

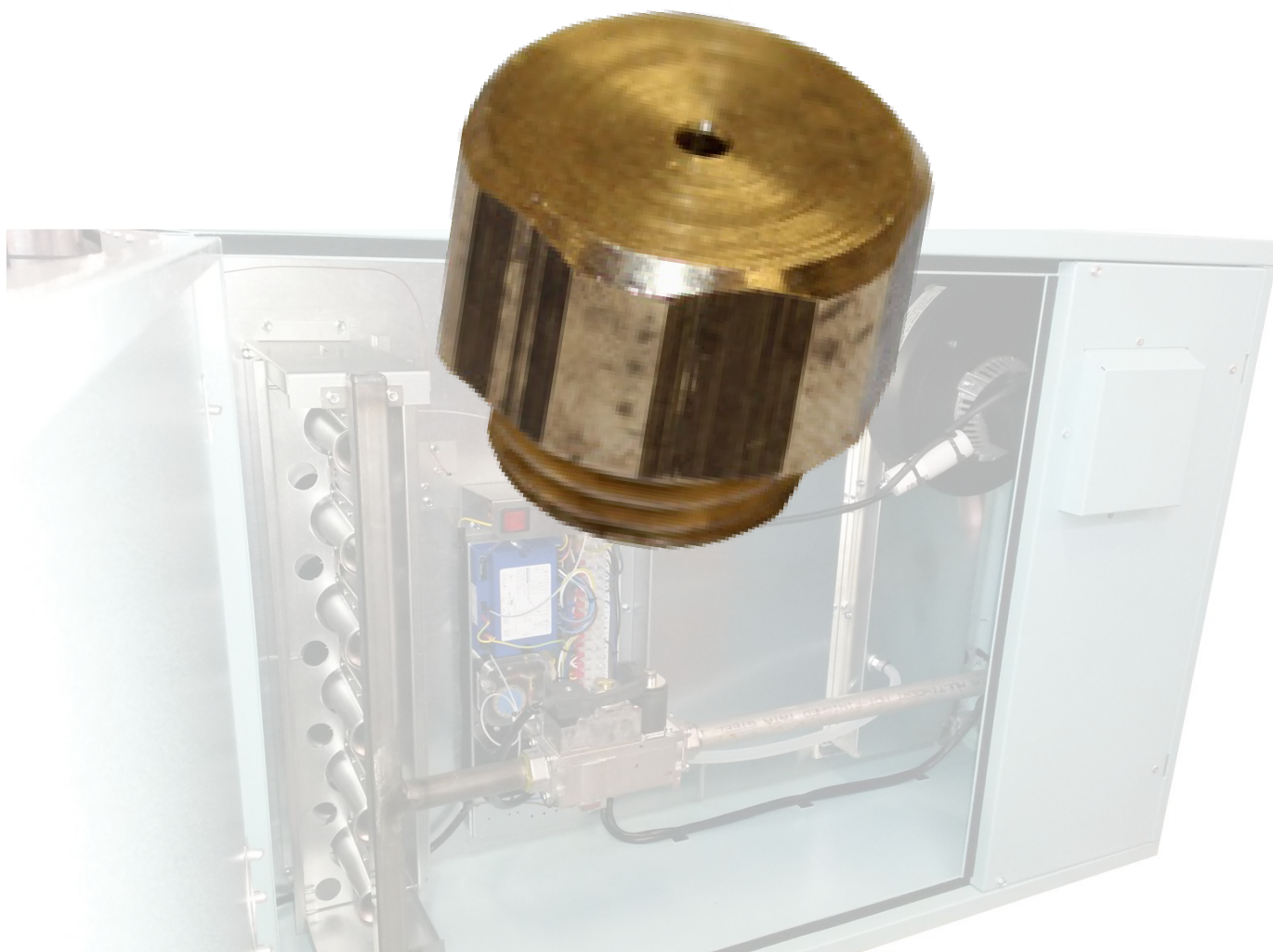
TB132

Applies to models:

NV & NVS



Gas Conversion Kits for NV & NVS Heaters



General Information

Heater conversion between gases will require a change of burner injectors, alteration of burner pressure and re-commissioning of the heater.

