

WARNING

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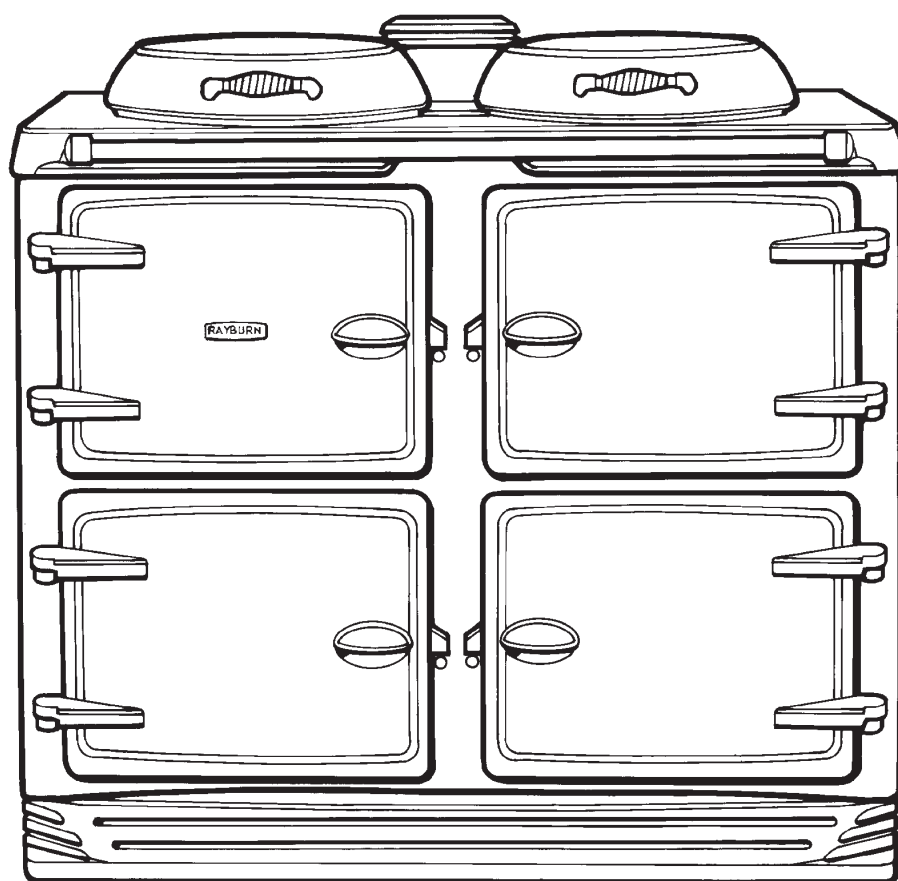


Servicing Instructions

Better than you ever imagined

Heatranger 880/8120/8150K

For use in GB and IE



DESN 514286

REMEMBER, when replacing a part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by AGA.

PLEASE READ THESE INSTRUCTIONS BEFORE SERVICING THIS APPLIANCE

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Consumer Protection

As responsible manufacturers we take care to make sure that our products are designed and constructed to meet the required safety standards when properly installed and used.

IMPORTANT NOTICE: PLEASE READ THE ACCOMPANYING WARRANTY.

Any alteration that is not approved by Aga could invalidate the approval of the appliance, operation of the warranty and could affect your statutory rights.

Health & Safety

This appliance may contain some of the materials that are indicated. It is the Users/Installers responsibility to ensure that the necessary protective clothing is worn when handling where applicable, the pertinent parts that contain any of the listed materials that could be interpreted as being injurious to health and safety, see below for information.

Firebricks, Fuel beds, Artificial Fuels

When handling use disposable gloves.

Fire cement

When handling use disposable gloves.

Glues and Sealants

Exercise caution - if these are still in liquid form use face mask and disposable gloves.

Glass Yarn, Mineral Wool, Insulation Pads, Insulation Fibre

May be harmful if inhaled. May be irritating to skin, eyes, nose and throat. When handling avoid contact with skin or eyes. Use disposable gloves, face-masks and eye protection. After handling wash hands and other exposed parts. When disposing of the product, reduce dust with water spray, ensure that parts are securely wrapped.

Kerosene and Gas Oil fuels (mineral oils)

1. The effect of mineral oils on the skin vary according to the duration of exposure.
2. The lighter fractions also remove the protective grease normally present on the surface of the skin. This renders the skin dry, liable to crack and more prone to damage caused by cuts and abrasions.
3. 'Oil acne' is recognised by the presence of skin rashes. The arms are most often affected, but may occur where there is contact with oil or oil clothing.
 - Seek medical attention for any rash.
 - Avoid skin contact with mineral oil or clothing containing mineral oil.
4. Inhalation of mineral oil vapours must be avoided. Never fire the burner in the open air as unburnt oil vapours are likely to occur.
5. Use a suitable barrier cream which will give protection against mineral oil, lanolin based hand cream are usually very effective.
6. Never syphon minerals oil by mouth. If accidentally swallowed, call a doctor, do not induce vomiting.

NOTE: SMOKE/SMELL EMITTED DURING INITIAL USAGE

Some parts of the cooker have been coated with a light covering of protective oil. During initial operation of the cooker, this may cause smoke/smell to be emitted and is normal and not a fault with the appliance, it is therefore advisable to open doors and or windows to allow for ventilation. Lift the lids to prevent staining the linings.

INTRODUCTION

To ensure the best performance from your Rayburn it should be serviced once a year; preferably at the start of the heating season.

This appliance must be commissioned by an approved engineer.

Failure to install and maintain the appliance correctly could lead to prosecution.

An additional flueway and combustion chamber clean halfway through the heating season may be necessary in some cases.

The Rayburn cannot be serviced whilst hot, so both oven and boiler thermostats should be turned off on the evening before the service visit.

SERVICE SCHEDULE

Annual Service

During annual service burner nozzles and burner head seals **MUST BE CHANGED**. Flexible oil lines must be changed every 2 years.

WIRING: Ensure there is no damage or loose connections. This should be carried out by a competent engineer.

BURNER REMOVAL - for cleaning and inspection.

CLEANING - Boiler heat exchanger, flueways, oven and hotplate flueways together with insulation fibre burner chambers.

BURNER SERVICING.

OIL PUMP SERVICING - Cleaning of fuel line strainer.

RE-COMMISSIONING

REPLACEMENT PARTS

Additional Flueway Clean

It may be necessary in some installations to give the boiler flueways a clean out at the end of the heating season.

Burner Removal

PREPARATION

WARNING: BEFORE REMOVING SERVICE ACCESS COVERS OR THE OIL BURNERS ENSURE THAT ALL ELECTRICAL SUPPLIES TO THE APPLIANCE HAVE BEEN ISOLATED.

The burners can be removed without disconnecting the oil supply pipe. However if the filters are being cleaned or a pressure gauge fitted to the pump then the oil supply should be turned OFF and arrangements made to catch any oil which will leak from the oil pump.

BURNER ACCESS

SEE FIG. 1

1. Open up the bottom burner access door. Remove door and put in a safe place.
2. Remove inner panel securing screw and remove panel

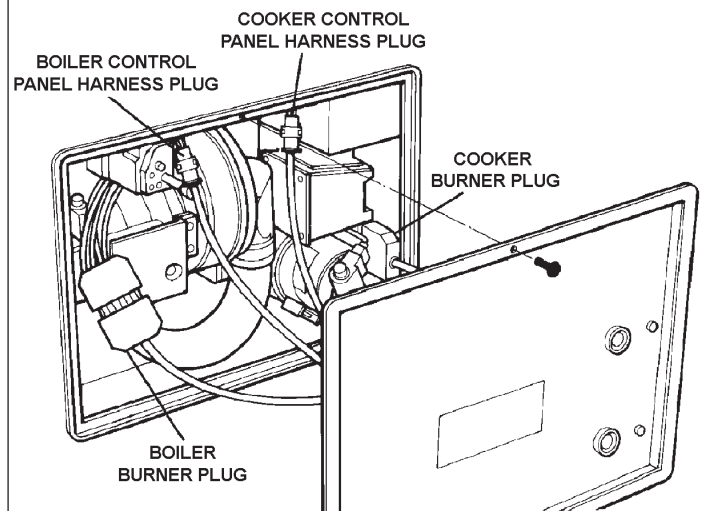


FIG. 1

DESN 514439

BURNER REMOVAL

IMPORTANT: DURING BURNER REMOVAL CARE MUST BE TAKEN NOT TO DAMAGE THE FIBRE INSULATION. THE BOILER BURNER NEEDS TO BE REMOVED FIRST.

BOILER BURNER - 880 ONLY (SEE FIG. 3)

1. Place a sheet on the floor in front of the cooker to act as a working area.
2. Disconnect air intake.
3. Remove 7 pin plug.
4. Undo retaining screws from flange withdraw boiler burner side.
5. Remove 2 fixing screws from air intake cover plate and remove.
6. Remove air transfer tube from cooker burner RH duct.
7. Undo two burner retaining nuts, lower burner and remove.

BOILER BURNER - 8120/8150 ONLY (SEE FIG. 4)

1. Place a sheet on the floor in front of the cooker to act as a working area.
2. Disconnect air intake.
3. Slacken retaining nut.
4. Rotate burner to right and remove.

COOKER BURNER REMOVAL (SEE FIG. 2)

1. Place a sheet on the floor in front of the cooker to act as a working area.
2. Remove boiler burner, as above.
3. Remove 2 fixing screws from air intake cover plate and remove.
4. Remove air transfer tube from cooker burner RH duct.
5. Undo two burner retaining nuts, lower burner and remove.

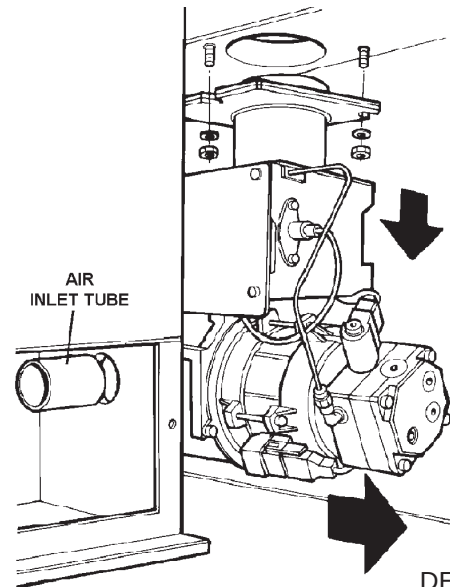


FIG. 2

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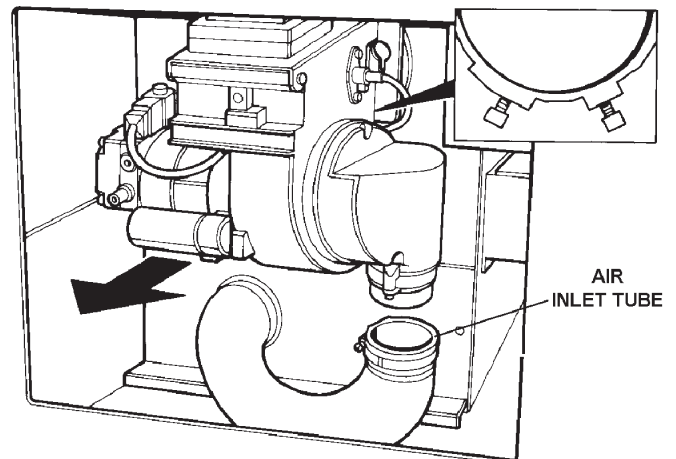


