

Installation Instructions

LP Conversion Kit

Precedent™ Packaged Rooftop Units

3 to 25 Tons Two-Stage

Model Numbers:

FIALPKT001*

FIALPKT002*

FIALPKT003*

Used With:

(Y,D)**(036-060)A**(0,A)(L,M,H)

(Y,D)**(072-120)A**(0,A)(L,M,H)

YS*150A**(0,A)(L,M,H)

YS*(180-300)A**(0,A)(L,M,H)

Y(H,Z)*(150-300)A**(0,A)(L,M,H)

D(S,H)*(150-300)A**(0,A)(L,M,H)

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

- ⚠ WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- ⚠ CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
- NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury. All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in **NEC** and your local/state/national electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, **MUST** follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). **ALWAYS** refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians **MUST** put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit. **NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

⚠ WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

⚠ WARNING

R-454B Flammable A2L Refrigerant!

Failure to use proper equipment or components as described below could result in equipment failure, and possibly fire, which could result in death, serious injury, or equipment damage.

The equipment described in this manual uses R-454B refrigerant which is flammable (A2L). Use ONLY R-454B rated service equipment and components. For specific handling concerns with R-454B, contact your local representative.

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Revision History

- Used with model number information updated.
- Added instructions for FIALPKT001*.
- Updated the unit data table for FIALPKT002* and FIALPKT003*.

Table of Contents

Inspection	5
Parts List	5
Burner Inspection – 3 to 25 Tons	6
Installation – FIALPKT001/02**	8
Conversion Procedure	10
Installation – FIALPKT003*	13
Conversion Procedure	14

Inspection

1. Unpack all components of the kit.
2. Check carefully for shipping damage. If any damage is found, report it immediately, and file a claim against the transportation company.

Parts List

This kit contains the correct parts required for LP conversion. Refer to [Table 5, p. 8](#) for FIALPKT001*, [Table 6, p. 9](#) for FIALPKT002*, and [Table 7, p. 13](#) for FIALPKT003* to determine proper orifice selection.

Table 1. FIALPKT001*

Qty	Description
1	Blockoff Plate - 2 Hole
1	Blockoff Plate - 3 Hole
1	Blockoff Plate - 4 Hole
1	Blockoff Plate - 5 Hole
2	Sheet Metal Screws 10-16 x 1/2
2	Drill #50 - 0.070 in. Dia. Orifice Spuds
4	Drill #51 - 0.067 in. Dia. Orifice Spuds
5	Drill #52 - 0.064 in. Dia. Orifice Spuds
5	Drill #53 - 0.0595 in. Dia. Orifice Spuds
5	Drill #54 - 0.0550 in. Dia. Orifice Spuds
3	1/16 in. - 0.0625 in. Dia. Orifice Spuds
1	LP Nameplate Label
1	LP Conversion Spring Kit
1	LP Conversion Literature
1	1.420 in. Air Orifice, Part No. 436646153410
1	1.643 in. Air Orifice, Part No. 436646151710
1	1.844 in. Air Orifice, Part No. 436646150310
1	2.000 in. Air Orifice, Part No. 436646151310
1	2.400 in. Air Orifice, Part No. 436646152410

Table 2. FIALPKT002*

Qty	Description
1	Blockoff Plate - 3 Hole
1	Blockoff Plate - 4 Hole
1	Blockoff Plate - 6 Hole
2	10-16 x 1/2 Sheet Metal Screws
4	Drill #46 - 0.081 in. Dia. Orifice Spuds
6	Drill #48 - 0.076 in. Dia. Orifice Spuds
3	Drill #49 - 0.073 in. Dia. Orifice Spuds
4	Drill #50 - 0.070 in. Dia. Orifice Spuds
6	Drill #51 - 0.067 in. Dia. Orifice Spuds
6	Drill 1.80 mm - 0.0709 in. Dia. Orifice Spuds
3	Drill #53 - 0.0595 in. Dia Orifice Spuds
1	LP Nameplate Label
1	LP Conversion Spring Kit

Table 2. FIALPKT002* (continued)

Qty	Description
1	1.643 in. Air Orifice, Part No. 436646151710
1	1.844 in. Air Orifice, Part No. 436646150310
1	2.000 in. Air Orifice, Part No. 436646151310
1	2.100 in. Air Orifice, Part No. 436646151810
1	2.250 in. Air Orifice, Part No. 436646150410
1	2.500 in. Air Orifice, Part No. 436646152910

