

Single stage operation oil burners



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.



CODE	MODEL	TYPE
3726312	F10 WITH HYDRAULIC JACK	263T
3726392	F10 WITH HYDRAULIC JACK	263T



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.

CANADA It is suggested that the installer follow CSA standard B139.

USA 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 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

CANADA All electrical connections should be done in accordance with the C.E.C. Part 1, and all local codes. The system should be grounded.

USA All electrical connections should be done in accordance with the National Electrical Code, and all local ordinances. 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.

ELECTRICAL CONNECTIONS

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.

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PACKAGE CONTENTS LIST

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

Quantity	Description	Code
1	Burner chassis with cover	3726312 - 3726392
1	Universal mounting flange + mounting gasket	2567390
1	Parts bag	2566281 - 2566287
1	Parts bag	2567337
1	Installation manual	2902451
	Separate carton - OEM burners shipped with con	nbustion head mounted
1	Air Tube/Drawer Assembly	
1		

1 By-pass plug

Parts bag 2566281 - 2566287

Parts bag 2	Parts bag 2566281 - 2566287		Parts bag 2567337		
Quantity	Description	Quan	tity	Description	
1	Female 1/4" NPT adapter	2		Semi-flange bolts (long)	
1	Male 3/8" NPT adapter	2		Semi-flanges	
1	Oil pump connector (supply)	2		Cover screws	
1	Oil pump connector (return)	2		Nuts	
2	Mounting flange bolts (short)				
2	Nuts				
2	Chrome nuts				

SERIAL NUMBER IDENTIFICATION

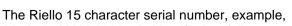
Your Riello burner may have been manufactured in more than one location and therefore there are two possible serial number identification.

Year of

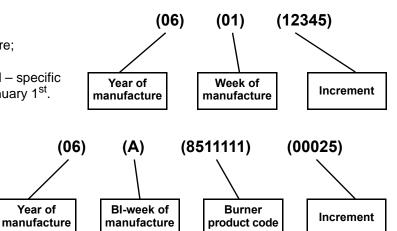
The Riello 9 character serial number, example,
OG 01 12215 is identified as follows:

06	01	12345, I	s	identified	as	follows:
		-				

- 06 = Last two digits of the year of manufacture;
- 01 = Week of manufacture;
- = Increment of 1 for each burner produced specific 12345 to product code – reset to zero each January 1st.

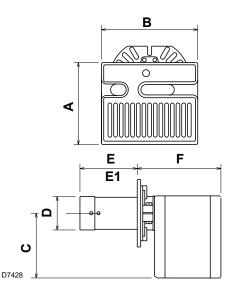


- 06 A 8511111 00025, is identified as follows:
- = Last two digits of the year of manu-06 facture:
- = BI-week of manufacture; Α
- **8511111** = Burner product code;
- 00025 = Increment of 1 for each burner produced - specific to product code reset to zero each January 1st.



TECHNICAL DATA SPECIFICATIONS

Fuel	No. 2 Fuel Oil			
Firing rate	1.45 to 2.95 GPH 4.7 to 9.5 kg/h			
Effective output	203,000 to 413,000 BTU/h - 59.5 to 121 kW			
	51,160 to 104,130 kcal/h			
Voltage (single phase)	120V 60Hz (+ 10% - 15%)			
Absorbed electrical power	230 Watts			
Motor (rated)	3250 rpm Run Current 2.2 AMP			
Capacitor	12.5 Microfarads 260V			
Pump pressure	100 to 200 psi			
Primary control	RIELLO 530 SE/C 24V (for code 3726312)			
	RIELLO 530 SE/C (for code 3726392)			
Ignition transformer	8kV 16mA			

