

IntelliFire Touch® Gas Conversion Instructions

NGK-MI-IFT, LPK-MI-IFT

MODELS: COSMO-I30-IFT, COSMO-I35-IFT, EXCURSION-I, EXCURSION-II, EXCURSION-III, RUBY25I, RUBY30I, RUBY35I, RUBYP30IN, RUBYP30IN-BIR, RUBYP30IL, SUPREME-I25-BIR, SUPREME-I30-BIR, SUPREME-I35-BIR, SUPREME-I30-IFT, SUPREME-I25-IFT, SUPRM-I30LP-IFT SUPREME-I35-IFT, SUPREME-I25-BIR, SUPREME-I35-BIR, SUPREMEX-I30, SUPREMEX-I30BIR, TRILLIANT25I, TRILLIANT30I, TRILLIANT35I

Conversion Instructions

This conversion shall be installed by a qualified service agency.

Any damaged valve components should not be installed. If a valve or regulator has been dropped or appears to have been modified, the valve or regulator should not be installed.

Conversion Component list:

- Burner Orifice:
See Appliance Specification charts on last page for appropriate orifice size for each gas type.
- Pilot Orifice
- Gas Valve Regulator
- Pilot Gasket
- Gas Conversion Plate
- NG or P Label

CAUTION: THE GAS SUPPLY SHALL BE SHUT OFF PRIOR TO DISCONNECTING THE ELECTRICAL POWER BEFORE PROCEEDING WITH THE CONVERSION.

WARNING:

This Conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable code and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

Note: Component features will vary between Traditional, Modern and Premium models.

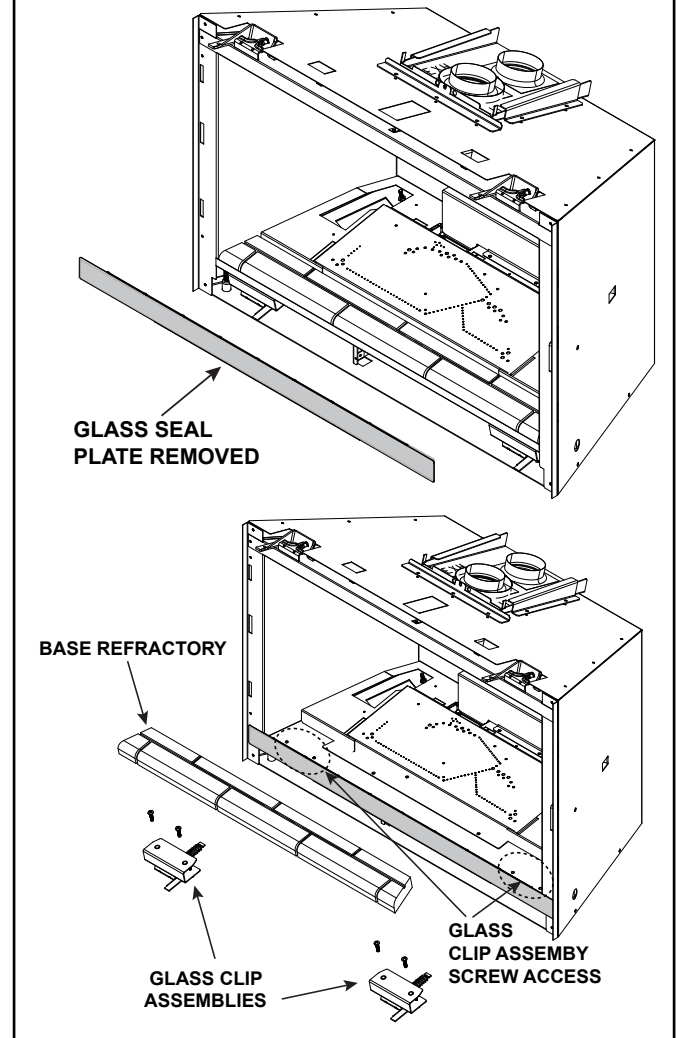


Figure 1 Glass Seal Plate installed with Glass Clip Assemblies Removed

Procedure for Conversion:

Removal and replacement of components will vary between models. Models are referred to as Modern (COSMO-I30-IFT, COSMO-I35-IFT), Premium (SUPREMEX-I30, RUBYP30I), or Traditional (all other models listed above).

