

# **Myson Heating Limited**

**Installation and Maintenance Manual** 

# Apollo Fanfare 15/30*i* and 30/50*i* Wall mounted gas boilers

G. C. Appliance Nos. Apollo Fanfere 15/301 4178973 Apollo Fanfare 30/501 4178974



# **Myson Heating Limited INSTALLATION Apollo Fanfare** 15/30*i* and 30/50*i* Wall mounted gas boilers

G. C. Appliance Nos. Apollo Fanfare 15/30*i* 4178973 Apollo Fanfare 30/50*i* 4178974 **For use with Natural Gas only.** (Leave these instructions adjacent to the gas meter).

fhis appliance must be installed by a competent person as stated in the Gas Safety (Installation and Use) Regulations 1984.

The inner case of this boiler should not be removed during installation.

Read these instructions thoroughly before installing the boiler.

Attention to the following points is important to ensure a trouble free installation.

- The Apollo is to be used only on fully pumped systems, and with an indirect hot water cylinder.
- Only high head pumps producing at least 3.35 m (11 ft) head at a flow rate of 1146 litres/h (4.2 gal/min) must be used.
- 3. Connect the pump in the flow pipe as shown in frame 19.
- 4. Mains electricity and the pump must always be connected to the boiler to allow the pump overrun to function.
- 5. It is important that the polarity of the mains supply is correct and that the boiler is adequately earthed.
- 6. For open vented systems a combined or close coupled feed and vent must be connected as shown in frames 19 and 20.
- 7. A system by-pass is essential. The by-pass should be of 15 mm pipe and must be as short as possible across the 22 mm flow and return pipes and at least 1.5 m away from the boiler. Install and adjust the by-pass as described in frames 19 and 29 respectively.
- 8. The system wiring must be completed in accordance with the diagrams supplied with the boiler.
- 9. When commissioning, the system must be vented and the pump running before the main burner is lit.
- 10. The system must be flushed twice; initially cold with the pump removed and all valves open, and then after the first heating.
- 11. For sealed systems see frame 32.
- 12. Where the Apollo replaces an older boiler in an existing system, make sure the cylinder is indirect (see 1, above).
- In press with bard or appressive water via recommend that Fernox CP3 inhibitor should be used. In thema 22 for datable of use.

### General

These fanned draught balanced flue wall mounted boile are for use on natural gas only, and are suitable for rear or side exit flue.

The Apollo Fanfare 15/30L is range rated from 4.4 to 8.8 kW (15 000 to 30 000 Btu/h).

The Apollo Fanfare 30/50*i* is range rated from 8.8 to 14.7 kW (30 000 to 50 000 Btu/h).

The boiler must be installed in accordance with:

The Gas Safety Regulations, 1972.

The Gas Safety (Installation and Use) Regulations 1984. Local Building Regulations.

By-Laws of the local Water Undertaking.

IEE Wiring Regulations.

Detailed recommendations are stated in the following British Standard Codes of Practice: CP331:3:1974. BS5376:2:1976, BS5546:1979, BS5440:1:1978, BS5440:2: 1976 and BS5449:1:1977.

Note: Gas Safety Regulations: It is the law that all gas appliances are installed by competent persons, in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution. It is in your own interest, and that of safety to ensure that the law is complied with.

## Delivery

The unit is delivered in two packages (1) the cased boiler and (2) the flue/terminal assembly. The same flue/terminal assembly is used for both sizes of boiler. If required, a 1000 mm (39 in) flue extension is available. A plug-in programmer kit is also available to fit inside the boiler casing. This programmer simplifies wiring and is suitable for use with all external control systems shown in this instruction.

#### Gas supply

The Fanfare 15/30L requires  $1.1 \text{ m}^3/\text{h}$  (37 ft<sup>3</sup>/h) of natural gas, the Fanfare 30/50L requires  $1.8 \text{ m}^3/\text{h}$  (62 ft<sup>3</sup>/h). The meter and supply pipes must be capable of delivering this quantity of gas in addition to the demand from any other appliances in the house.

