

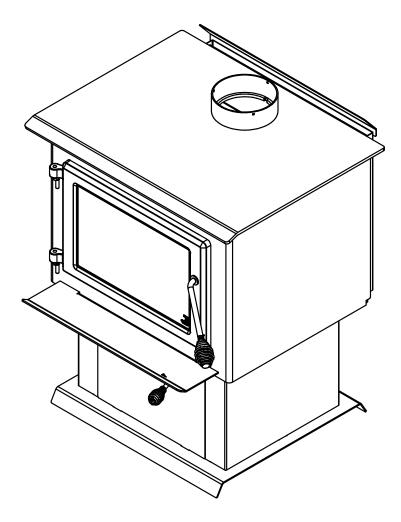
Wood Stove Owner's Manual

Part 2 of 2

FW2900

INSTALLATION AND OPERATION REQUIREMENTS

(CB00026 model)



US Environmental Protection Agency phase II certified wood stove compliant with 2020 cord wood standard



Safety tested according to CAN/ULC S627, UL 1482 and UL 737 standards by an accredited laboratory.





CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN LOCAL AREA.

READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS WOOD STOVE. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

READ AND KEEP THIS MANUAL FOR REFERENCE

| Dealer: | |
|----------------|--|
| - | |
| Installer: | |
| - | |
| Phone Number: | |
| Serial Number: | |

ONLINE WARRANTY REGISTRATION

If the unit requires repairs during the warranty period, proof of purchase must be provided. The purchase invoice must be kept. The date indicated on it establishes the warranty period. If it can not be provided, the warranty period will be determined by the date of manufacture of the product. It is also highly recommended to register the warranty online at

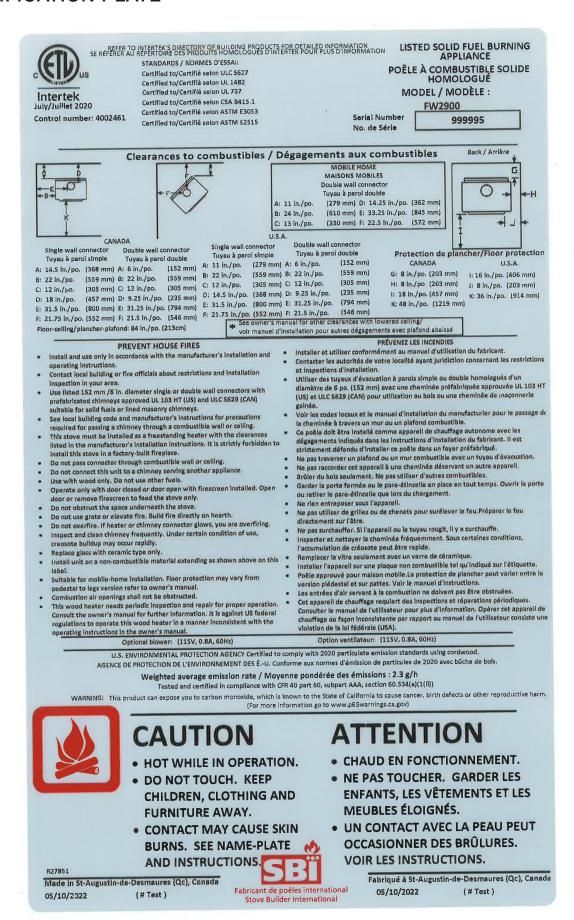
https://www.century-heating.com/en/warranty/warranty-registration/

Registering the warranty will help to quickly find the information needed on the unit.

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1. CERTIFICATION PLATE



2. General Information

2.1 Performances

Values are as measured per test method, except for the recommended heating area, firebox volume, maximum burn time and maximum heat output.

| Model | FW2900 (CB00026) | |
|--|---|-------|
| Type of combustion | Non catalytic | |
| Fuel Type | Dry Cordwood | |
| Recommended heating area (sq. ft.)1 | 500 to 2,100 ft ² (47 to 19 | 5 m²) |
| Overall firebox volume ² | 2.4 ft ³ (0.068 m ³) | |
| EPA loading volume | 1.95 ft ³ (0.055 m ³) | |
| Maximum burn time ¹ | 8 hours | |
| Maximum heat output (dry cordwood) ³ | 75,000 BTU/h (22 kW) | |
| Overall heat output rate (min. to max.) ² | 14,200 BTU/h to 44,500 BTU/h (4.16 kW to 13.04 kW) | |
| Average overall efficiency ³ (Dry cordwood) | 72 % (HHV) ⁵ 77 % (LHV) ⁶ | |
| Optimum overall efficiency ⁷ | 79 % | |
| Optimum heat transfer efficiency ⁸ | 76 % | |
| Average particulate emissions rate ⁹ | 2.3 g/h (EPA / CSA B415.1-10) ¹⁰ | |
| Average CO ¹¹ | 69 g/h | |

¹ Recommended heating area and maximum burn time may vary subject to location in home, chimney draft,heat loss factors, climate, fuel type and other variables. The recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature in the designated area in case of a power failure.

² The overall firebox calculation is an approximation and is not intended to be used for loading. This volume includes a buffer zone to allow an easier fuel insertion, prevent ash spillage and allow the air wash to work properly.

³ The maximum heat output (dry cordwood) is based on a loading density varying between 15 lb/ft³ and 20 lb/ft³. Other performances are based on a fuel load prescribed by the standard. The specified loading density varies between 7 lb/ft³ and 12 lb/ft³. The moisture content is between 19% and 25%.

⁴ As measured per CSA B415.1-10 stack loss method.

⁵ Higher Heating Value of the fuel.

⁶ Lower Heating Value of the fuel.

⁷ Optimum overall efficiency at a specific burn rate (LHV).

⁸ The optimum heat transfer efficiency is for the low burn rate and represents the appliance's ability to convert the energy contained in the wood logs into energy transferred to the room in the form of heat and does not take into account the chemical losses during combustion.

⁹ This appliance is officially tested and certified by an independent agency.

¹⁰ Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii) and ASTM E3053-17. Based on ALT-125 sent by EPA on February 28th, 2018.

¹¹ Carbon monoxide.

2.2 Specifications

| Recommended log length | 16 in (406 mm) east-west |
|--|------------------------------------|
| Maximum log length ¹ | 20 in (508 mm) east-west |
| Flue outlet diameter | 6 in (150 mm) |
| Recommended connector pipe diameter | 6 in (150 mm) |
| Type of chimney | ULC-S629, UL 103 HT (2100 °F) |
| Minimum chimney height | 12 feet |
| Baffle material | Vermiculite |
| Approved for alcove installation | Yes |
| Approved for mobile home installation ² | Yes |
| Type of door | Simple, glass with cast iron frame |
| Type of glass | Ceramic glass |
| Blower | Optional (up to 100 CFM) |
| Particulate emission standard ³ | EPA / CSA B415.1-10 |
| USA standard (Safety) | UL 1482, UL 737 |
| Canada standard (Safety) | CAN/ULC-S627 |

¹ North-south: ends of the logs visible, East-west: sides of the logs visible.

² Mobile homes (Canada) or manufactured homes (USA): The US Department of Housing and Urban Development describes "manufactured homes" better known as "mobile homes" as follows; buildings built on fixed wheels and those transported on temporary wheels/axles and set on a permanent foundation. In Canada, a mobile home is a dwelling for which the manufacture and assembly of each component is completed or substantially completed prior to being moved to a site for installation on a foundation and connection to service facilities and which conforms to the CAN/CSA-Z240 MH standard.

³ Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1(ii) and ASTM E3053-17. Based on ALT-125 sent by EPA on February 28th, 2018.

