



# MODEL F3 & F5 INSTALLATION MANUAL

RIELLO 40 SERIES RESIDENTIAL **OIL BURNERS** 

NOTE: The settings in this manual are for retrofit applications. If this burner is being installed on a packaged unit (burner comes with the boiler or furnace), then follow the settings on the OEM page, as settings may differ. Burner is set for a single line system.

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# PACKAGE LIST

Your Riello 40 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)
- 1 Female  $\frac{1}{4}$ " NPT adapter
- 1 Male 3/8" NPT adapter
- 1 2.5 mm Allen key
- \* OEM burners shipped with combustion head mounted

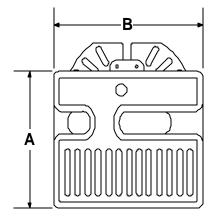
#### QTY. DESCRIPTION (carton)

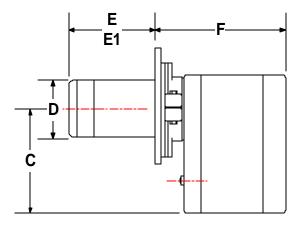
- 1 Burner chassis with cover
- 1 Universal Mounting Flange
- 2 Semi-flanges
- 1 Mounting gasket
- 1 Installation Manual
- 1- By-pass plug

#### \* (Separate carton)

1 - Combustion Head

# **RIELLO 40 F3 TECHNICAL DATA**





# **DIMENSIONS**

MODEL F3	Α	В	С	D	Ε	F
Inches	8 15/32	9 59/64	6 15/32	3 1/2	6	8 29/32
mm	215	252	164	89	152	226

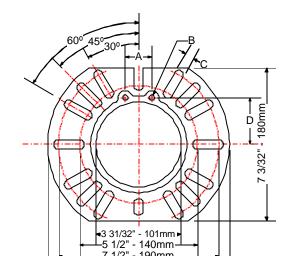
E1: 10-inch long (254mm) tubes are also available.

# **SPECIFICATIONS**

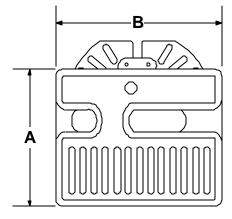
FUEL:	No. 2 Fuel Oil
FIRING RATE:	0.50 to 0.95 US GPH
EFFECTIVE OUTPUT:	70,000 to 133,000 BTU/h
VOLTAGE (Single Phase):	120V 60Hz (+ 10% - 15%)
ABSORBED ELECTRICAL POWER:	264 Watts
MOTOR (rated):	3250 rpm Run Current 2.2 AMP
CAPACITOR:	12.5 Microfarads
PUMP PRESSURE:	130 to 200 psig
PRIMARY CONTROL:	RIELLO 530 SE/C
IGNITION TRANSFORMER:	8kV 16mA

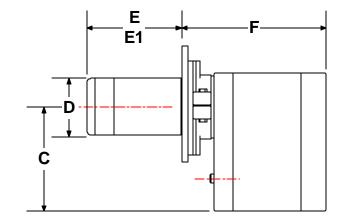
#### **MOUNTING FLANGE DIMENSIONS**

MODEL F3	Α	В	С	D
Inch	1 1/4	1/4	7/16	2 3/16
mm	32	6	11	56



# **RIELLO 40 F5 TECHNICAL DATA**





# **DIMENSIONS**

MODEL F5	А	В	С	D	E	F
Inches	9 11/64	10 11/16	7 3/32	3 1/2	6	9 13/32
mm	233	272	180	89	152	239

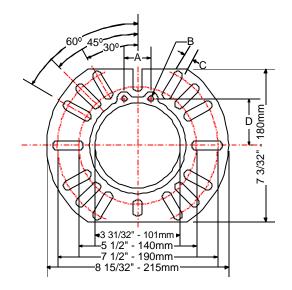
E1: 10-inch long (254mm) tubes are also available.

