)	.30" (7.6 mm)

SOLDAPULLT Special Applications	Part No.	Graphic (not to scale)	Hole A	Length B
	ZD70		.08" (2.0 mm)	.30" (7.6 mm)
	ZD71		.08" (2.0 mm)	.30" (7.6 mm)

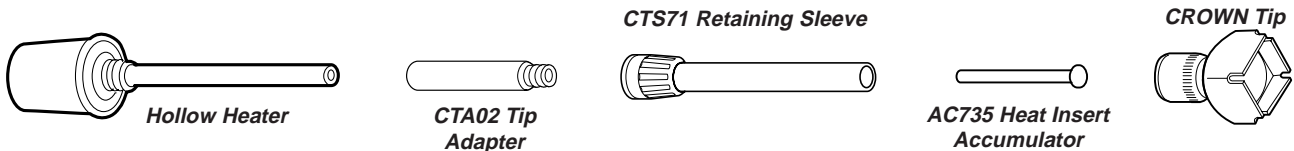
Desoldering

CROWN Series Contact Surface Mount Tips

1. Hollow Heater Soldering Tools and Stations

Part No.	Description
920	LONER Soldering Station with CL1180 Soldering Tool and IP329 Base
925	LONER Soldering Station with CL1180 Soldering Tool and PS536 Power Supply
930	LONER Soldering Station with CL1080 Soldering Tool and IP329 Base
935	LONER Soldering Station with CL1080 Soldering Tool and PS536 Power Supply
951	LONER Soldering Station
951DX*	LONER Deluxe Soldering Station
951SX	LONER Soldering Station
952	LONER Dual Soldering Station
952DX*	LONER Deluxe Dual Soldering Station
952HX*	LONER Dual High Performance and Standard Soldering Station
952SX	LONER Dual Soldering Station
981*	LONER Digital Soldering Station
CL1080	LONER Temperature Controlled Soldering Tool (For 930 and 935 Stations)
CL1180	LONER Temperature Controlled Soldering Tool (For 920 and 925 Stations)
CL1484	LONER Constant Temperature Soldering Tool
LST11	LONER Soldering Tool (For 900 and 902 Stations)

*International Series available



2. Hollow Threaded Heater Soldering Tools and Stations

Part No.	Description
951A	LONER Soldering Station
952A	LONER Dual Soldering Station
CL1481	LONER Constant Temperature Soldering Tool
LST10	LONER Soldering Tool (For 900-10 and 902-10 Stations)

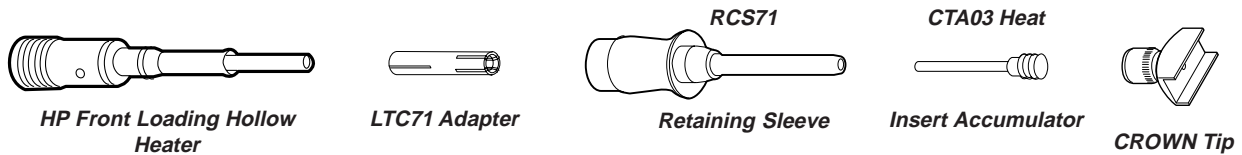


CROWN Series Contact Surface Mount Tips

3. HP Front Loading Hollow Heater Soldering Tools and Stations

Part No.	Description
971*	LONER High Performance Temperature Controlled Soldering Station
971DX*	LONER Deluxe High Performance Temperature Controlled Soldering Station
971FX	LONER Soldering Station with Fume Extraction System
972	LONER Dual High Performance Dual Temperature Controlled Soldering Station
972DX	LONER Deluxe High Performance Dual Temperature Controlled Soldering Station

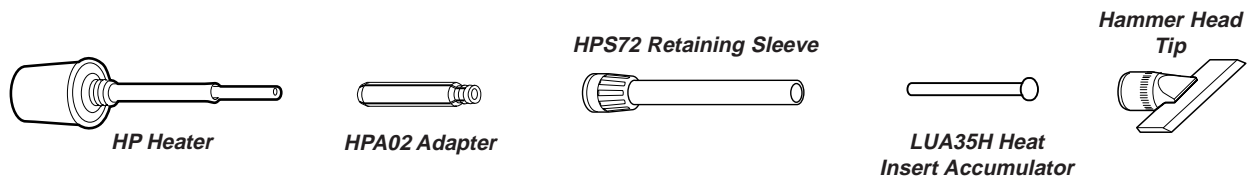
*International Series available



4. "HP" High Performance Heater Soldering Tools and Stations

Part No.	Description
951DP*	LONER Deluxe High Performance Soldering Station
952DP*	LONER Deluxe Deluxe High Performance Soldering Station
951HP	LONER High Performance Soldering Station
952HP*	LONER Dual High Performance Soldering Station
952HX*	LONER High Performance and Standard Soldering Station
1052HP*	LONER ATMOSCOPE SMD Hot Air High Performance Soldering Station
MCS100-S*	LONER High Performance Master Control Soldering System

