

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 07-1334	Issue Date:	CBL: 013 H001001
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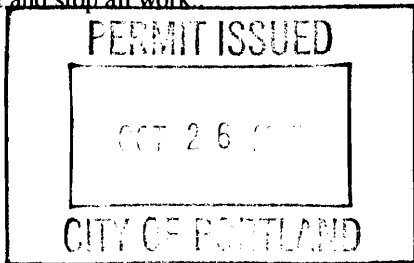
Location of Construction: 28 MARION ST	Owner Name: HERMANN ZARRA	Owner Address: 28 MARION ST	Phone:
Business Name:	Contractor Name: Mike MacDonald Heating Service	Contractor Address: 87 Penn Ave South Portland	Phone 2073187079
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: B-4

Past Use: 3 unit Residential	Proposed Use: 3 unit Residential - install new 556 rinnai on floor in attic <i>legal use - 3 dv. (per assessor's pc 1957 cad)</i>	Permit Fee: \$110.00	Cost of Work: \$8,200.00	CEO District: 1
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <i>N/A</i>	INSPECTION: Use Group: <i>R2</i> Type: <i>SB</i> <i>IBC 2003</i> <i>ST MC G4S R29S</i>	

Proposed Project Description: install new 556 rinnai on floor in attic	Signature: <i>Greg Carr</i>	Signature: <i>Jm 10/25/07</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: Idobson	Date Applied For: 10/18/2007	Zoning Approval
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.



Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland	<input type="checkbox"/> Variance	<input checked="" type="checkbox"/> Not in District or Landmark
<input type="checkbox"/> Wetland	<input type="checkbox"/> Miscellaneous	<input type="checkbox"/> Does Not Require Review
<input type="checkbox"/> Flood Zone	<input type="checkbox"/> Conditional Use	<input type="checkbox"/> Requires Review
<input type="checkbox"/> Subdivision	<input type="checkbox"/> Interpretation	<input type="checkbox"/> Approved
<input type="checkbox"/> Site Plan	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved w/Conditions
Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	<input type="checkbox"/> Denied	<input type="checkbox"/> Denied
Date: <i>10/23/07</i>	Date:	Date: <i>ABW</i>

CERTIFICATION

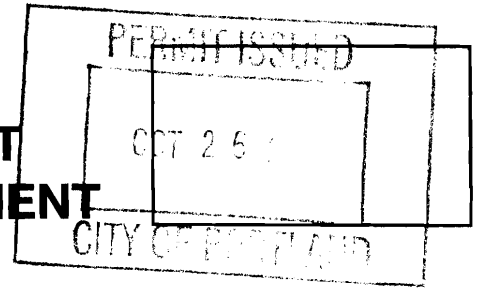
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 28 MACDONALD ST 13H 001 Use of Building Apartment Date 10-2009
 Name and address of owner of appliance ZADIA HERMANN 28 MACDONALD ST #3 PORTLAND ME 04101
RH FE-556 FA #
 Installer's name and address MIKE MACDONALD, LLC 87 PENN AVE SOUTH PORTLAND, ME 04106
 Telephone 207-313-7079

Location of appliance:

- Basement Floor
 Attic Roof

Type of Fuel:

- Gas Oil Solid

Appliance Name: 556 RANGE

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
 Solid Fuel # _____
 Oil # _____
 Gas # PNT5249
 Other _____

Type of Chimney:

- Masonry Lined
 Factory built _____
 Metal
 Factory Built U.L. Listing # _____
 Direct Vent
 Type _____ UL# _____