FIG. 3

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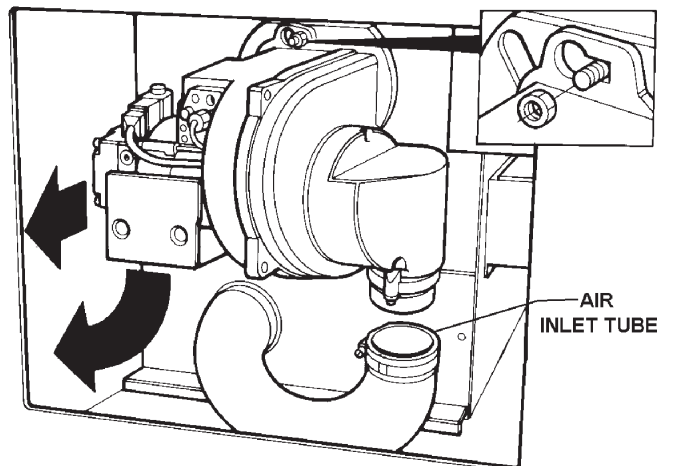


FIG. 4

DESN 514428

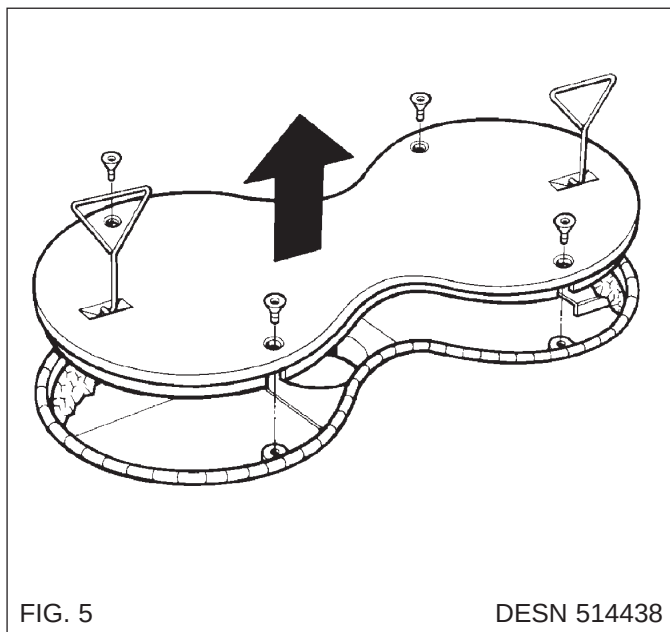
Cleaning

HEAT EXCHANGER CLEANING

IMPORTANT: DURING CLEANING CARE MUST BE TAKEN NOT TO DAMAGE THE FIBRE INSULATION.

SEE FIG. 5

1. Lift insulation covers and remove 4 fixing screws.
2. Using lifting hooks provided, remove hotplate.



SEE FIG. 6

3. Remove 2 flue cleaning access door securing bolts and remove door.
4. Remove the boiler flueway baffles from between boiler cross waterways.

The baffles are assembled in alternate directions, to allow gases to flow front to back through the assembly.

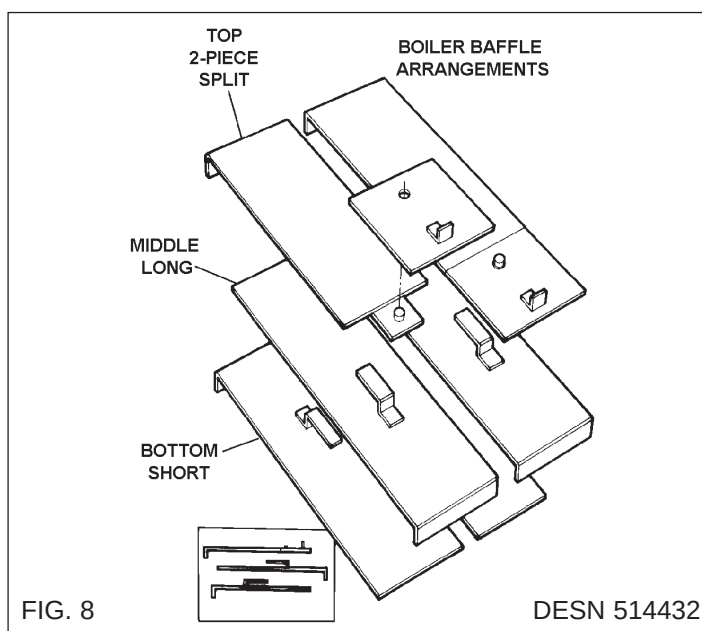
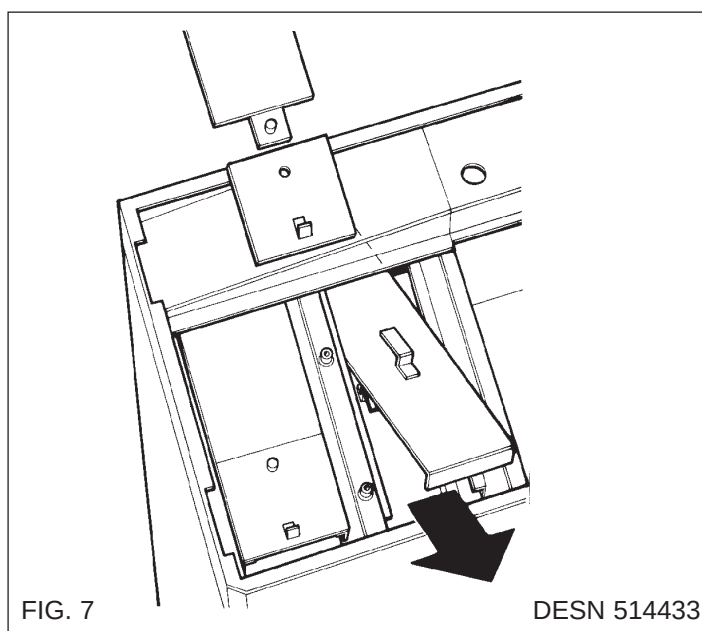
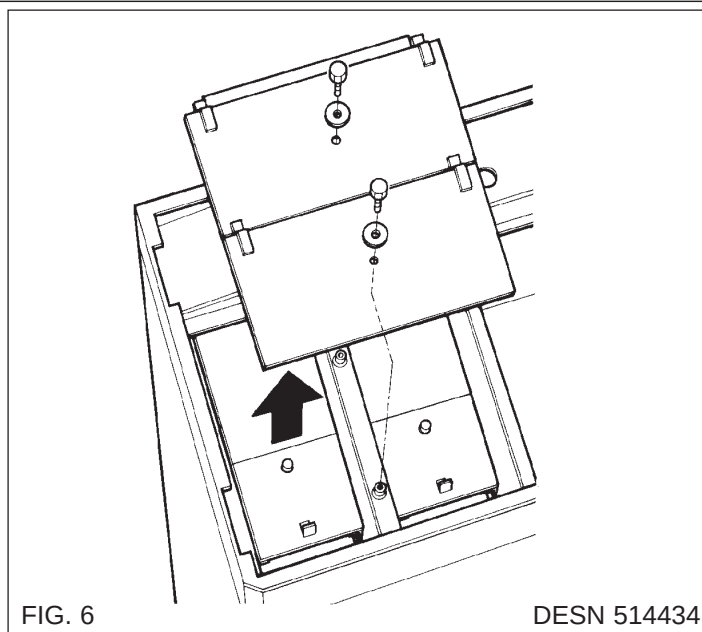
Each heat exchanger has two rows of baffles.

Total number of baffles fitted are:-

800 = 6 2 x 3

8120 = 6 2 x 3

8150 = 6 2 x 3



SEE FIG. 9

5. Clean the boiler outlet flueway by inserting the flexible brush through the rear aperture, directing it towards the flue outlet. Scrape the deposits towards the heat exchanger.
6. Thoroughly clean boiler heat exchanger flueway.
7. Carefully vacuum any debris that has fallen down into the burner chamber.
8. Clean and replace boiler flueway baffles in reverse order. Locate boiler flue access door, secure.
9. Replace insulation pad.

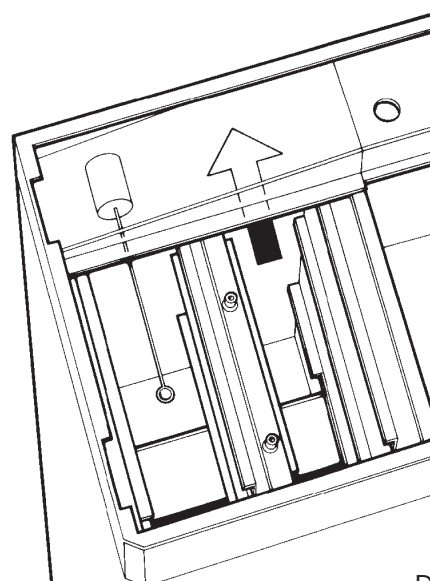


FIG. 9

DESN 514431

OVEN & HOTPLATE FLUEWAY CLEANING

SEE FIG. 10 & 11

1. Remove the top oven door and place in a safe position.
2. Remove base access door using hex. driver.
3. Thoroughly clean top, side and base flueways through access apertures with brush.
4. Remove all debris with vacuum cleaner.
5. Replace base access door. Secure in position using hex. driver.
6. Brush and clean in between hotplate ribs on underside.
7. Examine soft rope seal located around hotplate aperture in top plate. Replace if frayed or damaged.
8. Replace hotplate ensuring the underside ribs lie over the boiler, and that it seals to the top plate.