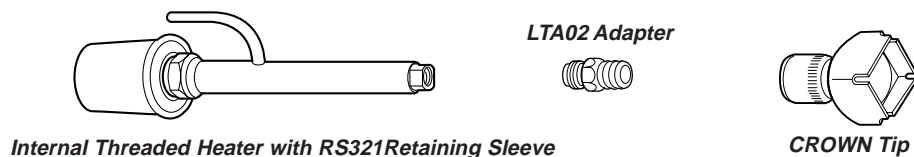
*International Series available



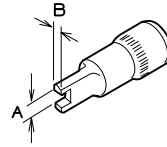
5. Internal Threaded Heater Hot Air Tools and Stations

Part No.	Description
----------	-------------








(See page 21, box no. 1, for complete listing of LONER ATMOSCOPE Hot Air Tools and Stations)

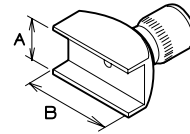


CROWN Series Contact Surface Mount Tips

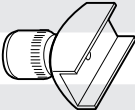
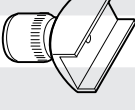
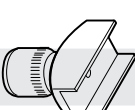
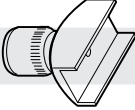
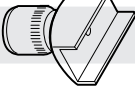

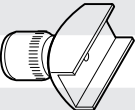
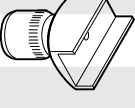



CROWN Fork SMD Tips

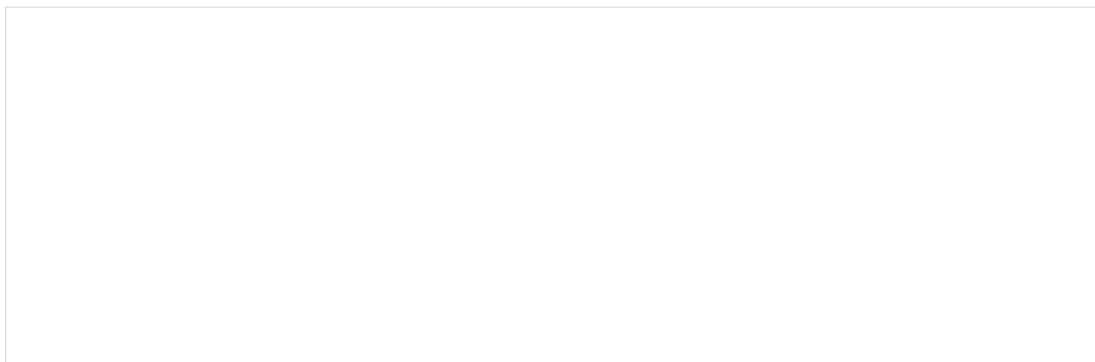
Part No.	Package	Graphic (not to scale)	Width A	Length B
CT12	SOT-23		.07" (1.8 mm)	.10" (2.5 mm)
CT21	805		.09" (2.3 mm)	.06" (1.5 mm)
CT25	SOT-89		.10" (2.5 mm)	.21" (5.3 mm)
CT31	1206, 1210		.14" (3.5 mm)	.07" (1.8 mm)
CT42	1808, 1812		.19" (4.8 mm)	.09" (2.3 mm)
CT52	N/A		.20" (5.1 mm)	.10" (2.5 mm)
CT53	N/A		.23" (5.8 mm)	.14" (3.5 mm)



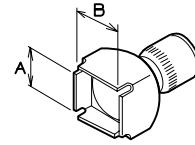
CROWN Tunnel SMD Tips

Part No.	Package	Graphic (not to scale)	Width A	Length B
CT110	SOIC-18		.38" (9.5 mm)	.40" (10.2 mm)
CT113	SOIC-20		.38" (9.5 mm)	.52" (13.2 mm)
CT116	SOIC-24		.38" (9.5 mm)	.62" (15.7 mm)
CT118	SOIC-28		.38" (9.5 mm)	.72" (18.2 mm)
CT504	SOIC-8		.20" (5.1 mm)	.18" (4.5 mm)
CT509	N/A		.20" (5.1 mm)	.34" (8.6 mm)
CT510	SOIC-14, 16		.20" (5.1 mm)	.41" (10.4 mm)
CT711	SOMC-16		.27" (6.9 mm)	.45" (11.4 mm)
CT919	SOJ-28		.34" (8.6 mm)	.74" (18.8 mm)

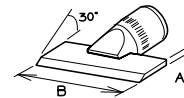
For Hollow Heater, Hollow Threaded Heater, HP Front Loading Hollow Heater, "HP" High Performance Heater and Internal Threaded Heater Hot Air Tools and Stations (see pages 14 and 15)



