Single stage operation oil burner

WARNING

NON-RETROFIT APPLICATIONS

If this burner is being installed in a packaged unit (ie. burner comes with a boiler or furnace), follow the installation and set-up instructions supplied with the heating unit, as settings may differ from those shown in this manual.

- ***The following pages contain information, descriptions and diagrams for the proper installation and wiring of the burner. Please read carefully before attempting final installation.***
- ***This manual is to remain with the final installation designation. It is the installer's responsibility to ensure that the burner installation and operation instructions mentioned in this manual are followed and operated within local code authority limits.***

RIELLO 40

CODE	MODEL	TYPE
3726512	**F20 WITH HYDRAULIC JACK**	**265T**

2902453 (2) - 01/2009

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PARTS LIST

Your Riello 40 F20 burner should include the following parts. Please check to make sure all parts are present before beginning the installation.

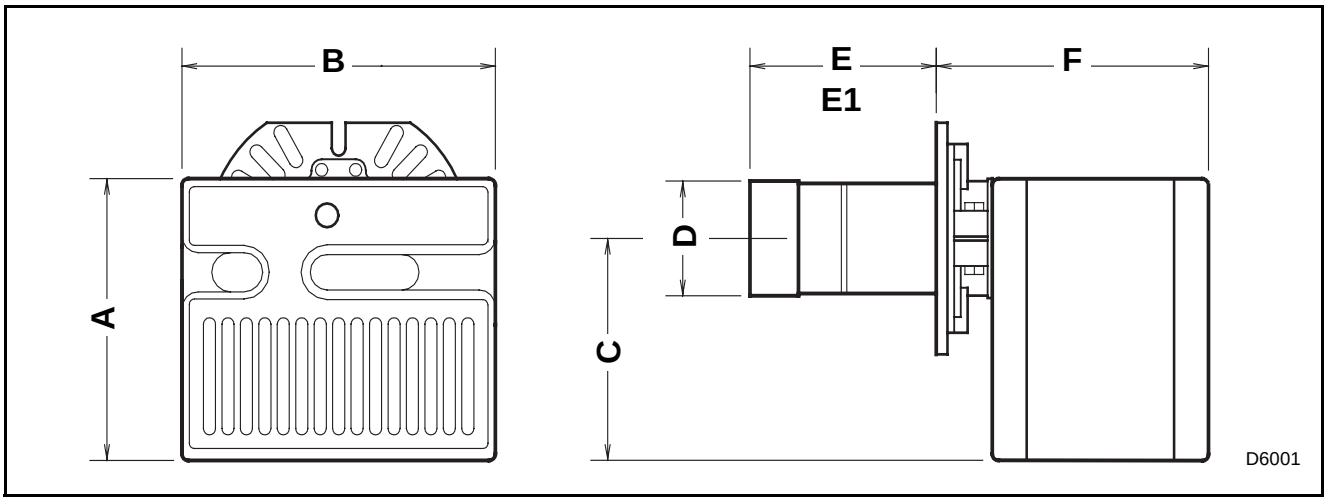
QTY.	DESCRIPTION (parts bag)
2 -	Mounting flange bolts (short)
2 -	Semi-flange bolts (long)
4 -	Nuts
2 -	Chrome nuts
1 -	Oil pump connector (supply)
1 -	Oil pump connector (return)
2 -	Female 1/4” NPT adapter
1 -	Male 3/8” NPT adapter

QTY.	DESCRIPTION (carton)
1 -	Burner chassis with cover
1 -	Universal Mounting Flange
2 -	Semi-flanges
1 -	Mounting gasket
1 -	Installation Manual

	* (separate carton)
1 -	Combustion head

*** OEM burners shipped with combustion head mounted.**

RIELLO 40 F20
TECHNICAL DATA



DIMENSIONS

MODEL F20	A	B	C	D	E	F
Inches	11 3/4	13 25/32	9 1/16	4 11/16	5	11 27/32
mm	298	350	230	119	127	301

E1: 10 inch long (254 mm) tubes also available.

SPECIFICATIONS

FUEL: No. 2 Fuel Oil

FIRING RATE: 3.50 to 6.40 GPH 11.3 to 20.7 kg/h

EFFECTIVE OUTPUT: 490,000 to 896,000 BTU/h 143.5 to 262.5 kW
123,480 to 225,790 kcal/h

VOLTAGE (Single Phase): 120V 60 Hz (+10% –15%)

ABSORBED ELECTRICAL POWER: 465 Watts

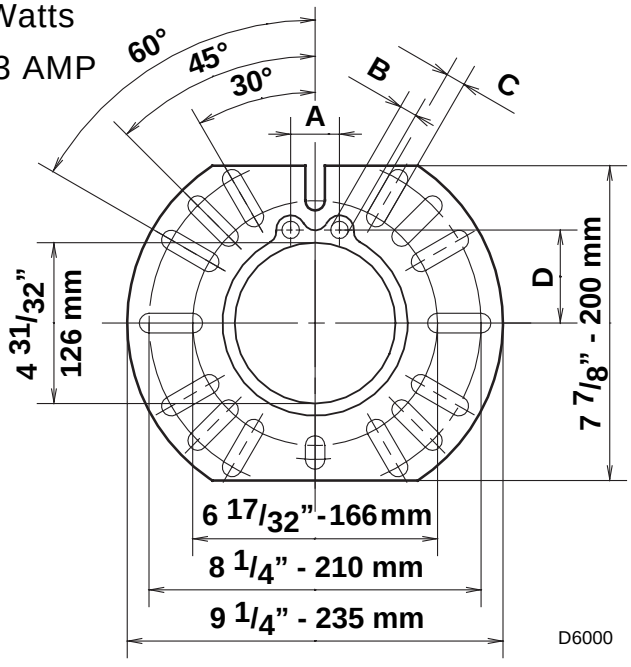
MOTOR (rated): 3250 rpm Run Current 4.3 AMP