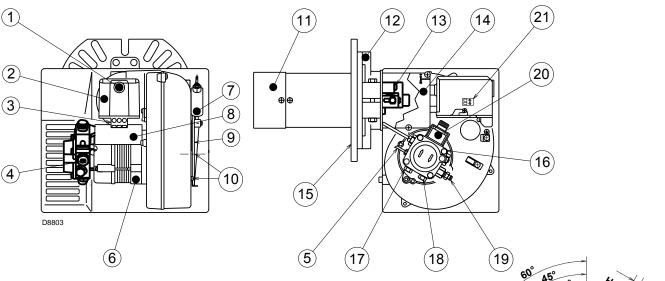


BURNER AND MOUNTING FLANGE DIMENSIONS

Model F10	Α	В	С	D	E	F	G	н	I	L
Inches	10 5/16	12	8 1/32	3 15/16	5	10 7/16	1 1/4	1/4	7/16	2 3/16
mm	262	305	204	100	127	265	32	6	11	56

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

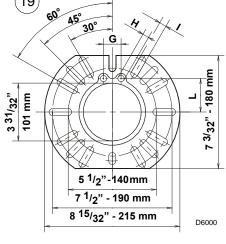
BURNER COMPONENTS IDENTIFICATION



BURNER COMPONENTS

- 1 Lockout indicator lamp and reset button
- 2 Primary control
- 3 Primary control sub-base
- 4 Pump pressure regulator adjustment screw
- 5 Capillary tube
- 6 Motor
- 7 Hydraulic jack
- 8 Capacitor
- 9 Hydraulic air shutter
- 10 Air adjustment fixing screws
- 11 End cone

- 12 Adjustable collar
- 13 Turbulotor adjustment screw
- 14 Air tube cover
- 15 Mounting flange with gasket
- 16 Vacuum gauge connection port
- 17 Inlet fuel line port
- 18 Return fuel line port
- 19 Pressure gauge and bleeder port20 Coil
- 21 24V thermostat connections (only for 3726312)



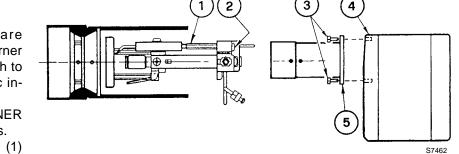
INITIAL SET-UP

- A) Remove burner and air tube from cartons. Check parts list (inside cover) to ensure all parts are present.
- B) Remove burner cover by loosing the three screws securing it. Remove control box and air tube cover.
- C) Remove drawer assembly from air tube, insert nozzle and set Turbulator adjustment for specific input required, 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 8) and set aside.

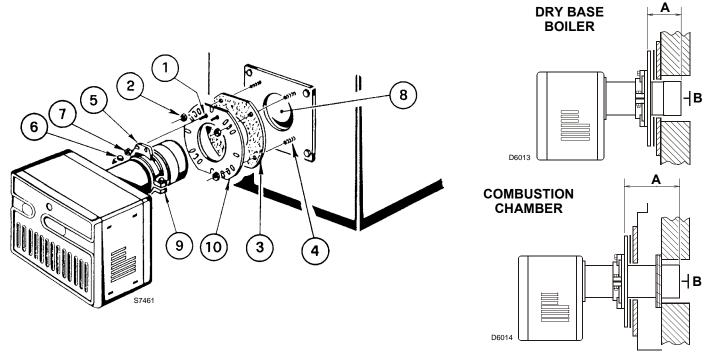
- C) Remove the two BOLTS (3) from FRONT PLATE (4) of the BURNER CHASSIS. Align the two holes on the AIR TUBE HOLDING PATE (5) with the two holes on the BURNER CHASSIS FRONT PLATE with the BOLTS (3) removed. Replace the BOLTS and fingers tighten only. Re-install DRAWER ASSEMBLY into AIR TUBE. Tighten SCREW (2) securely.
- 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 (9) 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 above). 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 insetting 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 (9). 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, item 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.