CROWN Series Contact Surface Mount Tips



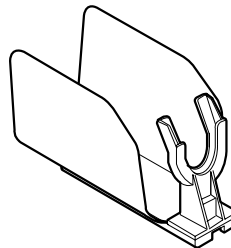
CROWN Quad SMD Tips	Part No.	Package	Graphic (not to scale)	Width A	Length B
	CT0808	N/A		.31" (7.9 mm)	.31" (7.9 mm)
	CT0814	PLCC-18		.34" (8.6 mm)	.54" (13.6 mm)
	CT1010	PLCC-20		.40" (10.2 mm)	.40" (10.2 mm)
	CT1313	PLCC-28		.50" (12.7 mm)	.50" (12.7 mm)
	CT1315	PLCC-32		.50" (12.7 mm)	.60" (15.4 mm)
	CT1515	TQFP-100		.60" (15.1 mm)	.60" (15.1 mm)
	CT1616	44-QFP		.64" (16.3 mm)	.64" (16.3 mm)
	CT1723	64/80-QFP		.68" (17.3 mm)	.92" (23.2 mm)
	CT1818	PLCC-44		.70" (17.8 mm)	.70" (17.8 mm)
	CT2020	PLCC-52		.81" (20.6 mm)	.81" (20.6 mm)
	CT2626	PLCC-68		1.0" (25.4 mm)	1.0" (25.4 mm)
CT3131	PLCC-84		1.20" (30.5 mm)	1.20" (30.5 mm)	
CT3434	N/A		1.30" (33.5 mm)	1.30" (33.5 mm)	



CROWN Hammer Head Tips	Part No.	Graphics (not to scale)	Length B
	CH12/CH12R*		.47" (11.9 mm)
	CH17/CH17R*	Radius	.65" (16.5 mm)
	CH22/CH22R*	Radius	.87" (22.0 mm)
	CH31/CH31R*	Radius	1.22" (31.0 mm)
	CH37/CH37R*	Radius	1.46" (37.0 mm)
	CH43/CH43R*	Radius	1.69" (43.0 mm)

*R = Radius on Hammer Head Tip

When using medium to large CROWN tips, always use PD529 tool holder.



For Hollow Heater, Hollow Threaded Heater, HP Front Loading Hollow Heater, "HP" High Performance Heater and Internal Threaded Heaters (see pages 14 and 15)

CROWN Series Contact Surface Mount Tips

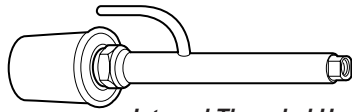


LONER ATMOSCOPE SMD Hot Air Tips

1. Internal Threaded Heater Hot Air Tools and Stations

Part No.	Description
971HA	LONER ATMOSCOPE SMT Hot Air Station
1032*	LONER ATMOSCOPE SMT Hot Air Station (with FA069 Hot Air Tool)
1036*	LONER ATMOSCOPE Self-Contained SMT Hot Air Station (with FA069 Hot Air Tool)
MCS100HA	LONER ATMOSCOPE Master Control Hot Air System
ZD500HA*	SOLDAPULLT and ATMOSCOPE Self-Contained Hot Tip Desoldering and Hot Air Rework Station (with FA069 Hot Air Tool)
ZD500HA-3*	SOLDAPULLT, ATMOSCOPE and LONER Self-Contained Desolder, Hot Air and Solder Rework Station (with FA069 Hot Air Tool)
ZD906*	SOLDAPULLT, ATMOSCOPE and LONER Shop Air Powered Rework Station (with FA069 Hot Air Tool)

***International Series available**



Internal Threaded Heater
with RS321 Retaining Sleeve

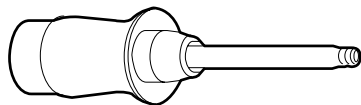


Hot Air Tip

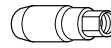
2. External Threaded Heater Soldering Tools and Stations

Part No.	Description
1036DX*	LONER ATMOSCOPE Self-Contained SMT Deluxe Hot Air Station
1051*	LONER ATMOSCOPE SMT Hot Air Station
1052*	LONER ATMOSCOPE SMT Hot Air and Soldering Station
1052HP*	LONER ATMOSCOPE SMT Hot Air and High Performance Soldering Station

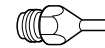
***International Series available**



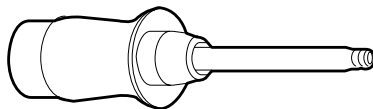
External Threaded Heater



LUA21
Universal
Adapter



Hot Air Tip

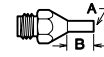


External Threaded Heater

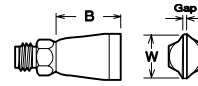


Universal Hot Air Tip

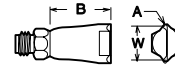
LONER ATMOSCOPE SMD Hot Air Tips*



LONER Single Nozzle Tips	Part No.	Graphic <i>(not to scale)</i>	Hole Dia. A	Length B
	LT427		.02" (0.5 mm)	.38" (9.5 mm)
	LT428		.06" (1.5 mm)	.25" (6.4 mm)
	LT432		.04" (1.0 mm)	.06" (1.5 mm)



LONER Fan Tips	Part No.	Graphic <i>(not to scale)</i>	Gap	Width W	Length B
	LT426		.02" (0.5 mm)	.30" (7.6 mm)	.17" (4.3 mm)
	LT434		.02" (0.5 mm)	.46" (11.7 mm)	.23" (5.8 mm)
	LT435		.02" (0.5 mm)	.59" (15.0 mm)	.35" (8.9 mm)
	LT436		.02" (0.5 mm)	.65" (16.5 mm)	.43" (10.9 mm)



