

Integrated design and a unique calibration feature allow the EDSYN MCS100 master control soldering and analytical system to save you time and money when you use, test, evaluate or calibrate soldering processes. Computerized soldering and electronic memory enhance efficiency. Save space on your bench by minimizing the need for more test equipment. While the EDSYN MCS100 may deliver more performance than you are currently using, this Master Control System allows you to set the performance standard your competition will have to catch up to.

Being a leader means maximizing productivity with leading edge, forward thinking technology - time and time again. It is a pattern we have grown accustomed to since EDSYN patented the “Original Deluxe SOLDAPULLT” and launched an industry revolution nearly 40 years ago.



EDSYN Quality



MCS100
LONER Master
Control System,
A computer
Controlled High
Performance
Soldering
System,
Page 8



Soldering

MCS100/MCS100-S

LONER Master Control System, A Computer Controlled High Performance Soldering System

The proprietary software design of our MCS100/MCS100-S enhances the use, testing, evaluation or calibration of soldering processes.



- Easy to read 4 lines x 16 character LCD
- Auto-calibration feature allows precise calibration of temperature
- Helps with ISO9000 requirements
- Displays in Fahrenheit or Celsius
- Stores up to 4 different tips and temperature data
- 24V hand tool with a unique collar system that easily converts to fume exhaust soldering or a SMT hot air rework system
- Lock-out feature prevents any unauthorized data entry
- Direct tip-heater configuration results in quick heat-up and recovery

Specifications for Model MCS100

Power Requirements	120V, 60Hz
Power Rating	30W - 100W
Heater Rating	24V, 45W
Temperature Range	200°F-900°F/93°C-482°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	
Power Supply	4.8 lbs/2.2 kg
Hand Tool	3 oz/85 g

Contents

MCS100	Soldering Station (Includes HP375 High Performance Soldering Tip)
PD528	Tool Pod
Accessory Kit Includes:	
SDS100	Temperature Sensor Docking System (included with MCS100-S)
FX635	Tool Fixture (for MCS100-S)
WL675	Thermocouple Wire Loops (for MCS100-S)
HP375	High Performance Soldering Tip
WP556	WIGAPRY Low Static Computer Aid

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER Master Control System

PHONE: 818.989.2324 • FAX (Sales): 818.997.0895 • FAX (Service): 818.997.0460 • Email: info@edsyn.com • INTERNET: www.edsyn.com



MCS100/MCS100-S

LONER Master Control System Computer Controlled High Performance Soldering System



Use the surface area probe (TP791) to monitor temperature of adjacent components while soldering. The MCS100 can be used to preheat a component to a desired temperature. For heat sensitive SMD's, an audible alarm warns the operator when critical temperature is reached.



The MCS100 is the only soldering tool in the world that has its own internal calibration program. Perfect for ISO9000 compliance. The MCS100 can be used to check performance and calibration of other soldering tools.

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

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951SX/952SX

LONER

Single and Dual Temperature Controlled Soldering Stations

High reliability and cost efficiency make the 951SX and 952SX EDSYN's most popular soldering stations for the assembly line.

951SX



- Accurate linear temperature control
- Easy to maintain and calibrate
- Modular assembly of parts for easy service
- Wide variety of soldering and SMT CROWN tips available
- External calibration helps with ISO9000 compliance
- 952SX dual station offers both standard soldering and heavy duty soldering in one unit

Specifications for Model 951SX/952SX

Power Requirements	120V, 60Hz
Power Rating	15W - 220W
Heater Rating	120V, 95W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	
951SX	2.5 lbs/1.1 kg
952SX	3.1 lbs/1.4 kg



Use LT570BC and RS271 Retaining Sleeve to rework various SMD packages

Contents

951SX/952SX	Soldering Station (951SX includes LT375 952SX includes LT375 and LT338BC tip)
PD528	Tool Pod (952SX includes two Pods)
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Leveling Pad, LN230 Liner)
WP556	WIGAPRY Low Static Computer Aid

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER Soldering Stations

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951DX/952DX



LONER

Deluxe Single and Dual Soldering Stations

Designed for users who require low voltage tools on the production line.