The complete installation must be tested for gas soundness and purged as described in CP331:3.

### **Electricity supply**

240V 50Hz via a fused double pole switch with a contact separation of at least 3 mm in both poles or preferably a fused 3-pin plug and shuttered outlet socket, adjacent to the boiler.

Fuse the supply at 3 amp.

Mains cable: 0.75 mm<sup>2</sup> (24 x 0.20 mm).

The external wiring between the appliance and the electrical supply shall comply with the latest IEE Wiring Regulations, and any local regulations which apply.

The appliance must be earthed.

In the event of an electrical fault after installation of the appliance, preliminary electrical systems checks can be carried out as described in the British Gas multimeter instruction book.

### Air supply

1. The room in which the boiler is installed does not require a purpose provided air vent.

2. If the boiler is installed in a cupboard or compartment, permanent air vents are required in the cupboard or compartment, one at high level and one at low level, either direct to the outside air or to a room. Both high and low level air vents must communicate with the same room or must both be on the same wall to the outside air. Both the high level and low level vent must each have a free area of 99 cm<sup>2</sup> (15 in<sup>2</sup>) for the 15/30i and 165 cm<sup>2</sup> (25 in<sup>2</sup>) for the 30/50i boiler. The free area of each vent may be halved if the ventilation is provided directly from outside.

#### Flue system

Five adjustable flue/terminal assemblies are available to fit the following wall thicknesses when using rear exit flue: 100-150 mm (4-6 in), 150-250 mm (6-10 in), 250-460 mm (10-18 in), 460-610 mm (18-24 in) and 610-1060 mm (24-42 in). Unless otherwise specified the 250-460 mm (10-18 in) flue/terminal assembly will be supplied with the boiler.

If side exit flue is used, the following method should be used to select the correct flue/terminal assembly.

A = B + C + 127 mm (5 in)

B = finished wall thickness.

C = distance between inside wall and side of white case. Dimension A gives the size of flue/terminal assembly to use. If A is greater than the largest flue/terminal assembly-1060 mm (42 in), the 1000 mm (39 in) flue extension should be used with the appropriate Note: The maximum allowable flue length is 2000 mm (78 in).

The boiler must be installed so that the terminal is exposed to the external air. It is important that the position of the terminal allows the free passage of air across it at all times. The minimum acceptable spacings from the terminal to obstructions, corners and ventilation openings are specified in the following table:

TERMINAL POSITION	MINIMUM
Directly below an openable window, air vent or any other ventilation opening	300 mm (12 in)
Below gutters: soil pipes or drain pipes	75 mm (3 in)*
Below eaves or a balcony	200 mm (8 in)*
Above adjacent ground or balcony level	300 mm (12 in) 1
From vertical soil pipes or drain pipes	75 mm (3 in)
From internal or external corners	25 mm (1 in)
From a surface facing the terminal	600 mm (24 in)
From a terminal facing the terminal	1200 mm (48 in)
Vertically from a terminal on the same wall	1500 mm (60 in)
Horizontally from a terminal on the same wall	300 mm (12 in)

• If the terminal is fitted within 850 mm (34 in) of a plastic or painted gutter/pipe or 450 mm (18 in) of painted eaves, an aluminium shield of at least 750 mm (30 in) in length should be fitted to the underside of the gutter/pipe or painted surface.

† If the terminal is fitted less than 2 m (6.6 ft) above a balcony, above ground or above a flat roof to which peopl have access then a suitable terminal guard must be provided.

A type K1 protective guard is available from Tower Flue Components Ltd at:

Vale Rise

Tonbridge

Kent TN9 1TB Tel: 0732 351555

When using side exit flue the air/flue tube may be 'hidden' by boxing in if required. See BS5440:1:1978, sub-clause 20-1 for details.

### Installation

The boiler must be mounted on a flat wall which is sufficiently robust to take the weight of the boiler. If the wall is of combustible material it must be protected by a sheet of non-combustible material of thickness not less than 25 mm (1 in).