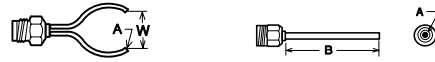
LONER Dual Flow Tips	Part No.	Graphic <i>(not to scale)</i>	Hole Dia. A	Width W	Length B
	LT526		.03" (0.8 mm)	.12" (3.0 mm)	.30" (7.6 mm)
	LT534		.05" (1.3 mm)	.20" (5.1 mm)	.46" (11.7 mm)
	LT535		.05" (1.3 mm)	.28" (7.1 mm)	.59" (15.0 mm)
	LT536		.05" (1.3 mm)	.35" (8.9 mm)	.65" (16.5 mm)
	LT537		.05" (1.3 mm)	.44" (11.2 mm)	.80" (20.4 mm)

LONER Curl/Bent Tips	Part No.	Graphic <i>(not to scale)</i>	Hole Dia.	Nozzle Length
	LT510		.02" (0.5 mm)	.65" (16.5 mm)
	LT511		.06" (1.5 mm)	.65" (16.5 mm)
	LT512		.07" (1.8 mm)	.90" (22.9 mm)
	LT513		.10" (2.5 mm)	.90" (22.9 mm)

*For Internal Threaded Heaters and External Threaded Heaters (see page 18)

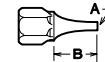
Surface Mount Rework

LONER ATMOSCOPE Universal SMD Hot Air Tips*



LONER Bendable Tips

Part No.	Graphic (not to scale)	Hole Dia. A	Width W	Length B
LT571		.04" (1.0 mm)	N/A	1.10" (27.9 mm)
LT572	 (WT622 Wrench included)	.04" (1.0 mm)	adjusts up to 1.25"(31.8 mm) apart	N/A



LONER Universal Hot Air Tips

Part No.	Graphic (not to scale)	Hole Dia. A	Length B
LU25		.03" (0.8 mm)	.25" (6.4 mm)
LU26		.04" (1.0 mm)	.25" (6.4 mm)
LU27		.07" (1.8 mm)	.25" (6.4 mm)
LU28		.09" (2.3 mm)	.25" (6.4 mm)
LU29		.06" (1.4 mm)	.29" (7.5 mm)
LU30		.06" (1.4 mm)	.70" (17.8 mm)
LU571		.04" (1.0 mm)	1.10" (27.9 mm)
LU572		.04" (1.0 mm)	Gap Width up to 1.25" (31.8 mm)

Surface Mount Rework

When using medium to large hot air tips, always use PD529 Tool Holder (see page 17)

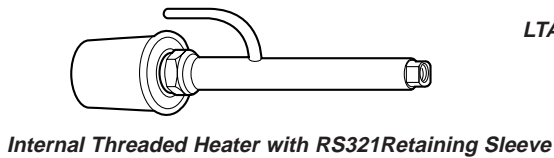
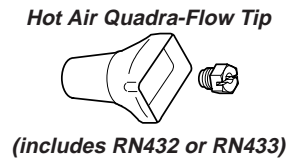
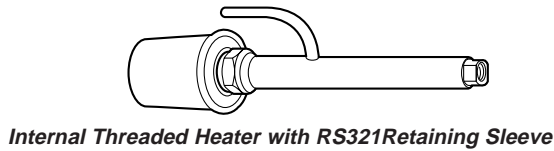
*For Internal Threaded Heaters and External Threaded Heaters (see page 18)

LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips

1. Internal Threaded Heater Hot Air Tools and Stations

Part No.	Description
971HA	LONER ATMOSCOPE SMT Hot Air Station
1032*	LONER ATMOSCOPE SMT Hot Air Station (includes FA069 Hot Air Tool)
1036*	LONER ATMOSCOPE Self-Contained SMT Hot Air Station (includes FA069 Hot Air Tool)
MCS100HA	LONER ATMOSCOPE Master Control Hot Air System
ZD500HA	SOLDAPULLT ATMOSCOPE Self-Contained Hot Tip Desoldering and Hot Air Rework Station (includes FA069 Hot Air Tool)
ZD500HA-3*	SOLDAPULLT, ATMOSCOPE and LONER Self-Contained Desolder, Hot Air and Solder Rework Station (with FA069 Hot Air Tool)
ZD906*	SOLDAPULLT ATMOSCOPE LONER Shop Air Powered Rework Station (with FA069 Hot Air Tool)

*International Series available



LTA02 Adapter

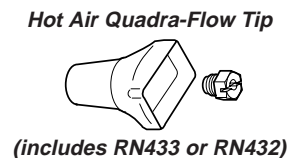
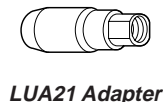
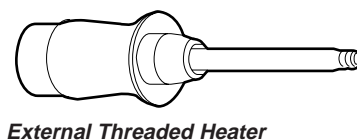
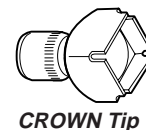
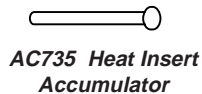
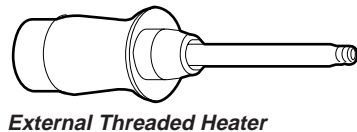


Univaersal Hot Air Tip

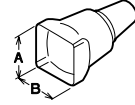
2. External Threaded Heater Hot Air Tools and Stations

