

Quick User Guide: The NAVAJO Hybrid Wood/Coal Stove

A. Lighting a Fire and Starting the Stove

- 1 Use only wood to kindle a fire. Move coil-handled Fuel Choice Lever to “WOOD” position (Figure 1)
- 2 Move the Air Control to the right (upper slots fully open) (Figure 2)
- 3 Open the Bypass Damper (Figure 3) Must be open to prevent smoke from spilling into room.
- 4 Build a kindling fire to start the stove
 - a. Put small sheets of crumples newspaper on the grate.
 - b. Build a small tipi with kindling around the newspaper. (Figure 4)
 - c. Light the newspaper, and slowly close the Load Door

Note 1: Always leave the Fuel Choice Lever in the “WOOD” position, unless you are adding coal/burning coal

Note 2: As soon as the stove is warm, close the bypass damper. This increases efficiency and heat output.



Figure 1



Figure 2



Figure 3



Figure 4

B. Adding Wood to a Kindling Fire

- 1 Make sure the Bypass Damper (Figure) is open
- 2 Add several pieces of firewood to the kindling fire (Figure 5)
- 3 Close the Load Door, wait for the stove to warm up, then close the Bypass Damper (Figure 6) to increase efficiency and output.
- 4 Gradually close the Air Control (Figure 7) to reduce air intake so the wood will burn longer

Please note: when burning wood only, do not close the Air Control beyond the center diamond mark, keeping the Air Control on the “wood” side of the diamond.



Figure 5



Figure 6

C. COAL OPERATION

The stove should be started using wood. Once a wood fire has been established, coal may be added as an alternative fuel. Establish a good, hot coalbed before adding coal.

- 1 Move the Fuel Choice Lever to “COAL” (Figure 8)
- 2 Slide the Air Control to “COAL” all the way to the left (Figure 9)
- 3 Open the Bypass Damper (Figure 3) and the Load Door
- 4 Rake down the center of the grate, to move ashes into the ash pan and increase airflow through the grate and into the firebox.
- 5 Put in several large pieces of coal. Leave space between pieces of coal so air can flow up through the middle of the grate. Add small coal pieces outside big pieces. (Figure 10) Always keep a flame in the coalbed. Make sure there is some flame before you close the door.
- 6 Close the Load Door and Bypass Damper



Figure 7



Figure 8



Figure 9



Figure 10



After loading coal, check to be sure there are visible flames in the coalbed. If there are no flames, open the Bypass Damper for several minutes until flames are clearly visible.



When burning coal, always keep a flame in the coalbed

The NAVAJO Hybrid Wood/Coal Stove: Controls

Fuel Choice Lever

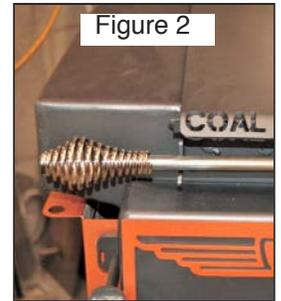
The Fuel Choice Lever is operated with a coil spring handle above the door. This control engages a catalytic combustor when burning wood, and disengages it when burning coal.

To burn wood, use the coil spring to straighten the lever, then push it in as far as it will go and leave it there. The coil spring handle is centered over the door (Figure 1)

To burn coal, pull the rod out completely to disengage the catalyst. Move the handle to the left before loading coal (Figure 2)



Wood Position



Coal Position

When burning wood and coal at the same time, leave Fuel Selection Rod in "COAL" position.

Bypass Damper

Opening the Bypass Damper prevents smoke from coming out the loading door when you are kindling a fire or loading fuel. The Bypass Damper Handle is in front of the loading door, so the door cannot be opened unless the bypass is opened first.

When the bypass is open, smoke goes directly up the chimney

When the bypass is closed, the stove produces more heat, and less smoke. Close the bypass as soon as the stove begins to warm up.



Bypass Closed



Bypass Opening

The Bypass Handle must be opened to kindle a fire or reload the stove. Close this handle when the stove is in operation. The stove will produce more heat and less smoke with the handle closed.

Air Control

The air damper on the bottom of the Load Door controls the rate the fuel is burned and the amount of heat that the stove produces.

Move the air damper to the right of the diamond mark to burn wood. Move it all the way to the right to kindle a fire or maximum heat.

When burning coal, move the air damper all the way to the left. Adjust the damper slightly toward the middle to extend coal burn times.

! There should always be a flame when burning coal. **!**



Push RIGHT To Burn WOOD



Push LEFT To Burn COAL

Door Latch Detente

There is a small notch in the door handle. If you close the door just to this notch, it will let air in at the edge of the door. This will provide a small boost when kindling a fire.

Use the detente to add a little air when starting a wood fire, or just after reloading.

