

SOLDERING



60/40 ROSIN CORE ELECTRONIC SOLDER 1 LB ROLLS 60% Tin, 40% Lead "44" Rosin (General Purpose)		
AWG	INCH	KESTER PART #
13	0.093	24-6040-0066
16	0.062	24-6040-0061
18	0.05	24-6040-0053
21	0.031	24-6040-0027
23	0.025	24-6040-0018

Flux residue removal--Use #63-0000-5240 KESTER

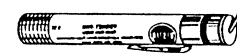
63/37 ROSIN CORE ELECTRONIC SOLDER 1 LB ROLLS 63% Tin, 37% Lead			
AWG	INCHES	KESTER PART #	FEATURES
21	0.031	24-6337-0027	"44" gen. purpose flux
21	0.031	24-6337-6403	"331" water soluble flux
21	0.031	24-6337-8800	"245" no-clean flux
21	0.031	24-6337-9713	"285" low residue flux
25	0.02	24-6337-0010	"44" gen. purpose flux

NOTE: The 63/37 in recent years has been replacing the old 60/40 for many electronic applications due to a sharper melt point and better wetting characteristics.

60/40 ROSIN CORE KESTER SOLDER 60/40

BAR SOLDER--1 LB. (used for electronic dip tinning & wave soldering)	
ALLOY	KESTER PART #
60/40	04-6040-0000
63/37	04-6337-0000

SILVER SOLDER			
AWG	INCHES	WEIGHT	PART #
20	0.036	1 LB.	SN62-20 MUL 62% tin, 36% lead, 2% silver
22	0.028	1 LB	SN62-22 MUL 62% tin, 36% lead, 2% silver
19	0.04	1 OZ	JESLT JE 4% silver, 96% tin



POCKET PAK SOLDER 60% Tin, 40% Lead			
AWG	INCHES	WEIGHT	PART #
18	0.05	1.3 OZ.	83-3000-0000
21	0.031	1/2 OZ.	83-4000-0000

FLUX			
TYPE	AMOUNT	PART #	NOTES
PASTE	2 oz.	SP44 KES	Paste version of "44" flux—most popular, most active, non-corrosive flux.
PEN	1/3 oz.	83-1000-0186	186 "RMA" flux—Mildly activated rosin flux can be left on after soldering.
LIQUID	2 oz.	10-4202 GC	Non-corrosive; safe on delicate equip.
LIQUID	1 gal.	63-0000-1587	Good for wave soldering applications.



**SAVE A TRIP,
LET ACK
SHIP!**

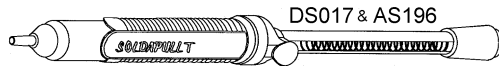
SOLDERING



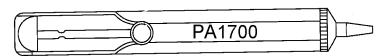
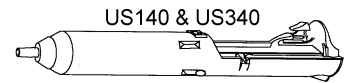
SOLDER WICK		
•Rosin Flux Type		•Mil-Spec
•5' Rolls*		
WIDTH	COLOR CODE	PART #
0.03	WHITE	1801-5F
0.06	YELLOW	1802-5F
0.08	GREEN	1803-5F
0.11	BLUE	1804-5F
0.145	BROWN	1805-5F
0.21	RED	1806-5F

*Also available in 25, 100 & 500 foot rolls.

LIQUID FLUX REMOVERS			
TYPE	SIZE	PART #	NOTES
PEN	1/3 oz.	83-1000-5235	#5235 medium strength, economical.
SPRAY	14 oz.	11017 RAWN	Defluxer, no residue, plastics safe.
LIQUID	1 gal.	63-0000-0020	AP-20—Strong, general use, fast & effective on rosin residues.
LIQUID	1 gal.	63-0000-5235	Same as #5235 above.
LIQUID	1 gal.	63-0000-5240	#5240—mild strength.



