



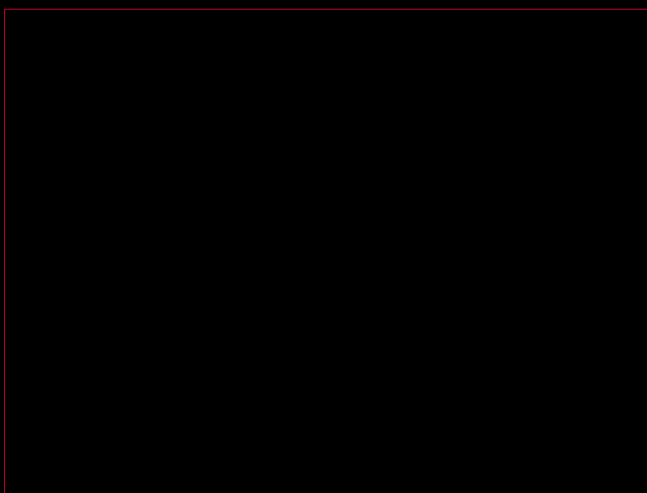
Worldwide Corporate Headquarters

**Master Appliance Corp.**  
2420 18th Street  
Racine, WI 53403-2381  
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**Sales/Customer Service:** 800-558-9413 (US & Canada)  
**Local and International:** 262-633-7791  
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For Master Appliance products contact:



## NORTH AMERICA PRODUCT CATALOG





**Master Appliance Corp.**  
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Racine, WI 53403-2381, U.S.A.

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**Local and International:** 262-633-7791  
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**Email:** Sales@MasterAppliance.com  
**Online:** MasterAppliance.com is the best place to find all of our latest and greatest products, buy a spare part, process a repair or send us a message.

## Master Appliance Corp. Designers and Manufacturers of Heat Tools for Industry

Located in a modern manufacturing facility in Racine, Wisconsin, we introduced our industrial quality heat gun to the worldwide marketplace in 1958. In 1985, we introduced high-quality butane powered soldering iron/heat tools to the North American marketplace. Today our heat tools are used for drying, heating, welding, shrinking, soldering and for many other applications where heat is the need. With six decades of experience, we don't just make heat tools, we make heat tools BETTER.



### Local Availability, Sales, Parts & Service

Master Heat® tools are sold worldwide through a network of authorized stocking distributors and trained sales representatives to ensure fast personal service. Contact us for the name, address and telephone number of your nearest stocking distributor or sales representative. For all your product needs including accessories, parts, warranty and repair services, please visit MasterAppliance.com.



### Engineering, Design, Research and Development

Master is continually developing innovative new heat tool products with enhanced capabilities, making it easier to work with new materials and processes used throughout industry. Our customers expect high-quality products, and our heat tool specialists meet their needs with industry-leading tools developed with state-of-the-art technology.



### Manufacturing

Master Heat tool products are made with superior quality materials and the finest craftsmanship. With great designs and expert assembly in an efficient manufacturing setting, we're able to provide our customers with maximum product quality, performance and value.

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# Electric Heat Guns

## D-Series Master & Varitemp® Heat Guns

# 01



D Series Master Heat Gun

D Series Varitemp Heat Gun

Master Heat Gun®						
Model No.	Temperature		Voltage	Amps	Watts	Replacement Element
	°F	°C				
HG-201D	400	204	120	5	600	30087
HG-301D	800	426	120	12	1440	30085
HG-501D	1200	649	120	14.5	1740	30083
HG-801D*	1400	760	120	18.5	2220	30082
HG-202D**	400	204	220	3	660	30088
HG-302D**	800	426	220	6	1320	30086
HG-502D**	1200	649	220	9	1980	30084

\* Equipped with NEMA 5-20P Plug, requires 20A outlet  
 \*\* Equipped with 6-15P plug, requires 220V outlet

**Optional Momentary Contact Switch for 120V Models:** Unit shuts off when switch is released. To order add "-00-MC" suffix to model number. Example: HG-501D-00-MC

Master Varitemp® Heat Gun						
Model No.	Temperature		Voltage	Amps	Watts	Replacement Element
	°F	°C				
VT-751D	100-1200	38-649	120	14.5	1740	30083
VT-752D**	100-1200	38-649	220	9	1980	30084

\*\* Equipped with 6-15P plug, requires 220V outlet

**Temp Measurements:** All temperature measurements are measured from the inside of the nozzle.

### Professional Quality, Heavy-duty, Multiple Use Heat Guns

- Upgraded long-life universal motor delivers 2X PLUS run life
- High 27 CFM airflow gets tough jobs done faster
- New quick-change plug-in heating element with even airflow over element for maximum heating efficiency
- Optimized design for improved serviceability
- Redesigned ergonomic soft grip handle maximizes user comfort
- Sturdy die cast aluminum housing
- Fixed air intake provides temperature consistency, improving process control
- Hot-Cool-Off Rocker Switch
- Non-slip, reinforced stand offers stable 90-degree adjustability
- New variable temperature dial for VT Models offers lockable temperature capability
- Full selection of replacement part kits for easy serviceability
- Designed and assembled by Master Appliance Corp., Racine, WI. USA

**Specifications**

- Dimensions: 10" L x 5.25" W x 9.5" H
- Nozzle O.D.: 1/2"
- Nozzle Shield O.D.: 1 3/4"
- Cord Length: 6ft, 3-wire grounded
- Average Air Velocity: 3400 FPM at ambient
- Average Air Volume: 27 CFM at ambient
- Tool Weight: 3.7 lbs
- Shipping Weight Tool: 5 lbs
- Shipping Weight Kit: 10 lbs

**NOTE:** Users should independently evaluate the suitability of the product for their application.

# Electric Heat Guns

## D-Series Master & Varitemp® Kits & Accessories



D Series Master Heat Gun Kit  
 Varitemp Heat Gun Kit



**A-160-HG** Shrink attachment for tubing up to 3/4"  
**A-170-HG** Shrink attachment for tubing 3/4" to 2" O.D.  
**35245** Three of our most popular attachments  
**30202\*** Solder preform attachment  
**30100** Rugged, plastic storage and carrying case for HG & VT Heat Guns only  
**51309\*** 3/8" Pinpoint attachment  
**51542** Glass protector attachment  
**51543** 2-1/4" Spreader attachment  
**51544** 7/8" Reducer attachment

Master Heat Gun® Kit						
Model No.	Temperature		Voltage	Amps	Watts	Replacement Element
	°F	°C				
HG-201D-00-K	400	204	120	5	600	30087
HG-301D-00-K	800	426	120	12	1440	30085
HG-501D-00-K	1200	649	120	14.5	1740	30083
HG-202D-00-K**	400	204	220	3	660	30088
HG-302D-00-K**	800	426	220	6	1320	30086
HG-502D-00-K**	1200	649	220	9	1980	30084

\*\* Equipped with 6-15P plug, requires 220V outlet

Master Varitemp® Heat Gun Kit						
Model No.	Temperature		Voltage	Amps	Watts	Replacement Element
	°F	°C				
VT-751D-00-K	100-1200	38-649	120	14.5	1740	30083
VT-752D-00-K**	100-1200	38-649	220	9	1980	30084

\*\* Equipped with 6-15P plug, requires 220V outlet

Optional Accessories	
Part No.	Description
A-160-HG	Shrink attachment for tubing up to 3/4" O.D.
A-170-HG	Shrink attachment for tubing 3/4" to 2" O.D.
35245	Three popular attachments
30202*	Solder preform attachment
30100	Molded storage carrying case
51309*	3/8" pinpoint attachment
51542	Glass protector attachment
51543	2-1/4" spreader attachment
51544	7/8" reducer attachment

\* Not for use with the HG-801D

### Add Versatility to Your HG & VT Model Heat Guns

- Professional quality stainless steel attachments
- Storage/carrying case protects heat gun and provides ample storage space for attachments
- Kits include a Master Heat Gun, A-160-HG shrink attachment, 51543 spreader attachment and 51544 reducer attachment packed in a rugged, plastic storage/carrying case

# Electric Heat Guns

## T-Series Master Heat Guns®



Lightweight, Impact Resistant Thermoplastic Housing

### T-Series Master Heat Gun®

Model No.	Temperature		Voltage	Amps	Watts	Replacement Element
	°F	°C				
HG-201T	400	204	120	5	600	30111
HG-301T	800	426	120	12	1440	30109
HG-501T	1200	649	120	14	1680	30107

**Optional Momentary Contact Switch for 120V Models:** Unit shuts off when switch is released. To order add "-00-MC" suffix to model number. Example: HG-501T-00-MC

### Specifications

- **Dimensions:** 10" L x 5.25" W x 9.5" H
- **Nozzle O.D.:** 1½"
- **Nozzle Shield O.D.:** 1¾"
- **Cord Length:** 6ft, 3-wire grounded
- **Average Air Velocity:** 3400 FPM at ambient
- **Average Air Volume:** 27 CFM at ambient
- **Tool Weight:** 2.8 lbs
- **Shipping Weight Tool:** 4 lbs
- **Shipping Weight Kit:** 9 lbs

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Same Reliable HG Performance, 24% Lighter

- New impact resistant plastic housing is 24% lighter than our die cast D-Series housings
- New quick-change plug-in mica heating element with even airflow over element for maximum heating efficiency
- New lightweight plastic stand with anti-slip base offers stable 90-degree adjustability
- Optimized design for improved serviceability
- Maintenance-free upgraded long-life universal motor
- Redesigned ergonomic soft grip handle maximizes user comfort
- High 27 CFM airflow gets tough jobs done faster
- Fixed air intake provides temperature consistency, improving process control
- Hot-Cool-Off Rocker Switch
- Full selection of replacement part kits for easy serviceability
- Designed and assembled by Master Appliance Corp., Racine, WI. USA

# Electric Heat Guns

## T-Series Master Heat Gun® Kits & Accessories



### Attachments



Model No.	51309 Pinpoint	30202 Solder Preform	51542 Glass Protector	A-160-HG A-170-HG Shrink Tube	51543 Spreader	51544 7/8 Reducer
HG-201T	•	•	•	•	•	•
HG-301T	•	•	•	•	•	•
HG-501T	•	•	•	•	•	•

### T-Series Master Heat Gun® Kit

Model No.	Temperature		Voltage	Amps	Watts	Replacement Element
	°F	°C				
HG-201T-00-K	400	204	120	5	600	30111
HG-301T-00-K	800	426	120	12	1440	30109
HG-501T-00-K	1200	649	120	14	1680	30107

### Add Versatility to Your T-Series Heat Guns

- Heat Gun Kits available for all 120V models
- Kits include a Master Heat Gun, A-160-HG shrink attachment, 51543 spreader attachment and a 51544 reducer attachment packed in a rugged plastic storage case
- To order add "-00-K" suffix to model number. - Example: HG-501T-00-K

# Electric Heat Guns

## Master Heat Gun Replacement Parts

Master Heat Gun® Replacement Parts (D-Series)	
Part No.	Description
35153	Blower Wheel
30071	Stand Kit
30073	Motor 120V
30074	Motor 220-240V
30075	Switch Bezel Kit (3 pos)
30076	Switch Bezel Kit (MC)
30077	Nozzle Shield Kit
30078	Grille Kit
30079	Cordset Kit 120V 15amp (-00)
30080	Cordset Kit 120V 20amp (-01)
30081	Cordset Kit 220V UL/CUL (-02)
30082	Element Kit, HG-801D (120V)
30083	Element Kit, HG-501D & VT-751D (120V)
30084	Element Kit, HG-502D & VT-752D (220V)
30085	Element Kit, HG-301D (120V)
30086	Element Kit, HG-302D (220V)
30087	Element Kit, HG-201D (120V)
30088	Element Kit, HG-202D (220V)
30089	Element Connector 15amp
30090	Element Connector 20amp
30091	Handle Kit
30092	VT-Knob Kit
30093	Circuit Board Kit VT-751D (120V)
30094	Circuit Board Kit VT-752D (220V)
30100	HG & VT Storage Case

