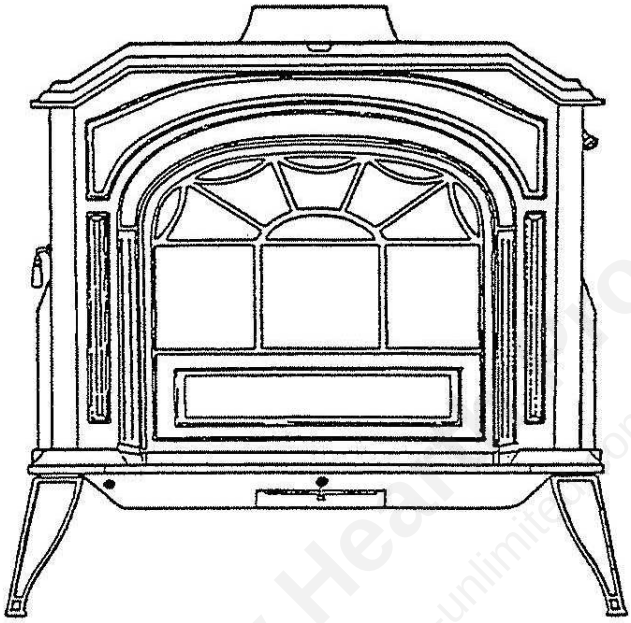
RESOLUTE ACCLAIM
SERVICE MANUAL



INDEX

RESOLUTE ACCLAIM DESIGN CHANGES

In April 1989 the Acclaim front was modified to incorporate a reinforced upper hinge boss. New fronts will show the letter "A" in the casting. Adjacent parts are comparable with both the old and new fronts.

In April 1989 the right and left sides were modified to accept a larger attaching cap screw (⅜ -16 x 1"). Adjacent parts are compatible with both old and new sides; however, the right and left core sides must be reamed to accept the larger attaching cap screws (⅜ -16 x1").

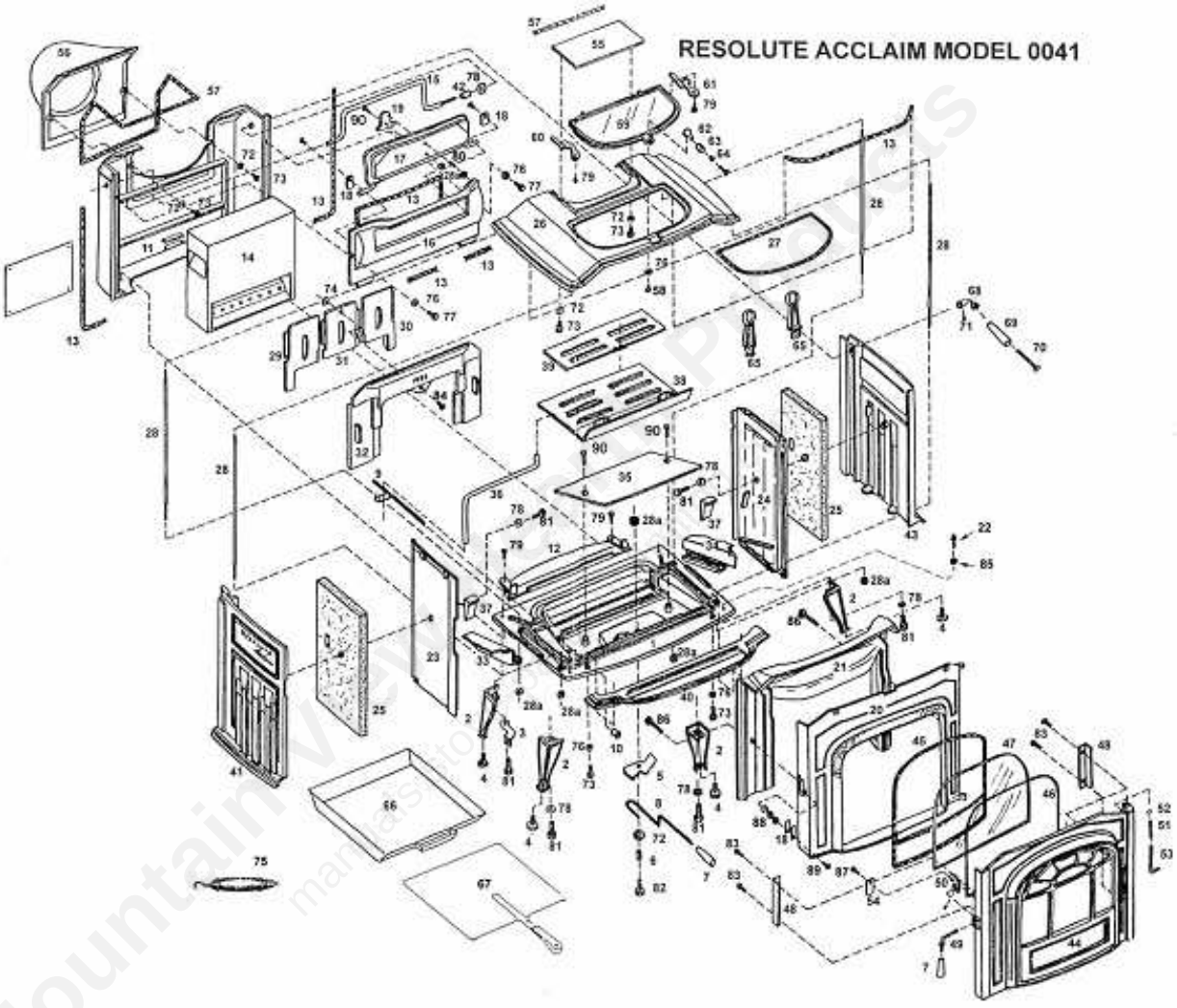
In April 1989 the right and left core sides were modified to accommodate the larger attaching cap screws (⅜ -16 x 1") see above.

In April 1989 the left core side was modified to provide a cast horizontal rib at the bottom for the grate actuator rod loop, improving the "grate shaking" operations. Both the old and new core sides are compatible with adjacent parts; however, during stove rebuild the new core side (letter "A") is the preferred part. In May 1989 an additional ½"x 1"x ⅛" tab was added to the loading door latch mechanism to increase latch strength and longevity.

In July 1989 both the lower fireback and the package support plate were modified to provide interlocking wedge shaped bosses on the upper side of the package support plate and the back side of the lower fireback. This change will prevent lower fireback warpage during sustained high heat firing. The improved package support plate will display the letter "A" and the improved lower fireback will display the letter "D". Both new parts are compatible with adjacent parts and old and new parts are interchangeable. However, to be effective, the new lower fireback and new package support plate must be replaced as a "set".

In September 1989 a new ashpan with handles was introduced to replace the old ashpan with cover. The new ashpan with handles will provide safer and easier ash removal.

As of the mid-nineties, core sides were no longer available. If the core sides are cracked around the bolts, then rebuild kit 0005892 must be used along with 2 new ends.



RESOLUTE ACCLAIM

MODEL #: **0041 RESOLUTE ACCLAIM**

FEATURES: TO STATIONARY GRATE IN 10/93. SHAKER GRATES ARE NO LONGER AVAILABLE. NEW GRATES MAY BE SUBSTITUTED FOR THE SHAKER GRATES BUT BOTH GRATES MUST BE REPLACED.

* denotes dead product - not available ** used only on units built prior to 10/93 with shaker grates

ITEM #	PART #	DESCRIPTION
1	130-1853*	Bottom - Substitute 130-1854
2	See Chart	Leg (4 Used)
3	160-0600	Handle Holder
4	120-1745	¼ -20 x 1" Hex Hd Leg Levellers
5	130-1814	Primary Air Valve
6	120-1846	Spring
7	160-0663	Air Valve/Door Handle
8	160-0621	Air Valve Shaft
9	160-0915**	Grate Actuator
10	160-0880**	Damper Pull
11	130-1815*	Back - Substitute 130-1860
12	130-1809	Package Support Plate
13	120-3588	5/16 Medium Density Gasket
14	160-2497	Combustion Package
15	160-0853	Damper Rod
16	130-1805	Upper Fireback Only
	500-0336	*Upper Fireback Damper Ass'y*
17	130-1829	Damper
18	160-1488	Damper/Door Tab
19	130-1811	Damper Ramp
20	130-1850*	Front - Not Available Substitute
	130-1861	*Front Acclaim II*
	130-1865	*Door Acclm II with 160-0155 Latch*
21	130-1803	Air Manifold
22	160-0419	Lower Door Hinge Pin
23	130-1848*	Left Core Side-Sub FB Repair Kit
24	130-1849*	Rt Core Side-Sub FB Repair Kit
25	120-3505*	Insulation
26	130-1800*	Top - Substitute 130-1862
27	120-3668	5/16" Fiberglass w/ Wire - 3.6'
28	160-1640	Tie Rod
	500-7499	*Tie Rod Set of 4 with Hex Nuts*
28a	30002229	Tie Rod Nut (replaces 120-3210)
29	130-1835	Arch Insert Left
30	130-1837	Arch Insert Right
31	130-1838	Arch Insert Center
	000-5862	*Set of Three Arch Inserts With Nut & Bolt*
32	130-1826	Lower Fireback
33	130-1836*	Left Shoulder Plate - Sub. 130-1863
34	130-1822*	Right Shoulder Plate - Sub. 130-1864
35	130-1804	Pit Plate
36	160-0914	Grate Rod (Used With Shaker Grates)
37	130-1810	Wedge
38	130-1852	Front Grate (Stationary) Replaced 130-1828
39	130-1851	Rear Grate (Stationary) Replaced 130-1820
40	130-1819	Ash Lip
41	130-1801*	Left End -Substitute Fireback Repair Kit
42	120-1780	Damper Rod Spacer
43	130-1802*	Right End -Substitute Fireback Repair Kit

ITEM #	PART #	DESCRIPTION
44	130-1818*	Door - Sub 130-1865+160-0155/160-0623/120-3290
45	120-3564	1/2" Fiberglass Low Density 6' Used
46	120-3556	3/16" Fiberglass 4' Used
47	140-1120	Glass IR Coated Outside
48	160-1399	Glass Retainer (2 Used)
49	160-0623	Door Handle Shaft Only
50	130-1813	Door Hook (Latch)
51	160-0551	Compression Spring For Upper Door Pin
52	160-0553	C-Clip For Upper Door Pin
53	160-0550	Upper Door Pin
54	120-1843	Latch Spring (Mounted On Rear of Door)
55	130-1817	Flue Collar Extension
56	130-1816	Flue Collar
57	120-3591	5/16" Adhesive Backed Fiberglass
58	120-1308	Griddle Handle Screw
59	130-6356	Griddle
60	130-1807	Left Griddle Quadrant
61	130-1832	Right Gridle Quadrant
62	160-0881	Griddle Handle Stub
63	160-0661	Griddle Knob
64	120-1900	Bushing
	000-4360	*Griddle Handles Complete (58,60,61,62,63,64,78)*
65	130-1806	Andiron
66	500-5774	Original Ashpan Ass'y - Use With Shaker Grates
	500-5775	New Ashpan Ass'y - Use With Stationary Grates
67	140-0935*	Ashpan Cover Original Ashpan
68	500-4265	Damper Handle Stub Nickel With Set Screw
69	160-0664	Damper Handle Wood Part Only
70	120-1310	¼ -20 x 3" Slotted Pan Hd Handle Screw
71	120-0563	Damper Handle Set Screw 5/16-18 x 5/16"
72	120-2474	1/4 Standard Flat Washer
73	120-1372	¼ -20 x 5/8" Hex Head Cap Screw
74	120-3329	¼ -20 Square Nut
75	000-4349	Wireform Handle Complete (Not With All Units)
76	120-2473	1/4 Flat Washer
77	120-1374	¼ -20 x 3/4" Hex Head Cap Screw
78	120-2488	3/8" Flat Washer
79	120-1338	¼ -20 x 1/2" Hex Head Cap Screw
80	120-0436	¼ -20 x 1" Socket Set Screw
81	120-1432	3/8-16 x 1" hex Head Cap Screw
82	120-1378	¼ -20 x 1¼ " Hex Head Cap Screw Flat Head Zinc
83	120-0984	10-24 x 3/8" Phillips Pan Head Screw
84	120-1376	¼ -20 x 1" Hex Head Cap Screw
85	120-3279	Hex Nut 5/16-18 Black
86	120-1392	¼ -20 x 2" Hex Head Cap Screw
87	120-0996	10-24 x 1/4" Phillips Truss Head Screw Zinc
88	120-2475	Washer, 1/4 Flat Narrow
89	120-0461	¼ -20 x 3/4" Socket But Head Cap Screw
90	120-0809	¼ -20 x 1" Phillips Flat Head Black

ACCLAIM 0041 HARDWARE

120-1322 10 -24 x ½ " Hex Head Cap Screw Zinc
(6-bottom assembly)

120-1432 3/8-16 x 1" Zinc Hex Head Cap Screw
(4-legs, 2-core sides [replaces 120-0482])

120-2488 Washer, Flat ⅜ .442 id Zinc
(1-damper rod, 2-core sides, 4-legs)

120-1745 ¼ -20 x 1" Hex Head Leveller Bolts
(4-legs)

120-1378 ¼ -20 x 1¼ " Hex Head Cap Screw Flat Head Zinc
(1-primary air valve)

120-2472 Washer, ¼ Flat .266 id x 1 od SS
(1-primary air valve)

120-1846 Spring, Friction
(1-primary air valve)

120-3210 Nut, Hex Head ¼ -20 Plain
(2-damper ramp, 1-primary air valve)

120-1338 ¼ -20 x ½" Hex Head Cap Screw Black Gr 5
(2-package supports , 2-damper tabs to upper fireback, 2-griddle quads)

120-0996 10-24 x ¼ " Phillips Truss Head Screw Zinc
(4-heat shield holes in back, 1-front door latch spring, 1-griddle handle)

120-0436 ¼ -20 x 1" SS Oval Point Socket Screw Black
(1-damper ramp adjuster)

120-0809 ¼ -20 x 1" Phillips Flat Head Black
(2-pit plate, 1-damper ramp)

120-1374 ¼ -20 x ¾" Hex Head Cap Screw Black
(2-upper fireback)

120-2473 Washer, ¼ Flat .266 id x .629 od
(2-ash lip, 2-upper fireback, 1-right end, 1-griddle handle)

120-1392 ¼ -20 x 2" Hex Head Cap Screw Zinc
(2-air wash manifold)

120-3279 Nut, Hex 5/16 -18 Black
(1-hinge pin)

120-1376 ¼ -20 x 1" Hex Head Cap Screw Black Gr 5
(1-center arch insert)

120-3329 Nut, Square ¼ -20
(1-center arch insert)

160-1488 Damper Tab
(2-door catch on stove front, 2-damper)

120-0461 ¼ -20 x ½" Socket But Head Cap Screw Black
(1-door catches on stove front)

120-2475 Washer, ¼ Narrow Flat .275 id x .5 od
(4-door catch on stove front)

160-0623 Shaft Only
130-0813 Hook For Door Latch
160-0663 Handle, Hard Wood Black
(1-primary air assembly, 1-door handle assy)

160-0551 Spring
(1-upper hinge pin of front door)

160-0550 Hinge Pin
(1-front door)

160-0553 C-Clip
(hinge pin on front door)

120-0330 10-24 x ½" Socket Cup Point SS
(1-griddle handle stub)

120-2474 Washer, ¼ Flat .131 id x .742 od Zinc
(2-flue collar, 2-extension plate)

120-3251 Nut, Hex 10-24 Zinc
(1-griddle handle stub)

120-1308 8-32 x 1" Phillips Pan Head Zinc
(1-griddle handle)

120-1900 Bushing, Griddle Handle

120-1310 ¼ -20 x 3" Slot Pan Head Screw Zinc
(1-damper stub)