2.3 Dimensions

2.3.1 Stove Dimensions

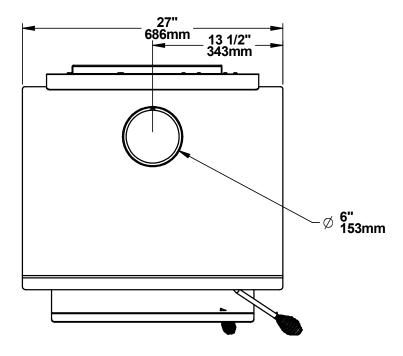


Figure 1: Top View

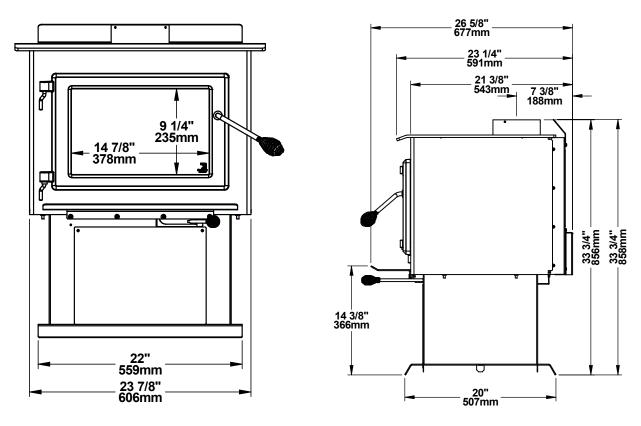


Figure 2: Front View

Figure 3: Side View

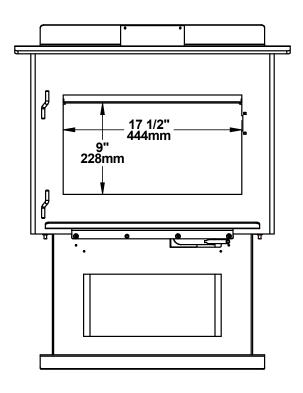


Figure 4: Door Opening

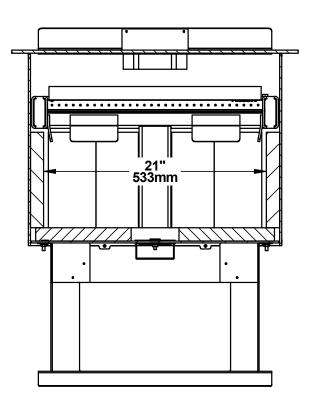


Figure 5: Front View - Combustion Chamber

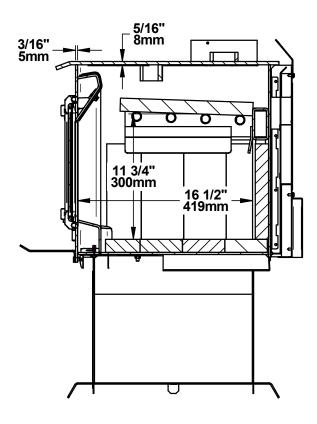


Figure 6: Side View - Combustion Chamber

2.4 PA Loading Procedure

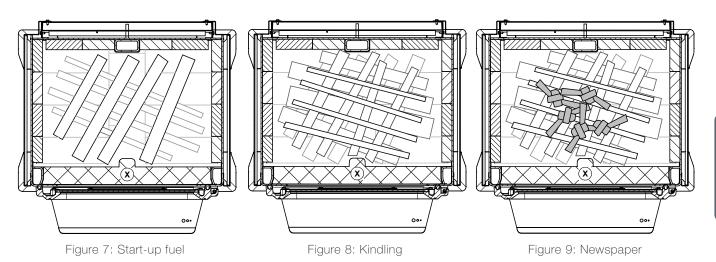
The best loading method for efficient and clean combustion with this fireplace is the EPA loading method. The images below show the space in the firebox where the logs are to be placed. It is important to always respect this space and not to put logs in the grid area marked with an X. The marked area is defined by the space between the glass and primary air channel. Leave enough space between the logs for good air circulation. Using more than the usable firebox volume for loading wood will result in poor combustion. The Usable firebox volume of 1.95 ft³ shown below is the one used during EPA emissions certification. The log length recommended for this stove is 16 inches and the EPA testing were done with log length of 16 in. The fuel specie used for the EPA certification was beech.

2.4.1 Air control

The air control is located underneath the ash shelf. To open the air control, push the air control handle completely to the left (High). This will increase the burn rate. To close the air control, push the air control handle completely to the right. This will permit to achieve the lowest possible burn rate.

2.4.2 High burn rate (primary air control open)

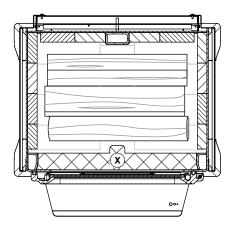
For Kindling and Start-up fuel configuration refer to the pictures below. Split the start-up fuel log into 8 pieces. Crisscross at 45 degrees the 8 pieces on the brick on 2 rows and leaving some space between each wood pieces. Crisscross at 45 degrees the kindling on the top of the start-up fuel on 3 rows, from biggest to smallest. The kindling is made of between 10-16 small pieces that are about 10% of moisture content. Place 5 newspaper sheets on top of the kindling. Light up the paper and let the door at 90 degrees between one minute and one minute and 30 seconds, then close the door. Air control is fully open.

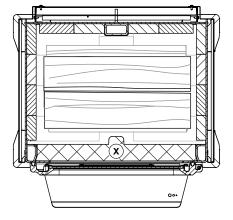


When there are only faint flames remaining and most of the wood is turned into coal, break When there are only faint flames remaining and most of the wood is turned into coal, break ashes and level coal bed. Close the door.

Add High Fire load in an East-West configuration. Put 3 first pieces on the coal bed without air space between them. Leave about 1 inch of air space between the rear firebrick and the first piece. See Figure 10 and 11 for an example of high burn load inside the firebox. The front (3rd) piece should stand off on the steel andirons by approximately 1-2 inches. The 2 other pieces

should be added on top of the first 3, stacked in the middle, in an East-West orientation. Let the door open at 90 degrees between one minute and one minute and 30 seconds. Close the door, start the blower at maximum speed, and let burn until the weight is down to target.





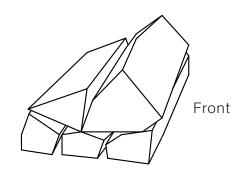


Figure 10: Position of the bottom pieces (High burn)

Figure 11: Position of the two top pieces (High burn)

Figure 12: Example high burn load (side view)

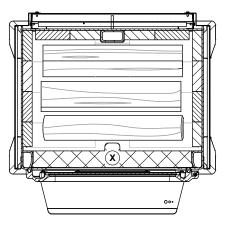
For optimal loading of a high fire, take small to medium size fuel pieces (between 2- and 3-inches cross section dimensions approximately) on the bottom and use medium to large size fuel pieces (3.5 to 4.5 inches of cross section dimensions approximately) on top. To make sure combustion is equal, put the biggest piece on top of the first three, at the front of the firebox. See an example of high burn load in the Figure 12 above.

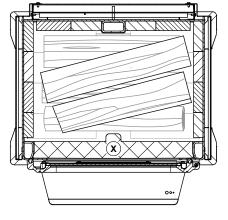
2.4.3 Low burn rate

After the high fire, if there is visible yellow flame, close the air control. When the charcoal bed weight is between 14 and 17% of the low fire load weight, turn off the blower, open the door, stir the coals slightly, just enough to have a level plane coal bed, and let the door remain slightly open for 1 minute before loading the low burn test fuel.

For the loading, put 3 first pieces on the coal bed in an East-West orientation. Leave approximately 1 inch to 2 inches of air space between the rear firebrick and the first piece. There should be air space between all pieces. The front (3rd) piece may contact the steel andirons. The 2 top pieces (fourth and fifth) should be added on top of the first 3, slightly angled (20° from the 3 wood pieces at the bottom). The distance between the logs should be approximately 1 inch. See Figure 13 and 14 for an example of low burn load inside the firebox.

For optimal low fire load, use medium to large size fuel pieces (between 4- and 5.5-inches cross section dimensions approximately) on the bottom and use small to medium size fuel pieces (2.5 to 4 inches cross section dimensions approximately) on top. To make sure combustion is equal, put the smallest piece on top of the first three, at the back of the firebox (see Figure 15 for an example of low burn load).





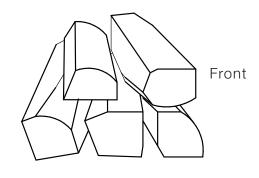


Figure 13: Position of the bottom pieces (Low burn)

Figure 14: Position of the two top pieces (Low burn)

Figure 15: Example low burn load (side view)

Let the door ajar at 90° until the flames roll on top of the fuel (between 2:00 and 4:00 minutes) and then close the door with the primary air control open. See picture below for rolling flame:



Close the primary air control by small increments (ex: 1/16 of an inch), from $\frac{1}{2}$ " to fully closed, between 4 and 15 minutes after the loading period. Before closing further, make sure the flame intensity is increasing or stable. Close the air control completely. Turn ON the blower at maximum speed.

2.4.4 Medium burn rate

After the high fire, if there is visible yellow flame, close the air control. When the charcoal bed weight is between 14 and 17% of the medium fire load weight, turn off the blower, open the door, stir the coals slightly, just enough to have a level plane coal bed, and let the door remain slightly open for 1 minute before loading the medium burn test fuel.

For the loading, put 3 first pieces on the coal bed in an East-West orientation. Leave about 1 to 2 inches of air space between the rear firebrick and the first piece. The front (3rd) piece may contact the steel andirons. The 2 top pieces (fourth and fifth) should be added on top of the first 3, slightly angled (20° from horizontal, top view). The distance between the logs should be approximately 1 inch. See Figure 16 and 17 for an example of medium burn load inside the firebox.

For optimal medium fire load, use medium to large size fuel pieces (between 4- and 5.5-inches cross section dimensions approximately) on the bottom and use small to medium size fuel pieces (2.5 to 4 inches cross section dimensions approximately) on top. To make sure combustion is

equal, put the smallest piece on top of the first three, at the back of the firebox (see Figure 18 for an example of medium burn load).

