



Scientific Steam Technology

# Operating Manual

T • Series - All Steam Iron

Model No. T2, T3, T4 & T6



## IMPORTANT

- Please read this owner's manual thoroughly before installing and operating your iron.
- Please retain this owner's manual for future reference after reading it thoroughly.

# OPERATING MANUAL

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Thank you for purchasing the **ecosteam™** T • Series *All-Steam Iron*. The *All-Steam Iron* uses a steam supply connected to a boiler. Please read this instruction manual carefully before using the iron to ensure its longest possible life.

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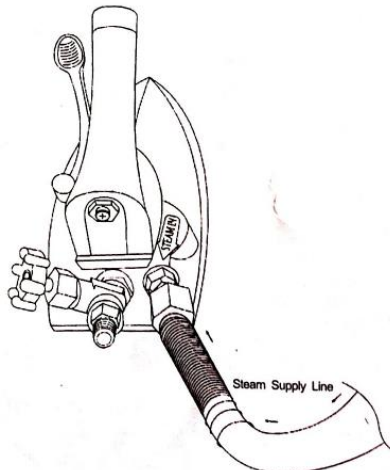
### WARNING

**Be sure to turn off the steam supply source of the iron and wait for the iron to cool down before attempting to troubleshoot the iron.**

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## A. INSTALLATION & CONNECTING

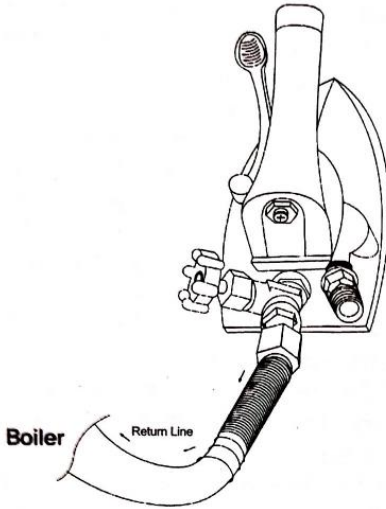
1. Connect one hose to the steam supply line from the boiler and the other end of the hose to the *Hose Fitting* (Part# THNC) of the iron where the “*Steam-In*” label is. (Fig.1)



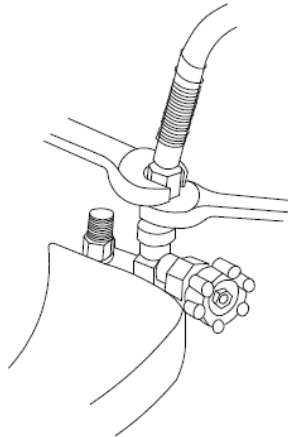
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2. Connect one end of the other hose to the returning line of the boiler and the other end to the *Hose Fitting* (Part# TEVC) of the iron. (Fig.2)



3. Fasten the cap nut of the hose while holding the hex-part of the *Hose Fitting* on the iron firmly with another wrench. (Fig.3)



### IMPORTANT

After connecting the hoses, inspect each hose connection. (If you see water leaking out from the bottom of the iron, the hoses are reversed.)

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### IMPORTANT

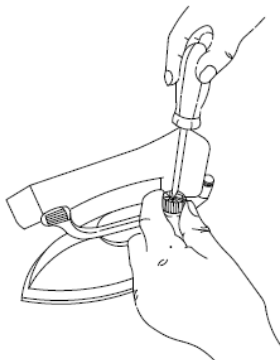
- Before you start ironing, turn the *Black Knob* on the *Exhaust Valve* counterclockwise so that any possible condensation formed by installation is released back through the return line into the boiler.
- Make sure that the iron is facing away from the press and any clothes, and press on the *Push Lever* a few times.
- If the boiler is not hot enough, you may see water leaking out of the iron. This is not an iron malfunction. Do not start pressing clothes until the boiler has heated thoroughly. Be sure to place the iron on the iron rest when not in use. Failing to do so may damage clothing, equipment, and/or the iron.
- If you see water leaking out from the bottom of the steam iron, please refer to the “Troubleshooting” section of this manual

### B. OPTIMIZATION & ENERGY SAVING

- When operating the *All-Steam Iron*, open the *Black Knob* on the *Exhaust Valve* (Part# TEVC) counterclockwise about a  $\frac{1}{4}$  turn so that any possible condensation is released through the *Exhaust Valve*.
- The most efficient way to save steam is by installing a reliable *Steam Trap*. As long as your *Steam Traps* are in good condition, no steam will be wasted.

### C. ADJUSTING THE STEAM VOLUME

- When you need to adjust the steam volume, unfasten the *Black Cap Nut* (Part # T8600-1) counterclockwise to release the *Adjusting Screw* and turn the *Adjusting Screw* with a screwdriver.
- Turn the *Adjusting Screw* counterclockwise to increase the steam volume.
- Turn the *Adjusting Screw* clockwise to decrease the steam volume.
- Once you have reached the desired steam volume, fasten the *Black Cap Nut* clockwise over the *Adjusting Screw* (Fig.4) to lock it in place.