CAPACITOR: 16 Microfarads 260V

PUMP PRESSURE: 100 to 200 PSI

PRIMARY CONTROL: RIELLO 530 SE/C

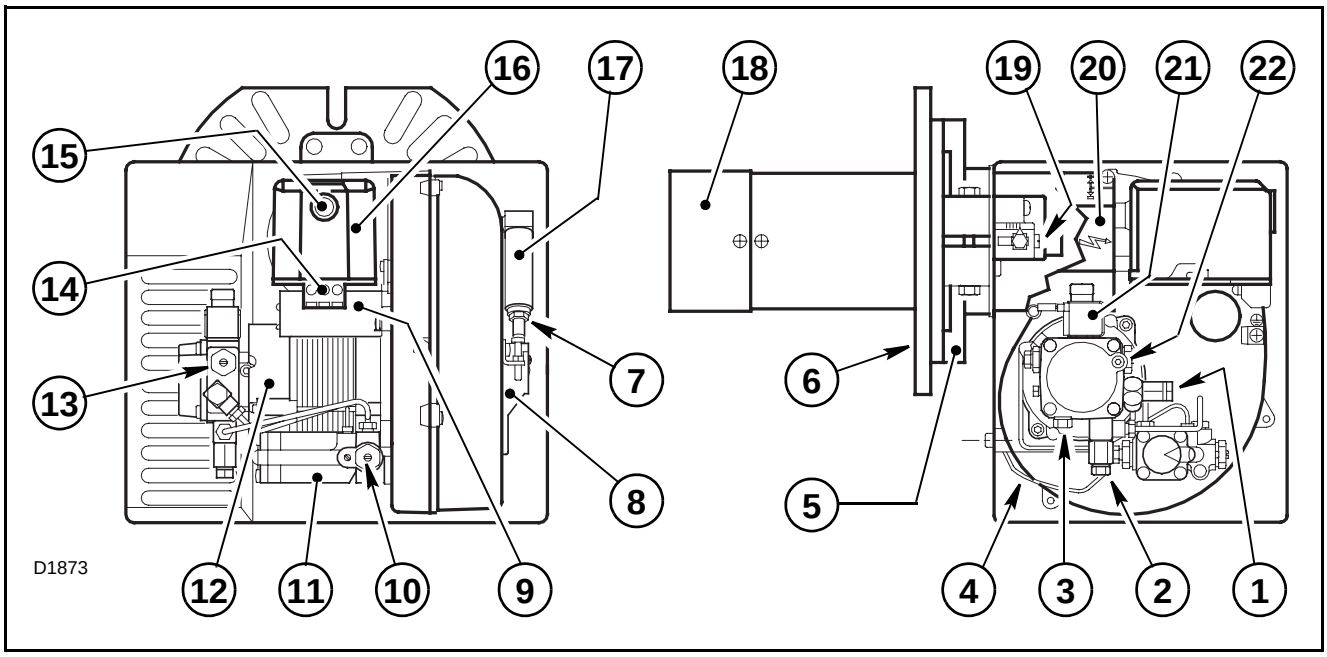
IGNITION TRANSFORMER: 8 kV 16 mA



MOUNTING FLANGE DIMENSIONS

MODEL F20	A	B	C	D
Inches	1 1/2	1/4	7/16	2 7/8
mm	38	6	11	73

OIL BURNER COMPONENTS IDENTIFICATION
RIELLO 40 SERIES

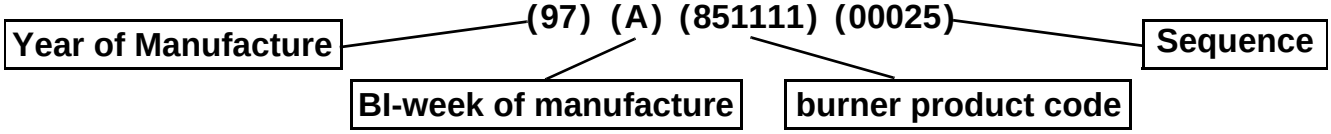


F20 BURNER COMPONENTS

1. Pressure gauge connection port
2. Return fuel line port
3. Inlet fuel line port
4. Capillary tube
5. Adjustable collar
6. Mounting flange with gasket
7. Air adjustment fixing screws
8. Hydraulic air shutter
9. Capacitor
10. Fuel pressure adjustment screw Low fire
11. Hydraulic delay valve Low fire start
12. Motor
13. Pump pressure regulator adjustment screw
14. Primary control sub-base
15. Lockout indicator lamp and Reset button
16. Primary control
17. Hydraulic jack
18. End cone
19. Turbulator adjustment screw
20. Air tube cover
21. Coil
22. Vacuum gauge connection port

SERIAL NUMBER IDENTIFICATION

The Riello 15 character serial number, example, 97 A 8511111 00025, is identified as follows: 97 = last two digits of the year of manufacture; A = BI-week of manufacture; 8511111 = burner product code; 00025 = increment of 1 for each burner produced - specific to product code - reset to zero each January 1st.



INITIAL SET-UP

A) Remove burner and air tube from cartons. Check parts list (inside cover) to ensure all parts are present.

B) Remove burner cover by loosening the three screws securing it. Remove control box and air tube cover (see page 7).

C) Remove drawer assembly from air tube, insert nozzle and set turbulator adjustment for specific input required (see pages 7 & 8), then set aside.

D) Mount air tube to burner chassis.

ASSEMBLY OF AIR TUBE TO BURNER CHASSIS

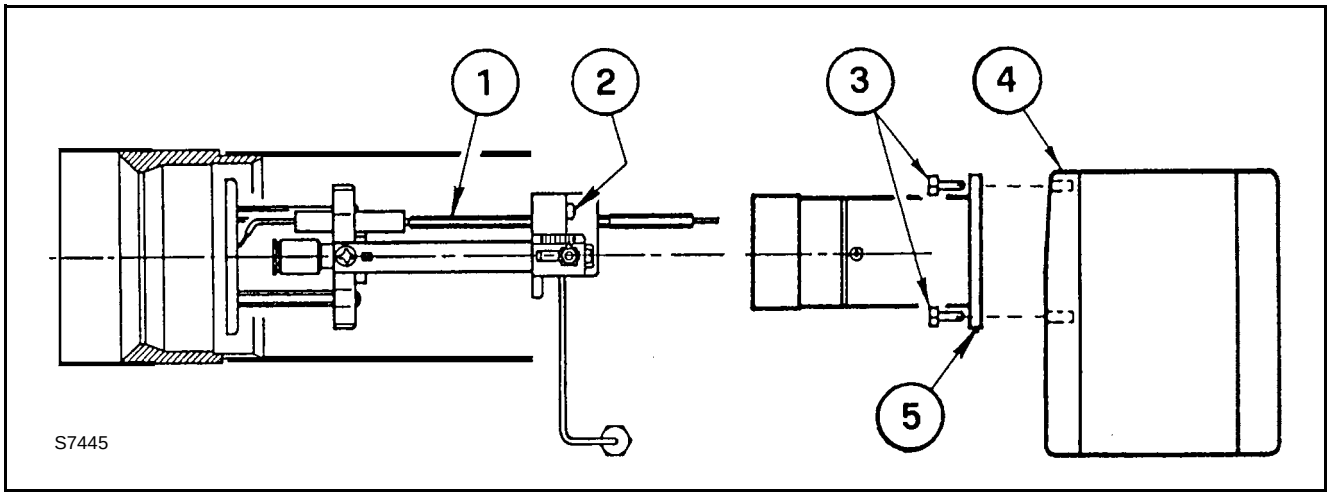
The air tube and drawer assembly are shipped in a carton separate from the burner chassis. Choose the proper air tube length to obtain the tube insertion for the specific installation.

A) Remove the AIR TUBE and BURNER CHASSIS from their respective cartons.

B) Remove the DRAWER ASSEMBLY (1) from inside the AIR TUBE by loosening the screw (2). Carefully pull the DRAWER ASSEMBLY out of the AIR TUBE, install the required nozzle (see page 7) and set aside.

C) Align the two holes on the AIR TUBE HOLDING PLATE (5) with the two holes left open on the BURNER CHASSIS FRONT PLATE (4) with the BOLTS (3) removed. Replace the BOLTS and finger tighten only. Re-install DRAWER ASSEMBLY into AIR TUBE. Tighten SCREW (2) securely (see page 7).

D) Tighten the two bolts (3) securely.



MOUNTING THE BURNER TO THE BOILER OR FURNACE

There are three possible methods to mount the burner, depending on the individual application. These are:

1) Universal flange bolted to Boiler/Furnace unit.

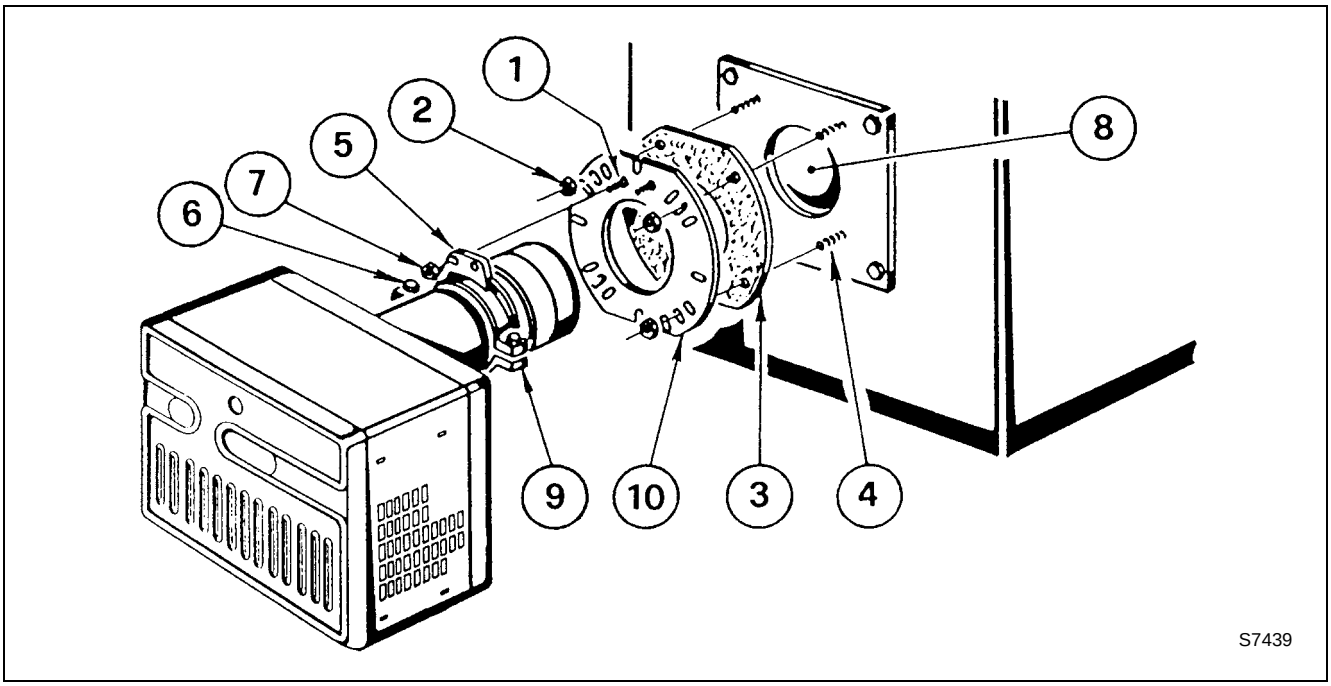
2) Semi-flange collar bolted to Boiler/Furnace unit.

