

Crane Stoves

QUALITY STOVES FROM QUALITY PEOPLE

4 STOVES IN 1	Basic	Quick Change Combustion Pac		
	Full Stove	Large Firepot		Mini Firepot
FUEL USED	Wood	Wood	Coal	Coal
LOG LENGTH (MAX)	22"	18"	N/A	N/A
POUNDS OF COAL (MAX)	N/A	N/A	50	20
NUMBER OF ROOMS	2-6	1-4	3-8	1-3
HOURS OF BURNING	5-10	4-8	15-40	12-32
NOMINAL OPERATING RANGE IN CUBIC FEET	5-10,000	3-6,000	5-10,000	3-6,000
CUBIC FEET (MAX)	15,000	9,000	19,500	9,000
BTU (MAX)	65,000	39,000	65,000	30,000

HEIGHT	25 1/2"
WIDTH	26"
DEPTH FOR HEARTH	13"
FLUE HEIGHT (Top)	24 1/2"
FLUE SIZE	6"

Crane Stoves

THE COAL & WOOD BURNERS ALMANAC

A Guide to Solid Fuel Burning
along with the
Owners Manual for the
Model 404

Crane Stoves

inches of brick around the flue liner. This thickness is necessary to keep the gases from cooling and forming creosote.

10. Now, for the don'ts. Do not use an old chimney without a proper liner. Do not use a chimney built on brackets. Do not use a chimney with poor mortar. Do not use a chimney built outside the exterior wall of the dwelling made of concrete block for wood heat. This type of chimney is too cold, promotes creosote buildup and has a very high chance of a chimney fire. Also, this type of chimney has a short life. Concrete block can be used for an inside chimney as long as the part above the roof is built of brick or stone. In other words, use a warm chimney surrounded by warm rooms.

This stove is not for mobile homes.

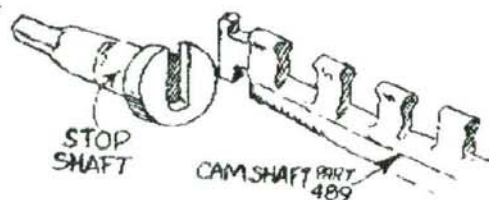
Should you have any question as to proper installation, you are strongly urged to seek specific advice. Too many severe accidents have occurred because of faulty installation. You may consult with the manufacturer and your local stove dealer in addition to the building inspector and fire marshal in your home town or state government. For further information on using your heater safely, obtain a copy of the National Fire Protection Association publication, "Using

Coal and Wood Stoves Safely," NFPA, HS-10-1978. The address of the NFPA is Batterymarch Park, Quincy, MA 02269.

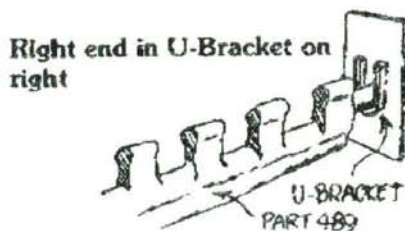
FULL COAL SYSTEM INSTALLATION INSTRUCTIONS:

The complete coal system is styrofoam packed in two cartons. No tools are needed and installation time is under 15 minutes.

1) Remove stop shaft plug on left rear of stove and insert stop shaft from the inside so that square portion of shaft faces left. The U-shaped channel should be open at the top on the inside.



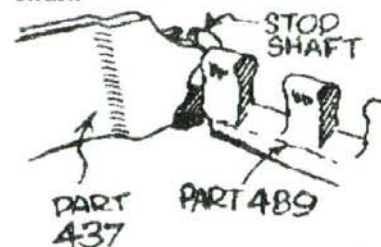
2) Insert the camshaft.



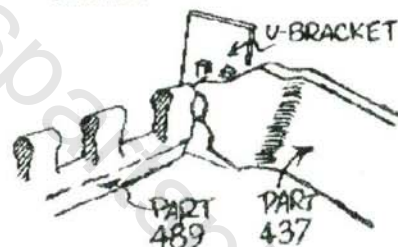
Flat end in stop shaft channel on left

3) The camshaft high-rise and low rise sections correspond exactly with the slotted support bracket already in the stove.

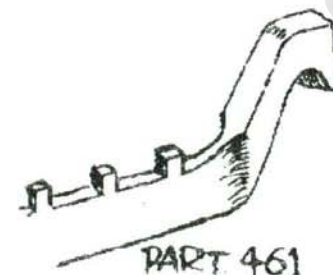
4) There are 21 grate pieces. The 2 end plates sit on extreme left and right sides of the camshaft. The left side end plate touches the end of the stop shaft.



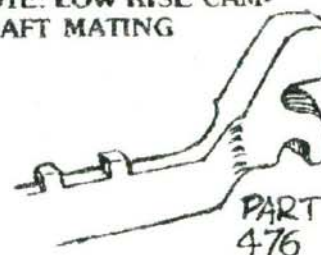
The right side end plate touches the end of the U-bracket.



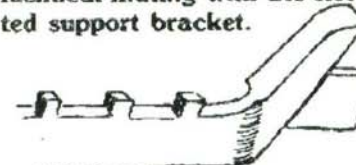
5) There are 10 4-nub pieces that begin and end the alternating array. NOTE: HIGH RISE CAMSHAFT MATING.



