

FSRK-01

80% FURNACE SOUND REDUC- TION KIT

INSTALLATION INSTRUCTIONS

Goodman Manufacturing Company, L.P. © 2010
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Description

This sound reduction kit is intended to reduce the burner operating noise on Amana® and Goodman® brand 80% AFUE furnaces. This kit contains burner orifices with a #45 drill size, a new furnace control access panel, and two lighting instruction labels. This kit will reduce the furnace burner input rate by 13%. This kit is intended for use with furnaces utilizing natural gas only.



CAUTION

DO NOT USE THIS KIT WITH L.P. (LIQUEFIED PETROLEUM) INSTALLATIONS

Required Tools for Kit Installation

2	Pipe Wrenches, properly sized to accommodate the gas piping and connectors
1	7/16" box wrench or socket wrench
1	5/16" Nut driver
	Pipe joint compound or pipe thread tape
	Gas leak detection solution, like a soap and water solution. Always wipe the solution from the joints when testing is complete.



WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

Prior to installing this sound reduction kit, refer to the National Fuel Gas Code (ANSI Z223.1) or in Canada, CAN/CGA-B149.2-M91 to ensure that the installation is in compliance with those and all local codes.

PLEASE READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY.



WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.



WARNING

GOODMAN WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. THIS SOUND REDUCTION KIT **MUST BE INSTALLED BY A QUALIFIED SERVICE PERSON OR AGENCY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. FAILURE TO FOLLOW THESE INSTRUCTIONS EXPLICITLY MAY CAUSE A FIRE, EXPLOSION OR THE PRODUCTION OF CARBON MONOXIDE, WHICH CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. IF YOU INSTALL OR PERFORM SERVICE ON THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. MANY JURISDICTIONS REQUIRE A LICENSE TO INSTALL OR SERVICE HEATING AND AIR CONDITIONING EQUIPMENT.**



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION

ATTENTION INSTALLING PERSONNEL

As a professional installer, you have an obligation to know the product better than the customer.
This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair, it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense... a matter of thinking before acting.
Most dealers have a list of specific, good safety practices... follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.



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IMPORTANT INFORMATION

**DANGER**
PELIGRO



CARBON MONOXIDE POISONING HAZARD

Special Warning for Installation of Furnaces or Air Handling Units in Enclosed Areas such as Garages, Utility Rooms or Parking Areas

Carbon monoxide producing devices (such as an automobile, space heater, gas water heater, etc.) should not be operated in enclosed areas such as unventilated garages, utility rooms or parking areas because of the danger of carbon monoxide (CO) poisoning resulting from the exhaust emissions. If a furnace or air handler is installed in an enclosed area such as a garage, utility room or parking area and a carbon monoxide producing device is operated therein, there must be adequate, direct outside ventilation.

This ventilation is necessary to avoid the danger of CO poisoning which can occur if a carbon monoxide producing device continues to operate in the enclosed area. Carbon monoxide emissions can be (re)circulated throughout the structure if the furnace or air handler is operating in any mode.

CO can cause serious illness including permanent brain damage or death.

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**WARNING**

HIGH VOLTAGE
DISCONNECT ALL ELECTRICAL POWER AND SHUT OFF GAS SUPPLY BEFORE SERVICING OR INSTALLING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



CAUTION

TO AVOID THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR FIRE, SHUT OFF GAS SUPPLY FIRST, THEN DISCONNECT THE ELECTRICAL SUPPLY BEFORE PROCEEDING WITH KIT INSTALLATION.

WARNING

THIS KIT MUST NOT BE USED WITH FURNACES UTILIZING L.P. GAS. DOING SO WILL RESULT IN OVER FIRING THE FURNACE, WHICH WILL RESULT IN FURNACE OVERHEATING AND PREMATURE HEAT EXCHANGER FAILURE.

SOUND REDUCTION KIT INSTRUCTIONS

1. Turn off gas supply to the furnace.
2. Turn off the electrical power to the furnace.
3. Remove the furnace control access panel. Retain the screws to install the new access panel.
4. Separate the gas supply union and remove associated downstream piping.
5. Always use a backup wrench when removing or replacing piping to avoid any undue strains or rotation of controls.
6. Remove the wires from the gas valve.
7. Remove the 4 sheet metal screws that fasten the manifold/gas valve assembly to the burner box. Retain the screws for reassembly.
8. Using the 7/16" wrench, remove all existing natural gas orifices and replace with the #45 natural gas orifices contained in this kit. Tighten the orifices to prevent gas leaks, but do not overtighten.
9. Reinstall the manifold/gas valve assembly into the appliance. Rewire the gas valve.
10. Turn on the gas and electrical supply. Energize the appliance and check for leaks using a soap solution. Repair any leaks.

WARNING

TO AVOID THE POSSIBILITY OF EXPLOSION OR FIRE, NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.

11. Observe at least 3 ignition cycles to assure quick and smooth ignition and burner operation.
12. Identify whether the gas valve is a single stage or two stage valve. If single stage, attach 0140F00688 lighting instruction label to the inside face of the new access panel. If two stage, attach 0140F00691 lighting instruction label to the inside face of the new access panel.
13. Install the new access panel.

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NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE

Quality Makes the Difference!

All of our systems are designed and manufactured with the same high quality standards regardless of size or efficiency. We have designed these units to significantly reduce the most frequent causes of product failure. They are simple to service and forgiving to operate. We use quality materials and components. Finally, every unit is run tested before it leaves the factory. That's why we know. . . **There's No Better Quality.**

Visit our website at www.goodmanmfg.com or www.amana-hac.com for information on:

- Products
- Warranties
- Customer Services
- Parts
- Contractor Programs and Training
- Financing Options

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