3) Universal flange mounted to optional Pedestal mount, where flange-mounting direct to appliance is not possible. Pedestal kit must be ordered separately.

METHOD 1 - UNIVERSAL MOUNTING FLANGE

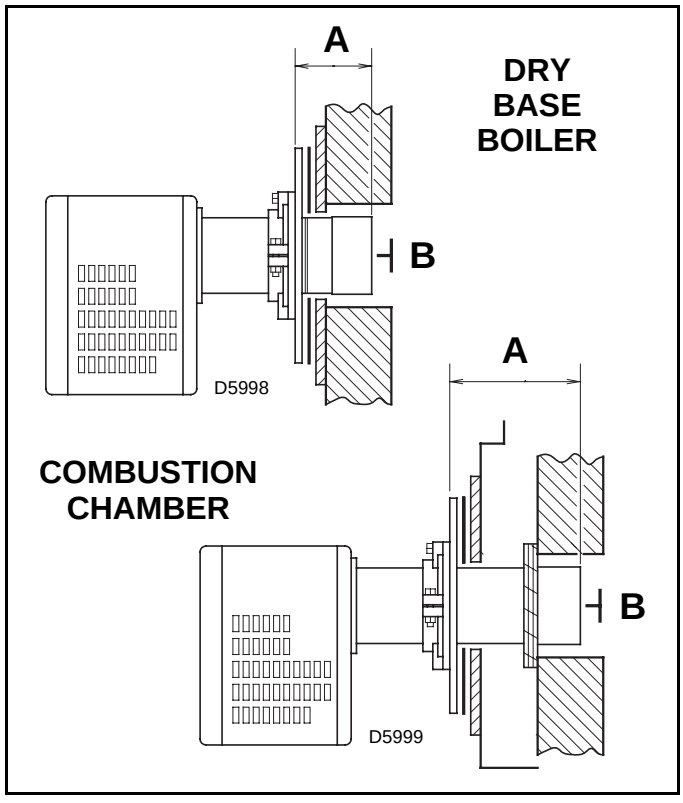
A) Insert the two BOLTS (1) into the UNIVERSAL MOUNTING FLANGE (10) from the flat side, ensuring the bolt heads are flush with the flat surface. Secure in place using two special CHROME NUTS (2) provided.

B) Position the MOUNTING GASKET (3) between the flat surface of the UNIVERSAL MOUNTING FLANGE (10) and the appliance. Line up the holes in the UNIVERSAL MOUNTING FLANGE with the STUDS (4) on the appliance mounting plate and securely bolt the UNIVERSAL MOUNTING FLANGE to the plate.



C) Secure the two semi-flanges of the ADJUSTABLE COLLAR (9) to the AIR TUBE using the two long BOLTS (6). Be sure that the ADJUSTABLE collar is properly positioned so the outside edge of the END CONE will be at least 1/4 inch (6.5 mm) back from the inside wall of the refractory of the combustion chamber (see dimension **B** at right). The measured length **(A)**, is to include MOUNTING GASKET and FLANGE, if used.

D) The burner may now be attached to the heating unit by inserting the AIR TUBE through the BURNER ACCESS HOLE (8) and into the appliance, making sure the BOLTS (1) line up with the two HOLES (5) in the ADJUSTABLE COLLAR. Secure the burner in place using two NUTS (7).



A visual verification of the air tube insertion into the combustion chamber of the heating unit is suggested. Dimension B should be at least 1/4” (see drawing).

NOTE: A suggested method for creating mounting bolt holes in the mounting gasket: Hold the gasket against the appliance mounting bolts using the mounting flange for proper positioning. Lightly tap the flange with a hammer to form the holes.

METHOD 2 - SEMI-FLANGE COLLAR

A) Follow item C from METHOD 1.

B) Align the air tube and attached adjustable collar so air tube is centered in the burner access hole of the boiler/furnace unit. Mark the center of the two holes in the ADJUSTABLE COLLAR on to the front plate of the heating unit. Then drill 1/4 inch (6.5 mm) holes through the front plate of the unit, using marks as a guide.

C) Install two short BOLTS (1) through the front plate of the heating unit from the inside, and secure on the outside using the two special CHROME NUTS (2).

D) Follow item D from METHOD 1.

METHOD 3 - PEDESTAL MOUNT

Secure the MOUNTING FLANGE to MOUNTING PEDESTAL using the hardware provided with the pedestal. Secure burner to MOUNTING FLANGE as in METHOD 1, items A, C and D.

NOTE: It is suggested that the pedestal be anchored in position on the floor by installing brackets over the pedestal tube and securing brackets to the floor.

WARNING: WHEN THE COMBUSTION CHAMBER IS LINED WITH A REFRACTORY MATERIAL, IT IS IMPERATIVE THAT THE END CONE NOT PROTRUDE INTO THE CHAMBER AREA, AS EXCESSIVE HEAT AT BURNER SHUT-DOWN WILL DAMAGE THE END CONE.

ELECTRICAL CONNECTIONS

It is advisable to leave the control box off the sub-base while completing the electrical connections to the burner.

1) Wire access hole
(Use BX electrical connector)

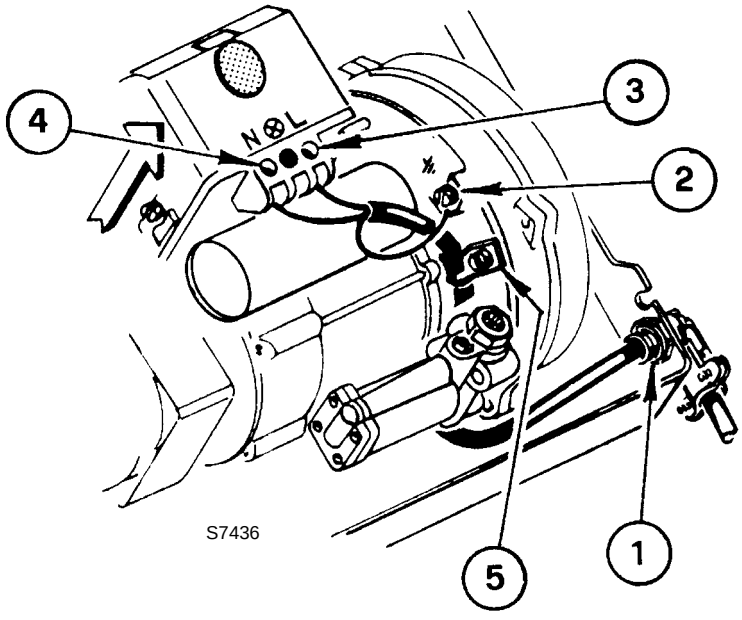
2) Earth ground conductor terminal
(GREEN WIRE)

3) Hot conductor terminal
(BLACK WIRE)

4) Neutral conductor terminal
(WHITE WIRE)

5) Strain relief clamp

WARNING: The hot (black) wire must be connected to the L terminal and the neutral (white) wire must be connected to the N terminal or the primary safety control will be damaged.
Do not connect either wire to the ⊗Terminal.



