

# 12V HEATER/FAN

**Model 96144**



Diagrams within this manual may not be drawn proportionally.  
Due to continuing improvements, actual product may differ slightly from the product described herein.

**Distributed exclusively by Harbor Freight Tools®.**

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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.**

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## SPECIFICATIONS

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Overall Dimensions	7-1/4" W x 5-1/2" Deep x 2-3/16" H
Handle Dimensions	3" L x 1" W
Fuse	15 Amp
Power Source	12VDC, 13 Amps
Mounting Holes	(2) 5/32" Diameter
Includes	(1) Cigarette Lighter Plug Adapter with green power LED indicator
Power Cord	87" L with 15 Amp in-line blade fuse

### Save This Manual

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Write the product's serial number in the back of the manual near the assembly diagram, or write month and year of purchase if product has no number. Keep this manual and invoice in a safe and dry place for future reference.

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## GENERAL SAFETY RULES


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**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**

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not use this product in rain or wet conditions.** Water entering this product will increase the risk of electric shock.
3. **Stay alert. Watch what you are doing, and use common sense when using this product. Do not use this product while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating this product may result in serious personal injury.
4. **Keep out of the reach of any children.** A responsible adult should be present if children are in the area while the Heater/Fan is being used.
5. **Do not force the Heater/Fan. Use the correct product for your application.** The correct Heater/Fan will do the job better and safer at the rate for which it is

designed. Do not force the Heater/Fan and do not use it for a purpose for which it is not intended.

6. **Do not use the Heater/Fan if the On/Off Switch does not turn it on or off.** Any product that cannot be controlled with the On/Off Switch is dangerous and must be replaced or repaired.
7. **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the Heater/Fan. Always unplug the Heater/Fan from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.**
8. **Store idle equipment.** When not in use, make sure Heater/Fan is cool to the touch and then store in a dry location to inhibit rust. Always lock up the Heater and keep out of reach of children. Store an idle Heater/Fan out of reach of children and other untrained persons. This product is dangerous in the hands of untrained users.
9. **Check for breakage of parts, and any other condition that may affect the Heater/Fan operation. If damaged, have it serviced before using.** Many accidents are caused by poorly maintained products.
10. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
11. **Only a qualified service technician should repair this product. 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. The fuse in this unit must only be replaced with another 15 Amp Fast Acting Fuse of the same type.
12. **Maintain labels and nameplates on the tool.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
13. **Never leave the Heater/Fan unattended when it is plugged in.** Turn off the Heater/Fan, and unplug it from its electrical outlet before leaving.
14. **Do not allow the Heater/Fan to be exposed to fire or high heat as this may result in an explosion.**
15. **Only plug into a DC12V Cigarette Lighter Adapter receptacle.**
16. **Do not block air vents. The Heater/Fan gets hot when operating, and blocking the vents will cause overheating resulting in explosion or injury.**
17.  **Risk of Burns!** Keep children and pets away from this unit while it is hot. Do not place hands or feet near the vent.
18. **Do not deplete the vehicle battery.** Only use this Heater when the vehicle’s engine is running.

19. **Not For Extended Use.** Only use this Heater for 15 to 20 minutes at a time.
20. **Place the Heater in the proper location.** Set up the Heater in a level location that allows at least 2 inches of air space around the sides of the unit. Make sure nothing comes in contact with the Heater. Do not operate in close proximity to liquid.
21. **Check vehicle manual to ensure the vehicle lighter socket is 15 amps or greater.** Do not use a socket extension or pigtail to operate this heater.
22. **Do not overload the lighter socket by operating multiple appliances at the same time.**

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## UNPACKING

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When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

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## ASSEMBLY INSTRUCTIONS

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1. **⚠WARNING!** Make sure the On/Off Switch of the Heater/Fan is in its “OFF” position and that it is unplugged from its electrical outlet before making any adjustments to it.
2. Your 12V Rubberized Heater/Fan comes completely assembled. Instructions on replacing the Fuse and installing the Heater/Fan (optional) are outlined below.

### Replacing the Fuse

Fuse Holder (18)



**Figure 1**

1. If the Heater Fan fails to operate when plugged into the cigarette lighter adapter receptacle, check to see if the Fuse (12) should be changed. If the fuse for heater is useable, check the fuse on your vehicle for the lighter socket and change if necessary. Replace fuses with only same type and rating.

2. Using a small flat head screwdriver or similar tool, pull out the Fuse (12) from the Fuse Holder (18)-see Figure 1.
3. Do not replace with a different size fuse, as this may result in excessive heat build up and explosion, which can damage the CarHeater/Fan and cause injury.