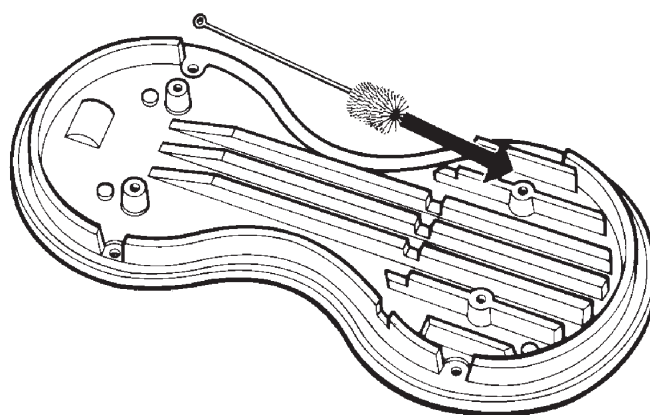


FIG. 10

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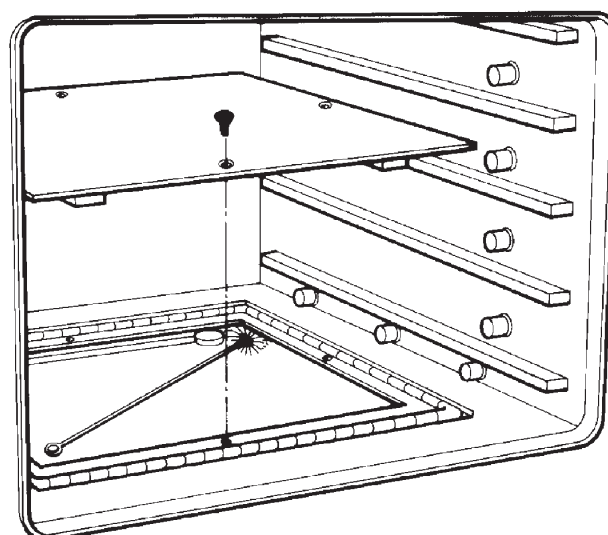


FIG. 11

DESN 514436

Burner Servicing

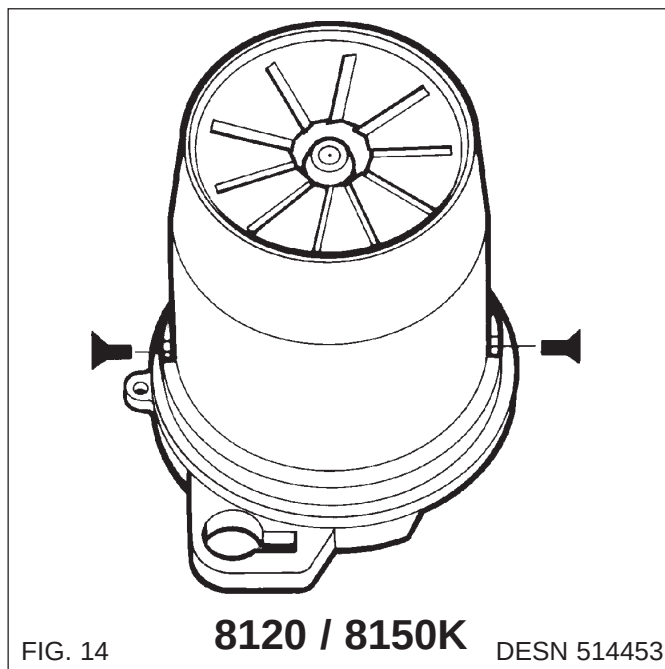
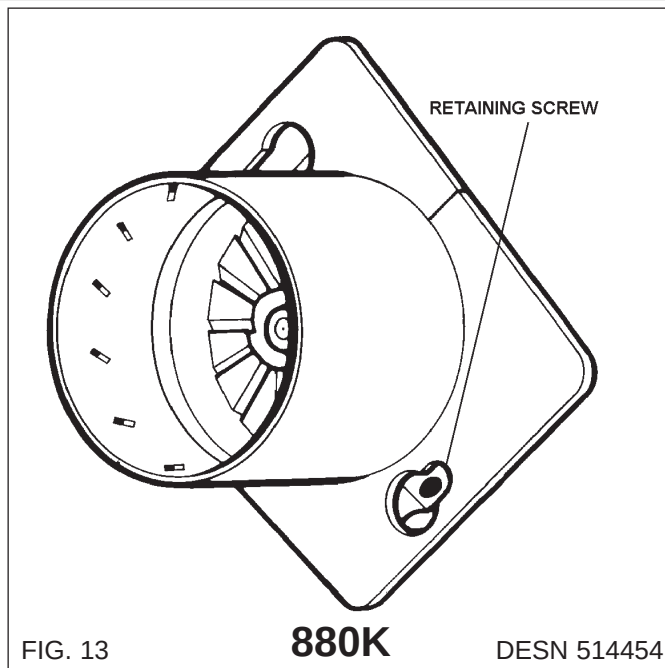
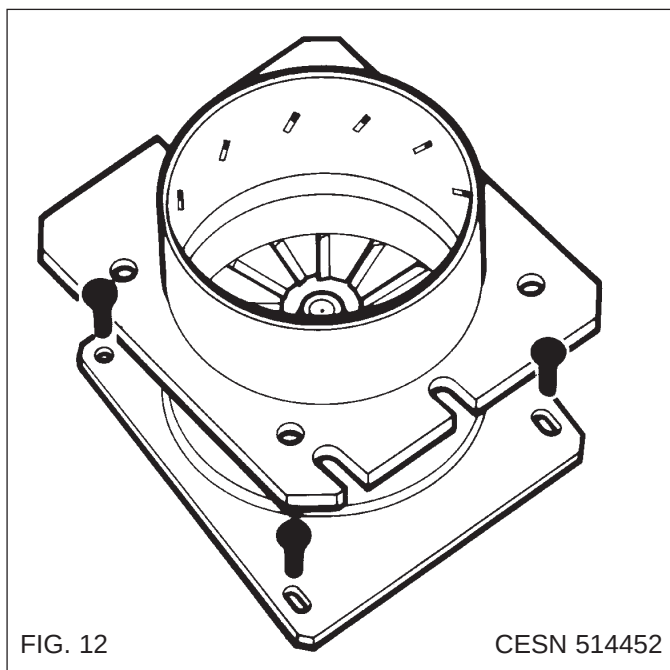
INTRODUCTION

SEE FIG 12, 13 & 14

It is recommended that each side of the burner is serviced individually so as not to get the components from the two burners mixed up.

The correct combination of burner blast tubes are shown.

To remove blast tube, slacken two grub screws, pull forward.



BURNER NOZZLE REMOVAL

BOILER BURNER REMOVAL (880 ONLY) (SEE FIG. 15)

1. Slacken 2 grub screws, pull tube forward.
2. Unscrew nozzle from its holder with a correct fitting tubular spanner.

BOILER BURNER REMOVAL (8120/8150 ONLY) (SEE FIG. 16)

1. Slacken 2 pozi screws, pull tube forward.
2. Remove ignitor assembly, by removing countersunk screw and clamp.
3. Unscrew nozzle from its holder with a correct fitting tubular spanner.

COOKER BURNER NOZZLE REMOVAL (SEE FIG. 17)

1. Disconnect oil feed pipe from pump.
2. Remove 4 Philips head screws.
3. Remove head assembly complete.
4. Disconnect ignition leads.
5. Remove socket head screw from back of head assy. Withdraw nozzle holder complete with ignitors.
6. Remove ignitor assembly, by removing countersunk screw and clamp.
7. Unscrew nozzle from its holder with correct fitting tubular spanner to avoid damage to hexagon.

BURNER NOZZLE REPLACEMENT

SEE FIG. 18

1. Replace nozzle by a new one of the same make and specification.
2. Ensure that mating faces are clean.
3. Hold nozzle holder with correct spanner when tightening nozzle.
4. Typically finger tight plus 1/4 turn with spanner is sufficient.
DO NOT OVERTIGHTEN.
5. Ensure electrode gaps are correct. (See Fig. 18)

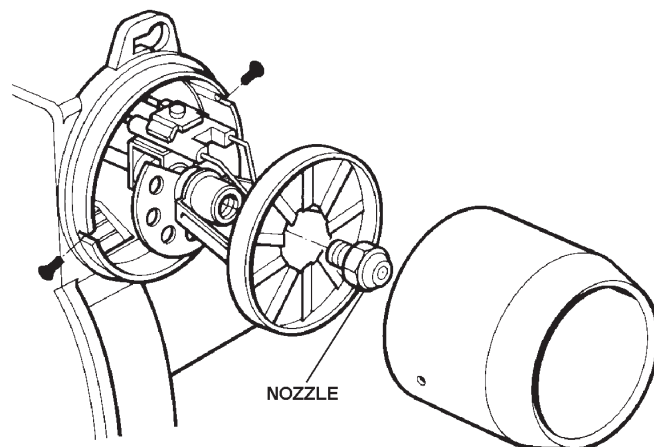


FIG. 16

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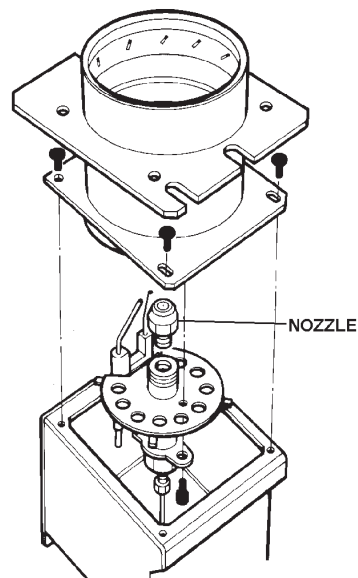


FIG. 17

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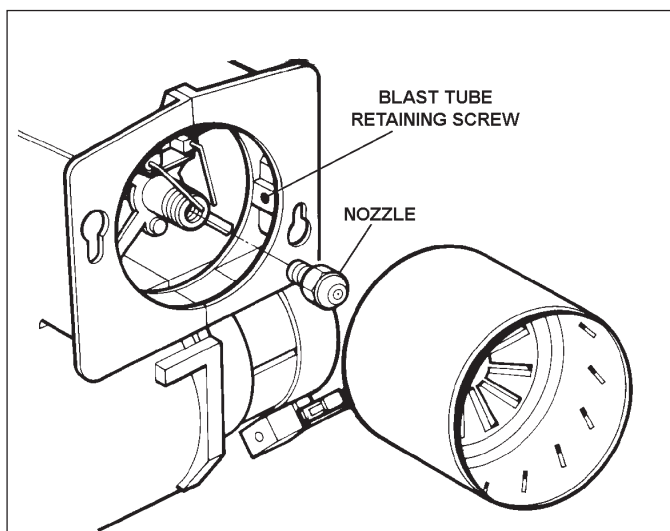


FIG. 15

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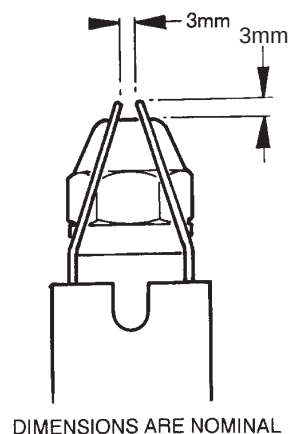


FIG. 18

DESN 510538

Burner Servicing

PHOTO ELECTRIC CELL (PEC) CLEANING

SEE FIG. 19 - 21

Withdraw Photo Electric Cell from the burner head. Clean PEC sensing end with a soft cloth taking care not to scratch the light sensitive body. Re-insert PEC taking care to insert the correct way round.

Should the cell show signs of distortion or cracking, replacement will be necessary.