951DX



- 24V hand tool meets low voltage requirements
- Accurate temperature control
- External calibration for ISO9000 compliance
- Modular assembly of parts for easy maintenance
- Wide variety of soldering and SMT CROWN tips available
- Detachable handles for easy replacement

Specifications for Model 951DX/952DX

Power Requirements	120V, 60Hz
Power Rating	18W - 160W
Heater Rating	24V, 53W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.5"H x 10"D 104 mm x 216 mm x 254 mm
Weight	
951DX	4 lbs/1.8 kg
952DX	6 lbs/2.7 kg

952DX



Contents

951DX-2	Power Supply for 951DX
952DX-2	Power Supply for 952DX
SR482	Soldering Hand Tool (951DX includes LT375 Tip with RS372 Retaining Sleeve. 952DX includes LT375 Tip with RS372 Retaining Sleeve and LT338BC Tip with RS271 Retaining Sleeve.
PD528	Tool Pod (952DX includes two Pods)
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Leveling Pad, LN230 Liner)
WP556	WIGAPRY Low Static Computer Aid

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER Deluxe Soldering Stations



951HP/952HP

LONER High Performance Soldering Stations

EDSYN's single and dual high performance soldering stations are designed for high volume assembly lines and multi-layer rework.

951HP



- Direct tip-heater configuration provides fast heat-up and recovery
- Accurate temperature control
- External calibration helps with ISO9000 compliance
- Modular assembly of parts for easy maintenance
- Wide variety of soldering and SMT CROWN tips available
- Use 952HP for a combination of SMT or through-hole tasks

Specifications for Model 951HP/952HP

Power Requirements	120V, 60Hz
Power Rating	17W - 170W
Heater Rating	120V, 45W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	
951HP	2.5 lbs/1.1 kg
952HP	3.1 lbs/1.4 kg

952HP



Contents

951HP/952HP	High Performance Soldering Stations (951HP includes HP375 Tip with HPS72 Retaining Sleeve. 952HP includes HP375 Tip and HP441 Tip each with HPS72 Retaining Sleeve.
PD528	Tool Pod (952HP includes two Pods)
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Leveling Pad, LN230 Liner)
WP556	WIGAPRY Low Static Computer Aid

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER High Performance Soldering Stations

EDSYN® PHONE: 818.989.2324 • FAX (Sales): 818.997.0895 • FAX (Service): 818.997.0460 • Email: info@edsyn.com • INTERNET: www.edsyn.com



952HX

LONER High Performance and Standard Soldering Station

Modular design combines high performance and standard soldering features in a single station for maximum flexibility.

952HX



- One high performance soldering tool for ground planes, heat sinks or SMT rework
- One standard soldering tool for ordinary tasks
- Modular assembly of parts for easy maintenance
- Wide variety of soldering and SMT CROWN tips available
- External calibration helps with ISO9000 compliance

Specifications for Model 952HX

Power Requirements	120V, 60Hz
Power Rating	15W - 220W
Heater Rating	120V, 95W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	3.1 lbs/1.4 kg



Touch up or rework QFP's and PLCC's with a small SMT soldering tip



Rework QFP's and PLCC's using a CROWN tip on the high performance tool

Contents

952HX	Dual High Performance Soldering Station (Standard Soldering Tool includes LT375 Tip and RS372 Retaining Sleeve. High Performance Soldering Tool includes HP441 Tip with HPS72 Retaining Sleeve.)
PD528	Tool Pod (Includes two Pods)
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Leveling Pad and LN230 Liner)
WP556	WIGAPRY Low Static Computer Aid

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER High Performance and Standard Soldering Station



971

LONER

High Performance Temperature Controlled Soldering Station



Our new series of stations offer unsurpassed versatility. Unique modular design allows for easy and economical conversion to fume extraction or hot air.