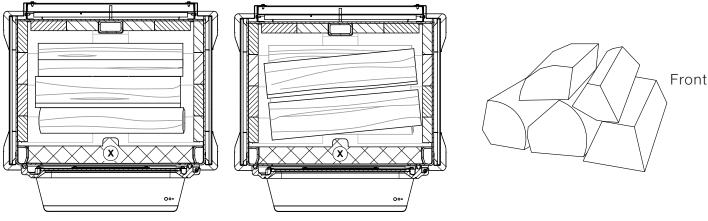


Figure 16: Position of the bottom pieces (Medium burn)

Figure 17: Position of the two top pieces (Medium burn)

Figure 18: Example medium burn load (side view)

Let the door ajar at 90° until the flames roll on top of the fuel (between 2:30 and 5:00) and then close the door with the primary air control open. See picture below for rolling flame:



Close the primary air control by small increments (ex: 1/16 of an inch) until reaching the midpoint of air control position, between 4 and 15 minutes after the loading period. Before closing further, make sure the flame intensity is increasing or stable. Turn ON the blower at maximum speed.

3. Clearances to Combustible Material

The clearances shown in this section have been determined by tests according to procedures set out in safety standards CAN/ULC S627 (Canada), UL 1482 (U.S.A.) and UL 737 (U.S.A.). When the stove is installed so that its surfaces are at or beyond the minimum clearances specified, combustible surfaces will not overheat under normal and even abnormal operating conditions.

No part of the stove or flue pipe may be located closer to combustibles than the minimum clearance figures given.

Clearances may only be reduced by means approved by the regulatory authority.

The clearances to combustible walls may be slightly different in Canada and the U.S.A. and may also differ depending on whether single or double wall flue pipe is used. Make sure to choose the correct clearance for the stove location and type of flue pipe.

The clearances of the appliance and the flue pipes must be met individually, meaning the appliance cannot be installed closer to the combustible materials than the single or double wall pipe allows. For a safe way to reduce clearances refer to section"5. Reducing Wall and Ceiling Clearances Safely" of this manual.

3.1 Clearances

| | APPLIANCE CLEARANCES WITH SINGLE WALL PIPE CONNECTOR Canada USA | |
|---|--|--------------|
| | | |
| Α | 14 ½" (368 mm) | 11" (279 mm) |
| В | 22" (559 mm) | 22" (559 mm) |
| С | 12" (305 mm) | 12" (305 mm) |

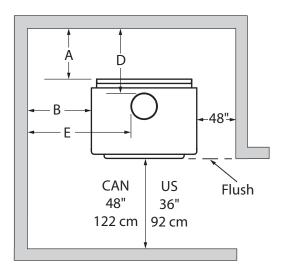
| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR Canada USA | |
|---|--|--------------|
| | | |
| Α | 6" (152 mm) | 6" (152 mm) |
| В | 22" (559 mm) | 22" (559 mm) |
| С | 12" (305 mm) | 12" (305 mm) |

If the above clearances are met, then the distances measured from the flue outlet will be:

| | DISTANCES¹ FROM PIPE CONNECTOR WITH SINGLE WALL PIPE CONNECTOR | |
|---|--|----------------|
| | Canada USA | |
| D | 18" (457 mm) | 14 ½" (368 mm) |
| E | 31 ½" (800 mm | 31 ½" (800 mm) |
| F | 21 ¾" (552 mm) | 21 ¾" (552 mm) |

| | DISTANCES¹ FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTORE | |
|---|---|----------------|
| | Canada USA | |
| D | 9 ¼" (235 mm) | 9 ¼" (235 mm) |
| E | 31 ¼" (794 mm) | 31 ¼" (794 mm) |
| F | 21 ½" (546 mm) | 21 ½" (546 mm) |

¹ The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.



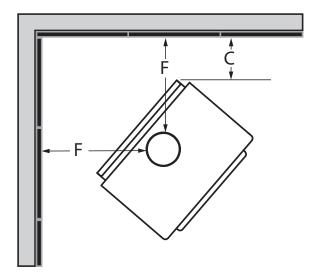


Figure 19: Clearances - Top

Figure 20: Clearances - Corner

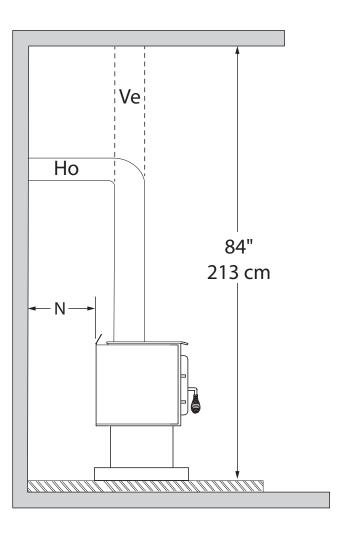


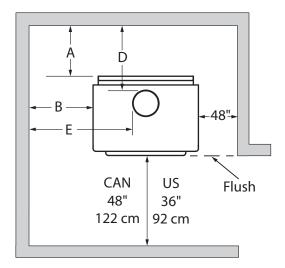
Figure 21: Clearances - Side

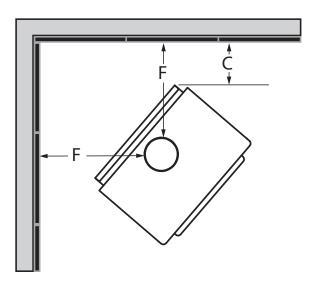
3.1.1 With Heat Shield AC027621

To reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used. Refer to the booklet in the screen options to obtain the dimensions to be respected.

| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR | |
|---|--|-------------|
| | Canada USA | |
| Α | 3" (76 mm) | 3" (76 mm) |
| В | 4" (102 mm) | 4" (102 mm) |
| С | 3" (76 mm) | 3" (76 mm) |

| | DISTANCES ² FROM DOUBLE WALL PIPE CONNECTOR | |
|---|---|----------------|
| | Canada USA | |
| D | 6 ¼" (159 mm) | 6 ¼" (159 mm) |
| E | 13 ¼" (337 mm) | 13 ¼" (337 mm) |
| F | 12 ½" (318 mm) | 12 ½" (318 mm) |





If the clearance reduction is on the same side as the door handle, position the stove at a minimum of 6 inches from the side wall (clearance B), otherwise it may be located at the clearance shown in the table above.

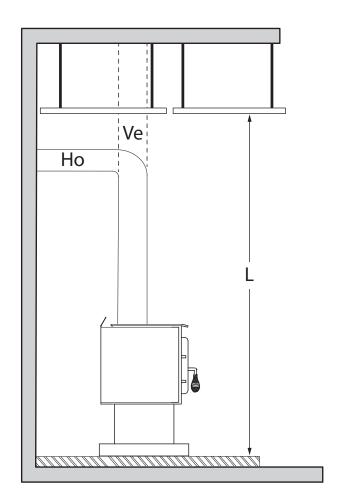
¹ Note that to reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used.

² The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

3.1.2 With Lowered Ceiling

| | APPLIANCE CLEARANCES WITH SINGLE WALL PIPE CONNECTOR Canada USA | |
|---|--|--------------|
| | | |
| Α | 14 ½" (368 mm) | 11" (279 mm) |
| В | 23" (584 mm) | 23" (584 mm) |
| С | 12" (305 mm) | 12" (305 mm) |
| L | 77" (196 mm) | 77" (196 mm) |

| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR | |
|---|--|--------------|
| | Canada USA | |
| Α | 9" (229 mm) | 9" (229 mm) |
| В | 23" (584 mm) | 23" (584 mm) |
| С | 12" (305 mm) | 12" (305 mm) |
| L | 77" (196 mm) | 77" (196 mm) |



If the above clearances are met, then the distances measured from the flue outlet will be:

| | DISTANCES¹ FROM PIPE CONNECTOR WITH SINGLE WALL PIPE CONNECTOR | | | | |
|---|---|----------------|--|--|--|
| | Canada USA | | | | |
| D | 18" (457 mm) | 14 ½" (368 mm) | | | |
| E | 32 ½" (825 mm) | 32 ½" (825 mm) | | | |
| F | 21 ¾" (552 mm) | 21 ¾" (552 mm) | | | |

| | DISTANCES¹ FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR | | | | |
|---|---|----------------|--|--|--|
| | Canada USA | | | | |
| D | 12 ¼" (311 mm) | 12 ¼" (311 mm) | | | |
| E | 32 ¼" (819 mm) 32 ¼" (819 mm) | | | | |
| F | 21 ½" (549 mm) | 21 ½" (549 mm) | | | |

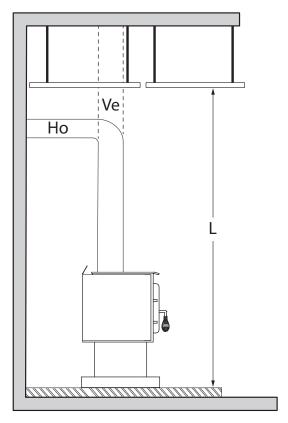
¹ The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

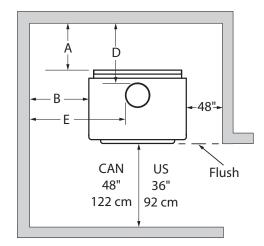
3.1.3 With Heat Shield AC02762 and Lowered Ceiling

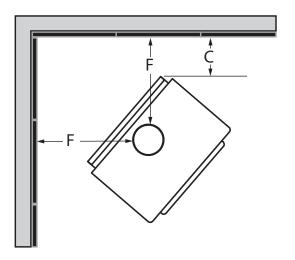
To reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used. Refer to the booklet in the screen options to obtain the dimensions to be respected.

| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR | | | | | |
|---|--|--|--|--|--|--|
| | Canada USA | | | | | |
| Α | 5" (127 mm) 5" (127 mm) | | | | | |
| В | 6" (152 mm) 6" (152 mm) | | | | | |
| С | 5" (127 mm) 5" (127 mm) | | | | | |
| L | 80" (203 mm) 80" (203 mm) | | | | | |

| | DISTANCES¹ FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR | | | | |
|---|---|--|--|--|--|
| | Canada USA | | | | |
| D | 8 ¼" (210 mm) 8 ¼" (210 mm) | | | | |
| E | 15 ¼" (387 mm) 15 ¼" (387 mm) | | | | |
| F | 14 ½" (368 mm) 14 ½" (368 mm) | | | | |







If the clearance reduction is on the same side as the door handle, position the stove at a minimum of 6 inches from the side wall (clearance B), otherwise it may be located at the clearance shown in the table above.

