

0230K00001

MINI IGNITER CONVERSION KIT

INSTALLATION INSTRUCTIONS

Goodman Manufacturing Company, L.P. © 2006
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Description

This kit Part # 0230K00001 contains a mini igniter for conversion from standard carbide igniters (B1401015S and B1401018S) used on previous Goodman furnaces. The mini igniter conversion kit is NOT approved for GSU model furnaces at this time.

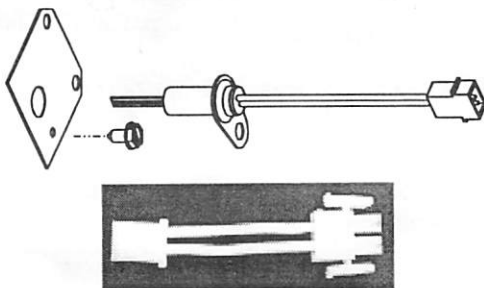
Please read and carefully follow the instructions provided in this document.

⚠ CAUTION
TURN OFF THE GAS SUPPLY TO THE FURNACE. FAILURE TO TURN OFF GAS COULD RESULT IN A FIRE OR EXPLOSION HAZARD.

⚠ WARNING
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS KIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

Contents of the Mini Igniter Conversion Kit:

1 ea.	Mini Igniter (20165703S)
1 ea.	Flat Mounting Plate (0121K00006)
1 ea.	Screw (M0219916)
1 ea.	Instruction Sheet (IO-655)
1 ea.	Adapter Harness (0130K0000S)



I. Removal Procedures

1. Disconnect the electrical power supplied to the furnace and verify power is off with a volt meter before servicing.
2. Close manual gas service valve to furnace.
3. Remove the top burner compartment door from the front of the furnace.
4. Disconnect the gas line to the inlet side of the gas valve.
5. Pay attention to the gas valve that has 24 volt wires that pull off individually. It is important to put the wires back on the correct terminal of the gas valve. Some model furnaces use a plug-in style connector to the gas valve.
6. Disconnect the wire harness plug adapter from the igniter.
7. Igniters located at the bottom of the burner box require the removal of the four (4) screws holding the gas valve manifold assembly to the burner box. Remove the entire manifold assembly for installation of the igniter. (Note: Some model furnaces may have the igniter located on top of the burner box. The manifold and burner box may require removal if a cooling coil has been installed.)
8. Locate the igniter in the lower right corner of the burner box. Remove the two (2) screws holding the igniter to the burner box and remove the igniter. (See Figure 1 on page 2. The picture shows the bottom view of the burner box rotated upward 180° so you can see the components better.)

⚠ 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.

II. Installation Procedures

1. First, take the screw supplied and pre-start the small hole in the new mounting plate. This will allow an easier installation of the igniter. Now install **ONLY** the flat mounting adapter plate supplied in the kit with the two screws used previously. Install the plate with the small hole on the right hand side. The two holes in the mounting plate will line up with the two existing holes in the bottom right corner of the burner box. (Picture illustrated shows burner box turned over 180° for visual purposes.)

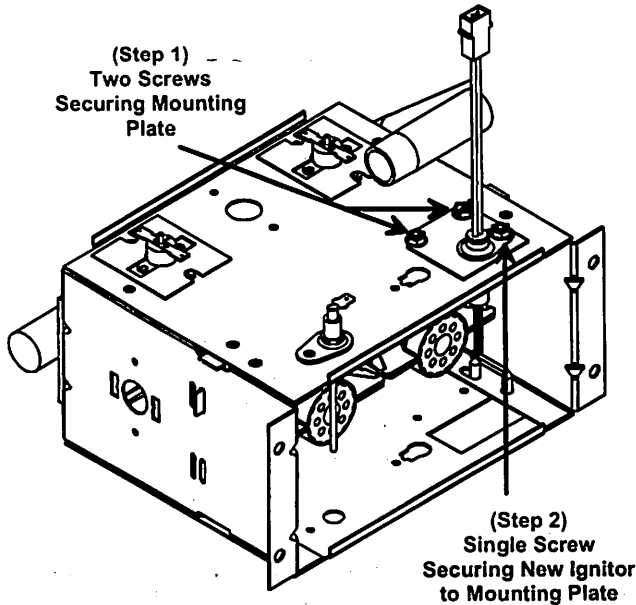


Figure 1

2. Insert igniter carefully through the hole of the new mounting plate and secure with the screw supplied in this kit. Installing the mounting plate with the small hole for the igniter on the right side, will make any future igniter replacement easier.

NOTE: Handle new igniter with care or breakage could occur.

3. Use the harness adapter supplied, as needed, in the kit to connect the new mini igniter to the furnace harness.

4. Reinstall the manifold and gas valve assembly with the four (4) screws previously used.
5. On gas valves where the 24 volt wires pull off individually from the gas valve. Make sure to reconnect wires back to the appropriate terminals of the gas valve. On the furnaces that use a plug-in style connector to the gas valve, reconnect the connector.
6. Reconnect the gas piping to the inlet side of the gas valve.
7. Turn manual gas service valve on and check for gas leaks at all connections. **NOTE: DO NOT operate furnace without doing a gas leak test.**
8. Install the front service panel and secure with existing screws.
9. Turn 115 volt electrical power on.



WARNING

LINE VOLTAGE NOW PRESENT.

10. Review information under next section entitled, **III. Operational Reminders** for proper start up, shut down and safety procedures.

III. Operational Reminders

Use the information given below to ensure the furnace is operating properly.

1. Check the supply and manifold gas pressures and make necessary adjustments as needed.
2. Inspect the main burner flames. They should be stable, quiet, soft and blue with slightly orange tips. They should not be yellow in color. They should extend directly outward from the burner ports without curling downward, floating or lifting off the ports.
3. Check for leaks at the gas valve and burner orifices with a soap solution.
4. Ensure that all wire connections are secured and tight. Wires must not interfere with main burner operation or contact high temperature surfaces.
5. Verify the furnace cycles on and cycles off properly.