- Direct tip-heater configuration results in quick heat-up and recovery
- Advanced circuit design provides precise temperature control and external calibration
- Fume extraction and hot air conversion kits (sold separately) offer economy and unbeatable flexibility
- Accepts a wide variety of general purpose tips
- New front loading design makes tip change faster and easier

Specifications for Model 971

Power Requirements	120V, 60Hz
Power Rating	15W - 220W
Heater Rating	120V, 95W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	
Power Supply	2.5 lbs/1.1 kg
Soldering Tool	3 oz/85 g



The secret is in the handle. Loosen the collar and watch your station grow. The unique design of the 971 hand tool makes conversion from soldering to fume extraction or to hot air fast, simple and economical.

Contents

971	Soldering Station (Includes LT375 Soldering Tip)
PD528	Tool Pod
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Pad, LN230 Liner)

Option Kits	(Sold Separately)
OPT823	Fume Extraction Conversion Kit
OPT825	SMT Hot Air Conversion Kit

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER High Performance Temperature Controlled Soldering Station



971FX

LONER

Soldering Station with Fume Extraction System



A cost-effective solution for single user tip fume extraction.



- Requires clean and dry shop air, 60-90 psi
- Three-stage filtration system effectively removes fumes at the source
- Retrofits to standard soldering or hot air station with optional conversion kits
- Accepts a wide variety of general purpose tips

Specifications for Model 971FX

Power Requirements	120V, 60Hz
Power Rating	15W - 220W
Heater Rating	120V, 95W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2 mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	
Power Supply	2.5 lbs/1.1 kg
Soldering Tool	3 oz/85 g



Contents

971FX	Soldering Station with Fume Extraction System (Includes LT375 Soldering Tip)
PD533	Tool Pod
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Pad, LN230 Liner)
VS174	Vacuum System
PAS53	Pod Air Switch
HS307	Low Static Silicone Hose, 1/8" i.d.
CA165	Set of Clips for Power Cord/Hose Attachment (set of 10)

Fumes are drawn away at the source into a contained vacuum chamber. The 971FX collar assembly features an adjustable collection tube that works with most tip lengths and shapes.

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER Soldering Station with Fume Extraction System



972

LONER

High Performance Dual Temperature Controlled Soldering Station



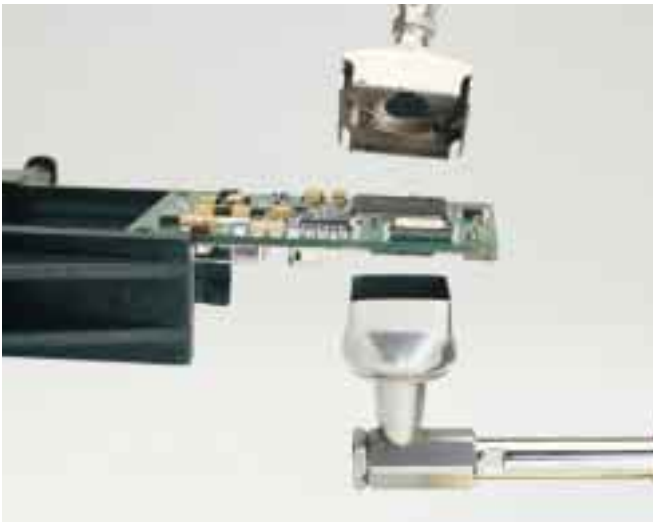
A high performance dual station that allows the user to design a preferred combination of soldering, hot air or fume extraction for ultimate versatility.



