



# HOT HOUSE MINI GREENHOUSE

## Model 94241

### ASSEMBLY & OPERATING INSTRUCTIONS



Use only with GFCI electrical outlet

Due to continuing improvement, actual product may differ slightly from product described herein.



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For technical questions and replacement parts please call 1-800-444-3353.

THANK YOU for choosing a **HARBOR FREIGHT TOOLS** product. For future reference, please complete the owner's record below:

**Model** \_\_\_\_\_ **Serial No.** \_\_\_\_\_ **Purchase Date** \_\_\_\_\_

SAVE THE RECEIPT, WARRANTY AND THESE INSTRUCTIONS. It is important that you read the entire manual to become familiar with the unit BEFORE you begin assembly.

#### Technical Specifications

Material:	(1) Polyester Nylon heating mat
Tray Dimensions:	21-3/4" Long X 11-3/4" Wide X 2-1/8" High
Seed Inserts:	1-3/4" squares, 2" deep (10 X 5 Rows=50)
Dome Lid Dimensions:	22-1/8" Long X 12" W X 5" Deep
Mat Dimensions:	19-3/4" L X 9-1/8" W X .177" Thick; stitching = 7 per inch
Cord Length:	66" L



***READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!***

#### Safety Warnings and Precautions

**WARNING:** When using product, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

**Read all instructions before using this product!**

#### **WORK AREA**

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate the Hot House in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Electrical products create sparks which may ignite the dust or fumes.

#### **ELECTRICAL SAFETY**

3. **Grounded products must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If a grounded product should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
4. **Double insulated products are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation  eliminates the need for the three wire grounded power cord and grounded power supply system.

5. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
6. **Do not abuse the Power Cord. Never use the Power Cord to carry the Hot House or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, and sharp edges. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.
7. **When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These extension cords are rated for outdoor use, and reduce the risk of electric shock.

#### **PERSONAL SAFETY**

8. **Stay alert. Watch what you are doing, and use common sense when operating the Hot House. Do not operate the Hot House while tired or under the influence of drugs, alcohol, or medication.**
9. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair.**
10. **Use safety equipment. Always wear eye protection during assembly and maintenance.**
11. **WARNING! People with pacemakers should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pace maker could cause interference or failure of the pacemaker.**

#### **TOOL USE AND CARE**

12. **Do not overload the Hot House. Use the correct Hot House for your application.**
13. **Disconnect the Power Cord Plug from the power source before inserting seeds, making any adjustments, watering, or storing the Hot House.** Such preventive safety measures reduce the risk of turning on the product accidentally.
14. **Store idle products out of reach of children and other untrained persons.**
15. **Maintain the Hot House with care.** Do not use a damaged Hot House. Tag damaged Hot House “Do not use” until repaired.

#### **SERVICE**

16. **When servicing the Hot House, use only identical replacement parts.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.
17. **Always unplug the Hot House from its electrical outlet before performing any watering, inspection maintenance, planting or cleaning procedures.**

## GROUNDING

### WARNING!

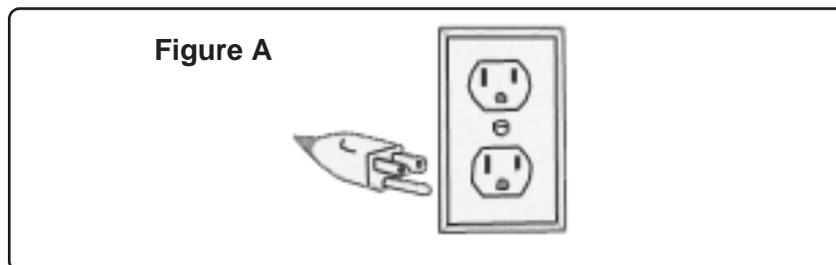
Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the Hot House. Never remove the grounding prong from the plug. Do not use the Hot House if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

**Warning: Only use this Hot House with a GFCI electrical outlet.**

To comply with the National Electrical Code (NFPA70), and to provide additional protection from the risk of electric shock, this Hot House/Mini Greenhouse should only be connected to a receptacle that is protected by a ground fault circuit interrupter (GFCI).

### GROUNDING TOOLS: TOOLS WITH THREE PRONG PLUGS

1. Tools marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the Hot House should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See Figure A.)**
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the Hot House's grounding system and must never be attached to an electrically "live" terminal. **(See Figure A.)**
3. A grounded appliance must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration. **(See Figure A.)**

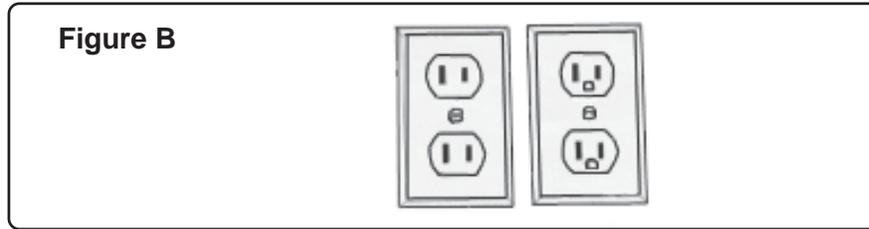


### DOUBLE INSULATED APPLIANCES: APPLIANCES WITH TWO PRONG PLUGS

**Note: The Hot House has a Two Prong Plug.**

1. Appliances marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. **(See Figure B.)**

2. Double insulated tools may be used in either of the 120 volt outlets shown in the following illustration. **(See Figure B.)**



