Leyden / Arbor Firebox Parts Installation

(see part numbers below)

Overview

This instruction sheet details installation of the three components listed below. Follow the instructions for to the component being replaced. Refer to the exploded view diagram for parts reference and overview.

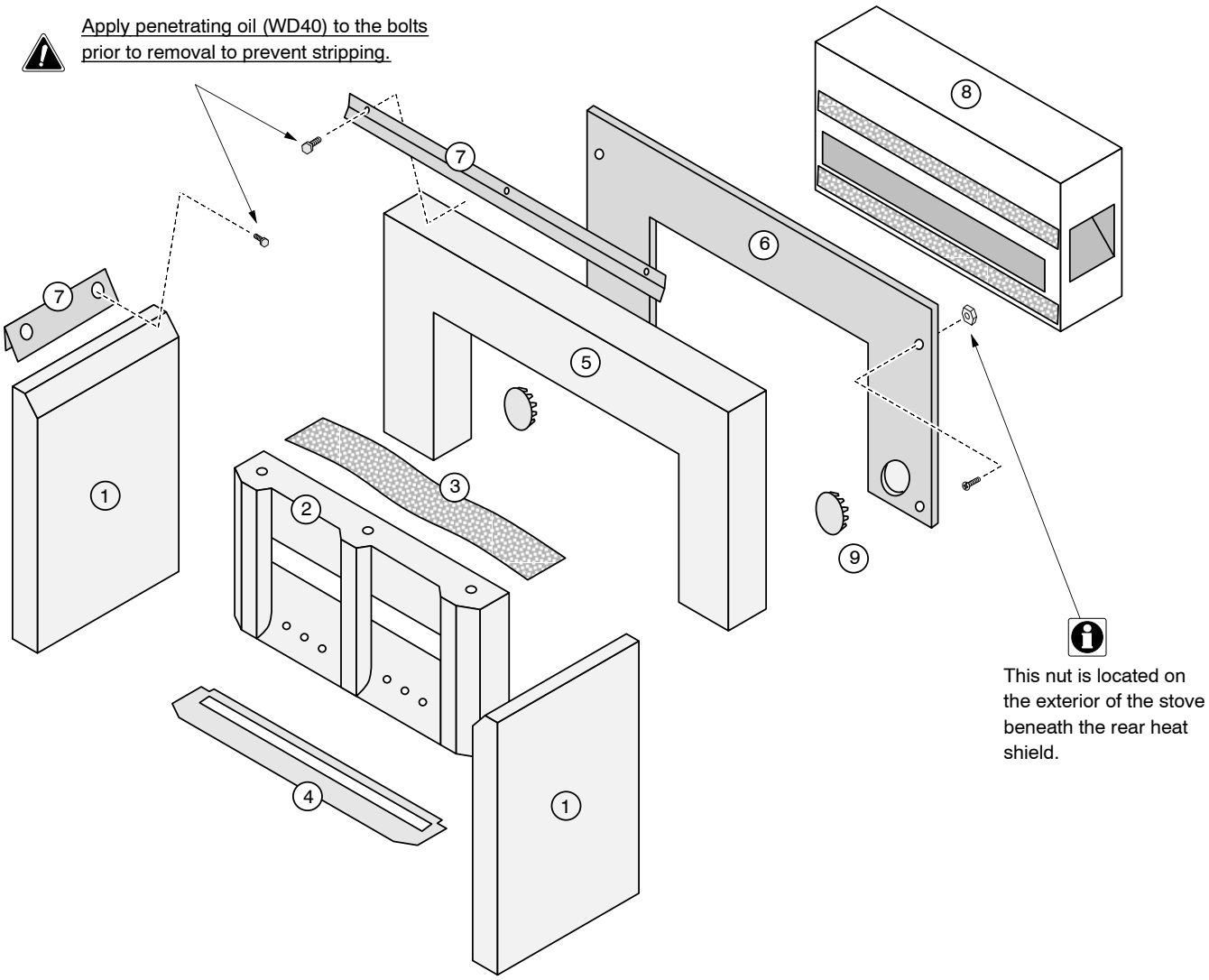
Packing List

Combustor Brick (250-00141)
- Combustor Brick
- Combustor Brick Gasket
- Interram Gasket

