NuTone

Heat-A-Vent® Combination

MODEL: 9905-RO2

IMPORTANT INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE INSTALLING OR USING THIS HEATER.

To reduce the risk of fire, electric shock, or injury to persons, observe the following:

Use this unit only in the manner intended by the manufacturer. If you
have questions, contact the manufacturer at the address or
telephone number listed in the warranty.

Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.

 When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

- 5. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc. and curtains at least 3 feet (0.9 m) from the front of the heater.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- 8. Do not use outdoors.
- To disconnect heater, turn controls to off, and turn off power to heater circuit at main disconnect panel (or operate internal disconnect switch, if provided).
- 10. Do not insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause an electric shock or fire, or damage the heater.
- 11. To prevent a possible fire, do not block air intakes or exhaust in any manner.
- 12. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
- 13. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- 14. Install heater at least 12 inches from floor or any adjacent wall.
- 15. To avoid electrical shock: Do not install unit in a tub or shower enclosure or any location where it may come in contact with water. Never place a switch where it can be reached from a tub or shower.
- This product is designed for installation in ceilings up to a 12/12 pitch. Duct connector must point up. DO NOT MOUNT THIS PRODUCT IN A WALL.
- 17. Do not connect heater to dimmer switch or speed control.
- 18. Ducted fans must always be vented to the outdoors.
- 19. Provide a separate 20 AMP circuit. Use 12 GA. power cable of type which meets code.
- 20. This product must be grounded.

SAVE THESE INSTRUCTIONS

FOR BEST RESULTS

In a new construction site, install the housing (complete with heater and ventilator) during rough-in construction of the building. The grille should be installed when the finished ceiling is in place.

Installation in an existing, finished building requires an accessible area (attic or crawl space) above the planned location. See "INSTALLATION IN EXISTING CONSTRUCTION."

Do not install closer than 12 inches to a vertical surface. Do not install over tub or shower enclosure.

- For installation in sloped ceilings up to 12/12 pitch.
- Ductwork must point up.

UNIT DIMENSIONS

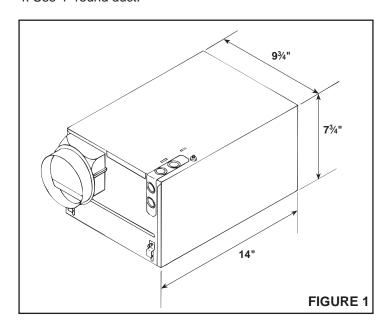
Refer to Figure 1 for housing's dimensions.

NOTE: If there will be a finished second floor above, the Model 9905 housing requires a minimum of 2" x 8" joist construction for mounting.

WIRING AND DUCTWORK

- 1. Run the required wiring during rough-in stage of construction.
- 2. Total connected load: 1630 watts.
- 3. Plan to run 120vAC, 60 Hz wiring (with ground) on a separate 20 Amp circuit from a power source, through the provided wall switch, to the housing's junction box. See wiring diagram.
- 4. Use 4" round duct.

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INSTALLATION IN NEW CONSTRUCTION

PREPARATION

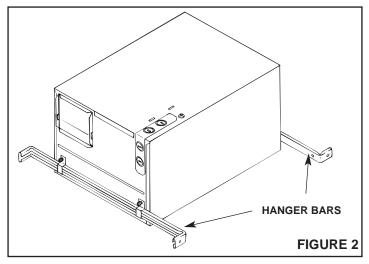
- 1. Loosen hanger bar brackets to allow bars to be inserted.
- 2. Refer to Figure 2. Insert hanger bars into brackets.
- 3. **Refer to Figure 3.** Slide hanger bar brackets down to end of slot closest to outside edge of housing. Tighten brackets in this position.
- 4. **Refer to Figure 4.** Remove junction box cover by removing one screw.
- 5. **Refer to Figure 4.** Remove appropriate wiring knockout(s) and install approved box connector(s).

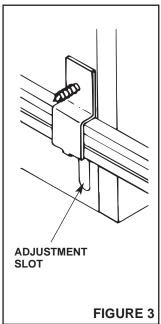
MOUNTING THE HOUSING

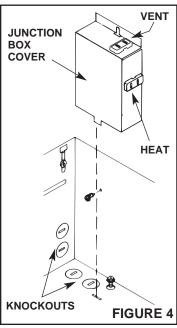
- 1. Locate housing between joists.
- Refer to Figure 5. Using nails, secure hanger bars to joists.
 NOTE: The hanger bar brackets are adjustable.
 Allowing for the thickness of the finished ceiling, mount hanger bars so that edge of housing will be flush with the finished ceiling.
- 3. Adjust brackets as required. Tighten brackets.

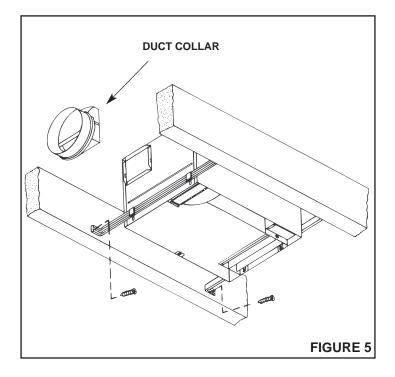
INSTALLING THE DUCTWORK

- 1. Refer to Figure 5. Install duct collar.
- Using 4" round duct, connect duct to collar and tape connection.