# **SPECIFICATIONS**

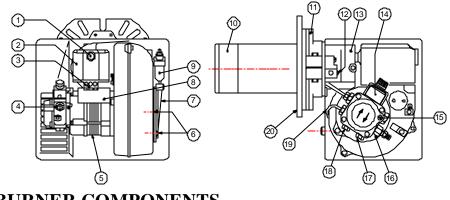
FUEL:	No. 2 Fuel Oil
FIRING RATE:	0.75 to 1.65 US GPH
EFFECTIVE OUTPUT:	105,000 to 231,000 BTU/h
VOLTAGE (Single Phase):	120V 60Hz (+ 10% - 15%)
ABSORBED ELECTRICAL POWER:	¦ 175 Watts
MOTOR (rated):	3250 rpm - 2.2 AMP
CAPACITOR:	12.5 Microfarads
PUMP PRESSURE:	130 to 200 psig
PRIMARY CONTROL:	RIELLO 530 SE/C
IGNITION TRANSFORMER:	8kV 16mA

#### **MOUNTING FLANGE DIMENSIONS**

MODEL F5	Α	В	С	D	
Inch	1 1/4	1/4	7/16	2 3/16	
mm	32	6	11	56	



# OIL BURNER COMPONENTS IDENTIFICATION RIELLO 40 SERIES



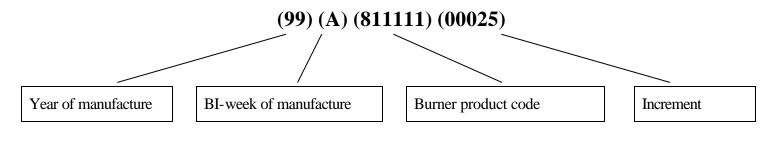
# F3 & F5 BURNER COMPONENTS

- 1. Lockout indicator lamp and reset button
- 2. Primary control
- 3. Primary control sub-base
- 4. Pump pressure regulator
- 5. Motor
- 6. Air adjustment fixing screws
- 7. Hydraulic air shutter
- 8. Capacitor
- 9. Hydraulic Jack (optional)
- 10. Combustion Head

- 11. Semi Flange
- 12. Turbulator adjustment screw
- 13. Air tube cover
- 14. Coil
- 15. Vacuum gauge port
- 16. Pressure gauge and bleeder port
- 17. Return fuel line port
- 18. Supply fuel line port
- 19. Capillary tube
- 20. Mounting flange with gasket

# SERIAL NUMBER IDENTIFICATION

The Riello 15 character serial number, example, **99 A 8511111 00025**, is identified as follows: **99** = last two digits of the year of manufacture;  $\mathbf{A} = \text{BI-week}$  of manufacture; **8511111** = burner product code; **00025** = increment of 1 for each burner produced – specific to product code – reset to zero each January 1<sup>st</sup>.



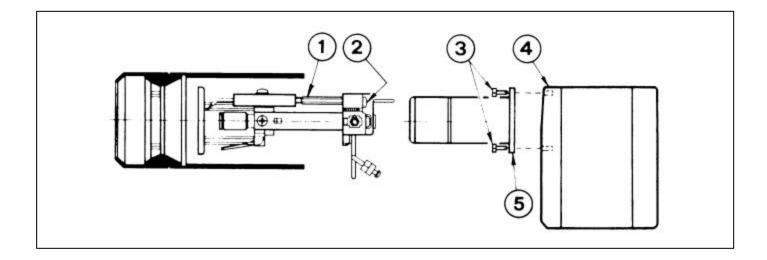
# **INITIAL SET-UP**

- 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 (see page 8).
- C) Remove drawer assembly from air tube, insert nozzle and set Turbulator adjustment for specific input required (see pages 8 & 9), then set aside.
- D) Mount air tube to burner chassis (see next page).

# 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 10) 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 (see page 10).
- D) Tighten the two bolts (3) securely.



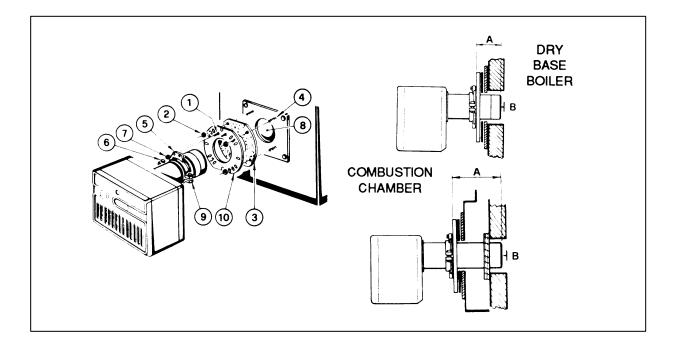
# **MOUNTING THE BURNER TO THE BOILER OR FURNACE**

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 ¼ inch (6.5mm) 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  $\frac{1}{4}$ " (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 <sup>1</sup>/<sub>4</sub> inch (6.5mm) 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.

