



# ELECTRIC FIREPLACE HEATER WITH SINGLE GLASS DOOR

**Model 91797**

## ASSEMBLY AND OPERATING INSTRUCTIONS



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**Read this material before using this product.  
Failure to do so can result in serious injury.  
SAVE THIS MANUAL.**

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**For technical questions or replacement parts, please call 1-800-444-3353.**

Revised Manual 10d

## SPECIFICATIONS

ITEM	DESCRIPTION
Power Requirements	120 VAC, 60 Hz, 15 Amps
Heater Settings	750 and 1500 Watts
Heater Controls	Fan On/Off switch; 2 -2750W On/Off switches; Fire light On/Off switch; Temperature thermostat knob; Fire light brightness knob; Remote Control Unit
Line Cord	Two-prong polarized plug; 16 AWG x 2C; UL listed
Light Bulbs	2 - 60W candelabra bulbs
Overall Dimensions	20-3/8 (L) x 11-1/2 (W) x 22-3/4 (H) inches
Weight	39 Lbs.



The maximum room size of the heater is 400 square foot.

## SAVE THIS MANUAL

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

## GENERAL SAFETY RULES

 **WARNING!**

**READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.**

**SAVE THESE INSTRUCTIONS**

### WORK AREA

1. **Keep the area surrounding this appliance clean and orderly.**
2. **Do not operate this heater in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.**

## Electrical Safety

3. **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.
4. **Do not expose appliances to rain or wet conditions.** Water entering a appliance will increase the risk of electric shock.
5. **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 the product should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
6. **Double insulated appliances 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.
7. **Do not abuse the Power Cord. Never use the Power Cord to pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.

## Personal Safety

8. **Stay alert. Watch what you are doing, and use common sense when operating this product.**
9. **Avoid accidental starting. Be sure the Fan Switch is off before plugging in.**

## Tool Use and Care

10. **Do not use this appliance if any switch or thermostat does not work properly.**
11. **Disconnect the Power Cord Plug from the power source before making any adjustments to the appliance.** Such preventive safety measures reduce the risk of starting the appliance accidentally.

## Service

12. **Appliance service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

13. **When servicing an appliance, use only identical replacement parts. Follow instructions in the “*Inspection, Maintenance, And Cleaning*” section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

### **SPECIFIC SAFETY RULES FOR THIS PRODUCT**

1. **Maintain labels and nameplates on the Fireplace Heater.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
2. **Avoid fires and explosions.** Never place the Fireplace Heater near room curtains or other flammable materials. The floor on which the Fireplace Heater sits must be nonflammable and free of debris. Never use near flammable vapors or liquids.
3. **Maintain a safe working environment.** Keep the work area well lit. Make sure there is adequate surrounding space. Always keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use this product in areas near flammable chemicals, dusts, and vapors. Do not use this product in a damp or wet location.
4. **Avoid unintentional starting.** Make sure you are prepared to begin work before turning on the Fireplace Heater.
5. **Do not force the Fireplace Heater.** This product will do the work better and safer at the capacity for which it was designed.
6. **Always unplug the Fireplace Heater from its electrical outlet before performing and inspection, maintenance, or cleaning procedures.**
7. **Never leave the Fireplace Heater unattended while running.** Turn power off if you have to leave the room.
8. **Use proper extension cord.** If an extension cord is used, use the proper type as listed in the table on page 7. Keep extension cord off the ground and away from water.
9. **Connect to a GFCI outlet.** Always connect the Line Cord to a Ground Fault Circuit Interrupter (GFCI) protected electrical outlet.

### **GROUNDING**

**Note:** This product comes with a two-prong, polarized plug.

#### **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 tool or product. Never remove the grounding prong from the plug. Do not use the tool 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.**

## **Grounded Tools: Appliances with Three Prong Plugs**

1. Appliances 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 appliance 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 appliance. The green wire in the cord must be the only wire connected to the appliance's grounding system and must never be attached to an electrically "live" terminal. (See Figure A.)
3. Your 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.)

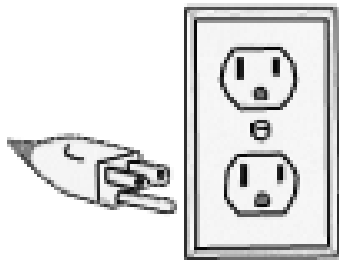


Figure A

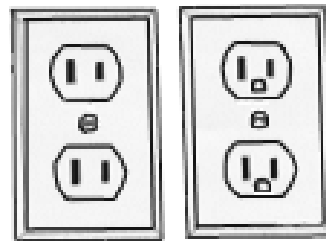


Figure B

## **Double Insulated Appliances: Appliances with Two Prong Plugs**

4. 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 above.)
5. Double insulated appliances may be used in either of the 120 volt outlets shown in the following illustration. (See Figure B above.)