1. Verify that the kit supplied corresponds with the appliance under conversion.
2. Remove the glass assembly. For detailed instructions, see appliance installation or owner's manual.
3. Remove glass seal plate. See Figure 1.

- To access controls, press component tray tab and slide component tray out. See Figure 2.

Note: Wires may need to be removed from clips for full access. See Figure 2.

- For easier access to components the bottom glass clip assemblies can be removed. See Figure 1.

Note: Bottom right glass clip on 25 inch models must be removed to gain access to controls.

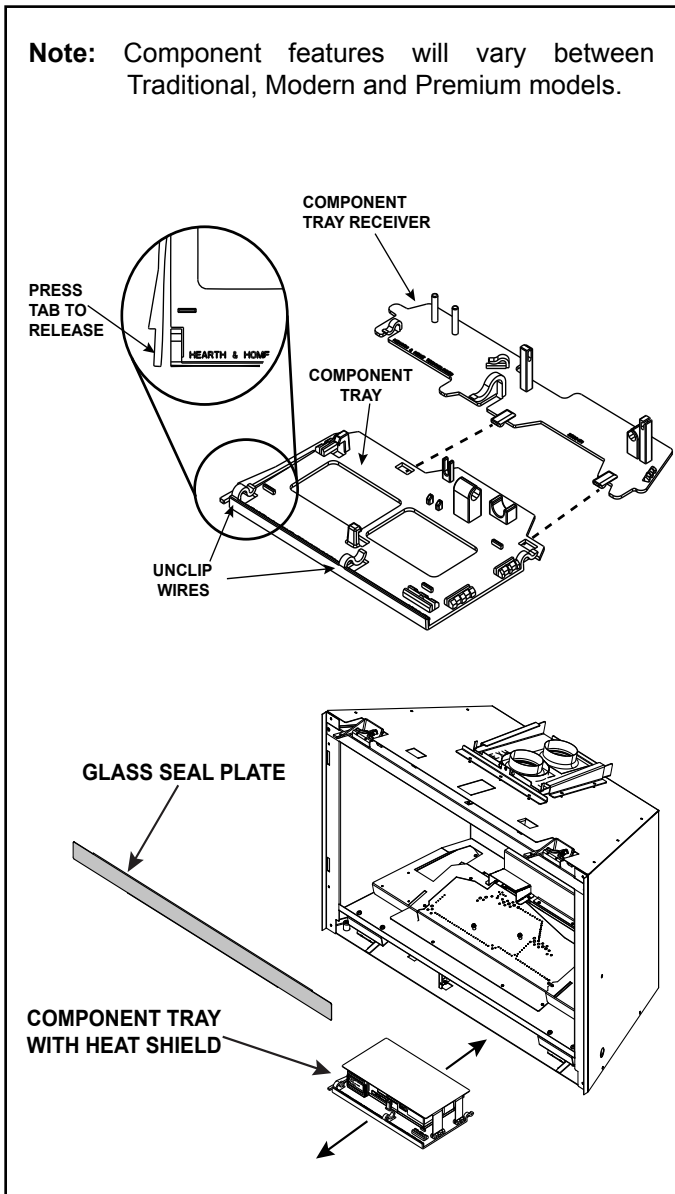


Figure 2 Component Tray - Modern and Traditional

CAUTION: Be sure to reinstall the component heat shield before firing the appliance. Components will overheat.