The burner may be controlled using either a DIRECT LINE VOLTAGE control circuit (120V AC 60 cycle) **OR** a LOW VOLTAGE control (24V AC 60 cycle) using a R8038A Honeywell switching relay or equivalent.

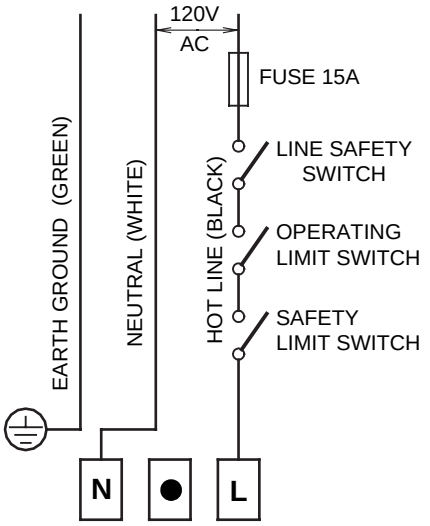
Using the appropriate diagram below, make electrical connections to burner. All wiring must be done in accordance with existing electrical codes, both national and local.

When all electrical connections have been made, the control box may be put back in place on the sub-base.

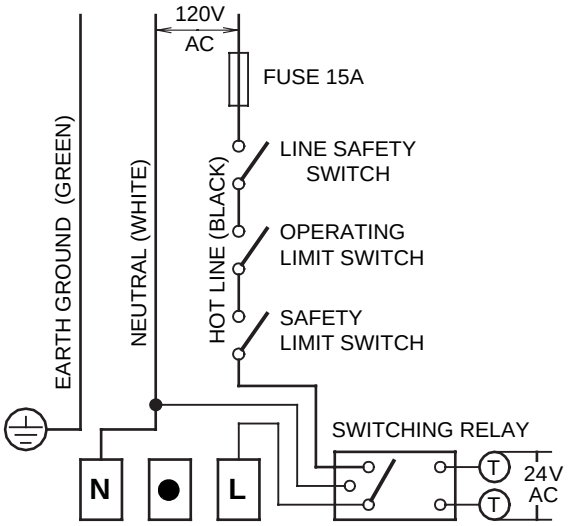
WARNING: DO NOT activate burner until proper oil line connections have been made, or failure of the pump shaft seal may occur.

APPLICATION FIELD WIRING

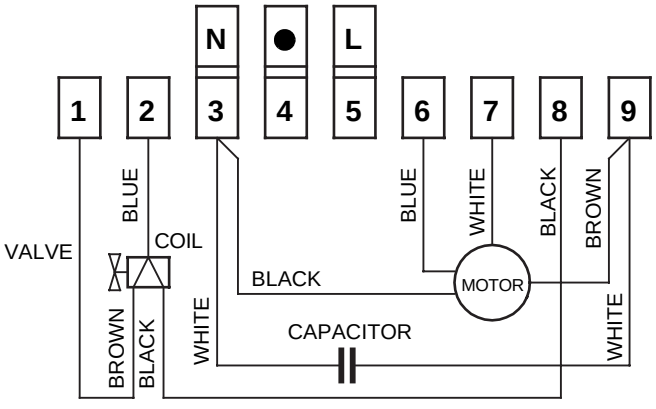
DIRECT LINE VOLTAGE



LOW VOLTAGE



FACTORY WIRED SUB-BASE

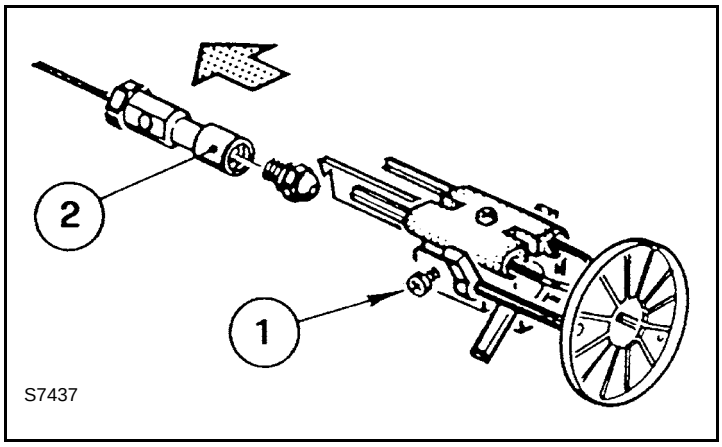


REMOTE SENSING OF SAFETY LOCKOUT: The SAFETY SWITCH in the 530SE CONTROL BOX is equipped with a contact allowing remote sensing of burner lockout. The electrical connection is made at terminal 4 (●) on the SUB-BASE. Should lockout occur the 530SE CONTROL BOX will supply a power source of 120Vac to the connection terminal. The maximum allowable current draw on this terminal (4) is 1 Amp.

WARNING: If a neutral or ground lead is attached to this terminal, the CONTROL BOX on the burner will be damaged should lockout occur.

NOZZLE PLACEMENT

A) Determine the proper firing rate for the boiler or furnace unit, considering the specific application, then use the Burner Set-up chart on page 12 to select the proper nozzle and pump pressure to obtain the required input from the burner.



B) Remove the NOZZLE ADAPTER (2) from the DRAWER ASSEMBLY by loosening the SCREW (1).

C) Insert the proper NOZZLE into the NOZZLE ADAPTER and tighten securely (Do not overtighten).

D) Replace adapter, with nozzle installed, into drawer assembly and secure with screw (1).

