

THE MULTI-USE STEINEL
VARIABLE TEMPERATURE
ELECTRONICALLY CONTROLLED
HEAT GUN

TEMPERATURE RANGE 212° F to 1100° F

**OPERATOR'S
USE & CARE
MANUAL**

Read this use & care
manual before using,
and keep for future
reference.

**Save this
Manual.**

STEINEL[®]
HL
1800 E



Listed
Heat
Gun



0491

Made in West Germany

UL WARNING Read this instruction book before using. To reduce risk of fire or electric shock, do not expose to rain or moisture. Store indoors. When servicing, use only identical replacement parts. When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. This Heat Gun operates at 1100° F with no visual indication of temperature (no flame). The hot airstream at the outlet nozzle will burn flesh. Do not turn on Heat Gun with hand in front of nozzle. **DO NOT USE NEAR COMBUSTIBLE LIQUIDS.** **DO NOT USE FOR:** • Heating gas engines • Heating car batteries • Thawing refrigerator equipment

Specifications

Temperature	Variable from 212° F to 1100° F
Watts	1500W
Weight	1.5 lbs.
Supply Voltage	120 V AC
Air Flow	14.8 cubic feet/minute
Amps	12.5

Cautions

1. This heat gun can produce up to 1100° of flameless heat at the nozzle. Do not direct air stream at clothing, hair or other body parts. Do not use as a hair dryer.
2. Do not use near flammable liquids or in an explosive environment (fumes, gases or dust). Remove materials or debris, that may become ignited, from work area.
3. Always hold tool by plastic enclosure. The metal nozzle requires approximately 20 minutes to cool to where it can be touched. Do not touch nozzle or accessory tips until cool.
4. Do not store tool until nozzle has cooled to room temperature. Place tool in a clear area away from combustible materials while cooling.
5. Do not cut off air flow by placing nozzle too close to workpiece. Keep intake vents clean and clear of obstructions.
6. Place tool on a level surface with the support stand firmly in place when tool is not hand held. Place cord in a position that won't cause tipping.
7. Do not leave tool unattended while running or cooling down.
8. Keep a fully charged fire extinguisher nearby.
9. Do not direct air flow directly on glass.
10. Shield materials around the heated area to prevent damage or fire.
11. Use only with 120V AC voltage.
12. Do not use in wet conditions.
13. Not to be used by children. This is not a toy and should be respected.
14. Do not use in bath or over water.
15. Safety glasses should be worn when using this tool.
16. For stripping paint, see detailed instructions in this manual.
17. It is recommended that leather gloves be worn when using a Heat Gun.

WARNING!

This tool is capable of producing temperatures up to 1100° F of flameless heat at the nozzle. ALWAYS:

- Direct the heat away from yourself and others.
- Prevent ignition of combustible materials on or near the workpiece.
- Prevent blockage of intake and nozzle openings.
- Keep a fully charged fire extinguisher on hand.
- Allow the nozzle and accessory tips to cool to room temperature before storage.

IMPORTANT SAFETY INSTRUCTIONS READ THESE INSTRUCTIONS

WARNING: Hidden areas such as behind walls, ceilings, floors, soffit boards, and other panels may contain flammable materials that could be ignited by the heat gun when working in these locations. The ignition of these materials may not be readily apparent and could result in property damage and injury to persons. Do not use if in doubt about this hazard. When working in these locations, keep the heat gun moving in a back-and-forth motion. Lingered or pausing in one spot could ignite the panel or the material behind it. The Heat Gun should be used on LOW temperature which is approximately at dial setting number 3.

Paint Stripping

WARNING: Extreme care should be taken when stripping paint. The peelings, residue and vapors of paint may contain lead, which is poisonous. Any pre-1977 paint may contain lead and paint applied to homes prior to 1950 is likely to contain lead. Once deposited on surfaces, hand to mouth contact can result in the ingestion of lead. Exposure to even low levels of lead can cause irreversible brain and nervous system damage; young and unborn children are particularly vulnerable.

Before beginning any paint removal process you should determine whether the paint you are removing contains lead. This can be done by your local health department or by a professional who used a paint analyzer to check the lead content of the paint to be removed.