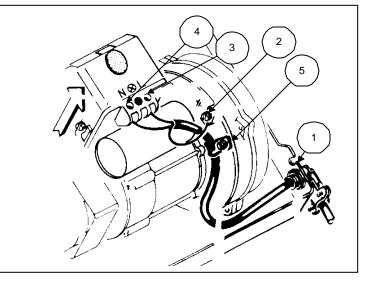
# **ELECTRICAL CONNECTIONS**

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

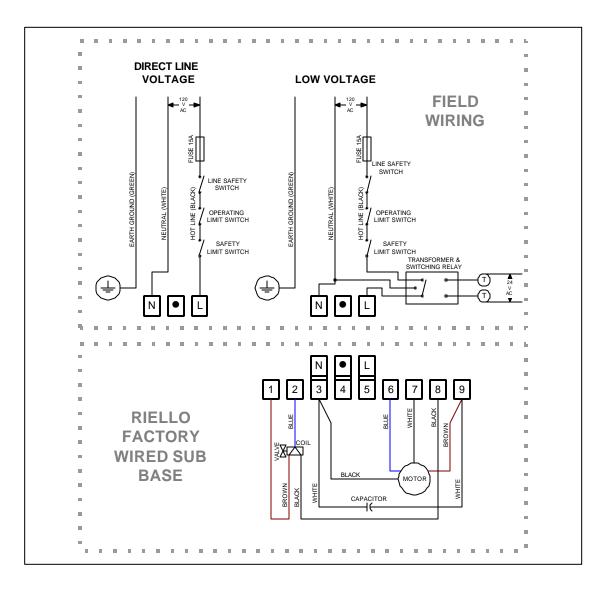
the terminal marked 🚫



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

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.

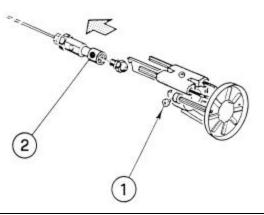
<u>WARNING</u>: DO NOT activate burner until proper oil line connections have been made, or failure of the pump shaft seal may occur.



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

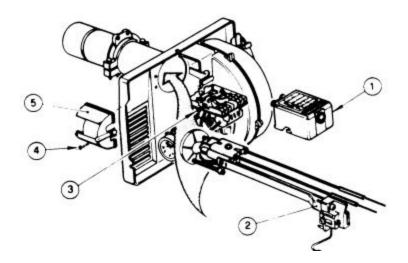
- A) Determine the proper firing rate for the boiler or furnace units, considering the specific application, and then use the Burner Setup charts on page 15 to select the proper nozzle and pump pressure to obtain the required input from the burner.
- B) Remove the NOZZLE ADAPTER (2) from the DRAWER ASSEMBLY by loosening the SCREW (1).
- C) Insert the proper NOZZLE into the NOZZLE ADAPTER and tighten securely (Do not over tighten).
- D) Replace adapter, with nozzle installed, into drawer assembly and secure with screw (1).



# INSTALLATION/REMOVAL OF DRAWER ASSEMBLY

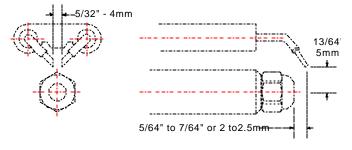
#### **Removal:**

- A) Loosen off oil delivery tube nut from pump.
- B) Loosen SCREW (3), and then unplug CONTROL BOX (1) by carefully pulling it back and then up.
- C) Remove the AIR TUBE COVER PLATE (5) by loosening the retaining SCREW (4) (Two SCREWS Model F5).
- D) Loosen SCREW (2), and then slide the complete drawer assembly out of the combustion head as shown.
- E) To insert drawer assembly, reverse the procedure in items A to D above.



# **ELECTRODE SETTING**

IMPORTANT: THIS DIMENSIONS MUST BE OBSERVED AND VERIFIED.



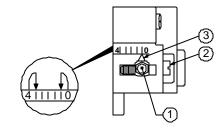
# **TURBULATOR SETTING**

A) Loosen NUT (1), and then turn SCREW (2) until the INDEX MARKER (3) is aligned with the correct index number as per the Burner Setup charts, or OEM specifications given with the appliance.

B) Retighten the RETAINING NUT (1).

**<u>NOTE: OEM specifications take priority over retrofit</u>** <u>specifications shown in this manual.</u>

**MODEL F3 NOTE:** Zero and four are scale indicators only From left to right the first line is 3 and the last line 0. **MODEL F5:** Same as above, except, scale indicators are 0 and 4.