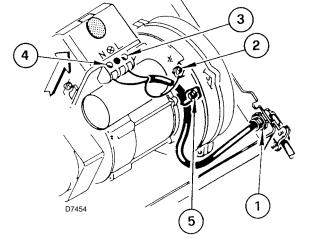
ELECTRICAL CONNECTIONS

It is advisable to leave the control box off the sub-base while completing the electrical connection 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 wither wire to the terminal marked \bigotimes .



The burner may be controlled using either a DIRECT LINE VOLTAGE control circuit (120V AC 60 cycle) OR:

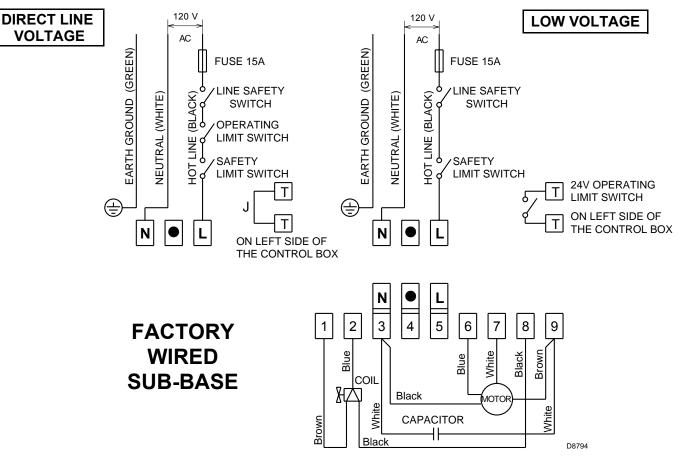
- a LOW VOLTAGE thermal input (T-T) if the primary control 530SE/C 24V is used (burner code 3726312);
- a LOW VOLTAGE control (24V AC 60 cycle) using a R8038A Honeywell switching relay or equivalent, if the primary control 530SE/C is used (burner code 3726392).

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.

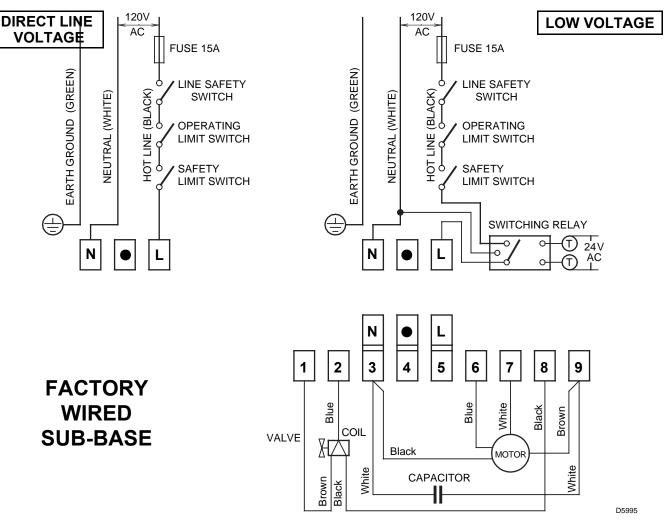
When all electrical connections have been made, the control box may be put back in place on the sub-base.

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 (only for code 3726312 - primary control 530SE/C 24V)







NOTE:

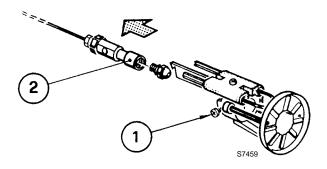
Terminal 4 is to be used to activate a remote safety lockout circuit only. A 120V AC source is supplied to Terminal 4 upon lockout. The maximum allowable current draw for this circuit is 1 AMP.

IMPORTANT:

If a neutral or ground lead is attached to Terminal 4, the control box will be damaged should lockout occur.