LEAD-BASED PAINT SHOULD ONLY BE REMOVED BY A PROFESSIONAL AND SHOULD NOT BE REMOVED USING A HEAT GUN.

Persons removing paint should follow these guidelines.

1. Move the work piece outdoors. If this is not possible, keep the work area well ventilated. Open the windows and put an exhaust fan in one of them. Be sure the fan is moving the air from inside to outside.
2. Remove or cover any carpets, rugs, furniture, clothing, cooking utensils and air ducts.
3. Place drop cloths in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats.
4. Work in one room at a time. Furnishings should be removed or placed in the center of the room and covered. Work areas should be sealed off from the rest of the dwelling by sealing doorways with drop cloths.
5. Children, pregnant or potentially pregnant women and nursing mothers should not be present in the work area until the work is done and all clean up is complete.
6. Wear a dust respirator mask or a dual filter (dust and fume) respirator mask which has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSH), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beards and facial hair may keep masks from sealing properly. Change filters often. **DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.**
7. Use caution when operating the heat gun. Keep the heat gun moving as excessive heat will generate fumes which can be inhaled by the operator.
8. Keep food and drink out of the work area. Wash hands, arms and face and rinse mouth before eating or drinking. Do not smoke or chew gum or tobacco in the work area.
9. Clean up all removed paint and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surface where paint or dust is clinging. **DO NOT SWEEP, DRY DUST OR VACUUM.** Use a high phosphate detergent or trisodium phosphate (TSP) to wash and mop areas.
10. At the end of each work session put the paint chips and debris in a double plastic bag, close it with tape or twist ties, and dispose of properly.
11. Remove protective clothing and work shoes in the work area to avoid carrying dust into the rest of the dwelling. Wash work clothes separately. Wipe shoes off with a wet rag that is then washed with the work clothes. Wash hair and body thoroughly with soap and water.

SAVE THESE INSTRUCTIONS

Double Insulated Tools

Tools marked with the words "Double Insulated" are equipped with a two prong plug. These tools have a special insulation system that complies with applicable standards of both Underwriter's Laboratories, Inc. and Canadian Standard Association. They do not require grounding.

Extension Cords

Double insulated tools, like this one, have two prong cords, and can use either a two or three prong extension cord. As the distance from the supply outlet increases, however, heavier gauge extension cords are required.

The use of extension cords of inadequate size wire causes a serious drop in voltage and loss of power.

Protect the cord from damage. Keep cords away from excessive heat, sharp edges and damp or wet areas. Repair or replace damaged extension cords before using.

Ext. Cord Length	Wire Size
40 Ft.	16
85 Ft.	14
100 Ft.	12
170 Ft.	10
270 Ft.	8
400 Ft.	6
650 Ft.	4

Warranty

Steinel heat guns conform with legal requirements and have been thoroughly inspected and tested before leaving the manufacturing facility. They are warranted to be free of defects from workmanship and materials for a period of ONE YEAR from date of original purchase. Should any trouble develop during this one-year-period, return the COMPLETE tool, freight prepaid, to the factory. If inspection shows the trouble is caused by defective workmanship or material, Steinel will repair (or, at our option, replace) without charge.

