

MODEL F20 INSTALLATION MANUAL

RIELLO 40 SERIES

OIL BURNERS

RETROFIT APPLICATIONS ONLY

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.

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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	Α	В	С	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 to 896 kBTU/h; 143.5 to 262.5 kW; 123,480 to 225,790 kcal/h PUMP PRESS: Low fire:100 to 125psi (105 factory);High fire:130 to 200psi (175 factory) VOLTAGE (Single Phase): 120V 60 Hz (+10% -15%)

ABSORBED ELECTRICAL POWER: 516 Watts MOTOR (rated): 3250 rpm Run Current 4.3 AMP CAPACITOR: 16 Microfarads 260V PRIMARY CONTROL: RIELLO 530SE/C IGNITION TRANSFORMER: 8kV 16 mA

MOUNTING FLANGE DIMENSIONS

MODEL F20	Α	В	С	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.

- 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

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 (\bullet) 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



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.



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.



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BURNER SET-UP CHART

	1	2 3		4		5	
ACTUAL FIRING RATE ±5%		NOZZLE SIZE	PUMP PRESSURE		TURBULA- TOR	AIR D SE	DAMPER TTING
GPH	kg/h	GPH	PSI	BAR	SETTING	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.



SPARE PARTS LIST

NO.	CODE	DESCRIPTION
1	3007235	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

NO.	CODE	DESCRIPTION
35	3005851	Universal Mounting Flange
36	3005852	Mounting Gasket
37	3006499	Hydraulic Jack
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

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

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.

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