



BeefEater Barbecues NG Conversion

Serious Barbecues

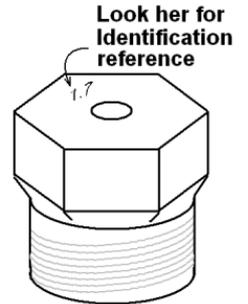
Natural Gas Conversion Instructions for:

Discovery **1100s**, Discovery **1100eP**, Discovery **1100e**, Discovery **1100**

These instructions detail the procedure required to convert the BeefEater Discovery 900e, 1100e and 1100s barbecues and optional side burner from LPG/Propane to Natural Gas. This work must be carried out by a qualified gas fitter or service agent.

Kit for Model **1100s**, **1100eP**, **1100e** and **1100** Includes*:

- 5 x 1.70mm Injectors
- 1 x 1.50mm Injector
- 1 x Replacement Label
- Instructions



WARNING

-  All service to the appliance must be undertaken by a qualified gas service agent.
-  Do not smoke or use a naked flame within the vicinity of the appliance or gas line when performing gas conversion or service of any kind.
-  Always carry out a gas leak test after any work has been carried out on the appliance.
-  If your barbecue is fitted with an optional side burner, gas conversion to the Side-Burner must be carried out at the same time.
-  Always use the correct size socket spanner / wrench to remove or replace the gas injectors. Do not use pliers or any other type of tool that may squeeze the head of the gas injector. This may cause the gas orifice to change shape thereby adversely affecting the gas flow to each burner.
-  Gas injectors are made of brass and have a fine thread. All work in relation to the jets must be treated with care when being handled.

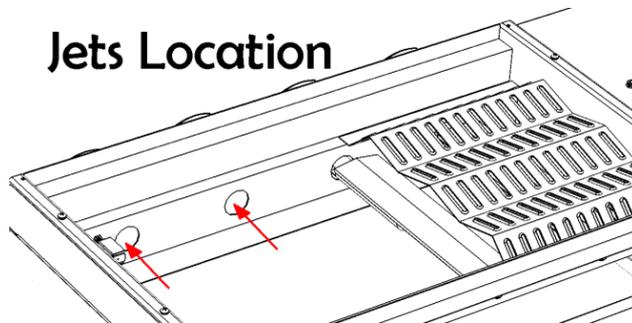
 The manufacturer accepts no responsibility for any consequential damage, malfunction or loss due to incorrect conversion or installation.

Failure to follow these instructions will void the appliance warranty.

Remove and Replace Gas Injectors (Jets)

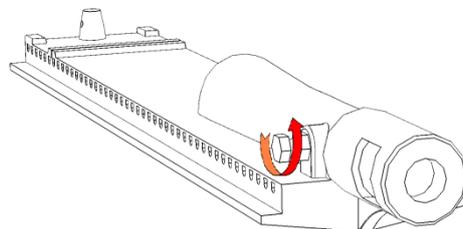
1. Turn off the gas supply valve on the gas cylinder. Ensure that all gas controls on the barbecue are in the OFF position.
2. Disconnect the hose and regulator from the gas cylinder and disconnect the gas hose from the barbecue gas inlet.
3. Remove Hood and all cooking plates, grills, Vaporizers and heat reflectors (if fitted) from the barbecue.
4. Remove the 'R' shaped locking clips that hold each burner in place and remove all burners from the barbecue. Remove the side burner trivet and burner (2 screws from underneath burner).
5. The gas injectors (Jets) for each burner are located within deep pockets behind the front firewall of the barbecue. See below illustration.
6. Remove each gas injector from the end of each valve body, turning gently in a counter clockwise direction. Be careful not to block the orifice at the end of the valve where the gas injector is fitted and do not remove any of the thread sealing compound from the orifice where the injector is located.
7. Check the identification mark stamped on the Hex Head of the injector to confirm that it is the correct size – Main Burners: 1.70mm, Side Burner: 1.50mm*. Screw correct Jets back into place.
8. When fitting the NG gas injectors to the end of the valve body be sure to seat the injector correctly on the thread before turning it in a clockwise direction until it is seated firmly in place. Do not to over-tighten.

Jets Location





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Adjust Aeration Screw in Burners

At the air entry side of each burner turn the aeration screw anticlockwise until no thread is protruding into the burner, and lock to place with a locking nut. Do not completely remove the screw. Once adjusted, re-seal position with red paint. This must only be done by a qualified person.

Replace All Parts Into Position In The Barbecue.

Refit the burners and locking clips that hold each burner in position. Replace all Vaporizers, cooking plates and grills, and Hood. Check the operation of each burner.

Perform a Leak Test and Pressure Test

Use the following procedure to check for gas leaks. Never use a naked flame to check for gas leaks.

1. In a small container, mix up a solution of water and detergent or soap. Mix the solution well.
2. For LPG make sure that the gas supply valve on the gas cylinder is turned on. For NG make sure that the gas line is correctly fitted to the appliance.
3. Make sure that the gas control valves on the appliance are all turned off.
4. Using a brush or spray bottle apply the solution to the gas line and each join in the gas line.
5. Bubbling of the solution will indicate that there is a leak present.
6. Re-tighten or re-seal any joints that are leaking.
7. If a leak persists then contact your distributor or the manufacturer for assistance.

Use the following procedure to test the pressure

8. Remove the far left burner.
9. Place a hose and pressure gauge over the control valve's injector.
10. Turn all other burners on, including the side burner.
11. Turn the LH valve with measuring device on as well, and take reading.
12. Pressure reading for Natural Gas should be as in table below for each region.

Replace the Data Label

Peel the replacement label from its backing sheet and place this over the existing data label to indicate that the unit is configured for Natural Gas. This label can be found on the front of the barbecue body.

Technical Data

Country	BE, CH, ES, FR, GB, GR, IE, IT, PT	CY, CZ, DK, EE, FI, LT, LV, MT, NL, NO, SE, SI, SK, BG, RO, TK	DE, AT, CH	CY, CZ, DK, EE, FI, LT, LV, MT, NL, NO, SE, SI, SK, BG, RO, TK, BE, CH, ES, FR, GB, AT, CH, GR, IE, IT, PT	DE*	Gas Consumption per Burner KW g/h	
Gas Category	I ₃₊	I _{3B/P}	I _{3B/P}	I _{2H}	I _{2E}		
Gas Inlet Pressure [mbar]	Butane: 28-30 Propane: 37	30	50	20	20		
Injector Ø [mm] Main Burner	1.15	1.15	0.99	1.70	1.70	5.3	300
Injector Ø [mm] Side Burner	1.05	1.05	0.90	1.50	1.50	4.5	300



NOTE: To convert the BeefEater barbecue from Natural Gas to LPG, all of the above steps must be reversed including the replacement of the Data Label.



NOTE: The correct spanner to be used with these Injectors is 9/32" or 3BA.

* Germany requires different special Kit!

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