

EXTERNAL HEATERMATE

ESTEAM'S HEATERMATE

USER'S MANUAL and WARRANTY

INTRODUCTION

All users must read and understand this manual completely before operating the Heatermate. This manual will provide the users with the knowledge required to operate the Heatermate safely, understand how to properly operate and maintain the Heatermate, and ensure that the equipment operates at its maximum performance level. Always maintain this manual in legible conditions adjacent to the Heatermate, or place in a secure location for future reference. Any question pertaining to the operation or servicing of this unit should be directed to your nearest Esteam distributor. The manual is written specifically for the Esteam Heatermate units manufactured by:

Esteam Manufacturing

104, 3750-19 Street NE

Calgary, AB.

Canada T2E 6V2

Information in this manual is subject to change without notice and does not represent commitment on the part of Esteam Manufacturing or its parent or affiliated companies.

TECHNICAL SPECIFICATIONS

Weight 12 lbs.

Heater 120 VAC 60HZ 1850W

Safety, Warnings & Precautions

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING THE HEATERMATE

The Esteam Heatermate is intended for commercial use only. This heater is intended for providing hot water solutions for the purpose of cleaning.

It is not designed for providing hot water for food, cooking, or other uses.

Alteration or changes to the Heatermate may result in injury or fire. Repair and maintenance must be performed by a qualified technician.

Minimum of 100 psi is required to operate the Heatermate, DO NOT exceed working pressure of 1000 psi.

This Heatermate is an electrical appliance. Care must be taken to reduce the risk of electrical shock.

To reduce the risk of property damage or injury, repairs to electrical systems should only be performed by experienced technicians. Contact your distributor for assistance. Unplug Heatermate power cord from outlet before performing any repairs. Part replacement with OEM parts only.

Do not use the Heatermate in standing water or on wet surfaces. Do not store the Heatermate in wet conditions.

The Heatermate shall be grounded while in use to protect the operator from electrical shock, The Heatermate is provided with a three-conductor cord and a three-contact grounding plug to fit the proper grounding type receptacles. **Never connect this wire to other than the grounding pin of the attachment plug.**

The Heatermate is for use on a nominal 120-volt circuit which has a grounding plug. Make sure that the Heatermate is connected to an outlet having the same configuration as the plug. The Heatermate will draw between 14 and 15 Amps.

No plug adapter should be used with this Heatermate

The power cord attached to the Heatemate is properly sized to handle the electrical load of the Heatermate and properly grounded as describe above.

Any extension cords used with this Heatermate must be similarly sized or greater load rating and grounded to ensure safe operation.

Do not unplug the power cord by pulling on the cord. Grasp the plug end when unplugging the cord. Do not pull the Heatermate by the cord, If the cord or plug is damaged, do not use until repairs have been performed by a qualified technician.

Do not use the Heatermate with any leakage. Internal wiring must not become wet from leaks as this may result in electrical shock, or damage to the Heatermate. If the Heatermate is leaking internally or becomes wet disconnect electrical power cord before approaching or touching the Heatermate. Make proper repairs and ensure Heatermate is dry before putting it back into service.

This Heatermate must be protected from conditions which may cause damage any of the components. Place unit in area where water will not cause damage or use drop cloth to protect surfaces.

Freezing of water in the Heatermate will cause damage and will void all warranties. Store, transport, and use the Heatermate only in temperatures above freezing. If the Heatermate cannot be stored or transported in a non-freezing environment, then it must be protected against freezing damage. This can be accomplished by either one of the two following processes:

Frist option is to remove the water from the Heatermate by running compressed air through the Heatermate to blow out the water. When putting the Heatermate back into use it must be filled with water or cleaning solution before turning on the power.

Second option is to replace the water/cleaning solution in the Heatermate with an anti-freeze solution, by pump anti-freeze solution through the Heatermate. Anti-freeze solution must be completely flushed from the Heatermate before returning it to service.

Solvent-based or water-based solutions containing solvents will cause damage or possible fire and must not be used in the Heatermate.

High pressure hoses may rupture if worn or damaged. Pin hole leaks may result in fluid jets. To avoid damage or injury, do not use high pressure solution hoses if the covering is cut, bulging, abraded, has holes, leaking or otherwise damaged. Examine the high-pressure solution hoses daily and replace or repair the hoses as needed.