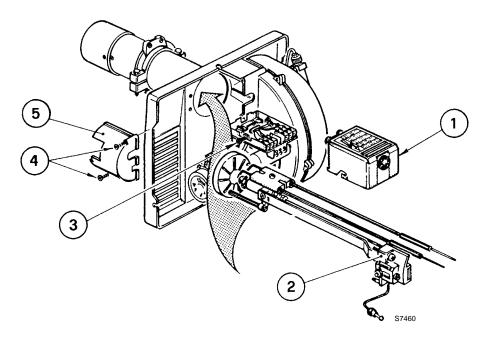
NOZZLE PLACEMENT

- A) Determine the proper firing rate for the boiler or furnace units, considering the specific application, and then use the Burner Setup Charts 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 AS-SEMBLY by loosening the SCREW (1).
- C) Insert the proper NOZZLE into the NOZZLE ADAPTER and tighten securely (Do not over tighten).
- D) Replace adapter, with nozzle installed, into drawer assembly and secure with screw (1).



INSTALLATION/REMOVAL OF DRAWER ASSEMBLY

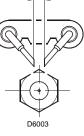
- A) To remove drawer assembly, loosen SCREW (3), then unplug CONTROL BOX (1) by carefully pulling it back and then up.
- B) Remove the AIR TUBE COVER PLATE (5) by loosening the two retaining SCREWS (4).
- C) Loosen SCREW (2), then slide the complete drawer assembly out of the combustion head as shown.
- D) To insert drawer assembly, reverse the procedure in items A to C above, then attach fuel line to the pump.

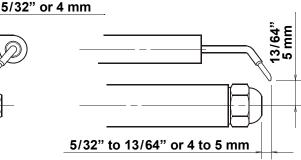


ELECTRODE SETTING

IMPORTANT:

These dimensions must be observed and verified.



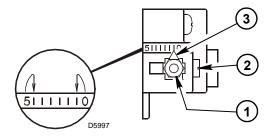


TURBULATOR SETTING

- 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.

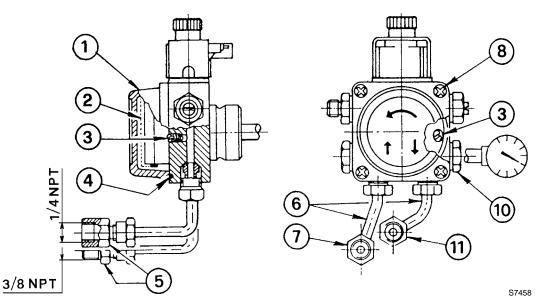


GB

OIL LINE CONNECTIONS

WARNING: The burner is shipped from the factory with the pump set to operate on a TWO line system. To operate on a SINGLE line system, the by-pass plug **must** be removed or damage will occur to the pump shaft seal.

NOTE: Pump pressure **must** be set at time of burner start-up. A pressure gauge is attached to the PRESSURE PORT (10) for pressure readings. Two PIPE CONNECTORS (6) are supplied with the burner for connection to either a single or a two-pipe system. Also supplied are two adapters (5), one male 3/8" NPT and one 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.

SINGLE LINE (GRAVITY FEED)

A) Convert the pump for operation on a single line system by removing the by-pass plug.

To remove by-pass plug:

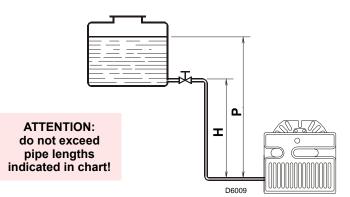
- 1) Remove the PUMP COVER (1) by removing the four cover SCREWS (8).
- 2) Remove the PUMP STRAINER (2), unscrew and remove BYPASS PLUG (3).
- 3) Replace the strainer and pump cover. Tighten the four SCREWS (8) securely.

NOTE:

Be sure the O-ring is properly seated in the PUMP HOUSING (4) before tightening the pump cover screws.

B) Connect the pipe connector to the SUCTION PORT(7) of the pump.

Attach the required piping to this pipe connectors. Be sure that the plug in the RETURN PORT (11) is tightened securely.



