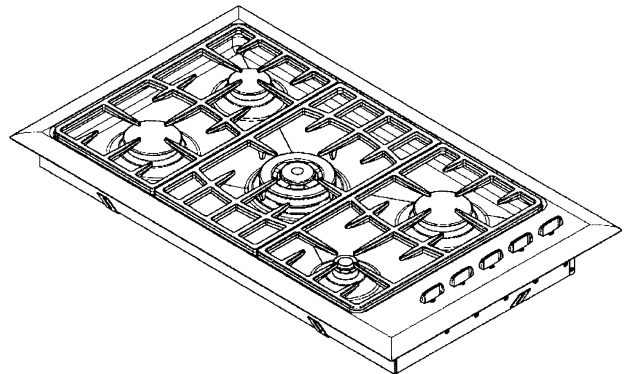


Gas Cooktops

Models

GC901 (USA)
GC901QT (NZ)
GC901QT (AUS)



PRODUCTS

Brand	Fisher & Paykel		
Model	Series	Code	Markets
GC901	1	88410	USA
GC901QT	1		NZ
GC901QT	1		Aust

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1.0 SPECIFICATIONS

1.1 Product Dimensions

	GC901/GC901QT
Length	36" (914mm)
Width	21 ¹ / ₂ " (546mm)
Depth below bench/counter-top	2 ⁹ / ₁₆ " (65mm)

1.2 Model Explanation

GC901 model is made for the US/Canadian market with Auto reignition.

GC901QT model is made for the NZ/Australian and GB/IE market with Flame Failure and is known as Titan Gas Cooktop. (Q= Quantum, T= Titan).

1.3 Bench/Counter-Top Cut-Out Dimensions for GC901/GC901QT

	Min	Max
Length	33 ⁷ / ₈ " (858mm)	35 ¹ / ₄ " (894mm)
Width	19 ¹ / ₈ " (485mm)	20 ⁵ / ₈ " (526mm)
Depth for clearance	2 ⁹ / ₁₆ " (product) + ³ / ₄ " (ventilation) = 3 ⁵ / ₈ " below bench	

1.4 Clearances for USA

- Minimum horizontal distances from side and back of cutout to adjacent vertical combustible walls (extending a minimum of 18" (457mm) from above the top panel) must be 1¹/₄" (32mm) from the left side wall, 1" (25mm) from the right side wall and 1¹/₄" (32mm) from the rear wall.
- Minimum horizontal distance from front edge of counter to front side of cutout 1¹/₄" (32mm). Where this reduces the distance between the back edge of the cutout and the adjacent wall to less than 1¹/₄", this wall must be of a non combustible material.
- Minimum clearance to combustible surface centred above cooking surface 30" (762mm).
- Minimum horizontal distance between overhead cabinets installed on either side of this appliance 36" (914mm).
- Maximum depth of overhead cupboards, 13" (330mm).
- These distances shall be from the outermost edge of the top panel.

1.5 Clearances for Other Markets

- See Installation Instructions supplied with the product.

1.6 Burners & Rating
GC901/GC901QT

	GB/IE GC901QT				USA/Canada GC901			
	NG (I _{2H}) (20mbar) kW	Orifice Size	LPG (I ₃₊) (28-30/37 mbar) kW	Orifice Size	NG 4" BTU	Orifice Size	LP 11" BTU	Orifice Size
Auxiliary / Simmer Front Right					3,000	0.85	3,000	0.55
Semi Rapid Rear Left					7,000	1.22	5,950	0.7
Rapid Right Rear & Front Left					10,000	1.45	9,500	0.85
Wok Centre					14,000	1.75	13,000	1.05
Total					44,000		40,950	

Note: Kits of high altitude orifices are available for GC901 (these are also suitable for GC901QT models). NG Part No. 531566 LPG Part No. 531567
 These orifices should be used at approximately 6000 feet or above.

Serial and model numbers are located on the underside of the product. An extra label is provided to the installer in Australia/New Zealand to be placed in a convenient location.