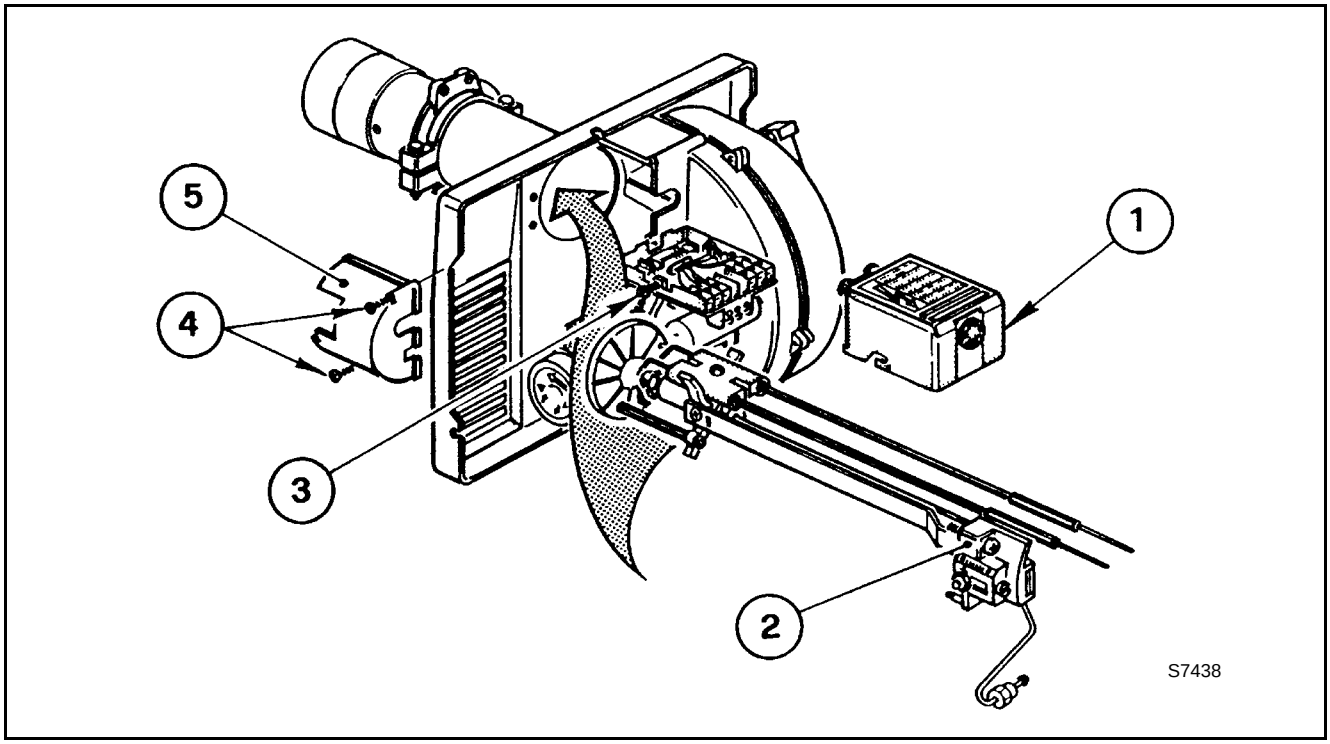
INSERTION/REMOVAL OF DRAWER ASSEMBLY

A) To remove drawer assembly, loosen SCREW (3), then unplug CONTROL BOX (1) by carefully pulling it back and then up.

B) Remove the AIR TUBE COVER PLATE (5) by loosening the two retaining SCREWS (4).

C) Loosen SCREW (2), then slide the complete drawer assembly out of the combustion head as shown.

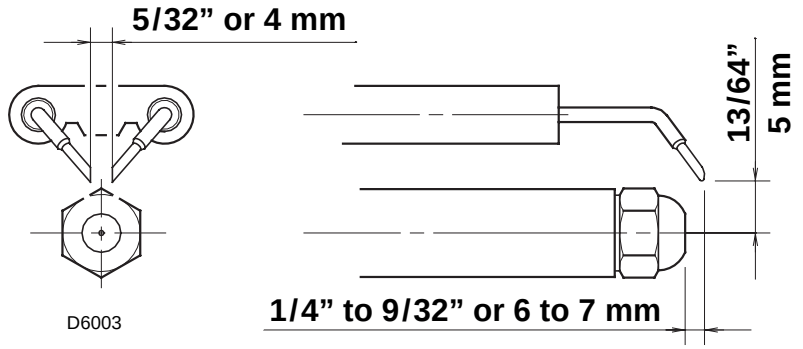
D) To insert drawer assembly, reverse the procedure in items A to C above, then attach fuel line to the pump.



ELECTRODE SETTING

IMPORTANT:

THESE DIMENSIONS MUST BE OBSERVED AND VERIFIED.

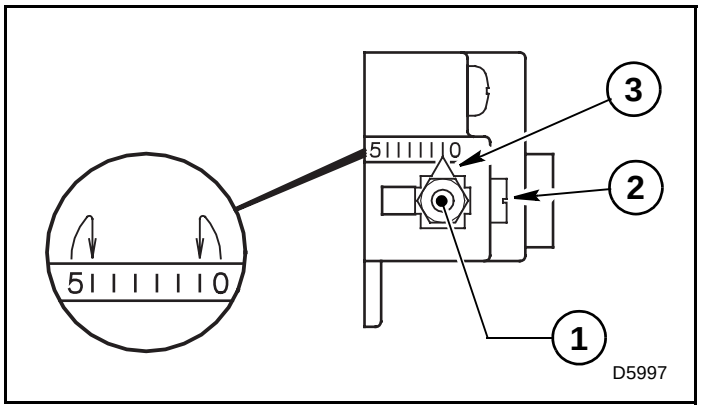


TURBULATOR SETTING

A) Loosen NUT (1), then turn SCREW (2) until the INDEX MARKER (3) is aligned with the correct index number as per the Burner Set-up chart, on page 12.

B) Retighten the RETAINING NUT (1).

NOTE: Zero and five are scale indicators only. From left to right, the first line is 5 and the last line 0.

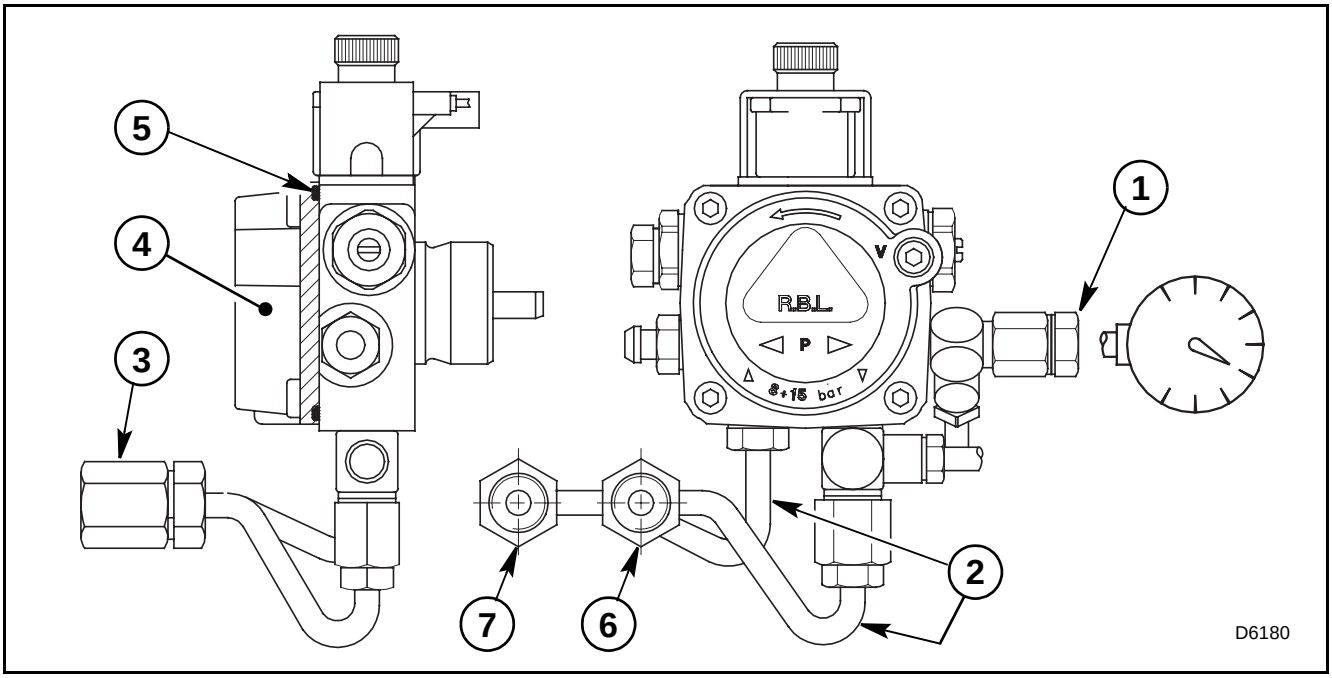


OIL LINE CONNECTIONS

WARNING: The burner is shipped from the factory with the pump set to operate on a TWO line system.

NOTE: THIS BURNER **MUST** BE INSTALLED WITH A TWO LINE SYSTEM TO ALLOW THE HYDRAULIC DELAY VALVE TO OPERATE.

NOTE: Pump pressure **must** be set at time of burner start-up. A pressure gauge is attached to the PRESSURE PORT (1) for pressure readings.