30002229 Nut, Hex Head ¼ -20 Flex Lock CDPLT (rep 120-3213)
(4-tie rods, 1-primary air valve to bottom)

120-0563 5/16-18 x 5/16" Socket Set Screw
(1-damper stub)

120-1780 Spacer ⅜ x 1" Zinc
(1-damper rod)

120-1780 Spacer ⅜ x 1" Zinc
(1-damper rod)

120-3290 Nut, Jam Large Hex
(1- latch to door shaft)

120-2560 Washer, Narrow Flat 3/8" Zinc
(1- door handle)

120-1843 Spring, Latch
(1-back of door for hook)

120-1372 ¼ -20 x 5/8" Hex Head Cap Screw Black
(2-ashlip, 2-flue collar, 2-flue collar extension)

120-0984 10-24 x ⅜ " Phillips Round Head Screw
(4-glass retainers)

120-1846 Friction Spring
(1-primary air assembly)

30001749 Pin, Cotter
(1-ashdoor hinge pin)

120-0991 10-24 x ½" Zinc Philips Pan Head Screw
(1-left manifold to door right screw)

160-0616 Hinge Pin Upper
(2-door assemblies)

160-1396 Glass Clip, Long .75"
(6-glass panels)

120-8608 Pin, Hinge
(1-ashdoor)

120-1864 Eyelet, Thermostat Wire

160-1488 Tab, Damper
(3-damper assembly)

160-1036 Clip, Torsion Bar (Damper Rod)

160-0617 Hinge Pin Lower
(2-door assemblies)

160-1394 Glass Clip, Short .62"
(2-glass panels)

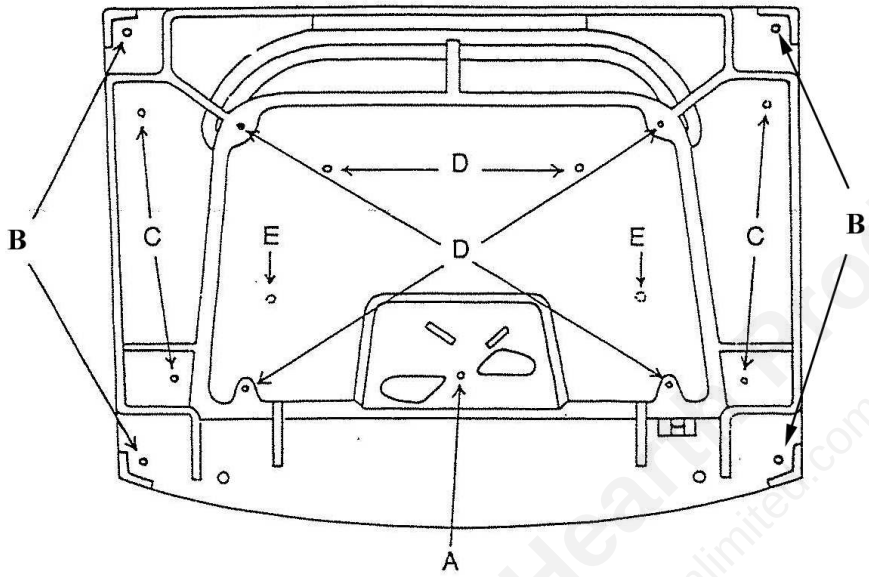
RESOLUTE ACCLAIM DRILL & TAP GUIDE

KEY	DRILL	DEPTH	TAP SIZE#	TAP TYPE
A	**13/64”**	**THRU**	**¼ - 20**	**TAPER**
B	**5/16”**	**THRU**	**⅜-16**	**TAPER**
C	**9/32”**	**THRU**		
D	**#22**	**THRU**	**10-24**	**TAPER**
E	**13/64”**	**½”**	**¼ - 20**	**BOTTOMING**
F	**13/64”**	**5/16”**	**¼ - 20**	**BOTTOMING**
G	**13/64”**	**⅜”**	**¼ - 20**	**BOTTOMING**
H	**¼”**	**THRU**		
I	**#29**	**5/16”**	**8-32**	**BOTTOMING**
J	**#22**	**¼”**	**10-24**	**BOTTOMING**
K	**“F”**	**THRU**		
L	**“F”**	**THRU**	**5/16-18**	**TAPER**
M	**7/16”**	**THRU**		
N	**5/16”**	**5/8”**	**⅜-16**	**BOTTOMING**
O	**9/16”**	**THRU**		
P	**#29**	**THRU**		
Q	**29/64”**	**THRU**		
R	**“W”**	**THRU**		
S	**#22**	**5/16”**	**10-24**	**BOTTOMING**

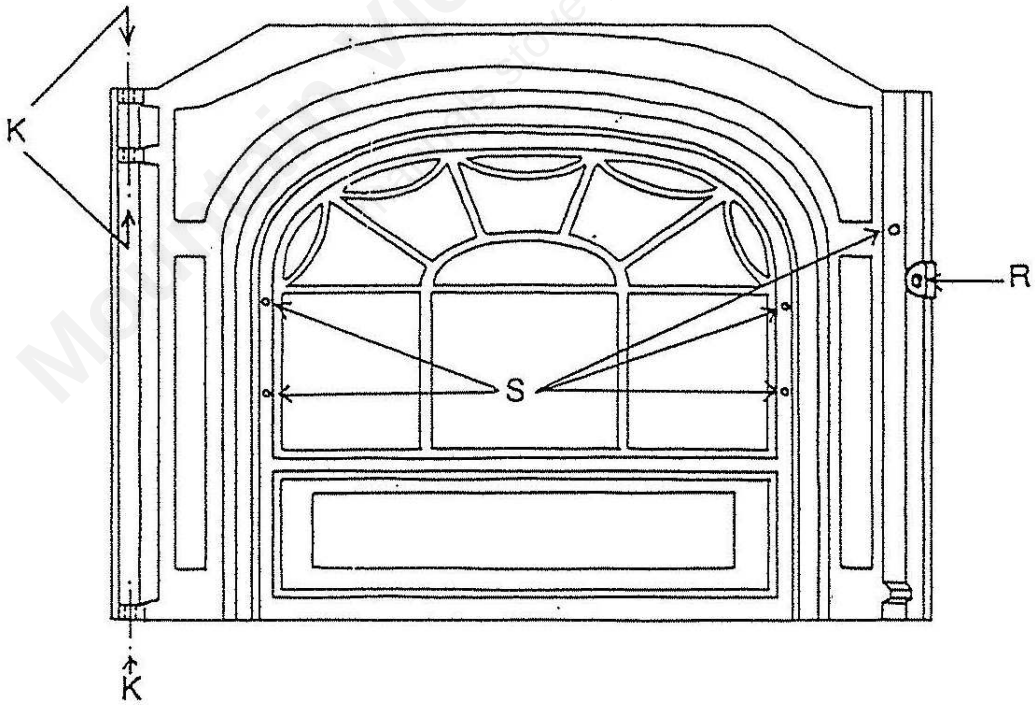
NOTE: When threading to the bottom of a blind hole always finish with a bottoming tap after cleaning the hole of all chips.

RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS

BOTTOM (underside)

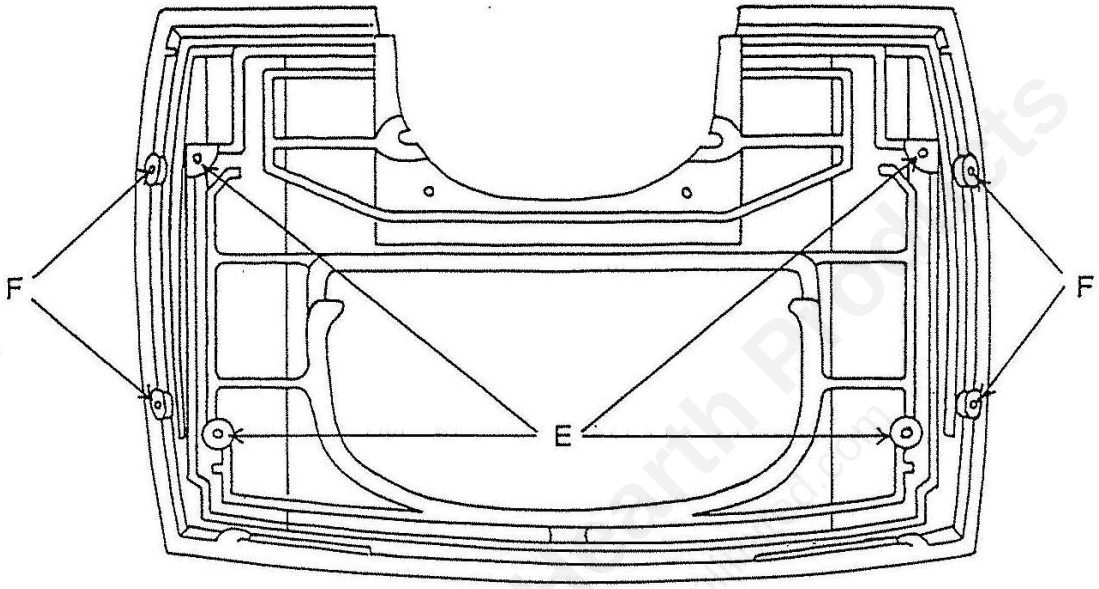


LOADING DOOR (inside view)

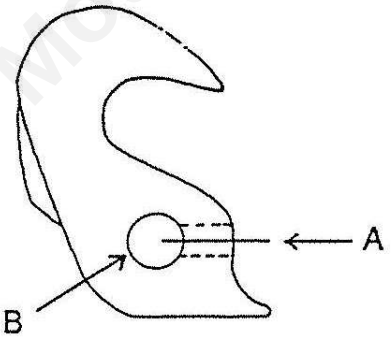


RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

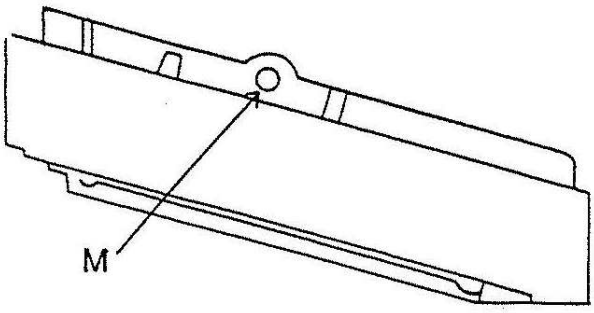
TOP (underside)



DOOR HOOK

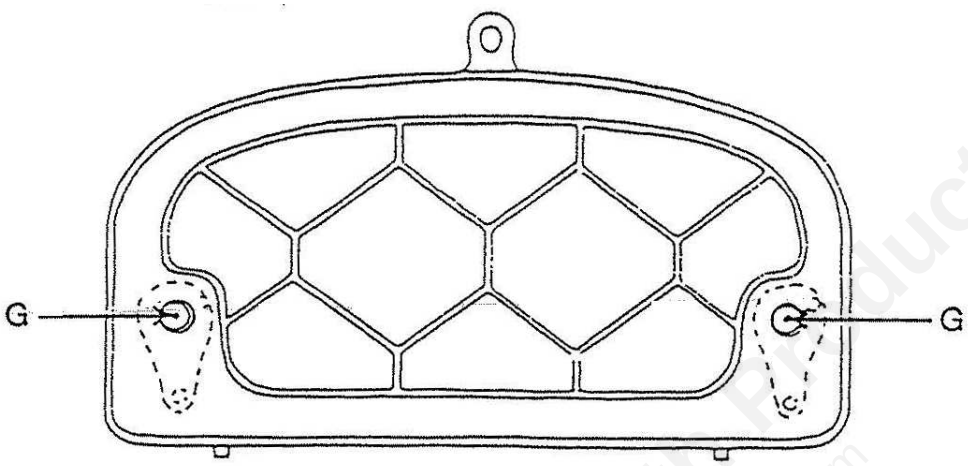


LEFT SHOULDER PLATE

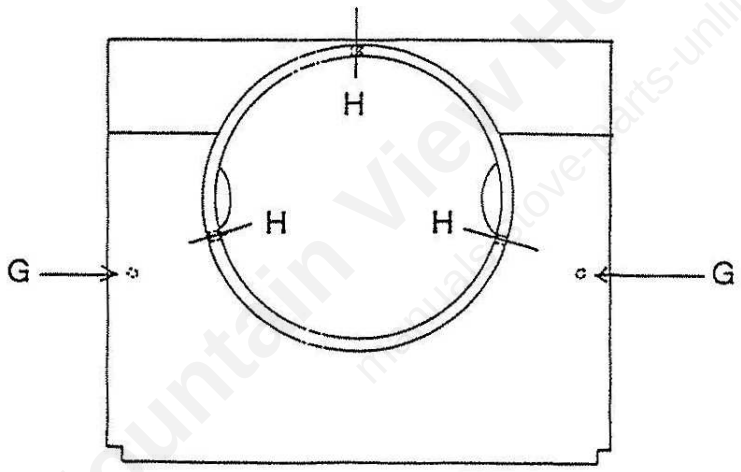


RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

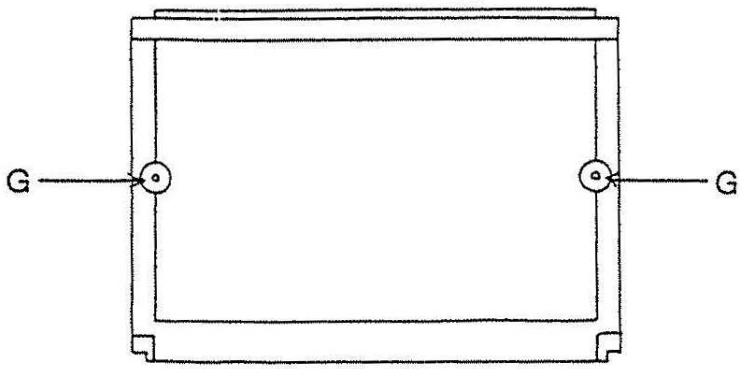
GRIDDLE (underside)



FLUE COLLAR (top view)

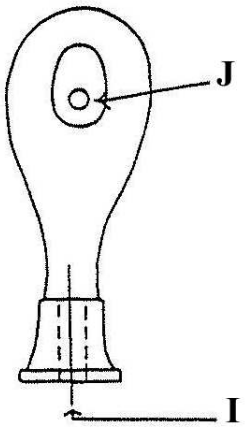


FLUE COLLAR EXTENSION (underside)