1.7 Controls

GC901QT 5 x Flame Failure Valve P/N 530302
GC901 5 x Standard Gas Valve P/N 530029

1.8 Electrical

GC901QT

Mains Powered Ignition System - 220/240V 0.6VA Part No. 530033

GC901

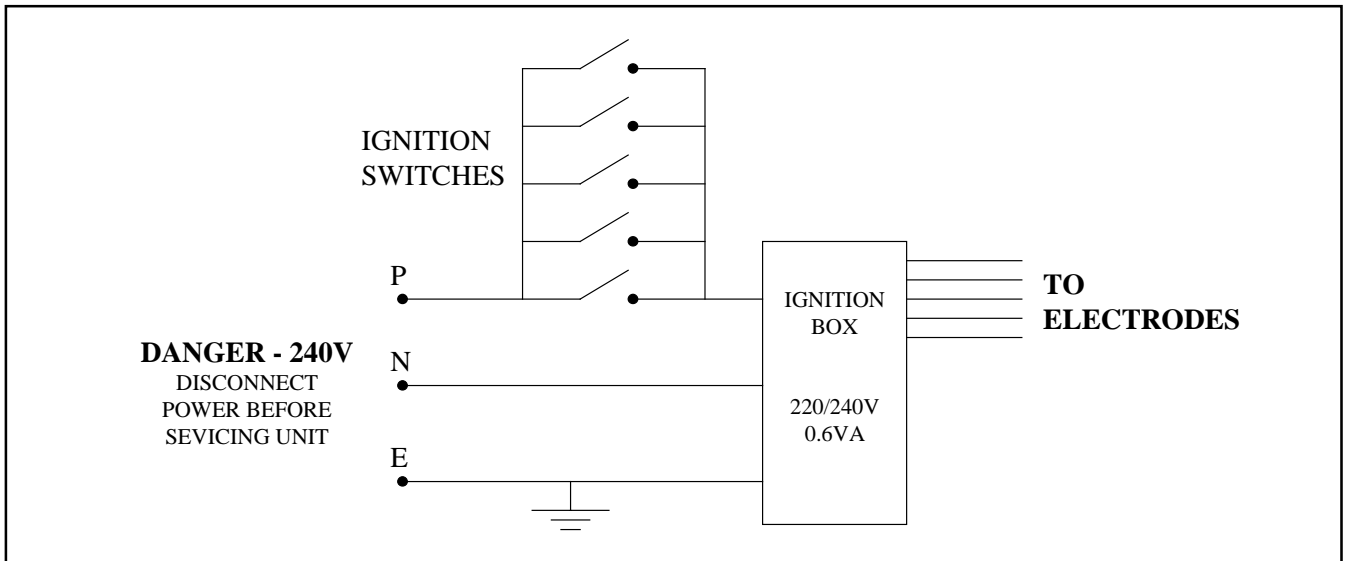
Mains Powered Auto Reignition System 120V 60Hz 2V A Part No. 530308

1.9 General Warning

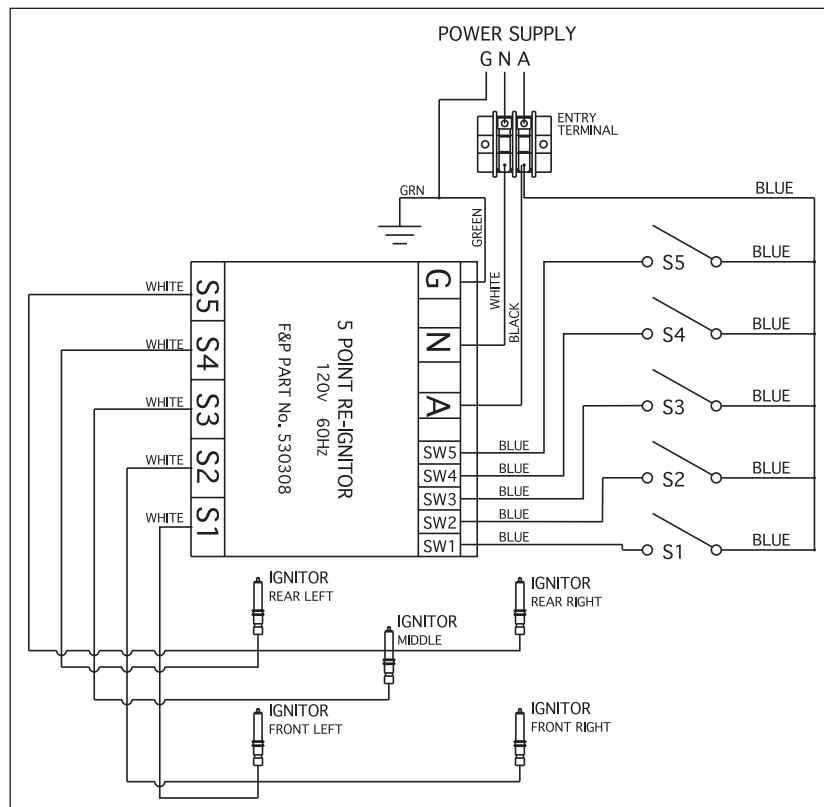
Gas products can only be installed and serviced by qualified Gas Service Persons.