Hose connection and other surfaces may become hot. Allow the Heatermate to properly vent or radiate excessive heat away. Do not cover the Heatermate or place it in a non-vented enclosed area when in use.

Keep pets and children away from the Heatermate while in use, and until all surfaces are cool to the touch. Always wear appropriate work clothing and safety equipment when operating the Heatermate.

Set Up & Operation

Follow all of the instructions for using your Ninja or E600 machine. Make sure to place the Heatermate on the floor on a level surface away from stairways or places that it may fall. Make sure the Heatermate is in a well-ventilated area to allow excessive heat to dissipate. Also place it where any spillage or leaks will not damage flooring or put proper protection beneath the Heatermate.

Using the 5' high pressure pulse hose that comes with the Heatermate, connect the high-pressure pulse hose from the heater to the Ninja, then attach the high-pressure solution hose from the Heatermate to the cleaning tool.

Plug the power cord of the Heatermate into a separate circuit that is used for the cord that powers the Ninja or E600. The Heatermate will need to be on a separate 15 Amp circuit.

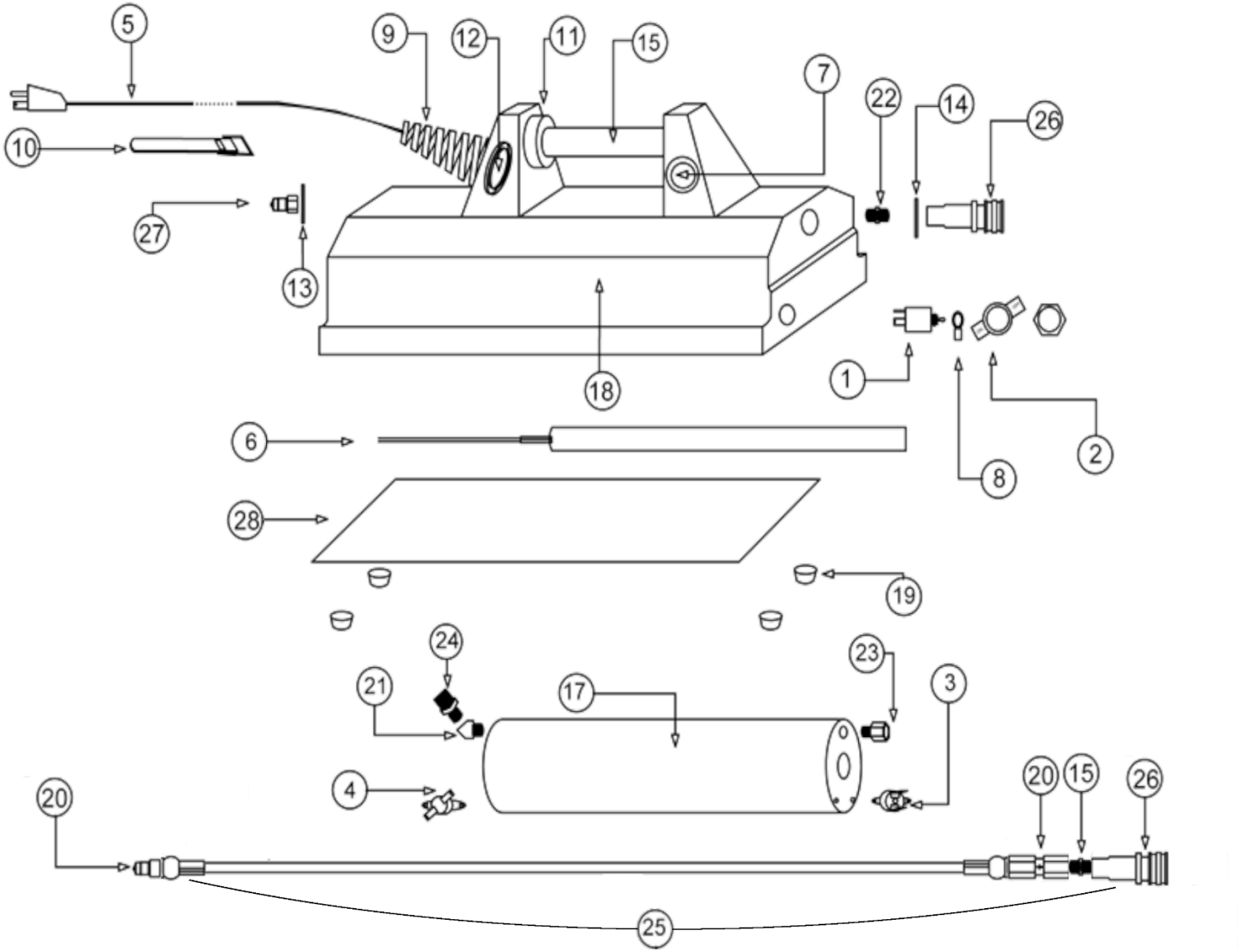
To prevent damage to the Heatermate, the Heatermate must have water in it before it is turned **ON.**