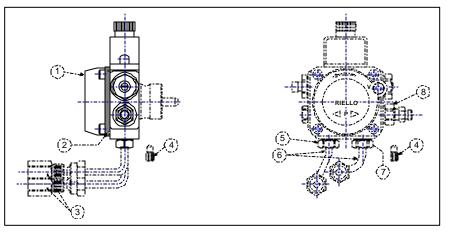
# **OIL LINE CONNECTIONS**

This burner is shipped with the oil pump set to operate on a **single** line system. To operate on a **two-line** system the bypass plug must be installed.

**WARNING:** Do not operate a single line system with the by-pass plug installed. Operating a single line system with the by-pass plug installed will result in damage 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** (8) for pressure readings. Two **PIPE CONNECTORS** (6) are supplied with the burner for connection to either a single or two-line system. Also supplied are two **ADAPTORS** (3), two female <sup>1</sup>/<sub>4</sub>" 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 to the pump ports. An NPT (metric) adapter **must** be used when connecting other gauge models.



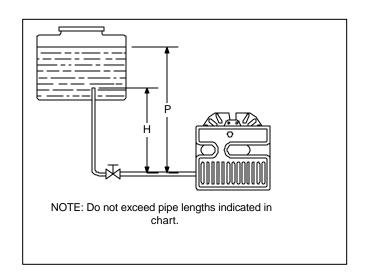
# SINGLE LINE (GRAVITY FEED SYSTEM)

A) The burner is shipped configured for use in single line applications. No changes to the oil pump are required for use in single line applications.

**NOTE:** If the **pump cover** (1) is removed for any reason, be sure the O-ring (2), is properly seated in the pump cover (1) before re-attaching the pump cover to the pump housing.

SING	LE LIN	E SYST	EM -PIF	PE LENO	GTHS	
I	Н		OD	1/2" OD		
FT	Μ	FT	Μ	FT	М	
1.5	0.5	33	10	65	20	
3.0	1.0	65	20	130	40	
5.0	1.5	130	40	260	80	
6.5	2.0	195	60	325	100	

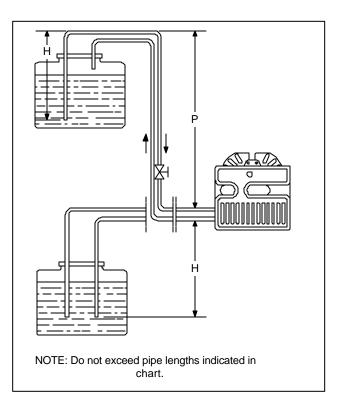
B) Connect the pipe connector to the SUPPLY PORT(5) of the pump. Attach the NPT adapter to the pipe connector. Attach the required piping to this pipe adapter. Be sure that the plug in the RETURN PORT (7) is tightened securely.



# **TWO LINE (LIFT SYSTEM)**

2	2 LINE (LIFT) SYSTEM -PIPE LENGTHS							
H	I	3/8"	OD	1/2"	OD			
FT	М	FT	Μ	FT	М			
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			

A) If a two-line system is required, install the By-pass plug provided. The by-pass plug is installed in the return port of the pump. A 2.5-mm hexagonal key provided with the by-pass plug is to be used to install the plug. DO NOT use an Imperial size hexagonal key; damage to the by-pass plug may result. When operating on a two-line system, supply and return lines 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 tables above.



To install the by-pass plug:

- 1) Remove the return plug (7)
- 2) Install the by-pass plug (4) using the 2.5 mm hexagonal key
- B) Attach the two PIPE CONNECTORS (6) to the pump SUPPLY and pump RETURN PORTS (5 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 tapes are NOT to be used on any direct oil connection to the fuel pump.

**WARNING:** The height 'P' in Pipe Length Charts 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.

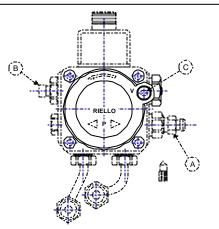
# **PUMP PURGE**

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 (C).

