

IRK001

ISOLATION RELAY KIT INSTALLATION INSTRUCTIONS

Goodman Manufacturing Company, L.P. ©2006
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DESCRIPTION

This kit is to be used with the GPC Package Air Conditioners and GPH Package Heat Pumps.

Kit Includes:

QTY.	PART NUMBER	DESCRIPTION
1	0130M00014	240 Volt Relay
1	0259G00005	Heater Harness
1	W18205160163016	Red Jumper
1	W18212160160004	Purple Jumper
1	IO-658	Installation Instructions
1	0140G00364	Wiring Diagram, Cooling Unit
1	0140G00365	Wiring Diagram, Heat Pump
2	M0233704	Screws, Self-Tapping

INSTALLATION

Please note the following abbreviations used in these Installation Instructions:

IMPORTANT ABBREVIATIONS	
BIR	Blower Interlock Relay, 240 volt
DC	Defrost Control Board
EBTDR	Electronic Blower Time Delay Relay

Refer to Figure 1 for location of components and terminals.



WARNING

HIGH VOLTAGE

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.

1. Disconnect all power to the unit.
2. Remove control box cover, blower access door, and heater kit cover.
3. Disconnect 9 pin heater harness plug from heat kit.
4. Disconnect all wires from the 9 pin heater plug harness in the control box:
 - a. Red wire from L2 on contactor.
 - b. Blue wire from 24 volt coil on contactor
 - c. White wire on DC W2 terminal on GPH Package Heat Pump models, or from T-stat connection on GPC Air Conditioner models.
 - d. Purple wire on EBDTR NC terminal.
 - e. Brown wire from T-stat connections.
5. Remove 9 pin heater plug harness.
6. Attach BIR (provided) (see ①) with self-tapping screws (provided) under left side of transformer. There is a dimple on the control box that can be used for the top screw.

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.

7. Connect purple jumper wire (provided) from BIR terminal 2 to EBTDR NC terminal (see ②).
8. Connect red jumper wire (provided) from BIR terminal 4 to contactor L2 (see ③). (Insulated terminal goes to BIR.)
9. Feed plug wires from new heater harness (provided) from heater kit through control box bottom.
10. Connect heater harness wires as follows:
 - a. Blue wire to contactor 24 volt coil common (top) terminal (see ④).
 - b. White wire to DC W2 (see ⑤) terminal on GPH Package Heat Pump models, or T-Stat connection on GPC Package Air Conditioning models. On GPC Package Air Conditioner models, cut off the terminal and strip the wires on the T-stat end.
 - c. Purple wire to BIR terminal 1.
 - d. Black wire to BIR terminal 3.
 - e. Brown wire to T-stat connections.
11. Connect heater plug to heat kit plug.
12. Replace wiring diagram on control box cover with appropriate wiring diagram from kit. (Part # 0140G00365 for GPH Package Heat Pump models or Part #0140G00364 for GPC Package Air Conditioner models.)
13. Replace heater kit cover, blower access door, and control box cover.
14. Turn power on and test unit functions.

CONTROL BOARD (FRONT VIEW)

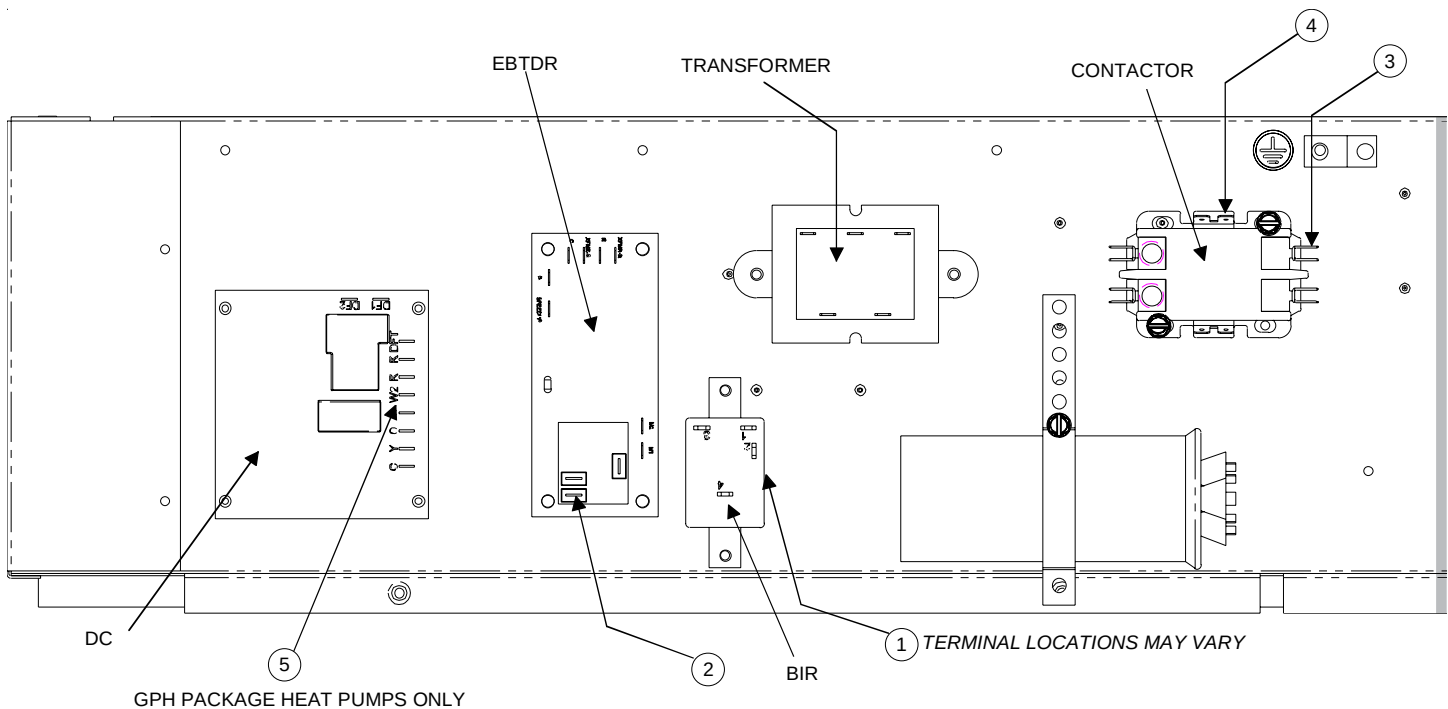


Figure 1.

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.**

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