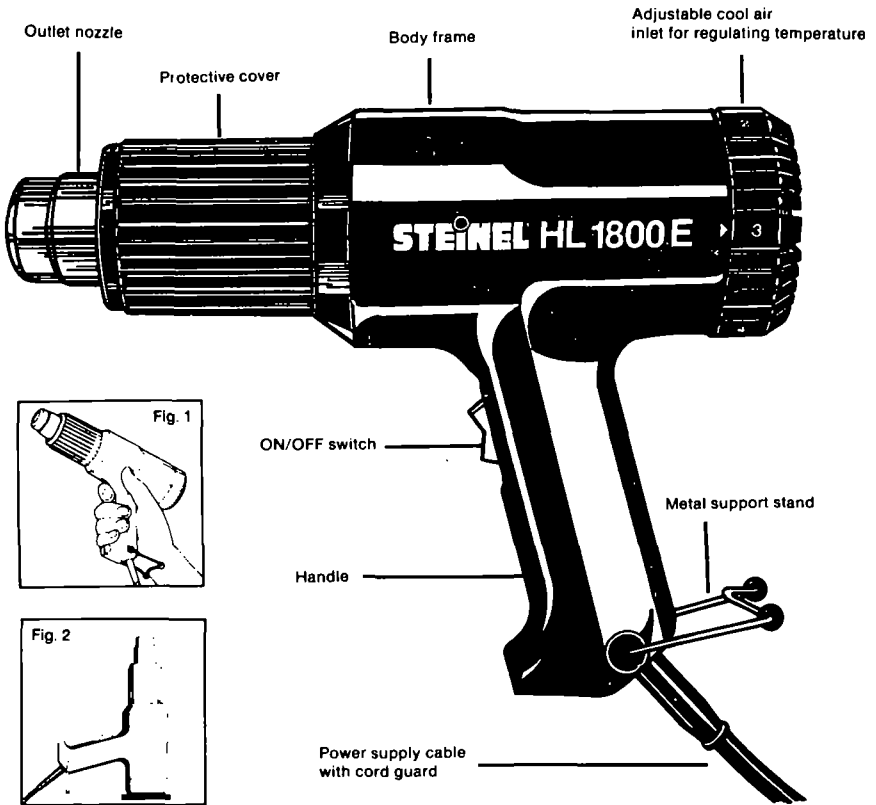
This warranty does not apply where: (1) repairs or attempted repairs have been made by others; (2) repairs required because of normal wear and tear; (3) the tool has been abused, misused, or improperly maintained, or; (4) alterations have been made to the tool. No other warranty, written or verbal, is authorized.

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Operating Instructions

To operate the Steinel HL1800E Model Heat Gun, plug the cord into a 120V A.C. power source. Be sure the power switch is in the OFF position.

The HL1800E has a two position main power switch. Be sure the unit is pointed away from yourself and materials when turning the unit on.

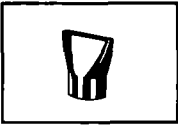
The next step is to adjust the temperature to the desired setting by turning the adjustable cool air inlet at the rear of the unit. A setting of 1 will be the lowest temperature (212° F) and a setting of 5 will be the highest temp (1100° F). No precise temperature designation is assigned to numbers 2, 3, and 4.

The unit may be used in a hand held position (Fig. 1) or in a hands free, upright position (Fig. 2) on a flat level surface. When using the unit in the upright position, the plastic stand wheel should also be inserted in the Adjustable cool air inlet for additional support. When using the unit in the upright position, be sure the cord is placed in such a position that it will prevent tipping the heat gun over, pulling the heat gun off the work surface or causing tripping over the cord.

The Heat Gun provides a low velocity stream of hot air providing rapid heating for applications such as stripping paint, thawing frozen pipes, forming plastics, soldering copper pipe and applying heat shrinkable tubing. The proper amount of heat for each application is dependent upon temperature range selected (See "Switch"), distance between nozzle and workpiece and length of time heat is applied. The recommended procedure is to experiment with scrap materials and start with lowest temperature range. Use care in approaching the work until the proper combination of heat, distance and time of application has been obtained. It is generally best to use a gentle back and forth motion when applying heat unless it has been determined that a concentrated heat is desirable.

Accessories

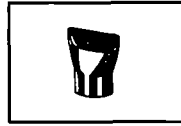
For Specific Tasks



07010
50 mm (2") Surface Nozzle
 Provides an even air distribution on small surfaces.



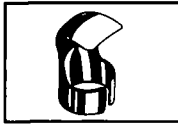
07020
75 mm (3") Surface Nozzle
 Provides an even air distribution on large surfaces.



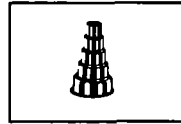
07030
50 mm (2") Window Nozzle
 Nozzle with reflector to direct air flow away from the glass to the frame.



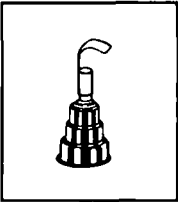
07040
75 mm (3") Window Nozzle
 Nozzle with reflector to direct air flow away from the glass to the frame.