## **EXTENSION CORDS**

1. *Grounded* tools require a three wire extension cord. *Double Insulated* tools 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 Table A.)
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 Table A.)
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 Table A.)

5. If you are using one extension cord for more than one appliance, add the nameplate amperes and use the sum to determine the required minimum cord size. (See Table A.)
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.




Table A

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-

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

## SYMBOLOLOGY

Table B

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
<b>V</b> ~	Volts Alternating Current
<b>A</b>	Amperes
$n^0_{xxxx}/min.$	No Load Revolutions per Minute (RPM)

## UNPACKING

The Fireplace Heater comes fully assembled from the factory, and is ready for operation. When unpacking, check to make sure that all the parts are included. Refer to the Assembly Drawing and Parts List at the end of this manual. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

## OPERATING INSTRUCTIONS

1. Place the Fireplace Heater in the desired location for operation.

This place must be away from curtains and any other flammable material. If an extension cord is used, it must be of the appropriate size (See page 6.). The electrical outlet must be at least a 15 amp circuit.

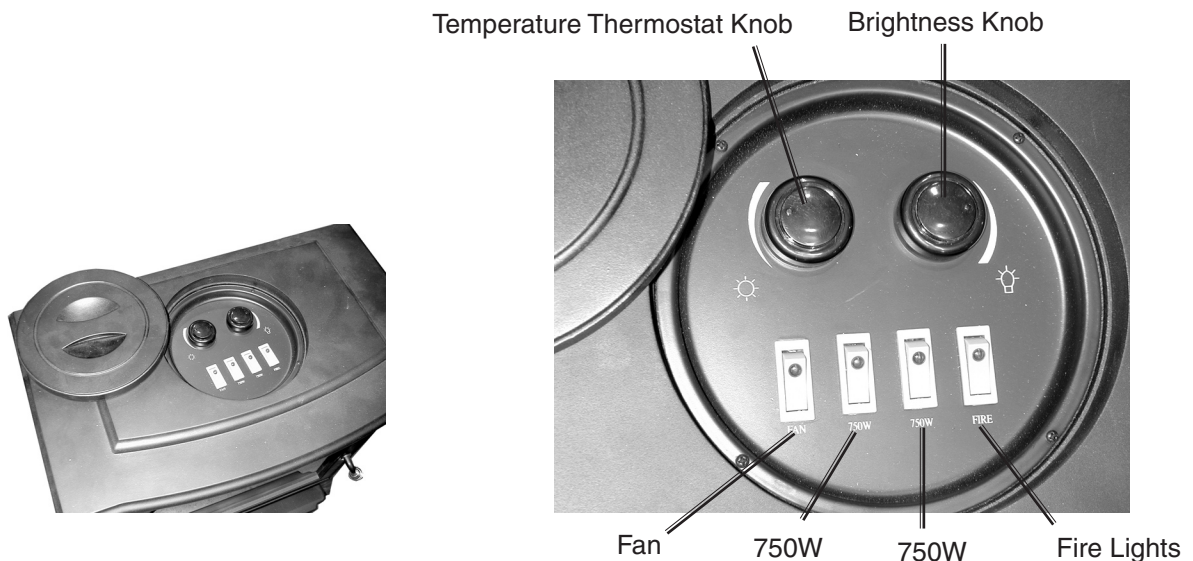
2. Press the Fan Switch up to turn it on. (See Figure C below.)
3. Press the 750W Switch to enable medium heat. Press the second 750W Switch to enable maximum heat.
4. Adjust the Temperature Thermostat Knob to the desired temperature (clockwise is maximum).

When the unit reaches the desired temperature, the unit automatically shuts off. When the room temperature cools down, the unit will automatically turn on.

**Note:** The Remote Control can be used to turn the unit on and off, and to adjust the temperature.

5. Press the Fire Switch to turn on the fire lights inside the imitation logs. Turn the Brightness Knob to the desired light level (clockwise is maximum).
6. When finished using the Fireplace Heater, press all switches down to the off position, and unplug the line cord from the electrical outlet.

**Figure C Control Panel**



## INSPECTION, MAINTENANCE AND CLEANING

**⚠ WARNING!** Make sure that all Switches of the Fireplace Heater are in the “OFF” position and that the unit is unplugged from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

1. **Before each use**, inspect the general condition of the Fireplace Heater. Check for

loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.