SOLDER SUCKERS			
NOTES	PART #	EXTRA TIPS	REBUILD KIT
SHORT, PLASTIC	US140 EDS	SRT12 EDS	ODS31 EDS
SHORT, LOW STATIC, PLASTIC	US340 EDS	LS197 EDS	ODS31 EDS
STANDARD TIP, METAL BODY	PA1700 PAL	PA2712 PAL	PA2704 PAL
MINIATURE TIP, METAL BODY	PA1701 PAL	PA2714 PAL	PA2705 PAL
STANDARD TIP, LOW STATIC	PA1704 PAL	PA2716PAL	PA2704 PAL
HAND PUMP W/HEATED TIP	S2157 PHI	S2158R PHI	-
LONG STROKE, LOW STATIC	AS196 EDS	LS197 EDS	ODS31 EDS
LONG STROKE, BLUE PLASTIC	DS017EDS	SRT12 EDS	ODS31 EDS



SDC100 WELLER ACCESSORIES	
TIP SIZE	TIP PART #
.9 mm	SCD112 WEL
1.2 mm	SCD113 WEL
1.8 mm	SCD114 WEL
COLLECTOR TUBE, DISPOSABLE: SCD201 WEL	

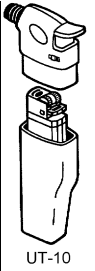
Self contained de-soldering gun with vacuum pump. Comes complete with a triplet clean out tool and two extra disposable collector tubes. Lightweight. Portable. Disposable solder collector tube. Low noise. Heats up over 800° F. **SCD110 WELLER**



SOLDERING

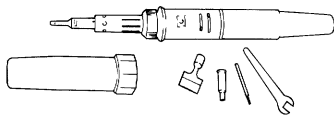


BUTANE SOLDERING IRONS				
•adj. temperature •great on heat shrink				
MODEL #	DESCRIPTION	SOLDERING TEMPERATURE RANGE	TANK SIZE	APPOX. OPERATING TIME
UT-10 MAS	Pistol grip torch fueled by disposable "Scriptol" cigarette lighter. Piezo ignition.		small	20 min.
P-1-B POR	Pencil sized Weller/Portasol iron with flint starter & protective cover. Equiv to 60 watts.	390-850° F	small	20 min.
UT-50 MAS	"Mini" 6.5" Pencil sized iron with protective cover. Equiv. to 80 watts.	392-842° F	6.3 ml	20 min.
UT-100 MAS	"Standard" 10.3" iron with metal carrying case.	392-932° F	28 ml	2 hrs.
UT-100SI MAS	Same as above, but with piezo electric starter, no case and no torch mode.	482-932° F	28 ml	3 hrs..
UT-200 MAS	"Jumbo" 11.9" iron with metal carrying case.	572-986° F	63 ml	2.6 hrs.
UT-200SI	Same as above, but with piezo electric starter, no case and no torch mode.	482-986° F	63 ml	4.5 hrs.

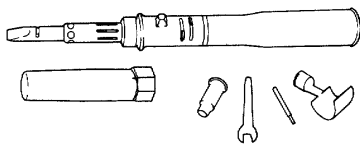


UT-50

MASTER[®] APPLIANCE



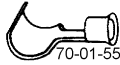
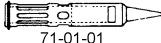
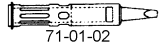
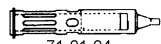
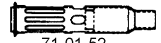
Model UT-100Si



Model UT-200Si



UT-50

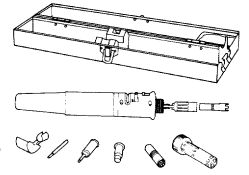
UT-50 MASTER ACCESSORIES		
PRODUCT	PART #	DESCRIPTION
	70-01-55 MAS	Heat shrink attachment
	71-01-01 MAS	1 mm dia. tapered needle soldering tip.
	71-01-02 MAS	2.4 mm dia. chisel soldering tip (standard)
	71-01-04 MAS	3 mm dia. spade soldering tip
	71-01-52 MAS	4.71 mm I.D. heat tip

BUTANE! Ultra-refined by purest method possible. Special non-clogging formula to permit extended use. Single piece universal tip. **51773 MASTER** (5-1/8 oz.)



P/N 51773

SOLDERING



ULTRATORCH HEAT TOOL STANDARD UT-100 3 In 1 Heat Tool

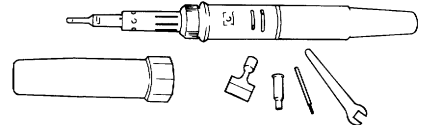
Model UT-100

DESCRIPTION:

The cordless Standard Ultratorch is a combination portable soldering iron, butane torch, and flameless heat tool. Comes standard with a soldering/heat ejector, a torch ejector, a heat shrink attachment, a chisel soldering tip, a heat tip, a soldering sponge, and an accessory spanner wrench, all packaged in a form-fitted metal case.