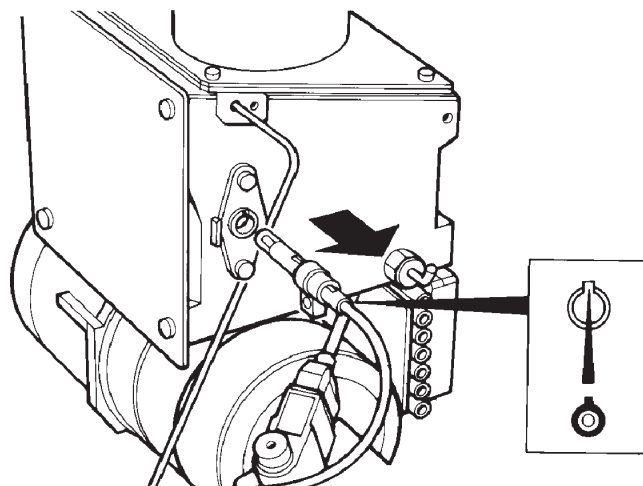


FIG. 19

DESN 514446

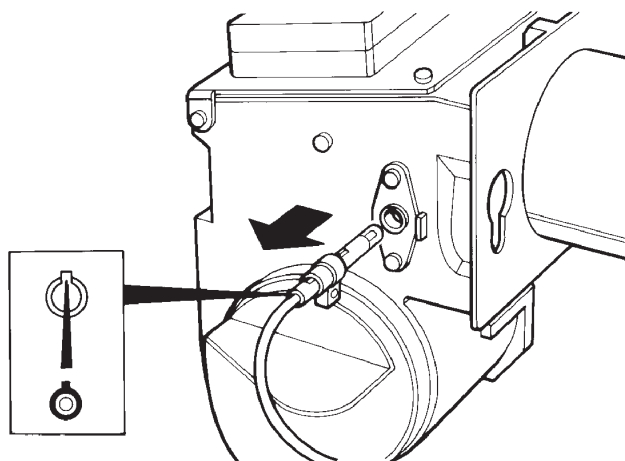


FIG. 20

DESN 514460

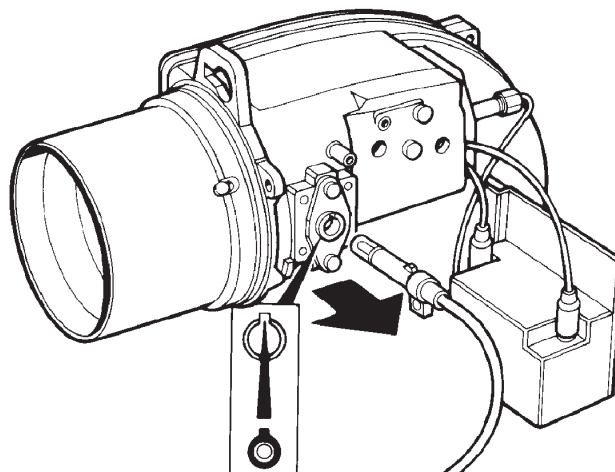


FIG. 21

DESN 514445

FAN CLEANING

1. Clean between the blades of the fan impeller with a small brush and remove any residue.
- 2A. **COOKER BURNER ONLY (SEE FIG. 22)**
The fan motor flange has 3 fixings to the fan case.
- 2B. **BOILER BURNER - 880 ONLY (SEE FIG. 22)**
The fan motor flange has 3 fixings to the fan case.
- 2C. **BOILER BURNER - 8120 / 8150 ONLY (SEE FIG. 23)**
Remove 4 pozi drive screws, pull off fan case inlet.
3. Withdraw assembly from burner body.
4. Clean impellor with a soft brush.
5. Spin motor to check that it burns easily,

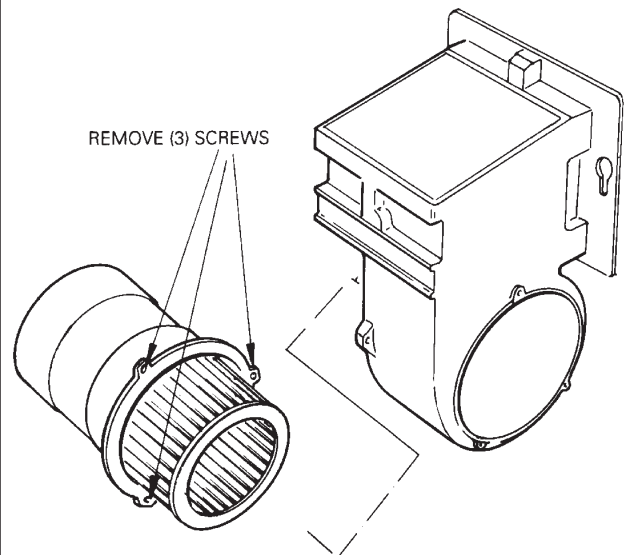


FIG. 22

DESN 511441

RE-ASSEMBLE BURNER

Re-assemble the burner in reverse order

NOTE: Burner head gaskets should be renewed at each service

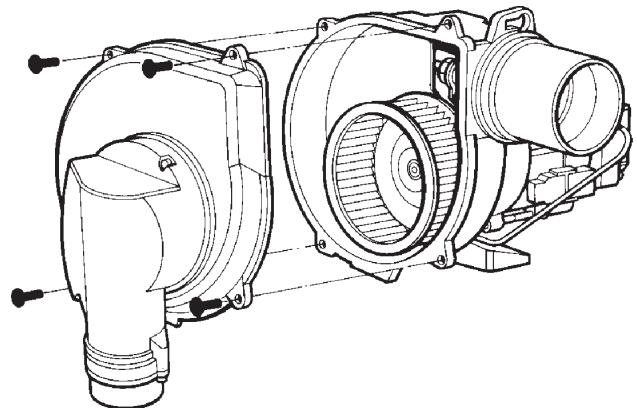


FIG. 23

DESN 514459

Oil Pump Servicing

INTRODUCTION - BOILER BURNER

To carry out any servicing on the oil pump. Turn off the oil line isolating valve near to the appliance.

OIL PUMP STRAINER CLEANING

SEE FIG. 24

1. Remove 4 socket head screws.
2. Remove filter.
3. Wash with clean petrol or paraffin.
4. Re-assemble in reverse order.

OIL LINE FILTER CLEANING

1. Turn OFF the line isolating valve fitted prior to the oil line filter.
2. Follow manufacturer's instructions to remove filter element from the housing, taking care to collect Kerosene residue from the filter housing.
3. Wash filter thoroughly in clean petrol or paraffin.
4. Re-assemble in reverse order.

NOTE: Flexible fuel hose (s) must be replaced every 2 years.

INTRODUCTION - COOKER BURNER

To carry out any servicing on the oil pump. Turn off the oil line isolating valve near to the appliance.

OIL PUMP STRAINER CLEANING

1. The oil pump strainer is situated on top of the pump.
2. Remove the cartridge filter with a hex. driver.
3. Wash with clean petrol or paraffin.
4. Re-assemble in reverse order.

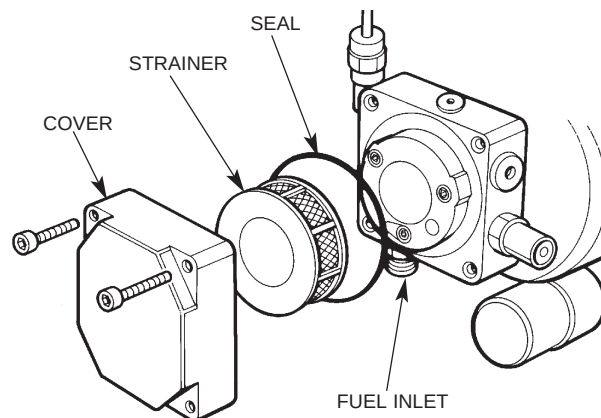


FIG. 24

DESN 512002

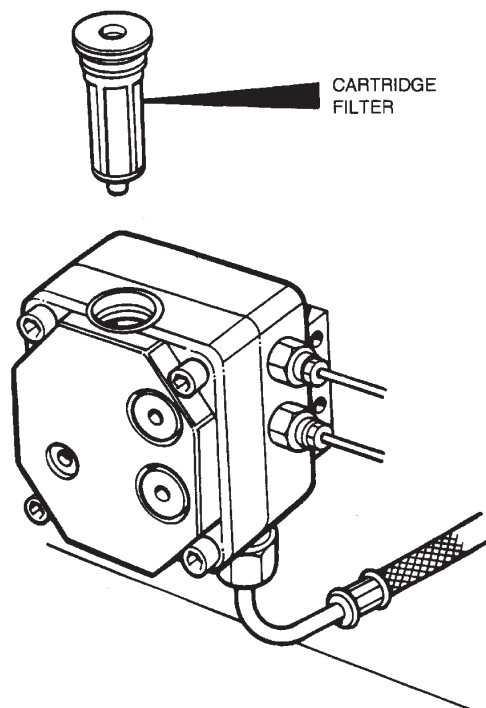


FIG. 25

DESN 511598

BLEED AIR FROM OIL SUPPLY

SEE FIG. 26 OR 27

Disconnect the flexible oil pipe line at the pump inlet, open the stop valve slowly and run off some of the oil into a receptacle to establish an air free supply to the pump. Remake the connection oil tight and leave valve open.

FIT PRESSURE GAUGE

SEE FIG. 26 OR 27

Remove the bleed screw from the manifold and fit an oil pressure gauge with R 1/8 connection to check the pump output pressure.

SWITCH ON ELECTRICITY

Set the boiler burner time clock to continuous and turn the boiler thermostat to maximum. The boiler burner should run on pre-purge for 7 - 15 seconds. With the ignition spark energised. The oil solenoid valve should open allowing the burner on fire.

Until all the air from the oil pump is flushed out there may be some flame instability resulting in the burner locking out. This will be shown by the burner stopping and the illumination of the signal light in the reset button of the control box. **IN THIS EVENT, WAIT AT LEAST ONE MINUTE**, then press the re-set button to restart.

VENT OIL PUMP

SEE FIG. 26 OR 27

Whilst the burner is running, vent air from the pump by slackening the pressure gauge port sufficient to allow air to bleed out. When bubble free oil seeps out re-tighten.

ADJUST OIL PRESSURE

SEE FIG. 26 OR 27

With the burner running check the oil pressure on the pressure gauge.

If the pressure gauge is not indicating the correct reading then adjust the pressure by turning the pressure regulator clockwise to increase or anti-clockwise to decrease until the pressure gauge reads the correct pressure.

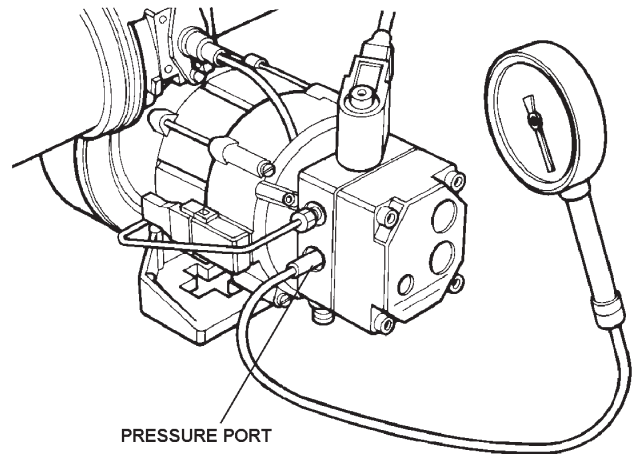


FIG. 26

880K

DESN 514450

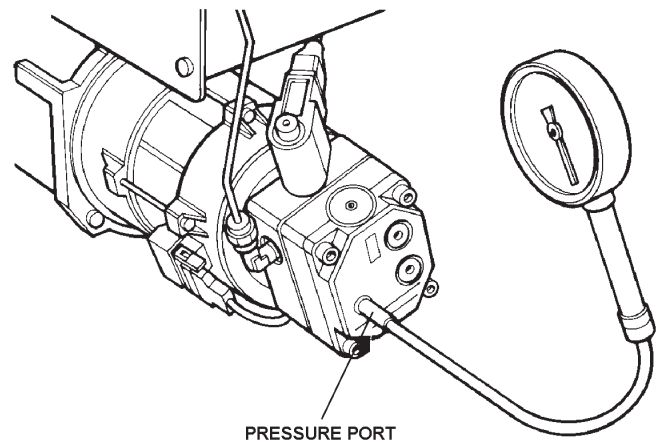


FIG. 27

8120/8150K

DESN 514451

Re-commissioning

SET COMBUSTION AIR

SEE FIG. 28

After 15 minutes of the boiler burner running.