NOTE: LOW RISE CAMSHAFT MATING



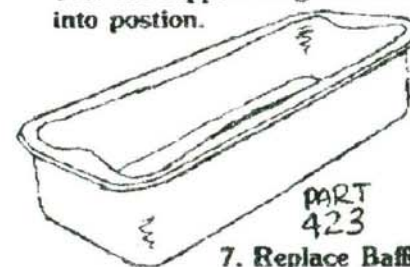
All moving grate pieces have identical mating with the slotted support bracket.



461 OR 476

5. Remove exhaust baffle. Slide up, lay flat.

6. Insert the Firepot by using a helper handle that is as long as the inside of the firepot (17 3/4"). Fit the handle under the crescent grips and lift all 47 pounds one end first into the stove. Line up the firepot over the support ring and lower into position.



7. Replace Baffle

Partial Coal System - Installation of Mini Firepot

1. Repeat steps 1-4
2. Remove two of the 4 nub pieces (3rd from both ends) and replace with mini-pot grate panels. These grate panels reduce secondary air by-pass

and create a fuel cylinder when the mini-pot is inserted

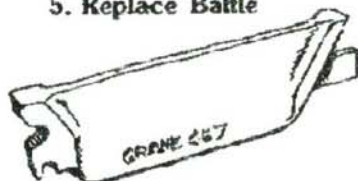
3. Remove Baffle

4. Insert Mini-Fire Pot



PART
432

5. Replace Baffle



SPRUCING UP THE STOVE

Your Model 404 can be adapted to accept a variety of exterior appearance packages. Each package has a mating system corresponding with holes that have been factory installed with knock out studs. These studs must be removed to reveal the hole.

To remove studs from stove wall, strike the exposed stud from the inside of the stove with a confident blow of an ordinary hammer. The front panel studs may require a center punch as your line of sight may be hampered. Once removed, these studs can not be replaced.

INSTALLING INLAID PARQUET SOAPSTONE

Tools required — scissors,

You are to make an airspace between the unexposed side of the soapstone and the outside of the stove to assure long service life. Take two 1"x1" gasket squares and press over each stud. Gasket material is provided for this.

Once gasketed, the panels are ready to be attached to the stove. Line the threaded pins up with the holes and slip all four in together. Pressing lightly with the palm of the hand on the exposed face of the soapstone, place the nuts on threads and tighten — finger tight. Using the pliers, tighten each nut only 1/2 turn more.

If you can not affix nuts to the lower pair of holes on the front panel, a nut driver will help. These nuts are not critical and you may elect to leave them off.

INSTALLING INLAID SOLID SOAPSTONE

Solid soapstone inlays have holes drilled in them that correspond with the holes in the stove. Take the threaded studs and place them in the holes from inside the stove facing out and secure with nuts. When finished the stove's inlay plates will have 4 rigid pins to mount the soapstone inlays. In this mounting system a second nut will hold the stone secure. This decorative nut is available at any lighting supply store. Ask your dealer for advice. Also, with this mounting system the first nut creates an air space but two gasket washers are still

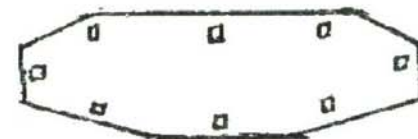
INSTALLING INLAID SOLID CAST ENGRAVING

Tools required — screwdriver

Cast engraved inlays have pre-drilled holes in the mounting bosses on the unexposed side. We recommend fitting the self tapping screw to each hole prior to mounting on the stove. Do this by laying inlay face down and inserting and removing each screw. Then place inlay in correct position on stove and re-insert screws. Again, use a double thickness of gasketing material at each hole location.

INSTALLING SOAPSTONE TOPS

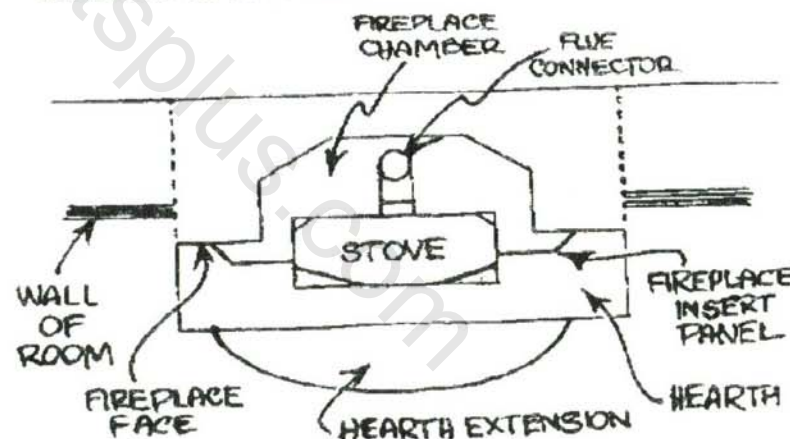
It is desirable to create an airspace between the underside of the soapstone and the top of the stove. Place gasketing material (provided) on the stove in the positions diagrammed prior to easing the top in position.



INSTALLING FIREPLACE INSERT PANEL

This panel is ready to slide on to a completely installed stove. It has a small service access door on the left and

right hand side. Open these, slide panel until it makes full contact with the fireplace, and close them again. Opening the left access door allows you to shake the stove.



VIEW FROM ABOVE