Table 3. FIALPKT003*

Qty	Description
8	Drill #46 - 0.0810 in. Dia. Orifice Spuds
8	Drill #47 - 0.0785 in. Dia. Orifice Spuds
5	Drill #49 - 0.0730 in. Dia. Orifice Spuds
7	Drill #50 - 0.0700 in. Dia. Orifice Spuds
5	Drill #52 - 0.0640 in. Dia. Orifice Spuds
1	LP Nameplate Label
1	LP Conversion Literature
1	LP Conversion Spring Kit

Burner Inspection – 3 to 25 Tons

Important: This is a critical procedure and instructions must be followed closely before making any LP conversion to the unit.

Follow these instructions to inspect and confirm the correct burners are factory installed in the unit before making any Natural Gas to LP Gas conversion to the unit models.

⚠ WARNING

Hazard of Explosion or Fire!

Failure to follow instructions could result in death or serious injury and equipment or property damage. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

IF YOU SMELL GAS, follow instructions below:

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Open windows and doors.
- Alert others and evacuate building immediately.
- From a phone outside of the building, immediately call your gas supplier. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

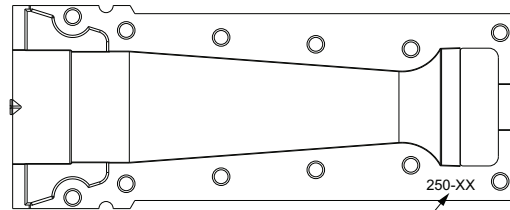
⚠ WARNING

Hazardous Voltage and Gas!

Failure to turn off gas or disconnect power before servicing could result in an explosion or electrocution which could result in death or serious injury. Turn off the gas supply and disconnect all electric power, including remote disconnects, before servicing the unit. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized.

1. Turn the thermostat selector switch OFF.
2. Open the unit electrical disconnect switch.
3. Shut off gas supply to the unit.
4. Remove gas valve access panel.
5. Locate the stamping identification on each burner installed in the unit. Refer to [Figure 1](#) for stamping identification location.

Figure 1. Burner stamping identification location



See unit gas burner size table for correct burner size

- Note:** Older burners will have the supplier part number as a stamping identification on the burner. Refer to [Table 4, p. 7](#).
6. Confirm correct burners are installed in the unit. Refer to [Table 4, p. 7](#) for the correct burner sizes.
 7. If all correct burners are installed, proceed with unit Natural gas to LP gas conversion and follow FIALPKT001*, FIALPKT002* or FIALPKT003* instructions.
 8. If wrong burners are found in the unit, install the gas valve access panel.
 9. Do not turn on the gas supply to the unit.
 10. Do not turn on the power to the unit.
 11. Follow lock out, tag out procedures.
 12. Order and install the correct size burners. Refer to [Table 4, p. 7](#) for the correct burner sizes.
 13. Once correct burners are installed, proceed with unit Natural gas to LP gas conversion and follow FIALPKT001*, FIALPKT002* or FIALPKT003* instructions.

Table 4. Unit gas burner size

Tons	Unit Model Number	Burner Insert Dia	Unit Model Number digit 10 = 0 Base Model(e)			Unit Model Number digit 10 = A Stainless Steel Gas Heat(e)				
			Burner Material	Stamping Identification	Supplier Part Number	Service Part Number	Burner Material	Stamping Identification	Supplier Part Number	Service Part Number
Cooling and Gas Heat Models										
3 to 12.5	Y(S,H,Z)*(036-150)A**(0,A)(L,M,H)	0.600 I.D.	Aluminized Steel	250-04	TR079	BNR01302	Stainless Steel	250-02	TR025/TR035	BNR01071
15 to 25	Y(S,H,Z)*(180-300)A**(0,A)(L,M,H)	0.700 I.D.	Aluminized Steel	250-03	TR078	BNR01301	Stainless Steel	250-01	TR026/TR036	BNR01070
Dual Fuel Models										
3 to 12.5	D(S,H)*(036-150)A**(0,A)(L,M,H)	0.600 I.D.	Aluminized Steel	250-04	TR079	BNR01302	Stainless Steel	250-02	TR025/TR035	BNR01071
15 to 25	D(S,H)*(180-300)A**(0,A)(L,M,H)	0.700 I.D.	Aluminized Steel	250-03	TR078	BNR01301	Stainless Steel	250-01	TR026/TR036	BNR01070

(a) Burner material is dependent on digit 10. The base model should have aluminized burners, stainless steel gas heater should have stainless steel burners.