SINGLE LINE SYSTEM - PIPE LENGTHS									
	н	3/8	" OD	1/2" OD					
Feet	Meters	Feet	Meters	Feet	Meters				
1 1/2	0.5	33	10	65	20				
3	1.0	65	20	130	40				
5	1.5	130	40	260	80				
6 1/2	2.0	195	60	325	100				

TWO LINE (LIFT SYSTEM)

A) The burner is shipped with the pump set to operate on a two line system. Suction and return lines (7 & 11 in drawing on page 7) 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.

B) Attach the two PIPE CONNECTORS (6) to the pump SUCTION and pump RETURN PORTS (7 and 11). Attach the required piping to these two pipe connectors using the NPT/METRIC ADAPT-ERS that are supplied with the burner.

WARNING:

- Pipe dope or Teflon tapes are NOT to be used on any direct oil connection to the fuel pump.
- The height 'P' in Pipe Length Charts should not exceed 13 feet (4 m).
- 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

A) SINGLE LINE (GRAVITY SYSTEM)

Remove the plug in the VACUUM PORT (A) and wait for the fuel oil to flow out. The burner is now ready to operate.

B) TWO LINE (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).

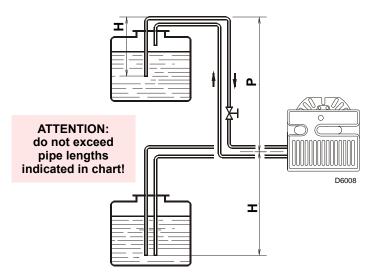
ATTENTION:

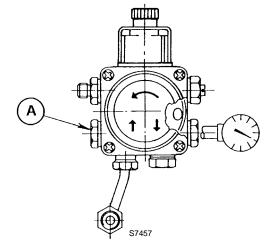
It is important that the fuel line be completely sealed and free from air leaks or any internal blockages.

WARNING!

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

2 LINE (LIFT) SYSTEM - PIPE LENGTHS										
ŀ	ł	3/8"	OD	1/2" OD						
Feet	Meters	Feet	Meters	Feet	Meters					
0	0.0	115	35	330	100					
1 1/2	0.5	100	30	330	100					
3	1.0	80	25	330	100					
5	1.5	65	20	295	90					
6 1/2	2.0	50	15	230	70					
9 1/2	3.0	25	8	100	30					
11	3.5	20	6	65	20					





SETTING THE AIR ADJUSTMENT PLATE

A) The hydraulic AIR SHUTTER (1) is operated by the HYDRAULIC JACK (6), assuring complete opening of the combustion air intake.

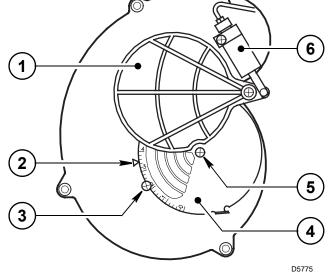
Regulation of the combustion air flow is made by adjustment of the manual AIR ADJUSTMENT PLATE (4) after loosening the FIXING SCREWS (3 & 5).

The initial setting of the air adjustment plate should be made according to Column 5 in the Burner Set-up Chart.

B) The proper number on the manual AIR ADJUSTMENT PLATE (4) should line up with the SETTING INDICATOR (2) on the fan housing cover.

Once set, the air adjustment plate should be secured in place by tightening SCREWS 3 and 5.

Manually open and release the hydraulic air shutter to ensure it has free movement.



C) The final position of the air adjustment plate will vary on each installation. Use instruments to establish the proper settings for maximum CO₂ 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

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.