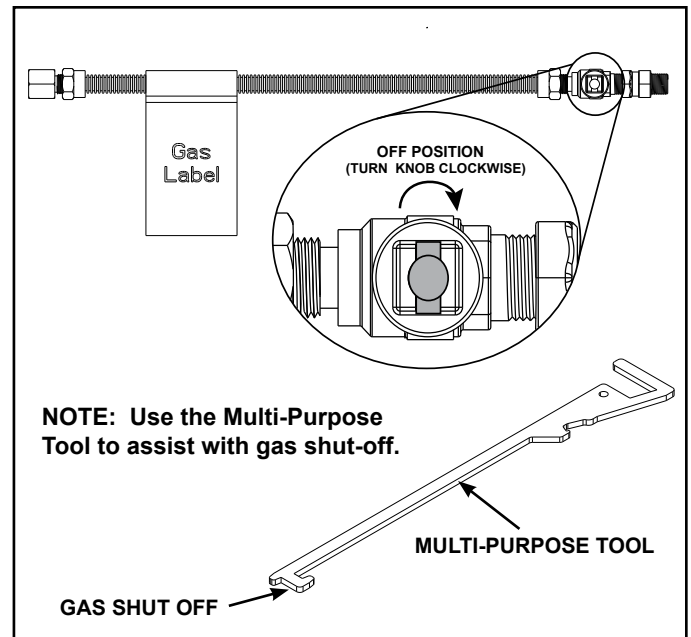


Figure 3 Gas Shut-off Detail / Multi-Purpose Tool

- Switch control module to OFF mode using selector switch. See Figure 10.

NOTICE: Selector Switch on module **MUST** be in **OFF** mode before power can be disconnected or valve regulator lead can be connected or disconnected from valve.

- Turn off power to module and valve by unplugging 6V transformer from the module.
- Turn off gas to valve. Red gas shutoff knob is located on ball valve. See Figure 3.
- Using a #20 tamper-proof Torx screwdriver, remove the regulator and rubber gasket on face of valve. See Figure 4. Discard both the regulator and gasket.
- Install the rubber gasket and new regulator included in the conversion kit. Be sure the gasket is seated properly as shown in Figure 4.

	⚠ WARNING	
	Fire Risk Explosion Risk Gas Leak Risk	
	- Rubber gasket must be seated properly on valve face. - Do not install a valve or regulator that has been dropped.	

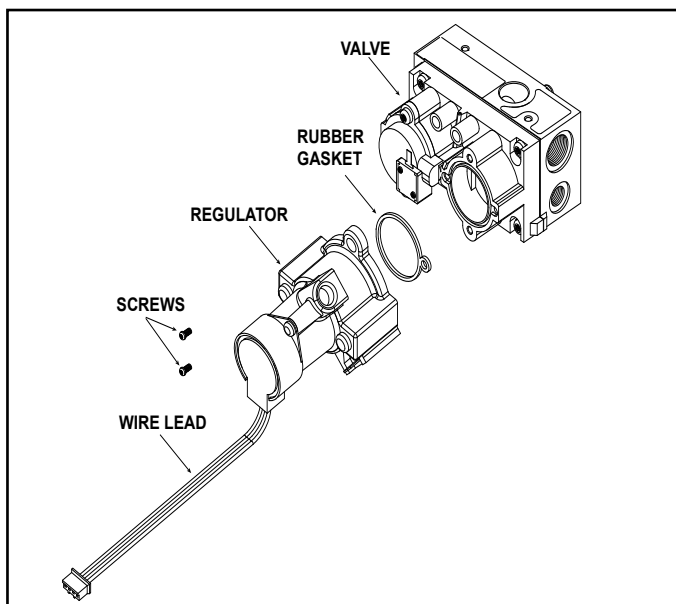


Figure 4

11. Remove the logs and refractory, if installed.
12. Remove the burner and base pan assembly. Reference Figure 5, 6 or 7 depending on model being converted.
13. Verify the burner orifice size to the appliance specification chart on last page. Replace the existing burner orifice.