Installation – FIALPKT001/02**

Carefully review installation instructions to convert gas package unit models from natural gas to LP gas.

Important: This is a critical procedure and instructions must be followed closely after unit burner inspection is complete.

Table 5. LP orifice size selection for FIALPKT001*

Tons	Unit Model Number	Gas Heat Input Rating				LP Gas Orifice Size	Air Orifice Plate (Part No. Last 4 Digits)	Air Orifice Diameter (inches)
		Natural Gas		LP				
		MBH	kW	MBH	kW			
Cooling Only with Gas Heat Models (YS/YH/YZ)								
3	Y(S,H)*036A**(0,A)L	80	23.4	72	21.1	Drill #50	1310	2.000
	Y(S,H)*036A**(0,A)M	100	29.3	90	26.3	Drill 1/16"	0310	1.844
	Y(S,H)*036A**(0,A)H	120	35.1	105	30.7	Drill #53	1310	2.000
	YZ*036A**(0,A)L	80	23.4	75	21.9	Drill #53	3410	1.420
	YZ*036A**(0,A)M	100	29.3	100	29.3	Drill #53	1710	1.643
	YZ*036A**(0,A)H	120	35.1	115	33.7	Drill #54	1710	1.643
4	YS*048A**(0,A)L	80	23.4	72	21.1	Drill #50	0310	1.844
	YS*048A**(0,A)M	100	29.3	90	26.3	Drill 1/16"	0310	1.844
	YS*048A**(0,A)H	130	38.0	105	30.7	Drill #53	1310	2.000
	Y(H,Z)*048A**(0,A)L	80	23.4	75	21.9	Drill #53	3410	1.420
	Y(H,Z)*048A**(0,A)M	100	29.3	100	29.3	Drill #53	1710	1.643
	Y(H,Z)*048A**(0,A)H	130	38.0	130	38.0	Drill #53	0310	1.844
5	YS*060A**(0,A)L	80	23.4	72	21.1	Drill #50	1710	1.643
	YS*060A**(0,A)M	100	29.3	90	26.3	Drill 1/16"	1310	2.000
	YS*060A**(0,A)H	150	43.9	135	39.5	Drill #51	2410	2.400
	Y(H,Z)*060A**(0,A)L	80	23.4	75	21.9	Drill #53	3410	1.420
	Y(H,Z)*060A**(0,A)M	100	29.3	100	29.3	Drill #53	1710	1.643
	Y(H,Z)*060A**(0,A)H	150	43.9	150	43.9	Drill #52	1310	2.000
Dual Fuel Models (DS/DH)								
3	DS*036A**(0,A)L	80	23.4	72	21.1	Drill #50	1310	2.000
	DS*036A**(0,A)M	100	29.3	90	26.3	Drill 1/16"	0310	1.844
	DS*036A**(0,A)H	120	35.1	105	30.7	Drill #53	1310	2.000
	DH*036A**(0,A)L	80	23.4	75	21.9	Drill #53	3410	1.420
	DH*036A**(0,A)M	100	29.3	100	29.3	Drill #53	1710	1.643
	DH*036A**(0,A)H	120	35.1	115	33.7	Drill #54	1710	1.643
4	DS*048A**(0,A)L	80	23.4	72	21.1	Drill #50	0310	1.844
	DS*048A**(0,A)M	100	29.3	90	26.3	Drill 1/16"	0310	1.844
	DS*048A**(0,A)H	130	38.0	105	30.7	Drill #53	1310	2.000
	DH*048A**(0,A)L	80	23.4	75	21.9	Drill #53	3410	1.420
	DH*048A**(0,A)M	100	29.3	100	29.3	Drill #53	1710	1.643
	DH*048A**(0,A)H	130	38.0	130	38.0	Drill #53	0310	1.844

Table 5. LP orifice size selection for FIALPKT001* (continued)