- Direct tip-heater configuration results in quick heat-up and recovery
- Advanced circuit design provides precise temperature control and external calibration
- Fume extraction and hot air conversion kits (sold separately) offer economy and unbeatable flexibility
- Dual temperature controls calibrate to soldering and hot air requirements

Specifications for Model 972

Power Requirements	120V, 60Hz
Power Rating	15W - 220W
Heater Rating	120V, 95W
Temperature Range	400°F-800°F/205°C-427°C
Temperature Regulation	±6°F/±3°C
Tip-to-Ground Voltage Leakage/Resistance	< 2mV/< 2 ohms
Overall Dimension	4.1"W x 8.2"H x 10"D 104 mm x 208 mm x 254 mm
Weight	
Power Supply	3.1 lbs/1.4 kg
Soldering Tool	3 oz/85 g



Pre-heat boards and perform standard soldering techniques from the same station

Contents

972	Soldering Station (Includes LT375 Soldering Tip and LT399 Soldering Tip)
PD528	Tool Pod (Includes two Pods)
SH230	Sponge Holder (Includes RS199 Cleaning Sponge, RS243 Pad, LN230 Liner)

Option Kits	(Sold Separately)
OPT823	Fume Extraction Conversion Kit
OPT825	SMT Hot Air Conversion Kit

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER High Performance Dual Temperature Controlled Soldering Station



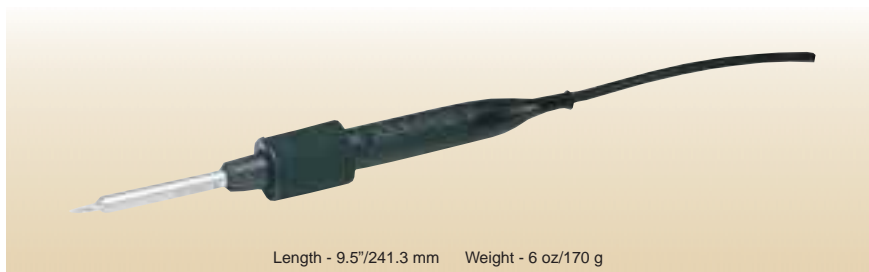


Length - 10.2"/259 mm Weight - 6 oz/170 g

CL1080

LONER Temperature Controlled Soldering Tool

- 120V, 70W
- Allows user to adjust temperature control
- ESD-safe
- Special models with higher maximum temperature available

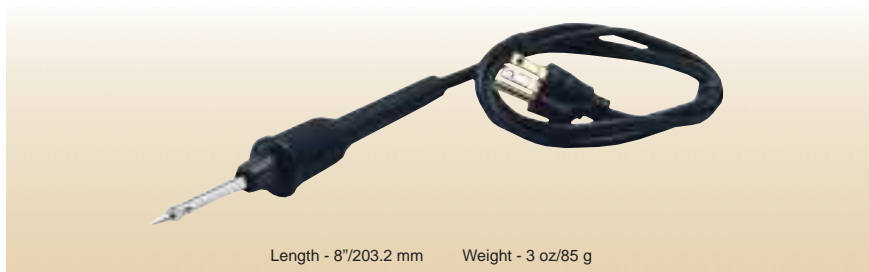


Length - 9.5"/241.3 mm Weight - 6 oz/170 g

CL1180

LONER Temperature Controlled Soldering Tool

- 120V, 50W
- Tamper-resistant temperature control
- ESD-safe
- Special models with higher maximum temperature available



Length - 8"/203.2 mm Weight - 3 oz/85 g

CL1481

LONER Constant Temperature Soldering Tool

- 120V, 30W
- Accepts a wide variety of tips
- ESD-safe



Length - 8"/203.2 mm Weight - 3 oz/85 g

CL1484

LONER Constant Temperature Soldering Tool

- 120V, 20W
- Great for tool kits
- ESD-safe

PS536 Power Supply



Features power switch and sponge holder (pod sold separately)

IP481 IDLE-REST Tool Base



Features sponge holder and solder spool holder

IR089 IDLE-REST Portable Tool Base



Collapsible. Perfect for tool kit. Comes with two solder spoons. (Use only with CL1080 or CL1180)

For more information on replacement parts, specifications & features, see CRIB NOTES on pages 18-19.