2.0 WIRING DIAGRAMS

2.1 Schematic Wiring Diagram for GC901QT Series Gas Cooktops Ignition Circuit (NZ, Aust, UK)



2.2 Schematic Wiring Diagram for GC901 Gas Cooktops Ignition Circuit (USA & Canada Only)



3.0 REPLACEMENT OF BURNER ORIFICE & LOW SETTING

3.1 Minimum Setting or Turn Down

Note: This is not possible in the UK and Ireland as the gas valves have been sealed.

This has been set at the factory but can be checked after the correct pressure has been reached.

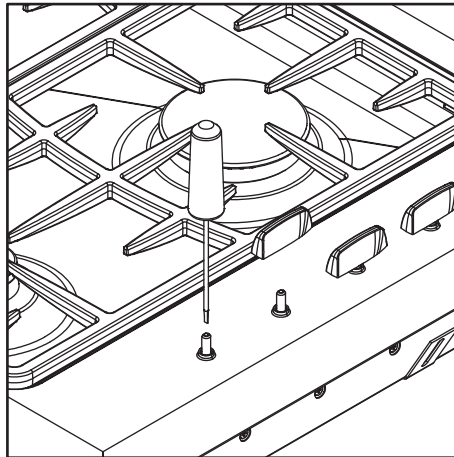
To adjust for minimum setting, if needed, you will need a 2.5 diameter x 45mm ($7/64$ " diameter x $1\frac{3}{4}$ ") screwdriver. (In the USA, this Screwdriver is available as Part No. FB200467.)

3.1.1 Remove the knobs.

3.1.2 Ignite the burner and set the knob to its minimum position.

3.1.3 Rotate the turn down screw (down the hole in the valve spindle). Rotate slowly until a minimum regular flame is achieved. (The flame will diminish when the screw is turned clockwise and increase when turned counter-clockwise).

3.1.4 When the setting is right check regulation by quickly rotating the knob from the maximum to the minimum delivery position. The flame must not go out. Replace the knob.



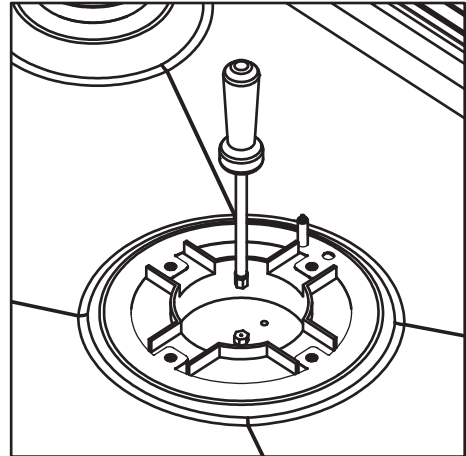
3.2 Conversion to Different Gas Type

Note: For the UK/Ireland, the products must not be converted between gases. The gas valves have been sealed.

Burners can be used with NG or LP types of gas, provided that the injector orifice appropriate for the gas delivered are installed. Use a 7mm ($\frac{9}{32}$ ") box spanner or socket to remove the orifice.