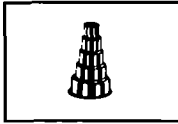
07050
39 mm (1 1/2") Reflector Nozzle
 Reflects heat around a surface such as soldering copper pipe, bending PVC pipe, and heat shrink tubing.



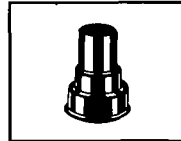
07060
9 mm (3/8") Reduction Nozzle
 Provides a totally concentrated pin point air flow. Use only with models HL1800E and HL2000P.



07061
9 mm (3/8") Reflector Nozzle
 For small diameter shrink tube applications. Use only with models HL1800E and HL2000P.



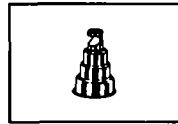
07070
14 mm (1/2") Reduction Nozzle
 Provides a totally concentrated air flow. Use only with models HL1800E and HL2000P.



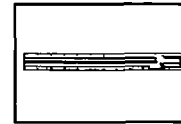
07080
20 mm (3/4") Reduction Nozzle
 Provides a totally concentrated air flow.



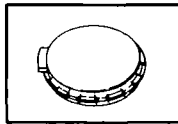
07300
75 mm (3") Reflector Nozzle
 Reflects heat around a surface such as soldering copper pipe, bending PVC pipe and heat shrink tubing.



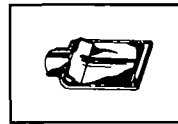
07460
14 mm (1/2") Reflector Nozzle
 Specially designed tip to provide efficient and quick heat to solder sink wire connectors. Use only with models HL1800E and HL2000P.



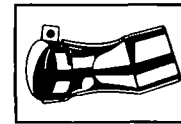
07220
Styrofoam Cutting Blade (5" Long)
 For making a clean cut in styrofoam. To be used with item 07060



07210
75 mm (3") Heat Disc
 Teflon coated disc for heating PVC pipe for butt welding. To be used with item 07070.



07470
40 mm (1 1/2") Split Nozzle
 For lap welding PVC sheeting and roofing material. To be used with item 07070.



07510
40 mm (1 1/2") Angle Silt Nozzle
 Specially designed angle silt nozzle for efficiently lap welding single ply roofing materials. Use only with models HL1800E and HL2000P.

Accessories Cont'd

Special nozzles for plastic welding:



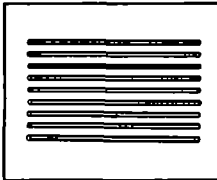
**07090
Plastic Welding Nozzle**
For working with flexible plastic welding wire. To be used with Item 07060.



**07100
20 mm (3/4") Slit Nozzle**
For lap welding plastic materials. To be used with Item 07060.



**07200
Plastic Welding Rod Nozzle**
Provides concentrated air flow to melt plastic welding rods. To be used with Item 07060.



Plastic Welding Rods
16 pieces 9" long, 1/8" dia.
— LDPE **07330**
— PVC **07310**
— PP **07340**
— ABS **07420**

Hints On Heat Gun Uses

Forming and shaping plastic materials

- Soften PVC pipe and other plastic materials for bending and shaping
- Soften vinyl floor coverings and around mouldings
- Soften formica coverings for shaping on rounded edges

Soldering

- Soldering copper pipe up to 3/4". Can use 90/10 solder
- Activate solder and wire connectors

Drying

- Quick drying of automotive body fillers
- Drying paint samples
- Drying plaster filling compounds
- Activate solder and wire connectors

Thawing

- Thaw frozen water pipes
- Thaw frozen locks

Shrinking

- Shrinking shrink tube insulators
- Heat shrink PVC tubes
- Heat shrink packaging wrap

Roofing

- Heating Modified Bitumen

Removal of adhesives

- Activating Heat sensitive adhesives
- Removal of pressure sensitive stickers
- Removal of flooring adhesives

Other Uses

- Fiberglass work
- Wax removal on skies and surfboards
- Apply hot patches
- Paint stripping
- Softening hardened window glazing

CAUTION:

It is recommended that the user experiment on scrap materials before using for a specific task.