All gas valves used on the NVx range have pressure regulators that may be set to operate on

natural gas or propane (LPG).

These assembly instructions describe the parts required and procedures to be carried out when converting this heater

Parts & tools required



Drill plus bits



Flat head screwdriver



PoziDrive screwdriver



Electrical screwdriver



Spanner Set

MODEL	Propane (LPG) Conversion Kit				Natural Gas Conversion Kit			
	Conversion Kit part number	Burner Injector	Washers	Labels	Conversion Kit part number	Burner Injector	Washers	Labels
NV10	NV10LPG	4	4	3	NV10NG	4	4	3
NV15	NV15LPG	4	4	3	NV15NG	4	4	3
NV20	NV20LPG	4	4	3	NV20NG	4	4	3
NV25	NV25LPG	5	5	3	NV25NG	5	5	3
NV30	NV30LPG	6	6	3	NV30NG	6	6	3
NV40	NV40LPG	8	8	3	NV40NG	8	8	3
NV50	NV50LPG	10	10	3	NV50NG	10	10	3
NV60	NV60LPG	8	8	3	NV60NG	8	8	3
NV75	NV75LPG	10	10	3	NV75NG	10	10	3
NV90	NV90LPG	6	6	3	NV90NG	6	6	3
NV120	NV120LPG	8	8	3	NV120NG	8	8	3
NV140	NV140LPG	10	10	3	NV140NG	10	10	3
NVS30	NV30LPG	6	6	3	NV30NG	6	6	3
NVS60	NV52LPG	8	8	3	NV52NG	8	8	3
NVS90	NV80LPG	6	6	3	NV80NG	6	6	3
NVS140	NV130LPG	10	10	3	NV130NG	10	10	3

Gas Safety (Installation & Use) (Amendment) Regulations



It is law that all gas appliances are installed, adjusted and, if necessary, converted by qualified persons* in accordance with the current issue of the above regulations. Failure to install appliances correctly can lead to prosecution. It is in your own interests and that of safety to ensure that the law is complied with.

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* An approved class of person listed on the gas safe register.



Ensure that the gas inlet pressure to the heater is correct for the new gas, and that the gas supply has been purged of the old gas. (Refer to tables at the rear of this document for new gas inlet pressures.)

Procedure



WARNING: Always switch off and disconnect electricity supply and close service valve before carrying out any servicing or replacement of failed components.

1. Ensure that the gas service valve is turned OFF.

1.1 Remove rectification probe screw and withdraw.



1.2 Remove spark electrode screw and withdraw.



1.3 Remove the electrical plug connections from the top of the gas valve.



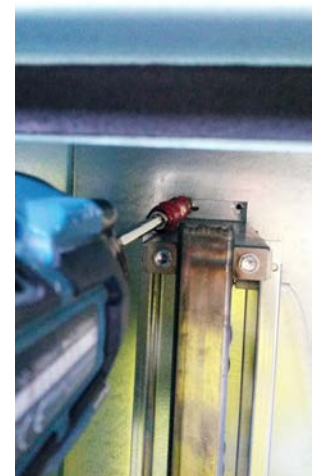
2. Remove the burner heat shield, 3 screws.



3. Release the outlet connection flange from the gas valve by removing the four screws.



4. Remove two fixing screws securing the burner assembly to the bulkhead.



5. Disengage from tab.



8. Remove the main burner injectors and washers.



6. Lift out burner assembly



9. Replace with the new injectors/washers for the new gas ensuring a gas tight seal.

10. Refit all other components in reverse order.

Adjustments

Conversion is carried out by adjusting the burner pressures to the values shown in the tables at the rear of this document.

On/Off Regulation

1. Set external controls to ensure the main burner is off. Open the side access panel. Connect a pressure gauge to the burner pressure test point on the multifunctional control.

2. Set external controls to turn on the main burner. Compare the measured burner gas pressure to that stated on the data plate. In addition it is advisable to check the gas rate using the gas meter dial pointer ensuring that no other appliances supplied through the meter are in operation.

3. To adjust burner pressure simply unscrew the aluminium cover using a flat head screwdriver and turn the adjustment screw clockwise to increase, anti-clockwise to decrease.