Note: If the boiler is to be fitted into a house of timber frame construction, advice is available from your trade organisation or local Gas Region.

The boiler is designed for use with a fully pumped open or sealed central heating system and an indirect hot water cylinder. IT MUST NOT BE CONNECTED TO A DIRECT CYLINDER.

The boiler may be installed in any room, althougi, particular attention is drawn to the requirements of the latest IEE Wiring Regulations and, in Scotland, the electrical provisions of the building regulations applicable in Scotland, with respect to the installation of the boiler in a room containing a bath or shower.

Where the installation of the boiler will be in an unusual position, special procedures may be necessary and BS5376:2 and BS5546 give detailed guidance on this aspect.

A cupboard or compartment used to enclose the boiler must be designed and constructed specifically for this purpose. An existing cupboard or compartment may be used provided that it is modified for the purpose.

Details of essential features of cupboard/compartment design including airing cupboard installations are given in BS5376:2 and BS5546.

Boiler dimensions, minimum clearances and connection details are shown in frames 1 and 2.

The pump should be fitted in the FLOW pipe from the boiler.

The pump must be connected to the terminal block. see wiring diagram frame 31.

The flow through the boiler must not be allowed to fall below 690 litres/h (2.5 gal/min) for the 15/30i an 1146 litres/h (4.2 gal/min) for the 30/50i while the burne. is alight.

It is important that a by-pass is fitted, see frame 19. See frame 29 for adjusting the by-pass.

Fit one or more drain cocks to enable the water system to

## Data

Boiler	Fanfare 15/30L	Fanfare 30/50L		
Main burner	Furigas 175-500-003	Furigas 175-500-004		
Burner injector	Bray Cat 16/800	Bray Cat 16/1400		
lot injector	Honeywell BCR 18 390686/4			
Gas valve	Honeywell VR 4700E1018			
Ignition	Intermittent pilot. THORN EMI special control t			
Pilot flame	35-40 mm			
Overheat cutoff device	Elmwood 2455R-98-841			
'Hi' thermostat	Elmwood 2455R-98-971			
'Lo' thermostat	Elmwood 2455R-98-926 Thermodisc 60T13-500073 Smiths FFB0219/003			
Pump overrun stat				
Fan assembly				
Pressure switch	Yamataki C6052A1007 Kigass 8438 gap 2.0/3.0 mm			
Electrode				
Weight empty	21 kg (46 lb)	24 kg (53 lb)		
Water content	0.36 litre (0.08 gal)	0.50 litre (0.11 gal)		
*Head loss	0.38 m (15 in)	0.71 m (28 in)		
Max. static head	30.5 m (100 ft) 0.2 m (8 in)			
Min. static head				

Heat inputs and outputs together with burner setting pressures are given in frame 26.

In the event of any fault occuring during the commissioning of the boiler a fault finding guide is available in the maintenance instructions.

Head loss given is applicable only when the flow through the boiler is 690 litres/h (2.5 gal/min) for the Fanfare 15/30*i* and 1146 litres/h (4.2 gal/min) for the Fanfare 30/50*i*.



## FOR REAR EXIT FLUE Refer to frames 5, 6, 7, 8, 9 and 10 then proceed to frame 18



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## FOR SIDE EXIT FLUE Refer to frames 11, 12, 13, 14, 15, 16 and 17 then proceed to frame 18



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Pilot throttle

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- plastic fixings. 2. Lift the outer case into position over the boiler and push back
- to engage the fixing pins on the chassis side into the case. 3. Secure the case in position by
- replacing the bottom fixing screw.
- Slide the bottom cover into place.

# 29 ADJUST THE BY-PASS

- 1. Fully close the by-pass valve and then open it one full turn.
- Start the boiler with the heating circuit only in operation and adjust the pump speed selector to achieve not more than 9°C temperature rise across the boiler. This will usually require the pump to be set to maximum.
- If a temperature rise of 9° C or less cannot be achieved, gradually open the by-pass valve until the temperature rise decreases to 9° C.

Note: The by-pass valve should be of a type that is non adjustable by the householder.