Tons	Unit Model Number	Gas Heat Input Rating				LP Gas Orifice Size	Air Orifice Plate (Part No. Last 4 Digits)	Air Orifice Diameter (inches)
		Natural Gas		LP				
		MBH	kW	MBH	kW			
5	DS*060A**(0,A)L	80	23.4	72	21.1	Drill #50	1710	1.643
	DS*060A**(0,A)M	100	29.3	90	26.3	Drill 1/16"	1310	2.000
	DS*060A**(0,A)H	150	43.9	135	39.5	Drill #51	2410	2.400
	DH*060A**(0,A)L	80	23.4	75	21.9	Drill #53	3410	1.420
	DH*060A**(0,A)M	100	29.3	100	29.3	Drill #53	1710	1.643
	DH*060A**(0,A)H	150	43.9	150	43.9	Drill #52	1310	2.000

Table 6. LP orifice size selection for FIALPKT002*

Tons	Unit Model Number	Gas Heat Input Rating				LP Gas Orifice Size	Air Orifice Plate (Part No. Last 4 Digits)	Air Orifice Diameter (inches)
		Natural Gas		LP				
		MBH	kW	MBH	kW			
Cooling Only with Gas Heat Models (YS/YH/YZ)								
6	Y(S,H,Z)*072A**(0,A)L	80	23.4	80	23.4	Drill #53	1710	1.643
	Y(S,H,Z)*072A**(0,A)M	120	35.2	120	35.2	Drill #49	0310	1.844
	Y(S,H,Z)*072A**(0,A)H	150	44	150	44	Drill #50	1310	2.000
7.5	Y(S,H,Z)*090A**(0,A)L	120	35.2	120	35.2	Drill #49	0310	1.844
	Y(S,H,Z)*090A**(0,A)M	150	44	150	44	Drill #50	1310	2.000
	Y(S,H,Z)*090A**(0,A)H	200	58.6	200	58.6	Drill #51	0410	2.250
8.5	Y(S,H,Z)*102A**(0,A)L	120	35.2	120	35.2	Drill #49	0310	1.844
	Y(S,H,Z)*102A**(0,A)M	150	44	150	44	Drill #50	1310	2.000
	Y(S,H,Z)*102A**(0,A)H	200	58.6	200	58.6	Drill #51	0410	2.250
10	Y(S,H)*120A**(0,A)L	150	44	150	44	Drill #50	1810	2.100
	Y(S,H)*120A**(0,A)M	200	58.6	200	58.6	Drill #51	0410	2.250
	Y(S,H)*120A**(0,A)H	240	70.3	240	70.3	Drill 1.8mm	2910	2.500
	YZ*120A**(0,A)L	150	44	150	44	Drill #50	2910	2.500
	YZ*120A**(0,A)M	200	58.6	200	58.6	Drill #46	Remove	No Plate
	YZ*120A**(0,A)H	250	73.2	250	73.2	Drill #48	Remove	No Plate
12.5	YS*150A**(0,A)L	150	44	150	44	Drill #50	2910	2.500
	YS*150A**(0,A)M	200	58.6	200	58.6	Drill #46	Remove	No Plate
	YS*150A**(0,A)H	250	73.2	250	73.2	Drill #48	Remove	No Plate
Dual Fuel Models (DS/DH)								
6	D(S,H)*072A**(0,A)L	80	23.4	80	23.4	Drill #53	1710	1.643
	D(S,H)*072A**(0,A)M	120	35.2	120	35.2	Drill #49	0310	1.844
	D(S,H)*072A**(0,A)H	150	44	150	44	Drill #50	1310	2.000
7.5	D(S,H)*090A**(0,A)L	120	35.2	120	35.2	Drill #49	0310	1.844
	D(S,H)*090A**(0,A)M	150	44	150	44	Drill #50	1310	2.000
	D(S,H)*090A**(0,A)H	200	58.6	200	58.6	Drill #51	0410	2.250
8.5	D(S,H)*102A**(0,A)L	120	35.2	120	35.2	Drill #49	0310	1.844
	D(S,H)*102A**(0,A)M	150	44	150	44	Drill #50	1310	2.000
	D(S,H)*102A**(0,A)H	200	58.6	200	58.6	Drill #51	0410	2.250

Installation – FIALPKT001/02**

Table 6. LP orifice size selection for FIALPKT002* (continued)