Back Plate (250-00704)
- Back Plate
- (2) Push Plugs
- (4) ¼-20 1-1/2" Bolts
- (4) ¼-20 Brass Nuts

Combustor (250-00247)
- Combustor (with gaskets attached)

Exploded View Diagram



ID #	Description	Qty	Part #		ID #	Description	Qty	Part #
1	Side Brick	2	250-00139		2	Combustor Brick w 2 Gaskets	1	250-00141
3	Inter-Ram Gasket	1	250-00294		4	Combustor Brick Gasket	1	250-00145
5	Back Brick	1	250-00140		6	Firebox Back w 4 Nuts & Bolts	1	250-00704
7	Brick Retainers with Bolts	1	250-00144		8	Combustor Pack with Gaskets	1	250-00247
9	Push Plugs (pack of 4)	2	92-1360					

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(see part numbers below)

Combustor Brick Installation

> The bolts inside the firebox may become difficult to remove after the stove has been burned. Apply penetrating oil (WD40™) to the bolts 5 minutes prior to removal to prevent stripping or breaking the bolts.

1. Remove the side bricks and retainers (5/16" Nutdriver). See Figure 1.
2. Remove the back brick and retainer (7/16" Socket Wrench). See Figure 2.

Figure 1

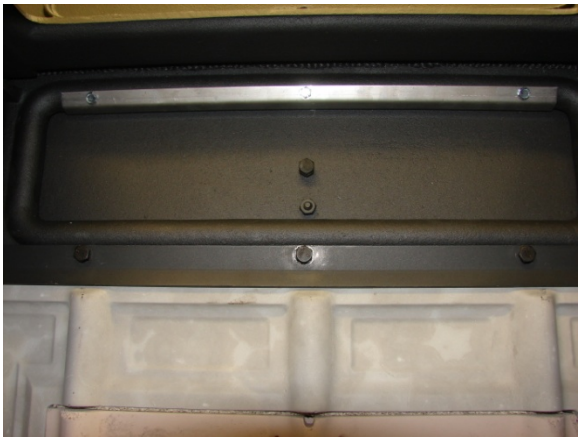

Figure 2

3. Grasp the combustor brick with both hands and rotate it forward. See Figure 3. A ledge along the bottom of the firebox floor helps hold the brick in place, make sure the brick clears this ledge while removing.

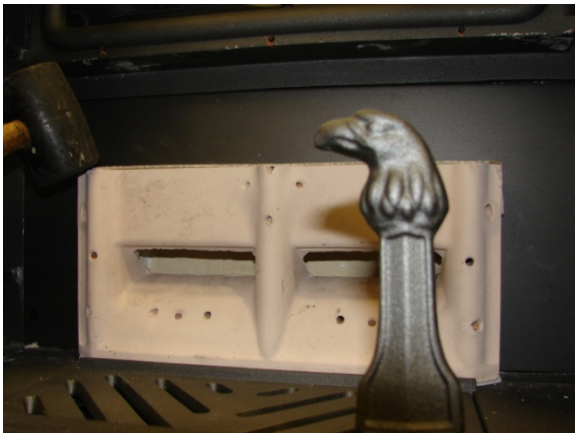

Figure 3

4. Before replacing the combustor brick, place the combustor brick gasket along the floor of the firebox, making sure the slot in the gasket lines up correctly. Install the combustor brick and place the interram gasket on top of it.
5. Replace the back and side bricks and retainers. You may wish to place high-temperature anti-seize on the firebox bolts prior to installation to prevent the bolts from seizing.

Back Plate Installation

1. Follow the instructions for removing the combustor brick (see page 2).
2. Remove the bypass ratcheting mechanism from the stove (see Figure 4). Remove the heat shield from the back of the stove, exposing the four brass nuts holding the back plate in place (see Figure 5).

Figure 4

Figure 5

3. Unscrew the four screws holding the back plate in place (use a #3 Phillips screwdriver – See Figure 6). If the bolts on the back of the stove begin to spin, use a wrench to secure.