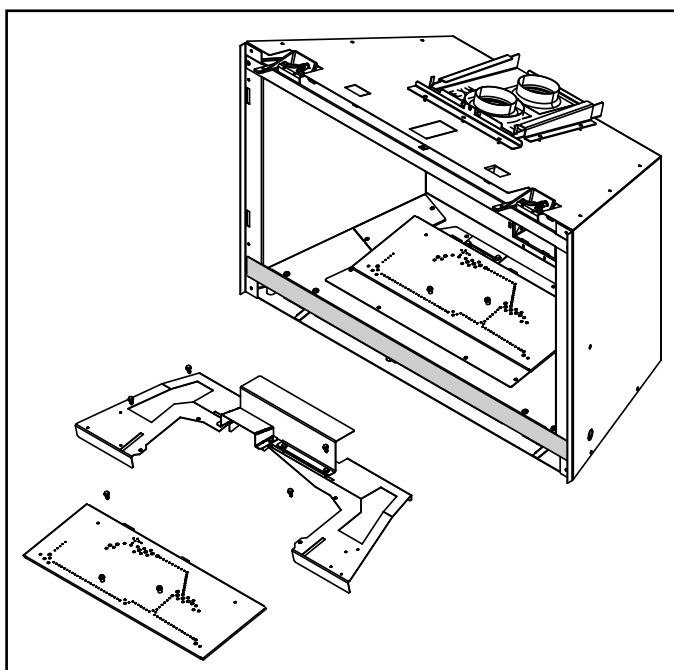


Figure 5 Base Pan and Burner Assembly Removal - Traditional

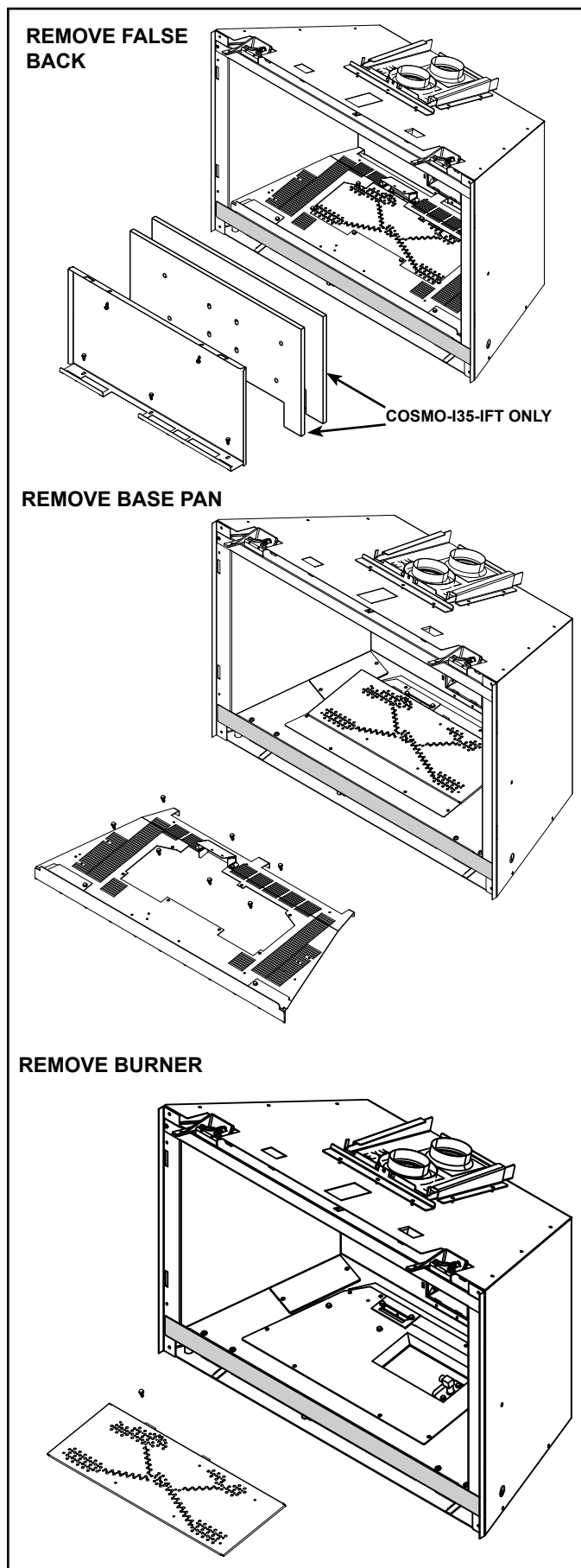


Figure 6 Base Pan and Burner Assembly Removal - Modern

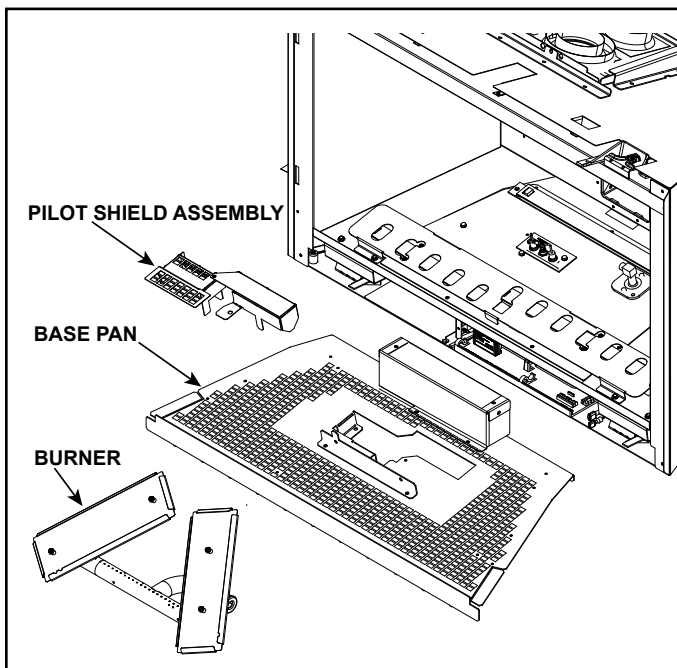


Figure 7 Base Pan and Burner Assembly Removal - Premium

14. Remove the pilot assembly.
15. Locate the ferrule fitting located beneath the pilot assembly and with a 7/16 in. wrench, loosen the nut to remove the pilot tube. For better leverage, support the base of the pilot with a 1/2 in. wrench. See Figure 9. Remove the pilot spud and replace with the pilot spud included in the kit. Insert the pilot tube into the ferrule fitting and tighten the nut to secure pilot tube to the pilot assembly.
16. Using a small screwdriver, carefully adjust the setting on the module to the appropriate gas type. Slide the LP/NG selector switch to the right for NG or to the left for Propane. See Figure 10. Excessive force may cause damage to the module.

Note: The qualified service agency installing this conversion must enter the day, month, and year, and sign the conversion plate added to this appliance.

17. Place the round label included with the conversion kit (NG or P) over the existing round label (NG or P) on the bottom base pan. Fill out the installer conversion label. After filling out the label, clean an area near the gas valve and attach. Place the included gas conversion plate on the upper left surface of the outer wrap.
18. Unplug the green wire from valve.
19. Turn on power to module and valve by plugging in 6 volt transformer to the module.
20. Turn on gas to valve. Red gas shutoff knob is located on ball valve. See Figure 3.