Tons	Unit Model Number	Gas Heat Input Rating				LP Gas Orifice Size	Air Orifice Plate (Part No. Last 4 Digits)	Air Orifice Diameter (inches)
		Natural Gas		LP				
		MBH	kW	MBH	kW			
10	D(S,H)*120A**(0,A)L	150	44	150	44	Drill #50	2910	2.500
	D(S,H)*120A**(0,A)M	200	58.6	200	58.6	Drill #46	Remove	No Plate
	D(S,H)*120A**(0,A)H	250	73.2	250	73.2	Drill #48	Remove	No Plate

Conversion Procedure

Note: Conversion should be made after unit burner inspection is complete and prior to installation of equipment at the job site.

1. Turn the thermostat selector switch to the OFF.

⚠ WARNING

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Verify with a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

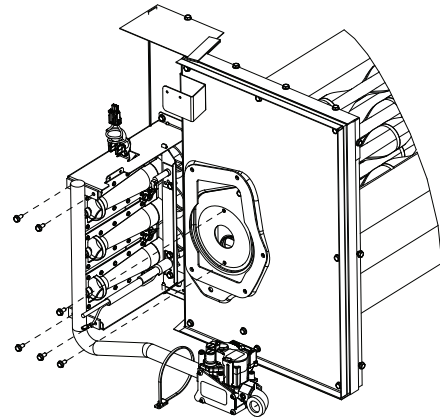
⚠ WARNING

Hazardous Voltage and Gas!

Failure to turn off gas or disconnect power before servicing could result in an explosion or electrocution which could result in death or serious injury. Turn off the gas supply and disconnect all electric power, including remote disconnects, before servicing the unit. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized.

2. Open the unit electrical disconnect switch.
3. Shut off gas supply to the unit.
4. Remove gas valve access panel.
5. Break the external pipe union.
6. Disconnect the field gas connection pipe from the unit street elbow.
7. Remove four screws from manifold bracket. See [Figure 2](#), p. 10.

Figure 2. Remove screws from manifold bracket



8. Remove natural gas orifices from manifold. See [Figure 3](#), p. 10.

Figure 3. Remove gas orifices

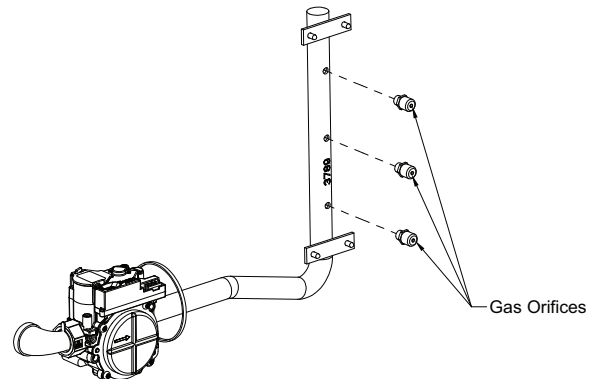


Figure 4. Remove burner bracket assembly

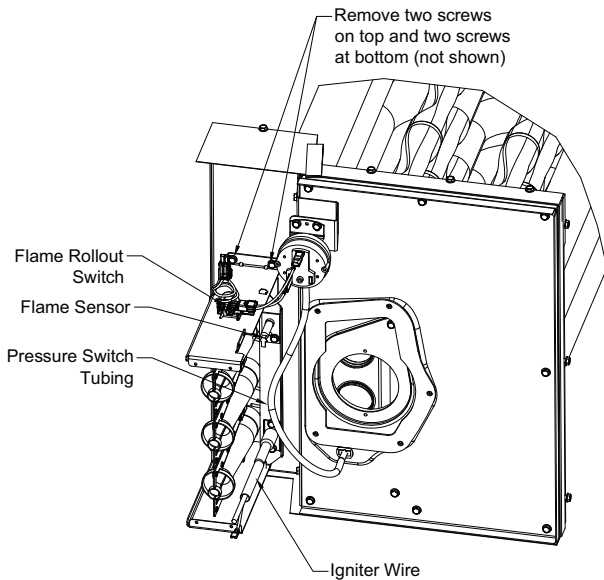
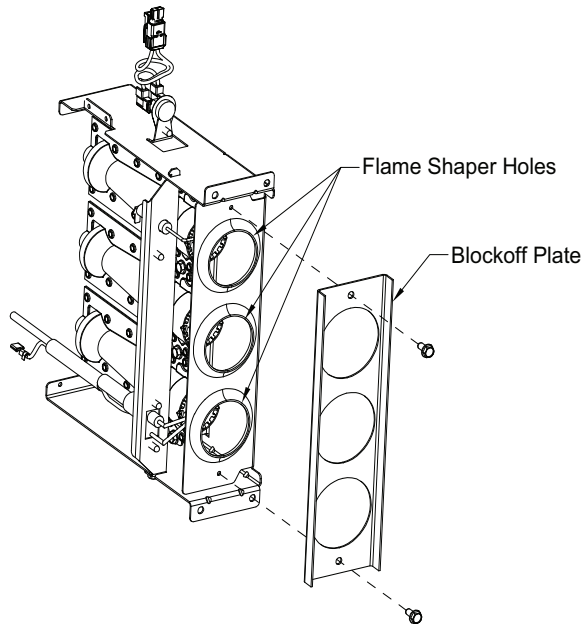