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### IMPORTANT

- Once finished with operating the iron, close the steam valve of the boiler, and press down on the *Push Lever* of the iron until all the remaining steam inside the iron has been released.
- Prior to your next operation, repeat the above-mentioned procedures. In the event that you encounter technical difficulties with the iron, please contact your local Authorized Dealer from whom the **ecosteam™** iron was purchased. Only skilled mechanics should attempt any repairs on an iron.

## D. MAINTENANCE

- Be sure to clean the base of the iron regularly. Keep the base clean of dust and adhered starch-residues.
- Empty the iron and hoses of steam and condensation at the end of each operation.
- Check the iron periodically to make sure there are no steam leaks.
- If you need to replace parts on the iron, please contact your local Authorized Dealer from whom the **ecosteam™** iron was purchased.
- Use genuine **ecosteam™** parts for optimum results.

## E. TROUBLESHOOTING

**(Problem)** The iron is not releasing any steam or the iron is not heating up.

**(Solution 1)** Make sure the boiler is turned on.

**(Solution 2)** Make sure the *Ball Valves* of the steam supply line are open.

**(Solution 3)** Make sure the steam supply hose is not clogged. Check the steam supply *Hose Fitting* (Part# THNC) on the iron and make sure it is free of any debris, dirt, or scale build-up. If the *Hose Fitting* is clogged it will not allow steam to flow through the iron.

**(Solution 4)** Make sure the hoses are in good working order. Replace if crimped or bent. Make sure there is no debris in them by taking them off the iron and blowing air through them.

**(Solution 5)** Make sure the *Steam Traps* are not clogged. Tap on the *Steam Trap* to dislodge any dirt or debris that may cause the *Steam Trap* to stay shut.

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### **(Problem) The steam flow is not sufficient**

**(Solution )** Refer to the “Adjusting the Steam Volume” section of this manual. After the steam flow is adjusted, fasten the *Black Cap Nut* over the *Adjusting Screw* to lock it in place. Make sure that 80-psi is flowing into the iron.

### **(Problem) The iron leaks water from the base of the iron when the Push Lever is pressed after installation**

**(Solution 1)** Make sure that the steam supply and the steam return hoses have not been reversed. (This is the most common cause of initial water leaks).

**(Solution 2)** Turn the *Black Knob* on the *Exhaust Valve* (Part# TEVC) counterclockwise to release any condensation.

**(Solution 3)** If you still see water leaking out, check the *Steam Trap*. A malfunctioning/defective *Steam Trap* causes leakage problems. Tap on the *Steam Trap* to dislodge any dirt or debris that may cause the *Steam Trap* to stay shut.

**(Solution 4)** Make sure the return line is working properly.

### **❖The following procedure can help determine where the problem lies.**

With the steam supply source turned on, keep the steam supply hose connected, but disconnect the steam return hose. Let the return hose fall into a pail to collect any water. Press down on the *Push Lever*.

#### **a) If the iron gives off a dry steam, then the problem lies in the return line.**

- There may be a *Steam Trap* problem or a *Check Valve* problem.
- Make sure that these 2 items closest to the iron are not clogged with debris.

**Is a *Thermodynamic Trap* being used?** The *Thermodynamic Trap* allows condensation and steam to continually flow. A good *Thermodynamic Trap* virtually eliminates any water problems. These traps, however, should be used with a strainer as they have a tendency to clog.

#### **b) If the iron isn't giving off any steam or water is leaking out of the iron, the problem lies in the supply side of the iron or in the iron itself.**

- Check the steam supply *Hose Fitting* (Part# THNC) on the iron for dirt. If the *Hose Fitting* is clogged, steam cannot flow through. The *Hose Fitting* must be cleaned.

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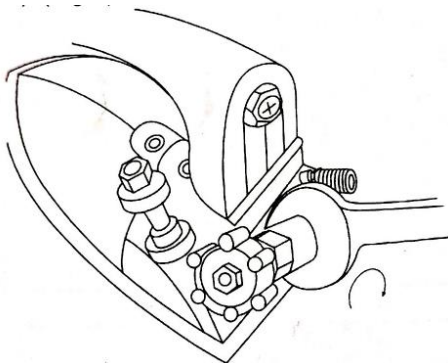
- Check to make sure the hoses are in good working order. Replace if crimped or bent. Make sure there is no debris in them by taking them off the iron and blowing air through them.
- Make sure that the *Exhaust Valve* (Part# TEVC) is open and allowing all water to flow back through the return line into the boiler.
- Make sure there is no water flowing through the steam supply line. This line should only have steam flowing through it. If there is any water in the line, it will leak through the bottom of the iron.