### Mounting

1. The Heater/Fan can be permanently mounted to the vehicle using Mounting Screws (21) or can be mounted using the Adhesive Tape as desired. Mount the Heater Fan so that it is out of direct sunlight. Do not mount the Heater Fan on upholstered seats or flammable surfaces.
2. When using Mounting Screws, make certain that all drilling paths are clear of electrical lines, cables, wire and any other obstructions.
3. Make certain that there is sufficient length in the Power Cord to reach the Cigarette lighter.
4. Use the Mounting Base (6) as a guide to mark two holes in the desired surface. Drill holes in the desired surface.
5. Align the holes in the Mounting Base (6) with the drilled holes. Mount the Mounting Base (6) using Mounting Screws (21).
6. When using the Adhesive Tape (21) mount as follows:  
Make certain that there is sufficient length in the Power Cord to reach the Cigarette lighter. Wipe the Base (6) with alcohol for a grease-free surface. Peel off one face of the Adhesive Tape (21). Place the tape on the face of the Base (6) and press down and hold for one minute to adhere.
7. Prepare the mounting surface on the car following the same procedure as indicated in the above mentioned paragraph. Peel the tape backing carefully and position the Base (6) on the surface and press into place. Leave in place for an hour before use.

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## OPERATION INSTRUCTIONS

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Figure 2

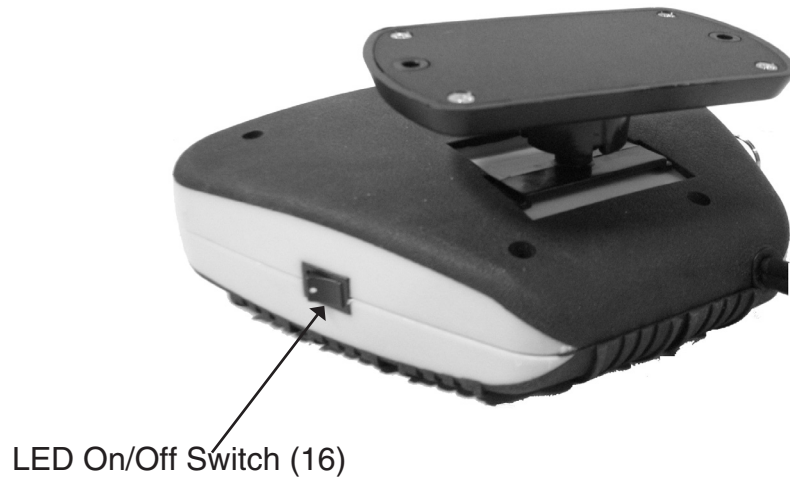


Figure 3



1. To operate the Heater-Fan, place the ON/OFF (11) switch in the Center (OFF) position. Plug the Cigarette Plug (1) into the lighter plug receptacle of your vehicle.

Note: The Heater-Fan can be removed from the Mounting Base (6). By holding the extended handle (4/5) the Heater-Fan can be moved around when greater mobility as needed.

2. The LED On/Off Switch (16) turns the power ON.
3. To select either the Fan (10) or the Heater, press the Fan On-Off Switch (11) to the setting as marked. Toggle the Fan On-Off Switch to the center position to turn off these functions.
4. Remove unit from base and fold out handle to defrost windows. The Heater-Fan Base swivels 180° to position air flow.
5. Do not leave the Heater/Fan running if your leave the area.

## INSPECTION, MAINTENANCE, AND CLEANING

1. **⚠️WARNING!** Make sure that both the Fan On/Off Switch (11) and the LED On/Off Switch are in their “OFF” position and that the Heater-Fan is unplugged from its power source before performing any inspection, maintenance, or cleaning procedures.
2. **BEFORE EACH USE**, inspect the general condition of the Heater-Fan. 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.**
3. **Store the Car Fan in a dry location out of direct sunlight. Keep the Car Fan out of the reach of children.**
4. **Clean with a soft cloth. Do not use flammable liquids or harsh detergents to clean the Car Fan. Do not submerge in fluid to clean.**

## PARTS LIST

	Description	
1	Main Upper Body	1
2	Main Lower Body	1
3	PTC Holder	1
4	Handle-Upper	1
5	Handle-Lower	1
6	Mounting Base	1
7	LED Reflector	1
8	LED Lens	
9	Air Vent Window	1
10	Fan Assembly	1
11	On/Off Switch	1

	Description	
12	Fuse-(15A)	
13	Red LED	
14	White LED	
15	PCB	1
16	LED On/Off Switch	1
17	Cigarette Lighter Plug	1
18	Fuse Holder	1
19	PTC	1
20	Key Ring	1
21	Adhesive Tape (2 sided)	1
22	Mounting Screws	2

### PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR 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.

**ASSEMBLY AND PARTS DIAGRAM**