# A) SINGLE LINE (GRAVITY FEED SYSTEM)

- I. Loosen the bleeder valve (A) until oil flows out.Tighten the bleeder valve securely and startburner.
- II. When bleeding the pump by pressure:
  - 1) Loosen the bleeder valve (A).
  - 2) Disconnect nozzle oil supply line at the pump nozzleport (B).
  - 3) Attach a flexible plastic tube to the pump nozzle, port directing the oil flow into a bucket.
  - 4) Loosen the screw(s) securing the air tube cover, allowing it to be removed freely.
  - 5) Holding the air tube cover in its proper location start the burner.
  - 6) When the solenoid value is engaged approximately 10 seconds \_\_\_\_\_\_\_ after starting, remove the air tube cover and shine a light source on the photocell, allowing it to see false light.
  - 7) Run the burner until the fuel pump has been purged of air, then tighten the bleeder valve and immediately shut down the burner.
  - 8) Reinstall the air tube cover and nozzle line
  - 9) The burner can now be started normally.

**WARNING:** Omitting steps 2 and 3 will result in a collection of unburned oil in the combustion chamber creating a hazardous situation upon burner startup.



#### B) TWO LINE (LIFT SYSTEM)

Turn off the main power source to the burner and remove the air tube cover. Shines a light source on the photocell (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.

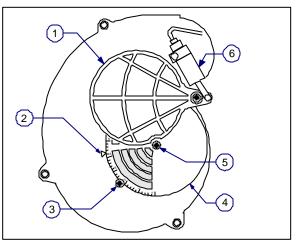
**ATTENTION:** It is important that the fuel line be completely sealed and free from air leaks or any internal blockages.

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

# 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 airflow 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 Setup Charts** on page 15.
- 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 SCREW 3 and 5. Manually open and release the hydraulic 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 setting 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 burner cover is put in place. Therefore, the burner cover **must** be in place when making final combustion instrument readings, to ensure proper test results.

# **BURNER ADJUSTMENT TABLES**

#### **NON-RETROFIT APPLICATIONS**

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

1	2		3	4	5														
ACTUAL FIRING	NOZZLE	PUMP		PUMP															
<b>RATE 5% ±</b>	SIZE	PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		PRESSURE		TURBULATOR	AIR DAMPER
US GPH	GPH	PSI	BAR	SETTING	SETTING														
0.50	.40 x 60°/80°	160	11.0	0.0	2.3														
0.60	.50 x 60°/80°	150	10.4	0.5	2.7														
0.75	.60 x 60°/80°	150	10.4	1.5	3.4														
0.80	.65 x 60°/80°	150	10.4	2.0	3.6														
0.95	.75 x 60°/80°	160	11.0	3.0	4.3														

#### MODEL F3 BURNER SETUP CHART

# **MODEL F5 BURNER SETUP CHART**

1	2	í.	3	4	5
ACTUAL FIRING	NOZZLE	PU	MP		
RATE 5% ±	SIZE	PRES	SURE	TURBULATOR	AIR DAMPER
US GPH	GPH	PSI	BAR	SETTING	SETTING
0.75	.60 x 60/ 80°	145	10	0.0	2.25
0.85	.65 x 60/ 80°	145	10	0.5	2.5
1.00	.85 x 60/ 80°	145	10	1.0	2.75
1.10	1.00 X 60/ 80°	145	10	2.0	3.0
1.25	1.10 x 60/ 80°	145	10	2.5	3.5
1.50	1.25 x 60/ 80°	145	10	3.0	4.25
1.65	1.35 X 60/ 80°	145	10	4.0	6.0

# **NOTE:** The above set up charts are a starting point only. The burner and appliance must be properly set up using proper combustion testing equipment.

Note: any approved oil burner nozzle type, angle and manufacturer maybe used, as long as input is corresponding the correct BTU/hr. or US gph input rating of the appliance.

# **COMBUSTION CHAMBER**

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

#### AMULET INSTALLATION INSTRUCTIONS (Required on some models)

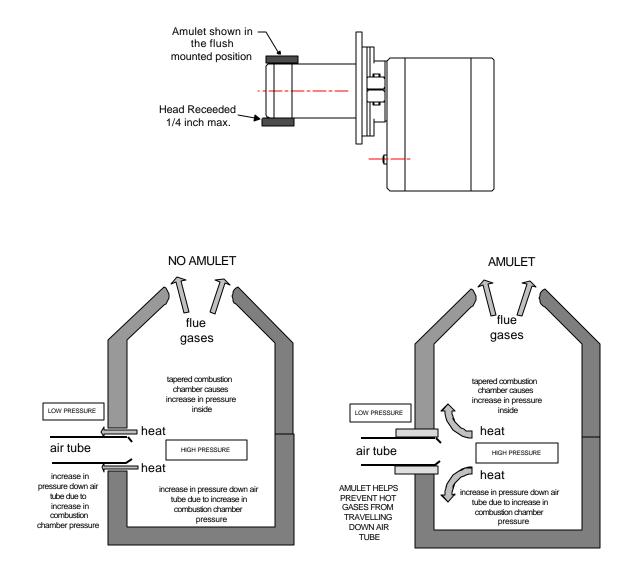
The amulets provided have been selected by Riello to protect the combustion tube from hot exhaust gases and flame. This protection may be needed in applications where the combustion tube opening in the combustion chamber refractory is larger than the tube outside diameter.