Type of Fuel Tank

- Oil
 Gas Natural

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 8200

Permit Fee: \$ 110.00

Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: _____

See attached letter or requirement

Signature of Installer

[Signature]
 Inspector's Signature _____ Date Approved _____

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

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Business Name:	Contractor Name: Mike MacDonald Heating Service	Contractor Address: 87 Penn Ave South Portland	Phone (207) 318-7079
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: 3 unit Residential - install new 556 rinnai on floor in attic	Proposed Project Description: install new 556 rinnai on floor in attic
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Dept: Zoning	Status: Approved	Reviewer: Ann Machado	Approval Date: 10/23/2007	Note:	Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved with Conditions	Reviewer: Tom Markley	Approval Date: 10/25/2007	Note: 1) The installation must comply with the State of Maine Gas Regulations. 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.	Ok to Issue: <input checked="" type="checkbox"/>
Dept: Fire	Status: Not Applicable	Reviewer: Capt Greg Cass	Approval Date:	Note:	Ok to Issue: <input type="checkbox"/>



**HOME OWNER / INSTALLER
FOR YOUR SAFETY**
THIS MANUAL MUST BE READ IN ITS
ENTIRETY BEFORE OPERATING HEATER

RHFE-556FA III / FTRA III

ENERGYSAVER

GAS DIRECT VENT WALL FURNACE

Owner's Operation and Installation Manual



WARNING: IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

WHAT TO DO IF YOU SMELL GAS

- DO NOT TRY TO LIGHT ANY APPLIANCE.
- DO NOT TOUCH ANY ELECTRICAL SWITCH; DO NOT USE ANY PHONE IN YOUR BUILDING.
- IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE. FOLLOW THE GAS SUPPLIER'S INSTRUCTIONS.
- IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.

INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY OR THE GAS SUPPLIER.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the Rating Plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

Rinnai

**INSTALLER: MUST LEAVE MANUAL WITH UNIT AFTER INSTALLATION.
OWNER: RETAIN THIS MANUAL SAFELY, FOR FUTURE REFERENCE.**

TECHNICAL DATA





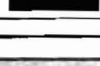

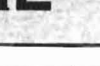
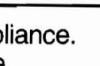
WEIGHT	DIMENSIONS	GAS RATE (BTU/h)			
		INPUT		OUTPUT	
51 Lbs.	Width: 29 1/2" Height: 21 13/16" Depth: 9 13/16"	NG	LP	NG	LP
		LOW 8,200	8,200	LOW 6,640	6,640
		HIGH 21,500	20,700	HIGH 17,420	16,770

Burner Orifices:

RHFE-556FA III/FTRA III-P use: Orifice part #AU129-210×02-0.85(0.033")

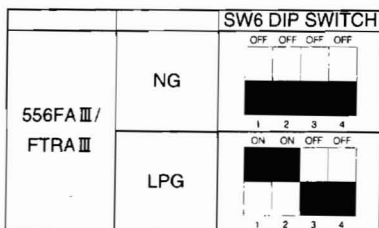
RHFE-556FA III/FTRA III-N use: Orifice part #AU129-210×02-1.13(0.044")

GAS CONVERSION SPECIFICATIONS

MODEL	GAS TYPE	DIAMETER OF ORIFICE(mm)	PRIMARY DAMPER	SECONDARY DAMPER	MANIFOLD DIFFERENTIAL PRESSURE (W.C.)		DIP SWITCH POSITION
					HI	LO	
RHFE-556FA III	LPG	φ 0.85	556F-209-15	556F-208-5 (φ 2.5×15)	4.5"W.C.	0.8"W.C.	ON  OFF 
RHFE-556FA III	NG	φ 1.13	556F-209-7	556F-208-7 (33×47hole)	3.8"W.C.	0.7"W.C.	ON  OFF 
RHFE-556FTRA III	LPG	φ 0.85	556F-209-15	556F-208-5	4.5"W.C.	0.8"W.C.	ON  OFF 
RHFE-556FTRA III	NG	φ 1.13	556F-209-7	556F-208-7	3.8"W.C.	0.7"W.C.	ON  OFF 

GAS PRESSURE SETTING PROCEDURE

1. Check and ensure SW6 Dip Switches are correct for the gas type for which the appliance is to be used. (Refer to diagram below.)