	1	2		3	4	5
	l Firing ± 5%	Nozzle Size		imp ssure	Turbulator Setting	Air Damper Setting
GPH	kg/h	GPH	PSI	bar	Setting	Setting
1.45	4.7	1.25 x 60°	145	10	1.5	2.7
1.80	5.8	1.50 x 60°	145	10	2.0	2.8
2.10	6.8	1.75 x 60°	145	10	2.5	3.1
2.40	7.8	2.00 x 60°	145	10	3.5	3.4
2.75	8.9	2.25 x 60°	150	10.4	4.0	4.2
2.95	9.5	2.50 x 60°	140	9.8	4.5	4.2

NOZZLES RECCOMANDED:

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

NOTE:

A 60° degree nozzle is suggested, however, a 80° degree nozzle may be used in cases where the flame is unstable at light-off when operated at low ambient temperatures.

DUCTED COMBUSTION AIR INTAKE APPLICATIONS

The "Ducted combustion air intake kit" (see P.N. 3002762 in the spare parts list - OPTIONS), allows ducting of external air directly into the burner. A 4" diameter air intake is provided in the kit.

To mount this kit on the burner, please follow the installation description given in the kit instruction sheet. If the burner code 3726392 is used, the pre-sheared cover must be adopted (see P:N: 3020509 in the spare parts list) to apply the 4" diameter air intake.

Use a 4" to 6" pipe adapter (not supplied in the kit) to use a 6" diameter pipe.

The settings of the burner must be according to the BURNER SETUP CHART – AIR INTAKE APPLICATIONS below.

	MODEL F10 BURNER SETUP CHART with 4" diameter pipe.										
Actual Firing Rate GPH	Nozzle Size	Pump Pressure	Head Setting	20 Ft. pipe length	50 Ft. pipe length	80 Ft. pipe length	100 Ft. pipe length				
		PSI	<u> </u>	Air Setting	Air Setting	Air Setting	Air Setting				
1.45	1.25 x 60°/80°	145	1.5	2.3	2.4	2.5	2.5				
1.80	1.50 x 60°/80°	145	2.0	2.9	3.0	3.0	3.0				
2.10	1.75 x 60°/80°	145	2.5	3.7	3.8	3.8	3.8				
2.40	2.00 x 60°/80°	145	3.5	4.4	4.5	4.5	4.5				
2.75	2.25 x 60°/80°	150	5.0	5.5	6.0	6.4	6.5				

MODEL F10 BURNER SETUP CHART with 6" diameter pipe.								
Actual Firing Rate GPH	Nozzle Size	Pump Pressure PSI	Head Setting	20 Ft. pipe length	50 Ft. pipe length	80 Ft. pipe length	100 Ft. pipe length	
		P31	Ĵ	Air Setting	Air Setting	Air Setting	Air Setting	
1.45	1.25 x 60°/80°	145	1.5	2.3	2.4	2.4	2.5	
1.80	1.50 x 60°/80°	145	2.0	2.8	2.8	2.9	2.9	
2.10	1.75 x 60°/80°	145	2.5	3.5	3.5	3.6	3.7	
2.40	2.00 x 60°/80°	145	3.5	4.2	4.2	4.3	4.4	
2.75	2.25 x 60°/80°	150	4.5	5.2	5.2	5.5	6.5	
2.89	2.50 x 60°/80°	145	5.0	6.0	6.0	7.0	8.0	

NOZZLES RECCOMANDED:

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

NOTE:

A 60° degree nozzle is suggested, however, a 80° degree nozzle may be used in cases where the flame is unstable at light-off when operated at low ambient temperatures.

NOTES:

- A) This kit is not suitable for direct vent applications.
- **B)** Always try to minimize the length of the air intake pipe.
- **C)** Reduce pipe length by 10 feet for every 90° elbow, 5 feet for every 45° elbow.
- D) Reduce pipe length by 6 feet for the 4" to 6" pipe adapter (if used).
- **E)** Air intake venting should be insulated 10 feet from air intake source with a minimum R7 foil lined insulation, to prevent condensation or corrosion of air intake venting.
- F) Use an approved type of air intake vacuum breaker and install it in the same room of the burner.