Master Heat Gun® Replacement Parts (T-Series)	
Part No.	Description
35153	Blower Wheel
30072	Stand Kit
30073	Motor 120V
30075	Switch Bezel Kit (3 position)
30076	Switch Bezel Kit (Momentary Contact)
30077	Nozzle Shield Kit
30078	Grille Kit
30079	Cordset Kit 120V 15amp
30095	Thermoplastic Housing
30096	Grounding Kit
30100	Storage Case
30107	Element Kit, HG-501T
30109	Element Kit, HG-301T
30111	Element Kit, HG-201T
30113	Element Connector Kit

# Electric Heat Guns

## Proheat® Quick-Touch™ & Dualtemp™ Heat Guns & Kit



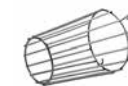
**PH-1100K**  
Proheat Dual Temperature Heat Gun with rugged storage case and 2 attachments (35016 & 35017)



**PH Series**  
Proheat Dualtemp Heat Gun



Quality attachments for professional applications



**35336**  
Proheat Nozzle Guard

### Proheat Quick-Touch Heat Gun (with momentary contact switch)

Model No.	Air Temp.	Air Velocity	Air Volume				
PH-1000	1000°F	4000 FPM	16 CFM	120V	60 Hz	11A	1300W

### Proheat Dualtemp Heat Gun

Model No.	Air Temp	Air Velocity	Air Volume				
PH-1100	500° or 1000°F	4000 FPM	16 CFM	120V	60 Hz	11A	1300W
PH-1100K	PH-1100 Heat Gun with storage case and 2 attachments (35016 & 35017)						

### Specifications

- **Motor:** Permanent Magnet
- **Nozzle Opening:** .88" I.D., 1.31" O.D.
- **Cordset:** 6 ft., 3-wire grounded
- **Dimensions:** 8.2" L x 3.0" W x 7.3" H
- 120V Models
- **Momentary Contact Switch**
- **Tool Net Weight:** 1.6 lbs.
- **Shipping Weight Tool:** 3 lbs.
- **Shipping Weight Kit:** 7 lbs.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Quick-Touch & Dual Temperature Heat Guns

- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- The PH-1100 has two heat settings 500°F or 1000°F (260°C or 540°C)
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- New Quick-Touch PH-1000 has Momentary Contact Switch — unit shuts off when switch is released
- Use to activate adhesives, bend plastics, dry filler material, shrink tubing and more
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories (page 13)

# Electric Heat Guns

## Proheat® Varitemp® Heat Gun & Kit



**PH-1200K**  
Proheat Varitemp Heat Gun with rugged storage case and 5 specialty attachments

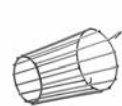


**PH Series**  
Proheat Varitemp  
Heat Gun

Easy access variable temperature control



Quality attachments for professional applications



**35336**  
Proheat  
Nozzle Guard



**PH-1200-1**  
Bench-Top  
Heat Shrink System

### Proheat Varitemp Heat Gun

Model No.	Air Temp.	Air Velocity	Air Volume				
<b>PH-1200</b>	130°-1000°F/50° - 540°C	4000 FPM	16 CFM	120V	60 Hz	11A	1300W
<b>PH-1200K</b>	PH-1200 Heat Gun with storage case and all 5 attachments (Part No. <b>35309</b> ) see page 13 for details						
<b>PH-1200-1</b>	PH-1200 Heat Gun with bench stand ( <b>35216</b> ) and specialty connector attachment ( <b>35292</b> )						

### Specifications

- **Motor:** Permanent Magnet
- **Nozzle Opening:** .88" I.D., 1.31" O.D.
- **Cordset:** 6 ft., 3-wire grounded
- **Dimensions:** 8.2" L x 3.0" W x 7.3" H
- 120V Models
- **Tool Net Weight:** 1.6 lbs.
- **Shipping Weight Tool:** 3 lbs.
- **Shipping Weight Kit:** 7 lbs.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Dial-in Variable Temperature Heat Gun

- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature from 130° - 1000°F (50° - 540°C)
- Electronic closed loop temperature control system maintains constant temperature and protects unit from overheating
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop

- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories (**page 13**)

# Electric Heat Gun

## Proheat® LCD Dial-in Heat Gun & Kit



**PH-1400K**  
Proheat LCD Dial-in Heat Gun with rugged storage case and 5 specialty attachments

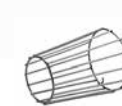


**PH Series**  
Proheat LCD  
Dial-in Heat Gun

Dial-in variable temperature & air flow controls



Quality attachments for professional applications



**35336**  
Proheat  
Nozzle Guard



**Proloc™**  
Magnetic Key

### Proheat LCD Dial-in Heat Gun

Model No.	Air Temp.	Air Velocity	Air Volume				
<b>PH-1400</b>	130° - 1000°F/50° - 540°C	737 - 4000 FPM	4 - 16 CFM	120V	60 Hz	11A	1300W
<b>PH-1400K</b>	PH-1400 Heat Gun with storage case and all 5 attachments (Part No. <b>35309</b> ) see page 13 for details						

### Specifications

- **Motor:** Permanent Magnet
- **Nozzle Opening:** .88" I.D., 1.31" O.D.
- **Cordset:** 6 ft., 3-wire grounded
- **Dimensions:** 8.2" L x 3.0" W x 7.3" H
- 120V Models
- **Tool Net Weight:** 1.6 lbs.
- **Shipping Weight Tool:** 3 lbs.
- **Shipping Weight Kit:** 7 lbs.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Dial-in Variable Temperature and Airflow LCD Heat Gun

- Compact, lightweight, easy-to-use
- LCD with digital display of temperature and air flow settings
- Dial-in temperatures in 10° increments from 130° - 1000°F (50° - 540°C) displayed in degrees Fahrenheit or Celsius
- Proloc Magnetic key provided with every unit locks controls to prevent changing of temperature and airflow
- Adjustable air flow from 4 to 16 CFM
- Electronic closed-loop temperature control system maintains constant temperature when varying air flow or using specialty attachments
- Base functions as built-in stand for hands-free use
- Power-interrupt Reset feature prevents unattended heat gun from resuming heat after a power failure
- Use to heat or dry temperature sensitive materials, shrink tubing, shrink packaging and specialty connectors, solder and desolder, bend plastics, activate adhesives, remove decals, defrost frozen pipes and more
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories (**page 13**)

# Electric Heat Gun

Proheat® STC™ Heat Gun



**PH Series**  
Surface Temperature  
Control Heat Gun

**PH-1600K**  
Proheat STC Heat Gun  
with rugged storage case

**35542**  
Storage  
Case

**35335**  
Proloc™  
Magnetic Key

**35337**  
Proheat STC  
Nozzle Guard

Master ProHeat STC Heat Gun									
Model No.	Surface Temp. Control	Nozzle Temp. Control	Air Velocity	Air Volume	Volts	Hz	Max Amps	Watts	Cord Length
PH-1600	90°–500°F	170°–1000°F	734–4000 FPM	4–16 CFM	120	60	11	1300	6 Ft
PH-1615	90°–500°F	170°–1000°F	734–4000 FPM	4–16 CFM	120	60	11	1300	16.4 Ft
PH-2600	40°–270°C	80°–540°C	213–1219 m/min	113–453 l/min	230	50/60	6.8	1564	1.83 M
PH-2615	40°–270°C	80°–540°C	213–1219 m/min	113–453 l/min	230	50/60	6.8	1564	5 M
PH-1600K	Includes PH-1600 and 35542 Storage Case								
PH-1615K	Includes PH-1615 and 35542 Storage Case								
PH-2600K	Includes PH-2600 and 35542 Storage Case								
PH-2615K	Includes PH-2615 and 35542 Storage Case								

## Specifications

- **Motor:** Permanent Magnet
- **Nozzle Opening:** .88" I.D., 1.31" O.D.
- **Cordset:** 6 ft., 3-wire grounded
- **Dimensions:** 8.2" L x 3.0" W x 7.3" H
- **120V Models, C € 230V Models**
- **Tool Net Weight:** 1.6 lbs.
- **Shipping Weight Tool:** 2 lbs. 10oz.
- **Shipping Weight Kit:** 3 lbs. 14oz.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Master Proheat STC Surface Temperature Control Heat Gun

- Heat gun can switch from surface temperature mode to standard nozzle sensing mode.
- Surface temperature range: up to 500°F/270°C at 1300 watts
- Unique Laser Targeting System™ provides accurate temperature measurement
- Surface temperature displays on the bottom row of the LCD and target temperature displays on top row
- Enables you to work in upper limits of the cure zone to bring surfaces up to temperature fast
- Proloc locking system prevents changing of temperature and airflow
- Avoids overheating or burning heat sensitive materials
- Green, yellow and red LED lights indicate progress in heating process
- Temperature display in either degrees Celsius or Fahrenheit
- Regulates heater to maintain target temperature
- Built-in hanging loop for storage in production area

# Electric Heat Guns

Proheat® Heat Gun Attachments & Accessories

Professional quality attachments and accessories add versatility to your Proheat Heat Guns. Direct, concentrate or reflect heat to allow more versatile and precise applications for your heat tool.

## Reducer Attachments



**35294\***  
3/8" (9 mm) Reducer  
Concentrates air flow.  
Also used with weld tips



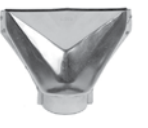
**35293\***  
5/8" (14 mm) Reducer  
Provides concentrated air flow



**35270\***  
3/4" (20 mm) Reduction Nozzle  
Concentrated air flow



**35260**  
2" (50mm) Spreader Nozzle  
Spreads air evenly over wide area



**35016**  
3" (75 mm) Spreader  
Spreads air evenly over wide area

## Reflector Attachments



**35272\***  
3/8" (9 mm) Reflector, Shrink Attachment  
For shrinking small diameter tubing  
Use with PN35294 3/8" Reducer



**35264\***  
3/8" (9 mm) Reflector, Shrink Attachment  
For shrinking small diameter tubing



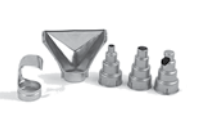
**35292\***  
5/8" (14 mm) Special Connector  
Use to terminate shrink, solder & crimp connectors



**35261**  
3" (75mm) Large Reflector  
For shrinking large diameter tubing



**35017**  
1 1/4" Shrink Attachment  
Reflects air around surface's such as tubing or pipe



**35309\***  
Attachment Kit  
Kit of 5 most popular attachments

## Deflector Attachments



**35262**  
2" (50mm) Window Nozzle Deflector  
Deflects heat away from windows



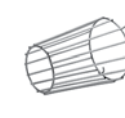
**35263**  
3" (75mm) Window Nozzle Deflector  
Deflects heat away from windows



**35216**  
Bench Stand  
To position guns for various applications



**35291**  
Seam Roller with ball bearings  
For lap welding, edging tape and roofing applications



**35336**  
Nozzle Guard  
To protect hands and surface from hot nozzle tip



**35351**  
Storage Case  
Transport & store in a rugged plastic case

## Accessories

## Welding Attachments



**35295\***  
Plastic Welding Rod Nozzle w/ 7mm intake  
For use with welding rod, use with 3/8" reducer



**35271\***  
Tacking Tip  
For tacking parts together prior to welding so they will not move, use with 3/8" reducer



**35296\***  
3/4" (20 mm) Lap Welding Nozzle  
For lap welding plastic materials, use with 3/8" reducer



**35266\***  
1 1/2" 40mm Angle Slit Nozzle  
Lap welds roofing materials



**35267\***  
3" (75mm) Teflon Coated Butt Welding Heat Disc  
For butt welding PVC pipes

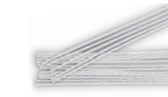


**35268\***  
1 1/2" (40mm) Lap Welding Slit Nozzle  
For lap welding PVC Sheeting

## Welding Rods (Pkg. of 16) Round, 1/8" Dia. x 9" Long



**35297**  
ABS Welding Rod  
Acrylonitrile Butadiene Styne, Natural, for welding ABS plastics



**35298**  
PP Welding Rod  
Polypropylene, Natural, for welding PP plastics



**35299**  
PVC Welding Rod  
Polyvinyl Chloride, Grey, for welding PVC plastics



**35300**  
LDPE Welding Rod  
Low Density Polyethylene, Natural, for welding LDPE plastics



**35301**  
HDPE Welding Rod  
High Density Polyethylene, for welding HDPE plastics

\* Not for use on the PH-1000, PH-1100

# Electric Heat Guns

## Proheat® Heat Gun Attachment Compatibility

**Professional quality stainless steel attachments add versatility to your Proheat.**

Reduce, concentrate, pinpoint, spread, reflect or weld, attachments enable the precise application of heat to your job. These Attachments & Tips can be used on the following Models:

Model No.	Description	PH-1000	PH-1100	PH-1200	PH-1400	PH-1600*	PH-1615*
<b>Reducer &amp; Spreader Attachments</b>							
35294	3/8" (9MM) Reducer			•	•	•	•
35293	5/8" (14mm) Reducer			•	•	•	•
35270	3/4" (20mm) Reducer			•	•	•	•
35260	2" (50mm) Spreader	•	•	•	•	•	•
35016	3" (75mm) Spreader	•	•	•	•	•	•
<b>Reflector Attachments</b>							
35272	3/8" (9MM) Reflector			•	•	•	•
35264	3/8" (9MM) Reflector w/ Reducer			•	•	•	•
35292	5/8" (14mm) Specialty Connector			•	•	•	•
35261	3" (75mm) Large Reflector	•	•	•	•	•	•
35017	1 1/4" Shrink	•	•	•	•	•	•
<b>Attachment Kit</b>							
35309	Attachment Kit - 5 Items			•	•	•	•
<b>Deflector Attachments</b>							
35262	2" (50mm) Window Glass Deflector	•	•	•	•	•	•
35263	3" (75mm) Window Glass Deflector	•	•	•	•	•	•
<b>Welding Tips</b>							
35295	7mm Rod, Speed Welding Tip			•	•	•	•
35271	Tacking Tip			•	•	•	•
35296	3/4" (20mm) Lap Welding			•	•	•	•
35266	1 1/2" (40mm) Angle Slit Attach.			•	•	•	•
35267	3" (75mm) Teflon Butt Weld Disk			•	•	•	•
35268	1 1/2" (40mm) Lap Welding Tip			•	•	•	•

\* Nozzle Sensing Mode Only

# Electric Heat Guns

## EC-200 Variable Temperature Heat Gun & Kit



**EC Series  
EC-200K**

Kit includes EC-200 Heat Gun, 7/16" air reducer, shrink tubing attachment, 1-15/16" spreader, 3-1/8" spreader attachment, 1 flat metal scraper, 1 scraper handle with 3 interchangeable blades, durable storage case

**EC Series  
EC-200**

### EC Series Heat Gun & Kit

Model No.	Description	Low or High
EC-200	110° to 930°F 45° to 500°C	5 or 9 CFM 120V 60 Hz 10A 1200W
EC-200K	Kit includes: EC-200 Heat Gun, 7/16" air reducer, shrink tubing attachment, 1-15/16" spreader, 3-1/8" spreader attachment, 1 flat metal scraper, 1 scraper handle with 3 interchangeable blades, durable storage case	

### Specifications

- **Air Volume:** 5 or 9 CFM
- **Motor:** Permanent Magnet
- **Nozzle Opening:** 1.2" I.D., 1.35" O.D.
- **Cordset:** 6ft, 2 Prong - Double Insulated
- **Dimensions:** 10" L x 3.5" W x 9" H
- **120V Models**
- **Tool Net Weight:** 1.6 lbs.
- **Shipping Weight Tool:** 2 lbs.
- **Shipping Weight Kit:** 5 lbs.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Variable Temperature, Lightweight, Multi-Use Heat Gun

- Variable temperature heat gun 110°F to 930°F (45°C to 500°C)
- Two fan speeds - Low or high
- Lightweight - 1.6 lb. - Easy to hold at any angle for long periods of time, eliminates operator fatigue
- Built-in hand guard - Protects hand and fingers. Recessed switch guards against knocks and bumps
- Thermoplastic housing - For high impact durability
- Built-in stand - Very stable, allows user to set heat gun down in an upright position for hands-free use
- Use to bend and form plastics, dry body fillers, remove decals, spot dry paint, shrink tubing, packaging and more

# Electric Heat Guns

## EC-MINI Heat Gun



EC-Mini					
Model No.	Temperature		Voltage	Amps	Watts
	°F	°C			
EC-MINI	650	338	120	9.9	350

### Specifications

- **Cordset:** 6.5ft, 2 Prong - Double Insulated
- **Shipping Dimensions:** 10.5" L x 3.5" W x 2.5" H
- **Tool Net Weight:** 12.75 oz
- **Shipping Weight:** 14.5 oz.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Lightweight, Portable, Versatile, Reliable Heat Source For a Variety of DIY Projects

- Temperature output: 640°F
- Strong 9.9 CFM Airflow
- 350 Watts of Power
- Lightweight design, easy to hold like a pen
- Extra-long 6.5 foot power cord
- Impact resistant plastic housing
- Built in wire stand great for hands free use
- Comes with heat shrink tube reflector
- Perfect tool for: embossing, heat shrinking electrical connectors, crafts, candle making, decal removal, vinyl wrap and more...
- Backed by Master's 1 year limited warranty

# Electric Heat Guns

## Masterflow® Heat Blower



Masterflow Heat Blower							
Model No.	Description						Replacement Element
AH-301**	300°F	150°C	120V	60 Hz	10A	1200W	815 (3.5"), 35485 (6")
AH-501	500°F	260°C	120V	60 Hz	14A	1680W	30310
AH-751*	750°F	400°C	120V	60 Hz	18A	2160W	30312
AH-302**	300°F	150°C	240V	60 Hz	5.2A	1200W	816 (3.5"), 35486 (6")
AH-502	500°F	260°C	240V	60 Hz	7.3A	1680W	30311
AH-752	750°F	400°C	240V	60 Hz	9.4A	2160W	30313

\*\* 815 and 816 Element for 3.5" Nozzle, 35485 and 35486 Element for 6" Nozzle.

### Specifications

- **Air Volume:** 47 CFM
- **Air Velocity:** 2200 FPM
- **Motor:** Induction
- **Nozzle Opening:** 1.85" I.D., 2.25" O.D.
- **Cordset:** 6 ft., 3-wire grounded
- **Dimensions:** 12" L x 6" W x 9" H
- **Base Size:** 6" x 6"
- **Net Weight:** 6 lbs.
- **Shipping Weight:** 8 lbs

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Professional Quality, Continuous-duty, Process Heat Blower

- 3 models produce 300°F, 500°F or 750°F. High temperatures accommodate many heating, drying & shrinking applications
- High air flow: 47 CFM at 2200 FPM gets job done fast
- Brushless induction type motor for quiet, continuous-duty operation
- Easily replaceable, reinforced, mica-insulated heating element
- Rubber-backed stand permits 90° non-slip adjustability
- Use in any position or mount on equipment
- Ergonomic handle for carrying or portable use
- Mount over conveyor line or on machinery
- Use to heat or dry materials, bend plastics, shrink wrap and more

# Electric Heat Guns

## Master-Mite® Heat Gun



### Optional Accessories



**40060**  
Heat shrink attachment



**40061**  
1/4" pinpoint attachment



**50675**  
Bench stand

Master-Mite Heat Gun						
Model No.	Description					
10008	650°F	343°C	120V	60 Hz	4.5A	475W
10009	650°F	343°C	220V	50 Hz	2.0A	450W

Optional Replacement Heating Elements						
Part No.	Description					
20012	Blue	500°F	260°C	120V	340W	
20013	Silver	650°F	343°C	120V	475W	
20014	Black	800°F	427°C	120V	525W	
20033	Blue	500°F	260°C	220V	400W	
20034	Silver	650°F	343°C	220V	450W	
20035	Black	800°F	427°C	220V	500W	
20160	Blue	500°F	260°C	240V	400W	
20161	Silver	650°F	343°C	240V	450W	
20162	Black	800°F	427°C	240V	500W	

### Specifications

- **Air Volume:** 3.8 CFM
- **Air Velocity:** 700 FPM
- **Motor:** Shaded Pole
- **Nozzle Opening:** .99" I.D., 1.03 O.D."
- **Cordset:** 6 ft., 3-wire grounded
- **Dimensions:** 8.8" L x 3.3" W x 7" H
- 120V Models
- **Net Weight:** 1.7 lbs.
- **Shipping Weight:** 3 lbs.

*NOTE: Users should independently evaluate the suitability of the product for their application.*

### Continuous-duty Bench-top Heating System

- Complete system comes standard with 650°F/343°C heating element, adjustable stand and heat shrink attachment
- Quiet-running shaded pole motor, eliminates noisy production areas
- 3 optional easy-to-change plug-in heating elements available: 500°, 650° & 800°F
- Ideal heat & air flow (3.8 CFM), performs benchtop heating jobs without blowing components around the work station
- Use to activate adhesive, cure epoxies, dry components, melt solder preforms, remove decals, shrink tubing and more

# 02

# Plastic Welding Tools

## Proheat® LCD Plastic Welding Kit

### Each Welding Kit Includes:



**Heavy Duty Storage & Carrying Case**  
Safely and conveniently stores kit contents



**Speed Welding Tip (35295)**  
For welding rod up to 6 mm diameter



**Tacking Tip (35271)**  
For tacking parts together prior to welding so they will not move



**3/8" Reducer (35294)**  
Required to attach welding tips



**5/8" Reducer (35293)**  
Provide concentrated airflow



**1/4" Shrink Attachment (35017)**  
Reflects air around shrink tubing or pipe



### Plastic Welding & Proheat Instruction Manuals

Provides Informative How-to-Use Instructions

### 5 Starter Welding Rod Assortment (6 ea.)

Round 1/8" Diameter, 9" Long:

- PVC Welding Rod
- PP Welding Rod
- ABS Welding Rod
- HDPE Welding Rod
- LDPE Welding Rod

### Proheat LCD Dial-in Heat Gun (PH-1400)

One compact, Light weight, Easy-to-use, Master Proheat Model PH-1400 Heat Gun

- Dial-in LCD display of temperature and air flow settings
- Dial-in temperatures in 10° increments 130°F to 1000°F
- Dial-in air flow from 4 to 16 CFM (113 to 453 l/min)
- Control system prevents overheating when using specialty attachments
  - Temperature & airflow lock-in feature
  - Assembled in USA
- See page 10 for more details

### Proheat LCD Plastic Welding Kit

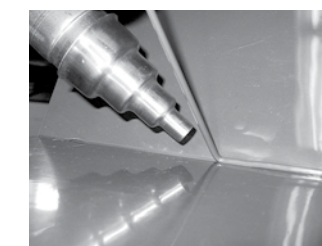
Model No.	PH-1400WK
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*NOTE: See page 13 for more info on kit contents.*

*NOTE: Users should independently evaluate the suitability of the product for their application.*



Welding Flooring Material



Pendulum Welding



Speed Welding



Mirror Welding

### A Complete Plastic Welding System

- The Master Proheat Plastic Welding Kit makes fabricating and repairing thermoplastics fast and simple. Each kit is a self-contained, general purpose plastic welding system with everything needed for hot air welding a wide variety of thermoplastic materials: rigid and flexible plastics, auto bumpers, tarps, liners, covers, tents, inflatables and more. The kit includes practice welding rod and instruction manual.
- The heart of the system is the Master Proheat LCD Model PH-1400 Dial-in Electric Heat Gun. Dial-in control lets you set both temperature and airflow. Once the proper temperature and airflow for a specific welding application is determined, it can be "locked-in" and saved for use again and again with the exclusive, innovative magnetic key lock-in feature. An electronic control system prevents over-heating when the heat gun is used with special welding attachments.