Part No.	Description
1036DX*	LONER ATMOSCOPE Self-Contained SMT Deluxe Hot Air Station
1051*	LONER ATMOSCOPE SMT Hot Air Station
1052*	LONER ATMOSCOPE SMT Hot Air and Soldering Station
1052HP*	LONER ATMOSCOPE SMT Hot Air and High Performance Soldering Station

*International Series available



LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips*



Surface Mount Rework

LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips

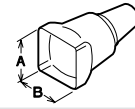
When using medium to large Quadra-Flow Tips, always use PD529 Tool Holder (see page 17)

Part No.	Package	Graphic (not to scale)	Width A	Length B
LT447	SO-8		.16" (4.0 mm)	.20" (5.1 mm)
LT448	SO-14		.21" (5.3 mm)	.35" (8.9 mm)
LT449	SO-16		.26" (6.6 mm)	.41" (10.4 mm)
LT450	SO-16L		.42" (10.7 mm)	.43" (10.9mm)
LT451	SO-18L	Includes RN432	.44" (11.2 mm)	.48" (12.2 mm)
LT452	SO-20L		.38" (9.5 mm)	.52" (13.2 mm)
LT454	SO-28L	Includes RN432	.43" (10.9 mm)	.73" (18.6 mm)
LT455	PLCC-20		.40" (10.2 mm)	.40" (10.2 mm)
LT456	PLCC-28	Includes RN432	.50" (12.7 mm)	.50" (12.7 mm)
LT456-1	Slotted Corners Slot= .125 x .200 (3.8 mm x 5.1 mm)	Includes RN432	.50" (12.7 mm)	.50" (12.7 mm)
LT457	PLCC-32	Includes RN432	.50" (12.7 mm)	.60" (15.2 mm)
LT458	PLCC-44 LCCC-44	Includes RN433	.70" (17.8 mm)	.70" (17.8 mm)
LT458-1	Slotted Corners Slot= .125 x .200 (3.8 mm x 5.1 mm)	Includes RN433	.70" (17.8 mm)	.70" (17.8 mm)
LT459	PLCC-52 QFP-100	Includes RN433	.80" (20.3 mm)	.80" (20.3 mm)
LT459-1	Slotted Corners Slot= .125 x .200 (3.8 mm x 5.1 mm)	Includes RN433	.80" (20.3 mm)	.80" (20.3 mm)

*For Internal Threaded Heaters and External Threaded Heaters (see page 21)

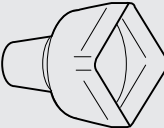
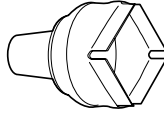
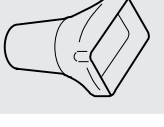
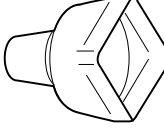
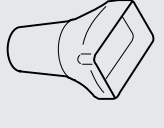
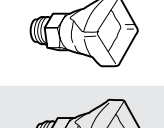
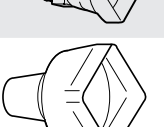
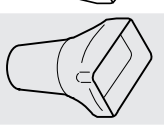
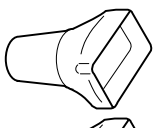
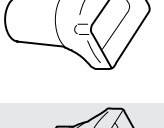
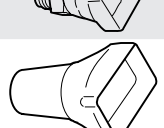
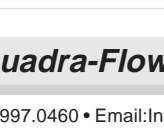



LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips*



LONER ATMOSCOPE SMD Quadra Flow Hot Air Tips

When using medium to large Quadra-Flow Tips, always use PD529 Tool Holder (see page 17)

Part No.	Package	Graphic (not to scale)	Width A	Length B
LT460	PLCC-68	 Includes RN433	1.0" (25.4 mm)	1.0" (25.4 mm)
LT460-1	PLCC-68	 Includes RN433	1.0" (25.4 mm)	1.0" (25.4 mm)
		Slotted Corners Slot= .125" x .200" (3.8 mm x 5.1 mm)		
LT462	PLCC-18	 Includes RN432	.34" (8.6 mm)	.55" (10.4 mm)
LT463	QFP-44	 Includes RN432	.60" (15.2 mm)	.60" (15.2 mm)
LT468	QFP-100 (Rectangular)	 Includes RN433	.66" (16.8 mm)	.90" (22.9 mm)
LT469	N/A		.28" (7.1 mm)	.28" (7.1 mm)
LT470	LCCC-20		.36" (9.1 mm)	.36" (9.1 mm)
LT472	LCCC-28	 Includes RN432	.49" (12.4 mm)	.49" (12.4 mm)
LT477	N/A	 Includes RN433	.75" (19 mm)	1.0" (25.4 mm)
LT478	LCCC-18R		.32" (8.1 mm)	.45" (11.4 mm)
LT480	LCCC-22R	 Includes RN432	.31" (7.9 mm)	.52" (13.2 mm)
LT481	LCCC-28R	 Includes RN432	.38" (9.5 mm)	.58" (14.7 mm)
LT482	LCCC-32R	 Includes RN432	.47" (11.9 mm)	.58" (14.7 mm)
LT483	Ceramic DIP-16		.25" (6.4 mm)	.43" (10.9 mm)
LT484	SOJ-20	Includes RN432	.40" (10.2 mm)	.79" (20.1 mm)

