

Installer's Guide



Return Air Pressure Transducer Kit

This kit is used on Link Communicating & Link 24VAC Furnaces

Kit Model:
BAYFURNPTKT

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT - This document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

1. Safety Considerations

IMPORTANT: Follow all Warnings and Cautions in the air handler Installer's Guide.

⚠ WARNING

THE INFORMATION IN THIS GUIDE IS FOR USE BY INDIVIDUALS HAVING ADEQUATE ELECTRICAL AND MECHANICAL BACKGROUND. ANY ATTEMPTS, BY UNQUALIFIED PERSONS, AT PLUMBING, INSTALLING OR REPAIRING A HYDRONIC SYSTEM OR CENTRAL AIR CONDITIONING PRODUCT COULD RESULT IN PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIABILITY IN CONNECTION WITH ITS USE.

⚠ WARNING

ELECTRICAL HAZARD!
DISCONNECT ALL ELECTRICAL POWER, INCLUDING REMOTE DISCONNECTS BEFORE INSTALLING OR SERVICING. FOLLOW PROPER LOCKOUT/TAGOUT PROCEDURES TO ENSURE THE POWER CAN NOT BE INADVERTENTLY ENERGIZED. FAILURE TO FOLLOW THIS WARNING COULD RESULT IN SERIOUS PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE.

2. Inspection

1. Unpack all components of the kit.
2. Check carefully for any shipping damage. If any damage is found, this must be reported immediately and a claim made against the transportation company.
3. Check to be sure all components are in the package. Any missing components should be reported to your supplier at once and replaced with authorized components only.

3. General Information

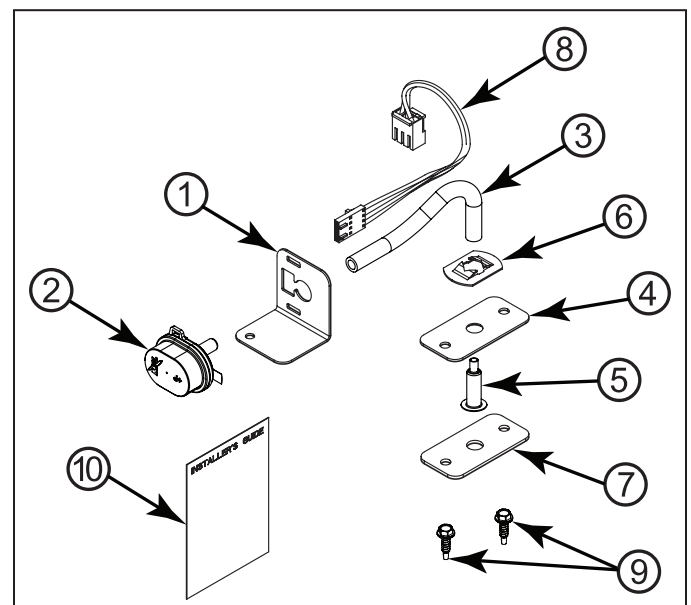
The BAYFURNPTKT kit includes a pressure transducer and hoses. The transducer mounts to the blower vestibule panel adjacent to the IFC.

Note: This kit is used to read return air static pressure for diagnostic purposes.

4. Kit Contents

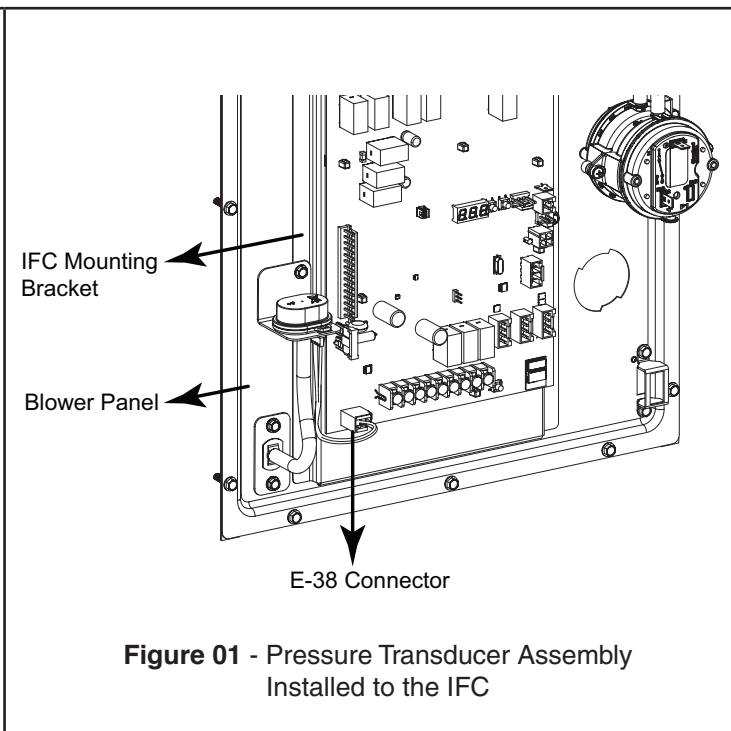
Each kit will contain:

Item	Qty	Description
1	1	Mounting Bracket
2	1	Pressure Transducer (0-2")
3	1	Reference Hose
4	1	Mounting Plate
5	1	Pressure Port
6	1	Tinnerman Clip
7	1	Gasket for the Mounting Plate
8	1	Wire Harness
9	2	1/4" Hex Head Screw
10	1	Installer's Guide



5. Installation Instructions

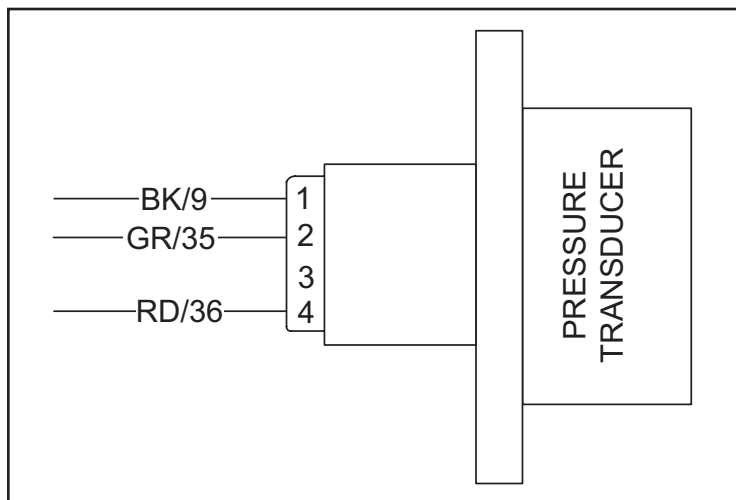
1. Remove power from the furnace.
2. Remove the front panel from the furnace.
3. Disconnect the tubing from the mounting plate assembly.
4. Place the mounting plate assembly on the blower panel per Figure 01 and mark the screw holes with a pencil or marker.
5. Drill a 3/8" hole halfway between the screw holes.
Note: Be careful not to damage any components on the backside of the blower panel.
6. Place the mounting plate over the 3/8" hole, align the screw holes, and install the factory supplied screws.
7. Remove the left screw on the IFC mounting bracket, place the transducer/ bracket over the hole and install screws.
8. Connect tubing and wiring harness to IFC E-38 connector.
9. To enable the Return Static Pressure Transducer:
 - a. Connect to the Mobile Diagnostics app and go to the Configuration Menu / Accessories section and "Enable Pressure Sensor".



6. Pressure Transducer Readings

Source Voltage 5Vdc Pins 2-3 (GR-RD)	
Pressure Inches W.C.	Transducer Signal Vdc Pins 1-2 (GR-BK)
0.00	0.25
0.10	0.44
0.20	0.63
0.30	0.81
0.40	1.00
0.50	1.19
0.60	1.38
0.70	1.56
0.80	1.75
0.90	1.94
1.00	2.13
1.10	2.31
1.20	2.50
1.30	2.69
1.40	2.88
1.50	3.06
1.60	3.25

Source Voltage 5Vdc Pins 2-3 (GR-RD)	
Pressure Inches W.C.	Transducer Signal Vdc Pins 1-2 (GR-BK)
1.70	3.44
1.80	3.63
1.90	3.81
2.00	4.00



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