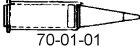
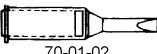
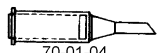


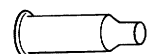

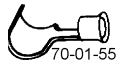
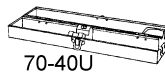
FEATURES AND BENEFITS:

Runson butane gas (as supplied by a common gas lighter refill) by means of a catalyzer combustion system. The catalyzer generates infrared and ultra infrared heat. Use it to solder and as a heat shrink tool to terminate heatshrinkable products. It's the perfect choice for field service and maintenance and for areas where accessibility may be limited. Operates 2 hours at #3 setting on one filling.

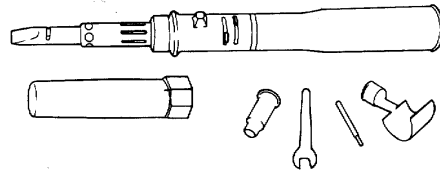


Model UT-100Si

UT-100SI ULTRATORCH—Same as UT-100, except self-igniting using a piezoelectric push-button ignition system, and **not available in torch mode**. Metal storage box sold separately (70-40U MAS).

UT-100 & UT-100SI ACCESSORIES		
PRODUCT	PART #	DESCRIPTION
 70-01-01	70-01-01 MAS	1 mm dia. tapered soldering tip.
 70-01-02	70-01-02 MAS	3.3 mm dia. chisel soldering tip.
 70-01-04	70-01-04 MAS	3 mm dia. spade soldering tip.
 70-01-05	70-01-05 MAS	.5mm dia. tapered needle soldering tip.
 70-01-08	70-01-08 MAS	2 mm dia. 35° spade soldering tip.
 70-01-52	70-01-52 MAS	4.9mm I.D. heat tip.
 70-01-54	70-01-54 MAS	Large heat shrink attachment.
 70-01-55	70-01-55 MAS	Small heat shrink attachment.
 70-40U	70-40U MAS	Metal storage box.

SELF-IGNITING ULTRATORCH HEAT TOOL JUMBO UT-200SI



DESCRIPTION:

Model UT-200Si

Cordless, combination soldering iron and flameless heat tool, with more BTU's to do the job. Comes standard with protective cap, soldering/heat tip, spanner wrench, open end wrench and heat shrink attachment. Not available in torch mode.

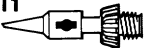


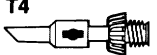
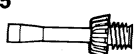
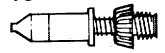
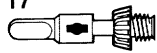
FEATURES AND BENEFITS:

The piezoelectric "push button" ignition system eliminates the need for matches or lighters. It's streamlined design allows easy accessibility in restricted work areas. Variable temperature control enables operator to adjust appropriate heat for different applications. It's perfect for field service and for areas where accessibility may be limited. Terminates heat shrinkable insulated preforms and environmental slices. Operates 4.5 hours at #3 setting.

MASTER[®] APPLIANCE

SOLDERING



P-1-B PORTASOL/WELLER TIPS		
PICTURE	PART #	DESCRIPTION
	T-1 POR	1 mm tip
	T-2 POR	2.4 mm tip
	T-3 POR	3.2 mm tip
	T-4 POR	4.8 mm tip
	T-5 POR	Blow Torch--Heavy soldering & light brazing.
	T-6 POR	Hot Blower--Concentrated heat without a flame for head shrinking & desoldering.
	T-7 POR	Hot Knife--Cut & cauterize synthetic materials.



P-1-B

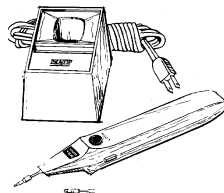
- Adjustable temperature control (equivalent to 10-60 watts) melts solder in less than 40 seconds
- Up to 90 minute continuous use fuel capacity (refill with butane lighter gas)
- Safety cutoff switch when cap is replaced
- Patented catalytic converter that provides powerful safe flameless combustion
- Fast, flint sparked ignition in cap.