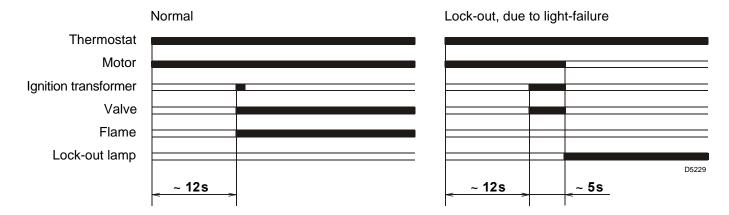
This device should be tested to prove that the vacuum breaker balancer is set correctly and, in the event of intake air source being blocked, can provide enough combustion air for the burner. If the room where the burner is installed cannot provide enough air or air quality is a concern, an additional air inlet source must be provided to this room.

G) On the outside of the wall, use an approved intake air hood, located above the snow line and in such way as to prevent leaves and/or other debris from blocking the air flow. Refer to local codes for proper location of inlet.

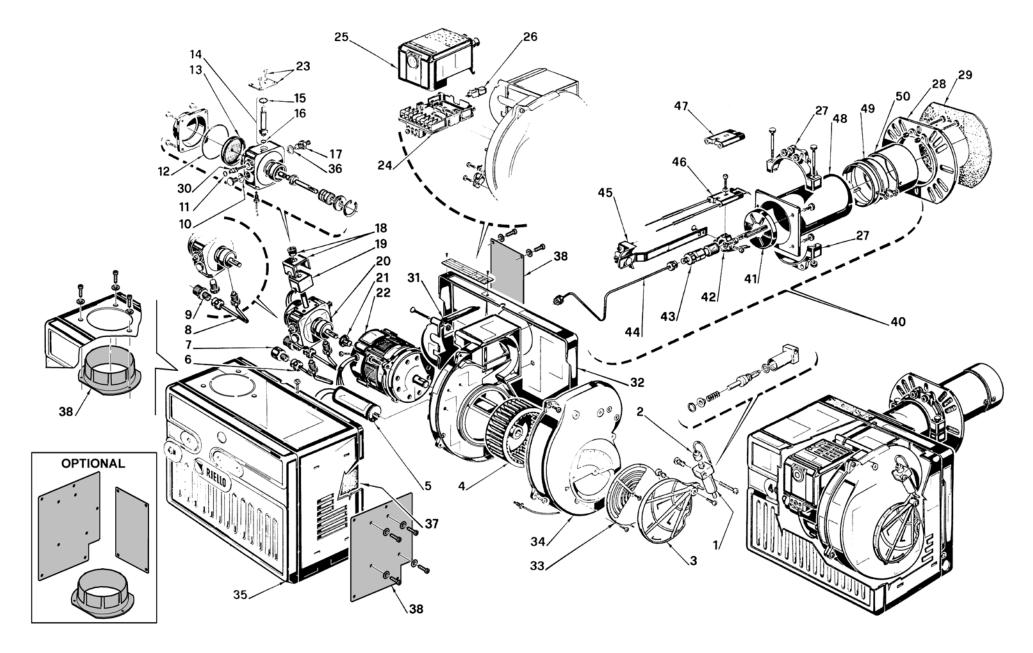
COMBUSTION CHAMBER

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

BURNER START-UP CYCLE



EXPLODED SPARE PARTS LIST



GB

SPARE PARTS LIST

No.	CODE	3726312	3726392	DESCRIPTION	No.	CODE	3726312	3726392	DESCRIPTION
1	3006911	•	٠	HYDRAULIC JACK					OPTIONAL
2	3006912	٠	•	CAPILLARY TUBE	38	3002762	•	•	DUCTED COMBUSTION AIR INTAKE KIT
3	3000879	•	•	HYDRAULIC AIR SHUTTER					
4	3005788	٠	•	FAN					
5	3005844	•	•	CAPACITOR 12.5 µF	40	3949071	•	•	SHORT COMBUSTION HEAD 5" (273T1)
6	3006993	٠	•	PIPE CONNECTOR - RETURN	41	3006978	٠	٠	TURBULATOR DISC
7	3005847	•	•	1/4" NPT/ METRIC ADAPTER - FEMALE	42	3006966	٠	٠	ELECTRODE SUPPORT
8	3006992	٠	•	PIPE CONNECTOR - SUPPLY	43	3006965	٠	•	NOZZLE ADAPTER
9	3006571	•	•	3/8" NPT/METRIC ADAPTER - MALE	44	3006979	٠	•	NOZZLE OIL TUBE
10	3007077	٠	•	CRUSHABLE METAL WASHER	45	3005888	٠	٠	REGULATOR ASSEMBLY-SHORT
11	3007028	•	•	O-RING - PUMP PRESSURE REGULATOR	46	3005890	٠	٠	ELECTRODE ASSEMBLY-SHORT
12	3007162	٠	•	O-RING - PUMP COVER	47	3005869	٠	•	ELECTRODE PORCELAIN