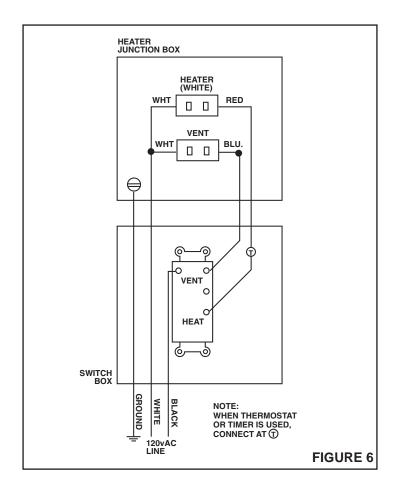
INSTALLING THE SWITCH

- 1. Install double-gang switch box in chosen location.
- Refer to Figure 6. Run wiring and make wiring connections.
- 3. Use supplied screws to secure switch bracket assembly to switch box.
- 4. Using supplied screws, secure wall plate to switch bracket.

INSTALLING AND CONNECTING THE WIRING Refer to Figure 6.

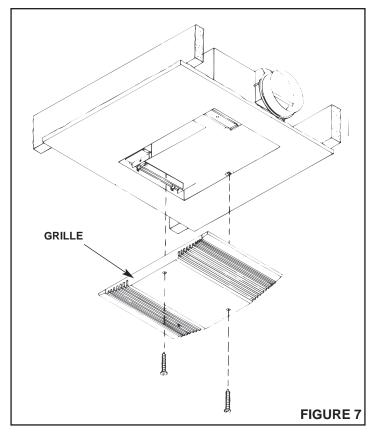
All wiring must comply with local codes and unit must be properly grounded.

- Using 12-gauge wire, run 120vAC, 60 Hz wiring (with ground) from a power source to the wall switch location.
 The unit must be wired on a separate 20 Amp circuit.
- 2. Run wiring from switch location to housing as shown in the wiring diagram.
- 3. Make wiring connections as shown in wiring diagram.
- 4. Replace junction box cover. Slide slotted hole in cover over screw. Tighten screw securely.
- 5. Secure wire cover with one screw.
- Insert heater and ventilator plugs into proper receptacles as shown.



MOUNTING THE GRILLE ASSEMBLY

1. **Refer to Figure 7.** Using two screws (provided), secure grille to housing.



INSTALLATION IN EXISTING CONSTRUCTION

In an existing, finished building, installation of the Heat-Vent Combination requires an accessible area (attic or crawl space) above the planned location. If the location that has been chosen for installation has a finished floor above it, be certain there is sufficient space available to install the housing and make the necessary duct connection.

PLANNING

Review "INSTALLATION IN NEW CONSTRUCTION" and follow all instructions that apply.

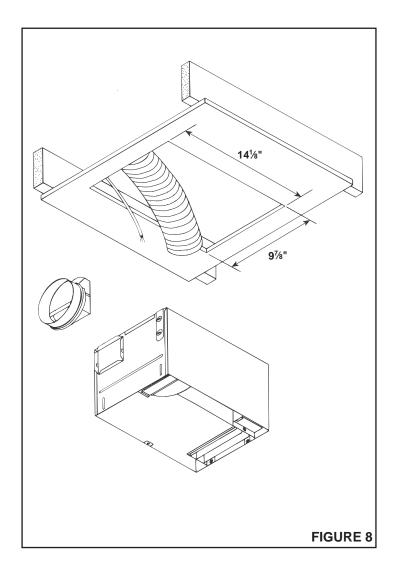
CAUTION: Check the area above the planned location to make sure that:

- (1) Ducting can be installed or that the area is sufficient for proper venting.
- (2) Wiring can be run to the planned location.
- (3) No wiring or other obstructions might interfere with the installation.

MOUNT THE HOUSING

- 1. The housing must be mounted between ceiling joists.
- Refer to Figure 8. Mark ceiling for cutout.
 Cutout dimensions: 14%" long x 9%" wide. Make cutout in ceiling.
- 3. Follow steps under "PREPARATION" page 1.
- 4. From above, lower housing into the cutout and secure hanger brackets. Install duct collar, connect duct, and run wiring through box connectors.
- 5. From below, adjust housing so that it is flush with the finished ceiling.
- 6. From below, make wiring connections as shown in figure 6.
- 7. Replace junction box cover.
- 8. Insert heater and ventilator plugs into proper receptacles.
- 9. Install grille.

NOTE: This heater is provided with a Self-Hold resetable thermal protector. If the heater shuts off during operation, turn to off at the wall switch and wait approximately 15 minutes before turning back on. If heater does not reset or trips repeatedly, contact a NuTone service center.



OPERATION

Before using heater, make sure heater has been properly installed according to all installation steps.