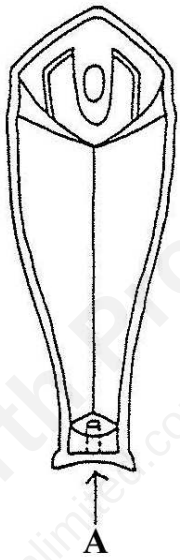


RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

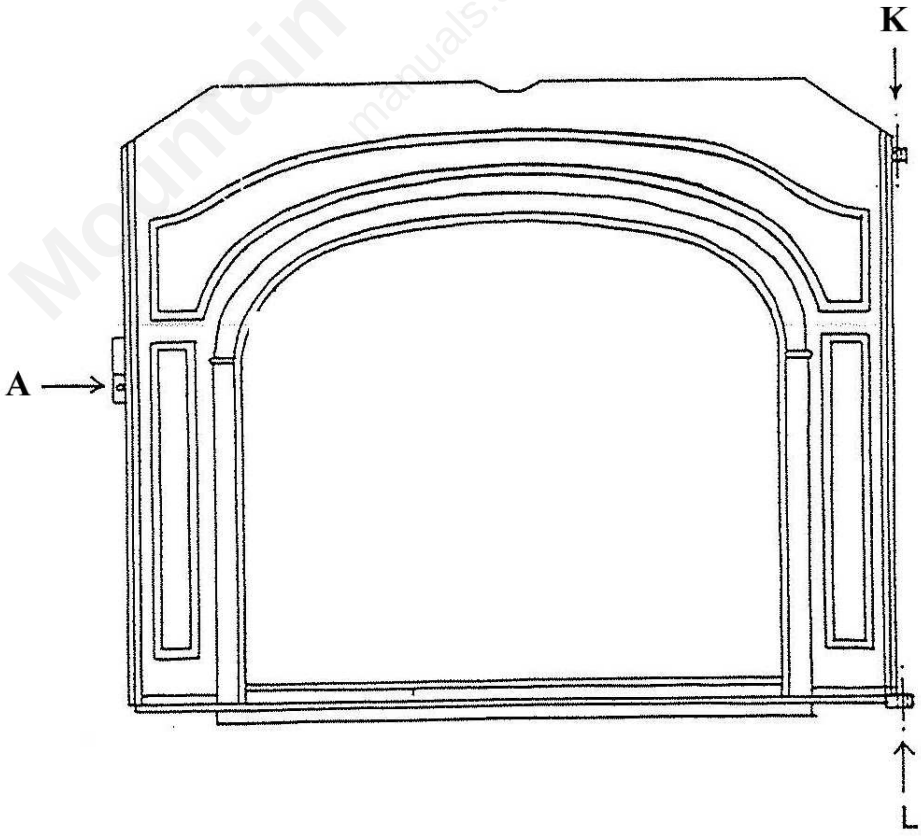
GRIDDLE HANDLE STUB



LEG

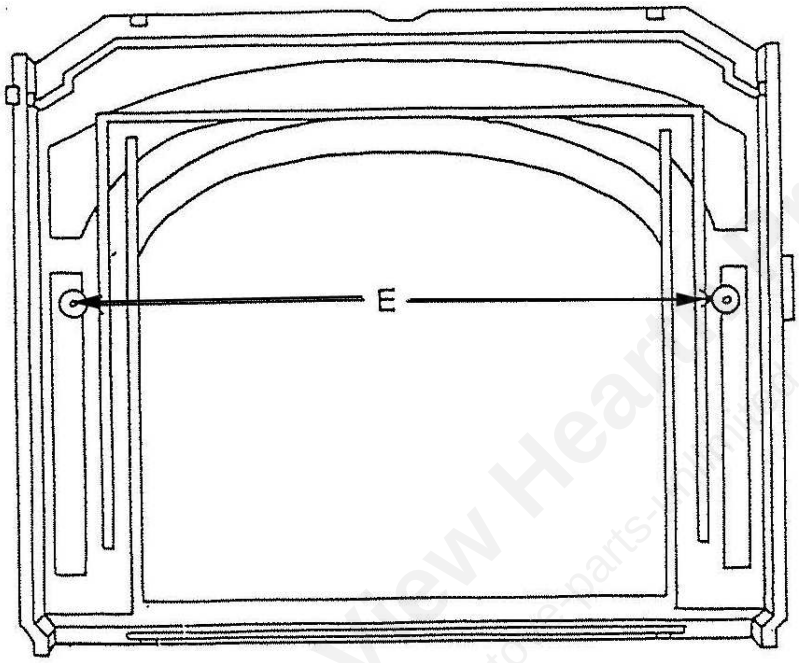


FRONT (outside view)

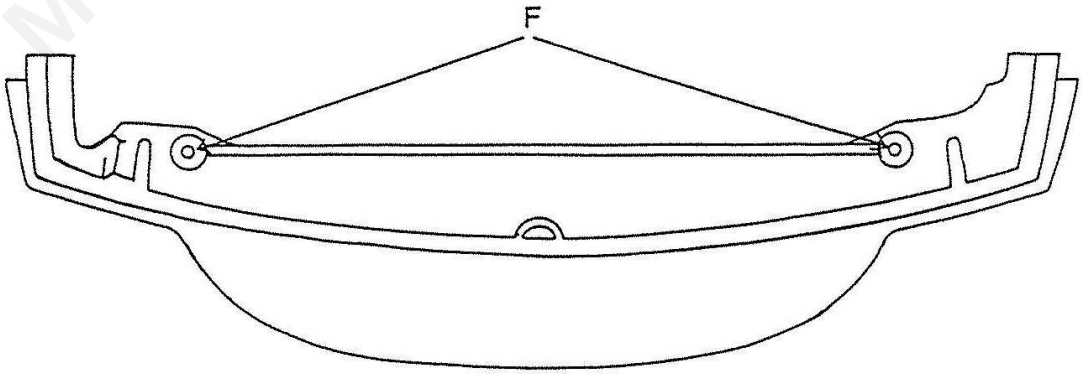


RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

FRONT (inside view)

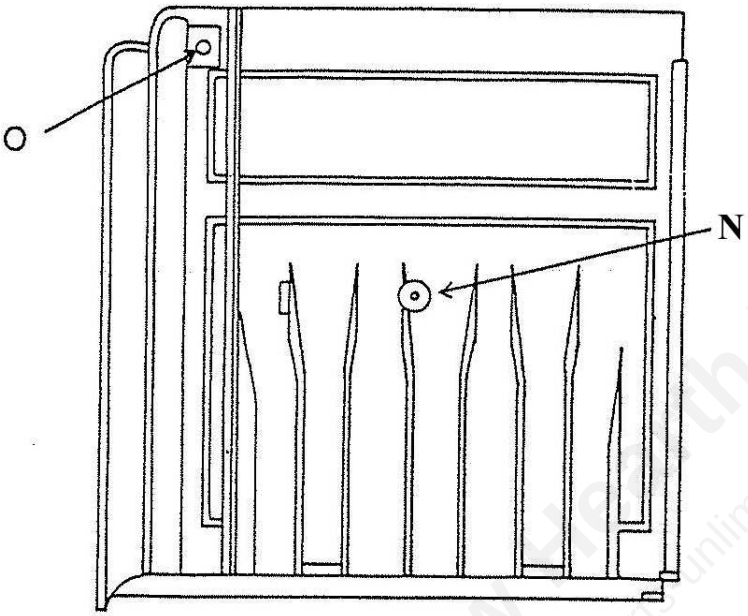


ASH LIP (underside)

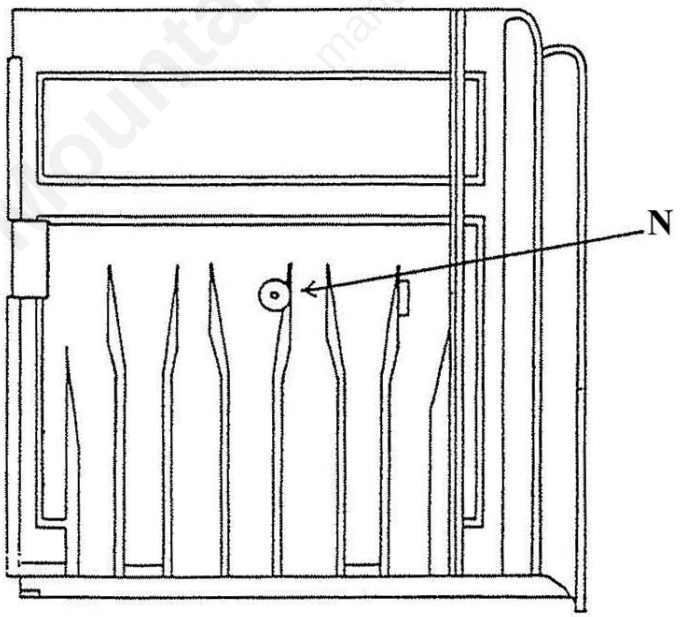


RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

RIGHT END (inside view)

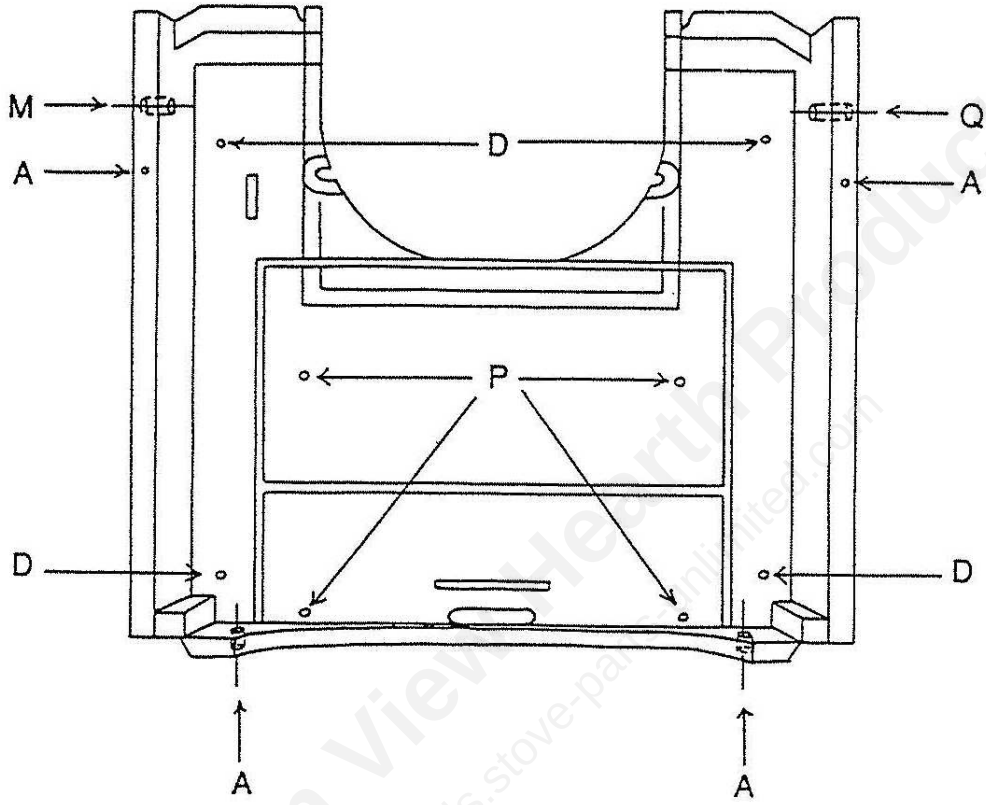


LEFT END (inside view)

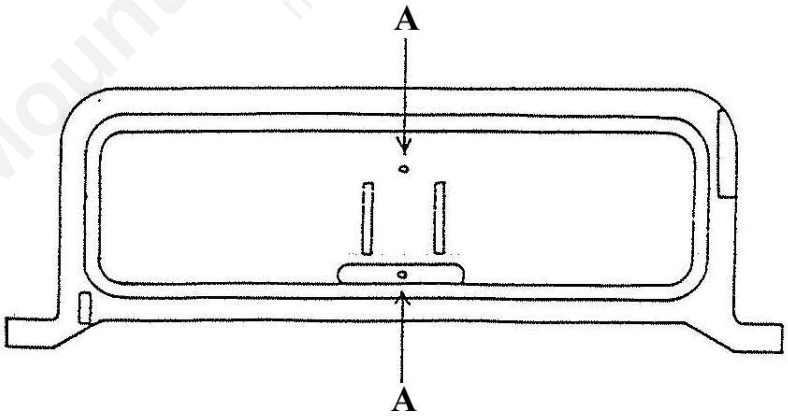


RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

BACK (inside view)

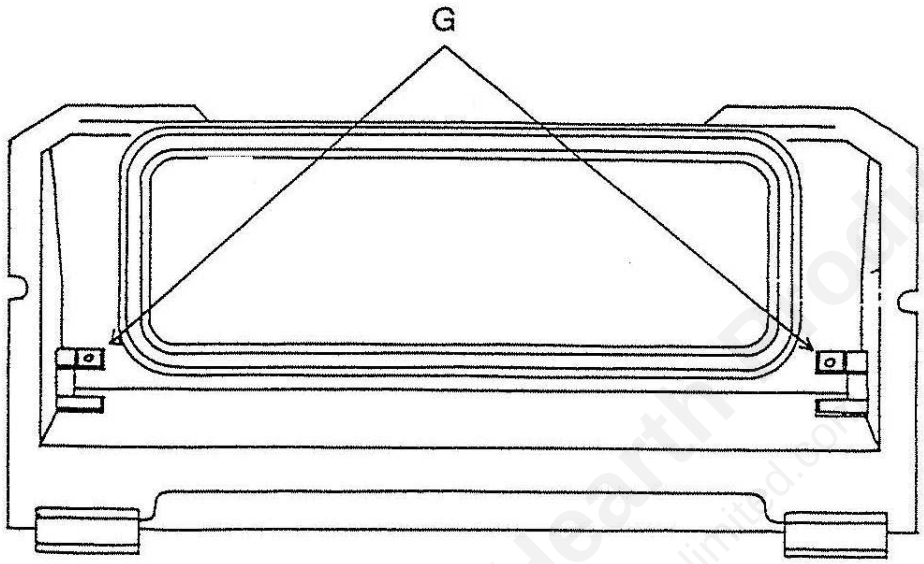


DAMPER



RESOLUTE ACCLAIM DRILL AND TAP ILLUSTRATIONS CONT…

UPPER FIREBACK



RESOLUTE ACCLAIM – INDIVIDUAL REPAIR PROCEDURES SECTION

REPLACING THE DAMPER AND/OR DAMPER TABS

TOOLS REQUIRED: **7/16" SOCKET, ⅜" DRIVE**
RATCHET HANDLE, ⅜" DRIVE
EXTENSION SOCKET WRENCH, 10" LONG X ⅜" DRIVE
WIRE BRUSH
DROP LIGHT

STEP#1 Disconnect the flue collar from the chimney connector.

STEP#2 Remove the griddle, open the loading door and place the damper in the updraft position.

STEP#3 Remove the flue collar and flue collar extension using your ¼ - 20 socket wrench.

STEP#4 Reaching through the flue collar opening, remove the two 7/16" cap screws and damper tabs securing the damper pivots. Be careful not to drop either the cap screws or tabs into the secondary combustion exhaust passages.

STEP#5 Holding the damper upright maneuver one end into the rear corner of the stove back and the opposite end through the damper opening of the upper fireback. Pull the damper out through either the flue collar opening or through the loading door.

STEP#6 If the damper requires replacement, transfer the damper "D" plate, adjusting screw and lock nut to the new damper.

STEP#7 Reassemble the stove in reverse sequence.

STEP#8 Close and lock the damper several times to check for proper operation. adjust the damper ramp ("D" Plate) to provide a tight positive lock retaining ease of operation.

REPLACING THE DAMPER ACTUATOR ROD, SPACER AND WASHER

TOOLS REQUIRED:

9/16" SOCKET, ⅜" DRIVE
7/16" SOCKET, ⅜" DRIVE
RATCHET HANDLE, ⅜" DRIVE
EXTENSION, SOCKET WRENCH, 6" LONG X ⅜" DRIVE
HEX SOCKET KEY WRENCH (ALLEN), 5/32"
HAMMER, SOFT FACE
DROP LIGHT
WIRE BRUSH

STEP#1 Remove the damper handle stub with your 5/32" hex socket key wrench.

STEP#2 Reach inside the stove and remove the ⅜"- 16 cap screw and washer that secures the right side to the right core side.

STEP#3 Remove the right side by pulling the bottom edge out from the stove 45°-60° thus clearing the end of the damper actuator rod. Remove the ⅜" washer and spacer from the end of the rod.

STEP#4 Remove the griddle, ashpan, andirons, and loading door. Remove the movable (upper) grate. Remove the stationary (lower) grate.

STEP#5 Reach inside the stove and tap the wedges securing the lower fireback upward with your soft face hammer. Remove the wedges and lower fireback with arch inserts attached from the stove.

STEP#6 Two ¼ - 20 cap screws with washers secure the upper fireback to the inside flange of the stove back. Loosen one cap screw at least two full turns and remove the other cap screw and washer. Remove the upper fireback .

STEP#7 Reach inside the stove and slide the damper actuator rod to the right until the left end of the rod is free of its drilling in the stove back. Pull the free left end of the actuator rod into the stove body gently so as not to bend the actuator rod or damage the right drilling in the stove back. When the right end of the actuator rod clears the right drilling of the stove back, remove the rod from the stove.