# Plastic Welding Tools

## Ultraweld™ UW-100 Cordless Plastic Welding Kit



UW-100  
Cordless Plastic Welder



Ultraweld  
UW-100 Cordless  
Plastic Welding Kit Contents

- 1 UW-100 Butane Powered Welder
- Nozzle Cleaner
- Ejector Spanner
- Hex Spanner Wrench
- Rugged Plastic Storage Case
- Battery cartridge, (holds 4 AA batteries to power air fan and LED light, batteries not included)

### Ultraweld UW-100 Cordless Plastic Welding Kit

Model No. UW-100

#### Specifications

- **Approx. Hot Air Temp:** 1202F (650C)
- **Approx Operating Time:** 120 min.
- **Fuel Tank Capacity:** 1 fl. Oz. (28 cc)
- **Kit Shipping Weight:** 3 lbs
- **Package Dimensions:** 17.4 x 13.39 x 5.71 inches
- **Batteries** Not Included

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### Master Ultraweld UW-100 Cordless Plastic Welder

- NEW to the Master line of heat tools!
- Cordless, butane powered plastic welder
- Self igniting with push button ignition
- Fill with Master's Ultratane Butane, heats up and ready to use in 30 seconds
- Adjustable temperature control
- LED light positioned underneath welder ensures easy viewing of floor seam even in dim lighting conditions
- Lightweight, not bulky like traditional heat welding guns
- Great for use where electrical outlets are not readily available, small to medium size touch up jobs and corners. No extension cords needed
- Air fan and LED light on handle operates off of 4 AA batteries, batteries not included.

# Butane-Powered Soldering Irons

## PI-20SiK Professional Soldering Iron Kit



PI-20SiK  
Professional Soldering Iron Kit Contents

- Soldering Iron
- 4 Soldering Tips
- Flameless Heat Shrink Adapter
- Hot Knife Tip
- Lead-free Solder
- Sponge Tray
- Protective Cap
- Case

### Professional Soldering Iron Kit

Model No.	Description
PI-20SiK	Professional butane soldering iron, flameless heat tool and torch with 4 soldering tips, flameless heat shrink adapter, hot knife tip, lead-free solder, sponge tray, protective cap and case

#### Specifications

- **Adjustable Soldering Temp:** 680°F to 820°F (360°C to 438°C)
- **Approx Hot Air Temp:** 820F (438C)
- **Approx Torch Temp:** 2370F (1300C)
- **Power:** 167 watts max. (16 grams/hour consumption rate)
- **Refillable Tank Capacity:** 7 ml (0.24 fl oz)
- **Tank Run Time:** 60 minutes at low setting, 30 minutes at high setting.
- **Dimensions:** 8.7 inch L (220mm) x 1.08" W (27.5mm) x 1.7" H (43mm)
- **Weight:** 2.9oz (.18 lb; 82 grams) without fuel
- **Shipping Weight:** 1.1 lbs
- **Soldering Tips:** Base material copper; gold plating (0.2 – 0.3 microns)

**NOTE:** Users should independently evaluate the suitability of the product for their application.

### PI-20SiK Professional Butane Powered Soldering Iron, Flameless Heat Tool and Torch Kit

- Cordless, portable, lightweight and easy to use
- Self-igniting
- Open flame function
- Power with Master Ultratane® butane fuel
- Use to shrink electrical connectors, shrink tubing, cordless soldering, light gauge welding, use as an open flame torch and more

# Butane-Powered Soldering Irons

Ultratorch® Heat Tools

Extra Long Tip Life | Superior Heat Transfer | Engineered For Reliable Performance



The Master Ultratorch®	UT-40Si	UT-50	UT-100Si	UT-200Si
Wattage Output Equivalent	20-80 Watts	20-60 Watts	20-80 Watts	200 Watts
Runtime on Full Tank	75 mins	20 mins	120 mins	2.6 hours
Self-Igniting Piezo Switch	✓		✓	✓
Pinpoint Torch Mode		✓	✓	
Flameless Heat Mode	✓	✓	✓	✓
Extra Long Lasting Ultratip Soldering Tips	✓	✓	✓	✓

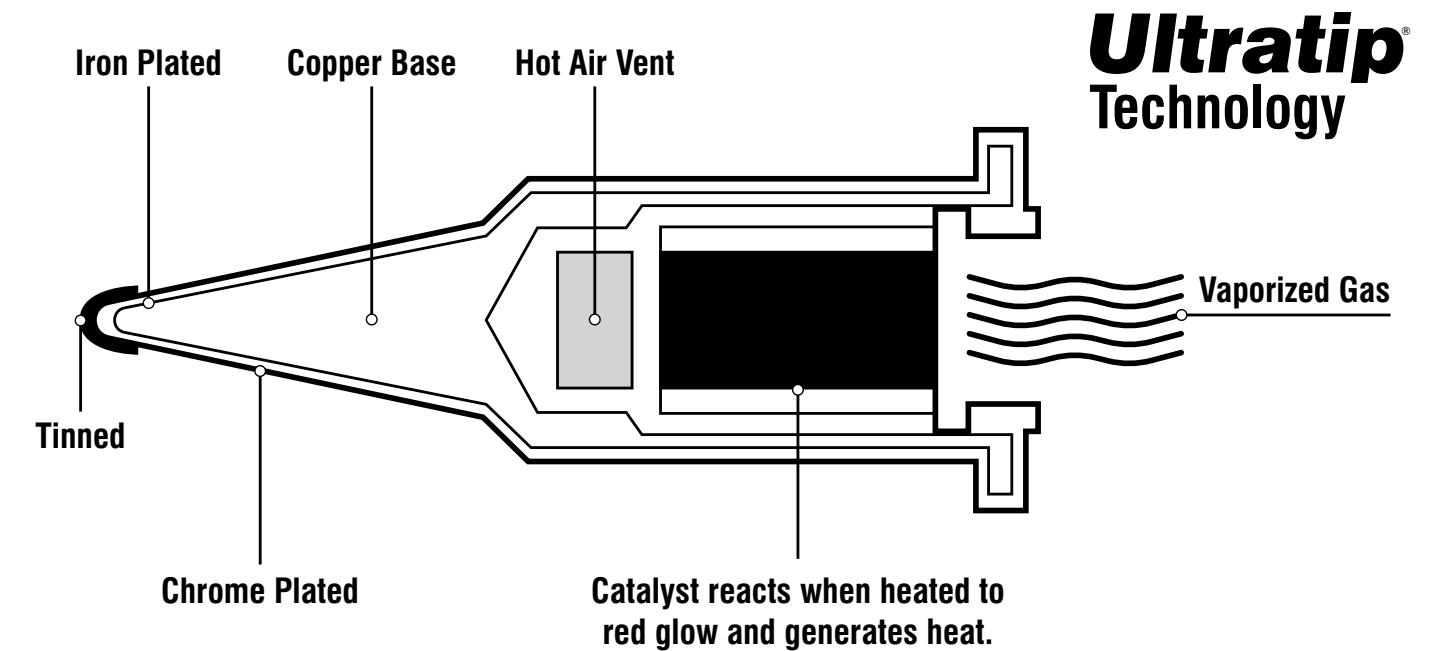
# Butane-Powered Soldering Irons

Ultratip® Technology

Ultratips Have 2 Main Benefits Over the Competition:

- Double the iron and chrome plating thickness - provides extra-long tip life
- Copper based tips - transfer more heat to the end of the tip for more efficient soldering than the competition

Since today's lead-free solder's high tin content erodes the tip's iron plating faster, Ultratip's thicker iron and chrome plating will significantly extend the tip life. Cleaning your tips often and immediately re-tinning them will also keep them in top condition longer.



## Why Buy An Ultratorch®?

### Versatile

Master assembled a collection of 4 Ultratorches that vary in size and power output. From the pocket-sized UT-50 to the heavy-duty UT-200Si, the Ultratorch family covers a wide range of soldering and heat shrink needs.

### Portable

All Master Ultratorches are butane powered. No cords, no outlets needed. Fill with Master Ultratane® Butane fuel time and time again for reliable performance.

### Wide Selection of Tips and Accessories

Master offers a selection of over 50 tips and accessories to choose from to tailor your Ultratorch perfectly to your application(s). Select a wider soldering tip for a heavy-duty job or different size heat shrink reflector to match your wire size.

### Master Backed

With over 60 years of experience in the heat tool industry, Master supports a conditional 1-year warranty on all Master products. Master also offers a convenient flat-fee repair program to return your Ultratorch back to tip top shape.

# Butane-Powered Soldering Irons

Ultratorch® UT-40Si



The **UT-40Si** is a self-igniting soldering iron, heat tool. It comes standard with a protective cap, solder tip, and heat tip.



- Features & Benefits**
- Lightweight and easily portable
  - Adjustable temperature up to 1200°F (heat tip)
  - Operates up to 1.25 hours per refill of Master Ultratane® butane
  - Patented top-quality soldering tip with ceramic catalyst
  - Easy-to-use self-igniting slide switch

Ultratorch UT-40Si	
Model No.	Description
UT-40Si	Ultratorch soldering iron/flameless heat tool
UT-40SiH	Ultratorch w/hot air tip & shrink attachment

Specifications	
<ul style="list-style-type: none"> <li>Approx. Soldering Tip Temp.: 840°F (450°C)</li> <li>Approx. Hot Air Tip Temp.: 1202°F (650°C)</li> <li>Equivalent to Electric Iron: 20 to 80 Watt</li> <li>Approx. Operating Time: 1.3 hrs.</li> <li>Fuel Tank Capacity: .5 fl. oz.</li> </ul>	<ul style="list-style-type: none"> <li>Tool Dimensions: 8.3" L (200mm) w/o cap</li> <li>Tool Net Weight: 2.6 oz.</li> <li>Shipping Weight: 1 lb.</li> <li>Shipped Empty</li> </ul>
NOTE: Users should independently evaluate the suitability of the product for their application.	

Optional Accessories			
Part No.	Description	Part No.	Description
<b>Ultratip Soldering Tips</b>		<b>Hot Air Tips &amp; Shrink Attachment</b>	
91-01-01	1mm wide chisel soldering tip	91-01-50	1.6mm wide hot air tip
91-01-02	2.4mm wide chisel soldering tip (std. UT-40Si)	91-01-52	4.7mm wide hot air tip (std. all models)
91-01-03	2mm wide chisel soldering tip	70-01-55	.5"/12.7mm dia., .75"/19mm wide heat shrink attachment (std. UT-40SiH) (requires)
91-01-04	5mm wide chisel soldering tip		
<b>Hot Knife Tip</b>		<b>Protective Cap &amp; Carrying Case</b>	
91-01-53	Hot knife tip	91-02	Protective cap (std. all models)
		70-52U	Carrying strap

# Butane-Powered Soldering Irons

Ultratorch® UT-50



The **UT-50** is a pocket-sized 3-in-1 tool, serving as a soldering iron, flameless heat tool and torch. It comes standard with a protective cap, soldering tip, and heat tip.



- Features & Benefits**
- Lightweight and easily portable
  - Aluminum fuel tank with viewing window
  - Operates nonstop for approx. 20 minutes at #3 setting
  - Solder tip can reach 842°F, equivalent to a 60-Watt soldering iron
  - Torch tip can reach 2372°F
  - Works with specialty environmental connectors such as Proseal™ and Solderseal™
  - Top-quality pre-tinned copper-based soldering tips
  - Patented combustion chamber/exhaust port design
- Applications**
- Pinpoint heat
  - Remove surface mount components
  - Repair vinyl
  - Shrink tubing
  - Solder & desolder
  - Strip insulation
  - Spot dry
  - Torch materials
  - And more

Ultratorch UT-50	
Model No.	Description
UT-50	Pen-sized butane-powered soldering iron, flameless heat tool and torch with hot air tip, soldering tip and protective cap

Specifications	
<ul style="list-style-type: none"> <li>Approx. Soldering Tip Temp.: 392° - 842°F (200° - 450°C)</li> <li>Approx. Hot Air Tip Temp.: 806°F (430°C)</li> <li>Approx. Torch Tip Temp.: 2372°F (1300°C)</li> <li>Equivalent to Electric Iron: 20 to 60 Watt</li> <li>Approx. Operating Time: 20 min.</li> </ul>	<ul style="list-style-type: none"> <li>Fuel Tank Capacity: .2 fl. oz. (6 cc)</li> <li>Tool Dimensions: 6.5" L (165mm)</li> <li>Net Weight: 2.2 oz</li> <li>Shipping Weight: 1 lb.</li> <li>Shipped Empty</li> </ul>
NOTE: Users should independently evaluate the suitability of the product for their application.	