### EXTENSION CORDS

1. ***Grounded*** appliances require a three wire extension cord. ***Double Insulated*** products can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Figure C, next page.)**
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Figure C.)**
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Figure C.)**
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Figure C.)**
6. If you are using an extension cord outdoors, make sure it is marked with the suffix “W-A” (“W” in Canada) to indicate it is acceptable for outdoor use.
7. Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

**Figure C**

<b>RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS*</b> <b>(120 VOLT)</b>					
<b>NAMEPLATE AMPERES (At Full Load)</b>	<b>EXTENSION CORD LENGTH</b>				
	<b>25 Feet</b>	<b>50 Feet</b>	<b>75 Feet</b>	<b>100 Feet</b>	<b>150 Feet</b>
<b>0 – 2.0</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>16</b>
<b>2.1 – 3.4</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>16</b>	<b>14</b>
<b>3.5 – 5.0</b>	<b>18</b>	<b>18</b>	<b>16</b>	<b>14</b>	<b>12</b>
<b>5.1 – 7.0</b>	<b>18</b>	<b>16</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>7.1 – 12.0</b>	<b>14</b>	<b>14</b>	<b>12</b>	<b>10</b>	<b>-</b>
<b>12.1 – 16.0</b>	<b>14</b>	<b>12</b>	<b>10</b>	<b>-</b>	<b>-</b>
<b>16.1 – 20.0</b>	<b>12</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>

**\* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.**

### **Specific Safety Rules for the Hot House**

1. **Maintain labels and nameplates on the Hot House.** These carry important information. If the labels are unreadable or missing, contact Harbor Freight Tools for replacement.
2. **Always place the Hot House on a dry, flat, level, sturdy non-flammable work surface capable of supporting the weight of the Hot House and any plants or seeds.** Make sure to place the Hot House in a location that is out of reach of children.
3. **Turn off the Hot House and unplug it from its electrical outlet before doing any planting or maintenance.**

**WARNING:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

### **Unpacking**

When unpacking your Hot House, check to make sure that it is intact and undamaged. If it is damaged or broken, please call **HARBOR FREIGHT TOOLS** at **1-800-444-3353**.

### **Assembly-Using the Hot House to Germinate Seeds**

Your Hot House comes completely assembled. You will have to supply seedlings (not included) and set up the Mat, Tray, Seeding Container and Dome yourself. The Hot House must be unplugged before adding any seeds or doing any work with it. It is important that you read the entire manual to become familiar with the product BEFORE you operate the Hot House.

1. Place the Seeding Insert (2) into the Black Tray (3).
2. Decide on seeds and a growing medium such as garden soil or a soilless growing mix (all not included). Information on the ideal mix to use can be obtained online or through your local library.
3. With the Seeding Insert separated from the Black Tray (3) and Mat (4), fill each section of the Seeding Insert (2) with growing mix.
4. Place the seeds individually into each section of the Seeding Insert (2). The seeds should be placed into the growing mix according to the instructions provided on the packet along with the seeds. Seeds can generally be covered to about three times the depth of the seed.
5. Moisten the growing mix.
6. Most seedlings germinate best if the soil temperature is around 75 degrees F. If soil is too cold the seeds may not germinate. Seeds are done germinating once they sprout.
7. Place the Transparent Dome (1) onto the Black Tray (3). Set the assembled contents (Black Tray (3), Seeding Insert (2) and Transparent Dome (1) onto the Heating Mat (4).
8. Plug the Heating Mat (4) into a 120V GFCI outlet.

9. Replant the seeds. Once the seeds are replanted, the Hot House may be used to begin a new batch of seeds.
10. When watering your seeds, make certain to not overflow the seed containers or spill excessive water on the Heating Mat (4).

### **Storage and Maintenance**

1. Store the Hot House in a place out of the sunlight. Because parts of the Hot House are easily damaged by impact or being dropped, store in a safe and secure location out of the reach of children.
2. Clean and wash out the Seeding Insert (2) and Black Tray (3) after each use. Make certain that all components are free of dirt, debris, fungus and mold.
3. Before each use, inspect the Hot House and make certain that no parts are cracked or damaged. Make certain Mat is intact and wiring is not damaged or broken.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

**PLEASE READ THE FOLLOWING CAREFULLY**

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

<b><u>Part #</u></b>	<b><u>Parts List Description</u></b>	<b><u>Quantity</u></b>
1	Transparent Dome	1
2	Seeding Insert	1
3	Black Tray	1
4	Heating Mat	1