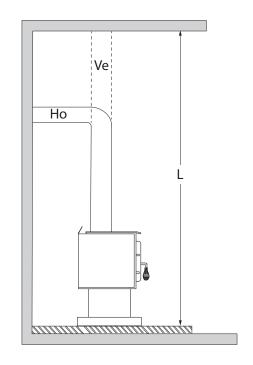
¹ The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

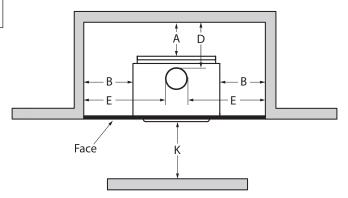
3.1.4 Inside a Combustible Alcove

See section 3.1 for the single wall pipe installation.

| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR | | | | | |
|---|--|-------------------------|--|--|--|--|
| | Canada USA | | | | | |
| Α | 9" (229 mm) | 9" (229 mm) 9" (229 mm) | | | | |
| В | 23" (584 mm) 23" (584 mm) | | | | | |
| K | 48" (1219 mm) 36" (914 mm) | | | | | |
| L | 77" (196 cm) 77" (196 cm) | | | | | |

| | DISTANCES¹ FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR | | | | | |
|---|--|----------------|--|--|--|--|
| | Canada USA | | | | | |
| D | 12 ¼" (311 mm) | 12 ¼" (311 mm) | | | | |
| E | 32 ¼" (819 mm) | 32 ¼" (819 mm) | | | | |





3.1.5 Mobile Home

It is strictly forbidden to install a unit with a single wall pipe in a mobile home.

| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR | | | | | |
|---|--|--------------|--|--|--|--|
| | Canada USA | | | | | |
| Α | 11" (279 mm) 11" (279 m | | | | | |
| В | 24" (610 mm) 24" (610 mm) | | | | | |
| С | 13" (330 mm) | 13" (330 mm) | | | | |

| | DISTANCES¹ FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR | | | | | |
|---|--|----------------|--|--|--|--|
| | Canada USA | | | | | |
| D | 14 ¼" (362 mm) | 14 ¼" (362 mm) | | | | |
| E | 33 ¼" (845 mm) | 33 ¼" (845 mm) | | | | |
| F | 22 ½" (572 mm) | 22 ½" (572 mm) | | | | |

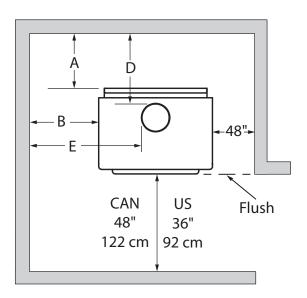
¹ The pipe distances listed in this table refer to the distances obtained when the stove is installed in accordance with the appliance clearances above mentioned.

3.1.6 Mobile Home With Heat Shield AC02762

It is strictly forbidden to install a unit with a single wall pipe in a mobile home.

| | APPLIANCE CLEARANCES WITH DOUBLE WALL PIPE CONNECTOR | | | | | |
|---|--|-------------|--|--|--|--|
| | Canada USA | | | | | |
| Α | 3" (76 mm) | 3" (76 mm) | | | | |
| В | 6" (152 mm) | 6" (152 mm) | | | | |
| С | 3" (76 mm) | 3" (76 mm) | | | | |

| | DISTANCES¹ FROM PIPE CONNECTOR WITH DOUBLE WALL PIPE CONNECTOR | | | | |
|---|--|----------------|--|--|--|
| | Canada USA | | | | |
| D | 6 ¼" (159 mm) | 6 ¼" (159 mm) | | | |
| E | 15 ¼" (387 mm) 15 ¼" (387 mm) | | | | |
| F | 12 ½" (318 mm) | 12 ½" (318 mm) | | | |



Les distances de tuyau listées dans ce tableau se réfèrent aux distances obtenues lorsque le poêle est installé en accord avec les dégagements de l'appareil mentionnés ci-dessus.

4. Floor Protection

This stove is meeting the requirements of CAN/ULC-S627 and is suitable for installation on a combustible floor. However, it must be placed on a non-flammable surface to protect the floor from hot embers that may fall during loading.

The floor protection must be a continuous, non combustible material, such as steel with a minimum thickness of 0.015" (0.38 mm) or ceramic tiles sealed together with grout. Cement board, brick, or any other approved or listed material suited for floor protection. No R factor required.

Any type of tile will require a continuous non combustible sheet beneath to prevent the possibility of embers falling through to the combustible floor if cracks or separation should occur in the finished surface. Check local codes for approved alternatives. No protection is required if the unit is installed on a non-combustible floor (ex: concrete).

| | FLOOR PROTECTION | | | | | |
|----------------|-----------------------------------|--------------------------------|--|--|--|--|
| | Canada ¹ USA | | | | | |
| G ² | 8" (203 mm) | N/A | | | | |
| Н | 8" (203 mm) | N/A | | | | |
| I | 18" (457 mm) From door opening | 16" (406 mm) From door opening | | | | |
| J | N/A | 8" (203 mm) | | | | |
| K | 43" (1092 mm) | 34" (864 mm) | | | | |
| N ³ | N/A | See note 3 | | | | |
| S | 49 ¼" (1251 mm) | 39 ¼" (997 mm) | | | | |
| Т | 34 7/8" (886 mm) | 27 ¾" (705 mm) | | | | |
| U | 43" (1092 mm) | 34" (864 mm) | | | | |
| V | 70 ¾" (1797 mm) | 56 ¼" (1429 mm) | | | | |

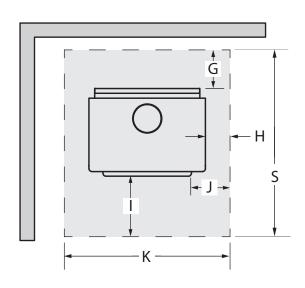
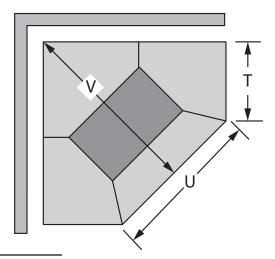
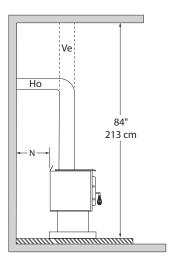


Figure 22: Floor Protection





¹ In Canada, to comply with CSA B365, Installation Code for Solid-Fuel-Burning Appliances and Equipment, any combustible covering beneath the appliance and/or within the area extending horizontally at least 450 mm (18 in) beyond the appliance on any side equipped with a door, and at least 200 mm (8 in) beyond the appliance on other sides, shall be protected by a continuous, durable, non-combustible pad that will ember protection. The 450 mm (18 in) ember protection required on any side with a door shall extend for the full width of the appliance plus the 200 mm (8 in) required on each side of the appliance without a door. Where the appliance is installed less than 200 mm (8 in) from a wall, the ember pad need only extend to the base of the wall. An ember pad shall not be placed on top of a carpet unless the pad is structurally supported to prevent displacement and distortion

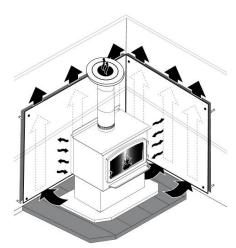
² The floor protection at the back of the stove is limited to the stove's required clearance if such clearance is smaller than 8 inches (203 mm).

³ Only required under the horizontal section (Ho) of the connector. Must exceed each side of the connector by at least 2 inches (51 mm).

5. Reducing Wall and Ceiling Clearances Safely

It is often desired to use as little space as possible when installing a wood stove. To do this, it is possible to reduce the clearances safely and install the stove closer to the walls by permanently installing a heat shield between the stove and the flammable material.

The rules for heat shields are sometimes complicated. Read and apply the instructions carefully. Some regions may have different regulations. Consult the local building code or contact the fire department for restrictions, inspection and installation requirements in the area.