Turn the Heatermate on and allow it to come to temperature (about 3 to 5 minutes). The light will come on when the Heatermate switch is turned on and has power.

While the Heatermate allows for maximum internal operating temperatures of approximately 190°F, the temperature of the cleaning solution delivered to the tool will vary depending on several factors. These include the temperature of the solution being supplied to the Heatermate, the flow rate of the tool, the length of the hose being used, and other factors.

Shut Down

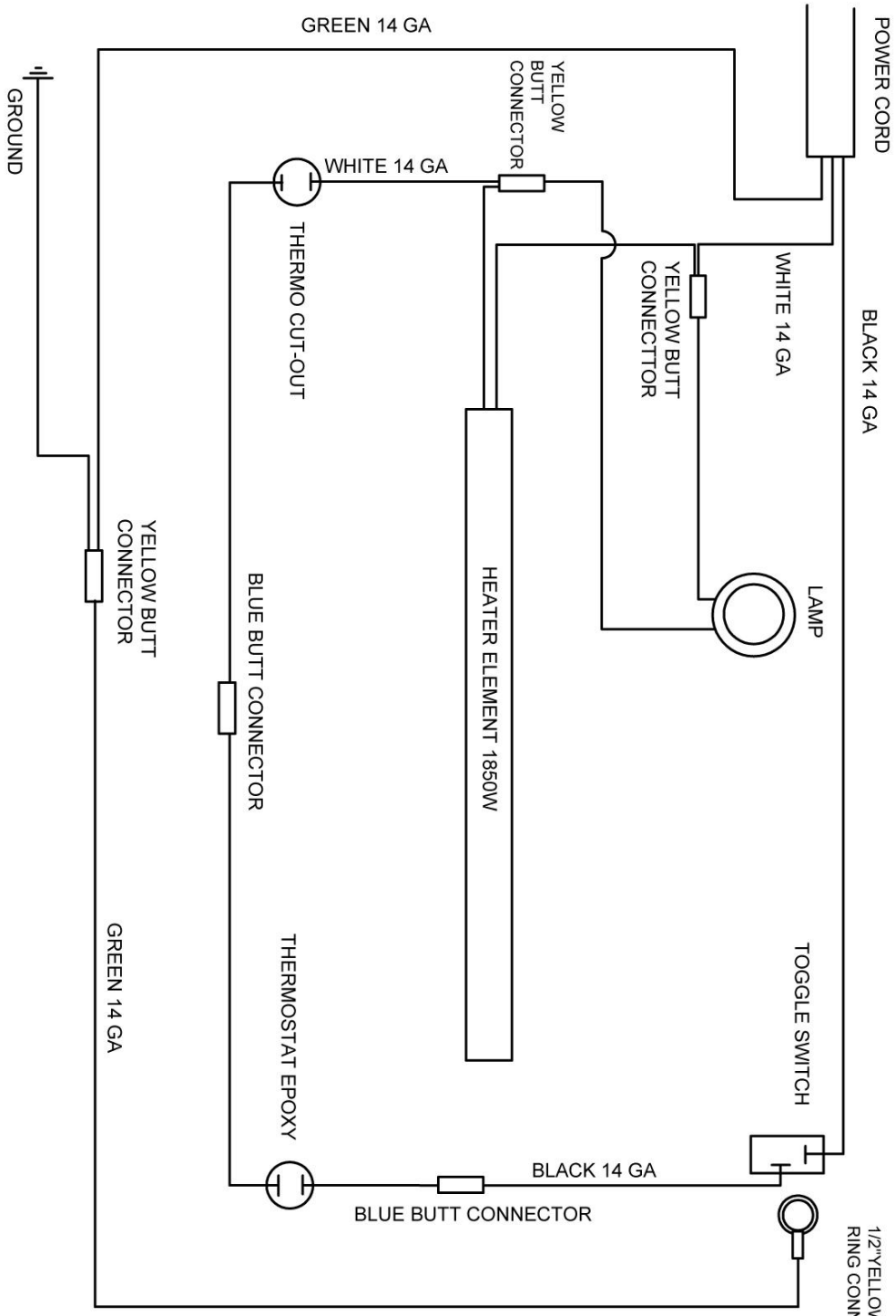
- Turn the Heatermate off before finishing each job and allow cooler solution to flow through the Heatermate. This will allow the water to cool the Heatermate as you finish the job.
- Relieve pressure in the Heatermate by turning off the pump on your Ninja or E600 machine. Then open the valve on tool to relieve the pressure.
- Disconnect power then disconnect hoses.