Order P-1-B Portasol

FACTORY PHONES














- HAKKO 805-294-0090
- KESTER 800-2-KESTER
- MASTER 414-633-7791
- UNGAR 919-362-7541
- WAHL 815-625-6525
- WELLER SAME AS UNGAR'S

WAHL®



ISO TIP®
cordless soldering iron

WAHL TIPS

7535	
7545	
7541	
7546	
7556	
7566	
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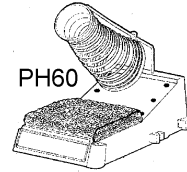
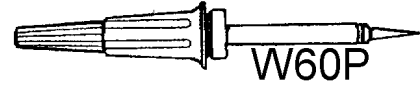
BATTERY POWERED IRONS (ni-cad)

# SOLDER JOINTS PER CHARGE	HOURS TO RECHARGE	REPLACEMENT BATTERY PACK	IRON PART #
125	1	7833 WAH	7800 WAH
125	3-4½	7733 WAH	7700 WAH
PC DRILL ATTACHMENT--Fits in place of tip and uses #56 bit to clean excess solder from the holes of PCB's. Order #6500 WAHL (extra bit is #6550 WAHL)			
12 VDC AUTO CHARGER PLUG--Plugs into cigarette lighter socket to recharge #7500 & #7700 irons at the 12-16 hour rate. Not for #7800 iron. Order #7585 WAHL			
PROTECTIVE CARRIER/STORAGE TUBE--Holds cordless iron and 12v auto charger plug. Order #7595 WAHL			

SOLDERING



Weller

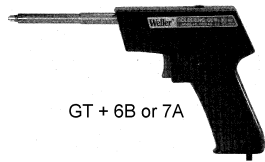


WELLER ELECTRIC SOLDERING IRONS			
WATTS	PART #	FEATURES	STAND PART #
12	WM120 WEL	Pencil thin soldering iron for miniature components that are heat and voltage sensitive.	PHM120 WEL
25	WP25 WEL	Industrial grade, 3 cond. power cord, wide tip variety.	PH60 WEL
30	WP30 WEL	Same as above.	PH60 WEL
35	WP35 WEL	Same above.	PH60 WEL
60	W60P WEL	Temperature controlled.	PH60 WEL
60	W60P-3 WEL	Same as W60P, but with 3 cond. power cord.	PH60 WEL
100	W100PG WEL	Temperature controlled.	PH100 WEL
120	SP120 WEL	Hobby grade iron w/1/2" tip.	N/A
175	SP175 WEL	Hobby grade iron w/5/8" tip; good for sheet-metal work.	N/A

PARTS--Ack stocks tips, heaters, barrel nuts & switches for all the above irons. Call us!



Weller

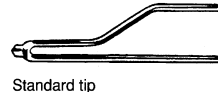
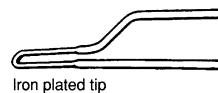
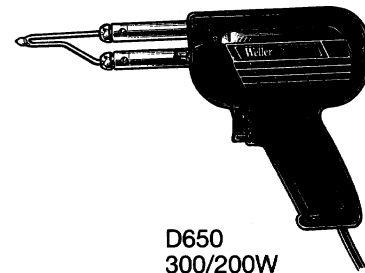


TIPS FOR WELLER IRONS						
TIP WIDTH	WM120	WP25, 30, 35	W60P	W100PG	SP120	SP175
1/64 .4mm conical	MP131	-	-	-	-	-
1/32 .8mm conical, bent	MP132	-	-	-	-	-
1/32 .8mm single flat	MP133	ST5	-	-	-	-
1/32 .8mm screwdriver	-	ST6	-	-	-	-
1/32 .8mm conical	-	ST7 & ST8 (thin neck)	-	-	-	-
3/64 1.19mm conical, bent	MP134	-	-	-	-	-
3/64 1.19mm single flat	MP135	-	-	-	-	-
1/16 1.6mm screwdriver	MP136	ST1	CT5A6,7,8*	-	-	-
5/64 2mm screwdriver	MP137	-	-	-	-	-
3/32 2.4mm screwdriver	-	ST2	CT5B6,7,8	-	-	-
1/8 3.2mm chisel	MP138	-	-	-	-	-
1/8 3.2mm screwdriver	-	ST3	CT5C6,7,8	CT6C6,7	-	-
3/16 4.8mm screwdriver	-	ST4	CT5D6,7,8	CT6D6,7	-	-
1/4" screwdriver	-	-	CT5E6,7,8*	CT6E6,7	-	-
3/8" screwdriver	-	-	-	CT6F6,7,8	-	-
1/2" chisel	-	-	-	-	MTG3	-
5/8 16mm chisel	-	-	-	-	-	MTG40