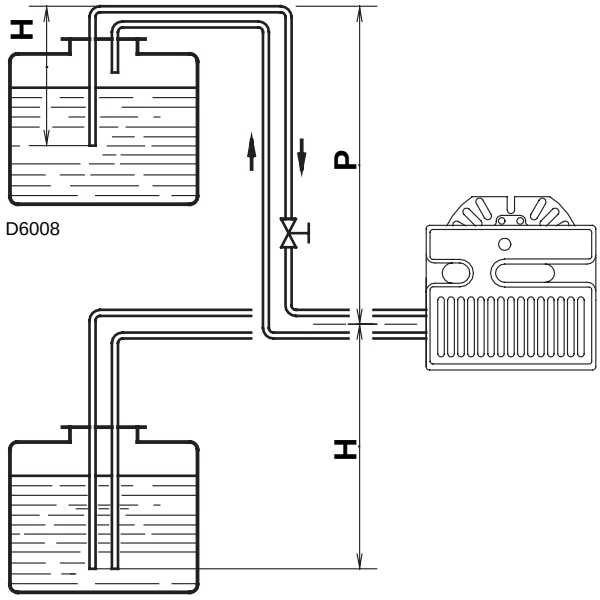


Two PIPE CONNECTORS (2) are supplied with the burner for connection to either a single or a two-pipe system. Also supplied are two adapters (3), two female 1/4" NPT, to adapt oil lines to burner pipe connectors. All pump port threads are **British Parallel thread design**. Direct connection of NPT threads to the pump will damage the pump body. Riello manometers and vacuum gauges do **not** require any adapters, and can be safely connected directly to pump ports. An NPT (metric) adapter **must** be used when connecting other gauge models.

NOTE: If the **pump cover (4)** is removed for any reason, be sure the O-ring (5), is properly seated in the pump cover (4) before re-attaching the pump cover to the pump housing.

TWO LINE (LIFT SYSTEM)

A) The burner is shipped with the pump set to operate on a two line system. Suction and return lines (6 & 7 in drawing on page 8) should be the same diameter and both should extend to the same depth inside the fuel tank. Be sure there are no air leaks or blockages in the piping system. Any obstructions in the return line will cause failure of the pump shaft seal. Do not exceed the pipe lengths indicated in the table.



2 LINE (LIFT) SYSTEM - PIPE LENGTHS					
H		3/8" OD		1/2" OD	
FT	M	FT	M	FT	M
0.0	0.0	115	35	330	100
1.5	0.5	100	30	330	100
3.0	1.0	80	25	330	100
5.0	1.5	65	20	295	90
6.5	2.0	50	15	230	70
9.5	3.0	25	8	100	30
11	3.5	20	6	65	20

NOTE: Do not exceed pipe lengths indicated in chart.

B) Attach the two PIPE CONNECTORS (2) to the pump SUCTION and pump RETURN PORTS (6 and 7). Attach the required piping to these two pipe connectors using the NPT/METRIC ADAPTERS that are supplied with the burner.

WARNING: Pipe dope or Teflon tape are NOT to be used on any direct oil connection to the fuel pump.

WARNING: The height "P" in Pipe Length chart above should not exceed 13 feet (4 m).

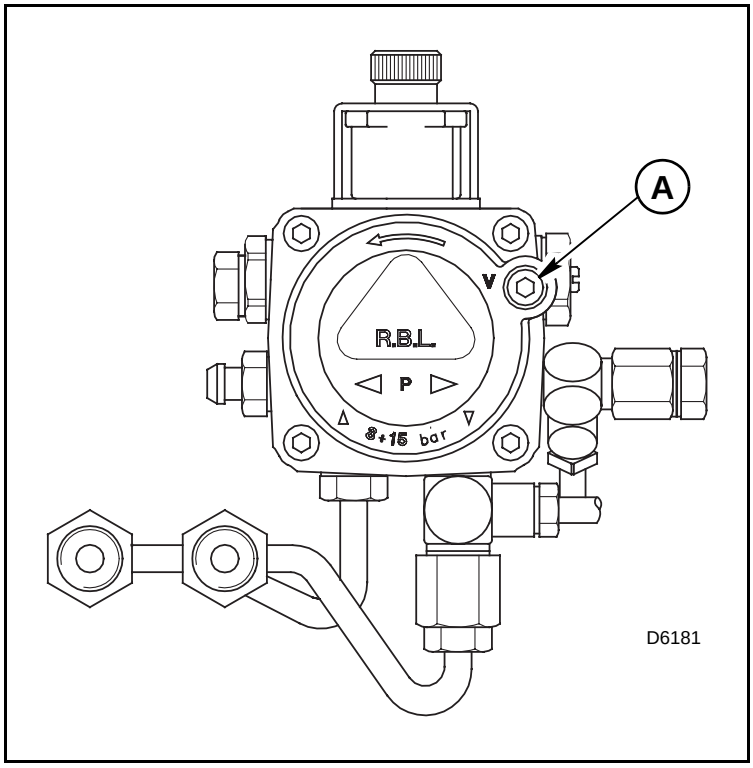
WARNING: The vacuum should not exceed 11.44 inches of mercury.

IMPORTANT: An external, appropriately listed and certified oil filter must be placed in the fuel line between the fuel tank and the burner pump.

PUMP PURGE

TWO LINE (GRAVITY OR LIFT SYSTEM)

Turn off the main power source to the burner and remove the air tube cover. Shine a light source on the photo cell on the control box (now visible where the air tube cover was removed), return power to the burner and activate the burner.
With the light source in place, the burner will operate in prepurge only.
When the pump is sufficiently purged, the hydraulic air shutter will open.
Once the burner is purged, turn off the power source and replace the air tube cover. Return power to the burner. The burner is now ready to operate.



NOTE: To protect the pump gears, it is advisable to lubricate the pump prior to purging a lift system. Apply oil through the VACUUM PORT (A).

ATTENTION: It is important that the fuel line be completely sealed and free from air leaks or any internal blockages.

WARNING! WHEN THE BYPASS PLUG IS INSTALLED, A TWO PIPE SYSTEM MUST BE USED OR FAILURE OF THE PUMP SHAFT SEAL WILL OCCUR.

AIR SHUTTER SETTING

LOW FIRE SETTING

A) Loosen PRESSURE RELEASING SCREW (1). (One turn is sufficient). This permits the fuel pressure to bleed off to the pump return port and the burner to operate continuously at the low fire rate.

B) Loosen RETAINING NUT (2).

C) Turn the ADJUSTING SCREW (3) until the top of the air shutter (9) is correctly positioned according to the Burner Set-up Chart, column 5, on page 12.

D) Use instruments to establish the proper settings for maximum CO_2 and a smoke reading of zero.

E) Hold ADJUSTING SCREW (3) in position and secure by tightening RETAINING NUT (2).

F) Retighten PRESSURE RELEASE SCREW (1).

Note: The low fire pressure regulator is pre-set at the factory to 100 PSI (7 bar). To vary or regulate this pressure it is necessary to attach a pressure gauge to the PRESSURE PORT (6). Loosen the PRESSURE RELEASE SCREW (1) as in step A above. Regulate the pressure by turning the PRESSURE REGULATING SCREW (5).
The corresponding pressure can be read on the pressure gauge attached to the PUMP PRESSURE PORT (6).