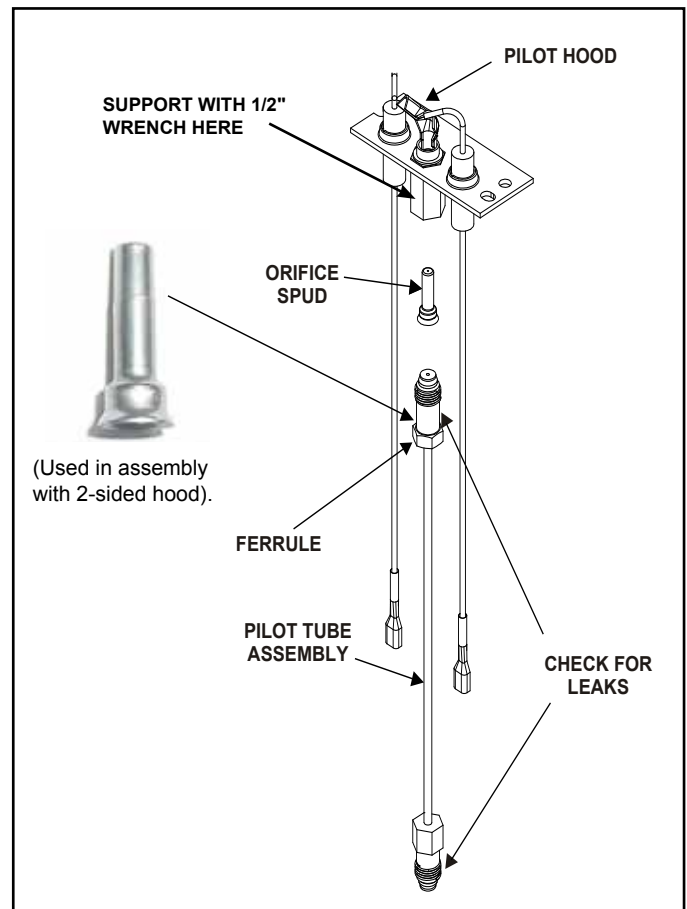


Figure 9 Pilot Assembly Detail

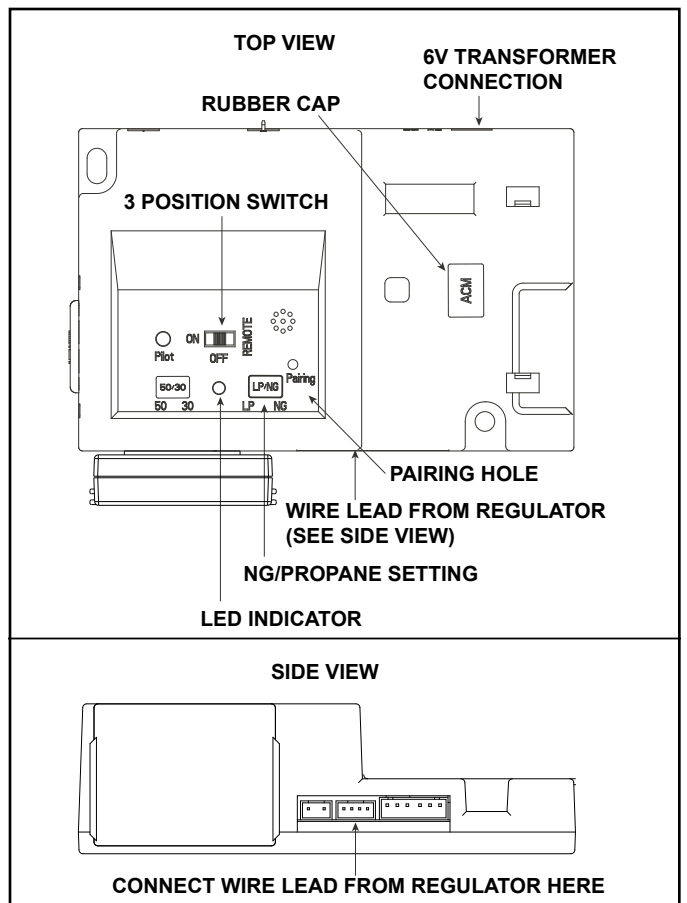


Figure 10 Module - IntelliFire Touch

21. Turn on fireplace with the green wire disconnected from the valve. Note that only the pilot will ignite with the green wire disconnected.

	⚠ WARNING
	Shock or burn risk. • Disconnect green wire from gas valve. Failure to disconnect green wire could result in severe burns.

22. Use a commercially available, non-corrosive leak check solution to test for leaks around the pilot. Be sure to rinse off all leak check solution following testing. See Figure 9 for leak check points. Extinguish the pilot. Turn fireplace OFF.
23. Adjust shutter gap on burner. See Appliance Specification charts on last page for appropriate orifice size and shutter settings for each appliance type.
24. Reattach pilot assembly to the valve plate with two screws. If the gasket is compromised, replace with the gasket included with this kit.
25. Reinstall burner and secure to valve plate with one screw.
26. Reinstall green wire on valve.
27. Turn fireplace on and use a commercially available, non-corrosive leak check solution to test for leaks around the valve regulator. Shut down appliance. Be sure to rinse off all leak check solution following testing.
28. Reinstall the bottom glass clip assemblies if removed. See Figure 1.
29. Reinstall the base pan assembly and refractory.
30. Reinstall logs, media and embers as appropriate the appliance model being converted. Follow the instructions in the appliance installation manual.
31. Reinstall the glass seal plate. See Figure 1.