The amulet has been sized to fit Riello Model 40 sizes F3 and F5 plus the Riello Model R35.

When installing this amulet, handle it carefully. Do not exert undue pressure when pushing the amulet over the combustion tube. Excessive force can result in a broken amulet!

If the amulet will not fit easily onto the tube, remove a small amount of the inner diameter with a sharp knife to provide the necessary clearance.

The diagram below shows the proper position of the amulet after installation.



# INSTALLLATION 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.

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**

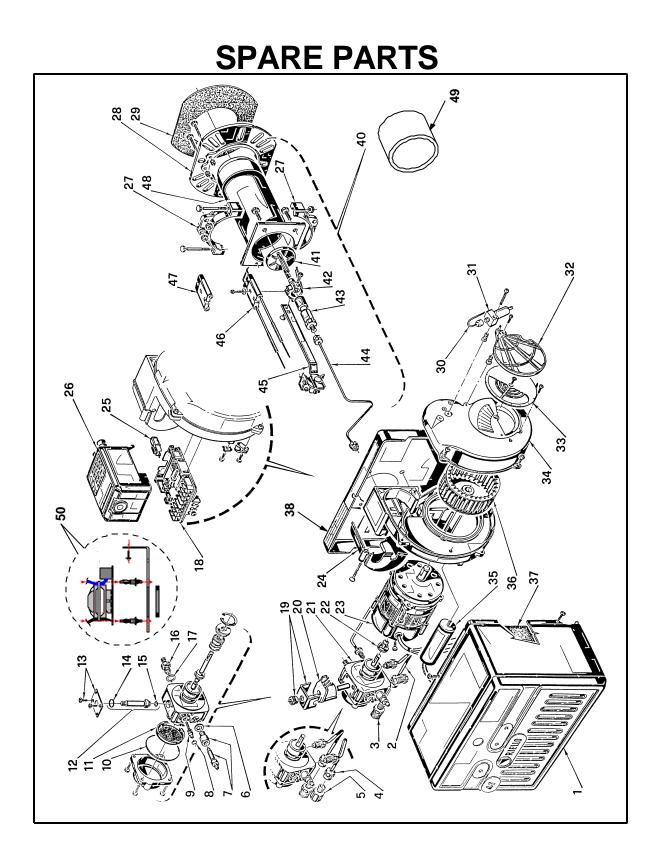
Check out the burner and explain its operation to the homeowner. Be sure to leave the Owner's Instruction sheet with the homeowner.

#### **FIRE EXTINGUSHER**

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.