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EXTERNAL HEATER MATE (240-305)

REF	PART NO.	DESCRIPTION	NOTES:
1	305-210	Toggle Switch	
2	305-225	Switch Plate ON/OFF	
3	305-245	Thermo Cut-Out	
4	305-265	Thermostat 200F	
5	**315-016**	Cord, 25' Black 12/3 SJTW-A	
6	318-010	Heater Element 1850W x 9"	
7	320-110	Lamp, Panel 110v	
8	325-220	Terminal Ring, 1/2 Yellow	
9	335-015	Strain Relief, 14 Gauge	
10	350-005	Strap Velcro	
11	385-050	Collar, 1/2 Shaft - HM	
12	400-165	Locknut, 1/2"	
13	415-155	FW, 1/2 SS (Stand/Max OD)	
14	415-156	FW, 1/2 SS	
15	480-235	S.S Tube, 1/2 O.D x 3/8 I. D.	
16	490-005	Foamed Casing Round 1850W – EXT HM	Complete
17	490-015	Alum (Round) Casing	
18	495-500	Housing, HM External Blue	
19	498-104	Foot Rubber	
20	550-035	Check valve 1/4	
21	555-180	Elbow 45, 1/8 Street Extruded	
22	555-272	Hex Nipple, 1/4 Long	
23	555-510	Reducing ADPT, 1/4 FPT x 1/8 MPT	
24	555-540	Reducing nipple, 1/4 MPT x 1/8 MPT	
25	263-512	Heatermate Pulse Hose Assy	
26	580-010	Q.C. 1/4" Fem (Closed)	
27	580-015	Q.C. 1/4" Male (Closed)	
28	800-035	Alum, .100	
29	475-070	Gasket 1/8 X 10 (220 sqin)	Not Shown
30	475-045	Gasket 3" Round	Not Shown

EXTERNAL HEATER MATE WIRING



ESTEAM CLEANING SYSTEMS

HEATERMATE WARRANTY

NOTICE: REVIEW THIS WARRANTY CAREFULLY AS THIS DOCUMENT CONTAINS LIMITATION AND EXCLUSIONS.

PART I:

Esteam Manufacturing (hereinafter referred to as "Esteam") warrants each new Esteam Heatermate, to the original purchaser only, subject to the limitations as defined in the specific details of its warranty coverage defined below.

HOUSING WARRANTY COVERAGE

Esteam warrants the Heatermate Polyethylene Machine Housing Unit to be free from defects in material and workmanship (including cracking, leaking, or deterioration) for 12 months, expressly subject to the limitations stated herein.

In the event a defect occurs in the Heatermate Housing within 12 months of receipt by the original customer, Esteam will, if satisfied on its examination that the failure is due to defective material or workmanship, repair or replace the Heatermate Poly housing at no cost to the original customer, other than as maybe provided for in this warranty.

PART II - REPLACEMENT PARTS (UNDER WARRANTY)

Replacement warranty parts will be genuine Esteam parts, or parts of similar kind and quality. All replacement warranty parts are warranted to be free from defects in materials or workmanship from the date of the original unit purchase for the balance of the original warranty. Parts replaced after warranty expiration are covered for 30 days.