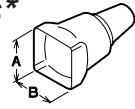
*For Internal Threaded Heaters and External Threaded Heaters (see page 21)

Surface Mount Rework

LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips



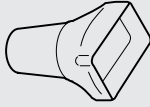
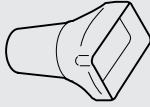
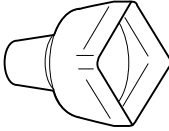
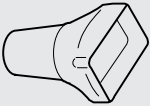

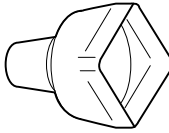
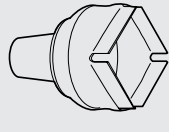
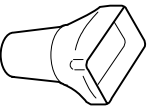

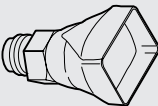
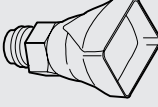
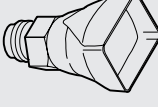
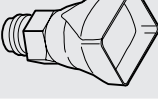
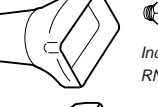

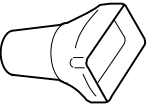
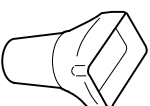

LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips*



Surface Mount Rework

LONER ATMOSCOPE SMD Quadra Flow Hot Air Tips

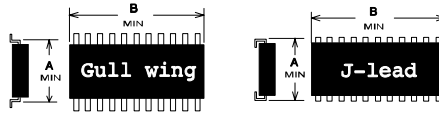
When using medium to large Quadra-Flow Tips, always use PD529 Tool Holder (see page 17)

Part No.	Package	Graphic (not to scale)	Width A	Length B
LT485	N/A		.52" (13.2 mm)	.64" (16.3 mm)
LT486	PLCC-28R	 Includes RN432	.40" (10.2 mm)	.60" (15.2 mm)
LT488	LCCC-84 QFP-144	 Includes RN433	1.17" (29.7 mm)	1.17" (29.7 mm)
LT489	N/A	 Includes RN432	.25" (6.4 mm)	.78" (19.8 mm)
LT491	N/A	 Includes RN433	.71" (18 mm)	.94" (23.0 mm)
LT492	N/A	 Includes RN433	.85" (21.6 mm)	.85" (21.6 mm)
LT492-1	Slotted Corners Slot= .125" x .200" (3.8 mm x 5.1 mm)	 Includes RN433	.85" (21.6 mm)	.85" (21.6 mm)
LT493	SOJ-32	 Includes RN432	.48" (12.2 mm)	.85" (21.6 mm)
LT494	SOJ-40	 Includes RN432	.45" (11.4 mm)	1.05" (26.7 mm)
LT0404	N/A		.18" (4.5 mm)	.18" (4.5 mm)
LT0410	N/A		.14" (3.5 mm)	.41" (10.4 mm)
LT0606	N/A		.24" (5.9 mm)	.24" (5.9 mm)
LT0808	N/A		.32" (8.1 mm)	.32" (8.1 mm)
LT0909	N/A		.34" (8.6 mm)	.34" (8.6 mm)
LT1416	N/A		.57" (14.5 mm)	.64" (16.3 mm)
LT1629	SOP-44	 Includes RN433	.63" (16.0 mm)	1.14" (29.0 mm)
LT1824	QFP-100	 Includes RN433	.70" (17.8 mm)	.94" (23.9 mm)
LT2228	N/A	 Includes RN433	.85" (21.6 mm)	1.1" (27.9 mm)

*For Internal Threaded Heaters and External Threaded Heaters (see page 21)