Optional Accessories	
Part No.	Description
71-01-01	1mm dia. tapered needle tip
71-01-02	2.4mm dia. chisel tip (std.)
71-01-03	2mm dia. spade tip
71-01-04	3mm dia. spade tip
70-35	Ejector spanner wrench
71-01-50	1.5mm dia. hot air tip
71-01-52	4.7mm dia. hot air tip (std.)
70-01-55	.5"/12.7mm dia., .75"/19mm wide heat shrink attachment
70-52U	Carrying strap

# Butane-Powered Soldering Irons

## Ultratorch® UT-100Si, Kit & Tool Case



UT Series  
Ultratorch UT-100Si-TC

Includes heat tool, 3 soldering tips and flameless hot air tip, hot knife, solder, wire cutter, needle nose pliers and cap in a rugged storage/carrying case

UT Series  
Ultratorch UT-100SiK



The UT-100Si is a high-capacity, self-igniting unit serving as a soldering iron and heat tool. It comes standard with soldering tip, heat tip, shrink attachment, and protective cap.

### Specifications

- **Approx. Soldering Tip Temp.:** 482° - 932°F (250° - 500°C)
- **Approx. Hot Air Tip Temp.:** 1202°F (650°C)
- **Approx. Flame Temp.:** 2500°F (1371°C)
- **Equivalent to Electric Iron:** 20 to 80 Watt
- **Approx. Operating Time:** 120 min.
- **Fuel Tank Capacity:** 1 fl. oz. (28 cc)
- **Tool Dimensions:** 10.3" L (260mm)
- **Tool Net Weight:** 5.5 oz. (100 g)
- **UT-100Si Shipping Weight:** 1 lb.
- **UT-100SiK Shipping Weight:** 2 lbs.
- **UT-100Si-TC Shipping Weight:** 3 lbs.
- **Shipped Empty**

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Professional Self-igniting Butane-powered Soldering Iron, Flameless Heat Tool & Torch

### Features & Benefits

- Lightweight and easily portable
- Built-in fuel filter for consistent fuel ignition
- Built-in window indicates fuel level
- Operates nonstop for approx. 2 hours at #3 setting
- Adjustable temperature up to 1200°F (hot air tip)
- Solder tip can reach 932°F

- Equivalent to an 80-Watt soldering iron
- Works with specialty environmental connectors such as Proseal™ and Solderseal™
- Easy-to-use gas control knob
- Top-quality pre-tinned copper-based soldering tips
- Patented combustion chamber/exhaust port design

### Applications

- Pinpoint heat
- Remove surface mount components
- Repair vinyl
- Shrink tubing and wire connectors
- Solder & desolder
- Spot dry
- **And more**

# Butane-Powered Soldering Irons

## Ultratorch® UT-100Si Ultratips® and Accessories



### Ultratorch UT-100Si Tips and Accessories

Model No.	Description	Model No.	Description
<b>Soldering Tips</b>			
70-01-01	1mm dia. tapered needle soldering tip	70-01-08	2mm dia. 35° spade soldering tip
70-01-02	3.3mm dia. chisel soldering tip (std., all models)	70-01-09	3mm dia. 35° spade soldering tip
70-01-03	2mm dia. spade soldering tip	70-01-10	1mm dia. offset tapered needle soldering tip
70-01-04	3mm dia. spade soldering tip	70-01-11	8mm dia. high powered chisel soldering tip (std., UT-100Si-TC)
70-01-05	0.5mm dia. tapered needle soldering tip (std. UT-100Si-TC)	70-01-12	3mm dia. high powered round head needle tip
70-01-06	2mm dia. micro spade soldering tip	70-01-13	.5mm dia. high powered long tapered chisel tip
70-01-07	0.5mm dia. square tapered pyramid soldering tip	70-01-15	7mm dia. 45° spade soldering tip
<b>Hot Air Tips</b>			
70-01-50	2.5 O.D./1.59 I.D. (mm) hot air tip	70-01-52	5.7 O.D./4.9 I.D. (mm) hot air tip (std. all models)
70-01-51	4.25 O.D./3.3 I.D. (mm) hot air tip	70-01-53	8.0 O.D./6.9 I.D. (mm) hot air tip
<b>Hot Knife Tip</b>			
70-01-16	Hot knife tip (std. UT-100Si-TC, UT-100SiHK)	<b>Adapter</b>	
70-01-14	8.4 tip adapter (4mm dia. x .7 pitch mm)		
<b>Accessories</b>			
70-01-54	.75"/19mm dia., .825"/22.2mm wide heat shrink attachment	70-40U	Metal storage box (std. with UT-100SiK)
70-01-55	.5"/12.7mm dia., .75"/19mm wide heat shrink attachment (std. all models)	70-43	Tool holder (std. with UT-100SiK)
70-35	Ejector spanner wrench	70-52U	Carrying strap
70-37U	Tip cleaner sponge (std. with UT-100SiK)	90-02	Protective cap (std. UT-100Si, UT-100Si-TC)

## Ultratip Soldering Tips For Use With UT-100Si Ultratorches

- Oxygen-free, copper based Ultratip soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces uniform iron and chrome plating thickness
- Ultratip soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips pre-tinned with lead-free solder



70-52U Carrying strap  
90-02 Protective cap

# Butane-Powered Soldering Irons

Ultratorch® UT-200Si



The **UT-200Si** is a high-powered, self-igniting unit serving as a soldering iron and flameless heat tool for heavy duty jobs. It comes standard with solder tip, heat tip, shrink attachment, and protective cap.

## Ultratorch UT-200Si

Model No.	Description
-----------	-------------

**UT-200Si** Self-igniting, butane-powered soldering iron/heat tool, with soldering tip, hot air tip, shrink attachment and protective cap

Specifications	
<ul style="list-style-type: none"> <li>▪ <b>Approx. Soldering Tip Temp.:</b> 482° - 986°F (250° - 530°C)</li> <li>▪ <b>Approx. Hot Air Tip Temp.:</b> 1004°F (540°C)</li> <li>▪ <b>Approx. Operating Time:</b> 120 min.</li> <li>▪ <b>Fuel Tank Capacity:</b> 2.2 fl. oz. (63 cc)</li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>Tool Dimensions:</b> 11.9" L (300mm)</li> <li>▪ <b>Tool Net Weight:</b> 9 oz.</li> <li>▪ <b>Tool Kit Weight:</b> 13.3 oz.</li> <li>▪ <b>Shipping Weight:</b> 1 lb.</li> <li>▪ <b>Shipped Empty</b></li> </ul>

*NOTE: Users should independently evaluate the suitability of the product for their application.*

## Professional Self-igniting Butane-powered Soldering Iron, Flameless Heat Tool

### Features & Benefits

- Built-in fuel filter for consistent fuel ignition
- Built-in window indicates fuel level
- Operates nonstop for approx. 4.5 hours at #3 setting
- Adjustable temperature up to 1004°F (hot air tip)
- High-performance solder tip can reach 986°F
- Equivalent to a 200-Watt soldering iron
- Works with specialty environmental connectors such as Proseal™ and Solderseal™
- Easy-to-use gas control knob
- Top-quality pre-tinned copper-based soldering tips
- Patented combustion chamber/exhaust port design

### Applications

- Pinpoint heat
- Shrink tubing
- Solder & desolder
- Strip insulation
- Terminate specialty connectors
- **And more**

# Butane-Powered Soldering Irons

Ultratorch® UT-200Si Ultratips® and Accessories



**72-01-01**  
3mm dia. tapered needle

**72-01-02**  
10mm dia. chisel

**72-01-03**  
4mm dia. spade

**72-01-05**  
1mm dia. tapered needle

**72-01-06**  
4mm dia. micro spade

**72-01-07**  
1.5mm dia. tapered pyramid

**72-01-11**  
7mm dia. chisel

**72-01-12**  
4mm dia. chisel

**72-01-13**  
12.5mm dia. 45° spade

**72-01-14**  
Adapter

**72-01-51**  
5.6 O.D./3.6 I.D. (mm)

**72-01-52**  
8.6 O.D./6.6 I.D. (mm)

**72-01-53**  
11.5 O.D./9.7 I.D. (mm)

**72-02**  
Protective cap

**72-01-54**  
1"/25.4mm dia., .1"/25.4mm wide heat shrink

**72-01-55**  
1.25"/32mm dia., 1.25"/32mm wide heat shrink

**80-35**  
Ejector spanner wrench

**80-40**  
Open end wrench

**72-52U**  
Carrying strap

## Ultratorch UT-200Si Tips and Accessories

Model No.	Description
-----------	-------------

### Soldering Tips

<b>72-01-01</b>	3mm dia. tapered needle soldering tip
<b>72-01-02</b>	10mm dia. chisel soldering tip (std. UT-200Si)
<b>72-01-03</b>	4mm dia. spade soldering tip
<b>72-01-05</b>	1mm dia. tapered needle soldering tip
<b>72-01-06</b>	4mm dia. micro spade soldering tip
<b>72-01-07</b>	1.5mm dia. tapered pyramid soldering tip
<b>72-01-11</b>	7mm dia. chisel soldering tip
<b>72-01-12</b>	4mm dia. chisel soldering tip
<b>72-01-13</b>	12.5mm dia. 45° spade soldering tip

### Hot Air Tips

<b>72-01-51</b>	5.6 O.D./3.6 I.D. (mm) hot air tip
<b>72-01-52</b>	8.6 O.D./6.6 I.D. (mm) hot air tip (std. all models)
<b>72-01-53</b>	11.5 O.D./9.7 I.D. (mm) hot air tip

### Adapter

<b>72-01-14</b>	Adapter (5mm dia. x 8mm pitch) tip
-----------------	------------------------------------

### Accessories

<b>72-01-54</b>	1"/25.4mm dia., .1"/25.4mm wide heat shrink attachment
<b>72-01-55</b>	1.25"/32mm dia., 1.25"/32mm wide heat shrink attachment (std. UT-200, UT-200Si)
<b>72-02</b>	Protective cap (std. UT-200Si)
<b>72-52U</b>	Carrying strap
<b>80-35</b>	Ejector spanner wrench (std. UT-200Si)
<b>80-40</b>	Open end wrench (std. UT-200Si)

## Ultratip® Soldering Tips for Use With The UT-200Si Ultratorch®

- Oxygen-free, copper based Ultratip soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces a uniform iron and chrome plating thickness
- Ultratip soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips are pre-tinned with lead-free solder

# Butane-Powered Torches

# 04

PT-2000Si Propane and Mapp Gas Torch Head



## PT-2000Si Torch Head

Model No.	Description
-----------	-------------

**PT-2000Si** Heavy duty, propane blow torch head with high intensity flame

## Specifications

- **Propane Flame Temp:** 3600F
- **MAPP Gas Flame Temp:** 3730F
- **Tool Dimensions:** 13.39" x 6.19" x 1.5"
- **Tool Weight:** 1.08 lbs

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## High Intensity Flame, Instant Ignition, Rugged Housing

- High Intensity swirl flame puts out maximum focused heat for large diameter brazing, welding, and soldering projects
- Push button piezo igniter for reliable, instant ignition every time
- Adjustable flame knob to easily size flame for different applications
- Works great with Propane Fuel (flame burns at 3600F) or MAPP Gas (flame burns at 3730F)
- Cast aluminum housing built to last
- Ergonomic handle design for comfortable grip
- Run lock push button keeps flame active for continuous use
- Regulator valve for consistent flame when tilted

# Butane-Powered Torches

Microtorch MT-11 & MT-11K



**MT Series**  
Microtorch MT-11

**MT Series**  
Microtorch MT-11K



## Microtorch MT-11

Model No.	Description
<b>MT-11</b>	Microtorch, palm-sized, shipped without fuel
<b>MT-11K</b>	Microtorch with 2oz can of butane (10449)

## Specifications

- **Approx. Flame Temp:** 2500°F
- **Fuel Tank:** Refillable Fuel Cell
- **Approx. Run Time:** 20 min. @ max. setting
- **Dimensions:** 4.3" H x 2.5" W x 1" D
- **Tool Net Weight:** 2.1 oz.
- **Shipping Weight Tool:** 1 lb.
- **Shipping Weight Kit:** 2 lbs.

