

**Model: 09-4003-4010  
Deicer**

10/2019 – Rev. 02

REVISION  
OR  
01  
02

DATE  
08/2001  
05/2005  
10/2019

TEXT AFFECTED  
Original Release  
pg 3 Added item 6 and modified illustration  
Modified Parts List

TABLE OF CONTENTS

	<u>PAGE</u>
<b>1.0 PRODUCT INFORMATION .....</b>	<b>1</b>
1.1 DESCRIPTION.....	1
1.2 MODEL & SERIAL NUMBER.....	1
1.3 MANUFACTURER .....	1
<b>2.0 SAFETY INFORMATION.....</b>	<b>1</b>
2.1 USAGE AND SAFETY INFORMATION .....	1
<b>3.0 PREPARATION &amp; OPERATION .....</b>	<b>1</b>
<b>4.0 MAINTENANCE &amp; STORAGE.....</b>	<b>2</b>
4.1 CLEANING UNIT AFTER EACH USE .....	2
4.2 PRIOR TO STORAGE OF UNIT .....	2
<b>5.0 PROVISION OF SPARES.....</b>	<b>2</b>
5.1 SOURCE OF SPARE PARTS.....	2
5.2 RECOMMENDED SPARE PARTS LISTS .....	2
<b>6.0 IN SERVICE SUPPORT.....</b>	<b>2</b>
<b>7.0 GUARANTEES/LIMITATION OF LIABILITY .....</b>	<b>2</b>

This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., its suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur. Only Tronair OEM replacement parts shall be used.

## 1.0 PRODUCT INFORMATION

### 1.1 DESCRIPTION

The Tronair 09-4003-4010-A1 Deicer is a portable unit with a 2½ gallon capacity.

The purpose of the deicer is to remove frost, ice and snow from aircraft surfaces using approved deicing fluid.

### 1.2 MODEL & SERIAL NUMBER

Reference nameplate on unit

### 1.3 MANUFACTURER

**TRONAIR**, Inc.  
1 Air Cargo Pkwy East  
Swanton, Ohio 43558 USA

Telephone: (419) 866-6301 or 800-426-6301  
Fax: (419) 867-0634  
E-mail: sales@tronair.com  
Website: www.tronair.com

## 2.0 SAFETY INFORMATION

### 2.1 USAGE AND SAFETY INFORMATION

To insure safe operations please read the following statements and understand their meaning. Also refer to your equipment manufacturer's manual for other important safety information. This manual contains safety precautions which are explained below. Please read carefully.



#### WARNING!

Warning is used to indicate the presence of a hazard that can cause **severe personal injury, death, and/or substantial property damage** if the Warning Notice is ignored.



#### CAUTION!

Caution is used to indicate the presence of a hazard, which will or can cause **minor personal injury or property damage** if the Caution Notice is ignored.



#### WARNING!

**Personal injury may result if procedures are not followed.**

- Never open fluid tank while under pressure.
- Never pressurize air tank more than 100 psi.



#### CAUTION!

**Use only proper de-icing fluids approved by aircraft manufacturer.**

## 3.0 PREPARATION & OPERATION

Follow operating instructions as labeled on unit:

1. Ensure the tank is depressurized by depressing the tank handle prior to opening tank.
2. Fill with desired amount of fluid through fill connection.
3. Pressurize tank with shop air (Maximum 100 PSI).
4. Connect hose assembly.
5. Remove safety pin.
6. Depress tank handle to dispense pressurized fluid.

#### 4.0 MAINTENANCE & STORAGE

##### 4.1 CLEANING UNIT AFTER EACH USE

1. Empty tank as follows:
    - a. Invert tank (this saves the remaining fluid in the tank from being emptied).
    - b. Depress tank handle to discharge any remaining pressure left in the tank.
  2. With tank de-pressurized, remove the tank discharge assembly.
  3. Pour out any remaining salvageable fluid.
  4. Rinse out tank with clean, fresh water.
  5. Re-install the tank handle.
  6. Disconnect hose assembly.
  7. Drain hose assembly from coupling.
  8. Re-install the hose assembly.
  9. Pressurize tank to approximately 20 psi.
  10. Blow out lines. Depress tank handle to run air through the unit.
  11. Re-install safety pin.
- Replace worn hoses as required.
  - Hydrostatically test tank as required due to physical damage, or as required by local law, or every 10 years.

##### 4.2 PRIOR TO STORAGE OF UNIT

1. Ensure fluid tanks are clean. (See **Section 4.1**)
2. Clean the unit exterior prior to storage.

#### 5.0 PROVISION OF SPARES

##### 5.1 SOURCE OF SPARE PARTS

Spare parts may be obtained from the manufacturer:

**TRONAIR, Inc.**  
1 Air Cargo Pkwy East  
Swanton, Ohio 43558 USA

Telephone: (419) 866-6301 or 800-426-6301  
Fax: (419) 867-0634  
E-mail: [sales@tronair.com](mailto:sales@tronair.com)  
Website: [www.tronair.com](http://www.tronair.com)

##### 5.2 RECOMMENDED SPARE PARTS LISTS

Reference the following page(s) for Replacement Parts and Kits available.

#### 6.0 IN SERVICE SUPPORT

Contact Tronair, Inc. for technical services and information. See Section 1.3 – Manufacturer.