MAINTENANCE

The following maintenance and cleaning tasks can be performed by the user. All other servicing must be performed by an authorized technician If you have any questions, please consult with our customer service department at: 888-336-3948.

LUBRICATION

The heater is permanently lubricated and never needs oiling or disassembly.

CLEANING

Clean heater once a month as follows:

- 1. Turn off power at service panel.
- 2. Make sure heating element is cool.
- 3. Use a soft brush attachment to gently vacuum grille openings or wipe grille clean with a soft cloth.
- 4. Restore power.

CAUTION: METAL AND ELECTRICAL PARTS SHOULD NEVER BE IMMERSED IN WATER.

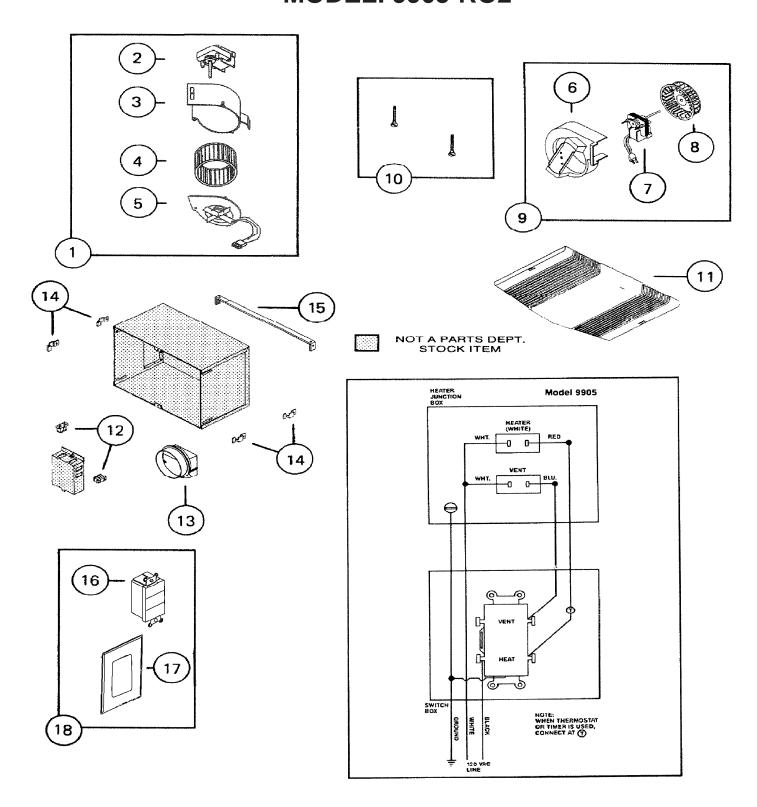
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SERVICE PARTS MODEL: 9905-RO2

Ref. No.	Old Part Number	Description	New Part Number
1	88568	B Unit Assembly (Heat)	S10941171
2	88569	Motor (Heat)	S88569000
3	61579	Heat Scroll	S61579000
4	66583	Blower Wheel (Heat)	S66583000
5	0969B	Heating Element (Includes Thermal Protector)	S0969B000
6	K3118	Scroll/Motor Bracket	Not Available
7	K3121	Motor (Vent)	\$89850000
8	K3122	Blower Wheel Vent	\$82403000
9	K3117	B Unit Assembly Vent	S10941170
10	K9012	Grille Mounting Screw Set (2)	S89323015
11	K3128	Grille Assembly - Complete	\$89322000
12	K3096	Receptacle White	S56721000
	K3160	Receptacle Black	S57977000
13	K3143	Duct Adaptor	S101183000
14	K3094	Hanger Clip 4 required	S57117000
15	K3010	Hanger Rod Assembly (1) 2 required	S85585000
16	K3149	Double Switch	S85921000
17	K3183	Wall Plate	Not available
18	K3177	Complete Switch - Hardware Bag Assembly	Not Available

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BROAN-NUTONE ONE YEAR LIMITED WARRANTY

Broan-NuTone warrants to the original consumer purchaser of its products that such products will be free from defects in materials or workmanship for a period of one year from the date of original purchase. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

During this one-year period, Broan-NuTone will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service.

THIS WARRANTY DOES NOT EXTEND TO FLUORESCENT LAMP STARTERS, TUBES, HALOGEN AND INCANDESCENT BULBS, FUSES, FILTERS, DUCTS, ROOF CAPS, WALL CAPS AND OTHER ACCESSORIES FOR DUCTING. This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by Broan-NuTone), faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the one-year period as specified for the express warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

BROAN-NUTONE'S OBLIGATION TO REPAIR OR REPLACE, AT BROAN-NUTONE'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. BROAN-NUTONE SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty supersedes all prior warranties.

To qualify for warranty service, you must (a) notify Broan-NuTone at the address or telephone number below, (b) give the model number and part identification and (c) describe the nature of any defect in the product or part. At the time of requesting warranty service, you must present evidence of the original purchase date.

Broan-NuTone LLC, 926 W. State Street, Hartford, Wisconsin 53027 www.nutone.com 888-336-3948