7. Remove the manifold by removing the four screws securing it to the burner assembly.



Final Checks

In addition to setting the burner pressures, it is advisable to check the gas rate using the gas meter dial pointer. Ensure that no other appliances supplied through the meter are in operation.

After setting the burner pressures, the CO/CO₂ content in the flue gases can be checked by sampling in the first section of flue fitted to the flue outlet of the unit.

Turn off the main burner and disconnect the pressure gauge and replace the sealing screw.

Turn on the main burner as above and test for gas soundness around pressure test joint using a leak detection fluid e.g. soap solution.

Remove the original data plate on the heater and replaced with new data badge supplied in the kit.

Two "change of gas" stickers are also supplied in the kit. Place one on the side of the gas valve and one on the outside of the heater adjacent to the gas pipe entry point.

Natural Gas to Propane (LPG) Conversion Data

Nominal Inlet Pressure = 37mbar, Minimum Inlet Pressure = 37mbar						High Fire	Low Fire	
MODEL	Conversion Kit part number	Injectors				Injector part number	Burner Pressure	Burner Pressure
		No.	Size (mm)	Marked		mbar	mbar	
NV10	NV10LPG	4	0.90	90	142401671	28.0	10.0	
NV15	NV15LPG	4	1.10	110	142401672	28.5	10.0	
NV20	NV20LPG	4	1.25	125	142401673	31.0	9.9	
NV25	NV25LPG	5	1.25	125	142401673	30.6	11.5	
NV30	NV30LPG	6	1.25	125	142401673	27.0	10.0	
NV40	NV40LPG	8	1.25	125	142401673	28.5	10.0	
NV50	NV50LPG	10	1.25	125	142401673	29.2	9.7	
NV60	NV60LPG	8	1.55	155	142401675	27.0	10.0	
NV75	NV75LPG	10	1.55	155	142401675	27.0	10.0	
NV90	NV90LPG	6	2.10	210	142401676	26.3	9.8	
NV120	NV120LPG	8	2.10	210	142401676	27.0	10.0	
NV140	NV140LPG	10	2.10	210	142401676	26.1	9.5	
NVS30	NV30LPG	6	1.25	125	142401673	26.5	7.6	
NVS60	NV60LPG	8	1.55	155	142401675	20.0	7.4	
NVS90	NV90LPG	6	2.10	210	142401676	24.0	8.4	
NVS140	NV140LPG	10	2.10	210	142401676	22.6	6.9	

Propane (LPG) to Natural Gas Conversion Data

Nominal Inlet Pressure = 20mbar, Minimum Inlet Pressure = 17.5mbar						High Fire	Low Fire
MODEL	Conversion Kit part number	Injectors			Injector part number	Burner Pressure	Burner Pressure
		No.	Size (mm)	Marked		mbar	mbar
NV10	NV10NG	4	1.36	240	142401616	13.2	5.3
NV15	NV15NG	4	1.67	380	142401662	12.5	3.5
NV20	NV20NG	4	1.94	500	142401664	12.7	4.0
NV25	NV25NG	5	1.94	500	142401664	12.5	4.7
NV30	NV30NG	6	1.94	500	142401664	11.9	4.0
NV40	NV40NG	8	1.94	500	142401664	13.5	4.0
NV50	NV50NG	10	1.94	500	142401664	13.2	4.0
NV60	NV60NG	8	2.54	750	142401665	9.5	2.7
NV75	NV75NG	10	2.54	750	142401665	9.5	2.9
NV90	NV90NG	6	3.5	1500	142401666	9.1	3.5
NV120	NV120NG	8	3.5	1500	142401666	9.1	3.4
NV140	NV140NG	10	3.5	1500	142401666	8.4	4.0
NVS30	NV30NG	6	1.94	194	142401664	10.0	3.3
NVS60	NV60NG	8	2.54	254	142401665	8.3	2.6
NVS90	NV90NG	6	3.5	350	142401666	8.2	2.8
NVS140	NV140NG	10	3.5	350	142401666	7.9	2.3



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Every effort is made to ensure accuracy at time of going to press. However as part of continued product improvement, we reserve the right to alter specification without prior notice.