2. There are two test points, one on the manifold, one on the gas control assembly. Connect pressure gauge to both test points. Using an electronic manometer, connect the ⊕ side to the manifold test point. (Refer to data plate for pressure.)

GAS SUPPLY PRESSURE

	NATURAL	PROPANE
MINIMUM	5"W.C.	8"W.C.
MAXIMUM	10.5"W.C.	13"W.C.

3. Press the ON/OFF button to operate the appliance.
4. With appliance operating, press SW5 once.
5. Press SW4 to operate appliance on forced low. Adjust the setting to the correct pressure using the "▲" and "▼" buttons on the control panel.
6. Press SW4 again to lock in the selected setting.
7. Press SW3 to operate appliance on forced high. Adjust the setting to the correct pressure using the "▲" and "▼" buttons on the control panel.
8. Press SW3 again to lock in the selected setting.
9. Press SW5 once to return heater to normal operation.
10. Press the ON/OFF button to turn the appliance off.
11. Remove the gauge from the test points and replace the test point screws.
12. Test for gas escapes.

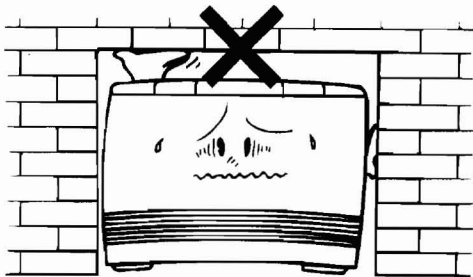
- The minimum and maximum inlet gas supply pressures are for the purpose of input adjustment.
- Heaters may be converted from one gas to another using Rinnai conversion kits. (See page 62)

LOCATION / CLEARANCES

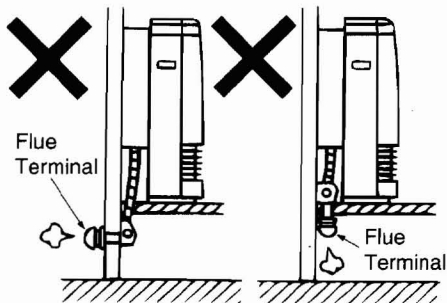
When positioning the heater the main points governing the location are:

1. Flueing
2. Warm air distribution

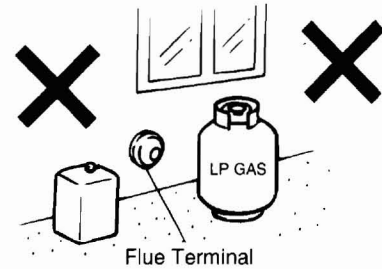
This heater is not designed to be build in.



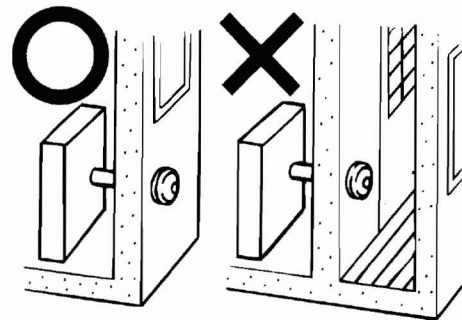
The flue is not designed to be positioned under floors, or below the level of the heater.



The flue terminal should be positioned away from flammable materials.



Do not flue into natural draught flues or fireplaces, this unit can only be used with one of the five types of Rinnai flue kits. Do not flue unit into other rooms. Flue terminal must be outside.



Flue may be positioned directly under opening windows, with a minimum clearance of 9" (230mm).