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Palm-sized Microtorch

- Built-in self-igniting system with safety lock
- Temperatures up to 2500°F/1300°C
- Compact palm-sized, perfect for tool kits and field service kits
- Adjustable wind-resistant flame
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Ships via ground transportation without hazmat charges
- Kit includes microtorch with empty fuel cell and 2 oz. can of butane packed in single shipper carton with proper D.O.T. markings
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more
- Replaceable, refillable "fuel cell" (included)

# Butane-Powered Torches

## Mini-Triggertorch MT-70



MT Series  
Microtorch MT-70



### Mini-Triggertorch MT-70

Model No.	Description
MT-70	Mini-Triggertorch, mini, hand-held

### Specifications

- **Approx. Flame Temp.** 2500°F
- **Fuel Tank:** Plastic, Built-in, Refillable
- **Approx. Run Time:** 60 min. @ max. setting
- **MT-70 dimensions:** 5.5" L x 3.8" H x 1.3" W
- **Tool Net Weight:** 6.4 oz.
- **Shipping Weight Tool:** 1 lb.
- **Shipped Empty**

## Self-igniting Butane-powered Microtorch, Soldering Iron, Heat Tool

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2500°F/1300°C
- Self-igniting piezo electric ignition is easy to start and eliminates the need for lighter or matches
- Incorporates "trigger" switch with "pulldown" lock to meet Consumer Products Safety Commission (CPSC) Child Safety Requirements
- "Hands-free" slide lock for continuous use and instant off operation
- Ergonomic handle design ensures a non-slip grip
- Removable base for table-top or hand-held use
- 60 minute continuous run time with a full charge
- Durable self-contained, refillable plastic fuel tank
- Unique shutter lever to easily extinguish ignition flame if using optional soldering or hot air tip attachments
- Use to heat parts, ignite materials, melt plastic, shrink tubing, solder & desolder, terminate specialty connectors and more
- Refill with Master Ultratane Butane for best performance ([page 36](#))

# Butane-Powered Torches

## Microtorch MT-51, MT-51B & MT-51H



MT Series  
Microtorch MT-51

### MT Series Microtorch MT-51B

Included butane canister (10449) provides six fuel refills



### MT Series Microtorch MT-51H

Includes Hot Air Tip (35387) & Heat Reflector (35394) for heat shrink applications



### Microtorch MT-51

Model No.	Description
MT-51	Microtorch, table-top
MT-51B	Microtorch, table-top with 2 oz. butane (10449)
MT-51H	Microtorch, table-top includes hot air tip (35387) and 1" diameter heat shrink attachment (35394)

### Specifications

- **Approx. Flame Temp.** 2500°F
- **Fuel Tank:** Plastic, Built-in, Refillable
- **Approx. Run Time:** 2 hours
- **Dimensions:** 6.1" H x 3" W x 1.3" D
- **Tool Net Weight:** 5 oz.
- **Shipping Weight:** 1 lb.
- **Shipped Empty**

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Hand-held or Table-top Butane-powered Microtorch

- Built-in self-igniting system with safety lock
- "Hands-free" slide lock for continuous use and instant off operation
- Durable self-contained, refillable plastic fuel tank
- Wide, stable base is perfect for hands-free use
- Temperatures up to 2500°F/1300°C
- 2 hour continuous burn time, perfect for continuous heat applications
- Adjustable broad or pinpoint flame
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- MT-51B ships via ground transportation with no Hazmat charges
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more
- Refill with Master Ultratane Butane for best performance ([page 36](#))

# Butane-Powered Torches

Triggertorch™ MT-76 & MT-76K



**MT Series**  
Triggertorch MT-76K

4 tools in 1 — Open Flame Torch, Soldering Iron, Flameless Hot Air and Hot Knife in a rugged storage/carrying case



**MT Series**  
Triggertorch MT-76

3 tools in 1 — Open Flame Torch, Soldering Iron and Flameless Hot Air



**Flameless Heat Attachment**



**Heat Shrink Attachment**



**Soldering Tip Attachment**

Specifications	
▪ <b>Approx. Flame Temp.:</b> 2500°F	▪ <b>Shipping Weight Tool:</b> 1 lb.
▪ <b>Fuel Tank:</b> Plastic, Built-in, Refillable	▪ <b>Shipping Weight Kit:</b> 3 lbs.
▪ <b>Approx. Operating Time:</b> 2 hours	▪ <b>Shipped Empty</b>
▪ <b>Dimensions:</b> 6.5" H x 3.8" W x 1.3" D	
▪ <b>MT-76 Weight:</b> 8 oz.	

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Professional Quality, Hand-held or Table-top, Butane-powered, Self-igniting Triggertorch, Soldering Iron and Flameless Heat Tool

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2500°F/1300°C
- Self-igniting piezo electric ignition is easy to start and eliminates the need for lighter or matches
- MT-76 includes soldering tip and hot air tip for soldering up to 752°F/400°C and heating up to 932°F/500°C
- Durable self-contained, refillable plastic fuel tank with capacity for 2 hour run time
- Kit includes triggertorch, removable stand, 5" wire cutter, 5" needle nose pliers, soldering tip, hot air tip, shrink attachment, polyfoam cutter, hot knife tip, roll lead free solder, and stand with sponge packed in a durable plastic storage/carrying case
- Incorporates "trigger" switch with "pulldown" lock to meet Consumer Products Safety Commission (CPSC) Child Safety Requirements
- "Hands-free" slide lock for continuous use and instant off operation
- Unique shutter lever to easily extinguish ignition flame when using soldering or hot air tip attachments
- Ergonomic handle design ensures a non-slip grip
- Removable base for table-top or hand-held use
- Use to heat parts, ignite materials, melt plastic, shrink tubing, solder & desolder, terminate specialty connectors and more
- Refill with Master Ultratane Butane for best performance (page 36)

# Butane-Powered Torches

General Industrial Torch GT-70



General Industrial Torch GT-70	
Model No.	Description
GT-70	General Industrial Torch

Specifications	
▪ <b>Approx. Flame Temp.</b> 2500°F	▪ <b>Tool Net Weight:</b> 10.6 oz.
▪ <b>Fuel Tank:</b> Metal, Built-in, Refillable	▪ <b>Shipping Weight Tool:</b> 1 lb.
▪ <b>Approx. Run Time:</b> 30 min.	▪ <b>Shipped Empty</b>
▪ <b>Dimensions:</b> 6.5" H x 5" W x 1.8" D	

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Hand-held or Table-top, Butane-powered, Heavy-duty, General Industrial Torch

- Self-igniting piezo electric ignition is easy to start and eliminates need for lighter or matches
- Large capacity, built-in, durable, metal fuel tank for 30-minute continuous run time on a full charge
- Large sized adjustable blue flame accommodates heavy-duty industrial applications with temperatures up to 2500°F/1300°C
- Safety lock prevents unintentional ignition, locks for storage
- Removable base for table-top or hand-held use
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to braze with special alloy welding rods, heat and bend thin metals, loosen rusted bolts, pop dents out of metal, shrink and terminate heavy wall adhesive-lined tubing, solder and desolder and more
- Refill with Master Ultratane Butane for best performance (page 36)

Ultratane® Butane



**10449**  
(ships without Hazmat Charges)

**51773**

Ultratane Butane	
Model No.	Description
51773	5 1/8 oz. (145 gram) canister with universal tip adapter
10449	2 oz. (56.5 gram) canister with universal tip adapter

## For Use With All Master Butane-powered Products

- Recommended fuel for all Master butane-powered products
- Triple-refined formula reduces clogging of filters
- Special vapor pressure promotes consistent ignition
- Contains no CFC's
- Available in two convenient sizes: 5 1/8 oz. (145 gram), and 2 oz. (56.5 gram) canisters
- Model 10449 meets Limited Quantity Class Markings and can ship via ground transportation without hazardous material charges

Master PortaPro® Glue Gun Kit — GG-100K



## GG Series PortaPro Glue Gun GG-100K

Includes: glue gun, 4 tips, 8 general purpose 6" long glue sticks & manual packed in a rugged storage case. Case has slot to hold Master Butane (51773 not included)



## PortaPro Glue Gun Kit

Model No.	Description
GG-100K	PortaPro Glue Gun Kit

## Specifications

- **Approx. Operating Temp:** 392°F/200°C
- **Ramp Up Time:** 3-4 minutes
- **Recommended Glue Stick:** 1/2"
- **Glue Melt Rate:** up to 1.9 lbs. per hour
- **Approx. Run Time:** 140 minutes (full tank)
- **Fuel Capacity:** 20 ml.
- **Dimensions:** 8.4" L x 2.1" W x 8.0" H sec.
- **Tool Net Weight:** 14.8 oz. w/o fuel
- **Shipping Weight Tool:** 2 lbs.
- **Shipping Weight Kit:** 3 lbs.
- **Shipped Empty**

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Optional Accessories

Part No.	Description
35408	Standard general purpose tip — Dia. 4.47mm O.D.
35409	Needle extension tip — 7.8mm long Dia. 3.2mm O.D.
35410	Diagonal cut extension tip — 8.4mm long x 45° Dia. 4.74mm O.D.
35411	Spreader extension tip — 7.6mm(L) x 6.6mm(W) 0.50mm I.D. slot
35412	12 General purpose glue sticks 12" long x 1/2" dia.
35413	12 Carton closing glue sticks 12" long x 1/2" dia
35414	12 Woodworking glue sticks 12" long x 1/2" dia.
35454	20 lbs. General purpose glue sticks (approx. 290 sticks)
35455	20 lbs. Carton closing glue sticks (approx. 290 sticks)
35456	20 lbs. Woodworking glue sticks (approx. 290 sticks)

## Cordless, Butane-powered Hotmelt Glue Gun

- Use to bond corrugated materials, chipboard and wood, fasten plastics, light metals, textiles, shock absorbent packaging, capacitors, resistors, soldered parts, electrical potting/staking parts on PC boards and jumper wires, reseal products during packaging, and glue down carpeting
- Completely portable, lets you work almost anywhere
- Industrial power and durability
- One touch, fast piezo ignition
- Reaches operating temperature in less than 4 minutes
- 140 minutes continuous run time with a full charge
- Fuel view window indicates fuel level
- Built-in fold away stand
- Unlimited versatility
- Refill with Master Ultratane Butane for best performance (page 36)

# Butane-Powered Glue Guns

Master PortaPro® Glue Gun — GG-200



Easy to refill



Cordless operation is fast and convenient



GG Series  
PortaPro Glue Gun GG-200

## PortaPro Glue Gun

Model No.	Description
GG-200	PortaPro Glue Gun

### Specifications

- **Approx. Operating Temp:** 392°F/200°C (full tank)
- **Ramp Up Time:** 3-4 minutes
- **Recommended Glue Stick:** 1/2"
- **Glue Melt Rate:** up to .67 lbs. per hour
- **Approx. Run Time:** 120 minutes
- **Fuel Capacity:** 6 grams
- **Dimensions:** 6.75" L x 1.25" W x 6" H
- **Tool Net Weight:** 7.9 oz. w/o fuel
- **Shipping Weight Tool:** 2 lbs.
- **Shipped Empty**

**NOTE:** Users should independently evaluate the suitability of the product for their application.

## Optional Accessories

Part No.	Description
35412	12 General purpose glue sticks 12" long x 1/2" dia.
35413	12 Carton closing glue sticks 12" long x 1/2" dia.
35414	12 Woodworking glue sticks 12" long x 1/2" dia.
51773	5 1/2 oz. (145 gram) canister with universal tip adapter
10449	2 oz. (56.5 gram) canister with universal tip adapter

## Master PortaPro Glue Gun – GG-200

- Use to bond corrugated materials, chipboard and wood, fasten plastics, light metals, textiles, shock absorbent packaging, capacitors, resistors, soldered parts, electrical potting/staking parts on PC boards and jumper wires and glue down carpeting
- Completely portable, lets you work almost anywhere
- Industrial power and durability
- One touch, fast piezo ignition
- Reaches operating temperature in less than 4 minutes
- 120 minutes continuous run time with a full charge
- Fuel view window indicates fuel level
- Unique temperature control thermostat controls glue gun chamber temperature and regulates gas flow
- Lightweight (7.9 oz.)
- Refill with Master Ultratane Butane for best performance (page 35)

# 06

# Sealed Electrical Systems

Advantages of Heat-Sealed Electrical Connectors

Available in three styles:

**Proseal™**  
Crimp & heat-seal connectors

**Solderseal™**  
Solder & heat-seal connectors

**Multiseal™**  
Crimp, solder & heat-seal connectors



## Environmentally Sealed Connections Create Permanent Repairs

The past decade has seen the advent of sweeping technological advances in the automotive, fleet, and marine industries. Many of these advances involve improved electrical systems, controlled by miniature onboard computers. Consequently, small variations in voltage can significantly affect vehicle performance.