LONER Soldering Tools



Crib Notes for Soldering Stations

1. Specifications

Mil-Specs	DOD-STD-2000-1B, WS-6536E, MIL-STD-2000
Low Static ESD-Safe	DOD-STD-1686, DOD-HDBK-263
Control Circuit	Closed Loop Zero Crossing

2. Easy Maintenance

Soldering Tip	<p>Always use genuine EDSYN soldering tips.</p> <p>To prevent tip from seizing, remove tip from heater and wipe or brush off any oxidation build up.</p> <p>Keep tips tinned to make them last longer and perform better.</p> <p>Keep temperature as low as possible.</p>
Cleaning Sponge	Replace RS199 cleaning sponge to minimize tip contamination.

3. Spare Parts for CL1080, CL1180

Part Number	Description
LT375	LONER standard spade tip
RC349	Retaining collar
RS271	Retaining sleeve for heavy duty tips
RS372	Retaining sleeve
SR028	Power cord, 3-prong, 120 VAC
SR029	Boot for power cord
SR030	Clear handle for CL1080
SR032	Cord strain relief
SR033	Circuit board for CL1080
SR070	120V, 95W hollow heater assembly
SR075	Circuit board for CL1180
SR081	Vinyl grip sleeve for retaining collar
SR462	Handle for CL1180

4. Spare Parts for 971

Part Number	Description
LTC71	Tip collet
LT375	LONER standard spade tip
OPT823	Fume extraction conversion kit
OPT825	Hot air conversion kit
RCS71	Retaining collar and sleeve
SR240	O-ring for handle, .50"i.d.
SR574	Heater assembly
SR579	Handle

5. Spare Parts for Hand Tools: 951SX and 952SX

Part Number	Description
LT375	LONER standard spade tip
RS271	Retaining sleeve for heavy duty tips
RS372	Retaining sleeve
SR057	Handle
SR058	Cord strain relief
SR060	Heater element assembly kit
SR062	O-ring
SR063	Vinyl sleeve
SR064	Collar
SR280	Tool cord assembly
SR298	Soldering tool, complete assembly

6. Spare Parts for Power Supply: 951SX, 952SX and 971

Part Number	Description
15002W95	Circuit board, 120V
LN230	Liner for SH230
PD528	Tool pod
RS199	Cleaning sponge
RS243	Leveling pad for SH230
SC581	Solder collector for tool pod
SH230	Cleaning sponge holder assembly
SH230-1	Sponge tray holder
SR019	Dovetail mount
SR026	Power cord only
SR042	Thermal housing for tool pod
SR043	Front housing for tool pod
SR054	Bottom weight
SR065	Power switch, illuminated
SR226	Strain relief for tool cord
SR241	Strain relief for power cord
SR243	5K potentiometer assembly
SR249	Fuse, 250V, 1.6 A (5 mm x 20 mm)
SR251	Rubber feet (set of 4)
SR302	Control panel label for 951SX

7. Spare Parts for CL1481, CL1484

Part Number	Description
HC273	Threaded retaining collar for CL1481
LT431	LONER mid-length spade tip
RS372	Retaining sleeve for CL1484
SR057	Handle
SR064	Collar for handle
SR281	Hollow heater assembly for CL1481
SR337	Threaded hollow heater assembly for CL1484

8. Additional Features

- Easy maintenance and replacement
- Modular design for easy service
- UL listed
- 18 month warranty (90 day warranty for CL1481 and CL1484)
- Made in USA



Crib Notes for Soldering Stations



EDSYN soldering stations accept a wide variety of standard LONER tips. See FORM.800 for more tip information.