Remove the enamelled centre shroud

Remove the left hand plugging screw and insert the sensing end of a portable indicator to check the CO² (Carbon Dioxide) level. Adjust the boiler burner air intake until a reading of **11.0/11.5%** is recorded on the indicator.

CHECK SMOKE

SEE FIG. 29

Remove the CO² sampling tube and using the same hole for flue sampling insert the sensing end of a Baccarach Smoke Pump and check that the smoke in the boiler flue ways does not exceed No. 2 on the scale.

Replace the plugging screw, insulation pad and cover panel.

Switch off the boiler burner.

COOKER BURNER - SEE FIG. 30

Switch on cooker burner.

After 15 minutes of the cooker burner running.

Repeat the above procedures for the cooker burner. To sample the flue gases from the cooker burner. Remove the RH countersunk headed screw in the hotplate. The cooker burner should be set to 10 - 11% maximum Smoke No. 2.

Replace the countersunk headed screw on completion.

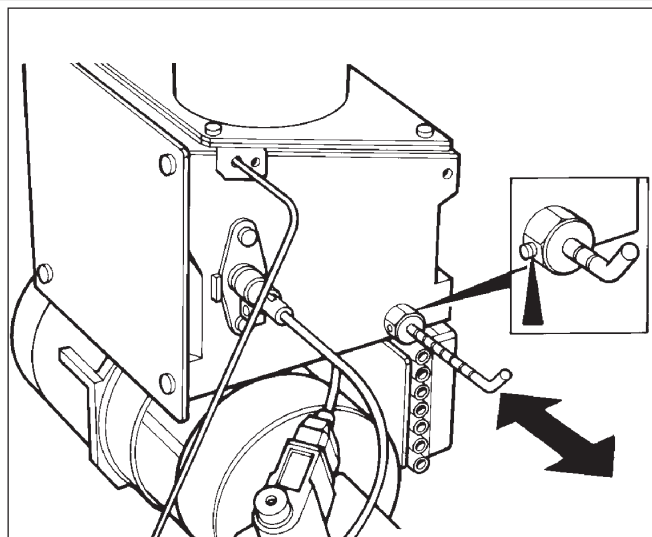


FIG. 28

DESN 514442

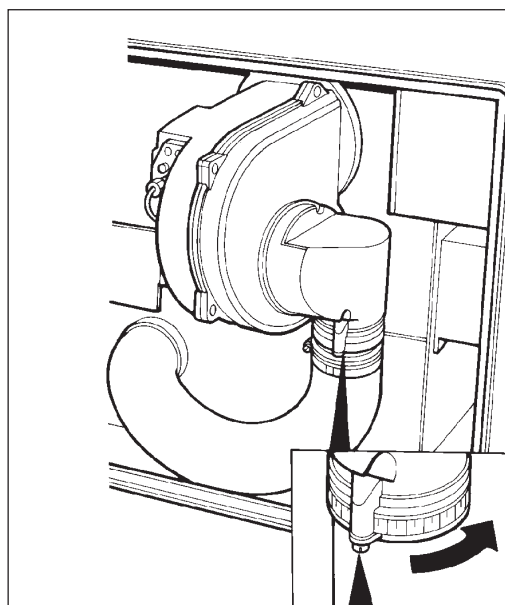


FIG. 29

DESN 514443

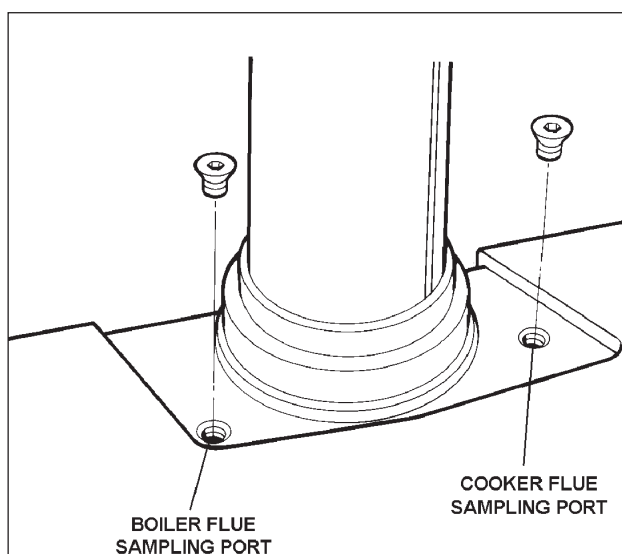


FIG. 30

DESN 514444

FAN MOTOR

Follow instructions in sections BURNER ACCESS, Steps 1 to 3 and BURNER REMOVAL, Steps 1 to 6.

COOKER BURNER AND BOILER BURNER - 880K ONLY - SEE FIG. 31

1. Remove 3-pin plug.
2. Remove solenoid plug.
3. Disconnect oil pipe.
4. Remove 4 screws and withdraw motor.
5. Remove grub screw, slide off fan. Re-assemble in reverse order.

NOTE: Ensure that gaskets and seals are in place and in good condition.

BOILER BURNER 8120 / 8150 ONLY (SEE FIG. 32)

1. Remove 3-pin plug.
2. Remove solenoid plug.
3. Disconnect oil pipe.
4. Remove 4 pozi drive screws, remove fan case inlet.
5. Undo grub screw, remove fan.
6. Remove 4 fixings, withdraw motor.
7. Re-assemble in reverse order.

NOTE: Ensure that gaskets and seals are in place and in good condition.

IGNITION ELECTRODES

Follow instructions in BURNER ACCESS, Steps 1 to 3 and BURNER NOZZLE REMOVAL, Steps 1 to 5.

SEE FIG. 33

1. Disconnect ignition leads.
2. Remove 2 socket head screws.
3. Remove head assembly complete.
4. Remove ignitor assembly by removing countersunk screw and clamp.
5. Fit new ignition electrode assembly, re-assemble in reverse order.
6. Check electrode gap and reset if necessary.

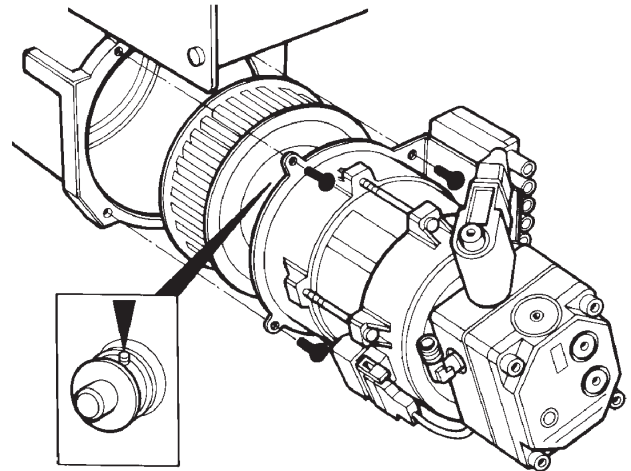


FIG. 31

DESN 514448

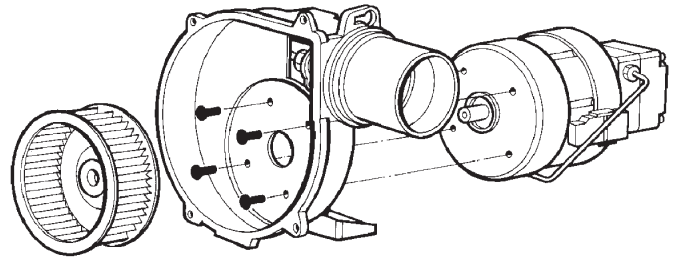


FIG. 32

DESN 514449

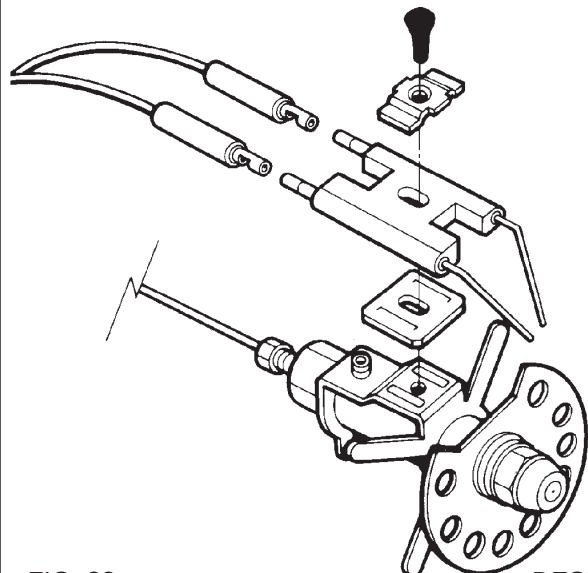


FIG. 33

DESN 514447

Replacement of parts (Burner)

IGNITOR

Follow instructions in sections BURNER ACCESS, Steps 1 to 3, BURNER REMOVAL Step 4.

COOKER BURNER ONLY (SEE FIG. 34)

1. Remove both HT leads from ignitor,
2. Remove mains plug from ignitor.
3. Remove earth screw.
4. Remove 2 ignitor securing screws.
5. Remove ignitor.
6. Fit new ignitor, re-assemble in reverse order.

BOILER BURNER - 880 ONLY (SEE FIG. 35)

1. Undo 2 access door fixings.
2. Remove both HT leads.
3. Remove mains plug.
4. Remove ignitor securing screws.
5. Remove ignitor.
6. Fit new ignitor, re-assemble in reverse order.

BOILER BURNER - 8120 / 8150 ONLY (SEE FIG. 36)

1. Undo 2 Philips head screws, slide out mounting bracket.
2. Remove both HT leads.
3. Remove mains plug.
4. Remove ignitor securing screws.
5. Remove ignitor.
6. Fit new ignitor, re-assemble in reverse order.

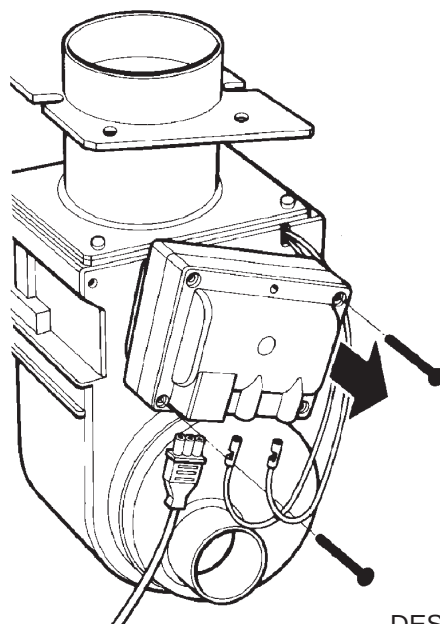


FIG. 34

DESN 514430

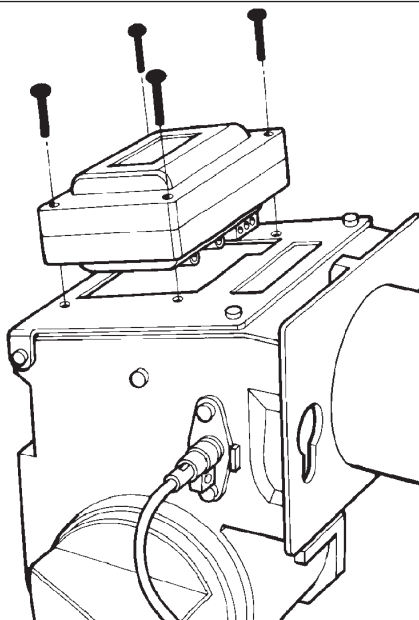


FIG. 35

DESN 514461

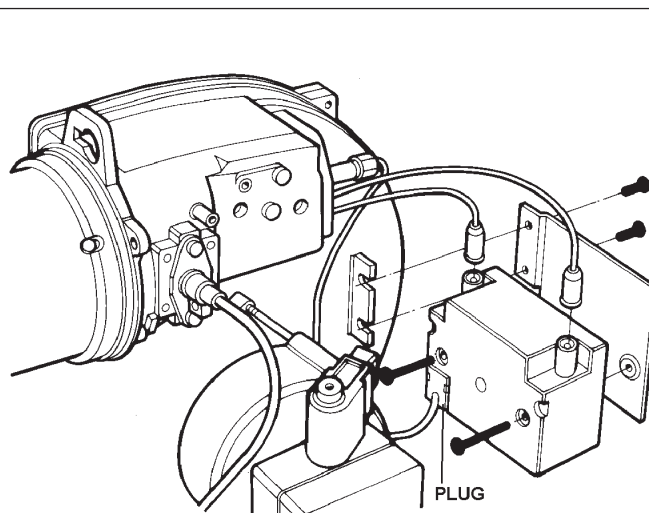


FIG. 36

DESN 514441

Replacement of parts (Burner)

SOLENOID COIL

SEE FIG. 37

Follow instructions in sections BURNER ACCESS, Steps 1 to 3, BURNER REMOVAL, Steps 1 to 5 .

