

All conversion must done qualified service be by а person in accordance with these instructions and in compliance with all codes and requirements. In Canada, gas conversion shall be carried out in accordance with the Provincial **Authorities** having jurisdiction requirements of the and in accordance with the requirements of the CAN/CGA-B149.1 and .2 installation code.

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

FOR YOUR SAFETY

- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Leave the building immediately.
 - Immediately call your gas supplier from a phone remote from the building. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.

- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

DANGER: kit is to be selected and installed by a The conversion qualified service in accordance with these person instructions compliance with all codes and requirements of authorities and in jurisdiction. Failure follow instructions having to could result in death, serious injury, and/or property damage. The qualified agency performing this work assumes responsibility for this conversion.

		Model type VP:		s vcs		S VP		ע די		/ст
Size	Config.	Gas Type	Kit #	table #						
	20	Natural	1005050	1	1005058	9	1005050	1	1005058	9
	20	Propane	1005050	1	1005059	10	1005050	1	1005059	10
<u> </u>	20	Natural	n/a		n/a		n/a		n/a	
60	30	Propane	n/a		1005050	1	n/a		1005050	1
	40	Natural	n/a		n/a		n/a		n/a	
	40	Propane	n/a		n/a		n/a		n/a	
	20	Natural	1005051	2	1005060	11				
	20	Propane	1005052	3	1005061	12				
00	20	Natural	1005062	13	1005062	13	1005062	13	1005062	13
80	30	Propane	1005050	1	1005063	14	1005050	1	1005063	14
	40	Natural	n/a		n/a		n/a		n/a	
	40	Propane	n/a		n/a		n/a		n/a	
	20	Natural	1005079	29	1005081	30	1005079	29	1005081	30
	30	Propane	1005053	4	1005064	15	n/a		1005064	15
100	40	Natural	n/a		n/a		n/a		n/a	
100	40	Propane	n/a		1005065	16	n/a		1005065	16
		Natural	n/a		n/a					
	50	Propane	n/a		n/a					
	30 40	Natural					1005080	32	1005082	24
		Propane					1005055	33	1005061	12
		Natural	n/a		1005066	17	n/a		1005066	17
		Propane	n/a		1005061	12	n/a		1005061	12
125		Natural	n/a		n/a		n/a		n/a	
	50	Propane	n/a		n/a		n/a		n/a	
		Natural	n/a		n/a		n/a		n/a	
	60	Propane	n/a		n/a		n/a		n/a	
		Natural	1005054	5	1005067	18	n/a		1005067	18
	40	Propane	1005055	6	1005068	19	n/a		1005068	19
		Natural	n/a		1005069	20	n/a		1005069	20
450	50	Propane	n/a		1005070	21	n/a		1005070	21
150	<i>c</i> 0	Natural	n/a		n/a		n/a		n/a	
	60	Propane	n/a		n/a		n/a		n/a	
		Natural	n/a		n/a					•
	70	Propane	n/a		n/a					
		Natural	n/a		1005071	22	n/a		1005083	31
	50	Propane	1005056	7	1005072	23	1005056	7	1005072	23
	60	Natural	n/a		n/a		n/a		n/a	
170	60	Propane	n/a		1005074	25	n/a		1005074	25
170		Natural	n/a		n/a		n/a		n/a	
	70	Propane	n/a		n/a		n/a		n/a	
		Natural	n/a		n/a					
	80	Propane	n/a		n/a					
	50	Natural	1005057	8	1005075	25	1005057	8	1005075	25
200	60	Natural	n/a		1005076	26	n/a		1005076	26
200	70	Natural	n/a		1005077	27	n/a		1005077	27
	80	Natural	n/a		n/a					



1.1 Changing the Fan Orifice Plate (see fig.1) (where reqd.)

Refer to tables 1 - 33 to determine which specific fan orifice plate requires changing.

The fan orifice plate is attached to the fan inlet. To remove..

a) Firstly remove the ducted air connection if fitted.

b) Remove the three screws holding the plate in position.

c) Replace the new orifice plate using the existing screws.

1.2 Removing a Tube Coupling (see fig.3) (where reqd.)

If a tube is required replacing it is necessary to remove the tube coupling. To remove ...

a) Firstly unscrew the two self-drilling screws.

b) Using a 9/16" wrench and moving between bolts, un-tighten and loosen the bolts.

c) Slide the coupler off and away from the tubes.

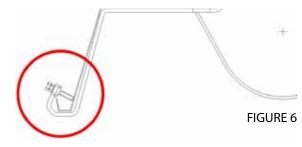
d) Retain for later use.

1.3 Changing the Heat Exchanger Tubes (see fig.2) (where reqd.)

Refer to tables 1 - 33 to determine the correct quantity of heat exchanger tube sections that are required and when and where they should be installed.