WARNING! *Glass seal plate must be properly installed. Risk of elevated component temperatures and carbon monoxide exposure.*

32. Reinstall the glass assembly. See appliance manual for details.
33. Turn on fireplace to check for proper burner flame pattern.
34. Verify that the signed and dated conversion plate has been added to appliance.

Verify the performance of the ignition system.

1. Verify pilot sparks, pilot lights, pilot stops sparking, and the main burner turns "ON".
2. Turn fireplace OFF. Verify that both the pilot and burner are turned "OFF".
3. Repeat Step 1 above.
4. With burner "ON", remove green wire connected to valve. The main burner should shut "OFF"
5. Reattach green wire to valve.
6. Turn the fireplace OFF.
7. Turn the fireplace ON.
8. With the main burner "ON", remove orange wire connected to the valve. The pilot and burner should go out, and the pilot will start to spark.
9. Turn fireplace "OFF" and reattach orange wire to valve.

Natural Gas Appliance Specifications

MAXIMUM

MINIMUM

- Inlet Gas Pressure: 10.0 in. w.c. 5.0 in. w.c.
- Manifold Gas Pressure: 3.5 in. w.c. 1.7 in. w.c.
- Input Rate: See Below

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).
- See appliance installation manual for details.

Models	Orifice #	Shutter	BTU Max.	BTU Min.
SUPREME-I25-IFT, SUPREME-I25-BIR	40	1/2 in.	27,000	18,900
SUPREMEX-I30, SUPREMEX-I30BIR, RUBYP30IN, RUBYP30IN-BIR	40	1/8 in.	27,000	18,900
SUPREME-I30-IFT, SUPREME-I30-BIR,	35	1/2 in.	32,700	22,890
SUPREME-I35-IFT, SUPREME-I35-BIR	33	3/8 in.	35,000	24,500
COSMO-I30-IFT	38	1/2 in.	28,000	19,600
COSMO-I35-IFT	37	3/8 in.	30,000	21,000
RUBY25IN	40	1/4 in.	27,000	18,900
RUBY30IN	35	1/2 in.	32,700	22,890
RUBY35IN	33	3/8 in.	35,000	24,500
EXCURSION-I / TRILLIANT25IN	40	3/16 in.	27,000	18,900
EXCURSION-II / TRILLIANT30IN	35	3/8 in.	32,700	22,890
EXCURSION-III / TRILLIANT35IN	33	3/8 in.	35,000	24,500

Propane Gas Appliance Specifications

MAXIMUM

MINIMUM

- Inlet Gas Pressure: 13.0 in. w.c. 11.0 in. w.c.
- Manifold Gas Pressure: 10.0 in. w.c. 5.5 in. w.c.
- Input Rate: See Below

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).
- See appliance installation manual for details.

Models	Orifice #	Shutter	BTU Max.	BTU Min.
SUPREME-I25-IFT, SUPREME-I25-BIR,	53	1/2 in.	25,000	17,500
SUPREME-I30-BIR	51	FULL OPEN	32,000	22,400
SUPRM-I30LP-IFT	51	FULL OPEN	32,000	22,400
SUPREME-I35-IFT, SUPREME-I35-BIR	50	FULL OPEN	35,000	24,500
COSMO-I30-IFT	.058 in.	FULL OPEN	23,000	16,100
COSMO-I35-IFT	1.55 mm	FULL OPEN	28,000	19,600
SUPREMEX-I30, SUPREMEX-I30BIR, RUBYP30IL	53	FULL OPEN	25,000	17,500
RUBY25IL	53	1/2 in.	25,000	17,500
RUBY30IL	51	FULL OPEN	32,000	22,400
RUBY35IL	50	FULL OPEN	35,000	24,500
EXCURSION-I / TRILLIANT25IL	53	3/8 in.	25,000	17,500
EXCURSION-II / TRILLIANT30IL	51	FULL OPEN	32,000	22,400
EXCURSION-III / TRILLIANT35IL	50	1/2 in.	35,000	24,500