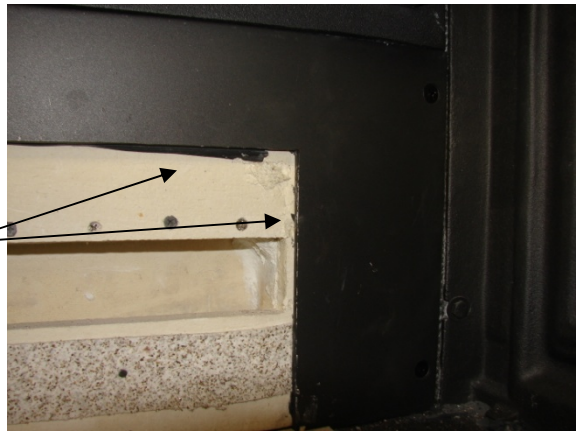

Figure 6

4. When replacing the back plate, take care to prevent damage to the combustor. Tighten the bolts in an alternating pattern (upper left, lower right, upper right, lower left) to prevent un-even tension on the plate.

Combustor Installation

1. Follow the instructions for removing the combustor brick (see page 2).
2. Follow the instructions for removing the back plate (see page 3).
3. Apply penetrating oil (WD40™) to the two nuts holding the bypass assembly to the stove top and the two bolts holding it to the back of the stove. Allow the oil to absorb for five minutes. Remove the two bolts with a 7/16" socket wrench (see Figure 7). Remove the two nuts and washers along the stove top with a 7/16" deep socket wrench. Hold the bypass plate in the closed position and carefully remove the bypass assembly.
4. Remove the combustor from the firebox.
5. When replacing the combustor, make sure it is centered in the rear of the firebox (see Figure 8). Then re-install the bypass, using one hand to hold the bypass plate closed while lifting the assembly into place. By holding the bypass plate closed, it allows the bypass rod to engage the bypass correctly. Hold the bypass in place and install the washers and nuts that install into the stove top (do not fully tighten at this time). Take care to prevent damage to the combustor during bypass installation. Install the two bolts into the back of the bypass assembly. Tighten the bolts in an alternating pattern, making sure the bypass is aligned correctly. Tighten the nuts along the top in an alternating pattern to secure the bypass.
6. Replace the remaining firebox components (see pages 2 and 3).

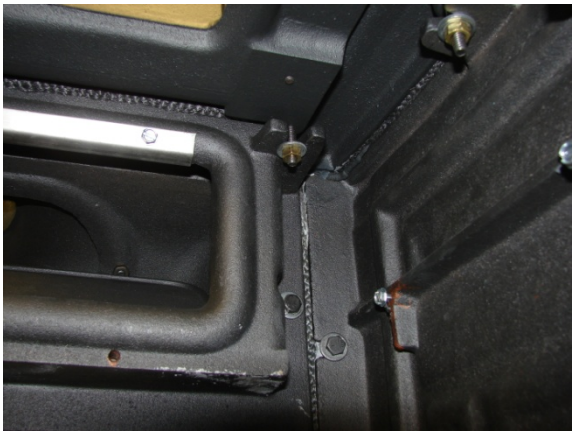

Figure 7

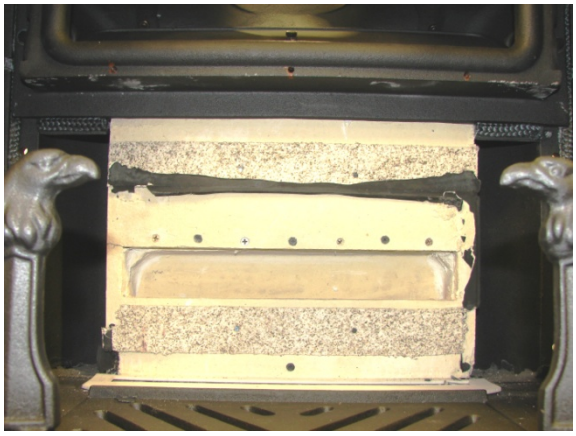

Figure 8