Warning: To reduce the clearances of an appliance using a single wall pipe connector, the use of a heat shield certified with the single wall pipe connector to be used as close as 6" from combustible materials must be used. Only in this case, the same clearances as a certified double wall pipe connector can be used. Refer to the booklet in the screen options to obtain the dimensions to be respected.

5.1 Shield Construction Rules

- Adhesives used in shield construction must not ignite or lose adhesive qualities at temperatures likely to be encountered.
- Mounting hardware which extends from the shield surface into combustibles may be used only at the edges of the shield.
- Mounting hardware must allow full vertical ventilation.
- A) Minimum clearance between the appliance top and an unshielded combustible ceiling: 43 1/4" (1099 mm)
- B) Shield extension above the appliance: 20" (500 mm)
- C) Minimum space behind the shield: 1" (25 mm). In Canada 7/8" (21 mm)
- D) Clearance along the bottom of the shield: minimum 1" (25 mm) and maximum 3" (75 mm)
- E) Minimum clearance along the top of the shield: 3" (75 mm)
- F) Mounting hardware must not be located closer than 8" (200 mm) from the vertical centre line of the appliance.
- G) Edge clearance for ceiling shields to side and back walls: 3" (75 mm)
- H) Shield extension beyond each side of the appliance: 18" (450 mm)

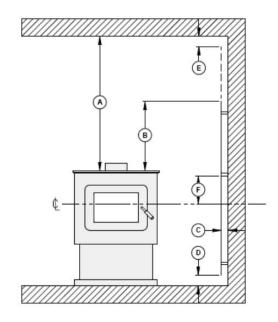


Figure 23: Heat shield clearances

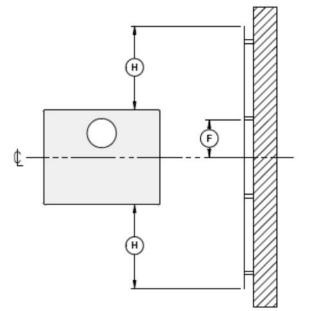


Figure 25: Heat shield clearances

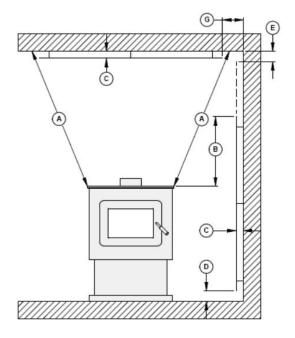


Figure 24: Heat shield clearances

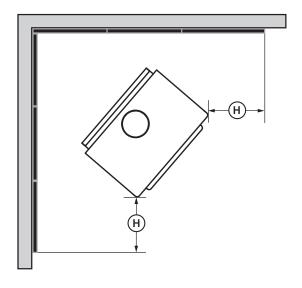


Figure 26: Heat shield clearances

| | CLEARANCES MAY BE REDUCED BY THESE PERCENTAGES | | | | |
|--|---|-----------------|------------------|-----------------|--|
| TYPE OF SHIELD | SIDES AN | D REAR | TOP (CE | EILING) | |
| | CAN / USA (%) | USA MIN. | CAN / USA (%) | USA MIN. | |
| Sheet metal, a minimum of 24 gauge (0.61 mm) in thickness, spaced out at least 1" (25 mm)* by non-combustible spacers | | 12" (305 mm) | 50 | 18" (457 mm) | |
| Ceramic tiles, or equivalent non-combustible material, on non-combustible board spaced out at least 1" (25 mm)* by non-combustible spacers | 50 | 18" (457 mm) | 33 | 24" (610 mm) | |
| Ceramic tiles, or equivalent non-combustible material, on non-combustible board, with a minimum of 24 gauge (0.61 mm) sheet metal backing spaced out at least 1" (25 mm)* by non-combustible spacers | 67 | 12" (305 mm) | 50 | 24" (610 mm) | |
| Brick, spaced out at least 1" (25 mm)* by non-combustible spacers | 50 | 18" (457 mm) | N/A | N/A | |
| Brick, with a minimum of 24 gauge (0.61 mm) sheet metal backing, spaced out at least 1" (25 mm)* by non-combustible spacers | 67 | 12" (305 mm) | N/A | N/A | |

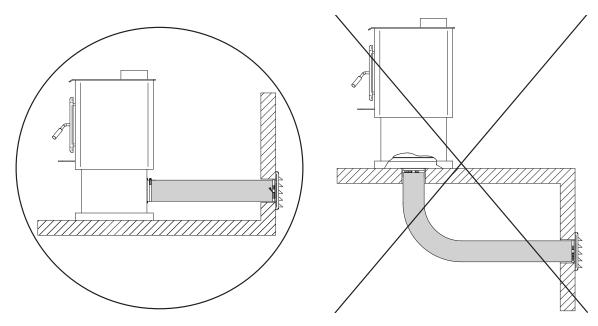
 $^{^{\}star}$ In Canada this space can be %" (21 mm)

6. INSTALLATION OF OPTIONS ON YOUR PRODUCT

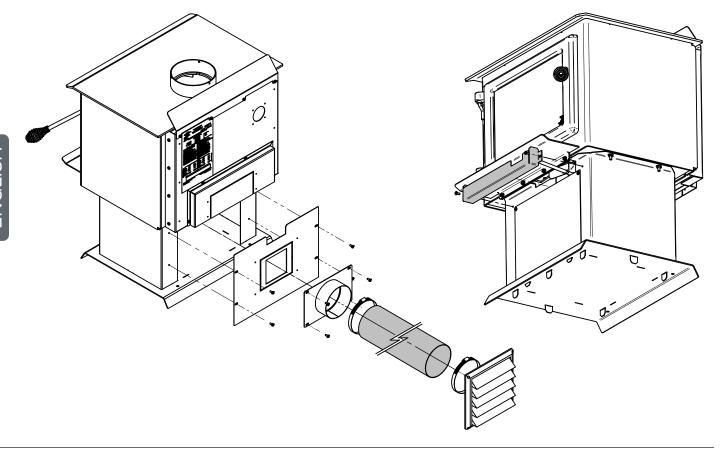
6.1 Optional Fresh Air Intake Kit Installation



The configuration of this appliance do not allow the air intake to be installed underneath the pedestal. It can only be installed on the back.



This mobile home approved stove requires the installation of a fresh air intake kit **(A)** and an insulated fresh air intake pipe (HVAC type, must meet ULC S110 or UL 181 class 0 or class 1) **(B)**, sold separately. Refer to air intake kit installation instructions for more details.



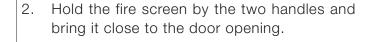
6.2 Optional Fire Screen Installation

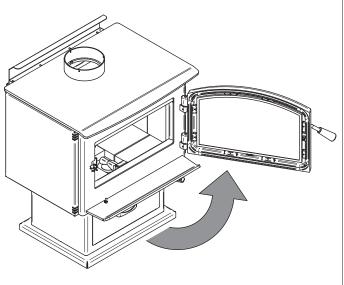
THE IMAGES SHOWN ARE FOR GUIDANCE ONLY AND MAY BE DIFFERENT FROM YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.

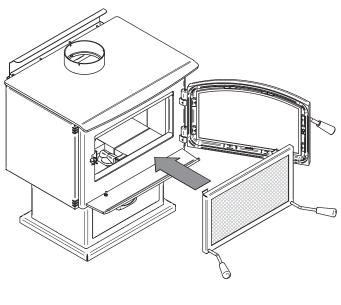
In the United States or in provinces with a particulate emission limit (eg. US EPA), the use of wood stoves with the door open with a rigid firescreen is prohibited.

It is prohibited to use this wood stove with a fire screen in a mobile home.

1. Open the door.

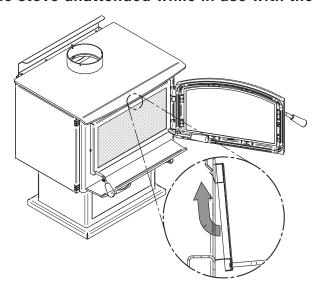






- 3. Lean the upper part of the fire screen against the top door opening making sure to position the top fire screen brackets behind the primary air deflector.
- 4. Lift the fire screen upwards and push the bottom part towards the stove then let the fire screen rest on the bottom of the door opening.

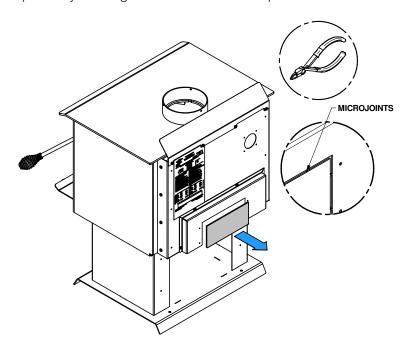
Warning: Never leave the stove unattended while in use with the fire screen.



6.3 Optional Blower Installation

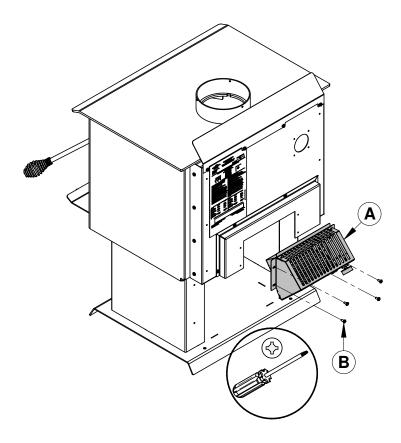
A blower, sold separately, can be installed on the stove.