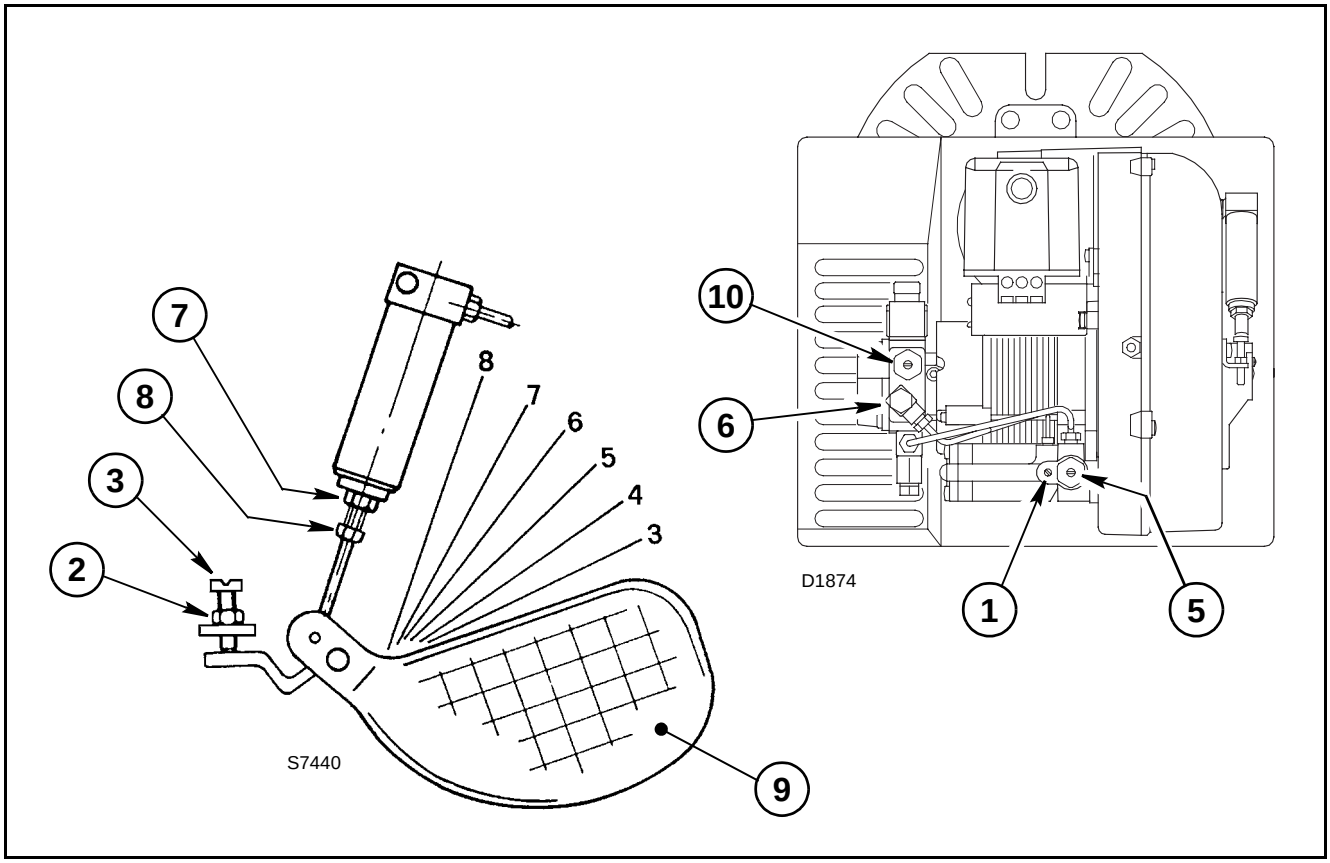
MAIN FLAME SETTING

A) Be sure that the burner is operating at high fire.

B) Set the pump pressure by attaching a pressure gauge to the Pressure port (6) and adjust the pressure by turning the pressure regulator adjustment screw (10).
Loosen the RETAINING NUT (7), and turn the BOLT (8) in a counterclockwise direction until about 3/4 of an inch of thread is visible. Using the setting taken from the Burner Set-up Chart, column 5, position the air shutter (9) so that the top of the shutter is aligned with the proper index line indicated on the air intake side of the burner housing. Holding the shutter in this position, turn ADJUSTING BOLT (8) in a clockwise direction until a resistance is met.

C) The final position of the air adjustment plate will vary on each installation. Use instruments to establish the proper settings for maximum CO_2 and a smoke reading of zero.

NOTE: Variations in flue gas, smoke, CO_2 and temperature readings may be experienced when the burner cover is put in place. Therefore, the burner cover **must** be in place when making the final combustion instrument readings, to ensure proper test results.



BURNER SET-UP CHART

1		2	3		4	5	
ACTUAL FIRING RATE ± 5%		NOZZLE SIZE	PUMP PRESSURE		TURBULA-TOR SETTING	AIR DAMPER SETTING	
GPH	kg/h	GPH	PSI	BAR		LOW FIRE	MAIN FLAME
3.50	11.3	2.50 x 45°/60°	190	13.0	0.0	2.3	2.8
4.00	12.9	3.00 x 45°/60°	178	12.0	1.0	2.5	3.2
4.65	15.0	3.50 x 45°/60°	178	12.0	2.0	2.8	3.7
5.30	17.1	4.00 x 45°/60°	178	12.0	3.0	3.2	4.5
6.00	19.4	4.50 x 45°/60°	178	12.0	4.0	3.5	5.0
6.40	20.7	5.00 x 45°/60°	165	11.4	5.0	3.8	6.0

NOZZLES: Monarch R-PLP, Delavan W-B, Danfoss S-B, Steinen SS-S, Hago P.

NOTE: A 45° degree nozzle is suggested, however, a 60° degree nozzle may be used in cases where the flame is unstable at light-off when operated at low ambient temperatures.

COMBUSTION CHAMBER

Follow the instructions furnished by the boiler/furnace manufacturer. Size retrofit application according to the appropriate installation codes (eg. CSA B139 or NFPA #31).

NON-RETROFIT APPLICATIONS

If this burner is being installed in a packaged unit (ie. burner comes with a boiler or furnace), follow the installation and set-up instructions supplied with the heating unit, as settings will differ from those shown in this manual.

FOR CANADA
PRECAUTIONS

AIR FOR COMBUSTION

Do not install burner in room with insufficient air for combustion. Be sure there is an adequate air supply for combustion if the boiler/furnace room is enclosed. It may be necessary to create a window to permit sufficient air to enter the boiler/furnace room. The installer must follow local ordinances in this regard. Should local ordinances be lacking, it is suggested that the installer follow CSA standard B139.

CHIMNEY

Be sure chimney is sufficient to handle the exhaust gases. It is recommended that only the burner be connected to the chimney. Be sure that it is clean and clear of obstructions.

OIL FILTER

An external oil filter is REQUIRED, even though there is an internal strainer in the pump. The filter should be replaced at least once a year, and the filter container should be thoroughly cleaned prior to installing a new filter cartridge.

DRAFT

Follow the instructions furnished with the heating appliance.

The pressure in the combustion area should be kept as close to zero as possible. The burner will operate with a slight draft or pressure in the chamber.

ELECTRICAL CONNECTIONS

All electrical connections should be done in accordance with the C.E.C. Part I, and a local codes. The system should be grounded.

CONTROL BURNER OPERATION

Check out the burner and explain its operation to the homeowner. Be sure to leave the Owner’s Instruction sheet with the homeowner.

FIRE EXTINGUISHER

If required by local codes, install an approved fire extinguisher.

FOR USA
PRECAUTIONS

AIR FOR COMBUSTION

Do not install burner in room with insufficient air for combustion. Be sure there is an adequate air supply for combustion if the boiler/furnace room is enclosed. An opening of at least twice the area of the flue should be available, or one square foot of area for every gallon of firing rate. It is important to have one opening near the floor, and one near the ceiling. It may be necessary to create a window to permit a sufficient air to enter the boiler/furnace room. The installer must follow local ordinances in this regard. Should local ordinances be lacking, it is suggested that the installer follow NFPA manual # 31.

CHIMNEY

Be sure chimney is sufficient to handle the exhaust gases. It is recommended that only the burner be connected to the chimney. Be sure that it is clean and clear of obstructions.

OIL FILTER

An external oil filter is REQUIRED, even though there is an internal strainer in the pump. The filter should be replaced at least once a year, and the filter container should be throughly cleaned prior to installing a new filter cartridge.

DRAFT

Follow the instructions furnished with the heating appliance.
The pressure in the combustion area should be kept as close to zero as possible.
The burner will operate with a slight draft or pressure in the chamber.

ELECTRICAL CONNECTIONS

All electrical connections should be done in accordance with the National Electrical Code, and all local ordinances. In most localities, a number 14 wire should be used inside a metal conduit. The system should be grounded. A service switch should be placed close to the burner on a fireproof wall in an easily accessible location.