				RIELLO SPARE P			-	-		F5	
				<ul> <li>Indicates applicab</li> </ul>	le m	nodel for ea	ach	par	t.		
No	CODE	F3	F5	DESCRIPTION	No	CODE	F3	F5		DESCRIPTION	
	3007232	•		Burner Back Cover	26	C7001029	•	•		Primary Control	
1	3007233	-	•	Burner Back Cover	27	3005854	•	•		Semi Flange (2 Required)	
2	3006992	•	•	Pipe Connector Supply	28	3005855	•	•		Universal Mounting Flange	
3	3006571	•	•	3/8" NPT/Metric Adapter – Male	29	3005856	•	•		Mounting Gasket	
4	3006993	•	•	Pipe Connector Return		C7001058	•			Capillary Tube (if used)	
5	3005847	•	•	1/4" NPT/Metric Adapter – Female	30	C7001059	-	•		Capillary Tube (if used)	
6	3007077	•	•	Crushable Metal Washer 3/8" ID	31	3006911	•	•		Hydraulic Jack (if used)	
7	3007568	•	•	Bleeder	32	3000878	•	•		Hydraulic Air Shutter (if used)	
8	3007028	•	•	O-Ring – Pump Pressure Regulator	33	3007204	•	•		Manual Air Shutter	
9	3007202	•	•	Regulator Screw		3007207	•			Air Intake Housing	
10	C7010002	•	•	O-Ring – Pump Cover (3007162)	34	3007208	-	•		Air Intake Housing	
11	3005719	•	•	Pump Screen	35	3005844	•	•		Capacitor 12.5µF	
12	3006925	•	•	Valve Stem	36	3005708	•	•	Fan		
13	3007203	•	•	Valve Stem Plate		C6950050	•	•		Acoustic Liner	
	3007203	•	•		37	3007320	•			Acoustic Liner	
14	3007029	•	•	O-Ring - Valve Stem Upper			•	•			
15	3007156		•	O-Ring - Valve Stem Lower	38	3007221 3007222	•	•		Chassis Front Plate Chassis Front Plate	
16 17	3007268	•	•	Nozzle Outlet Fitting Crushable Metal Washer 5/8" ID		3001222		-	_	UNASSIS FIUNIL FIELE	
	3007087 3002278	•	•	Primary Control Sub-Base						OPTIONAL	
18	3002278	•			40	0700400	2		-	OPTIONAL	
19			٠	Coil U-Bracket and Knurled Nut	49	C700103		•	٠	Amulet – Cerafelt Sleeve Kit	
20	3002279	•	•	Coil	50	C700108		•	•	AL1008 24V Switching relay kit	
21	3007802	•	٠	Pump	50	C583001		•	٠	AL1008 24V Switching relay	
22	3000443	•	•	Pump Drive Key	50	C700108	4	•	•	AL1009 Post purge device kit	
23	3005843	•	•	Motor 120VOLT 60Hz							
24	3007315	•		Air Tube Cover			-				
	3007316		٠	Air Tube Cover	51	2623141		٠	•	Capillary port plug	
25	3002280	•	•	Photocell	52	3000932	2	•	٠	Adjustable Steel Flange	
		1	SBI	COMBUSTION HEAD					RI		
40	3948876	•		VSBT Combustion Head 3"	40	3948873		•		Short Combustion Head 6" (271T1)	
-	3948976		•	VSBT Combustion Head 3"		3948973			•	Short Combustion Head 6" (271T1)	
41	3006968	•		Turbulator Disc	41	3006968		•		Turbulator Disc	
	3006977		•	Turbulator Disc		3006977			•	Turbulator Disc	
42	3006966	•	•	Electrode Support	42	3006966		•	•	Electrode Support	
43	3006965	•	•	Nozzle Adapter	43			•	•	Nozzle Adapter	
44	3008627	•		Nozzle Oil Tube	44	3006969	)	•		Nozzle Oil Tube – Short	
	3008629		•	Nozzle Oil Tube							
		+	<u> </u>			3006973	3		٠	Nozzle Oil Tube – Short	
45	3008633	•		Regulator Assembly		3006973 3006324	3	•		Regulator Assembly – Short	
45	3008634		•	Regulator Assembly Regulator Assembly	45	3006973 3006324 3006323	3 1 3		•	Regulator Assembly – Short Regulator Assembly – Short	
	3008634 3008630	•	•	Regulator Assembly Regulator Assembly Electrode Assembly	45	3006973 3006324 3006323 3006330	3  -  3  )	•	•	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short	
46	3008634 3008630 3008631	•	•	Regulator Assembly Regulator Assembly Electrode Assembly Electrode Assembly	45 46	3006973 3006324 3006323 3006330 3006330	3 1 3 ) )	•	•	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short	
	3008634 3008630 3008631 3005869		•	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Assembly         Electrode Porcelain	45	3006973 3006324 3006323 3006330 3006329 3006329	3 4 3 ) )	•	•	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain	
46 47	3008634 3008630 3008631 3005869 3008623	•	•	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only	45 46 47	3006973 3006324 3006323 3006330 3006329 3006329 3005869 3007592	3 1 3 ) ) ) ) 2	•	•	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only	
46	3008634 3008630 3008631 3005869	•	•	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only         Air Tube only	45 46	3006973 3006324 3006323 3006330 3006329 3006329	3 4 3 0 0 0 2 4	•	•	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only Air Tube only	
46 47	3008634 3008630 3008631 3005869 3008623 3008626	•	•	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only         Air Tube only         COMBUSTION HEAD	45 46 47	3006973 3006324 3006323 3006330 3006329 3005869 3007592 3007594	3 4 3 ) ) ) 2 4	• • •	•	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only Air Tube only COMBUSTION HEAD	