To change the injector orifice:-

- 3.2.1 Turn off the mains supply.
- 3.2.2 Ensure all gas valves are turned off.
- 3.2.3 Remove all burner heads.
- 3.2.4 Unscrew the orifice using a 7mm socket and replace them with the correct ones. (Size numbers stamped on side e.g. 70 = 0.70mm)
- 3.2.5 Reset minimum setting (see Section 3.1).

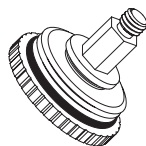


The label supplied with the orifice kit can be placed over the existing gas type label to indicate the change.

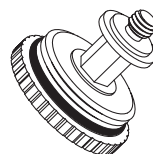
Note: Kits of high altitude orifices are available for GC901 (these are also suitable for GC901QT models). NG Part No. 531566 LP Part No. 531567
These orifices should be used at approximately 6000 feet or above.

3.2.6 To change the gas pressure (4"NG, 11"LP): (USA/Canada Only)

1. Unscrew the cap from the regulator.
2. Check the orientation of the plastic conversion plug, and if necessary, unscrew, turn over and screw back in (wide section away from cap for LP and against cap for NG - see diagram below for appropriate orientation).
3. Replace regulator cap.
4. Test gas pressure (test point provision on side of regulator). When converting the regulator for different settings, the function of the regulator must be checked at a pressure at least 1"WC (249Pa) above the specified manifold pressure.



NG



LPG

4.0 REMOVAL OF PRODUCT TOP PANEL

4.1 How to Remove Product Top Panel

- 4.1.1** Lift off trivets/grates and burner heads.
- 4.1.2** Pull off knobs.
- 4.1.3** On GC901QT Flame Failure model unscrew the nut securing the flame failure probe on the simmer burner using a M7 ($\frac{9}{32}$ ") box socket.
- 4.1.4** Remove the two screws (four screws for wok burner) holding each burner. (To prevent damaging the screw head use a No. 1 Philips screwdriver.)
- 4.1.5** Lift off top panel hinging from the back. Note: The edge on stainless models can be sharp. (The auxiliary electrode unplugs from the ignition box if you want to get the hob out of the way.)
- 4.1.6** If you need to change the top panel, the Simmer burner electrode may be removed by unlatching the locating spring.
- 4.1.7** To replace, reverse the procedure.

5.0 REMOVAL OF COOKTOP FROM BENCH/COUNTER-TOP

It is probably easiest to service the internal components (gas valves, electronics) by removing the top panel rather than removing the product from the bench (see Section 4).

5.1 To Remove the Product from the Bench/Counter-Top

5.1.1 Disconnect the electrical supply.

5.1.2 Turn off gas supply and disconnect.

5.1.3 Loosen the clamping brackets at the front/sides (underneath).

5.1.4 Lift product out.

6.0 REPLACEMENT & SERVICING OF ELECTRONIC IGNITION

6.1 To Replace an Electrode

- 6.1.1 Disconnect from power.
- 6.1.2 Remove the product top panel - (see Section 4).
- 6.1.3 Unlatch the appropriate locating spring and remove the electrode. Replace
- 6.1.4 Reassemble in reverse order.

6.2 To Replace Ignition Box

- 6.2.1 Disconnect from power.
- 6.2.2 Remove the product top panel - (see Section 4).
- 6.2.3 Unplug the electrodes and the multiway plug from the ignition box.
- 6.2.4 Replace the box. the ightion box is held down by double sided foam tape.
- 6.2.5 For the auto reignition box.
Electrode wires must be plugged into correct terminals. Terminal Numbers on the ignition box correspond to:
 - #1: Front left burner
 - #2: Front right burner
 - #3: Middle burner
 - #4: Rear left burner
 - #5: Rear right burner
- 6.2.6 Reassemble in reverse order.

6.3 To Replace the Microswitch Harness (GC901 Only)

- 6.3.1 Disconnect from power.
- 6.3.2 Remove the product top panel - (see Section 4).
- 6.3.3 Lift off microswitch assembly and replace.
- 6.3.4 Reassemble in reverse order.