*Available in 600°, 700°, or 800° (6, 7, 8)

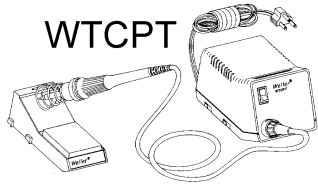
WELLER SOLDERING GUNS			
MODEL #	WATTS	NOTES	EXTRA TIPS
GT + 6B or 7A WELLER	150	Solid state soldering gun, temperature controlled, 6 second heat-up, slim long-reach barrel with tip tested for 30,000 connections! Order in two pieces: "GT" refers to the handle only with trigger & cord ("GT3" comes with a 3 wire cord). Part #6B is a 600° power head w/.125" cone tip. Part #7B is a 700° power head w/.187" chisel tip.	#6B WEL — 600° power head w/.125" cone tip. #7B WEL — 700° power head w/.187" chisel tip.
8200 WEL	100/140	All purpose gun with fingertip trigger selection of low (100W) or high (140W) output, 6 second heat-up, light to illuminate work. Xtra steel collar & screws: #C8200 WEL	6110 WEL (cutting tip w/hex nut) 6120 WEL (smoothing tip w/hex nut) 7135 WEL (standard tip only) 7135N WEL (standard tip w/hex nut) 8125 (iron plated tip only)
D550 WEL	200/260	Heavy duty gun, 2 position trigger selection of dual watts, heats up in 6 seconds, light illuminates work. Xtra trigger switch: 7324 WEL Xtra lamp: 222 ML	7250 WEL (standard tip only) 7250AN (standard tip w/acorn nut) 7250N (standard tip w/hex nut)
D650 WEL	200/300	Highest out gun w/2 position trigger selection.	SAME AS D550

PARTS--Ack stocks lamps, triggers, tip nuts and housings for the above guns. Give us a call!

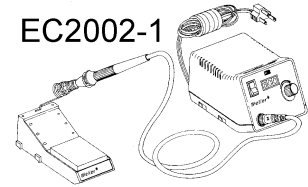


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SOLDERING



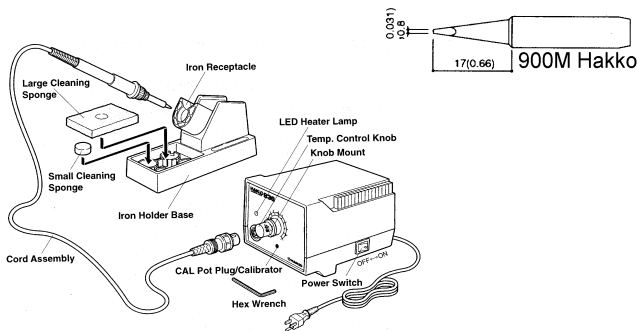
Weller®



SOLDERING STATIONS

MODEL #	IRON	TEMP. RANGE	FEATURES
EC2002M1 WELLER	40W (EC1201A iron)	300-850 °F	Industrial grade, 3 digit LED readout of tip temperature & temperature settings. Stable to ±1° F. EDS safe. Mil-Spec.
WES50 WELLER	50W PES51 iron	300-850° F	Industrial grade, analog temperature dial, grounded tip, zero power switching, anti-static, temperature lock setting, auto power shut-off, ±10% stability (MIL-STD-2000). Transformer isolated.
WESD51 WELLER	50W PES51 iron	300-850° F	Industrial grade, digital temperature display, slim soldering pencil, wireless temperature lockout, good thermal recovery,
WTCPT WELLER	60W	600-800° F	Industrial grade, temperature controlled in 3 ranges: 600°, 700°, 800° F. Change tip to change temperature. 20 tip styles from which to choose. A very popular station at Ack.
936-9 HAKKO	65W	400-900° F	Mil-Spec, fast recovery ceramic heater, 30 second warm-up, thin iron, accurate to +/- 9° F. One of Ack's best selling stations. Very reliable.
WS80 WELLER	80W (WSP80 iron)	300-850° F	Industrial grade, analog temperature dial, calibrated to ± 2% of final value, on/off switch. All Weller accessories up to 80W may be connected. Temperature locking via key operated switch. The EC1201A 40W & EC1302A 20W irons may also be used with the base unit. Uses "LT" series tips.