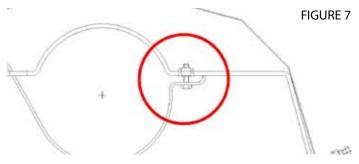
Important note: Before installation, wipe any excess corrosion inhibitor from the heat exchanger tubes. Failure to do so could result in excessive smoke from the surface of the tubes on first startup. To remove a heat exchanger tube you are first required to remove the reflectors appropriate to the number of tube sections required to be changed. Each conversion kit table will advise to how many tube lengths will be required to be removed. Once familiarized, then

a) Loosen the fixing screws on the reflector support brackets to be removed.

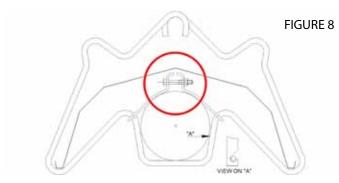


b) Withdraw the appropriate amount of reflectors to expose the tubes.

c) Unscrew the retaining bolt from the tube strap of the reflector support brackets and remove brackets.



d) Loosen the tube straps from the type 'H' suspension brackets and remove strap.



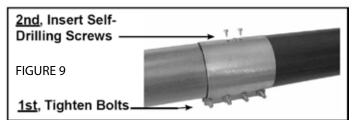
e) Remove the coupler as explained in section 1.2

f) Withdraw the required tube sections(s) through the suspension brackets.

g) Locate and position new heat exchanger tube(s) through the suspension brackets.

h) Using the existing coupler and with the bolts toward the bottom, slide the compression coupling onto the end of the existing suspended combustion chamber tube. Slide the end of the new heat exchanger tube into the other side of the coupling.

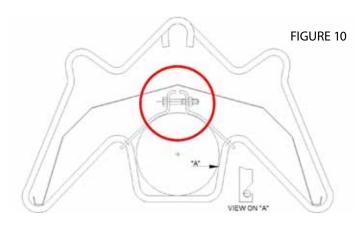
j) With both tube ends as far into the coupling as they will go, using a 9/16" wrench tighten the coupling bolts moving between each bolt in sequence.



k) In the top, insert the two self-drilling screws to secure the coupling to each tube. Use the same procedure to join all heat exchanger tubes (where necessary). Tubes must be suspended in their suspension brackets as they are installed.

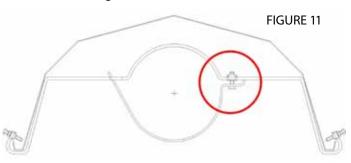
Repeat the instructions shown previous to join all of the remaining heat exchanger tubes.

I) Re-attatch the tube straps to the type 'H' suspension brackets and fix in position (see below).



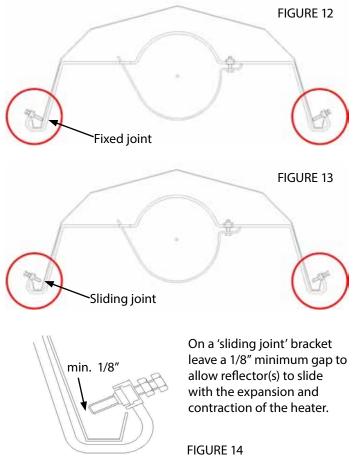
m) Reposition the reflector support brackets in position on

the tube. Screw the retaining bolt in the tube strap of each bracket (shown ringed).



n) Replace the correct amount of reflectors in place. Each subsequent reflector must OVERLAP the previous to the end of the reflector run.

p) Tighten the fixing screws on all the reflector support brackets (shown below) correctly, depending if it is a fixed or sliding version. Fixed and Sliding brackets should follow in sequence.



1.4 Installing the Turbulator Strip(s) (see fig.4) (where reqd.)

Refer to tables 1 - 33 to determine the correct quantity of turbulator sections required and when and where they should be installed.

Locate turbulator strip sections. Install a turbulator strip into the open end of the last tube only after it has been suspended and connected to the previous tube.

Install the turbulator strip by sliding a section into the end of the tube, connecting the next section (see fig 15 and 16 opposite), and sliding the connected sections on into the tube(s). to form the correct length (see fig 17)

FIGURE 15 - Turbulator Strip Sections

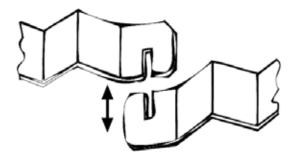
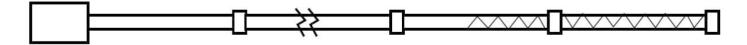


FIGURE 16 - As turbulator strip is installed in the tube, interlock the sections.



FIGURE - 17 (below) - Turbulator strip in situ .



TABLES 1 - 33

List of components included in each conversion kit as well as the heater(s) to which that kit applies. Ensure correct kit is chosen for model required.