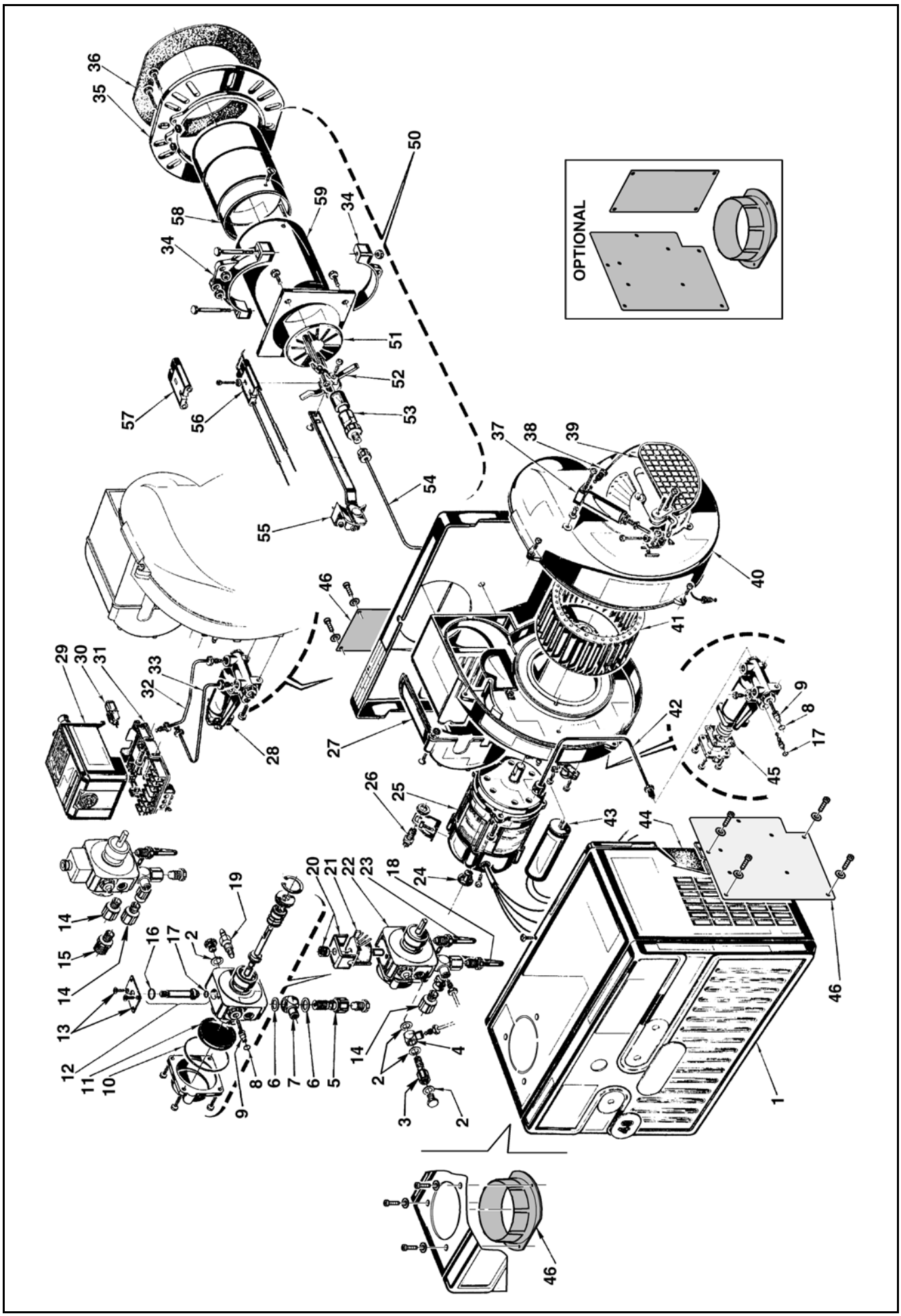
CONTROL BURNER OPERATION

Check out the burner and explain its operation to the homeowner. Be sure to leave the Owner’s Instruction sheet with the homeowner.

FIRE EXTINGUISHER

If required by local codes, install an approved fire extinguisher.

SPARE PARTS



SPARE PARTS LIST

No.	CODE SPARE PARTS	DESCRIPTION
1	**3020510**	Burner Back Cover
2	**3007077**	Crushable Metal Washer
3	**3005771**	Banjo Core Adapter - Pressure Port
4	**3005803**	Banjo Fitting - Pressure Port
5	**3005804**	Banjo Core Adapter - Return Line
6	**3007079**	Crushable Metal Washer
7	**3005805**	Banjo Fitting - Return
8	**3007028**	O-Ring - Pump Pressure Regulator
9	**3007202**	Regulator Screw
10	**3007162**	O-Ring - Pump Cover
11	**3005719**	Pump Screen
12	**3006925**	Valve Stem
13	**3007203**	Valve Stem Plate
14	**3005847**	1/4” NPT/ Metric Adapter - Female
15	**3006571**	3/8” NPT/Metric Adapter - Male
16	**3007029**	O-Ring - Valve Stem Upper
17	**3007156**	O-Ring - Valve Stem Lower
18	**3006995**	Pipe connector - Return
19	**3007893**	Bleeder
20	**3006553**	Coil U-Bracket and Knurled Nut
21	**3002279**	Coil
22	**3007806**	Pump
23	**3006994**	Pipe connector - Supply
24	**3000443**	Pump Drive Key
25	**3005845**	Motor
26	**3005858**	Union - Nozzle Tube / Extension
27	**3007318**	Air Tube Cover
28	**3006500**	Hi Fire Delay Valve
29	**3001157**	Primary Control 530SE/C
30	**3002280**	Photo-cell
31	**3002278**	Primary Control Sub Base
32	**3005809**	Oil Pressure Tube
33	**3005808**	Oil Return Tube
34	**3005849**	Semi Flange
35	**3005851**	Universal Mounting Flange
36	**3005852**	Mounting Gasket
37	**3006499**	Hydraulic Jack

No.	CODE SPARE PARTS	DESCRIPTION
38	**3008050**	Capillary Tube
39	**3000645**	Hydraulic Air Shutter
40	**3007211**	Air Intake Housing
41	**3005799**	Fan
42	**3005857**	Nozzle Oil Tube Extension
43	**3005846**	Capacitor 16 µF
44	**3007358**	Acoustic Liner
45	**3005801**	Gasket
		OPTIONAL
46	**3002762**	Ducted Combustion Air Intake Kit
50	**3949271**	**Short Combustion Head 5” (275T1)**
51	**3005897**	Turbulator Disc
52	**3005896**	Cross - casting
53	**3006965**	Nozzle Adapter
54	**3006987**	Nozzle Oil Tube - Short
55	**3005900**	Regulator assembly - Short
56	**3005902**	Electrode assembly - Short
57	**3005869**	Electrode Porcelain
58	**3005894**	End Cone
59	**3005892**	Short Air Tube
50	**3949272**	**Long Combustion Head 10” (275T2)**
51	**3005897**	Turbulator Disc
52	**3005896**	Cross - casting
53	**3006965**	Nozzle Adapter
54	**3006988**	Nozzle Oil Tube - Long
55	**3005901**	Regulator assembly - Long
56	**3005903**	Electrode assembly - Long
57	**3005869**	Electrode Porcelain
58	**3005894**	End Cone
59	**3005893**	Long Air Tube

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Hingham, MA 02043
Phone: 781-749-8292
Toll Free: 800-992-7637
Fax: 781-740-2069

2165 Meadowpine Blvd.
Mississauga,On L5H 3R2
Phone: 905-542-0303
Toll Free: 800-387-3898
Fax: 905-542-1525

BURNER START- UP FORM *

Burner S/N. or Model: _____ Appliance: _____

Installer name: _____

Company: _____ Installation date: _____

Address: _____

Phone: _____ Fax: _____

Owner Name: _____

Address: _____

Phone: _____ E-mail: _____

Burner Start-up Info (OIL)

Nozzle info: _____ Pump pressure: _____

Air setting: _____ Turbolator setting: _____

Draft overfire: _____ Draft breech: _____

CO_2: _____ CO: _____ O_2: _____ Smoke density: _____ (Bacharach) _____

Single line: ☐ Two lines: ☐

* This form was designed and provided in the installation manual for reference and also for providing technical information which can be faxed or mailed to our technical hot-line coordinator when technical assistance is required. Please complete this form, fax it or mail it at the address/fax above, or send an e-mail with the information listed below to: techservices@riellocanada.com

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