PARTS: ACK stocks parts for the above stations. Give us a call.



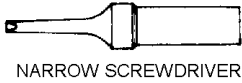
936-9 Hakko Tips

TIP WIDTH	TIP PART #
1.6 mm screwdriver	P900M-T-1.6D
2.4 mm screwdriver	P900M-T-2.4D
3.2 mm screwdriver	P900M-T-3.2D
standard pencil point	P900M-T-B
needle point	P900M-T-1
extra long needle point	P900M-T-LB



PHONE IN YOUR ORDER — ACK WILL SHIP IT THE SAME DAY AND YOU'LL USUALLY HAVE IT THE NEXT!

SOLDERING

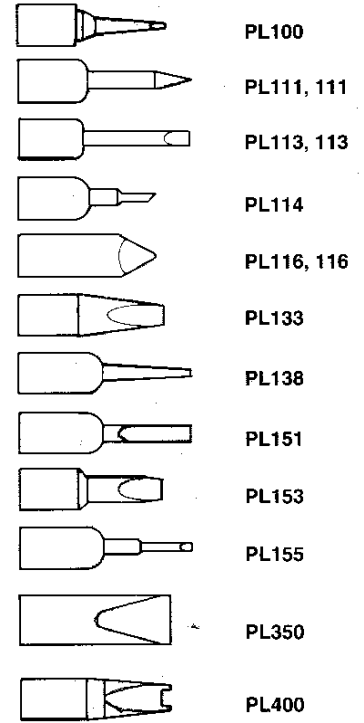


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TIPS FOR WELLER STATIONS				
TIP WIDTH	921ZX	EC1002-1 EC2002M1 WCC100 WES50	EC1002-2	WTCPT
1/100 .25mm conical	9010 UNG	-	-	-
1/64 .4mm single flat	-	ETU	-	-
1/64 .4mm conical	-	ETS (long)	EPH101	PTS6,7,8*
2/100 .50mm spade 2/100 .50mm conical	9014 UNG 9050 UNG	-	-	-
1/32 .8mm conical	-	ETP	EPH102 (bent)	PTP6,7,8*
1/32 .8mm conical flat	-	-	EPH103	PTF6,7,8
1/32 .8mm screwdriver	9017 UNG	ETH	-	PTH6,7,8
1/32 .8mm long screwdriver	-	ETJ	-	-
1/32 .8mm long conical	-	ETO	EPH109	PTO6,7,8*
3/64 1.2mm long screwdriver	-	ETK	EPH105 (single flat)	PTK6,7,8*
3/64 1.2mm bent conical	-	-	EPH104	-
5/100 1.27mm screwdriver	9012 UNG	-	-	-
1/16 1.6mm narrow screwdriver	-	ETR	-	PTR6,7,8*
1/16 1.6mm screwdriver	-	ETA	EPH106	PTA6,7,8*
1/16 1.6mm single flat	-	ETAA	-	PTAA6,7,8*
5/64 2mm long screwdriver	-	ETL	EPH107	PTL6,7,8*
3/32 2.4mm screwdriver	-	ETB	-	PTB6,7,8*
3/32 2.4mm single flat	-	ETBB	-	PTBB6,7,8
1/8 3mm screwdriver	-	ETC	-	PTC6,7,8*
1/8 3mm long screwdriver	-	ETM	-	PTM6,7,8*
1/8 3mm single flat	-	ETCC	-	PTCC6,7,8
3/16 4.7mm screwdriver	-	ETD	-	PTD6,7,8
3/16 4.7mm single flat	-	ETDD	-	PTDD6,7,8
15/64 6mm screwdriver	-	-	-	PTE6,7,8*