TABLE	TABLE 1 - Conversion kit, P/N 1005050				
Applies to models VPS60N20; VPS60P20; VPS80P30; VCS60P30; VPT60N20; VPT60P20; VPT80P30; VCT60P30					
Compo	Components				
Qty.	P/N	Description			
3	116019	Turbulator			
1	150985	Accessory Box			
1	D303058	Instruction Manual			
1	147794	Zip Bag			

TABLE	TABLE 2 - Conversion kit, P/N 1005051			
Applie	Applies to models VPS80N20			
Compo	onents			
Qty.	P/N	Description		
1	269923	Fan Orifice Plate		
2	116019	Turbulator		
2	120538	Short Turbulator		
1	150985	Accessory Box		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE	TABLE 3 - Conversion kit, P/N 1005052			
Applie	Applies to models VPS80P20			
Compo	onents			
Qty.	P/N	Description		
4	116019	Turbulator		
1	150985	Accessory Box		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE	TABLE 4 - Conversion kit, P/N 1005053			
Applie	Applies to models VPS100P30			
Compo	onents			
Qty.	P/N	Description		
1	269930	Fan Orifice Plate		
4	116019	Turbulator		
1	150985	Accessory Box		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE 5 - Conversion kit, P/N 1005054

Applie	Applies to models VPS150N40				
Components					
Qty.	P/N	Description			
1	269931	Fan Orifice Plate			
5	116019	Turbulator			
1	150985	Accessory Box			
1	D303058	Instruction Manual			
1	147794	Zip Bag			

TABLE	TABLE 6 - Conversion kit, P/N 1005055			
Applie	Applies to models VPS150P40			
Compo	onents			
Qty.	P/N	Description		
5	116019	Turbulator		
1	150985	Accessory Box		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE 7 - Conversion kit, P/N 1005056

Applie	Applies to models VPS170P50; VPT170P50			
Compo	onents			
Qty.	P/N	Description		
1	269931	Fan Orifice Plate		
3	116019	Turbulator		
1	150985	Accessory Box		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE 8 - Conversion kit, P/N 1005057

Applies to models VPS200N50; VPT200N50

Components					
Qty.	P/N	Description			
1	269939	Fan Orifice Plate			
4	116019	Turbulator			
1	150985	Accessory Box			
1	D303058	Instruction Manual			
1	147794	Zip Bag			

TABLE	TABLE 9 - Conversion kit, P/N 1005058			
Applie	Applies to models VCS60N20; VCT60N20			
Compo	onents			
Qty.	P/N	Description		
3	116019	Turbulator		
1	150985	Accessory Box		
1	270117	Calorized Tube		
1	205549	Tube Shipping Carton		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE	TABLE 10 - Conversion kit, P/N 1005059			
Applie	Applies to models VCS60P20; VCT60P20			
Compo	onents			
Qty.	P/N	Description		
2	116019	Turbulator		
2	120538	Short Turbulator		
1	150985	Accessory Box		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLI	TABLE 11 - Conversion kit, P/N 1005060			
Applie	Applies to models VCS80N20			
Comp	onents			
Qty.	P/N	Description		
1	269923	Fan Orifice Plate		
2	116019	Turbulator		
2	120538	Short Turbulator		
1	150985	Accessory Box		
1	270117	Calorized Tube		
1	205549	Tube Shipping Carton		
1	D303058	Instruction Manual		
1	147794	Zip Bag		

TABLE	TABLE 12 - Conversion kit, P/N 1005061		
Applies to models VCS80P20; VCS125P40; VCT125P30; VCT125P40			
Compo	onents		
Qty.	P/N	Description	
4	116019	Turbulator	
1	150985	Accessory Box	
2	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 13 - Conversion kit, P/N 1005062

Applies to models VPS80N30; VCS80N30; VPT80N30; VCT80N30

	· · · · · · · · · · · · · · · · · · ·		
Components			
Qty.	P/N	Description	
1	269923	Fan Orifice Plate	
3	116019	Turbulator	
1	150985	Accessory Box	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 14 - Conversion kit, P/N 1005063		
Applie	Applies to models VCS80P30; VCT80P30		
Compo	onents		
Qty.	P/N	Description	
3	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 15 - Conversion kit, P/N 1005064		
Applie	Applies to models VCS100P30; VCT100P30		
Compo	onents		
Qty.	P/N	Description	
1	269930	Fan Orifice Plate	
5	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 16 - Conversion kit, P/N 1005065			
Applie	Applies to models VCS100P40; VCT100P40		
Compo	onents		
Qty.	P/N	Description	
1	269930	Fan Orifice Plate	
3	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 17 - Conversion kit, P/N 1005066		
Applie	Applies to models VCS125N40; VCT125N40		
Compo	onents		
Qty.	P/N	Description	
1	269930	Fan Orifice Plate	
4	116019	Turbulator	
1	150985	Accessory Box	
2	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 18 - Conversion kit, P/N 1005067		
Applie	Applies to models VCS150N40; VCT150N40		
Compo	onents		
Qty.	P/N	Description	
1	269931	Fan Orifice Plate	
5	116019	Turbulator	
1	150985	Accessory Box	
2	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 19 - Conversion kit, P/N 1005068		
Applie	Applies to models VCS150P40; VCT150P40		
Compo	onents		
Qty.	P/N	Description	
5	116019	Turbulator	
1	150985	Accessory Box	
2	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 20 - Conversion kit, P/N 1005069		
Applie	Applies to models VCS150N50; VCT150N50		
Compo	onents		
Qty.	P/N	Description	
1	269931	Fan Orifice Plate	
4	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 21 - Conversion kit, P/N 1005070