1. Remove the backplate by cutting the knockouts with pliers.



2. Screw the blower (A) in place using the screws (B) included in the installation manual.

Ensure that the blower's power cord is not in contact with any surface of the stove to prevent electrical shock or fire damage. Do not run the power cord beneath the stove.

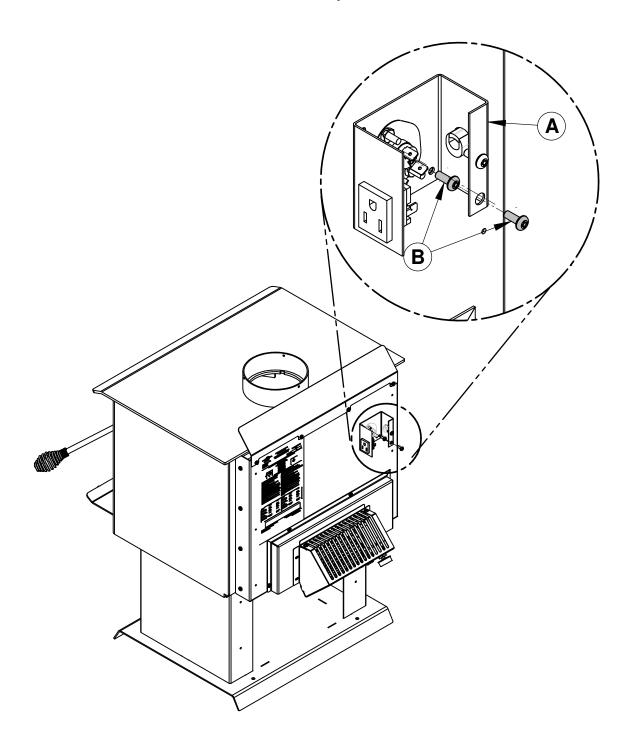


6.4 Optional Thermodisc Installation

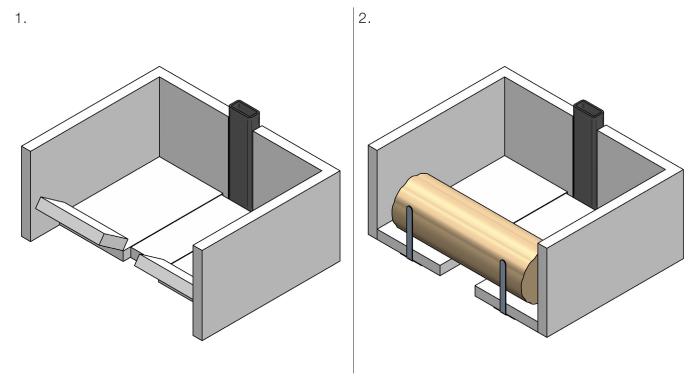
A thermodisc, sold separately, can be installed with the blower. It allows the fan to operate only when the stove is hot enough. See the instructions provided with the thermodisc for more details.

Screw the thermodisc (A) with the screws (B) provided on the back of the stove.

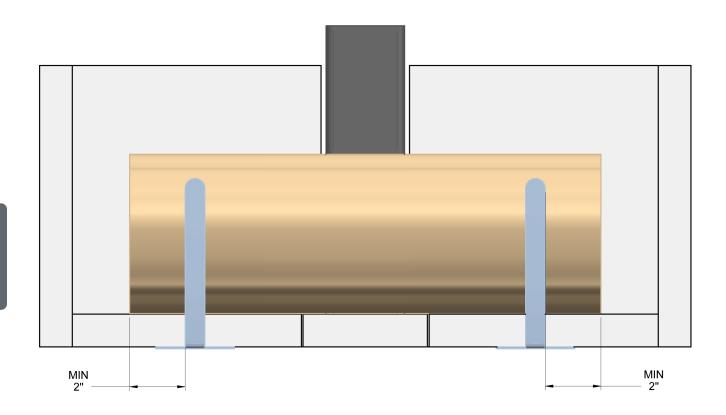
The electrical cord of the thermodisc should not touch any surface of the stove to avoid electric shock or fire. Do not run the power cord under the stove.



6.5 Log Retainers Installation

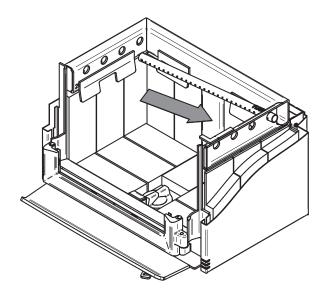


3.

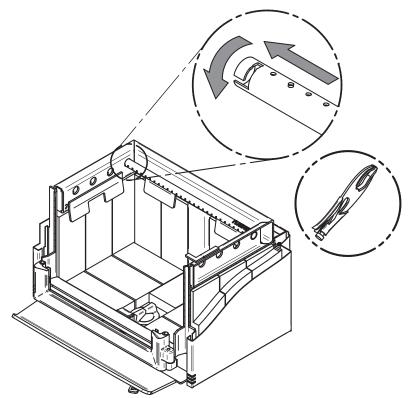


6.6 Air Tubes And Baffle Installation

 Starting with the rear tube, lean and insert the right end of the secondary air tube into the rear right channel hole. Then lift and insert the left end of the tube into the rear left channel.

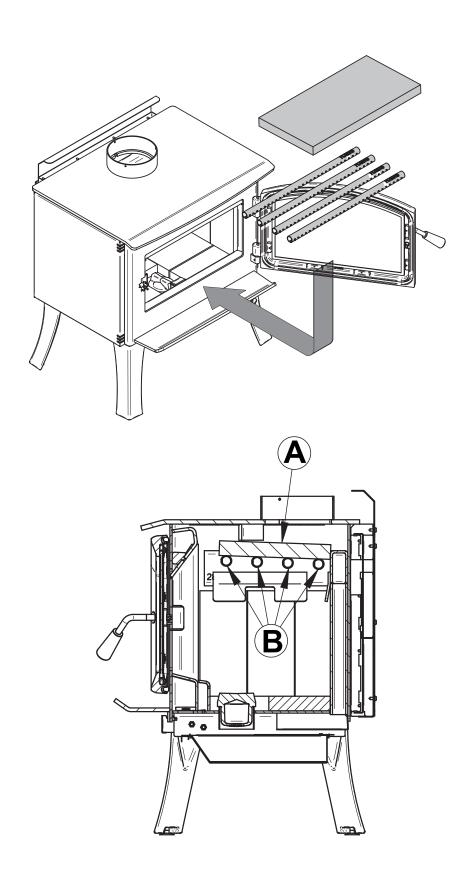


2. Align the notch in the left end of the tube with the key of the left air channel hole. Using a « Vise grip » hold the tube and lock it in place by turning the tube as shown. Make sure the notch reaches the end of the key way.



- 3. Put the baffle in place.
- 4. Repeat steps 1 and 2 for the three other tubes.
- 5. To remove the tubes use the above steps in reverse order.

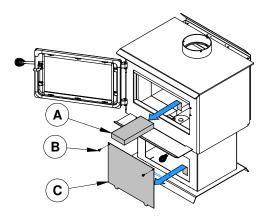
Note that secondary air tubes **(B)** can be replaced without removing the baffle board **(A)** and that all tubes are not necessarely identical (look at the part number on the tube).



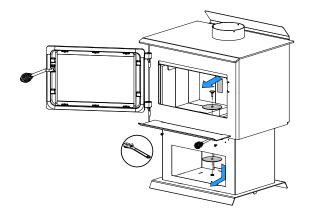
6.7 Optional ash pan installation

A ash pan, sold separately, can be installed on the stove.

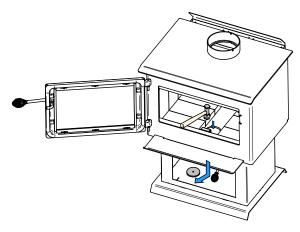
1. Remove the metal plate (C) and the refractory brick (A).



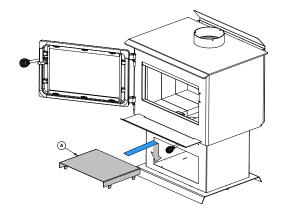
2. Unscrew the two metal rounds using an adjustable wrench.



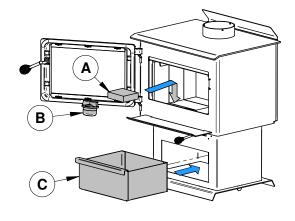
3. Using a hammer, remove the third metal rounds.



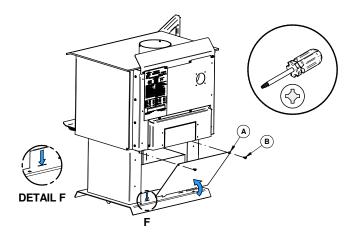
4. Place the ash pan support (A) in the bottom of the base of the stove.



