




## Mandatory Markings:

Below are examples of the rating plates that must be fixed to the rear of the unit on completion of the conversion by the installer.

<b>IRON RANGE CO</b>		
<b>800-228-7253</b>		
<b>Gas Convection Oven</b>		
Model: IRCO-1 Gas Type: LP (propane)	Manifold Pressure: 10" WC	
Orifice Size: 1.25 mm	Input: 54000BTU	Max. Pressure: 13" WC
Serial:*****		
Made in China		
Fabrique aux La China		
Hecho en China	4003027	
Intended for other than household use - Non destiné à l'usage domestique		
<b>Electrical rating: 120VAC, 60 Hz 1 Phase, 5.3 Amperes</b>		
<b>For Natural gas when equipment with No. 2.0mm drill size orifice</b>		
<b>For your safety refer to installation instruction for conversion procedure.</b>		
<b>IRON RANGE CO, 360 MELVIN DRIVE, NORTHBROOK IL 60062</b>		

### Example A Rating Plate:

CONVERSION BY QUALIFIED SERVICE AGENCY	
THIS APPLIANCE WAS CONVERTED ON :	
day _____	month _____ year _____
To LPG gas with KIT # : _____	
By : company name _____	
address : _____	
_____	
_____	
Which accepts the responsibility that this conversion has been properly made	

### Example B Installation Plate:

<b>LPG</b>	<b>GPL</b>	<b>CLEARANCES ESPACES LIBRES</b>
FOR LP GAS WHEN EQUIPPED WITH NO 1.25MM DRILL ORIFICE SIZE POUR LP GAZ LORSQU'ÉQUIPÉ AVEC UNE OUVERTURE DE TAILLE DE MÈCHE NO. 1.25MM		
FOR USE IN NON COMBUSTIBLE LOCATION ONLY DOIT ÊTRE UTILISÉ SEULEMENT DANS DES LOCAUX NON FLAMMABLES COMPLIES WITH ANSI STD Z83.11-2016, CSA STD 1.8-2016		
MAN.PRESS PRESS.MAN	<b>10.0</b>	INCH W.C.
BTU CONSUMMATION	<b>54000</b>	BTU INPUT/HR
BACK ARRIÈRE	<b>6"</b>	
RT SIDE CÔTÉ DROIT	<b>6"</b>	
LT SIDE CÔTÉ GAUCHE	<b>6"</b>	

### Example C warning label fixed to side of the unit



## **INSTRUCTIONS FOR FIELD CONVERSION TO LPG GAS:**

This instruction covers the following models:

**Gas Convection Oven: IRCO-1**

Please refer to specific instructions for each model range

### **WARNING:**

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing equipment.

### **WARNING**

**This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, an 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**

<b>MODELS</b>	<b>PARTS INCLUDES</b>
SINGLE DECK OVEN	3 × 1.25 mm drill orifices & Regulator Spring Kit
DOUBLE DECK OVEN	6 × 1.25 mm drill orifices & Regulator Spring Kit