FLUE SIZES:

5 Flue lengths are available.

- S flue walls 3"~4 1/2" (75~115mm)
- A flue walls 4 1/2"~9 1/2" (115~240mm)
- B flue walls 9 1/2"~15 3/4" (240~400mm)
- C flue walls 15 3/4"~23 5/8" (400~600mm)
- D flue walls 23 5/8"~31 1/2" (600~800mm)

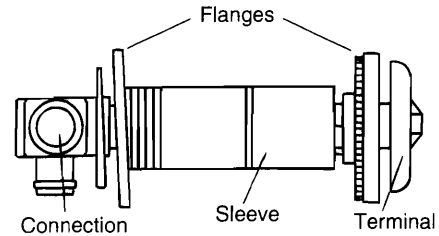
SLEEVE AND MANIFOLD INSTALLATION

METHOD FOR STANDARD WALLS

1. Disassemble Manifold from Sleeve.

The flue consists of 3 parts, sleeve, inside connectors and tube, outside terminal; (dis-assembly by pulling hard on outside terminal and inner connections, then pull sleeve off outer terminal.)

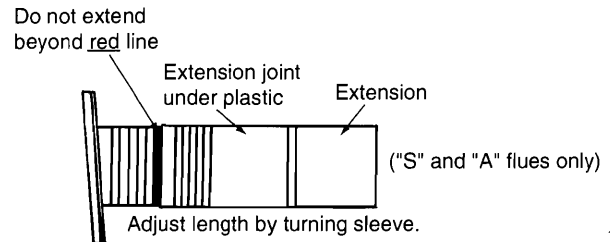
NOTE: Clearance to combustibles for terminal assembly sleeve and flanges is 0".



2. Adjustment of Sleeve Length.

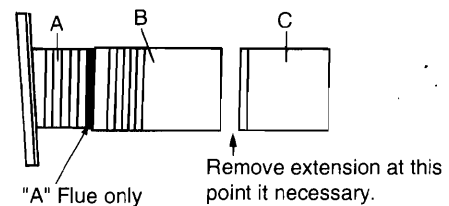
Measure wall thickness through previously drilled 3 1/8" (80mm) hole.

End of sleeve should protrude 3/16"~3/8" (5~10mm) from outside wall. Adjust sleeve length to wall thickness plus 3/16"~3/8" (5~10mm). (Sleeve is threaded for adjustment.) Do not extend beyond red line.



3. For S and A flue only.

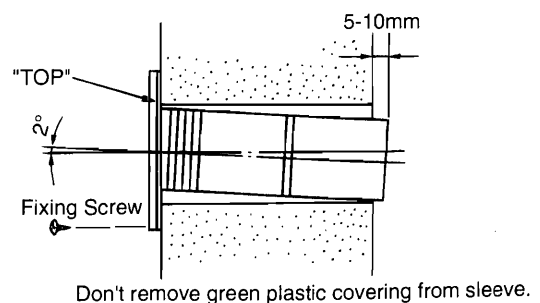
Depending on flue set and wall thickness extension piece "C" may need to be removed. Cut plastic, remove extension, then follow instruction 2. This applies to "S" and "A" flues only. There is no extension on other flues, they can be fully adjusted by turning the threaded section.



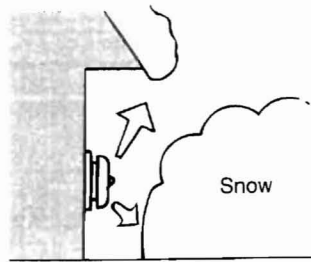
4. Fixing Sleeve.

Fix to the wall, using the 3 screws provided.

NOTE: The flange is marked "TOP", sleeve must be fitted with this mark **Up**. Check sleeve protrudes 3/16"~3/8" (5~10mm) on the outside.



SNOW AREAS

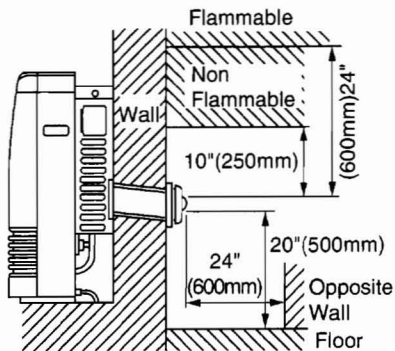


In areas subject to heavy snowfall, keep snow clear of flue terminal at all times.