STEP#8 With the stove disassembled to this extent, examine the secondary combustion package. Clear the package and exhaust passages with your shop vacuum. Clear the secondary air passages of all ash and debris (see figures R-1 & R-2 next page).

Examine the damper gasket and the gasketing on the Stove back flange. If the gasketing is damaged, broken or dried up, replace it following the procedure set forth in the gasketing section of this manual.

REPLACING THE DAMPER ACTUATOR ROD, SPACER AND WASHER CONT….

Fig. R-1
INSIDE VIEW OF STOVE SHOWING LOWER
FIREBACK ASSEMBLY REMOVED

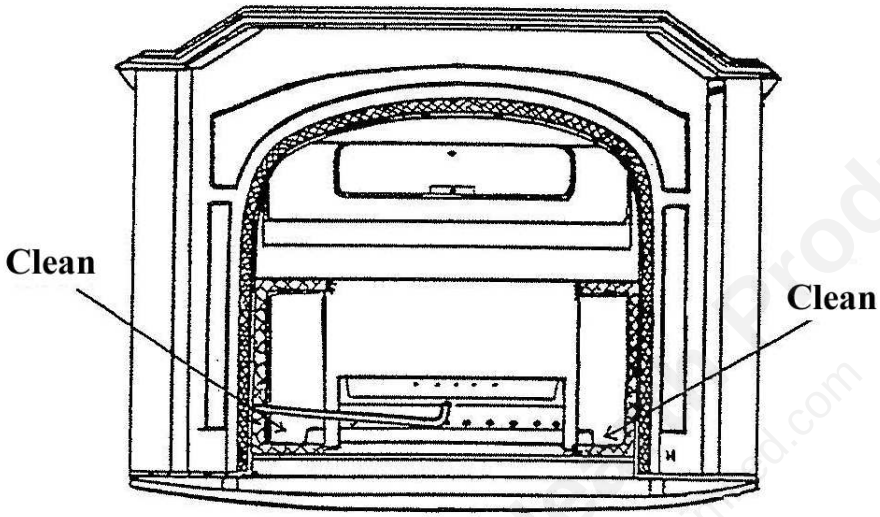
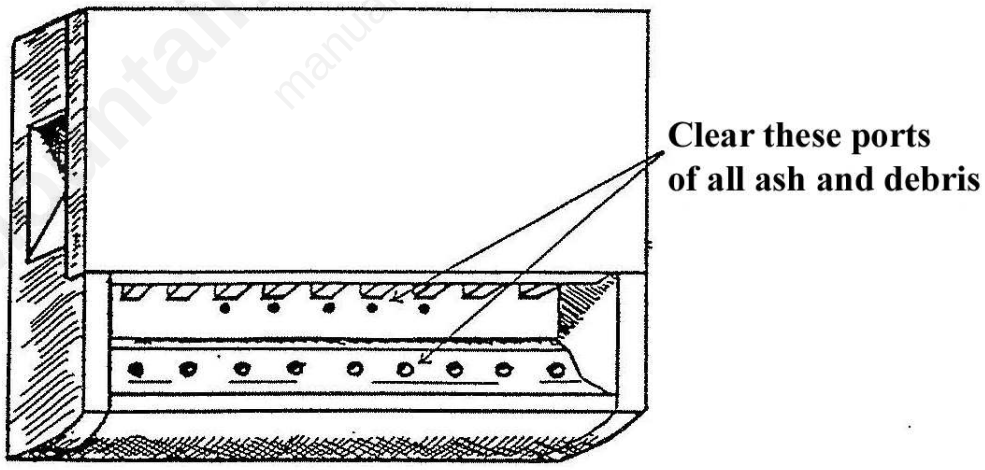


Fig. R-2
SECONDARY COMBUSTION PACKAGE SHOWING
SECONDARY AIR ENTRY PORTS



REPLACING THE DAMPER ACTUATOR ROD, SPACER AND WASHER CONT….

STEP#9 When all necessary cleaning and regasketing is completed, re-Assemble the stove with repaired and/or replaced parts in Reverse sequence. See figures R-3 & R-4 below.

Fig. R-3
RIGHT END OF DAMPER ACTUATOR ROD SHOWING SPACER AND WASHER SEQUENCE.

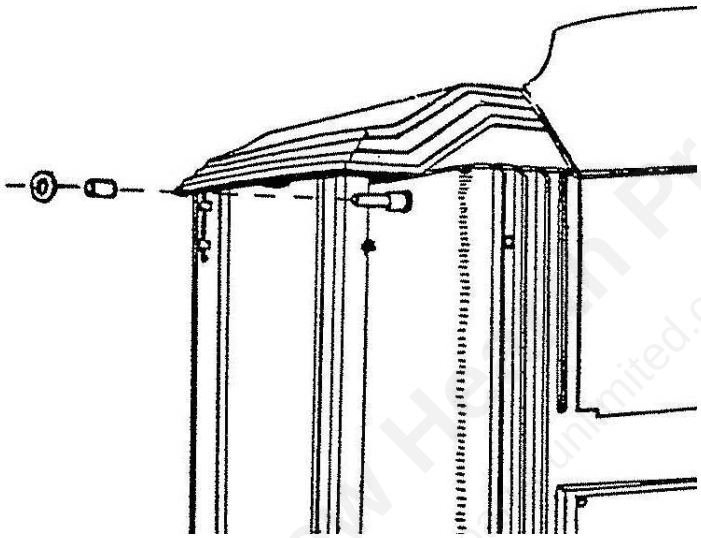
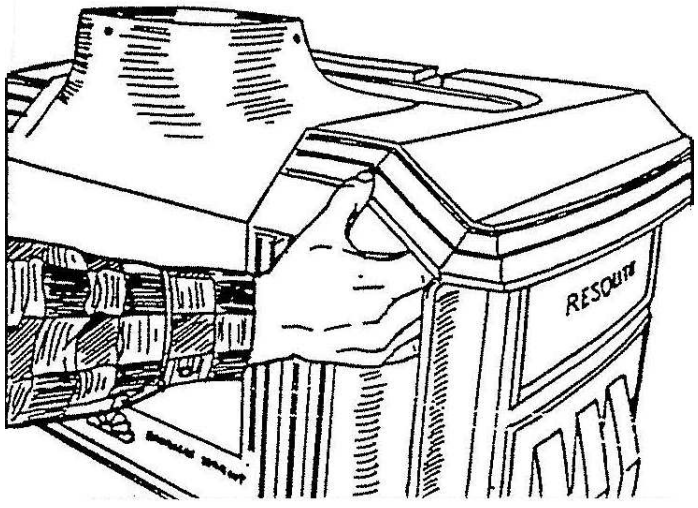


Fig R-4

VIEW OF STOVE BACK SHOWING LATERAL POSITIONING OF THE DAMPER ROD



****TIP!!** **When replacing the upper fireback, angle one end into position behind the washer and cap screw you left in place during disassembly. Swing the opposite end of the fireback into position and install the lower fireback assembly into position with its wedges in their slots loosely. This will allow you to tap the upper fireback right, left, up or down in order to align the tapped drilling in the stove back flange with the slot in the upper fireback. When the upper fireback is tightly secured make sure you drive the wedges down tightly to secure the lower fireback assembly.**

REPLACING AND/OR REGASKETING THE UPPER FIREBACK

TOOLS REQUIRED:

HEX SOCKET KEY (ALLEN) WRENCH, 5/32"
SOCKET, SOCKET WRENCH, 7/16", ⅜" DRIVE
HANDLE, RATCHET, ⅜" DRIVE
EXTENSION, SOCKET WRENCH, ⅜" DRIVE, 10" LONG
HAMMER, SOFT FACE
HAMMER, BALL PEEN
PUNCH, DRIVE PIN, ¼"
WIRE BRUSH, HAND OR POWER
GASKET CEMENT, 3 OZ. TUBE
PUTTY KNIFE

STEP#1 Remove the griddle, loading door, andirons, ashpan, movable and Stationary grates and thoroughly clean the firebox and ash drop area of the stove.

STEP#2 Reach inside the stove and tap the wedges securing the lower fireback assembly upward with your soft face hammer. Remove the wedges and lower fireback with arch inserts attached from the stove.

STEP#3 Two ¼ - 20 hex head cap screws with washers secure the upper fireback assembly to the inside flange of the stove back. Loosen one cap screw at least two full turns and remove the other cap screw and washer. Remove the upper fireback assembly.

STEP#4 With the stove disassembled to this extent examine the secondary combustion package. Clean the package and exhaust passages with your Shop vacuum. Clear the secondary air passages of all ash and debris(see Figures R-1 & R-2 on page 17). Examine the damper gasket and the gasketing on the stove back flange. If the gasketing is damaged, broken or dried up, replace it, following the procedure set forth in the gasketing section of this manual.

STEP#5 When all necessary cleaning and regasketing is completed, reassemble the stove with repaired and/or replaced parts in reverse sequence.

****TIP!!** **When replacing the upper fireback, angle one end into position behind the washer and cap screw you left in place during disassembly. Swing the opposite end of the fireback into position and install the lower fireback assembly into position with its wedges installed loosely in their slots. This will allow you to tap the upper fireback right, left, up or down in order to align the tapped drilling in the stove back flange with the slot in the upper fireback. When the upper fireback is tightly secured make sure you drive the wedges down tightly, to secure the lower fireback assembly.**

REPLACING THE LOWER FIREBACK AND THE COMBUSTION PACKAGE SUPPORT PLATE

TOOLS REQUIRED:

HAMMER, SOFT FACE
SOCKET, 7/16", ⅜" DRIVE
HANDLE, RATCHET ⅜" DRIVE
EXTENSION, SOCKET WRENCH, ⅜" DRIVE
COLD CHISEL, ⅜"
HAMMER, BALL PEEN
WIRE BRUSH, HAND OR POWER
CAULKING GUN FRAME
FURNACE CEMENT, 11 OZ TUBE
2"X 4", 8"-10" LONG (FULCRUM)
1"X 4", 15"-18" LONG (LEVER)
PUTTY KNIFE

STEP#1 Remove the griddle, loading door, andirons, movable grate, stationary grate, and ashpan.

STEP#2 Remove the lower fireback assembly, tap the wedges securing the lower fireback assembly up and out of their recesses with the soft face hammer. Lift the lower fireback assembly out of the stove.

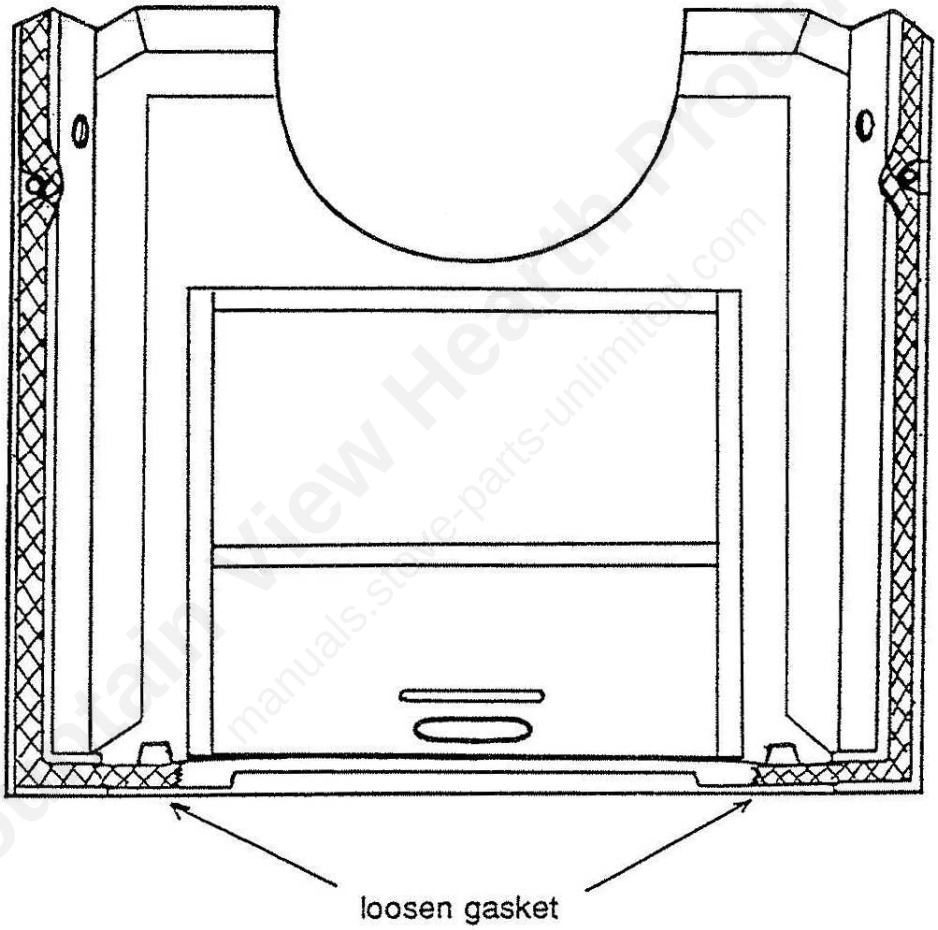
STEP#3 Remove the upper fireback assembly. Loosen one of the ¼ - 20 x ¾" hex Head cap screws 2 full turns with a 7/16" wrench. Completely remove the hex head cap screw and washer on the opposite side. Slide the upper fireback assembly from behind the remaining cap screw and washer and remove it from the stove.

STEP#4 Gently lift out the secondary combustion package and set it aside in a safe location.

STEP#4 Carefully loosen the gasket ends that are cemented to the tabs of the Combustion package support plate with a putty knife. See figure R-5 next page.

RESOLUTE ACCLAIM REPAIR PROCEDURES

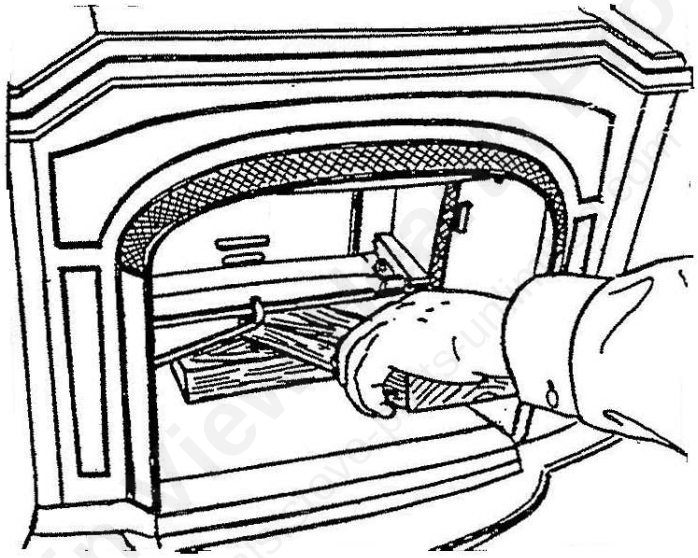
Fig. R-5
INSIDE VIEW OF THE STOVE BACK WITH THE PACKAGE SUPPORT PLATE IN PLACE.



STEP#6 Remove the two ¼ - 20 x ½" hex head cap screws that secure the combustion package support plate to the bottom of the stove back with your 7/16" wrench.

STEP#7 Place the short 2"x 4" into the rear of the stove bottom parallel to the stove back to act as a fulcrum. Using the 15"-18" long 1"x 4" as a lever, pry the combustion package support plate upward, loosening it from the bottom of the stove back (see figure R-6).

Fig. R-6
INSIDE VIEW OF STOVE SHOWING THE
PACKAGE SUPPORT PLATE BEING PRIED UP.