7.0 GAS VALVES

7.1 To Change a Gas Valve

7.1.1 Turn off gas supply and electricity.

7.1.2 Remove the product top panel (see Section 4).

7.1.3 Disconnect ignition switch wires.
Lift off microswitches.

7.1.4 Disconnect male 1/2" nut on rear of unit to gas supply.

7.1.5 Remove screw holding valve to manifold bracket through hole in the right hand side of the basepan.

7.1.6 Change gas valves. Ensure new valve lines up with other valves and the holes in the top panel. It's alignment depends on tightness of the clamping screw as well as the shape of the gas pipes (which may push the manifold sideways).

7.1.7 Replace in reverse order. Leak test with a suitable leak detection fluid, e.g. Rocol.
Reconnect ignition switch wires (replace microswitch for GC901).
Note: Remember to test the gas valve outlet with the valve turned on.

7.1.8 Check turndown setting (see Section 3).

7.1.9 Replace product top panel.

7.2 To Re-Grease Gas Valves

7.2.1 Remove product top panel.

7.2.2 Remove circlips from each gas valve to free the microswitch assembly.
Lift off microswitches.

7.2.3 Unscrew the two Philips screws on the top of the gas valve.

7.2.4 Gently lift out the valve cone, clean with solvent.

7.2.5 Re-grease with high temperature grease. (e.g. ROCOL HT, Otimol HT2EP, Ragasine Moly LM). Replace.

7.2.6 Move it around, remove excess grease, remove and check holes in the core or body are not blocked, replace.

7.2.7 Open and close a couple of times.

7.2.8 Check for leaks with leak detection fluid e.g. Rocol Leak Detection spray) and re-assemble in reverse order.

8.0 PROBLEM SOLVING AUTO REIGNITION (USA Model)

8.1 Gas Doesn't Light - No Spark

Check source of mains supply.

Check spark gap is not too wide (burners sitting correctly).

Check electrodes/burners are clean (use rubbing alcohol and an old toothbrush).

Check continuity from the box to the electrode and from the burner or earthing point to the earth connection on the box.

Check the high tension leads are not coiled, as this may result in a loss of voltage to the electrode. (Use correct length leads and locate in correct position.)

Check for damage to the wire insulation and that the leads are not against parts that will heat up during operation.

8.2 Gas Doesn't Light - Spark but no Ignition

Check the cooktop and regulator are set up for the correct gas type and pressure (factory set for NG).

Check location of ignitors and make sure spark gap is not too wide.

Check the burner components including the burner cap are sitting correctly.

Check electrodes/burners are clean (use rubbing alcohol and an old toothbrush).

Check the high tensions leads have not been coiled, as this may result in a loss of voltage and a spark of insufficient energy to ignite the gas. (Use correct length leads and locate in correct position.)

8.3 Sparking Continuously after Ignition

Check the polarity of the electrical supply is correct to the ignition box (incorrect polarity will cause a problem.)

Check electrodes are clean (use rubbing alcohol and an old toothbrush).

Check the cooktop is correctly earthed (lack of earthing **will** cause a problem).

Check the cooktop and regulator are set up for the correct gas type and pressure (factory set for NG). Check the correct jets are used for each burner.

8.3.1 Determine the Problem Burners

1. Turn all the burners off.
2. Turn on one burner at a time to check which are OK and which continue sparking after ignition. With each you should check the high position, the low position and the behaviour with a large pot, before turning it off and moving on to the next burner.

3. If the problem occurs with either the front left or right rear rapid burners. Replace with new burner spreader (Part No. 531605).
4. If the problem occurs with the central 'triple ring' burner. Check that the ceramic body has not been damaged. Replace with a new electrode (Part No. 531603).
5. Check each burner lights and doesn't continue sparking.

8.4 Flame Goes Out on Low Setting

Check the cooktop and regulator are set up for the correct gas type and pressure (factory set for NG).

Check the burners low setting is correct (see Section 3.1).

8.5 Flame is Distorted or Large and Yellow

Check the cooktop and Regulator are set up for the correct gas type and pressure (factory set for NG).

Check the burner components including the burner cap are sitting correctly.