**Do not use damaged equipment.**

2. Periodically recheck all nuts, bolts, and screws for tightness.
3. Store in a clean and dry location.
4. Open the Fireplace Heater door and clean the rear mirror when it becomes dirty. Wipe the unit with a clean cloth when it becomes dusty.
5. To replace one or both of the fire light bulbs:
  - Remove two screws in front of the (plastic) logs, then remove the metal grate.
  - Squeeze the log base with your hand to remove the back tabs from the base, then lift the logs enough to get your hand in. Unscrew the old bulb and replace with a new candelabra 40W bulb.
  - Replace the logs to their original position, replace the metal grate and secure with the two screws.

Figure D Fire Light Bulb Replacement



Grate

Screws



Logs

Light Bulbs

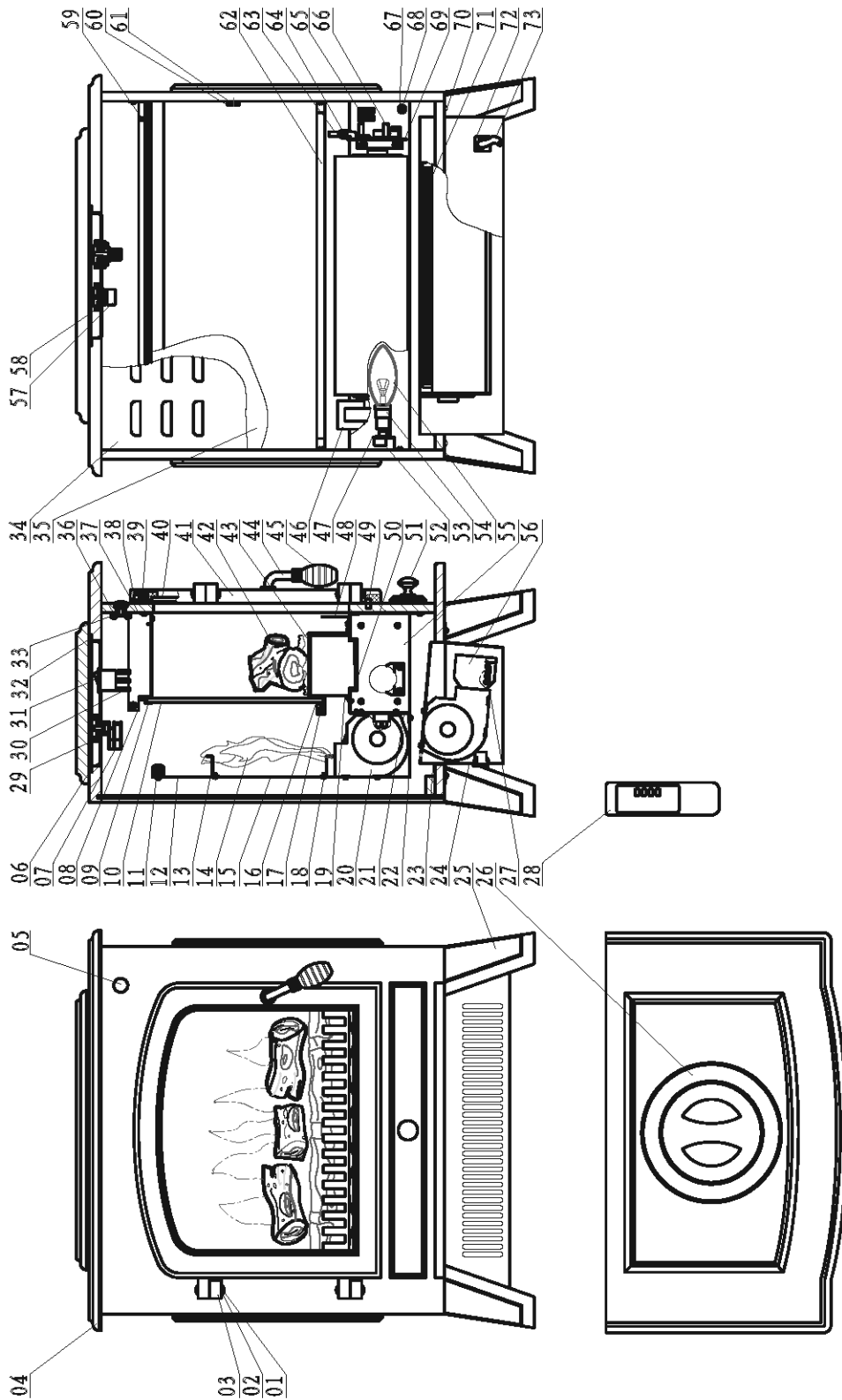


## PARTS LIST

Part	Description	Qty.
1	Pin	2
2	Ring	2
3	Hinge	2
4	MDF Housing	1
5	Window for receiver	1
6	Switch Box	1
7	Thermostat	1
8	Front Board	1
9	Press Board for glass	1
10	Diffuser	1
11	Right Angle Holder	2
12	Flame Board	1
13	Pot Hook for Ribbon	14
14	Ribbon	7
15	Reflecting paper	1
16	Rubber Stripe	2
17	Glass Stand	2
18	Rivet	14
19	Back Piece for Flame	1
20	Blower Housing	2
21	Side Sheet for Blower	1
22	Warder	1
23	Board	1
24	Blower Housing	1