13	3005719	٠	•	PUMP SCREEN	48	3006981	٠	٠	AIR TUBE-SHORT
14	3006036	٠	•	VALVE STEM	49	3006983	٠	٠	END CONE ADAPTER
15	3007029	٠	•	O-RING - VALVE STEM UPPER	50	3006984	٠	٠	END CONE
16	3007156	٠	•	O-RING - VALVE STEM LOWER					
17	3007268	٠	•	NOZZLE OUTLET FITTING	40	3949072	٠	٠	LONG COMBUSTION HEAD 10" (273T2)
18	3006553	٠	•	COIL U-BRACKET AND RETAINER NUT	41	3006978	٠	٠	TURBULATOR DISC
19	3002279	٠	•	COIL	42	3006966	٠	٠	ELECTRODE SUPPORT
20	3005906	٠	•	PUMP	43	3006965	٠	٠	NOZZLE ADAPTER
21	3000443	•	•	PUMP DRIVE KEY	44	3006980	٠	٠	NOZZLE OIL TUBE
22	3005843	٠	•	MOTOR	45	3005889	٠	٠	REGULATOR ASSEMBLY-LONG
23	3007203	٠	•	PLATE	46	3005891	٠	٠	ELECTRODE ASSEMBLY-LONG
24	3002278	٠	•	PRIMARY CONTROL SUB BASE	47	3005869	٠	٠	ELECTRODE PORCELAIN
25	3020487	•		PRIMARY CONTROL 530SE/C 24V	48	3006982	•	•	AIR TUBE-LONG
25	3001157		•	PRIMARY CONTROL 530SE/C	49	3006983	٠	٠	END CONE ADAPTER
26	3002280	•	•	PHOTO CELL	50	3006984	•	•	END CONE
27	3005854	•	•	SEMIFLANGE					
28	3005855	•	•	UNIVERSAL MOUNTING FLANGE					
29	3005856	•	•	MOUNTING GASKET					
30	3007202	٠	•	REGULATOR	ATTENTION!				
31	3007317	٠	•	AIR PLATE COVER	IF THE BURNER CODE 3726392 IS USED, THE PRE-SHEARED COVER (CODE 3020509) MUST				ED, THE PRE-SHEARED COVER (CODE 3020509) MUST
32	3007223	•	•	CHASSIS FRONT PLATE	BE ADOPTED TO APPLY THE DUCTED COMBUSTION AIR INTAKE KIT (CODE 3002762).				
33	3007205	•	•	MANUAL AIR SHUTTER					
34	3007209	•	•	AIR INTAKE HOUSING					
35	3020509	٠		BURNER BACK COVER					
35	3007234		•	BURNER BACK COVER					
36	3007087	٠	•	CRUSHABLE METAL WASHER					
37	3007357	•	•	PHONO ABSORBENT					

35 Pond Park Rd. 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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