9. General Purpose Soldering Tips

Part Number	width	head length
LT392 Extra-long needle point	.01" (0.3 mm)	1.13" (28.8 mm)
LT602-1 Short needle point	.02" (0.5 mm)	.44" (11.2 mm)
LT382 Long cone	.02" (0.5 mm)	.62" (15.7 mm)
LT603 Mid-length needle point	.02" (0.5 mm)	.69" (17.5 mm)
LT374 Standard probe	.03" (0.8 mm)	.48" (12.2 mm)
LT446 SMD probe	.03" (0.8 mm)	.48" (12.2 mm)
LT439 Thin SMD probe	.03" (0.8 mm)	.50" (12.7 mm)
LT444 SMD mid-length fine spade	.04" (1.0 mm)	.78" (19.8 mm)
LT375 Standard spade	.06" (1.5 mm)	.48" (12.2 mm)
LT431 Mid-length spade	.07" (1.8 mm)	.74" (18.9 mm)
LT376 Short stubby spade	.12" (3.0 mm)	.48" (12.2 mm)
LT445 SMD angle face	.03" (0.8 mm)	.48" (12.2 mm)
LT399 Large angle face	.16" (4.0 mm)	.59" (15.0 mm)

10. Heavy Duty Soldering Tips

USE WITH RS271 RETAINING SLEEVE



LT337BC Terminal spade	.10" (2.5 mm)	.74" (18.9 mm)
LT340BC Medium angle face	.12" (3.0 mm)	.77" (19.5 mm)
LT570BC SMD knife	.17" (4.3 mm)	.68" (17.3 mm)
HS106BC Wide spade	.18" (4.5 mm)	.45" (11.4 mm)
LT441BC Long wide spade	.21" (5.3 mm)	.94" (23.9 mm)

11. High Performance Soldering Tips

FOR 951HP, 952HP, 952HX ONLY



Part Number	width	head length
HP371 Fine spade	.03" (0.8 mm)	.57" (14.5 mm)
HP444 Mid-length fine spade	.04" (1.0 mm)	.83" (21.1 mm)
HP375 Standard spade	.06" (1.5 mm)	.57" (14.5 mm)
HP376 Wide spade	.12" (3.0 mm)	.57" (14.5 mm)
HP441 Long wide spade	.20" (5.1 mm)	.55" (14.0 mm)
HP429-1 Angled mid-length probe	.02" (0.5 mm)	.76" (19.3 mm)
HP439-1 SMD angle thin probe	.03" (0.8 mm)	.51" (13.0 mm)
HP374 SMD probe	.05" (1.2 mm)	.57" (14.5 mm)
HP399 Large angle face	.21" (5.3 mm)	.39" (9.9 mm)

12. CROWN Tips

FOR 951HP, 952HP, 952HX: USE WITH LUA35H ACCUMULATOR, HPS72 RETAINING SLEEVE AND HPA02 ADAPTER.

FOR OTHER EDSYN SOLDERING TOOLS: USE WITH AC735 ACCUMULATOR, CTS71 RETAINING SLEEVE AND CTA02 ADAPTER.

CROWN Fork	Part No.	width x gap	SMD Pack
	CT12	.07" x .10" (1.8mm x 2.5mm)	SOT-23
	CT25	.10" x .21" (2.5mm x 5.3mm)	SOT-89
	CT31	.14" x .07" (3.6mm x 1.8mm)	1206, 1210
	CT504	.20" x .18" (5.1mm x 4.5mm)	SOIC-8
	CT510	.20" x .41" (5.1mm x 10.4mm)	SOIC-14,16
	CT919	.34" x .74" (8.6mm x 18.9mm)	SOJ-28
	side x side		
	CT1010	.40" x .40" (10.2mm x 10.2mm)	PLCC-20
	CT1818	.70" x .70" (17.8mm x 17.8mm)	PLCC-44
	CT2626	1.0" x 1.0" (25.4mm x 25.4mm)	PLCC-68
	width		
	CH12	.47" (11.9mm)	n/a
	CH17	.65" (16.5mm)	n/a
	CH43	1.69" (43mm)	n/a