25	Foot	4
26	Top Cover	1
27	Terminal Fuse	1
28	Remote Control	1
29	Switch	2
30	Plastic Tie	-
31	Boat Switch	4
32	Screw	4
33	Receiver	1
34	Back Board	1
35	Light Strainer	1
36	Quakeproof Ring	4
37	Holder for Front Board	1

Part	Description	Qty.
38	Clip	3
39	Screw for Glass	3
40	Door Glass	1
41	Door Frame	1
42	Log	2
43	Log Bed	1
44	Door Handle	1
45	Grenade of the Handle	1
46	Motor	2
47	Bulb Holder	2
48	Handrail	1
49	Magnet	2
50	Bottom Board for Flame	1
51	Knob	1
52	Screw Cap	2
53	Bulb Holder	2
54	Bulb	2
55	Side-sheet	2
56	Heating Element	1
57	Switch for fire adjust	1
58	Gasket	1
59	Bolt	-
60	Clip	6
61	Press Clip	4
62	Glass-stripe	1
63	Cover	20
64	Connector	20
65	Connection Pole	1
66	Components for Fire Adjustment	1
67	Rubber Ring	2
68	Internal Wires	-
69	Metal Holder	1
70	Screw	12
71	Blower	2
72	Wire Clip	1
73	Wire	1

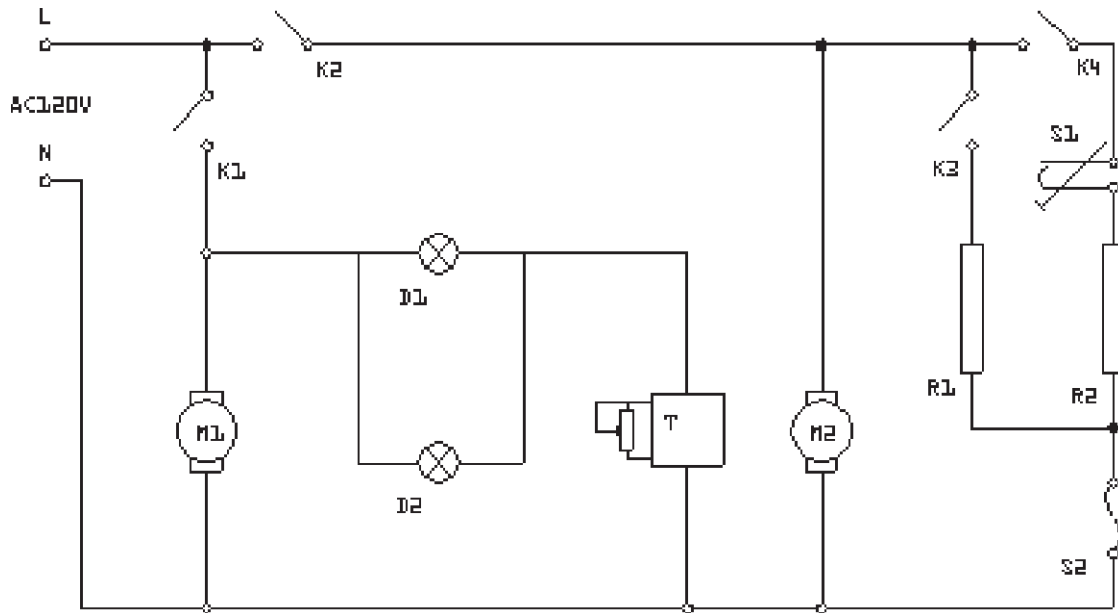
# ASSEMBLY DRAWING



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

REV 10d

## WIRING DIAGRAM



### **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.

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## LIMITED 90 DAY WARRANTY

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Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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