5. Place the refractory brick (A), the ash plug (B) and the ash pan (C).

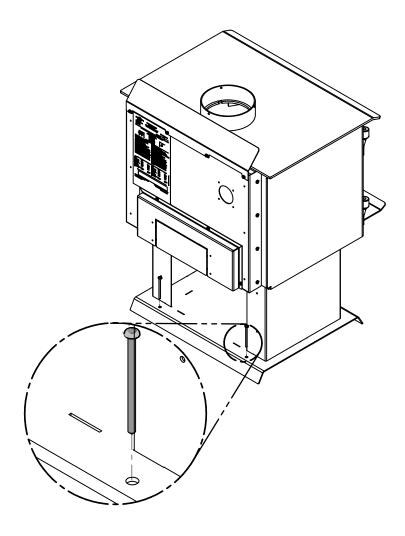


6. Screw the metal plate (A) behind the stove.

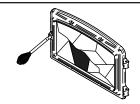


6.8 Mobile Home Installation

For a base unit, screw the base in place with the appropriate hardware.



7. Maintenance/Parts Replacement



Do not clean the glass when the stove is hot.

Do not abuse the glass door by striking or slamming shut.

Do not use the stove if the glass is broken.

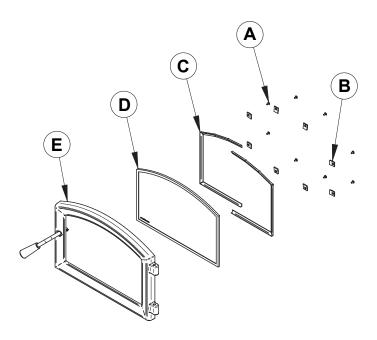
7.1 Replacement

The glass used is a ceramic glass, 5/32" (4 mm) thick, tested to reach temperatures up to 1400° F. The dimensions of the glass are 15 3/4"L x 10 1/8"H. If the glass breaks, it must be replaced by a ceramic glass from SCHOTT with the same specification. Contact your dealer to obtain a genuine replacement part.

WARNING: DO NOT USE SUBSTITUTE MATERIALS WHEN REPLACING THE GLASS.

To remove or replace the glass (D):

THE IMAGES SHOWN ARE FOR GUIDANCE ONLY AND MAY BE DIFFERENT FROM YOUR PRODUCT, BUT THE ASSEMBLY REMAINS THE SAME.



- 1. Remove the door (E) from its hinges and lay it on a soft, flat surface.
- 2. Remove the eight screws (A), the eight glass retainers (B), and the metal frames (C).
- 3. Remove the glass **(D)**. If it is damaged install a new one in place. The replacement glass must have a gasket all around (see procedure below).
- 4. Reinstall the glass, being careful to centre the glass in the door and not to over-tightening the retaining screw.

The two main causes of broken door glass are uneven placement in the door and over-tightening the retaining screws.

7.2 Gasket

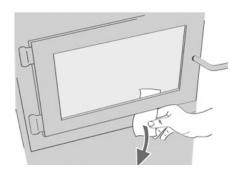
The glass gasket is flat, adhesive-backed, woven fibreglass. The gasket must be centred on the edge of the glass.

- 1. Follow the steps of the previous section to remove the glass.
- 2. Remove the old gasket and clean the glass thoroughly.
- 3. Peel back a section of the paper covering the adhesive and place the gasket on a table with the adhesive side up.
- 4. Stick the end of the gasket to the middle of one edge, then press the edge of the glass down onto the gasket, taking care that it is perfectly centred on the gasket.
- 5. Peel off more of the backing and rotate the glass. The gasket must not be stretched during installation.
- 6. Cut the gasket to the required length.
- 7. Pinch the gasket onto the glass in a U shape, all around the glass.

By following these instructions, the edge clearances are maintain.

7.3 Door

In order for the stove to burn at its best efficiency, the door must provide a perfect seal with the firebox. The tightness of the door seal can be verified by closing and latching the door on a strip of paper. The test must be performed all around the door. If the paper slips out easily anywhere, either adjust the door or replace the gasket.



7.3.1 Adjustment

In order for the stove to burn at its best efficiency, the door must provide a perfect seal with the firebox. Therefore, the gasket should be inspected periodically to check for a good seal. The gasket seal may be improved with a simple latch mechanism adjustment:

- 1. Remove the split pin by pulling and turning it using pliers.
- 2. Turn the handle one counterclockwise turn to increase pressure.
- 3. Reinstall the split pin with a small hammer.

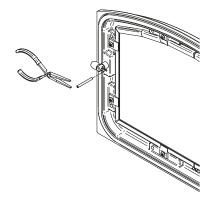


Figure 27: Removing the split pin

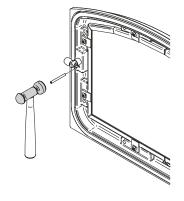
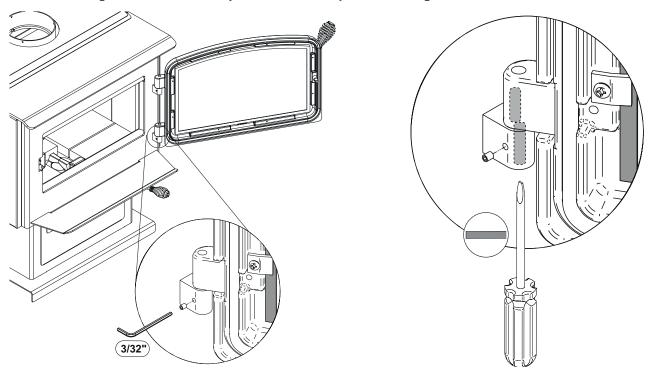


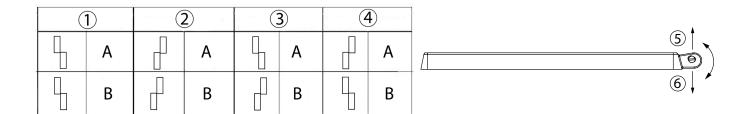
Figure 28: Installing the split pin

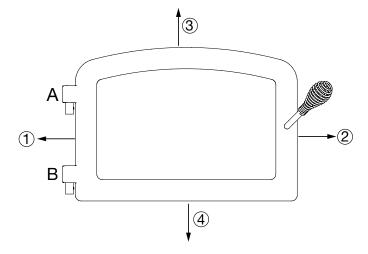
7.3.2 Door Alignment

To align, open the door and loosen the pressures screws located on the lower and upper hinges of the door using a 3/32" Allen key to free the adjustable hinge rods.



Using a flat screwdriver, turn the adjustable hinge rods in the direction shown to adjust the doors. Tighten all door hinge pressure screws when they are at the desired positions. Configurations 1-2-3-4-5-6, show in which direction these act on the adjustment of the door.

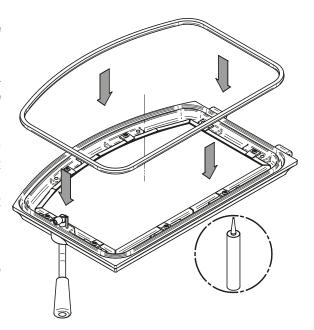




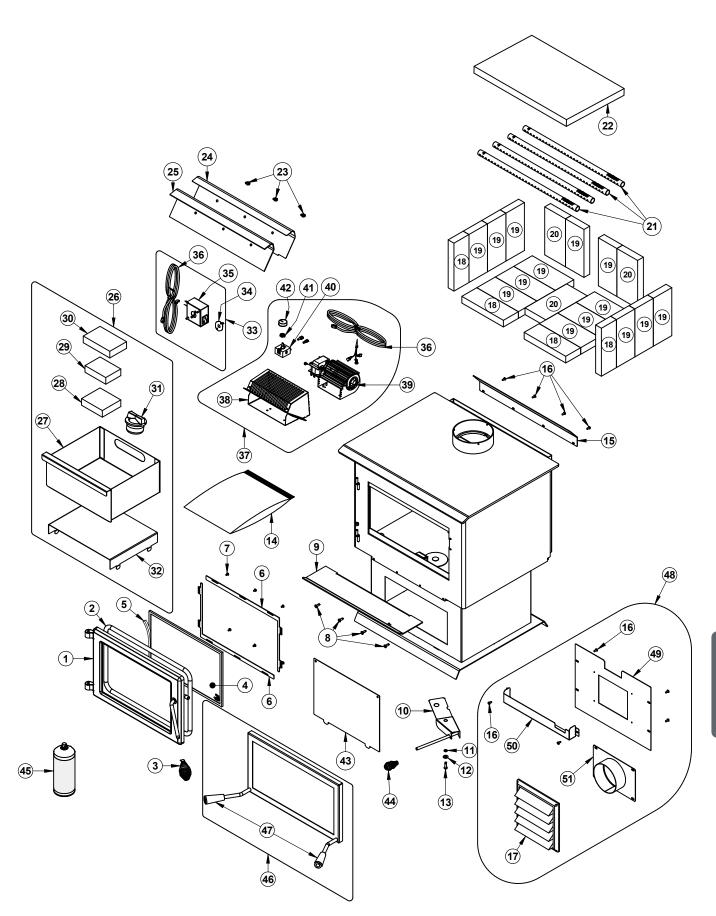
7.3.3 Gasket

It is important to replace the gasket with another having the same diameter and density to maintain a good seal.