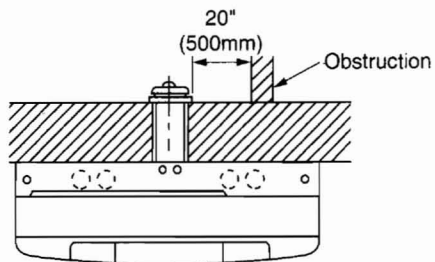
STANDARD INSTALLATION OF FLUE MANIFOLD.

Diagram below shows minimum clearances and distances from obstructions.

Also check local regulations.

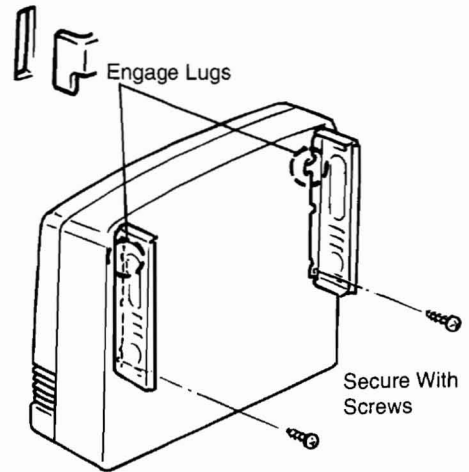


Side Clearances



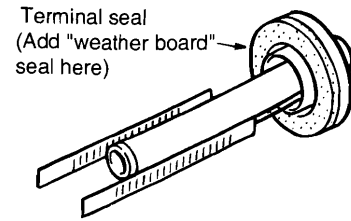
FIT BACK COVERS (SIDES ONLY)

Fit back covers (sides only) as shown below.



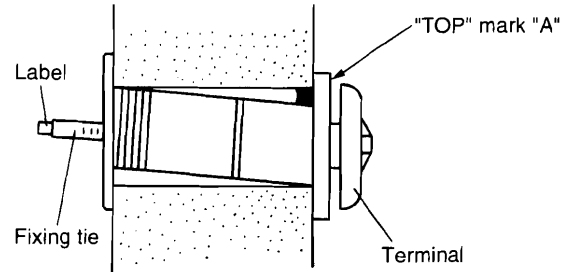
5. Check rubber seal is in place on terminal.

*For weather board walls, add spare rubber seal provided to compensate for weather board angle.



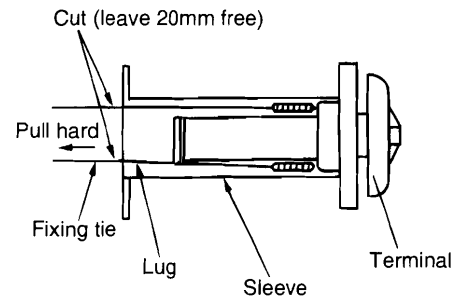
6. Installation of Terminal

From outside, insert terminal into sleeve with the "A" mark at the top. Left hand side fixing tie is marked "LEFT" (from inside).



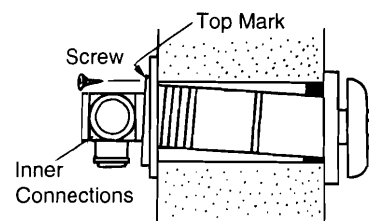
7. Attached Ties

Pull hard on left and right hand side ties, clip ties over lugs inside sleeve. You should be able to pull ties 2 or 3 slots past the starting point. Cut the ties, leaving about 3/4" (20mm) past the lugs. Bend ties so they are parallel with the wall.