# **30** HAND OVER THE INSTALLATION

Hand the USER INSTRUCTIONS to the User and instruct in the safe operation of the boiler and controls.

Advise the User of the precautions to prevent damage to the heating/hot water system and to the building in the event of the system remaining inoperative during frost conditions.

Advise the User that for continued efficient and safe operation of the boiler it is important that adequate servicing is carried out at intervals recommended by the Local Gas Region.

- Leave a permanent card attached to the boiler giving:
- 1. Name and address of installer.
- 2. Date of installation.
- 3. A wiring diagram of the circuit.





orange pk-pink

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-green and yellow

#### **REQUIREMENTS FOR SEALED SYSTEMS** 32 GENERAL The installation must comply with the requirements of BS5376:2 and BS5449:1. Maximum water temperature is 85°C ± 3°C SAFETY VALVE 2 A safety valve set to operate at 3 bar (45 lbf/in²) shall be fitted in the flow pipe close to the boiler. There must not be any valves between the safety valve and the boiler. The valve should be positioned on a discharge pipe fitted to prevent any discharge creating a hazard to occupants or cause damage to electrical components and wiring. 3. PRESSURE GAUGE A pressure gauge covering at least the range 0 to 4 bar (0 to 60 lbf.'in2) shall be fitted in the system. 4. EXPANSION VESSEL A diaphragm type expansion vessel, to BS4814, shall be connected at a point in the return pipe close to the boiler. The vessel must be chosen to suit the volume of water in the system and the charge pressure must not be less than the static head at the point of connection. Further details can be obtained from Material and Installation Specification for Domestic Central Heating and Hot Water' published by British Gas. Sizing Table 10 05 Air or Nitrogen charge pressure (bar) 15 None None 10 Pre-pressurisation pressure (bar) A x 0.088 A x 0.160 A x 0.07 A x 0.120 Expansion vessel volume (litres) A = System volume (litres). CYLINDER 5 The hot water cylinder shall either be the indirect coil type or a direct cylinder fitted with an immersion calorifier. 6 METHOD OF MAKE UP Water lost from the system shall be replaced from a make-up vessel, and non return valve, mounted higher than the top of the system on the return side of the cylinder or radiators. Where access to a make-up vessel would be difficult, make-up can be provided by pre-pressurisation of the system. FILLING 7. The system may be filled from the mains via a temporary hose connection from a draw-off tap supplied from a service pipe under mains pressure, provided that this procedure is acceptable to the local Water Authority. The following fittings should form a permanent part of the system and fitted in the order stated. a) a stop valve complying to the requirements of BS1010:2. b) a test cock. c) an anti-vacuum valve of a type approved by the National Water Council: and d) a non-return valve of an approved type. COMMISSIONING 8 Fill the system until the pressure gauge registers 1.5 bar (22 lbf/in2). Examine for leaks and rectify where necessary. Light the boiler and heat the system to the maximum working temperature. Examine for leaks then turn off the boiler. Drain the system while it is still hot. Refill, vent and adjust the cold fill pressure to the required value. TOP-UP AIR VENT The by-pass balancing valve must have BOTTLE at least 1.5m of 22mm pipe each side between it and the boiler. **EXPANSION** Ż FROM Radiators VESSEL Optional 15mm Balancing Zone PRESSURE valve Valve GAUGE 15mm TO Radiators 22mm 22mm PUMP Optional SAFETY 3-position VALVE valve DRAIN соск 🖂 П FILL A POINT

# Myson Heating Limited MAINTENANCE Apollo Fanfare 15/30*i* and 30/50*i* Wall mounted gas boilers

G.C. Appliance No's. Apollo Fanfare 15/30i 41 789 73. (Leave these instructions adjacent to the gas meter)

Apollo Fanfare 30/50i 41 789 74

## General

This booklet describes the annual maintenance procedure, provides instruction on the replacement of faulty parts and information on fault finding and spare part identification.

Before commencing work set the boiler thermostat switch to OFF. Allow the boiler to cool and isolate the electricity supply. Slide off the bottom cover and turn off the gas supply at the service tap, see frame 33.