1. Remove plug.
2. Remove solenoid securing nut and washer.
3. Remove solenoid coil.
4. Fit new solenoid coil, re-assemble in reverse order.

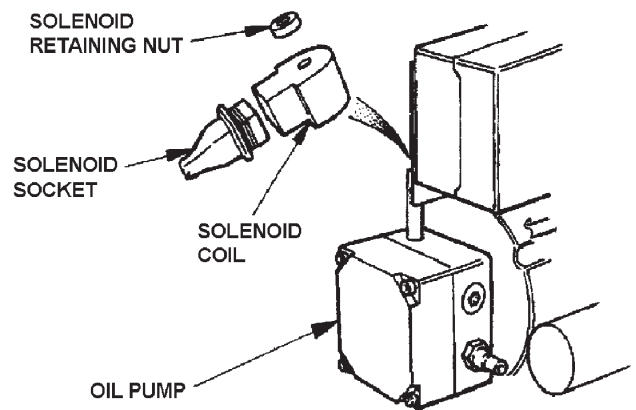


FIG. 37

DESN 514326

CONTROL BOX

SEE FIG. 38

Follow instructions in sections BURNER ACCESS, Steps 1 to 3, BURNER REMOVAL, Steps 1 to 2.

1. Remove 2 control box mounting screws.
2. Insert a flat bladed screwdriver in LH side of c.box as diagram.
3. Repeat as above for RH side.
4. Gently pull c. box away from base.
5. Fit new c. box, re-assemble in reverse order.

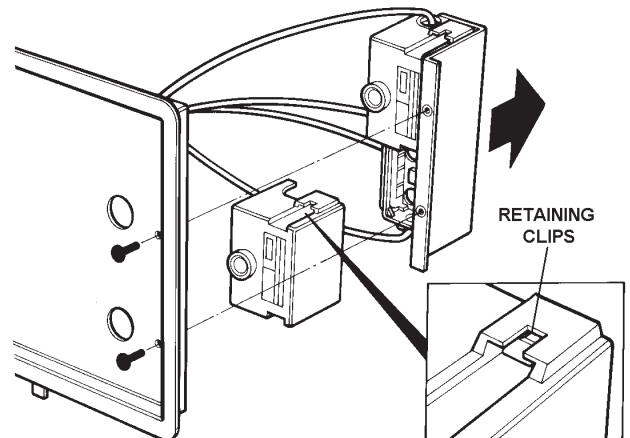


FIG. 38

DESN 514435

Replacement of parts (Burner)

PUMP ACCESS

SEE FIG. 39

Follow instructions in section BURNER ACCESS, Steps 1 to 3 and BURNER REMOVAL, Steps 1 to 5.

1. Isolate fuel supply.
2. Disconnect flexible hose. (This must be replaced every 2 years).
3. Remove solenoid plug.
4. Remove feed pipe.
5. Slacken three securing screws and remove pump.
6. Check drive, replace if worn or damaged.
7. Replace pump, reassemble in reverse order.

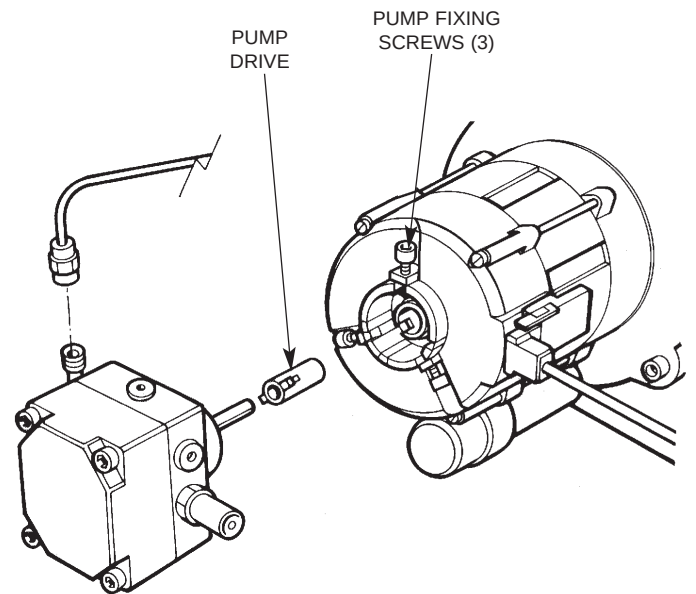


FIG. 39

DESN 511995

ELECTRICAL COMPONENT ACCESS

BEFORE REMOVING SERVICE ACCESS COVERS ENSURE THAT ALL ELECTRICAL ACCESS TO THE APPLIANCE HAVE BEEN SWITCHED OFF (SWITCH OFF AND REMOVE PLUG).

SEE FIG. 40

1. Remove the controls door and place in a safe position.
2. Remove the 4 panel fixing screws.
3. Tilt assembly forward.
4. Remove the four control panel fixing screws.
5. Tilt the chassis forward from the top and lift out. To fully access the rear of the control chassis, the thermostat capillaries should be removed from their pockets.

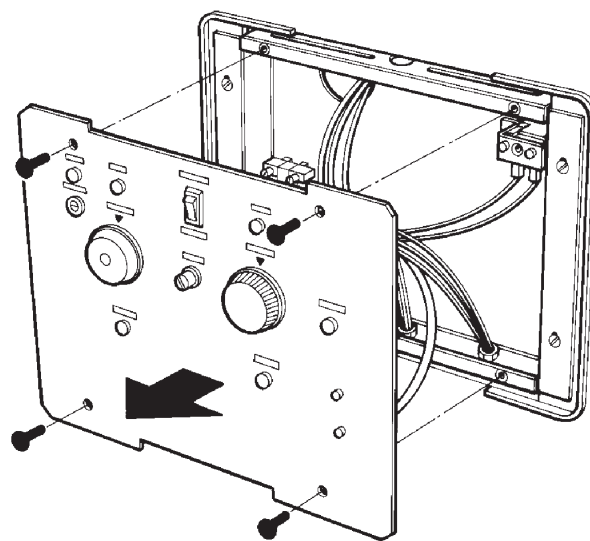


FIG. 40

DESN 514455

Replacement of parts (Electrical controls)

TO FIT NEW BOILER CONTROL THERMOSTAT

SEE FIG. 41

Follow instructions in section ELECTRICAL COMPONENT ACCESS, Steps 1 to 6.

1. Undo the two screws on the front of the chassis which hold the thermostat in place.
2. Remove the two push on connectors from back of thermostat.
3. Replace thermostat. Take care to push thermostat phial correctly into the pocket provided. The thermostat should be mounted with tag P at the right hand side.
4. Re-connect push on connector wires.

To complete follow instructions in section RE-ASSEMBLE, Steps 1 to 6.

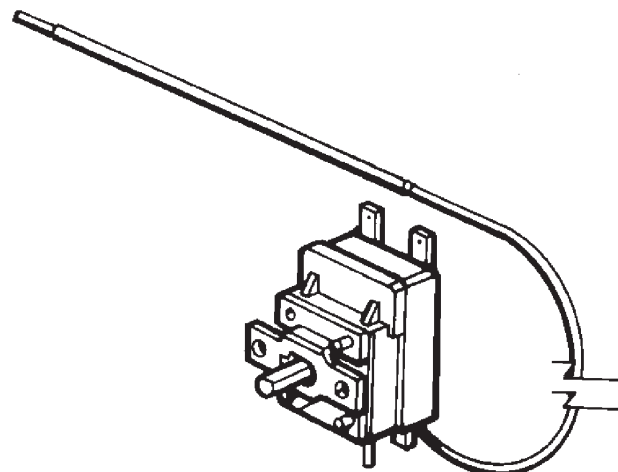


FIG. 41

DESN 514462

TO FIT NEW BOILER PUMP OVERRUN THERMOSTAT

SEE FIG. 41

Follow instructions in section ELECTRICAL COMPONENT ACCESS, Steps 1 to 6.

1. Undo the two screws on the front of the chassis which hold the thermostat in place.
2. Remove the three push on connectors from back of thermostat.
3. Replace thermostat. The thermostat should be mounted with tag P at the left hand side. Take care to push on thermostat phial correctly into the pocket provided.
4. Re-connect push on connector wires.

To complete follow instructions in section RE-ASSEMBLE, Steps 1 to 6.

TO FIT NEW COOKER SAFETY OVERHEAT THERMOSTAT

SEE FIG. 42

Follow instructions in section ELECTRICAL COMPONENT ACCESS, Steps 1 to 6.

1. Undo 2 screws on the front of the chassis which holds the thermostat in place.
2. Remove 2 push on connectors from the back of the thermostat. Open oven door to access the thermostat phial which passes into the oven.
3. Replace thermostat, thermostat stat phial should be repositioned in the same position as removed.

To complete, follow instructions in section RE-ASSEMBLE.

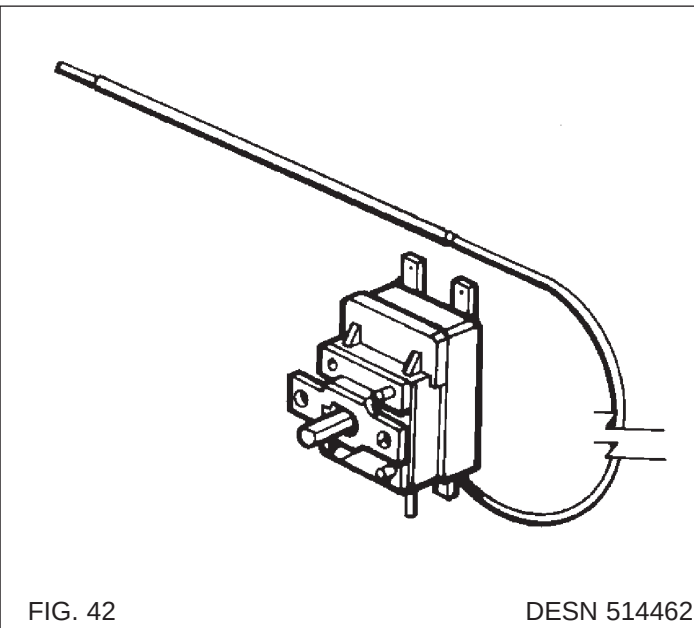


FIG. 42

DESN 514462

TO FIT NEW BOILER SAFETY OVERHEAT THERMOSTAT

SEE FIG. 43

Follow instructions in section ELECTRICAL COMPONENT ACCESS, Steps 1 to 6.