Figure 5. Install flame shaper blockoff plate

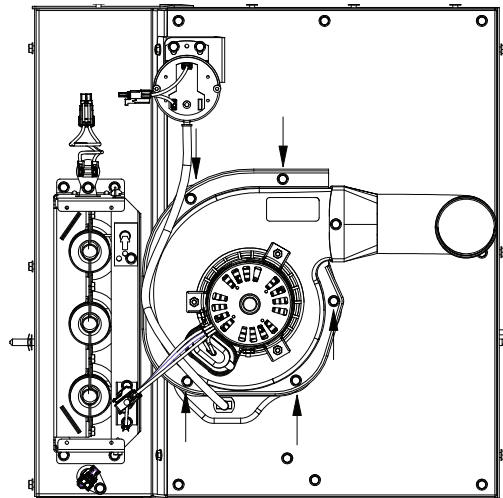


9. Install LP orifices, specified in [Table 5, p. 8](#) for FIALPKT001* and [Table 6, p. 9](#) for FIALPKT002* by engaging threads of manifold and tightening orifice three and one half turns.
10. Disconnect the wiring leads attached to the flame rollout switch, flame sensor, and igniter wire. See [Figure 4, p. 11](#).
11. Remove the four screws securing the burner bracket assembly to the heat exchanger vestibule.
12. Install the appropriate size flame shaper blockoff plate with two sheet metal screws provided. If there are no

attachment holes in the burner bracket carefully secure utilizing the two self drilling screws. See [Figure 5, p. 11](#).

13. Reinstall burner bracket assembly with blockoff plate, reconnect all wiring and tubing connections, and reinstall manifold bracket with the LP orifices.
14. If the unit model as listed in [Table 5, p. 8](#) for FIALPKT001* and [Table 6, p. 9](#) for FIALPKT002* requires a change to the air orifice plate or no orifice plate, perform [Step 15](#) through [Step 20](#); otherwise, proceed to [Step 21](#).
15. Disconnect the inducer motor wiring harness.
16. Remove the five screws securing the inducer motor assembly (see [Figure 6, p. 11](#)).
17. Remove the inducer motor assembly.
18. Remove the two screws securing the air orifice plate (see [Figure 2, p. 10](#)).
19. Remove or install the air orifice plate if required, as noted in [Table 5, p. 8](#) for FIALPKT001* and [Table 6, p. 9](#) for FIALPKT002*.
20. Installation is the reverse of [Step 15](#) through [Step 18](#).

Figure 6. Remove five screws securing inducer motor assembly



21. Remove HIGH regulator brass cap.
22. Remove regulator adjustment screw (beneath the cover screw).
23. Remove the Natural Gas regulator spring from regulator sleeve (gold spring).
24. Insert the LP regulator spring (provided in the included spring kit) into the regulator sleeve (white spring).
25. Replace the regulator adjustment screw.
26. Reverse the disassembly procedure and secure all components in their respective position.
27. Reconnect gas valve wiring connector if disconnected previously.