#### 7.0 GUARANTEES/LIMITATION OF LIABILITY

Tronair products are warranted to be free of manufacturing or material defects for a period of one year after shipment to the original customer. This is solely limited to the repair or replacement of defective components. This warranty does not cover the following items:

- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

If you have a problem that may require service, contact Tronair immediately. Do not attempt to repair or disassemble a product without first contacting Tronair, any action may affect warranty coverage. When you contact Tronair be prepared to provide the following information:

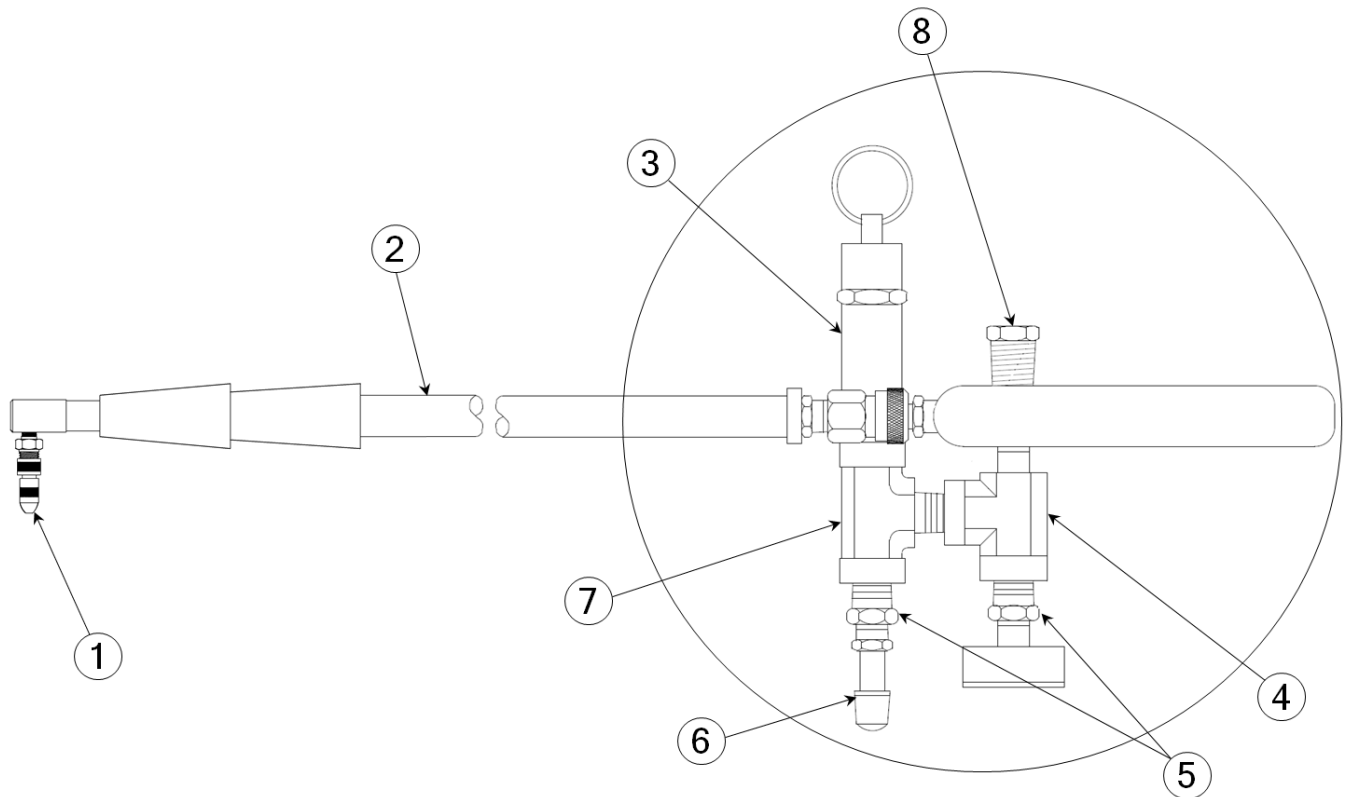
- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA in advance of returning an item will result in a service fee. A decision on the extent of warranty coverage on returned products is reserved pending inspection at Tronair. Any shipments to Tronair must be shipped freight prepaid. Freight costs on shipments to customers will be paid by Tronair on any warranty claims only. Any unauthorized modification of the Tronair products or use of the Tronair products in violation of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied.

The obligations of Tronair expressly stated herein are in lieu of all other warranties or conditions expressed or implied. **Any unauthorized modification of the Tronair products or use of the Tronair products in violations of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied and Tronair disclaims any and all liability for injury (WITHOUT LIMITATION and including DEATH), loss or damage arising from or relating to such misuse.**

**Parts List**

When ordering replacement parts/kits, please specify model, serial number and color of your unit.



Item	Part Number	Description	Qty
1	H-1327	Nozzle, Adjustable Spray	1
3	PC-1017-02-125	Valve, Safety	1
4	N-2209-27-S	Street Tee, 1/8" x 1/4" x 1/4" NPT	1
5	N-2210-02-S	Bushing, 1/8" x 1/4" NPT, Reducing	2
6	H-1221	Valve, Air	1
7	N-2008-03-S	Street Tee, 1/4" x 1/4" x 1/4" NPT	1
8	N-2006-02-B	Plug	1
2	<b>K-1355</b>	<b>Kit, Wand Assembly;</b> consists of:	
	N-2403-01-B	Plug, Male Thread	1
	N-2402-010-B	Socket, Female Thread	1
	N-2412-04	Connector, Straight Thread	1
	WC-1041-01*192	Hose, Low Pressure	1
	C-080	Handle, Deicer	1
	B-186	Adapter, Spray Head	1
	N-22023-03-S	Nipple, Pipe	1
	H-1327	Nozzle, Adjustable Spray	1
	G-1350-13	Rivet, 3/16 Closed-End Aluminum	1