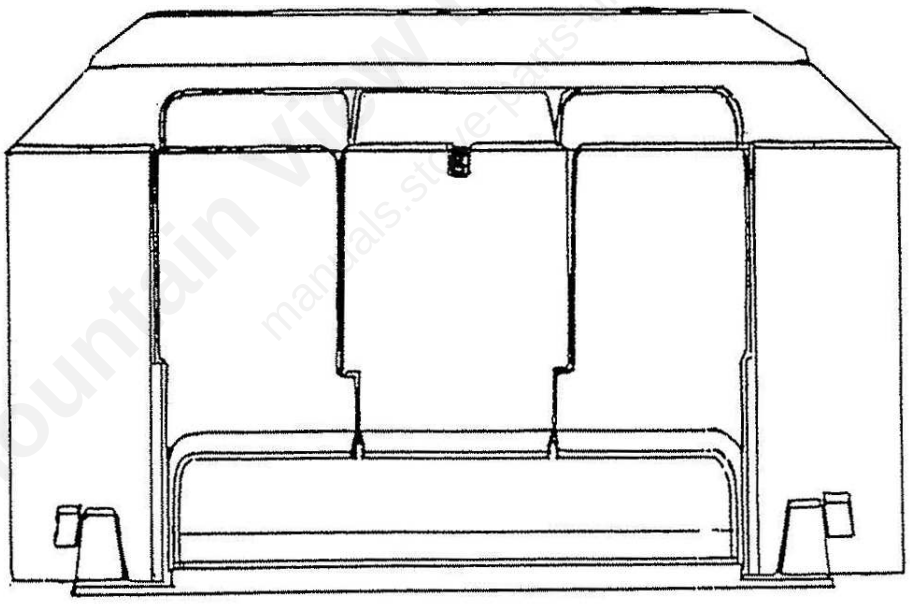


STEP#8 Carefully and thoroughly clean all the old furnace cement from the combustion package support plates cement flange in the bottom of the stove back with your ⅜" cold chisel, ball peen hammer and wire brush.

STEP#9 Lay a ¼" bead of cement along the entire cement flange in the bottom of the stove back as shown in figure C-3 further on in the manual. Install the new combustion package support plate in its freshly cemented flange in the bottom of the stove back and secure it with two each ¼ - 20 x ½" hex head cap screws. Cement the front of the two wedge shaped vertical lugs on each end of the combustion package support plate and press the gasket ends into position (See figure G-1 on page 49).

STEP#10 Reassemble the stove in reverse sequence with this exception. After cleaning and placing the combustion package into position, slide the end of the upper fireback assembly behind the cap screw and washer that you left in the stove back flange. Swing the opposite end into its installed position. Holding the upper fireback assembly in place, install the lower fireback assembly into position (see figure R-7) and drop the two wedges into their slots. This will allow you to tap the upper fireback assembly up, down, right or left enabling you to install the remaining cap screw and washer. After tightening both cap screws securing the upper fireback assembly, drive the two wedges securing the lower fireback assembly down, thus securing the lower fireback assembly.

Fig R-7
REVERSE VIEW OF THE PACKAGE SUPPORT PLATE AND THE LOWER FIREBACK ASSEMBLY SHOWING THE ENGAGEMENT OF THE LUGS OF THE LOWER FIREBACK WITH THE LUGS OF THE PACKAGE SUPPORT PLATE.



REPLACING THE SIDE PLATES AND/OR THE INSULATION BATTS

- **Keep in mind as of the mid-nineties, the sides, core sides and insulation panels were no longer available.**

TOOLS REQUIRED: **HEX SOCKET KEY WRENCH(ALLEN), 5/32"**
WRENCH, COMBINATION, 9/16" (NEW SIDES)
WRENCH, COMBINATION, 7/16" (OLD SIDES)
PUTTY KNIFE
GASKET CEMENT, 3 OZ. TUBE
TAPERED REAMER

STEP#1 Place the damper in the closed and locked position and remove the damper handle stub with your 5/32" hex socket key (Allen) wrench.

STEP#2 Reach inside the stove and remove the ⅜-16x1" cap screw with a 9/16" wrench (older stoves have a ¼ - 20 cap screw securing the sides in which case you would use a 7/16" wrench).

STEP#3 Remove the sides by pulling the bottom of the side away from the stove to the point where the upper edge is released from its groove. The right side's bottom edge must be pulled out until the upper portion of the side can be slid off of the damper rod stub. Remove the ⅜" washer and 1" spacer from the damper rod stub.

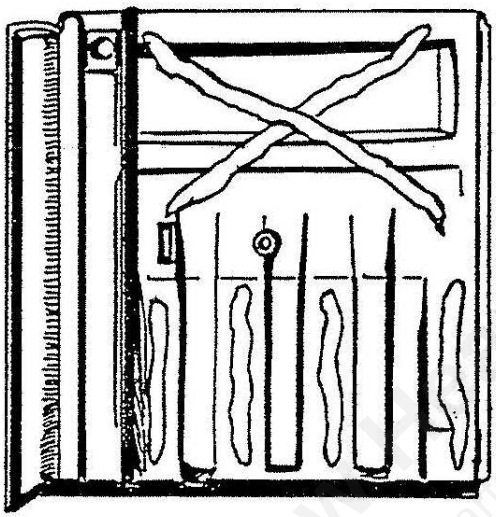
STEP#4 Remove the old insulation from the sides and scrape the old cement that was used as an adhesive from the castings.

STEP#5 Place some gasket cement on the inside portion of the sides as shown in figure R-8. Look closely at the new insulation bats and find the two cutouts; pop the two cut outs out of the insulation batt.

STEP#6 Place the insulation batts on the inside portion of the sides so that the drilled and tapped boss and the cast lug protruding from the inside of the side enters the cut outs in the insulation batt. Press the insulation batt firmly in place.

REPLACING THE SIDE PLATES AND/OR THE INSULATION BATTS CONT….

Fig. R-8
INSIDE VIEW OF A SIDE PLATE SHOWING CEMENT.
PLACEMENT PRIOR TO INSTALLING A NEW INSULATION BATT



STEP#7 Place the spacer on the damper rod stub followed by the ⅜" flat washer. (See figure R-3 on page 18). Replace the two sides engaging the upper end of the side in its groove and lowering the lower end of the side against the stove. Secure the sides with your cap screws and washers making sure that the sides are fully seated before final tightening.

STEP#8 Replace the damper handle stub. Pull the damper rod out of the stove as far as you can. Slip your right hand between the left stove side and the protruding stove back and force the left end of the damper rod as far to the right side of the stove as possible while slipping the damper handle stub onto the right end of the damper rod (see figure R-4 on page 18). Tighten the handle stub with your 5/32" hex socket key (Allen) wrench.

REPLACING AND/OR ADJUSTING THE LOADING DOOR LATCH MERCHANISM AND THE UPPER AND LOWER HINGE PINS

TOOLS REQUIRED:

1/8" HEX SOCKET KEY (ALLEN) WRENCH
5/32" HEX SOCKET KEY (ALLEN) WRENCH
½ OPEN END WRENCH
PHILLIPS SCREWDRIVER, #1 TIP
NEEDLE NOSE PLIERS
FILE, ROUND, 5/32" SINGLE CUT

STEP#1 Remove the loading door from the stove. Pull down on the spring loaded upper hinge pin disengaging it from its drilling, tilt the door slightly and lift it off its lower hinge pin. Place the door outside face down on a clean, level work surface.

STEP#2 Place your finger against the upper portion of the spring of the Upper hinge pin and pull down on the spring exposing the small "C" clip that retains the spring. Rotate the "C" clip so that the center of the arc of the "C" is accessible. Grasp the center of the arc with the end of your needle nose pliers and pull it off of the hinge pin, see figure R-9 (next page). Pull the freed hinge pin downward through its two drilled bosses. Remove the spring from between the two drilled bosses.

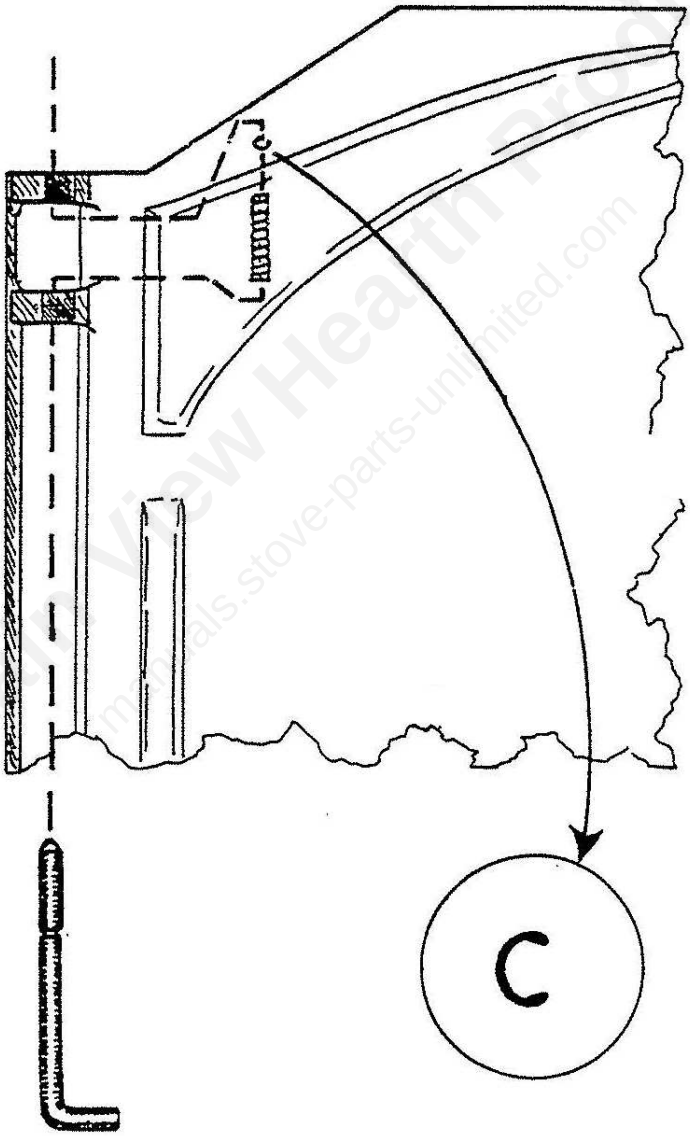
STEP#3 Examine the pin, spring and "C" clip for damage, breaks, bends and/or burrs. Replace any suspect parts.

STEP#4 Examine the drillings in the two upper hinge bosses as well as the drilling in the single lower hinge boss. If burrs or gouges are present, smooth them with the round file.

STEP#5 Start the long leg of the upper hinge pin into the lower drilling of the upper hinge boss. Compress the spring slightly and place it over the end of the hinge pin between the upper and lower hinge bosses. Push the hinge pin up through the spring and the drillings in both cases. Retract the upper end of the spring with your finger exposing the groove on the hinge pin. Press the "C" clip into the groove on the hinge pin until the "C"clip is fully seated and release the spring. Pull the hinge pin down several times and release it to test operation. The hinge pin should pull down until the upper end enters the drilling in the upper hinge boss and snap back out to its full length when released.

REPLACING AND/OR ADJUSTING THE LOADING DOOR LATCH MERCHANISM AND THE UPPER AND LOWER HINGE PINS CONT….

Fig R-9
INSIDE VIEW WITH DETAIL OF THE UPPER LEFT CORNER OF THE LOADING DOOR SHOWING THE HINGE PIN, COMPRESSION SPRING AND THE "C" CLIP



REPLACING AND/OR ADJUSTING THE LOADING DOOR LATCH MERCHANISM AND THE UPPER AND LOWER HINGE PINS CONT….

STEP#6 Return to the stove and loosen the lock nut on the lower hinge pin with your ½" wrench. Turn the hinge pin out of its tapped drilling with your fingers. Examine the hinge pin for bends, burrs, gouges, etc. Replace the hinge pin if it is damaged in any way; do not attempt to file it smooth. See figure R-10.

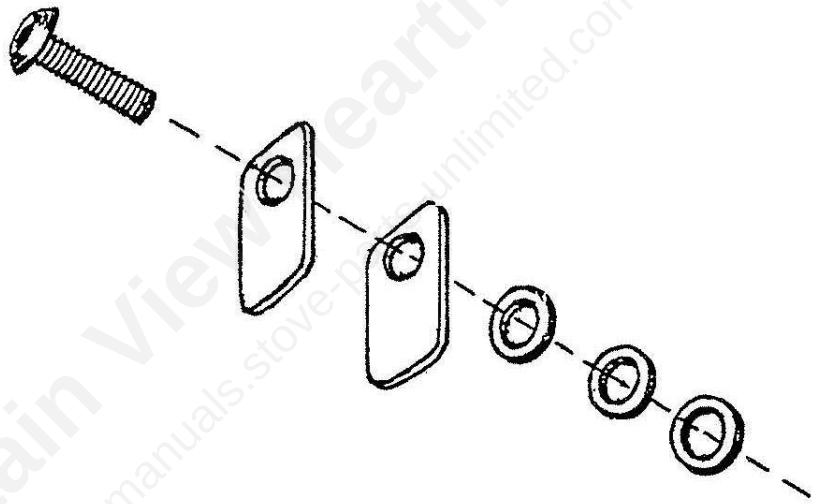
Fig R-10
DETAIL OF THE LOWER LOADING DOOR HINGE PIN AND LOCK NUT

STEP#7 Thread the lock nut onto the hinge pin up to the flange, finger tight. Thread the hinge pin into its tapped drilling in the lower hinge boss, Almost all the way to the lock nut. Do not tighten the lock nut at this time.

REPLACING AND/OR ADJUSTING THE LOADING DOOR LATCH MERCHANISM AND THE UPPER AND LOWER HINGE PINS CONT.…

STEP#8 Remove the ¼ - 20 socket head machine screw, two latch tabs, and Three narrow washers from the left side of the stove front with the 5/32" hex socket key (Allen) wrench. Examine the two latch tabs for bends and/or burrs. Replace the tabs if they are bent or distorted in any way. File any burred or gouged tabs smooth see figure R-11.

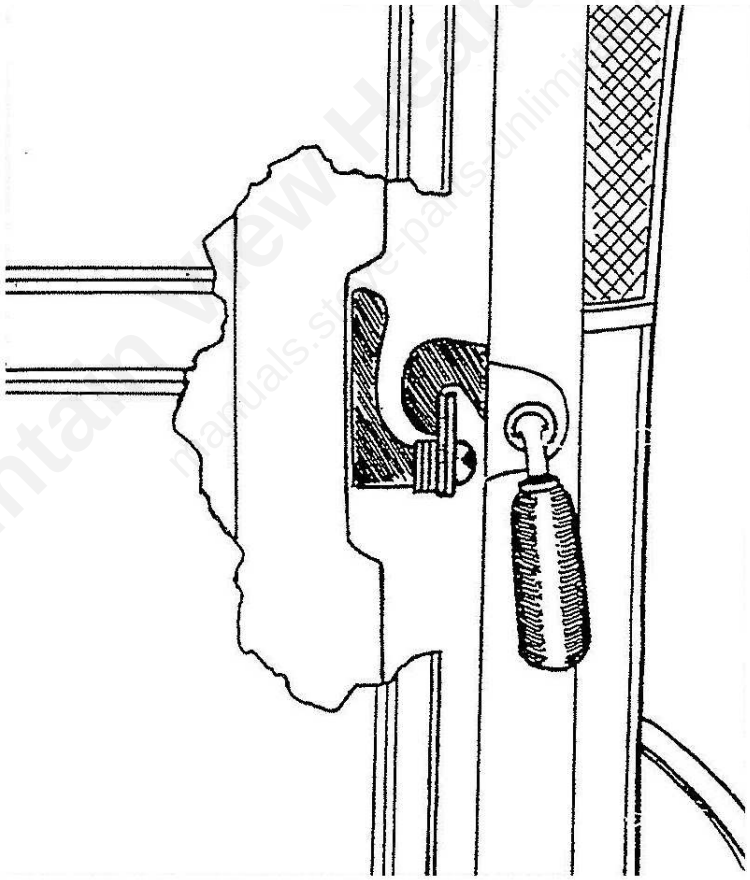
Fig. R-11
DETAIL SHOWING THE COMPONENTS AND ASSEMBLY SEQUENCE OF THE STATIONARY POSITION OF THE LOADING DOOR LATCH MECHANISM.