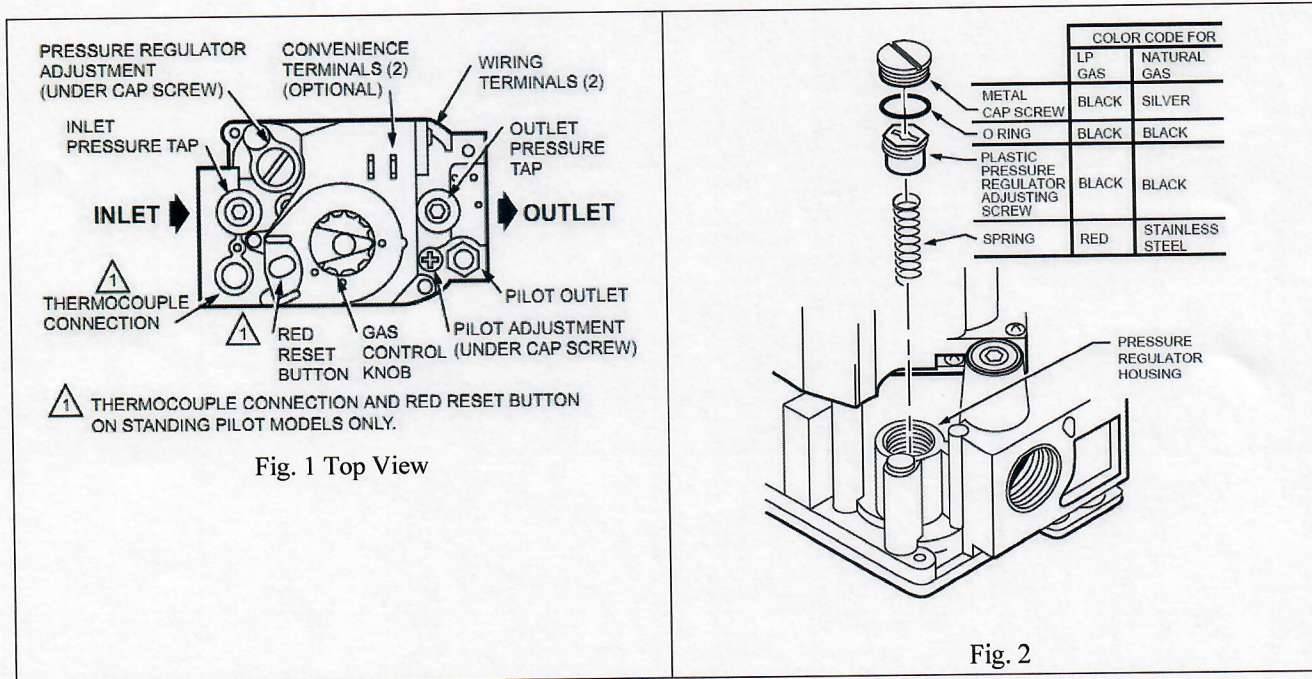


## Specific Instructions for Gas Convection Oven:





**CAUTION:**  
**ENSURE THE GAS SUPPLY IS SHUT OFF AT THE**  
**MANUAL SHUT OFF VALVE BEFORE PROCEEDING**  
**WITH THE CONVERSION**

1. Turn off gas supply at the appliance service valve.
2. Remove metal cap screw and plastic pressure adjustment screw. Refer to Fig. 1.
3. Remove the existing spring.
4. Insert the replacement spring. Refer to Fig. 2.
5. Install the new plastic pressure regulator adjustment screw.
6. Check and adjust the regulator setting using a manometer.
7. Install the new metal cap screw and O-ring.
8. Mount conversion label on the gas control.
9. Install the gas control and appliance according to appliance manufacturer instructions.
10. Substitute the main orifices with one that matched with the gas supply.





### Checking Gas Pressure Using a Manometer (Pressure Gauge)

1. Turn gas control knob to PILOT for standing pilot systems or turn gas control knob or slide switch to OFF for intermittent and direct ignition systems.
2. Remove outlet pressure tap plug from gas control and connect pressure gauge. Refer to Fig. 1.
3. Turn gas control knob or slide gas control switch to ON position.
4. To obtain an accurate outlet pressure reading, main burner must be cycled on and off several times to stabilize the pressure regulator diaphragm.
5. Light main burner and read pressure gauge.
6. If necessary, adjust pressure regulator to match appliance rating.
  - a. Remove metal cap screw.
  - b. Using a screwdriver, turn inner plastic regulator adjustment screw clockwise  to increase or counterclockwise  to decrease gas pressure to main burner.
  - c. Always replace metal cap screw and tighten firmly to prevent gas leakage.
7. Turn gas control knob to PILOT for standing pilot systems or turn gas control knob or slide switch to OFF for intermittent and direct ignition system.
8. Remove pressure gauge and replace outlet pressure tap plug and metal cap screw.
9. Proceed to Checkout section.
  - a. For one ft<sup>3</sup> per revolution gas meter dials, use Table 1 directly.
  - b. For ½ ft<sup>3</sup> per revolution gas meter dials: (1) Determine time for two dial revolutions (2) Use Table 1 directly.
  - c. For two ft<sup>3</sup> per revolution gas meter dials:
    - (1) Determine time for one complete dial revolution.
    - (2) Divide time by two.
    - (3) Use Table 1 directly.

### CHECKOUT

1. Make certain the primary air supply to the main burner is properly adjusted for complete combustion at final pressure
2. Place system in operation and observe through at least one complete cycle to assure all controls are operating properly.
3. If manometer (pressure gauge) method is used, perform Gas Leak Test at outlet pressure tap plug.
4. Apply the conversion label in the conversion kit to the gas control to show conversion to a new type of gas.

**Table 1. Converting Gas Flow Rate**

Time (sec)	Flow (cfh)	Flow (m <sup>3</sup> /hr)
40	90	2.55
41	88	2.50
42	86	2.44
43	84	2.38
44	82	2.32
45	80	2.27
46	78	2.21
47	77	2.18
48	75	2.12
49	73	2.07
50	72	2.04
51	71	2.01
52	69	1.95
54	67	1.90
55	65	1.84
56	64	1.81
57	63	1.78
58	62	1.76
59	61	1.73
60	60	1.70
62	58	1.64
64	56	1.59
66	54	1.53
68	53	1.50
70	51	1.44
72	50	1.42
74	49	1.39
76	47	1.33
78	46	1.30
80	45	1.27
84	43	1.22
88	41	1.16
92	39	1.10
96	38	1.08
100	36	1.02
105	34	0.96
110	33	0.93
115	31	0.88
120	30	0.85
130	28	0.79
135	27	0.76
140	26	0.74
150	24	0.68
160	23	0.65
170	21	0.59
180	20	0.57