46 47 48	3008634 3008630 3008631 3005869 3008623 3008626 3948877	•	•	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only         Air Tube only         COMBUSTION HEAD         Combustion Head 8 7/8"	45 46 47 48	3006973 3006324 3006323 3006329 3006329 3005869 3007592 3007594 3948874	3 1 3 0 0 0 1 1 1	•	• • •	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only Air Tube only COMBUSTION HEAD Long Combustion Head 10" (271T2)	
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46 47 48 40	3008634 3008630 3008631 3005869 3008623 3008626 3948877 3948975 3006968	•	· · · · · ·	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only         Air Tube only         COMBUSTION HEAD         Combustion Head 8 7/8"         Turbulator Disc	45 46 47 48 48	3006973 3006324 3006323 3006330 3006329 3005869 3007592 3007594 3948874 3948874 3948974	3     -       3     -       3     -       3     -       9     -       9     -       9     -       9     -       9     -       9     -       1     -       1     -       3     -	• • •	• • •	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only Air Tube only COMBUSTION HEAD Long Combustion Head 10" (271T2) Long Combustion Head 10" (271T2) Turbulator Disc	
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46 47 48 40 40 41 42	3008634 3008630 3008631 3005869 3008623 3008626 3948877 3948975 3006968 3006977 3006966 3006965 3008790 3008628	87 • •	· · · · · ·	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only         Air Tube only         Air Tube only         OMBUSTION HEAD         Combustion Head 8 7/8"         Turbulator Disc         Turbulator Disc         Electrode Support         Nozzle Adapter         Nozzle Oil Tube         Nozzle Oil Tube	45 46 47 48 40 40 41	3006973 3006324 3006323 3006329 3005869 3007592 3007594 3007594 3006968 3006966 3006966 3006977 3006966 3006974	3       4       3       0       1	• • • • • •	• • • •	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only Air Tube only COMBUSTION HEAD Long Combustion Head 10" (271T2) Long Combustion Head 10" (271T2) Turbulator Disc Turbulator Disc Electrode Support Nozzle Adapter Nozzle Oil Tube – Long Nozzle Oil Tube – Long	
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46 47 48 40 41 42 43	3008634 3008630 3008631 3005869 3008623 3008626 3948877 3948975 3006968 3006965 3006965 3008965 300828 3008635	87 • •	· · · · · ·	Regulator Assembly         Regulator Assembly         Electrode Assembly         Electrode Porcelain         Air Tube only         Air Tube only         Air Tube only         Air Tube only         Combustion Head 8 7/8"         Combustion Head 8 7/8"         Turbulator Disc         Turbulator Disc         Electrode Support         Nozzle Adapter         Nozzle Oil Tube         Regulator Assembly         Regulator Assembly	45 46 47 48 40 40 41 42 43	3006973 3006324 3006323 3006329 3005869 3005869 3007594 3007594 3007594 3006966 3006966 3006970 3006966 3006974 3005876	3       4       5       6       7       6       7       7       8	• • • • • • • •	• • • •	Regulator Assembly – Short Regulator Assembly – Short Electrode Assembly – Short Electrode Assembly – Short Electrode Porcelain Air Tube only Air Tube only COMBUSTION HEAD Long Combustion Head 10" (271T2) Long Combustion Head 10" (271T2) Turbulator Disc Turbulator Disc Electrode Support Nozzle Adapter Nozzle Oil Tube – Long Regulator Assembly – Long Regulator Assembly – Long	
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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)	Burner Start-up Info (GAS)
Nozzle Info:	Gas Supply Pressure:
Pump Pressure:	Pump pressure:
Turbulator Air Setting: setting:	Air Setting: Head Setting:
Draft Draft Overfire: breech:	Draft Draft Draft
CO <sub>2</sub> : CO: O <sub>2</sub> :	CO <sub>2</sub> : CO: O <sub>2</sub> :
Smoke density:(Bacharach)	Manifold pressure:
Single Two Lines:	lonization Reading Input (µAd.c.): BTU/Hr:

\* 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



35 Pond Park Road Hingham, MA 02043 Phone 781-749-8292 Toll Free 800-992-7637 Fax 781-740-2069 2165 Meadowpine Blvd Mississauga, ON L5N 6H6 Phone 905-542-0303 Toll Free 800-387-3898 Fax 905-542-1525

www.riellousa.com

www.riellocanada.com

Technical Support Hotline 1-800-4-RIELLO 1-800-474-3556