REPLACING AND/OR ADJUSTING THE LOADING DOOR LATCH MERCHANISM AND THE UPPER AND LOWER HINGE PINS CONT…

STEP#9 Reassemble the stationary position of the door latch as shown in Figure R-12 using three (3) narrow washers and two (2) tabs. Tighten the socket button head machine screw securely.

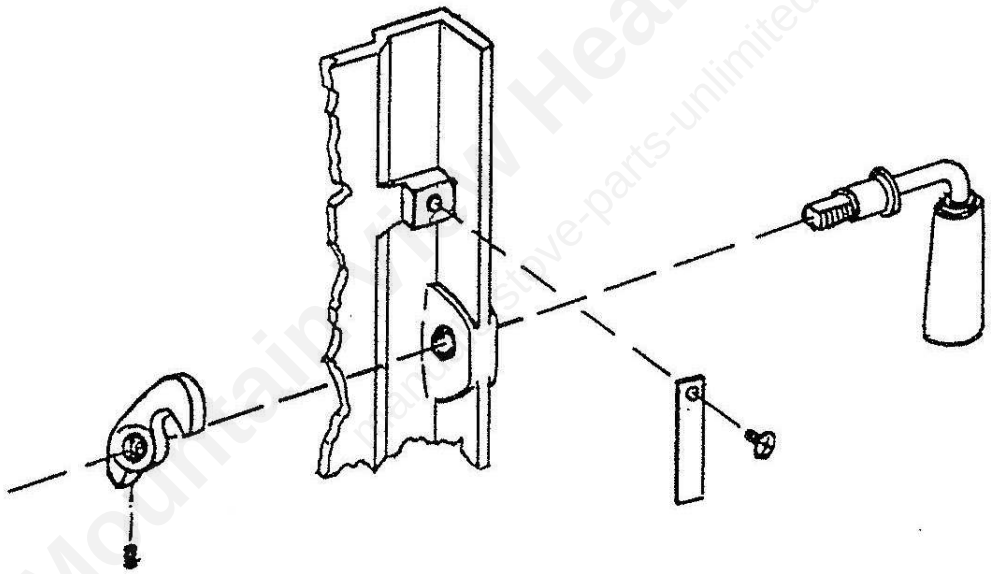
Fig. R-12
CUTAWAY VIEW OF THE LOADING DOOR LATCH MECHANISM ASSEMBLED



REPLACING AND/OR ADJUSTING THE LOADING DOOR LATCH MERCHANISM AND THE UPPER AND LOWER HINGE PINS CONT…

STEP#10 Return to the loading door and loosen the set screw in the moveable portion of the door latch to the point where it is possible to unscrew the door handle from the moveable latch. Examine the moveable latch for flat spots and gouges on both the outer and inner portions of the curve. Replace the moveable latch if the gouges and/ or flat spots can not successfully be filed smooth. Examine the leaf spring on the door, replace if it is bent or no longer pliable. See figure R-13.

Fig. R-13
DETAIL OF THE INSIDE RIGHT CENTER PORTION OF LOADING DOOR SHOWING COMPONENTS OF THE MOVEABLE PORTION OF THE LATCH MECHANISM.



STEP#11 Reassemble the handle and moveable latch, screw the handle shaft Into the rotating latch all the way. Back the handle shaft out of the rotating latch so that the set screw in the rotating latch engages the handle shaft at its bottom flat with the handle and rotating latch oriented as shown in figure R-13. Tighten the set screw in the rotating latch securely and operate the handle. Pull the handle toward you from inside the door and release it. The handle should move freely and spring back parallel to the door when released. If the handle binds or does not spring back parallel to the door it is too tight; loosen the set screw and turn the handle 360° counterclockwise and retighten.

STEP#12 Remount the door on the stove and check out opening, closing, and Latching operations. The door should swing shut and latch with Only a slight push. You should hear no metal contact with the Exception of the latch itself. If metal to metal contact is heard, dismount the door and raise or lower the lower hinge pin. One complete revolution (360°) of the lower hinge pin will raise or lower the door 1/16". When a satisfactory door fit is achieved (no metal to metal contact), tighten the lock nut on the lower hinge pin with your ½" wrench and remount the door. Check the latch area; the door should close and latch tightly with a good all-around gasket seal. If the door latches loosely, remove one (1) narrow washer from behind the two(2) stationary latch tabs. If after removing two narrow washers from behind the stationary latching tabs you still can't achieve a tight door seal, regasket the loading door following the procedure outlined in the gasketing section of this manual.

REMOVING AND REPLACING/REPAIRING THE ASH PIT PLATE. THE RIGHT AND/OR LEFT SHOULDER PLATES, GRATE ROD GRATE ACTUATOR ROD AND PRIMARY AIR VALVE ASSEMBLY.

Tools Required:

Phillips Screwdriver, #3 Tip
Common Screwdriver, 6”-8”
Hammer, Soft Face
Hammer, Ball Peen, 12-16 oz.
Cold Chisel, ⅜”-½”
2 each- 7/16 Wrench, Box or Open
Caulking Gun Frame
1 each – 11 oz tube of furnace cement
Wire Brush, Hand or power
Punch/Drive Pin, ¼”-⅜”

STEP#1. Remove the griddle, loading door, andirons, ashpan, movable and stationary grates and thoroughly clean the firebox and ash drop area of the stove.

STEP#2 Reach inside the stove and tap the wedges securing the lower fireback Assembly upward with your soft face hammer. Remove the wedges and lower fireback with arch inserts attached from the stove.

STEP#3 With your #3 Phillips screwdriver, remove the two Phillips flat head machine screws ¼ - 20 x 1” that secure the ash pit plate to the stove bottom. It may be necessary to insert the screwdriver tip into the screw slots and rap the handle end of the screwdriver sharply several times with the ball peen hammer in order to break the screws loose.

STEP#4 The ashpit plate is cemented in place along its four edges. In order to break the cement seal, rap the plate sharply and repeatedly along its four edges with the soft face hammer. Insert the tip of your large (6”-8”) common screwdriver under the front edge of the plate and pry the plate upward. If the plate does not come loose, rap it again with the soft face hammer and try prying again. When the ash plate comes loose, remove it from the stove.

STEP#5 If your repair involves the primary air valve, you may proceed after removing the exposed lock nut on the opposite end of the air valve cap screw, see figure R-17 on page 38. If the repair involves the grate rod and/or the grate actuator rod, proceed to step 6.

REMOVING AND REPLACING/REPAIRING THE ASH PIT PLATE CONT…

STEP#6 In order to repair or replace the grate rod and/or the grate actuator rod or free them up, you must remove the left shoulder plate. The shoulder plates are cemented to the bottom, the core sides and the front plate. Using the ⅜" or ½" cold chisel and ball peen hammer, tap the cold chisel along the joint between the shoulder plate and core side, between the shoulder plate and the front plate and between the shoulder plate and the bottom. Do not attempt to drive the cold chisel more than 1/8" deep; you are merely trying to break the cement seal.

STEP#7 After breaking the cement seal, drive your cold chisel into the locations Indicated in figures R-14 & R-15 on the next two pages. You may drive the cold chisel in ¼" plus. The purpose of this entire process is to remove the shoulder plate without damaging it or any adjacent parts.

STEP#8 Remove the left shoulder plate with the grate rod attached. If the grate actuator rod is bent or damaged, replace it by removing the threaded loop from its front end pulling the rod into the stove bottom.

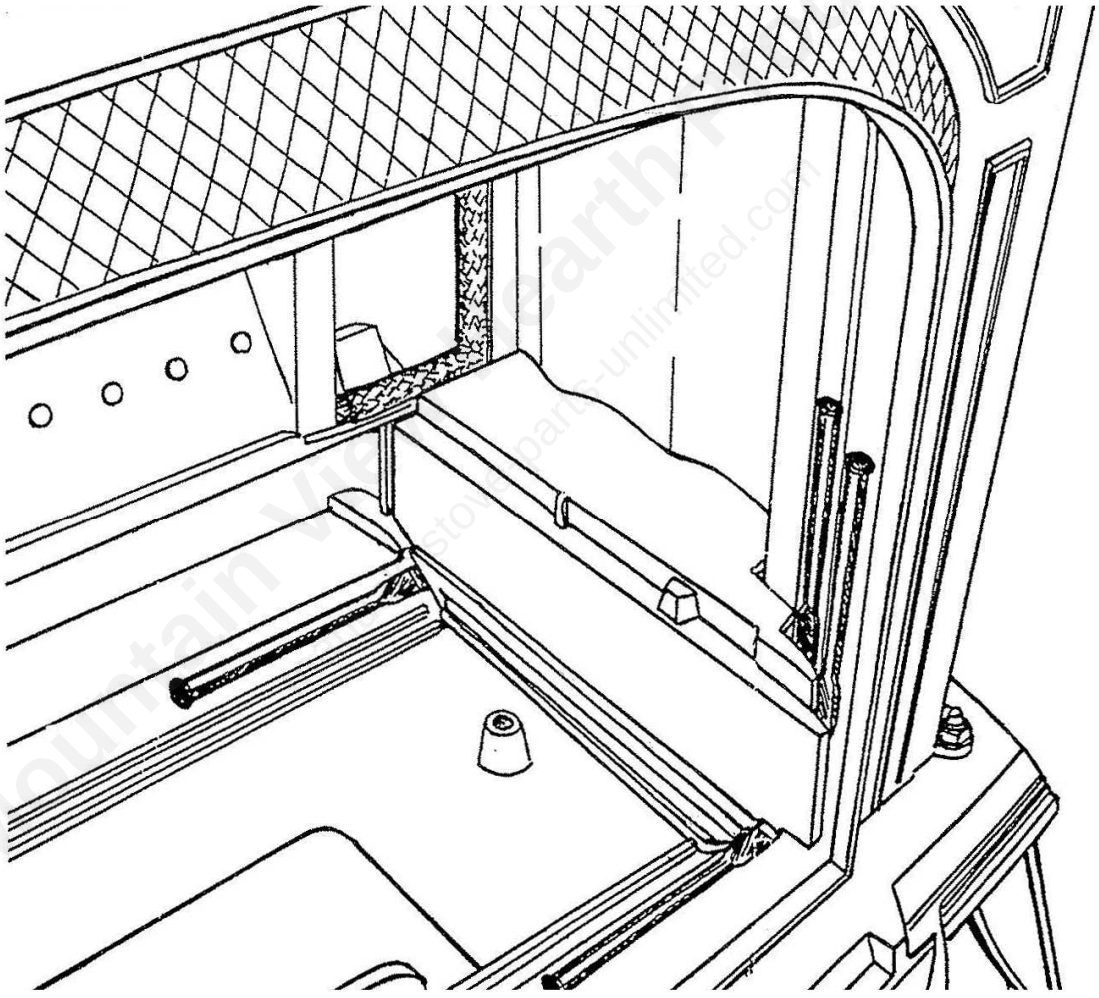
STEP#9 Thoroughly clean all the old furnace cement from the two shoulder Plates and the ash pit plate. Thoroughly clean all old furnace cement From cement channels in the stove bottom, the oblique flanges of the core sides and the lower flanges of the air manifold and front plate.

STEP#10 Install the new or repaired grate actuator rod from inside the stove Bottom. Push the threaded end of the rod out through its drilling in the stove bottom insuring that the loop is resting on the left riser of the stove bottom and underneath the bottom horizontal flange of the left core side, see figure R-17 (page 38). Place some "Loc-tite" or similar adhesive on the threads of the grate actuator rod and thread the loop on until it is tight.

REMOVING AND REPLACING/REPAIRING THE ASH PIT PLATE CONT…

Fig. R-14

LOWER RIGHT INSIDE VIEW OF THE STOVE SHOWING FINAL PLACEMENT POINTS FOR THE COLD CHISEL PRIOR TO REMOVAL OF THE RIGHT SHOULDER PLATE



REMOVING AND REPLACING/REPAIRING THE ASH PIT PLATE CONT…

FIG. R-15

LOWER LEFT INSIDE VIEW OF THE STOVE SHOWING FINAL PLACEMENT POINTS FOR THE COLD CHISEL PRIOR TO REMOVAL OF THE LEFT SHOULDER PLATE

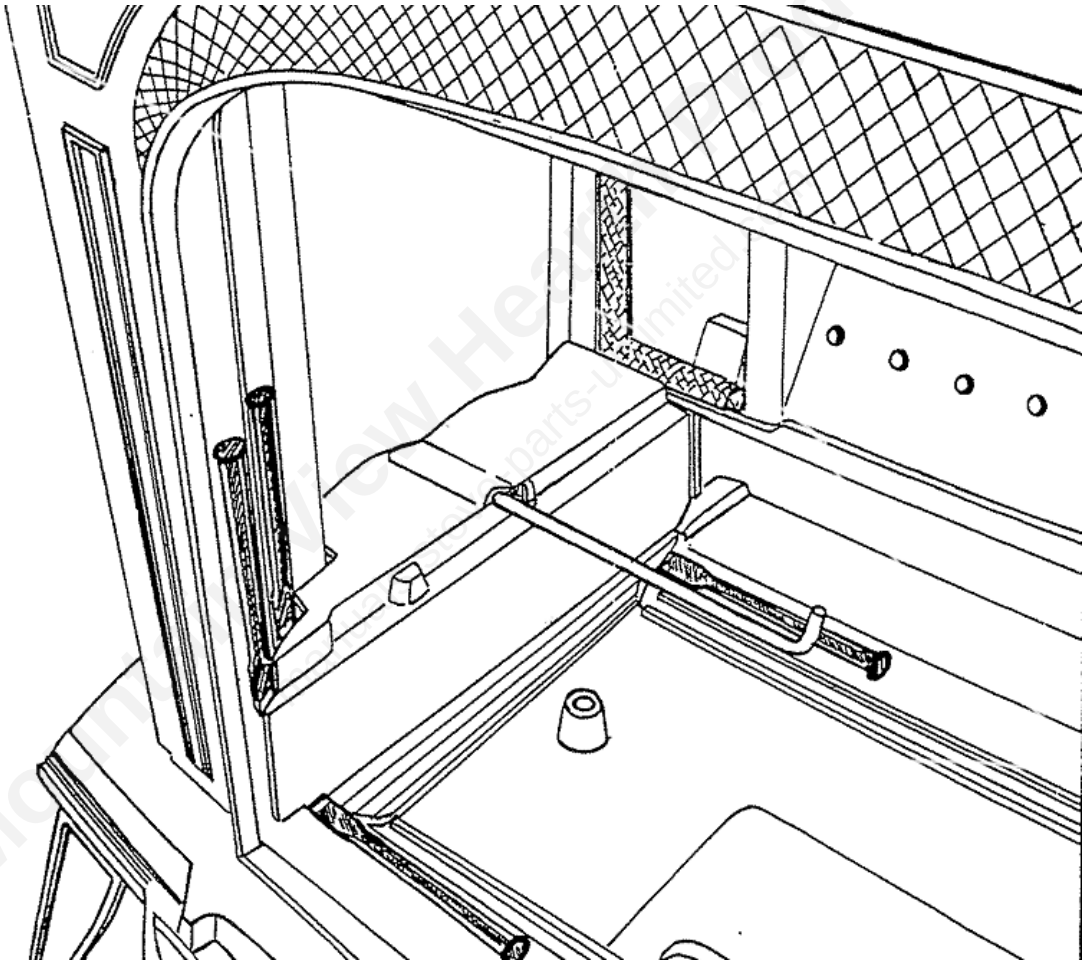
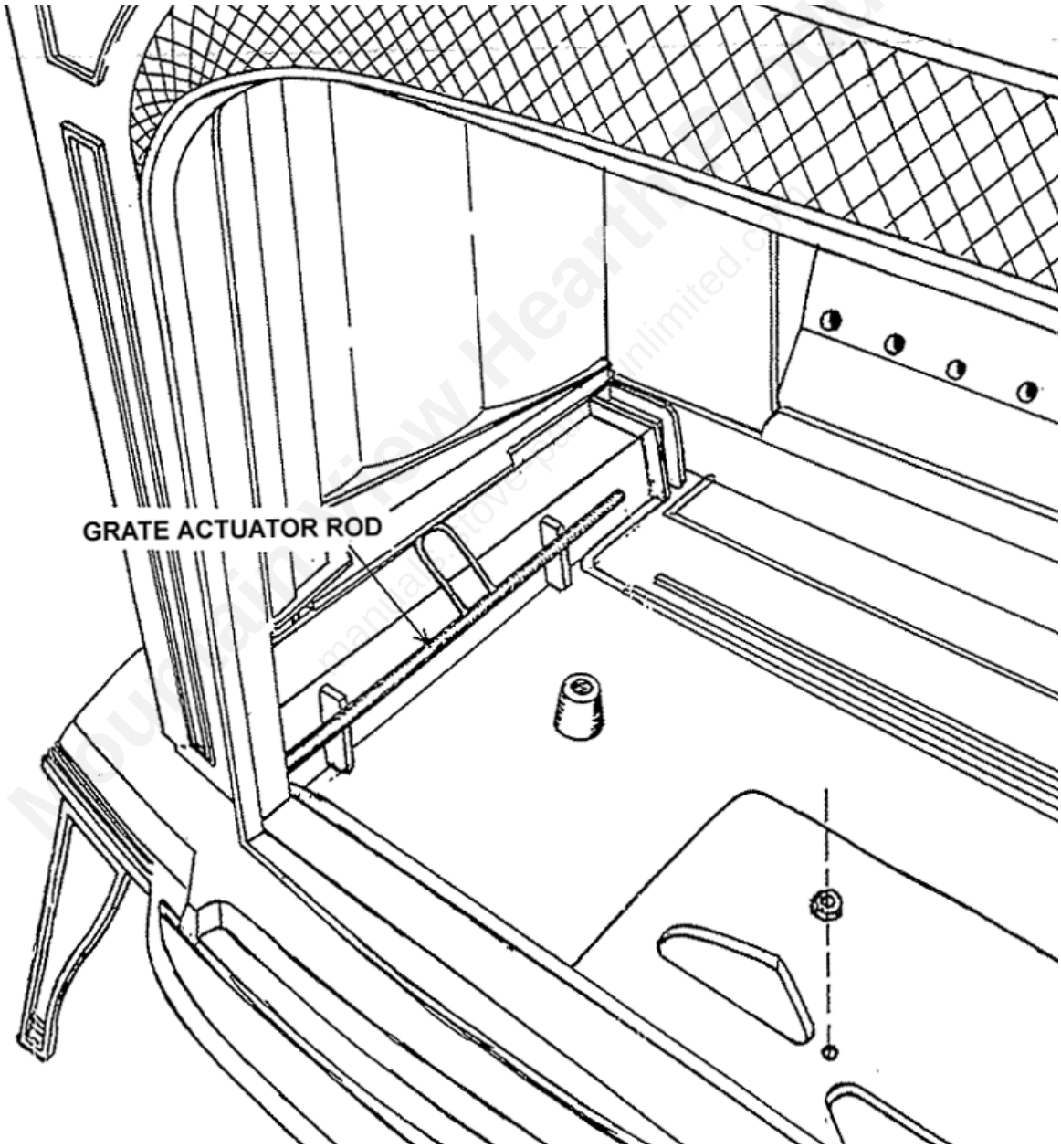