LONER ATMOSCOPE SMD Quadra-Flow Hot Air Tips Selection by Size



Part No.	Width A	Length B	Package
LT0410	.14" (3.5 mm)	.41" (10.4 mm)	
LT447	.16" (4.0 mm)	.20" (5.1 mm)	SO-8
LT0404	.18" (4.5 mm)	.18" (4.5 mm)	
LT448	.21" (5.3 mm)	.35" (8.9 mm)	SO-14
LT0606	.24" (5.9 mm)	.24" (5.9 mm)	
LT483	.25" (6.4 mm)	.43" (10.9 mm)	CERAMIC DIP-16
LT489	.25" (6.4 mm)	.78" (19.8 mm)	
LT449	.26" (6.6 mm)	.41" (10.4 mm)	SO-16
LT469	.28" (7.1 mm)	.28" (7.1 mm)	
LT480	.31" (7.9 mm)	.52" (13.2 mm)	LCCC-22R
LT0808	.32" (8.1 mm)	.32" (8.1 mm)	
LT478	.32" (8.1 mm)	.45" (11.4 mm)	LCCC-18R
LT0909	.34" (8.6 mm)	.34" (8.6 mm)	
LT462	.34" (8.6 mm)	.55" (14.0 mm)	PLCC-18
LT470	.36" (9.1 mm)	.36" (9.1 mm)	LCCC-20
LT452	.38" (9.5 mm)	.52" (13.2 mm)	SO-20L
LT481	.38" (9.5 mm)	.58" (14.7 mm)	LCCC-28R
LT455	.40" (10.2 mm)	.40" (10.2 mm)	PLCC-20
LT486	.40" (10.2 mm)	.60" (15.2 mm)	PLCC-28R
LT484	.40" (10.2 mm)	.79" (20.1 mm)	SOJ-20
LT450	.42" (10.7 mm)	.43" (10.9 mm)	SO-16L
LT454	.43" (10.9 mm)	.73" (18.6 mm)	SO-28L
LT451	.44" (11.2 mm)	.48" (12.2 mm)	SO-18L
LT494	.45" (11.4 mm)	1.05" (26.7 mm)	SOJ-40
LT482	.47" (11.9 mm)	.58" (14.7 mm)	LCCC-32R
LT493	.48" (12.2 mm)	.85" (21.6 mm)	SOJ-32
LT472	.49" (12.4 mm)	.49" (12.4 mm)	LCCC-28
LT456	.50" (12.7 mm)	.50" (12.7 mm)	PLCC-28
LT456-1	.50" (12.7 mm)	.50" (12.7 mm)	
LT457	.50" (12.7 mm)	.60" (15.2 mm)	PLCC-32
LT485	.52" (13.2 mm)	.64" (16.3 mm)	
LT1416	.57" (14.5 mm)	.64" (16.3 mm)	
LT463	.60" (15.2 mm)	.60" (15.2 mm)	QFP-44
LT1629	.63" (16.0 mm)	1.14" (29.0 mm)	SOP-44
LT468	.66" (16.8 mm)	.90" (22.9 mm)	QFP-100 (RECTANGULAR)
LT458	.70" (17.8 mm)	.70" (17.8 mm)	PLCC-44, LCCC-44
LT458-1	.70" (17.8 mm)	.70" (17.8 mm)	
LT1824	.70" (17.8 mm)	.94" (23.9 mm)	QFP-100
LT491	.71" (18.0 mm)	.94" (23.9 mm)	
LT477	.75" (19.0 mm)	1.00" (25.4 mm)	
LT459	.80" (20.3 mm)	.80" (20.3 mm)	PLCC-52, QFP-100
LT459-1	.80" (20.3 mm)	.80" (20.3 mm)	
LT492	.85" (21.6 mm)	.85" (21.6 mm)	
LT492-1	.85" (21.6 mm)	.85" (21.6 mm)	
LT2228	.85" (21.6 mm)	1.10" (27.9 mm)	
LT460	1.00" (25.4 mm)	1.00" (25.4 mm)	PLCC-68
LT460-1	1.00" (25.4 mm)	1.00" (25.4 mm)	
LT488	1.17" (29.7 mm)	1.17" (29.7 mm)	LCCC-84, QFP-144

• If "A MIN" is less than "A", go to the next part number.

• For Quad Flat Pack "A MIN" is equal to "B MIN".

• "A or B MAX" is dependent on how densely the SMDs are laid out on the board.

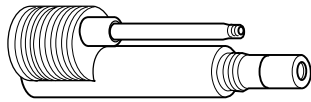
Surface Mount Rework



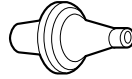
SOLDAVAC Reflow Vacuum Tips*

TSX70 Hollow Heater Stations

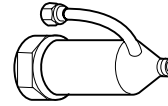
Part No.	Description
TSX70	SOLDAVAC SMT Reflow Vacuum Workstation



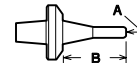
TSX70 Hollow Heater



Reflow Vacuum Tip



RSX72 Retaining Sleeve



TSX70 Multi-Tasking

SOLDAVAC Reflow Vacuum Tips

Part No.	Graphic (not to scale)	Hole Dia. A	Length B
TSX713		.05" (1.3mm)	.55" (14.0mm)
TSX715**		.09" (2.3mm)	.43" (10.9mm)
TSX716		.03" (0.8mm)	.80" (20.3mm)
TSX717		.011" (.28mm)	.63" (16.1mm)
TSX718		.03" (0.8mm)	.80" (20.3mm)

**TSX715 Focus Nozzle for use with TSX716 Tip

*For TSX70 Hollow Heater Stations

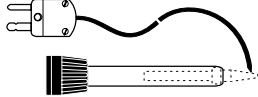
Custom-Built Soldering Tip K-Type Thermocouples (Soldering tips not included)

When ordering these calibration tips please use a separate purchase order. Each set is made up of two line items. The first is the "TC" number. This tells us what type of soldering or desoldering tool you are using, the second is the tip you want to use for calibration purposes.

For example, if you have a 951SX that you want to calibrate with a LT376 tip, this is how you would order:

1. TC372
2. LT376

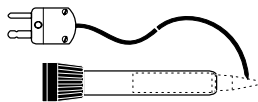
TC372 K-Type Thermocouple Standard Soldering Tip Assembly



Tip Selection:
General Purpose Tips
(see pages 4 & 5)

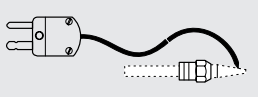
"BC" Style Heavy Duty Threadless Tips
(see page 7)

TC271 K-Type Heavy Duty Soldering Tip Assembly



***Threadless Hollow Heater Tools & Stations**
(see pages 3 & 6)

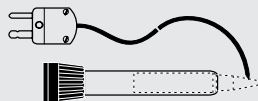
TC273 K-Type Thermocouple Standard Soldering Tip Assembly