To combat these problems and increase longevity, the major manufacturers in these industries are using completely sealed electrical systems. Unfortunately, the repair and maintenance industry is lagging behind.

The integrity of sealed electrical harnesses is often breached when repairs are made with inferior, unsealed electrical connectors. Master Appliance has the solution.

The heat shrink connector is the innovative solution that allows the aftermarket to keep pace with changing technology. Each repair made with a heat shrink connector is individually protected from corrosion, contaminants and current leakage. This ensures that the original integrity of the wiring harness is maintained.

- Heavy Duty Trucking
- Marine & RV
- Plant Maintenance Departments
- OEM & Automotive Aftermarket
- Heavy Duty Equipment
- Oil Fields & Mining
- Municipalities & Military Bases



## Lead Free Heat Seal Wire Connector Jars

Proseal: CRIMP — SEAL			
AWG	Description	Jar QTY	SKU
<b>Butt Connectors</b>			
20-18	Butt Connector, Red	100	11540
16-14	Butt Connector, Blue	100	11541
12-10	Butt Connector, Yellow	60	11542

Solderseal: SOLDER — SEAL			
AWG	Description	Jar QTY	SKU
<b>Butt Connectors</b>			
20-18	Lead Free Butt Connector, Red	100	11543
16-14	Lead Free Butt Connector, Blue	100	11544
12-10	Lead Free Butt Connector, Yellow	60	11545

Multiseal: CRIMP — SOLDER — SEAL — The Ultimate Connector			
AWG	Description	Jar QTY	SKU
<b>Butt Connectors</b>			
20-18	Lead Free Butt Connector, Red	100	11546
16-14	Lead Free Butt Connector, Blue	100	11547
12-10	Lead Free Butt Connector, Yellow	60	11548



# Sealed Electrical Systems

## Lead Free Proseal™ Connector Assortment Kits



**10054**  
Proseal Butt Splice Connector Minipack



**10600**  
Assortment Proseal Connector Kit

### 10054 — Proseal Butt Splice Connector Minipack (3 items & 45 pieces)

AWG	Description	Kit QTY	Refill Jar
<b>Butt Connectors</b>			
20-18	Butt Connector, Red	20	<b>11540</b>
16-14	Butt Connector, Blue	20	<b>11541</b>
12-10	Butt Connector, Yellow	5	<b>11542</b>

### 10600 — Assortment Proseal Connector Kit (20 items & 115 pieces)

AWG	Description	Kit QTY	50pc Refill
<b>Ring Terminals</b>			
20-18	#6 Stud, Red	5	<b>10658</b>
20-18	#10 Stud, Red	5	<b>10659</b>
16-14	#8 Stud, Blue	5	<b>10648</b>
16-14	#10 Stud, Blue	5	<b>10649</b>
16-14	1/4" Stud, Blue	5	<b>10650</b>
16-14	3/8" Stud, Blue	5	<b>10652</b>
12-10	#8 Stud, Yellow	5	<b>10653</b>
12-10	#10 Stud, Yellow	5	<b>10654</b>
12-10	1/4" Stud, Yellow	5	<b>10655</b>
12-10	3/8" Stud, Yellow	5	<b>10657</b>
<b>Spade Terminals</b>			
20-18	#10 Stud, Red	5	<b>10665</b>
16-14	#10 Stud, Blue	5	<b>10663</b>
12-10	#10 Stud, Yellow	5	<b>10664</b>
<b>Butt Connectors</b>			
20-18	Butt Connector, Red	10	<b>10666</b>
16-14	Butt Connector, Blue	10	<b>10667</b>
12-10	Butt Connector, Yellow	10	<b>10668</b>
<b>Insulated Couplers</b>			
20-18	Female, .250 Tab, Red	5	<b>10669</b>
20-18	Male, .250 Tab, Red	5	<b>10672</b>
16-14	Female, .250 Tab, Blue	5	<b>10671</b>
16-14	Male, .250 Tab, Blue	5	<b>10673</b>

### Specifications

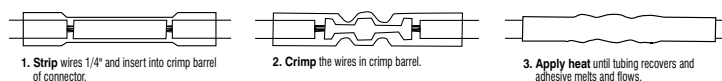
- **Temperature rating:** -67°F to 230°F (-55°C to 110°C)
- **Longitudinal change:** +1, -10%
- **Recovery temperature:** 275°F/135°C
- **Dialectic strength:** 900 Volts/Mil.
- **UL Voltage Rating:** 600 Volts
- **Water absorption:** <0.1%
- **Corrosion resistance:** Non-corrosive
- **Fungus Resistance:** Non-nutrient
- **Water absorption:** <0.1%

**Crimp** Mechanical reliability holds wires in place

**Seal** Durable insulation • Watertight connection



Crimp barrel inside



## High Quality Crimp & Heat-seal Connectors

- The finest "Crimp & Heat-Seal" connector on the market today. Better wire contact - Less voltage drop - Better current flow
- Seamless butt connectors & brazed seam rings and spades — Prevents opening of connector barrel for stronger crimp
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length, creating better insulation along with superior wire support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing — Allows visual inspection, prevents wire corrosion and provides a water and contaminant resistant seal
- Color-coded tubing with wire gauge imprint — Provides easy identification of the correct part for the job
- Superior integrity of electrical systems — Sealed electrical systems ensure the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **89 lbs tensile strength**

# Sealed Electrical Systems

## Lead Free Solderseal™ Connector Assortment Kits

### 11821 — Solderseal Butt Splice Connector Minipack (4 items & 55 pieces)

AWG	Description	Kit QTY	Refill Jar
<b>Butt Connectors</b>			
24-22	Butt Connector, Clear	10	<b>11840</b>
20-18	Butt Connector, Red	15	<b>11543</b>
16-14	Butt Connector, Blue	15	<b>11544</b>
12-10	Butt Connector, Yellow	15	<b>11545</b>

### 11822 — Solder seal Connector Kit (25 items & 135 pieces)

AWG	Description	Kit QTY	50pc Refill
<b>Ring Terminals</b>			
20-18	#6 Stud, Red	5	<b>11825</b>
20-18	#8 Stud, Red	5	<b>11826</b>
20-18	#10 Stud, Red	5	<b>11827</b>
20-18	1/4" Stud, Red	5	<b>11828</b>
16-14	#8 Stud, Blue	5	<b>11829</b>
16-14	#10 Stud, Blue	5	<b>11830</b>
16-14	1/4" Stud, Blue	5	<b>11831</b>
16-14	3/8" Stud, Blue	5	<b>11832</b>
12-10	#10 Stud, Yellow	5	<b>11833</b>
12-10	1/4" Stud, Yellow	5	<b>11834</b>
12-10	3/8" Stud, Yellow	5	<b>11835</b>
12-10	1/2" Stud, Yellow	5	<b>11836</b>
<b>Spade Terminals</b>			
20-18	#10 Stud, Red	5	<b>11837</b>
16-14	#10 Stud, Blue	5	<b>11838</b>
12-10	#10 Stud, Yellow	5	<b>11839</b>
<b>Butt Connectors</b>			
24-22	Butt Connector, Clear	5	<b>11840</b>
20-18	Butt Connector, Red	10	<b>11543 (100pc jar)</b>
16-14	Butt Connector, Blue	10	<b>11544 (100pc jar)</b>
12-10	Butt Connector, Yellow	5	<b>11545 (60pc jar)</b>
<b>Insulated Couplers</b>			
20-18	Female, .250 Tab, Red	5	<b>11844</b>
20-18	Male, .250 Tab, Red	5	<b>11845</b>
16-14	Female, .250 Tab, Blue	5	<b>11846</b>
16-14	Male, .250 Tab, Blue	5	<b>11847</b>
12-10	Female, .250 Tab, Yellow	5	<b>11848</b>
12-10	Male, .250 Tab, Yellow	5	<b>11849</b>

### Specifications

- **Temperature rating:** -67°F to 230°F (-55°C to 110°C)
- **Longitudinal change:** +1, -10%
- **Recovery temperature:** 275°F/135°C
- **Dialectic strength:** 500 Volts/Mil.
- **UL Voltage Rating:** 600 Volts
- **Water absorption:** <0.1%
- **Corrosion resistance:** Non-corrosive
- **Fungus Resistance:** Non-nutrient
- **Water absorption:** <0.1%

**Solder** Ultimate tensile strength • Superior conductivity

**Seal** Durable insulation • Watertight connection

## High Quality Solder & Heat-seal Connectors

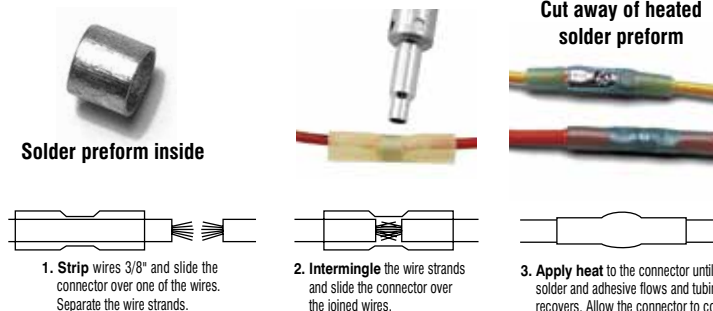
- High quality, sealed solder connection that takes the guesswork out of soldering water tight connections
- Low temperature pre-measured solder with flux for greater tensile strength and superior current flow
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length creating better insulation along with wire superior support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing — Allows visual inspection, prevents wire corrosion and provides a water and contaminant resistant seal
- Ensures the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **102 lbs tensile strength**



**11821**  
Solderseal Butt Splice Connector Minipack



**11822**  
Solder seal Connector Kit



Solder preform inside

Cut away of heated solder preform

# Sealed Electrical Systems

## Lead Free Multiseal™ Connector Assortment Kits



**11823**  
Multiseal Butt Splice Connector Minipack

11823 — Multiseal Butt Splice Connector Minipack (3 items & 50 pieces)			
AWG	Description	Kit QTY	Jar Refill
<b>Butt Connectors</b>			
20-18	Butt Connector, Red	20	<b>11546</b>
16-14	Butt Connector, Blue	20	<b>11547</b>
12-10	Butt Connector, Yellow	10	<b>11548</b>

11824 — Multiseal Connector Kit (20 items & 120 pieces)			
AWG	Description	Kit QTY	50pc Refill
<b>Ring Terminals</b>			
20-18	#6 Stud, Red	5	<b>11850</b>
20-18	#10 Stud, Red	5	<b>11851</b>
16-14	#10 Stud, Blue	5	<b>11852</b>
16-14	1/4" Stud, Blue	5	<b>11853</b>
16-14	3/8" Stud, Blue	5	<b>11854</b>
12-10	#10 Stud, Yellow	5	<b>11855</b>
12-10	1/4" Stud, Yellow	5	<b>11856</b>
12-10	3/8" Stud, Yellow	5	<b>11857</b>
12-10	1/2" Stud, Yellow	5	<b>11858</b>

<b>Spade Terminals</b>			
20-18	#10 Stud, Red	5	<b>11859</b>
16-14	#10 Stud, Blue	5	<b>11860</b>
12-10	#10 Stud, Yellow	5	<b>11861</b>

<b>Butt Connectors</b>			
24-22	Butt Connector, Clear	5	<b>11862</b>
20-18	Butt Connector, Red	10	<b>11546 (100pc jar)</b>
16-14	Butt Connector, Blue	15	<b>11547 (100pc jar)</b>
12-10	Butt Connector, Yellow	10	<b>11548 (60pc jar)</b>