Fig R-17

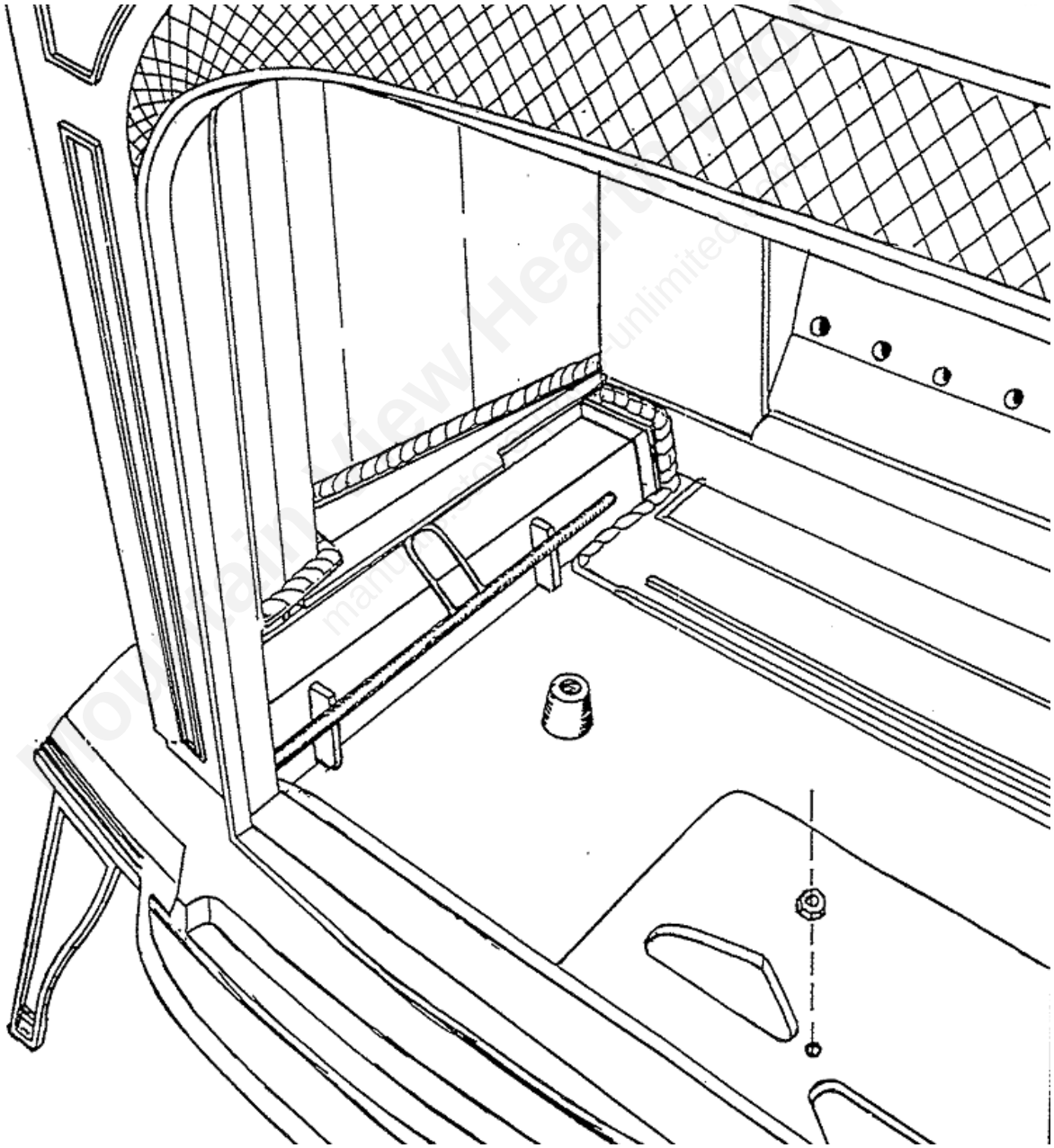
LEFT INSIDE VIEW OF STOVE SHOWING THE GRATE ACTUATOR ROD IN PLACE AND THE PRIMARY AIR VALVE LOCK NUT



STEP#11 Thread the end of the grate rod through its drilling in the left shoulder plate as shown in figure R-18. Apply a ¼" – ⅜" unbroken bead of furnace cement to the stove bottom, core side, air manifold and shoulder plate as shown in figure R-18.

Fig. R-18

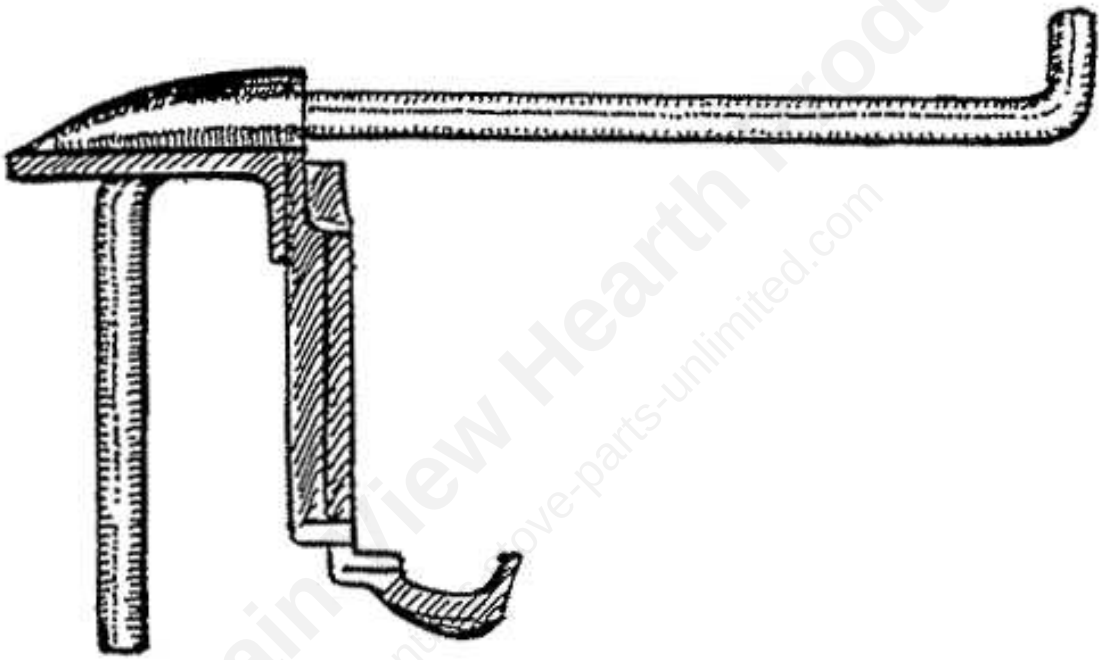
LEFT INSIDE VIEW OF STOVE SHOWING CEMENT APPLIED TO APPROPRIATE LOCATIONS PRIOR TO INSTALLATION OF THE LEFT SHOUDER PLATE



STEP#12 Install the left shoulder plate into its cemented channels and flanges insuring that the lower end of the grate rod enters the loop in the grate actuator rod.
See figure R-16.

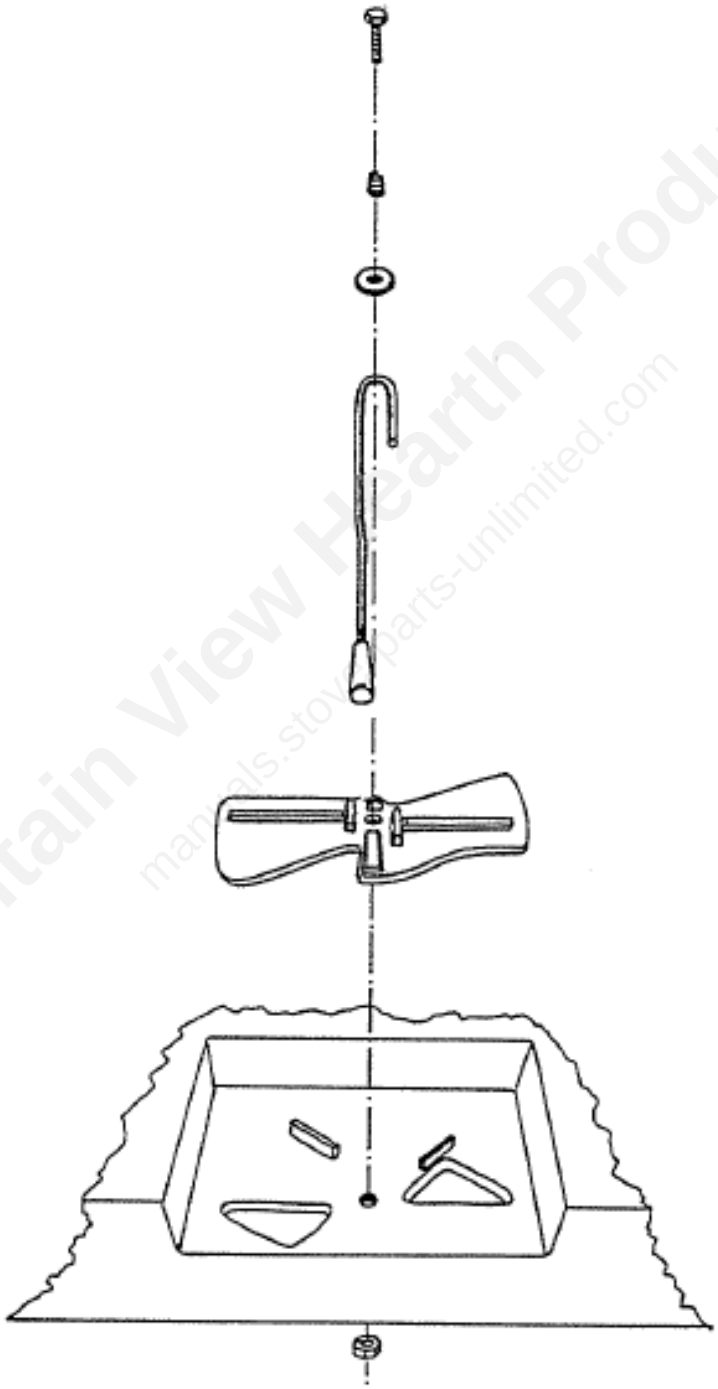
Fig. R-16

END VIEW OF THE LEFT SHOULDER PLATE
WITH THE GRATE ROD IN PLACE



STEP#13 If the primary air valve was part of your repair/replacement, now is the time to reassemble it, adjust it and install the lock nut on the end of the air valve cap screw. See figure R-20 on next page for detail. Note the orientation of the valve plate in relation to the stove bottom.

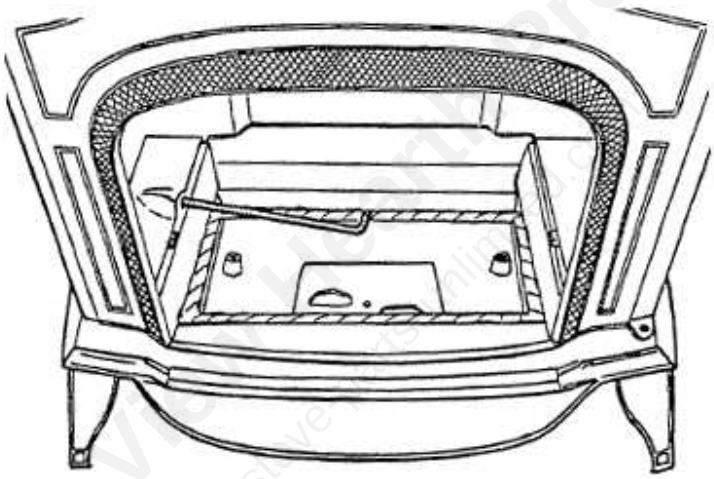
Fig. R-20
PRIMARY AIR VALVE COMPONENT DETAIL (LOOKING UP)



STEP#14 Apply a ¼" – ⅜" unbroken bead of furnace cement to the stove bottom and the two shoulder plates as shown in figure R-19. Install the ash pit plate and secure it with 2 each ¼ - 20 x1" Phillips flat head machine screws.

Fig. R-19

INSIDE VIEW OF THE ASH PIT AREA SHOWING THE STOVE BOTTOM AND TWO SHOULDER PLATES CEMENTED PRIOR TO INSTALLATION OF THE ASH PIT PLATE



STEP#15 Install the stationary grate under the grate rod and into its slots in the shoulder plates. Install the moveable grate and test its operation. Reassemble the rest of the stove.