IMPORTANT: ALWAYS test for gas soundness after completing any servicing or exchange of gas carrying components. Ensure that the inner case seal is intact and the case properly fitted after servicing or replacement of parts.

BOILER	00	OUTPUT		INPUT		BURNER SETTING PRESSURE		
	kW	Btu/h	kW	Btu/h	mbar	in w.g.		
Fanfare	4.4	15 000	5.6	19 200	4.6	1.8		
15/30i	6.6	22 500	8.4	28 700	10.0	4.0		
	8.8	30 000	11.0	37 500	14.8	5.9		
Fanfare 30/50L	8.8	30 000	11.4	38 900	5.6	2.2		
	11.7	40 000	14.9	50 900	9.2	3.7		
and a share shared	14.7	50 000	18.3	62 500	13.7	5.5		

# ANNUAL MAINTENANCE

## DISMANTLING

Remove the screw securing the bottom of the outer case and pull off the case Remove the two screws 'A' securing the winng centre and lower the wiring centre.

If a programmer is fitted, unplug the programmer plug from the wiring centre and slide out the programmer If a programmer is not fitted, slide out the facia panel.

Replace the wiring centre. Unscrew the four inner case lixing screws 'B' and remove inner case. The heat exchanger and burner should be examined to determine it cleaning is necessary before completely dismantling. To do this, slacken the two wing nuts securing the flue hood to the combustion chamber. Remove the four screws and one wing nut securing the combustion chamber front cover and withdraw cover.

Examine the heat exchanger and burner. Should the burner not require cleaning it should be covered over before cleaning the heat exchanger.





- Disconnect the electrode lead from the ignition control box and withdraw the lead and grommet through the chassis.
- 2. Undo the nut and disengage the electrode.
- 3 Undo the nuts and disconnect the pilot supply from both the pilot assembly and gas valve.
- Carefully remove the pilot injector





# REPLACEMENT OF PARTS

## **15** TO REPLACE THE PILOT BURNER, INJECTOR OR ELECTRODE



17

1. Remove the outer and inner cases (see frame 1). Spark electrode: Disconnect the electrode lead from the ignition control box and withdraw the lead and grommet through the chassis. Undo the nut and disengage the electrode. Insert a new electrode and secure with nut. Pass the electrode lead through the chassis and fit the grommet in position.

Connect the electrode lead to the ignition control box. Check that the gap is 2.0/3.0 mm.

Pilot injector: Remove the electrode and disconnect the pilot supply. Carefully remove the pilot injector. Fit new injector and re-connect pilot supply. Replace the electrode and check that the gap is 2.0/3.0 mm.

## TO REPLACE THE BURNER

NOTE: The burner titled may be either Furigas (silver) or Bray (blue) either may be used as a replacement for the other.

- 1. Remove the outer and inner cases (see frame 1).
- Slacken the two wing nuts securing the flue hood to the combustion chamber. Remove the four screws and one wing nut securing the combustion chamber front cover and withdraw the cover.
- Remove the burner assembly as described in frames 2, 3 and 4.
- 4 If necessary remove the pilot assembly and fit to new burner.
- Using a new O' ring in the burner manifold flange fit the burner and reassemble the boiler as described in frames 9. 10 and 11.
- 6. Refer to lighting instructions and light the boiler.
- 7. Test pilot connection at gas valve for gas soundness.
- Replace the inner case, programmer or facia panel and outer case.
- 9 Check the operation of the controls.
- 10. Replace the bottom cover.

## 16 Pilot Burner, Injector or Electrode—continued

Pilot burner: Remove the spark electrode, pilot supply and injector. Undo the two screws securing the pilot shield and pilot burner to the mounting bracket. Replace pilot shield and new pilot burner and secure with two screws. Replace the injector, pilot supply and electrode. Check that the gap is 2.0/3.0 mm.