Figure 7. 36H gas valve layout

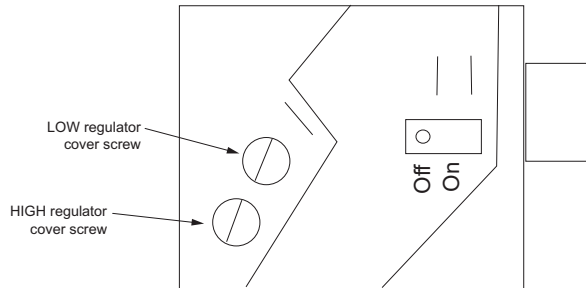
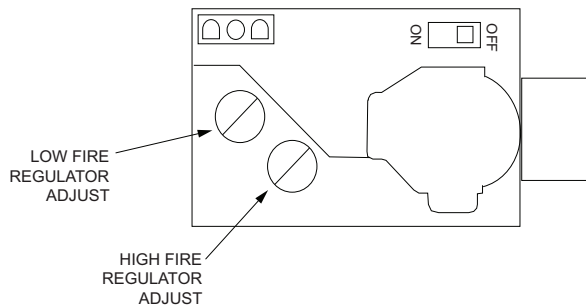


Figure 8. 36G two-stage gas valve layout



28. Attach the nameplate and label supplied with the conversion kit below the unit nameplate.
29. Check all piping joints and electrical connections for tightness.
30. Turn on the gas supply to unit.
31. Measure the supply gas pressure. If the pressure exceeds 14 inches water column (34.8 mbar), reset the regulator at the gas supply.
32. Restore unit power.
33. Place the thermostat selector switch to the HEAT position and adjust the setpoint indicator to its highest setting. The burners should light.
34. If required, adjust the unit high regulator manifold pressure to 10 inches water column (24.9 mbar) per the rating plate. Adjust the unit low regulator manifold pressure to 4.9 inches water column (12.2 mbar).

Note: A spring change is not required on the low regulator for LP. Install the access panel.

Installation – FIALPKT003*

Carefully review installation instructions to convert gas package unit models from natural gas to LP gas.

Important: This is a critical procedure and instructions must be followed closely after unit burner inspection is complete.

Table 7. LP orifice size selection for FIALPKT003*

Tons	Unit Model Number	Gas Heat Input Rating		LP Gas Orifice Size
		MBH	kW	
Cooling Only with Gas Heat Models (YS/YH/YZ)				
12.5	Y(H,Z)*150A**(0,A)L	150	43.9	Drill #52
	Y(H,Z)*150A**(0,A)M	200	58.6	Drill #49
	Y(H,Z)*150A**(0,A)H	250	73.2	Drill #50
15	Y(S,H,Z)*180A**(0,A)L	250	73.2	Drill #46
	Y(S,H,Z)*180A**(0,A)M	320	93.7	Drill #47
	Y(S,H,Z)*180A**(0,A)H	400	117.2	Drill #46
17.5	Y(S,H,Z)*210A**(0,A)L	250	73.2	Drill #46
	Y(S,H,Z)*210A**(0,A)M	320	93.7	Drill #47
	Y(S,H,Z)*210A**(0,A)H	400	117.2	Drill #46
20	Y(S,H,Z)*240A**(0,A)L	250	73.2	Drill #46
	Y(S,H,Z)*240A**(0,A)M	320	93.7	Drill #47
	Y(S,H,Z)*240A**(0,A)H	400	117.2	Drill #46
25	Y(S,H,Z)*300A**(0,A)L	250	73.2	Drill #46
	Y(S,H,Z)*300A**(0,A)M	320	93.7	Drill #47
	Y(S,H,Z)*300A**(0,A)H	400	117.2	Drill #46
Dual Fuel Models (DS/DH)				
12.5	D(S,H)*150A**(0,A)L	150	43.9	Drill #52
	D(S,H)*150A**(0,A)M	200	58.6	Drill #49
	D(S,H)*150A**(0,A)H	250	73.2	Drill #50
15	D(S,H)*180A**(0,A)L	250	73.2	Drill #46
	D(S,H)*180A**(0,A)M	320	93.7	Drill #47
	D(S,H)*180A**(0,A)H	400	117.2	Drill #46
17.5	D(S,H)*210A**(0,A)L	250	73.2	Drill #46
	D(S,H)*210A**(0,A)M	320	93.7	Drill #47
	D(S,H)*210A**(0,A)H	400	117.2	Drill #46
20	D(S,H)*240A**(0,A)L	250	73.2	Drill #46
	D(S,H)*240A**(0,A)M	320	93.7	Drill #47
	D(S,H)*240A**(0,A)H	400	117.2	Drill #46
25	D(S,H)*300A**(0,A)L	250	73.2	Drill #46
	D(S,H)*300A**(0,A)M	320	93.7	Drill #47
	D(S,H)*300A**(0,A)H	400	117.2	Drill #46

Conversion Procedure

Note: Conversion should be made after unit burner inspection is complete and prior to installation of equipment at the job site.