1. Undo the central hexagon nut on the front of the chassis which holds the thermostat in place.
2. Remove the push on connectors from back of thermostat.
3. Replace thermostat. Take care to push thermostat phial correctly into the pocket provided.
4. Re-connect push on connector wire as Fig. .

To complete follow the instructions in section RE-ASSEMBLE, Steps 1 to 6.

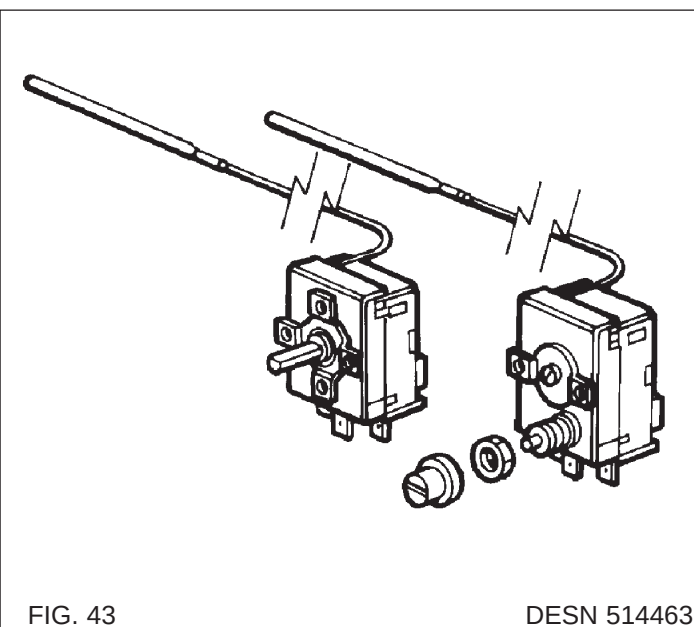


FIG. 43

DESN 514463

TO FIT NEW OVEN CONTROL THERMOSTAT

SEE FIG. 44

Follow instructions in section ELECTRICAL COMPONENT ACCESS, Steps 1 to 6.

1. Undo 2 screws on the front of the chassis which holds the thermostat in place.
2. Remove 2 push on connectors from back of thermostat.
3. Open roasting oven door to access the thermostat phial and capillary which pass into the oven.
4. Replace thermostat. Reposition the phial in same position as removed.
5. Re-connect push on connectors.

NOTE: Ensure phials do not make contact with oven sides.

To complete follow instructions in section RE-ASSEMBLE, Steps 1 to 6.

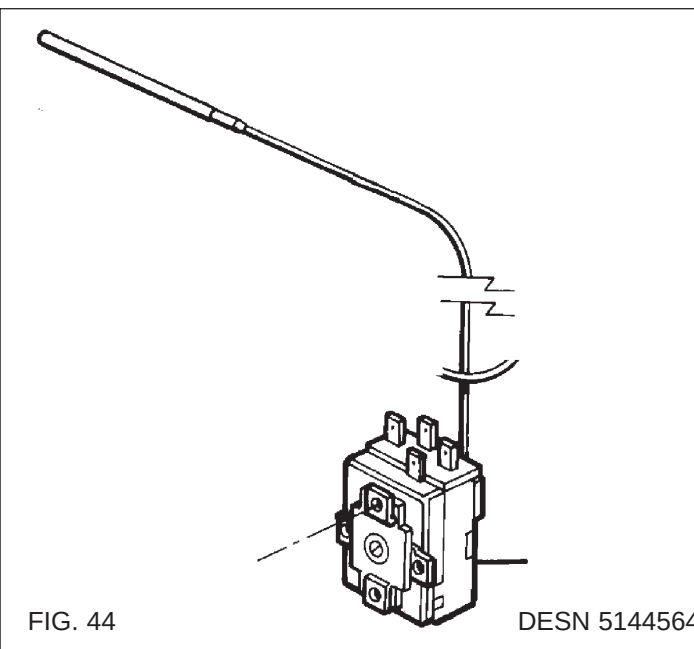


FIG. 44

DESN 5144564

Replacement of parts (Electrical controls)

TO FIT NEW SELECTOR SWITCH

SEE FIG. 45

Follow instructions in section ELECTRICAL COMPONENT ACCESS, Steps 1 to 4.

1. To remove switch from the cover panel press the two toggles at top and bottom of switch, push switch through panel.
2. Push replacement switch into aperture and click into place. The switch should be fitted with terminal 1 at the top.

To complete follow instructions in section RE-ASSEMBLE, Steps 3 to 6.

RE-ASSEMBLE

1. Locate thermostat phials into boiler pocket.
2. Refix the panel in position and secure with the 4 screws.
3. Replace the controls door.

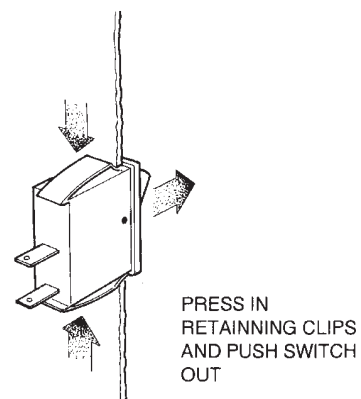


FIG. 45

DESN 510553 A

PUMP OVERRUN FACILITY

When the programmer switches off the BOILER channel then the water circulating pump will be switched off. If during the period shortly after this the residual heat in the appliance causes the water temperature in the boiler to rise above 65°C then the pump overrun thermostat will change over. This will switch on the circulating pump.

OVERHEAT SAFETY THERMOSTATS

BOILER

This thermostat is a safety cut-out device which is intended to operate if the other controls fail. This control will “lock-out” and switches everything off except for the programmer clock and the “Pump Overrun” facility.

This thermostat has to be manually reset once the temperature has cooled down.

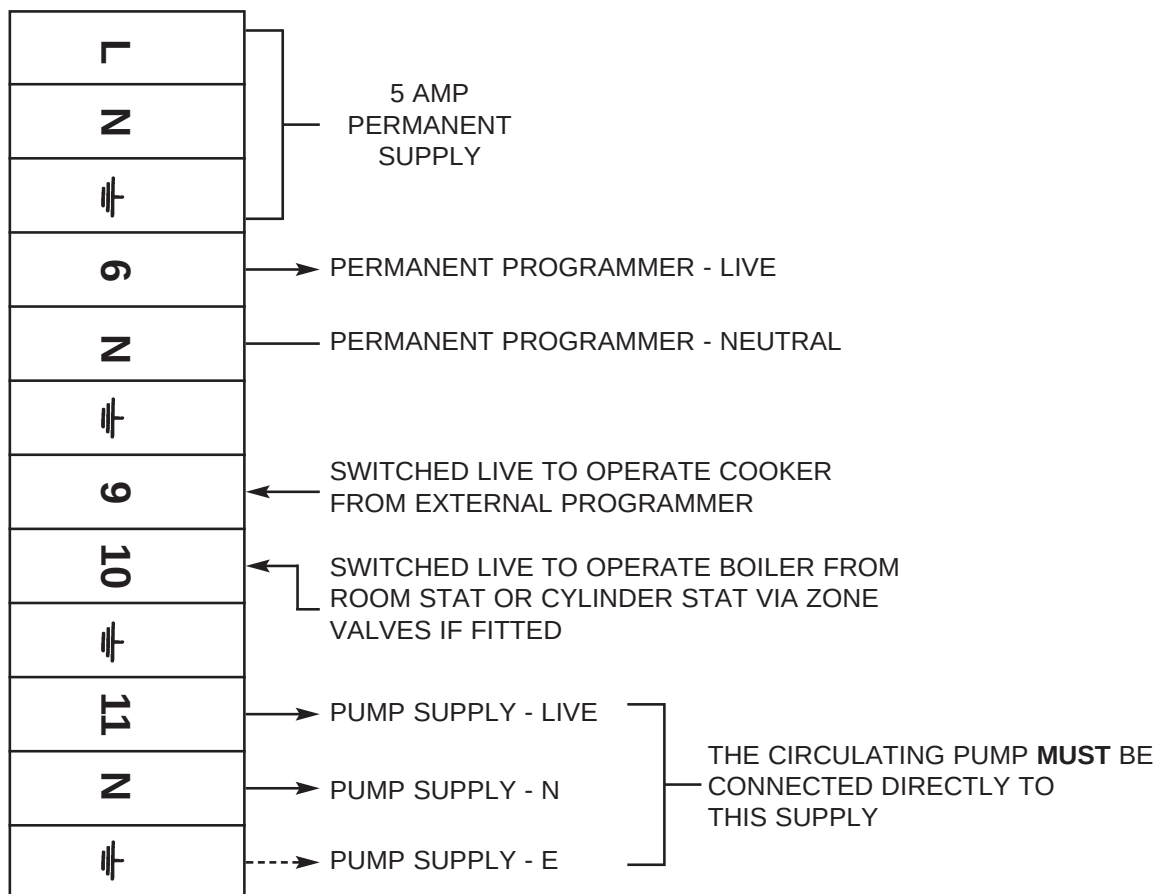
COOKER

This thermostat is a safety cut-out device which operates if the control thermostat fails.