Applies to models VCS150P50; VCT150P50		
Compo	onents	
Qty.	P/N	Description
4	116019	Turbulator
1	150985	Accessory Box
1	270117	Calorized Tube
1	205549	Tube Shipping Carton
1	D303058	Instruction Manual
1	147794	Zip Bag

TABLE 22 - Conversion kit, P/N 1005071

Applies to models VCS170N50		
Compo	onents	
Qty.	P/N	Description
1	1005049	Fan Orifice Plate
5	116019	Turbulator
1	150985	Accessory Box
2	270117	Calorized Tube
1	205549	Tube Shipping Carton
1	D303058	Instruction Manual
1	147794	Zip Bag

TABL	TABLE 23 - Conversion kit, P/N 1005072		
Applie	Applies to models VCS170P50; VCT170P50		
Comp	onents		
Qty.	P/N	Description	
1	269938	Fan Orifice Plate	
5	116019	Turbulator	
1	150985	Accessory Box	
2	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE	TABLE 24 - Conversion kit, P/N 1005082		
Applies to models VCT125N30			
Components			
Qty.	P/N	Description	
1	269936	Fan Orifice Plate	
4	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 25 - Conversion kit, P/N 1005074		
Applies to models VCS170P60; VCT170P60		
Components		
Qty.	P/N	Description
1	269938	Fan Orifice Plate
4	116019	Turbulator
1	150985	Accessory Box
1	270117	Calorized Tube
1	205549	Tube Shipping Carton
1	D303058	Instruction Manual
1	147794	Zip Bag

TABLE 26 - Conversion kit, P/N 1005075

Applies to models VCS200N50; VCT200N50

Components		
Qty.	P/N	Description
1	269939	Fan Orifice Plate
5	116019	Turbulator
1	150985	Accessory Box
3	270117	Calorized Tube
1	205549	Tube Shipping Carton
1	D303058	Instruction Manual
1	147794	Zip Bag

TABLE 27 - Conversion kit, P/N 1005076

Applies to models VCS200N60; VCT200N60		
Components		
Qty.	P/N	Description
1	269939	Fan Orifice Plate
5	116019	Turbulator
1	150985	Accessory Box
1	270117	Calorized Tube
1	205549	Tube Shipping Carton
1	D303058	Instruction Manual
1	147794	Zip Bag

TABLE	TABLE 28 - Conversion kit, P/N 1005077		
Applies to models VCS200N70; VCT200N70			
Components			
Qty.	P/N	Description	
1	269939	Fan Orifice Plate	
4	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 29 - Conversion kit, P/N 1005079

Applies to models VPS100N30; VPT100N30

Components			
Qty.	P/N	Description	
1	269924	Fan Orifice Plate	
3	116019	Turbulator	
1	150985	Accessory Box	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 30 - Conversion kit, P/N 1005081

Applie	Applies to models VCS100N30; VCT100N30		
Components			
Qty.	P/N	Description	
1	269924	Fan Orifice Plate	
3	116019	Turbulator	
1	150985	Accessory Box	
1	270117	Calorized Tube	
1	205549	Tube Shipping Carton	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

TABLE 31 - Conversion kit, P/N 1005083 Applies to models VCT170N50 Components Qty. P/N Description 116019 Turbulator 5 150985 Accessory Box 1 270117 Calorized Tube 205549 Tube Shipping Carton 1 1 D303058 Instruction Manual 147794 Zip Bag

TABLE 32 - Conversion kit, P/N 1005080

Applies to models VPT125N30 Components P/N Qty. Description 269930 Fan Orifice Plate 1 116019 Turbulator 5 1 150985 Accessory Box 1 D303058 Instruction Manual 147794 Zip Bag

TABLE	TABLE 33 - Conversion kit, P/N 1005055		
Applies to models VPT125P30			
Components			
Qty.	P/N	Description	
5	116019	Turbulator	
1	150985	Accessory Box	
1	D303058	Instruction Manual	
1	147794	Zip Bag	

NOTES:



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