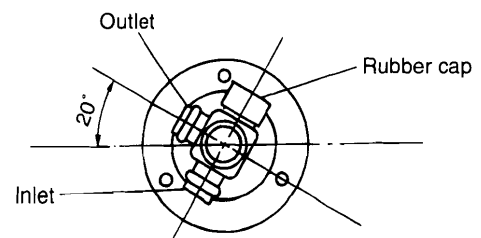


8. Insert Inner Connection Assembly.

Push assembly into the terminal tube, make sure "TOP" mark is uppermost. Fix with 3 screws provided.



9. Manifold can still be turned after attaching.

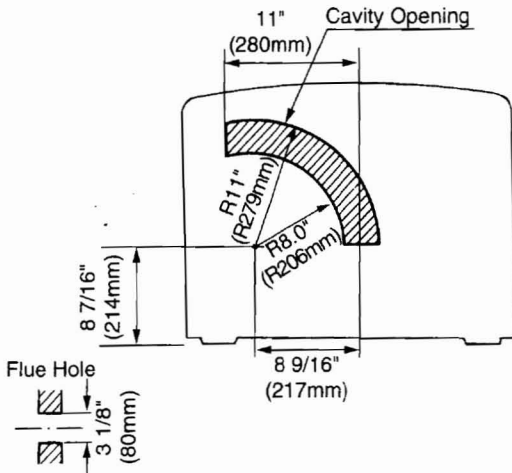


VENT LOCATION

FLUE MANIFOLD POSITION

Center of hole for flue manifold can be drilled anywhere within the shaded area. (To avoid studs, etc.)

FOR WEATHERBOARD WALLS DRILL THROUGH CENTER OF WEATHER BOARD FROM OUTSIDE, THEN DRILL FROM INSIDE THROUGH PLASTER-BOARD.



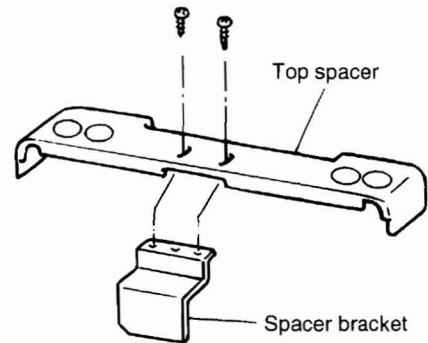
Before drilling the flue hole, check for water and gas pipes as well as electric cables. Use a 3 1/8" (80mm) drill for hole through wall.

WALL MOUNTING BRACKETS

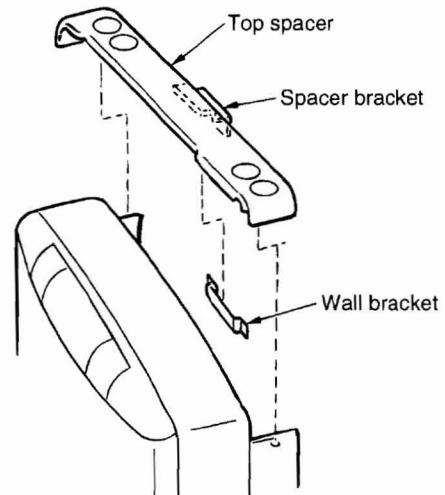
Place top back spacer in position. Mark the position of the top edge of the top spacer on the wall. Move the heater away from the wall. Mark center lines 1 1/8" (30mm) down from the top edge mark, and 1 9/16" (40mm) in front the left and right hand sides of the top spacer. Attach wall brackets at the marked position.

FITTING TOP SPACER + WALL CLIP

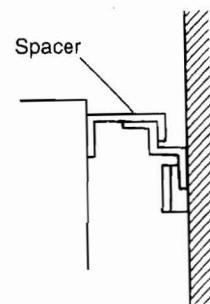
Tighten all screws.



SECURE HEATER TO WALL



Replace top spacer, clipping the spacer into the wall brackets at the same time as attaching it to the heater. Secure top spacer with the screws provided. THE HEATER IS NOW SECURED TO THE WALL.



Replace fan filter.