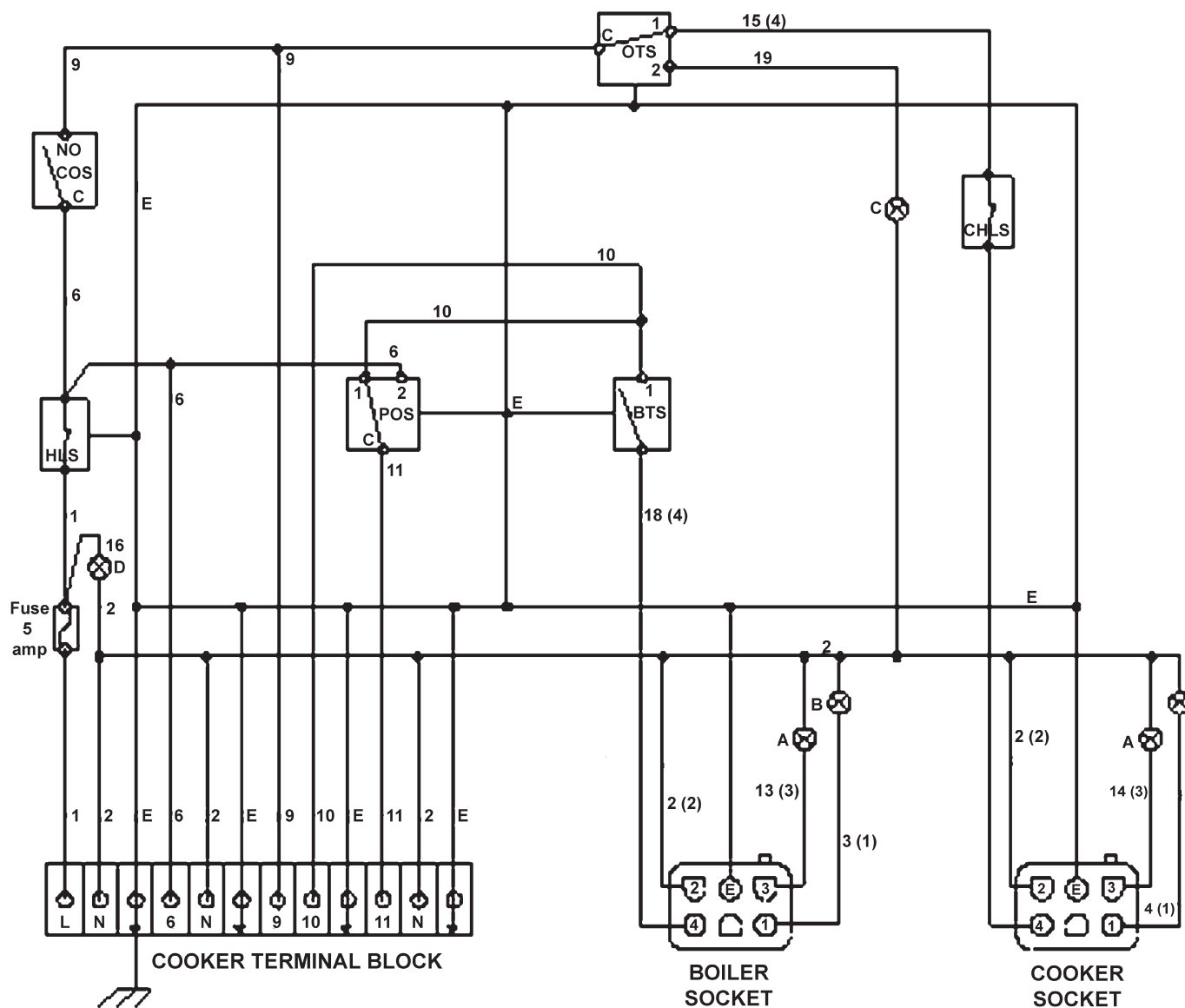
This thermostat automatically resets once the temperature has cooled down.

CONTROL CIRCUIT-EXTERNAL

TERMINAL STRIP CONNECTIONS



Appliance Control Panel Internal Wiring



A	Run Light
B	Lockout Light
C	Oven To Temp
D	Mains On

COS	COOKER OVERRIDE SWITCH
HLS	HIGH LIMIT THERMOSTAT
OTS	OVEN CONTROL THERMOSTAT
POS	PUMP OVERRUN STAT
BTS	BOILER CONTROL THERMOSTAT
CHLS	COOKER HIGH LIMIT STAT

FIG. 46

Fault Finding

Burner Control Wiring

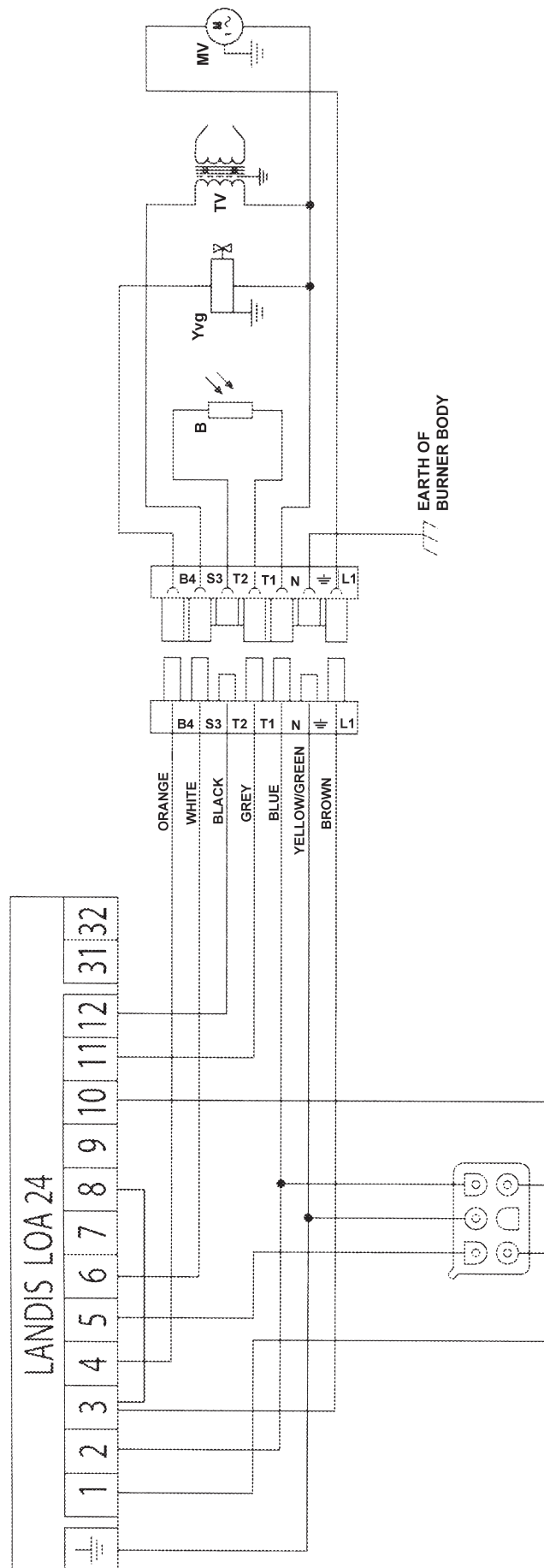


FIG. 47

Burner

Check that the burner has not gone to lockout.

Causes of lockout can be:-

- No ignition, ignition electrode incorrectly positioned or insulation cracked, spark generator faulty, check for 230V at spark generator.
- No oil supply.
- Poor combustion.
- Photo electric cell incorrectly positioned, cracked or needs cleaning.
- Live and Neutral connections reversed.
- Oil valves not properly closed in shutdown position.
- Faulty control box.
- Faulty fire valve.

General

For access to individual controls refer to section on Replacement Parts and for wiring continuity checks refer to schematic wiring layouts.

To check out the electrical wiring at the burner you will first have to have access to the burner chamber. Use the following procedure:-

1. Isolate the electrical power supply.
2. Open up the bottom burner access door. Remove door and put in a safe place.
3. Unscrew the 4 screws holding the inner panel in place and remove panel.
4. Unscrew the 3 screws holding the louvered plinth in place and remove plinth.

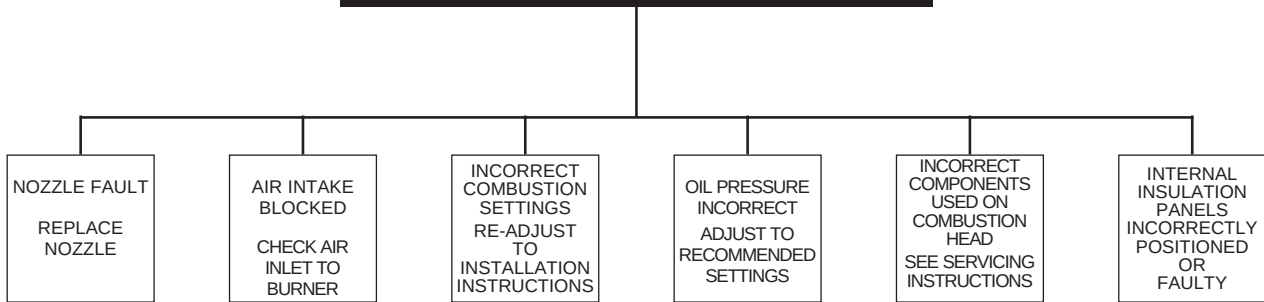
The external mains connections are made to a terminal block in the front right hand corner of the cooker under the oven. Re-connect the electrical supply and check that there is 230V power supply available across the mains input connections L & N on the terminal block. If not then check connecting leads, fuse and whether power is available at mains plug. If power is available across L & N check for continuity across cooker overheat thermostat and flue safety device.

Fault Finding

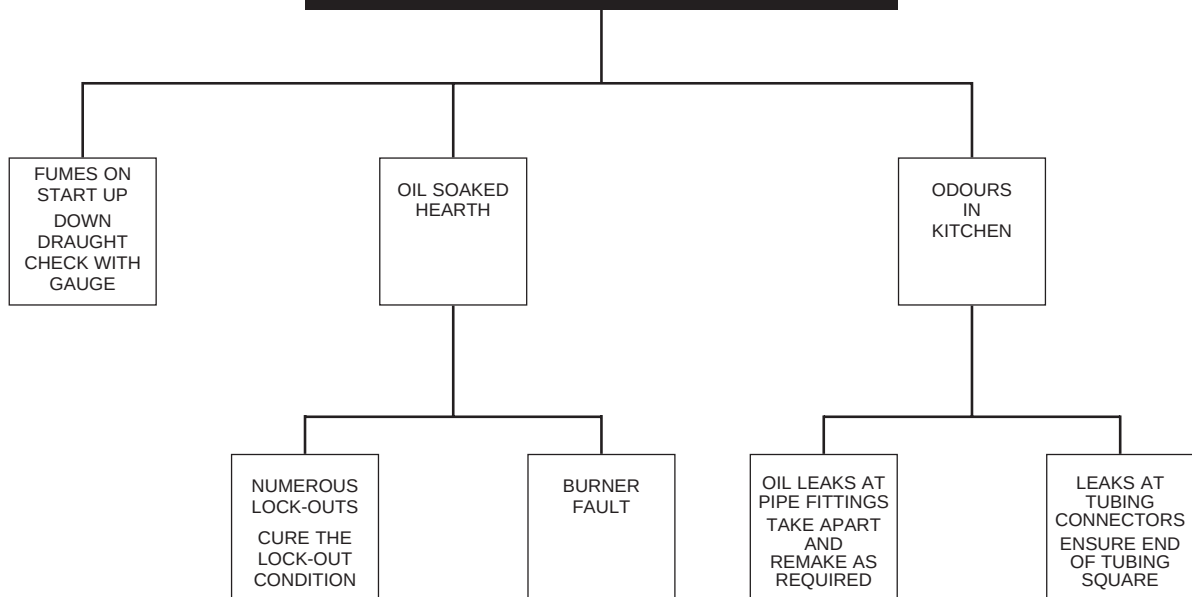
Burner Fault Finding

Burner does not start up	-	Mains switch not on.
	-	Blown fuse.
	-	Boiler thermostats not made.
	-	Fault in control box.
Burner pre-purges and stops	-	Fault in control box.
Burner does not ignite during cycle and stops	-	Fault in control box.
	-	Fault in photo-resistor.
Burner does not ignite	-	Dirty ignition electrodes.
	-	Fault at electrodes.
	-	Electrodes installed wrongly.
	-	Faulty ignition transformer.
	-	Blocked nozzle.
	-	Nozzle needs replacing.
	-	Oil pressure too low.
	-	Blocked oil filter.
	-	Excessive combustion air for nozzle capacity.
	-	Fault in control box.
Burner ignites and then stops	-	Faulty nozzle.
	-	Photo-resistor does not 'see' flame.
	-	Excessive combustion air for nozzle capacity.
	-	Fault in control box.
	-	Oil pressure too low.
	-	Blocked oil filter.

HIGH SMOKE NUMBERS



OIL SMELLS



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