<b>Insulated Couplers</b>			
20-18	Female, .250 Tab, Red	5	<b>11868</b>
20-18	Male, .250 Tab, Red	5	<b>11869</b>
16-14	Female, .250 Tab, Blue	5	<b>11866</b>
16-14	Male, .250 Tab, Blue	5	<b>11867</b>

### Specifications

- **Temperature rating:** -67°F to 230°F (-55°C to 110°C)
- **Longitudinal change:** +1, -10%
- **Recovery temperature:** 275°F/135°C
- **Dialectic strength:** 900 Volts/Mil.
- **UL Voltage Rating:** 600 Volts
- **Corrosion resistance:** Non-corrosive
- **Fungus Resistance:** Non-nutrient
- **Water absorption:** <0.1%

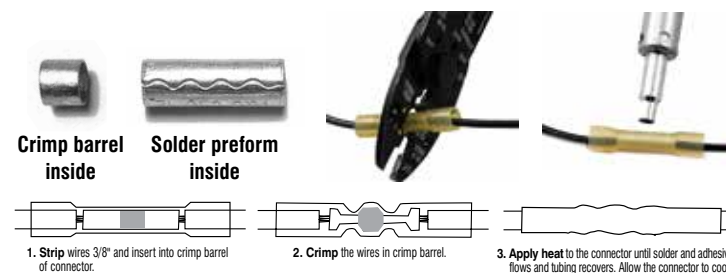
**Crimp** Mechanical reliability holds wires in place

**Solder** Ultimate tensile strength • Superior conductivity

**Seal** Durable insulation • Watertight connection



**11824**  
Multiseal Connector Kit



## High Quality Crimp, Solder & Heat-seal Connectors

- Crimped for mechanical reliability, soldered for strength and conductivity, and heat sealed for superior durability
- Low temperature pre-measured solder with flux for greater tensile strength and superior current flow
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Prevents opening of connector barrel for stronger crimp
- Heat shrink tubing does not reduce in length creating better insulation along with superior wire support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion, and provides a water and contaminant resistant seal

- Color-coded tubing with wire gauge imprint — Provides easy identification of the correct part for the job
- Superior integrity of electrical systems — Sealed electrical systems ensure the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **103 lbs tensile strength**

# Sealed Electrical Systems

## Heat-Shrink Tubing Assortment Kits



**10061**  
Thin Wall Flexible Shrink Tubing Minipack



**10062**  
Thin Wall Flexible Shrink Tubing Kit



**10063**  
Flexible Adhesive-Lined Shrink Tubing Minipack



**10064**  
Flexible Adhesive-Lined Shrink Tubing Kit



**10065**  
Flexible Adhesive-Lined Shrink Tubing Kit

## Thin Wall Flexible Heat-shrink Tubing with No Adhesive

- Polyolefin, 2 to 1 shrink ratio
- Highly flexible for conforming to irregular shapes
- Self-extinguishing UL224 (except clear)

### Specifications

- MIL-DTL-23053/5 Class 1 (colors)
- Class 2 (clear)
- UL E35506 (except clear), CSA LR31929 (except clear)
- Recovery temp.: 250°F/121°C
- Dielectric strength: 900 Volts/Mil.
- Continuous oper. temp.: -67°F to 275°F/-55°C to 135°C



## Dual Wall Flexible Heat-shrink Tubing with Adhesive Lining

- Polyolefin, 3 to 1 shrink ratio
- Highly flexible for conforming to irregular shapes
- Self-extinguishing UL224 (except clear)
- Internal layer of thermo-plastic adhesive provides a barrier against contaminants

### Specifications

- MIL-DTL-23053/4 Class 3
- UL E157227
- Recovery temp.: 250°F/121°C
- Dielectric strength: 700V/Mil.
- Continuous oper. temp.: -67°F to 230°F/-55°C to 110°C

10061 — Thin Wall Flexible Shrink Tubing Minipack (9 items & 39 pieces)		
Description	Kit QTY	
3/16" pre-shrink I.D., 6" length, Black	5	
3/16" pre-shrink I.D., 6" length, Red	5	
1/4" pre-shrink I.D., 6" length, Black	5	
1/4" pre-shrink I.D., 6" length, Blue	5	
3/8" pre-shrink I.D., 6" length, Black	5	
3/8" pre-shrink I.D., 6" length, Yellow	5	
1/2" pre-shrink I.D., 6" length, Black	4	
3/4" pre-shrink I.D., 6" length, Black	3	
1" pre-shrink I.D., 6" length, Black	2	

10062 — Thin Wall Flexible Shrink Tubing Kit (9 items & 103 pieces)		
Description	Kit QTY	
3/16" pre-shrink I.D., 6" length, Black	20	
3/16" pre-shrink I.D., 6" length, Red	15	
1/4" pre-shrink I.D., 6" length, Black	20	
1/4" pre-shrink I.D., 6" length, Blue	10	
3/8" pre-shrink I.D., 6" length, Black	10	
3/8" pre-shrink I.D., 6" length, Yellow	10	
1/2" pre-shrink I.D., 6" length, Black	10	
3/4" pre-shrink I.D., 6" length, Black	5	
1" pre-shrink I.D., 6" length, Black	3	

10063 — Flexible Adhesive-Lined Shrink Tubing Minipack (6 items & 24 pieces)		
Description	Kit QTY	
1/8" pre-shrink I.D., 6" length, Black	5	
1/4" pre-shrink I.D., 6" length, Black	5	
3/8" pre-shrink I.D., 6" length, Black	5	
1/2" pre-shrink I.D., 6" length, Black	4	
3/4" pre-shrink I.D., 6" length, Black	3	
1" pre-shrink I.D., 6" length, Black	2	

10064 — Flexible Adhesive-Lined Shrink Tubing Kit (18 items & 48 pieces)		
Description	Kit QTY	
1/8" pre-shrink I.D., 6" length, Black	5	
1/8" pre-shrink I.D., 6" length, Clear	3	
1/8" pre-shrink I.D., 6" length, Red	3	
3/16" pre-shrink I.D., 6" length, Black	5	
3/16" pre-shrink I.D., 6" length, Clear	2	
3/16" pre-shrink I.D., 6" length, Red	2	
1/4" pre-shrink I.D., 6" length, Black	5	
1/4" pre-shrink I.D., 6" length, Clear	2	
1/4" pre-shrink I.D., 6" length, Red	2	
3/8" pre-shrink I.D., 6" length, Black	5	
3/8" pre-shrink I.D., 6" length, Clear	2	
3/8" pre-shrink I.D., 6" length, Red	2	
1/2" pre-shrink I.D., 6" length, Black	3	
1/2" pre-shrink I.D., 6" length, Clear	2	
1/2" pre-shrink I.D., 6" length, Red	2	
3/4" pre-shrink I.D., 6" length, Black	1	
3/4" pre-shrink I.D., 6" length, Clear	1	
3/4" pre-shrink I.D., 6" length, Red	1	

10065 — Flexible Adhesive-Lined Shrink Tubing Kit (12 items & 66 pieces)		
Description	Kit QTY	
1/8" pre-shrink I.D., 6" length, Black	10	
1/8" pre-shrink I.D., 6" length, Clear	10	
3/16" pre-shrink I.D., 6" length, Black	8	
3/16" pre-shrink I.D., 6" length, Clear	8	
1/4" pre-shrink I.D., 6" length, Black	6	
1/4" pre-shrink I.D., 6" length, Clear	6	
3/8" pre-shrink I.D., 6" length, Black	4	
3/8" pre-shrink I.D., 6" length, Clear	4	
1/2" pre-shrink I.D., 6" length, Black	3	
1/2" pre-shrink I.D., 6" length, Clear	3	
3/4" pre-shrink I.D., 6" length, Black	2	
3/4" pre-shrink I.D., 6" length, Clear	2	



**35084**  
Crimping Tool,  
Ratcheting, Full Cycle

### Hand Tool For Heat-Sealed Electrical Connectors

Model No.	Description
35084	Crimp Tool, Ratcheting, Full Cycle

### Ratcheting Crimper

- Crimps 22-18, 16-14 and 12-10 AWG size connectors
- Rounded crimp die area for insulated terminals
- Industry standard color-coded crimp numbers for easy size identification
- Full-cycle ratcheting handle ensures a complete crimp
- Made from heat-treated steel for long life and reliability
- Cushioned handle for user comfort

### Master Heat Tools

Heat has many industrial applications. The proper use of the right heat technology and the right product are necessary to achieve optimum results in each application.

Master is continually developing new products and techniques to meet the demands of new applications. Master Heat guns are designed and constructed to provide our customers with dependable, cost-effective ways to apply heat properly for specific jobs.

As a leader with over fifty-five years of experience in the industry, the Master Appliance name assures its customers of an uncommon expertise in heat technology, quality products and unsurpassed service.

Our original heat gun met the heating needs of the maintenance, repair, operation and production applications of its time. Today's Master Heat Tools are designed with expanded capabilities, which make it easy to work with the growing range of new materials and processes being developed by industry.

Master Heat Tools are used for drying, heating, welding, shrinking, soldering and de-soldering as well as a variety of other applications. Wherever heat is the need, Master has the answer.

Because each application is unique, the Master Heat Tool line offers options such as varying temperatures and air flow, a choice of nozzle configurations, attachments and voltage/plug combinations to meet your needs.

The introduction of new plastics, adhesives and other materials is a continuous process. The range of options and attachments offered by Master Heat Tools enables you to use the newest materials and techniques while relying on the traditional Master quality and durability.

Master is always here to help. When you're considering a new application, material or process, call Master Appliance for professional, efficient and courteous assistance.

### Applications/Processes

Master Heat Tools are being used for hundreds of applications and processes throughout industry including:

- Activate adhesives and potting compounds
- Bend and form plastics and plastic laminates
- Cure and set adhesives
- Defrost freezers and frozen coils
- Desolder backs of printed circuit boards to thru-hole components
- Dry body filler
- Dry conformal coatings on circuit boards
- Dry parts
- Expand metals
- General heating and drying applications
- Manual Prepreg Layup
- Post Heat Vinyl Wrap
- Preheat flux
- PVC bending
- Remove pin stripping
- Remove dents in fiberglass and other materials
- Remove/install plastic autobody panels
- Remove windshield caulking
- Shrink and terminate environmental splices
- Shrink and terminate heat-shrinkable insulated solder preforms
- Shrink heat-shrinkable anti-static film
- Shrink heat-shrinkable molded parts
- Shrink heavy gauge shrink packaging
- Shrink heavy wall and adhesive-lined tubings
- Smooth vinyl tops
- Solder and desolder
- Spot dry paint
- Stretch vinyls
- Strip paint
- Vinyl repair
- Vehicle wrap installation and post heating
- Composite hand layup

*New applications and processes which require heat are discovered everyday. Users should independently evaluate the suitability of the product for their application. As with all electrical and butane-powered tools, for your safety, read the instruction manual before using. Product specifications are subject to change without notice.*

### Master Heat® Tool Factory Warranty

#### One Year Warranty

Every Master Heat Tool comes with a one year limited warranty

Master Heat Tools are carefully tested and inspected before being shipped from the factory. We warrant our products to be free from defects in materials and workmanship, under normal use and service, for one year from the date of purchase. In the event of a defect in materials or workmanship we will either repair or replace, at our option, without charge any part which in our judgement shows evidence of such defect.

Warranty does not apply to wearable items such as attachments, brushes, heating elements, soldering tips, hot air tips, burners or ejectors, which require periodic replacement, nor does it apply if the heat tool has been misused, abused, tampered with or altered.

At the end of the warranty period, Master Appliance shall be under no further obligation, expressed or implied. Master Appliance assumes no responsibility for, and this warranty shall not cover, any incidental or consequential damages from any defect in products or their use.

This warranty gives you specific rights. You may also have other rights which may vary from state to state. Warranty information is included within the Instruction Manual for each product or may be obtained by contacting Master's Customer Service Department at 800-558-9413, 262-633-7791 or [www.MasterAppliance.com](http://www.MasterAppliance.com).

*Master Heat Tools are sold worldwide through a network of Authorized Stocking Distributors. Trained Sales and Customer Service Representatives, located at our headquarters and throughout the world, insure fast personal service. Contact us for your nearest stocking distributor or sales representative. Visit our website for up-to-date information on products, accessories, parts, warranty and repair service.*