Tip Selection:
General Purpose Tips
(see pages 4 & 5)

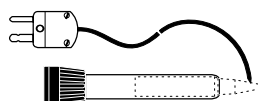
"A" Style Threaded Heavy Duty Threaded Tips,
(see page 9)

TC271 K-Type Heavy Duty Soldering Tip Assembly



***Hollow Threaded Heater Tools & Stations,**
(see pages 3 & 8)

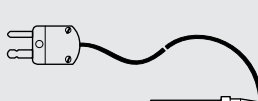
TCS82 K-Type Thermocouple High Performance Soldering Tip Assembly



Tip Selection:
"HP" Tips,
(see pages 10 & 11)

***High Performance Hollow Heater Tools & Stations,**
(see page 10)

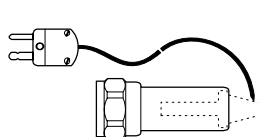
TCS71 K-Type Thermocouple Standard Soldering Tip Assembly for 971 HP Front Loading Hollow Heater



Tip Selection:
General Purpose Tips
(see pages 4 & 5)

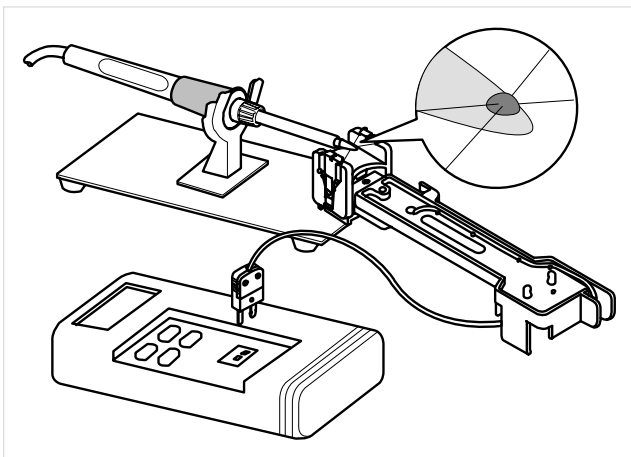
***HP Front Loading Hollow Heater Tools & Stations**
(see page 3)

TC383 K-Type Thermocouple SOLDAPULLT Hot Tip Desoldering Tip Assembly



Tip Selection:
SOLDAPULLT Hot Tip Desoldering Tips,
(see pages 12 & 13)

***HT500 Heater Tools & Stations,**
(see page 12)



Calibration Procedure

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. Apply 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 thermocouple wire. Apply just enough to embed the center.
5. Adjust LO-Temp. calibration pot until the meter reads 400°F.
6. Set temperature control knob to 800°F.
7. Adjust hi-temp. calibration pot until the meter reads 800°F.

Air movement will affect the temperature reading. Work in an area where this is minimized.

Your temperature reading may also vary due to the immediate surroundings, type of equipment and device or technique used.

Accessories for Calibration



LONER Soldering Tip Selection & Maintenance Procedure

Tip Selection



Always use genuine EDSYN tips to be assured of EDSYN Quality performance.

Use the shortest, fattest tips possible for optimum heat transfer and longest tip life.

Use the lowest temperature possible. Using excessively high temperature will oxidize solder joints resulting in bad solder connections and will damage tips.

Keep Tips Tinned



Before placing the tool in the holder, apply solder to cover the tip.

Protect the working surface of the tip from oxidation.

When removing the tool from the holder to begin soldering, wipe the tip on the sponge to remove oxidized solder.

Wiping the tip on the sponge keeps the tip freshly tinned.

Replace RS199 Cleaning Sponge at regular intervals. Sponge replacement minimizes tip contamination.

Tip Use



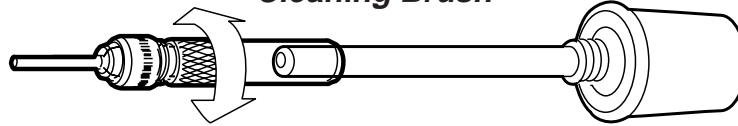
Do not apply excess pressure on the tip to make a connection.

Excessive pressure can break the heating element, and DOES NOT IMPROVE heat transfer.

Do not rub the tip back and forth on the lead or pad. Repeated rubbing action will shorten tip life and damage printed circuit boards.

Heat the joint and feed the solder to the joint. Feeding solder onto the tip creates holes in the soldering tip.

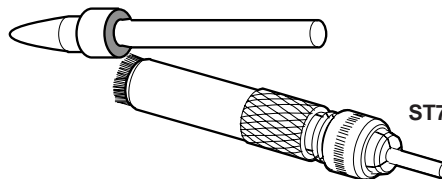
Cleaning Brush



Use an ST707 Cleaning Brush to remove excess oxidation on the front portion of the heating element and the rear part of the shoulder of the tip.

The interface between the heater and tip must be clean to get correct readings for tip-to-ground resistance testing. This cleaning process also helps to prevent the tip from seizing.

Daily Routine



ST707 Maintenance Brush

Check the condition of the tip, heating element, retaining sleeve and temperature of the soldering tool on a daily basis.

Maintain a daily cleaning routine to extend tip life and the quality of your soldering work.