PART III - LIMITATIONS ON WARRANTY COVERAGE

WHAT IS NOT COVERED:

Notwithstanding any other term or covenant of Esteam contained herein, the following provisions shall apply:

(i) No warranty is provided for any Esteam product which has failed as a result of freezing, fire, misuse, alteration, improper amps or voltage, accidental damage, improper maintenance, unauthorized repairs, alterations, abuse, neglect or operation of an Esteam product not expressly recommended or contemplated by Esteam;

(ii) No warranty is provided for mechanical or electrical breakdown caused by scale, hard water buildup, improper use of chemicals or resins, damage due to environmental conditions, and acts of God, or other events beyond the control of Esteam;

(iii) No warranty is provided for mechanical or electrical breakdown or failure of an Esteam product resulting from ordinary wear and tear, or the consequences thereof; including but not limited to the gradual reduction of the operating performance of the product. The determination of what is or is not ordinary wear and tear is at the sole discretion of Esteam;

(iv) No warranty is provided for damage caused by the failure of non-warranted parts and/or accessories, even if warranted parts are damaged as a result of the failure of a non-warranted part;

(v) No warranty is provided for damage resulting from failure by the customer to maintain scheduled maintenance requirements. The Esteam system has many parts which must either be replaced or checked for wear on a regular basis. This system requires regular maintenance, service and attention by the customer;

(vi) No warranty is provided as to any extra expenses incurred by the customer, including but not limited to economic, incidental, consequential loss or damage (e.g, all labor charges, rental equipment, down time, lodging, commercial or business loss of any nature or kind due to product failure); whether direct or indirect, exemplary or punitive damage or loss, and whether in contract, tort or otherwise;

(vii) No warranty is provided as to failure of any cosmetic item or finish, labeling, silk screening, decals, paint, trim or other similar decorative items.

(viii) Brass, rubber and synthetic rubber parts (e.g. O-rings, diaphragms, gaskets, seals, grommets) are considered expendable in normal use and are therefore not included in any warranty by Esteam.

PART IV - EXCLUSION OF LIABILITY

Esteam makes no warranties or representations, either expressed or implied, oral or written, in fact, on by operation of law, or otherwise, except as expressly stated herein warranties. Esteam, its officers, directors, agents, dealers and its affiliates (and their respective officers, directors, agents and dealers) shall not be liable to the customer nor to any party for any liability, including without limitation, strict liability, liability for loss, injury or damage due directly or indirectly to the use or operation of the Esteam product; consequential, exemplary and/or punitive damage or loss, whether in contract, tort, or otherwise.

PART V - RETURN GUIDELINES

Defective items must be replaced through a local Esteam Distributor. Replacement parts will be sent via prepaid regular ground service to the distributor. The defective part must be returned F.O.B. factory within 30 days including a letter providing the machine's serial number, date of purchase, material return authorization number, and customer name. If applicable, credit will be issued after the item has been evaluated by Esteam. Failure to comply with return policy will void the warranty on that item.

PART VI-CREDIT POLICY

All customers purchasing parts through an Esteam distributor must arrange credit directly with that distributor.

PART VII - OUTSIDE SOURCE WARRANTY REPAIRS

At the sole discretion of Esteam, it may be necessary to perform warranty/repairs at an outside source. An estimate must be submitted to and approved by Esteam prior to work being performed. Failure to do so will result in denial of your warranty claim. This warranty is not transferable to any subsequent owner.

PART IX - NOTICE - CUSTOMER OBLIGATIONS

(i) Your responsibility as a customer includes but is not limited to cleaning, seasonal maintenance (e.g. winterizing), replacement of worn parts and all regular scheduled or unscheduled maintenance.

(ii) Any claim for warranty must be presented to Esteam or its authorized dealer, prior to the expiration of the time limitations specified and not thereafter, otherwise any warranty is void.

(iii) Notwithstanding the generality of the foregoing customer obligations, Esteam does hereby brings to the attention of the customer, these specific maintenance operating requirements of the Heatermate to validate its warranty:

(a) Chemical Warning:

Any improper use of chemicals shall void any Esteam warranty and thusly exclude any liability by Esteam. No dry-cleaning chemical may be used in an Esteam Heatermate as any such use may result in fire or damage.

The foregoing constitutes Esteam's entire warranty and no other warranty, liability, contingency or responsibility, direct, indirect, consequential or in any other way connected with the sale or operation of Esteam machines or chemical product is expressed or implied.

WARRNATY REFERANCE CHART

Polyethylene Heatermate Housing	12 Months
Heatercore	12 Months
All electrical, wiring, switches, fuses, cords, gaskets	90 Days
Thermostat	90 Days
Thermo Cut-Out	90 Days
Labor	90 Days

You must register your warranty online to activate your warranty. Go to www.esteam.com then click on Warranty Enrollment and complete the Warranty Enrollment Form and click on submit.