1. Turn the thermostat selector switch to the OFF.

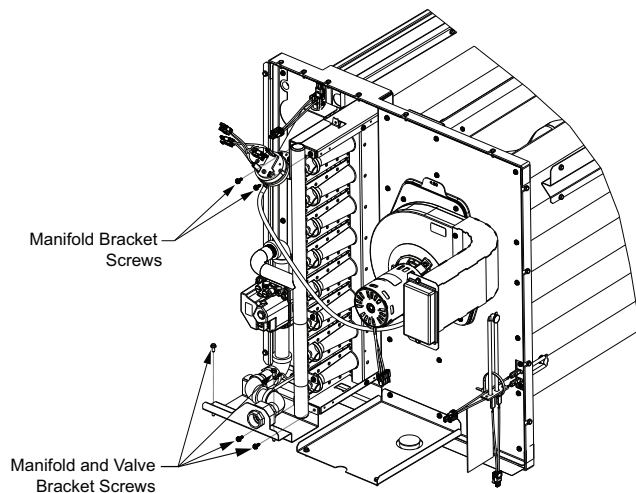
⚠ WARNING

Hazardous Voltage and Gas!

Failure to turn off gas or disconnect power before servicing could result in an explosion or electrocution which could result in death or serious injury. Turn off the gas supply and disconnect all electric power, including remote disconnects, before servicing the unit. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized.

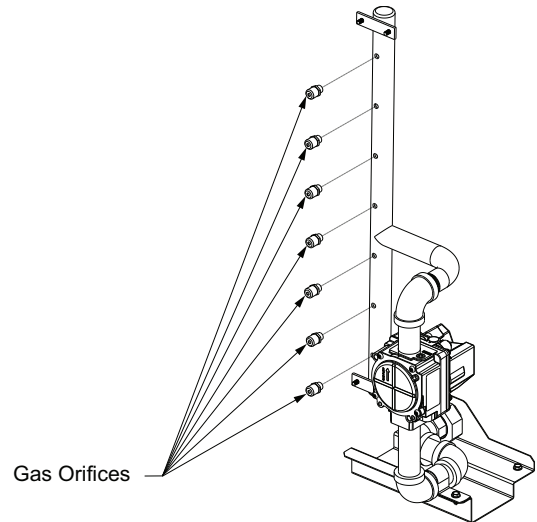
2. Open the unit electrical disconnect switch.
3. Shut off gas supply to the unit.
4. Remove gas valve access panel.
5. Break the external pipe union.
6. Disconnect the field gas connection pipe from the unit internal pipe union.
7. Remove four screws from manifold bracket and two screws from valve support bracket. See [Figure 9, p. 14](#).

Figure 9. Remove screws from manifold bracket



8. Remove natural gas orifices from manifold. See [Figure 10, p. 14](#).

Figure 10. Remove gas orifices



9. Install LP orifices specified in [Table 7, p. 13](#). Engage threads of manifold and tighten orifice three- and one-half turns.
10. Install LP gas valve spring. Follow instructions provided with the conversion spring kit.
11. With the LP orifices in place, reverse the disassembly procedure and secure all components in their respective position.
12. Attach the nameplate and label supplied with the conversion kit below the unit nameplate.
13. Check all piping joints and electrical connections for tightness.
14. Turn on the gas supply to unit.
15. Measure the gas pressure. If the pressure exceeds 14 inches water column (34.8 mbar), reset the regulator at the gas supply.
16. Restore unit power.
17. Place the thermostat selector switch to the HEAT position and adjust the setpoint indicator to its highest setting. The burners should light.
18. Adjust the unit manifold pressure to 10 inches water column (24.9 mbar) per the rating plate.
19. Install the access panel.

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