### **(Problem) The iron is leaking steam from the base of the iron or Push Lever**

- (Solution 1)** There may be debris or dirt lodged in the *Steam Valve*.
- (Solution 2)** The part may need to be cleaned or replaced.
- (Solution 3)** There may be a bad *Gasket* in the *Steam Valve* area.
- (Solution 4)** Replace the *Steam Valve Assembly* (Part# TSVC).

### **(Problem) The steam is leaking out from the Exhaust Valve**

- (Solution 1)** The *Teflon® Packing* inside the *Exhaust Valve* is set in an optimized location before leaving the factory. The *Teflon® Packing* wears down and gets loose after a certain period of normal use.
- (Solution 2)** If the steam is leaking out from the *Exhaust Valve*, adjust the *Exhaust Valve Nut* clockwise with a wrench to reinforce the *Teflon® Packing* until the leakage stops (Don't over tighten or it will reduce the life of the *Teflon® Packing*).
- (Solution 3)** After adjusting the *Exhaust Valve Nut* if you still see steam leaking out, the part will need to be replaced (Part# TEVC). (Fig.5)

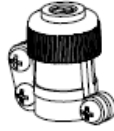


# PARTS BREAK DOWN

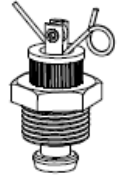
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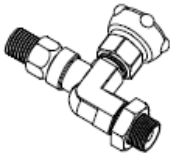
TS-007



T-8600-1



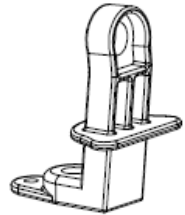
TSVC



TEVC



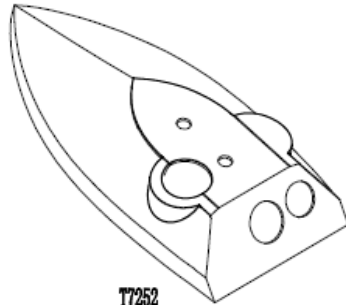
TEHC



TS-008



TS-013



T7252



## PART LIST

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<b>Part No.</b>	<b>Name</b>	<b>Description</b>
TS-007-1	Handle Assembly	<ul style="list-style-type: none"><li>• Handle Tip Screw</li><li>• Handle Tip</li><li>• Handle Nut</li><li>• Handle</li></ul>
T8600-1	Steam Regulator Assembly	<ul style="list-style-type: none"><li>• Lever Clamp</li><li>• Lever Clamp Screw &amp; Washer</li><li>• Adjusting Screw</li><li>• Black Cap Nut</li></ul>
TSVC	Steam Valve Assembly	<ul style="list-style-type: none"><li>• Steam Valve Spindle</li><li>• Valve Spindle Spring</li><li>• Spring Ring</li><li>• Teflon® Cap Seal</li><li>• Silicon O-Ring for Valve Spindle</li><li>• Teflon® Bushing</li><li>• Valve Body Silicon O-Ring</li><li>• Steam Valve Body</li></ul>
TEVC	Exhaust Valve Assembly	<ul style="list-style-type: none"><li>• Exhaust Valve Body</li><li>• Exhaust Valve Packing &amp; Nut</li><li>• Hose Fitting</li><li>• Hose Fitting Packing</li><li>• Adjusting Screw</li><li>• Brass Ring (2)</li><li>• Teflon® Packing</li><li>• Exhaust Valve Nut</li><li>• Black Knob &amp; Nut</li></ul>
THNC	Hose Fitting Assembly	<ul style="list-style-type: none"><li>• Hose Fitting Washer</li><li>• Hose Fitting</li></ul>
TS-008	Handle Support	<ul style="list-style-type: none"><li>• Handle Bottom</li><li>• Spring Washer &amp; Bolt</li><li>• Name Plate &amp; Screw</li></ul>
TS-013	Push Lever	<ul style="list-style-type: none"><li>• Push Lever</li><li>• Push Lever Fulcrum</li></ul>
T7252	Plastic Cover	<ul style="list-style-type: none"><li>• Plastic Cover</li><li>• Plastic Cover Screw</li></ul>

## 6 Months Limited Warranty

The **ecosteam**™ All-Steam Iron is tested and inspected before leaving our factory. We warrant to the original user of this product that it will be free from defects in material and workmanship for 6 months from date of purchase. With respect to non-durable parts that normally require replacement within a year, including hoses, and valve discs that can wear down to normal wear and tear there is a limited warranty of 90 days. The warranty period on each replacement part furnished for the **ecosteam**™ iron in fulfillment of the warranty shall be for the unexpired portion of the original part that was replaced.

In no way will the manufacturer of the **ecosteam**™ iron be responsible for any incidental or consequential damage caused by the iron. Any liability is limited solely to the repair or replacement of the part or product, excluding any labor or any other cost to remove or install said part or product.

This warranty is contingent upon installation and use of equipment under normal operating conditions. This warranty is void on iron and parts that have been subject to misuse, accident, or negligent damage.

For warranty service, contact an Authorized Dealer from whom the **ecosteam**™ iron was purchased.