#### Re-assemble:

- Replace the inner case, programmer or facia panel and outer case.
- 2. Refer to the lighting instructions and light the boiler.
- Check that the pilot flame envelops the electrode and extends 10 mm past it (approximately 35-40 mm long). If necessary adjust the pilot throttle screw—see frame 33.

## 18 TO REPLACE THE BOILER 'Hi' or 'Lo' THERMOSTATS

The 'Hi' thermostat is marked with brown paint and the 'Lo' thermostat is marked with white paint.

- Remove the outer and inner cases (see frame 1)
- 2. Disconnect the two wires from the thermostat.
- Unscrew the two screws securing the thermostat and remove thermostat.
  Ensure that the mounting plate is clean.



Fit a new thermostat and secure with two screws. 6. Re-connect the two wires. The polarity of these wires is not

polarity of these wires is not important. Ensure that the brown wire goes to the 'Hi' thermostat and the white wire goes to the 'Lo' thermostat. The yellow wires are common.

Replace the inner case. programmer or facia panel and outer case.

Refer to the lighting instructions and light the boiler. Allow the boiler to heat up. Check that the 'Hi' thermostat switches the boiler off and on when the boiler thermostat switch is set to HIGH. Set the boiler thermostat switch to LOW and check that the 'Lo' thermostat switches the boiler off and on.

9. Replace the bottom cover





## 27 TO REPLACE THE OVERHEAT CUT OFF DEVICE

The overheat cut-off device is marked with grey paint so as not to be contused with the Hi or Lo thermostats.

- Remove the outer and 1 nner cases (see frame 1)
- 2 Disconnect the two wires from the overheat cut-off device.
- 3 Unscrew the two screws securing the cut-off device to the heat exchanger and remove cut-off device.
- Ensure that the mounting 4 plate is clean.
- 5 Fit a new cut-off device and secure with two screws.
- Re-connect the two wires 6
- The polarity of these wires is not important. Ensure that the grommet is in position in the air restrictor plate. 7 Replace the inner case, programmer or facia panel and cuter case.

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Refer to the lighting instructions and check that the pilot and main 8 burner will light

#### TO REPLACE THE COMPLETE 29 FAN ASSEMBLY

Remove the outer and inner cases (see frame 1) Unplug the two plugs and sockets attached to the pressure switch mounting bracket.



Remove two screws (one each side) securing the fan assembly to the flue hood and withdraw forwards to remove the complete fan assembly. 4. Ensure that the gasket is intact around the opening in the flue

1

hood. Fit the new fan assembly locating it over the two studs. Secure with two screws (one each side). Tighten to form a seal

between the fan assembly and flue hood. NOTE: The two studs are for locating purposes only

Re-connect the two plugs and sockets. Replace the inner case.

- outer case. Refer to the lighting instructions 8.
- and light the boiler

0 Check that the tan switches on and off as the main burner cycles on and off respectively 10 Replace the bottom cover

## Air Flow Pressure Switch—cont.

- Remove the complete fan assembly as described in frame 29. Disconnect the two wires from the microswitch (noting their position). 3
- Remove the two screws securing the pressure switch mounting bracket to the rear of the fan asembly. Remove the five screws securing the fan to the fan box and carefully. 4 remove the fan box Ensure the gasket is intact between the fan and the tan box
- Mark the position of the pressure sensing tube on the back of the fan. This is essential as the position is factory set and must be repositioned if it is inadvertently moved. 5
- Remove the two screws securing the pressure switch to the mounting 6 bracket.
- 8
- bracket. Carefully remove the pressure switch from the rubber tube. Replace the pressure switch and re-assemble in reverse order. Ensure that the pressure sensing tube has not moved. NOTE: The polarity of the micro switch wires is not important. Ensure they are connected to terminals COM and NO.
- Refit the boiler and check that the pressure switch allows the main 10
- burner to light. Replace the bottom cover 11

31

# 28 TO REPLACE THE PUMP OVERRUN THERMOSTAT

- Remove the outer and inner 1 cases (see frame 1)
- 2 Remove the ignition control box as described in frames 22 and 23 paras 1-6 and 9
- Remove the one screw 3 securing the pump overrun thermostat mounting bracket situated next to the wiring centre underneath the chassis. Carefully withdraw the bracket complete with thermostat.
- 4 Disconnect the three leads (noting their position) and remove the two screws securing the thermostat to the bracket.