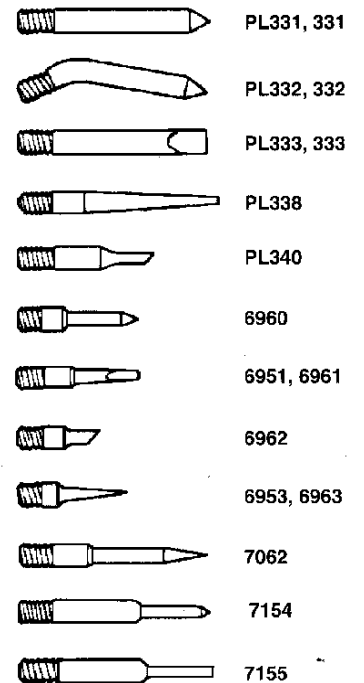
*These tips available in 600, 700 & 800° F (6,7, 8). Specify which when ordering.

UNGAR 1/4" THREAD-ON TIPS

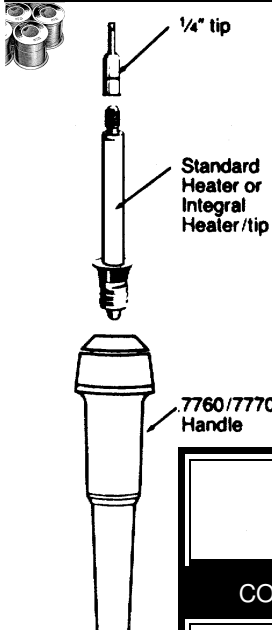


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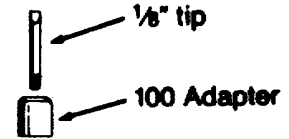
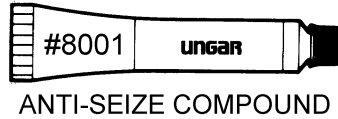
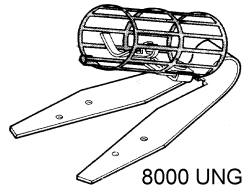
UNGAR 1/8" THREAD-IN TIPS



SOLDERING



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#100 UNGAR ADAPTOR—Allows 1/8" thread-in tip to be used on heating elements designed for a 1/4" thread-on tip.

UNGAR MODULAR IRONS (electric)

COMPONENT	DESCRIPTION	PART #
HANDLE	3-wire grounded handle w/burn resistant cord.	7500 UNG
	2-wire handle, red (7760) or blue (7770)	7760/7770 UNG
HEATER	23w, long chisel tip, 800° F	533-S UNG
	23w, takes 1/8" thread-in tips, 700° F	535-S UNG
	23w, pyramid tip, 900° F	536-S UNG
	23w, takes 1/4" thread-on tips, 700° F	537-S UNG
	23w, shshort chisel tip, 900° F	539-S UNG
	33w, long chisel tip, 900° F	1233-S UNG
	33w, takes 1/8" thread-in tips, 800° F	1235-S UNG
	33w, pyramid tip, 900° F	1236-S UNG
	33w, takes 1/4" thread-on tips, 800° F	1237-S UNG
	33w, short chissel tip, 1000° F	1239-S UNG
	45w, long chisel tip, 1000° F	4033-S UNG
	45w, takes 1/8" thread-in tips, 900° F	4035-S UNG
	45w, pyramid tip, 1100° F	4036-S UNG
	45w, takes 1/4" thread-on tips, 900° F	4037-S UNG
	45w, short chisel tip, 1100° F	4039-S UNG
THREAD-ON TIPS	1/4" thread-on tips are the same as used by the UTC-100 (see chart)	See UTC100
THREAD-IN TIPS	1/8" thread-in tips are listed in a separate chart	See Chart
SPONGE & TRAY	Use for cleaning tips of oxidation	400 UNG
IRON HOLDER	Iron holder attaches easily to any work area for operator safety	8000 UNG
ANTI-SEIZE COMP.	Anti-seize compound reduces thread seizure.	8001 UNG