- 1. Remove the door and place it face-down on something soft like a cushion of rags or a piece of carpet.
- 2. Remove the old gasket from the door. Use a screwdriver to scrape the old gasket adhesive from the door gasket groove.
- 3. Apply a bead of approximately 3/16" (5 mm) of high temperature silicone in the door gasket groove. Starting from the middle, hinges side, press the gasket into the groove. The gasket must not be stretched during installation.
- 4. Leave about ½" long of the gasket when cutting and press the end into the groove. Tuck any loose fibers under the gasket and into the silicone.
- 5. Close the door. Do not use the stove for 24 hours.



8. Exploded Diagram and Parts List



IMPORTANT: THIS IS DATED INFORMATION. When requesting service or replacement parts for your unit, please provide the model number and the serial number. We reserve the right to change parts due to technology upgrades or availability. Contact an authorized dealer to obtain any of these parts. Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

| # | Item | Description | Qty |
|----|------------|--|-----|
| 1 | SE24346 | CENTURY DOOR ASSEMBLY | 1 |
| 2 | AC06500 | SILICONE AND 5/8" X 8' BLACK DOOR GASKET KIT (AC-DGKNC) | |
| 3 | AC07868 | 1/2" BLACK COIL HANDLE | |
| 4 | SE74009 | 15 3/4''W X 10 1/8''H GLASS WITH GASKET | |
| 5 | AC06400 | 3/4" x 6' x 1/8" FLAT BLACK SELF-ADHESIVE GLASS GASKET (AC-GGK) | 1 |
| 6 | PL74017 | GLASS RETAINER | 2 |
| 7 | 30124 | MECHANICAL SCREW #8-32 X 5/16" TRUSS QUADREX #2 ZINC | 6 |
| 8 | 30507 | BLACK TORX SCREW WITH FLAT HEAD TYPE F 1/4-20 X 3/4" | |
| 9 | PL74052 | AIR DEFLECTOR | |
| 10 | SE65305 | AIR CONTROL DAMPER ASSEMBLY | |
| 11 | 30187 | STAINLESS WASHER IØ 17/64" X OØ 1/2" | |
| 12 | 30206 | ZINC WASHER 5/16"ID X 3/4"OD | 1 |
| 13 | 30506 | BLACK SCREW PAN TORX TYPE F 1/4-20 X 1" | 1 |
| 14 | SE46221 | CENTURY 2.3 INSTRUCTION MANUAL KIT | 1 |
| 15 | PL74063 | AIR DEFLECTOR | 1 |
| 16 | 30154 | BLACK ZINC SCREW #10 X 5/8" QUADREX #2 TYPE A | 10 |
| 17 | 49028 | 5" WHITE AIR INTAKE TERMINATION | 1 |
| 18 | 29007 | 3 1/4" X 9" X 1 1/4" REFRACTORY BRICK | 4 |
| 19 | 29015 | 4" X 9" X 1 1/4" REFRACTORY BRICK | 14 |
| 20 | 29010 | 4 1/2" X 9" X 1 1/4" REFRACTORY BRICK | 3 |
| 21 | PL65514 | SECONDARY AIR TUBE | |
| 22 | 21388 | 20" X 12 1/2" X 1 1/4" VERMICULITE BAFFLE | 1 |
| 23 | 30060 | THREAD-CUTTING SCREW 1/4-20 X 1/2" F HEX STEEL SLOT WASHER C102 ZINC | 3 |
| 24 | PL65505 | TOP AIR DEFLECTOR PROTECTOR | 1 |
| 25 | 21387 | TOP AIR DEFLECTOR INSULATION | 1 |
| 26 | AC01099 | ASH DRAWER KIT | 1 |
| 27 | PL74056 | ASH DRAWER | 1 |
| 28 | 29004 | 4" X 4 1/2" X 1 1/4" REFRACTORY BRICK | 2 |
| 29 | PL36760 | 3 1/4" X 4 1/2" X 1 1/4" REFRACTORY BRICK | 1 |
| 30 | PL36274 | 3 5/8" X 5 3/4" X 1 1/4" REFRACTORY BRICK | 1 |
| 31 | 24096 | ROUND CAST IRON ASH PLUG | 1 |
| 32 | PL74004 | DRAWER GUIDE | 1 |
| 33 | AC02055 | QUICK CONNECT THERMODISC | 1 |
| 34 | 44028 | CERAMIC THERMODISC F110-20F | 1 |
| 35 | PL05530-02 | THERMODISC BOX (COVER) | 1 |

| # | Item | Description | Qty |
|----|---------|---|-----|
| 36 | 60013 | POWER CORD 96" X 18-3 type SJT (50 pcs per carton) | 2 |
| 37 | AC02050 | BLOWER ASSEMBLY WITH VARIABLE SPEED CONTROL (UP TO 100 CFM) | |
| 38 | SE65598 | AIR INTAKE ADAPTER | 1 |
| 39 | 44073 | CROSSFLOW BLOWER 115V-60Hz-39W 100 CFM | 1 |
| 40 | 44080 | RHEOSTAT WITHOUT NUT (MODEL KBMS-13BV) | 1 |
| 41 | 44087 | RHEOSTAT NUT | 1 |
| 42 | 44085 | RHEOSTAT KNOB | 1 |
| 43 | PL74047 | PEDESTAL FRONT COVER | 1 |
| 44 | AC07869 | 3/8" BLACK COIL HANDLE | 1 |
| 45 | AC05959 | METALLIC BLACK STOVE PAINT - 342 g (12oz) AEROSOL | 1 |
| 46 | AC01315 | RIGID FIRESCREEN | 1 |
| 47 | 30898 | ROUND WOODEN BLACK HANDLE | 2 |
| 48 | AC02081 | 5"Ø FRESH AIR INTAKE KIT | 1 |
| 49 | PL74054 | BACK OF THE BASE | 1 |
| 50 | PL74055 | DECORATIVE PLATE | 1 |

CENTURY LIMITED LIFETIME WARRANTY

The warranty of the manufacturer extends only to the original retail purchaser and is not transferable. This warranty covers brand new products only, which have not been altered, modified nor repaired since shipment from factory.

This warranty applies to normal residential use only. This warranty is void if the unit is used to burn material other than cordwood (for which the unit is not certified by EPA) and void if not operated according to the owner's manual. Damages caused by misuse, abuse, improper installation, lack of maintenance, over firing, negligence or accident during transportation, power failures, downdrafts, venting problems or under-estimated heating area are not covered by this warranty. The recommended heated area for a given appliance is defined by the manufacturer as its capacity to maintain a minimum acceptable temperature in the designated area in case of a power failure.

This warranty does not cover any scratch, corrosion, distortion, or discoloration. Any defect or damage caused by the use of unauthorized or other than original parts voids this warranty. An authorized qualified technician must perform the installation in accordance with the instructions supplied with this product and all local and national building codes. Any reclamation related to an improper installation is not covered by this warranty.

The manufacturer may require that defective products be returned or that digital pictures be provided to support the claim. Returned products are to be shipped prepaid to the manufacturer for investigation. Transportation fees to ship the product back to the purchaser will be paid by the manufacturer. All parts costs covered by this warranty are limited according to the table below.

The manufacturer, at its discretion, may decide to repair or replace any part or unit after inspection and investigation of the defect. The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of any warranted but defective parts. The manufacturer shall, in no event, be responsible for any uncommon, indirect, consequential damages of any nature, which are in excess of the original purchase price of the product. A one-time replacement limit applies to all parts benefiting from lifetime coverage. This warranty applies to products purchased after July 1st, 2020.

| DESCRIPTION | WARRANTY APPLICATION* | |
|--|--------------------------|--|
| BEGGIIII TIGN | PARTS | |
| Combustion chamber (welds only) and cast iron door frame. | 5 years | |
| Surrounds, heat shields, ash drawer, steel legs, pedestal and convector air-mate. | 2 years | |
| Removable stainless steel combustion chamber components, secondary air tubes**, deflectors and supports. | 2 years | |
| Glass retainers, handle assembly, and air control mechanism. | 2 years | |
| Carbon steel combustion chamber components, vermiculite baffle**and ceramic glass. | 1 year | |
| Blower, heat sensors, switches, rheostat, wiring, and other controls. | 1 year | |
| Firebricks, paint and gaskets. | - | |
| Any parts replaced under the warranty (Except firebricks, paint and gaskets) | 90 days | |

*Subject to limitations above. **Picture required.

Shall your unit or a components be defective, contact immediately your CENTURY. To accelerate processing of your warranty claim, make sure to have on hand the following information when calling:

- Your name, address and telephone number;
- Installation configuration;
- Nature of the defect and any relevant information.
- Serial number and model name as indicated on the nameplate fixed to the back of your unit;

Before shipping your unit or defective component to our plant, you must obtain an Authorization Number from your CENTURY. Any merchandise shipped to our plant without authorization will be refused automatically and returned to sender.

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