Fit the new thermostat to the

mounting bracket and secure



- with two screws Connect the three leads to the thermostat (see wiring diagram) and 6 re-assemble in reverse order.
- Light the boiler and allow it to heat up fully. Switch off the boiler at the programmer or external controls and check that the pump runs for 5-15 minutes.
- 8. Replace the bottom cover.

## TO REPLACE THE AIR FLOW PRESSURE SWITCH



32

## TO REPLACE THE PILOT FILTER

NOTE: It is extremely unlikely that the pilot filter will become blocked. If the pilot injector and pilot supply are clear and the filter is still suspect proceed as follows:

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3.

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Ensure the gas suppry is OFF

19 and 20. 2. Remove the five screws

new one.

Remove the gas valve as described in frames

securing the rear cover plate on the gas valve and carefully remove it. Discard the gasket.

Carefully remove the pilot filter and replace with a

using a NEW gasket and secure by evenly. tightening the five screws.

Replace the rear cover



- Replace the gas valve in reverse order to frames 19 and 20.
- 5 Replace the inner case, programmer or facia panel and outer case. 6
- Light the boiler and check the rear of the gas valve and all gas valve connections for gas soundness. 7
- 8.
  - Replace the bottom cover.







NOTE: Link HW-ON is removed when any external controls are fitted.

	SELECTOR SWITCH CLOSED					
SERVICE	1	2A	28	3A	38	30
OFF						
CH OFF. HW ON	V	1.00				V
CH + HW	P				20	
CONT. CH + HW						
CONT. HW					and a	

12.12

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FAULT FINDING GUIDE

checks to be carried out during a fault finding procedure. On completion of the service/fault finding task which has Preliminary electrical system checks as contained in the BGC multimeter instructions book are the first electrical required the breaking and remaking of electrical connections, then the checks - A. Earth Continuity,

at the service top is

START



## APOLLO FANFARE ¿ EXPLODED VIEW



Encircled number denotes a complete assembly

# APOLLO FANFARE ¿ SHORT LIST SPARE PARTS

Key No.	GC No.	Description	Qty.	Part No.
1	359 230	Outer case	1	402A1215
8	322 997	Inspection window assembly	1	307A251
14	323 339	Plastic door	2	402C053
23	323 342	Combustion chamber insulation (sides)	2	402C104
24	323 405	Combustion chamber insulation (front), 15/30i	1	402C105
24	323 343	Combustion chamber insulation (front), 30/50L	1	402C178
25	323 406	Combustion chamber insulation (rear), 15/302	1	402C141
25	323 344	Combustion chamber insulation (rear), 30/50i	1	402C181
36	395 880	Overheat cut-off device	1	402C1498
38	382 397	'Hi' thermostat	1	402S114
39	382 373	'Lo' thermostat	1	402S115
45	384 208	Pump overrun thermostat	1	402S088
57	359 347	Burner and pilot assembly, 15/30L	1	402A1471
57	359 336	Burner and pilot assembly, 30/50L	1	402A1472
58	395 882	Burner, 15/30/	1	402S1484
58	395 883	Burner, 30/502	1	402S1491
59	398 316	Main injector. 15/30L	1	402S067
59	398 329	Main injector, 30/50L	1	307\$527
62	395 793	Pilot burner	1	Q371A1004
63	390 794	Pilot injector	-1-	390686/4
64	395 791	Spark electrode and lead	1.	308S229
70	323 361	Burner 'O' ring	1	402S098
76	395 796	Gas valve	1	VR4700E1018
80	359 221	Gas valve 'O' ring	2	400-0016-7-32
127	359 258	Fan assembly	1	402A1233
129	395 810	Air flow pressure switch	1	307S620
163	323 452	Programmer pins (3 green and 3 red)	6	402A302

168 359 341 Ignition control box. Special



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