RESOLUTE ACCLAIM
SERVICE/REBUILD

TOOL REQUIREMENTS

1 – DROP CLOTH, 8'X8' (minimum size)
1 – PAIR SAFETY GOGGLES
1 – WIRE BRUSH 1-½"X6", 13 OVERALL
1 – 7/16"COMBINATION WRENCH (box and open end)
1 – ½" COMBINATION WRENCH (box and open end)
1 – 9/16" COMBINATION WRENCH (box and open end)
1 – ⅜" DRIVE RATCHET HANDLE
1 – ⅜" DRIVE EXTENSION, 6"
1 – WRENCH, SOCKET, 7/16" DEEPWELL, ⅜" DRIVE
1 – WRENCH, SOCKET, 9/16" DEEPWELL, ⅜" DRIVE
1 – COMMON FLAT BLADE SCREWDRIVER 6" LONG
1 – PHILLIPS SCREWDRIVER #3 TIP, 8" LONG
1 – PHILLIPS SCREWDRIVER #2 TIP, 6" LONG
1 – PHILLIPS SCREWDRIVER #1 TIP, 4" LONG
1 – HEX KEY (ALLEN) WRENCH 1/8"
1 – HEX KEY (ALLEN) WRENCH 5/32"
1 – DROP LIGHT A.C. 40-60 WATT, 15'-25' CORD
1 – PAIR LOCKING PLIERS 6"-10"
1 – PAIR NEEDLE NOSE PLIERS, 6"
1 – PUTTY KNIFE
1 – SHOP TYPE VACUUM CLEANER WITH ATTACHMENTS
1 – BALL PEEN HAMMER, 12 OZ. OR 16 OZ.
1 – HAMMER, BRASS FACE 12 OZ. OR 16 OZ.
1 – RUBBER MALLET 4 LB. DEAD BLOW
1 – COLD CHISEL, ½
1 – COLD CHISEL, ⅜"
1 – PUNCH/DRIVE PIN, 1/8"
1 – PUNCH/DRIVE PIN, ¼"
1 – PUNCH/DRIVE PIN, ⅜"
1 – CAULKING GUN FRAME
1 – ROLLING HEAD PRY BAR, ½"x15"
1 – PINCH BAR, ½"X15"
1 – WATER PAIL, 2 GALLON OR LARGER
1 – SPONGE OR WATER ABSORBENT CLOTH
1 – TAPE MEASURE, 6'
1 – MACHINISTS RULE, 6'
1 – PAIR CUTTING SHEARS, 6"-8"
1 – REPAIR/REBUILD STAND
CLEAN RAGS
STOVE REPAIR/REBUILD STAND (raised bench - minimum 2 x 6's & cement blocks)

ACCLAIM DISASSEMBLY

STEP#1. Lift out the griddle. Remove the ash pan and dump the ashes in a Safe container outdoors. Wash the ash pan and dry it. The ash Pan will make a good container for screws, bolts, nuts, washers and Small hardware items during the disassembly of the stove.

STEP#2. Remove the loading door. Open the door and pull down on the Spring loaded upper hinge pin. When the upper hinge pin clears its recess, tilt the door slightly and lift it off the lower hinge pin. Remove the andirons.

STEP#3. Clean out the firebox thoroughly. Vacuum out the entire firebox and ash drop area with the shop vacuum.

STEP#4. Lift out the top and bottom grate sections.

STEP#5. Remove the flue collar and flue collar extension: 4 each hex head Cap screws, ¼ - 20 x 5/8" and 4 each ¼" standard flat washers. A 7/16" wrench is required.

STEP#6. Tap upward the wedges holding the lower fireback in place and Remove them. Lift the lower fireback assembly slightly and shift it sideways so it clears the tab on one of the core sides and remove it from the stove.

STEP#7. Remove the damper handle stub. Loosen the socket set screw in the stub with a 5/32" hex key wrench (Allen) and pull the stub off the damper shaft. Remove the right stove end. Reach inside the firebox and remove the hex head cap screw, ¼ - 20x ¾" and one standard flat washer, ¼". A 7/16" wrench is required.
*NOTE: Later model stoves use a ⅜ -16x1" hex head cap screw and a standard ⅜" flat washer. If this is the case, a 9/16" wrench is required.

STEP#8. Remove the left stove end using the same tools and procedures as Outlined above.

STEP#9. Reach underneath the four corners of the stove bottom and remove the four ¼ - 20 hex nuts from the ends of the four tie rods. (a 7/16" wrench is required).

STEP#10. Tap the perimeter of the top plate upward with your rubber covered dead blow mallet until the top plate can be lifted off the stove.

STEP#11. Remove the tie rods from the top plate.

STEP#12. Remove the washer and spacer from the damper rod. Remove the damper rod.

STEP#13. Remove the upper fireback assembly, 2 each ¼ - 20 x ¾" hex head cap screws and 2 each flat washers. (A 7/16" wrench is required).

STEP#14. Carefully lift out the secondary combustion package and set aside where It won't be damaged.

STEP#15. Remove the ash pit plate. Two each Phillips flat head machine screws, ¼ - 20 x 1". It may be necessary to insert the tip of your #2 Phillips screwdriver into the screw heads and give the screwdriver handle several sharp raps with the ball peen hammer. Pry the plate up with your common screwdriver once the screws are removed.

STEP#16. Loosen the right and left shoulder plates. Tap a ⅜" or ½ cold chisel into the front joint where the shoulder plate joins the stove front to break the cement seal. Tap a ⅜" or ½" cold chisel into the joints between the rear lower edges of the shoulder plates and the stove bottom and break the cement seal.

STEP#17. Remove the right and left core sides. Tap each core side outward with the dead blow mallet breaking the cement seal between the core sides and the front and back plates. Rock the core sides back and forth to break the cement seal between the core sides and the stove bottom. If the shoulder plates are still attached to the core sides, remove the grate rod from the left shoulder plate and gently tap them loose with your dead blow mallet.

STEP#18. Remove the grate actuator rod from the stove bottom. Unscrew the grate actuator loop on the outside end of the rod and remove the grate actuator rod from inside the stove bottom.

STEP#19. Remove the front and back plates from the stove bottom. Gently rock back and forth until the cement seal is broken and lift hem off the bottom plate.

STEP#20. Remove the air manifold from the front plate. Two each hex head cap Screws, ¼ - 20 x2" (a 7/16" wrench is required). Break the cement seal between the two plates by carefully driving your ⅜" cold chisel into the joints at intervals. Loosen the 5/16"-18 hex jam nut on the lower hinge pin with a ½" wrench and unscrew the lower hinge pin from the front plate.

STEP#21. Remove the secondary combustion package support plate from inside the bottom of the back plate. Two each hex head cap screws, ¼ - 20 /x½" (7/16" wrench is required). Tap the support plate loose from the back plate with your dead blow mallet.

STEP#22. Disassemble the lower fireback assembly: one each hex head cap screw, ¼ - 20 x1" and one each square nut, ¼ - 20 (7/16"wrench is required). If the arch inserts are fused together and/or fused to the lower fireback, tap them loose with your dead blow mallet.

STEP#23. Disassemble the upper fireback assembly: two each hex head cap screws ¼ - 20 x ½" and two each damper tabs, 1"x ½" (7/16" wrench required). Lift out the damper plate.

STEP#24. Disassemble the damper plate. Remove the damper ramp, one each Phillips flat head machine screw, ¼ - 20 x 1" and one each hex nut, ¼ - 20 (7/16" wrench and #2 Phillips screwdriver required). Remove the ramp adjusting screw: one each socket set screw, ¼ - 20 x 1" oval point and one each hex nut, ¼ - 20 (⅛" hex key (Allen) wrench and 7/16" wrench required).

STEP#25. Disassemble the loading door. Remove the two glass clips securing the Glass in its framed opening: 2 each Phillips pan head machine screws, 10 -24x ¼" per clip. Remove the glass and set it aside in a safe place for cleaning and inspection. Remove the upper door pin. Retract the compression spring from the top down until the "C" clip is exposed, remove the "C" clip with your needle nose pliers. Pull the door pin straight down removing it and the compression spring from the door. Remove the door latch mechanism. Loosen and back out about 2 Revolutions the set screw in the door latch. Unscrew the door handle Stub from the latch. Remove the latch spring: one each Phillips truss Head machine screw, 10-24 x ¼". (⅛" hex key Allen wrench and #1 Phillips screwdriver required).

STEP#26. Disassemble the primary air valve. Loosen and remove the hex lock nut, ¼ - 20 from inside the stove bottom. Turn the stove bottom over and remove the hex head cap screw which secures the air valve, spring, washer and shaft to the stove bottom (two 7/16" wrenches required).

STEP#27. Remove the Ashlip: two each hex head cap screws, ¼ - 20 x 5/8" and two each ¼" flat washers (7/16" wrench required).

STEP#28. Remove the stove legs: Four each hex head cap screws, ⅜ -16 x 1", three each ⅜" flat washers and one damper handle holder (9/16" wrench required).

STEP#29. Examine the secondary combustion package assembly. Check the refractory chamber and ramp for breaks, chips, separations and/or general deterioration. If the refractory chamber and ramp are in good condition, clean with low pressure air from your vacuum cleaner. If the refractory chamber is in poor condition, seal it in a plastic bag and dispose of it. Replace it with a new one.

STEP#30. Examine all castings for cracks, chips, distortion, etc. Remove all old Gasketing material from the gasket channels and mating surfaces. Remove <u>all</u> gasket and furnace cement from channels and mating surfaces using the appropriate size punch/drive pin in the channels and cold chisels on the flanges and flat mating surfaces. Clean all channels and mating surfaces with a wire brush (hand or power).

STEP#31. Examine all mechanical linkage parts for distortion, worn or egg shaped Drillings, unusual wear, burrs, etc. Repair or replace as necessary. Replace any bent tabs or clips.

STEP#32. Place the loading door face down on a flat surface. Remove the small gasket from the glass frame. Remove all old gasket channel cement from the glass frame with your putty knife and/or cold chisel. Remove the large gasket from its channel and remove all old gasket cement from the channel with a ⅜" punch/drive pin and ⅜" cold chisel. Wire brush the glass frame and large gasket channel until bare metal is exposed. After thoroughly cleaning the door inside and out, paint the outside surface and all edges of the door. CAUTION! Do not get any paint on the glass frame gasket surface or the large gasket channel, mask them if necessary. The gasket cement will not adhere properly to a painted surface. Use Vermont Castings High Temperature Stove Paint (black), part number 0000035 (11 oz. can) and follow the directions on the can.

GASKETING

STEP#1. Remove the old gasketing paying particular attention to the place where a continuous gasket meets itself.

STEP#2. Clean all gasket channels and grooves with a wire brush (hand or power). Remove any stubborn deposits of gasket cement with the appropriate Size punch/drive pin or cold chisel.

STEP#3. Clean all parts to be gasketed with your shop vacuum. Place clean parts on a clean level surface.

STEP#4. Select the appropriate type and size of gasket. Cut to recommended Length allowing yourself an inch or two excess.

STEP#5. Using the 3 oz. tube of gasket cement (part number 1206122), place an Unbroken 1/8" bead of gasket cement in the channel or groove to be gasketed.

STEP#6. Starting with the one end, press the gasket into the cemented channel or groove. If the gasket meets itself, ensure that you have a good joint before trimming excess gasket with shears or side cutters. Do not overlap gasket ends or leave ragged edges.

STEP#7. If possible, place the gasketed part firmly against its normal mating surface in order to seat the gasket evenly in its cemented channel or groove. Use a 1" x 4" x 18" long, wooden straight edge where required. Remove the gasketed part and clean any excess cement that has squeezed Out around the gasket before placing aside to dry.

RESOLUTE ACCLAIM GASKET REQUIREMENTS

NOTE: All surfaces to which gasketing is applied must be free of paint, old Gasketing cement, etc. All gaskets are applied with Vermont Castings Cement, part number 1206122 (3 oz. tube) or 50000524 (11 oz. tube).

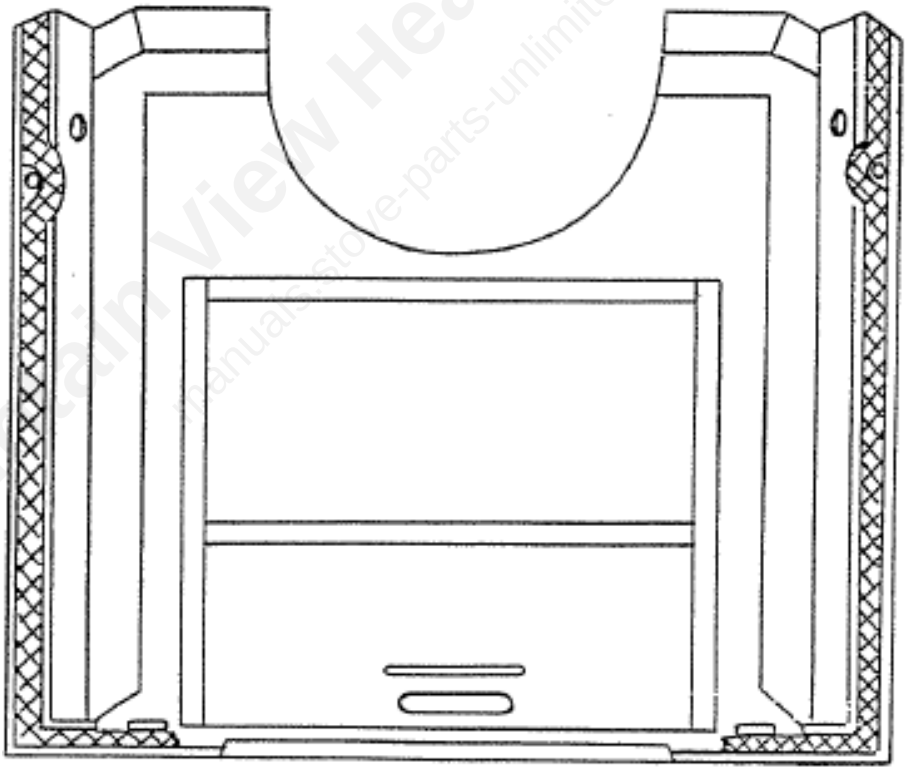
Back (inside)

Fig. G-1 Inside vertical edges of back plate to vertical edges of the upper and Lower fireback seal. Two pieces 20" each, fiberglass, 5/16" diameter, Medium density, 6 needle, part number 1203588.

Fig. G-1.

BACK WITH COMBUSTION PACKAGE

SUPPORT PLATE INSTALLED (inside view)

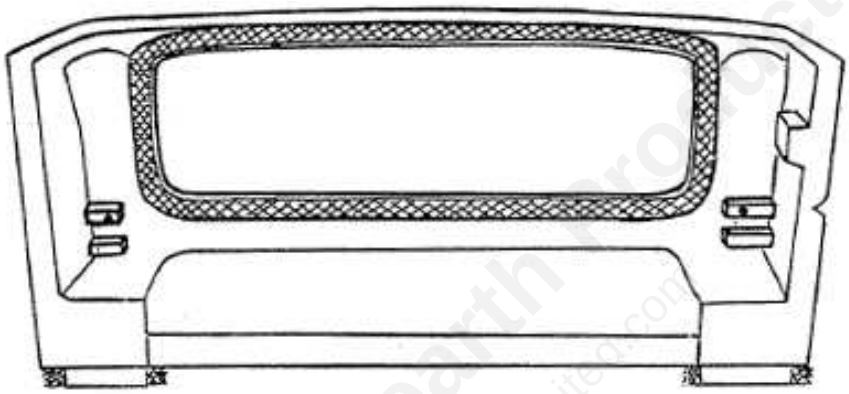


Upper Fireback

(Back Side)

Fig. G-2 Back side of upper fireback to damper seal. One piece 38” fiberglass, 5/16” diameter, medium density, 6 needle, part number 1203588.

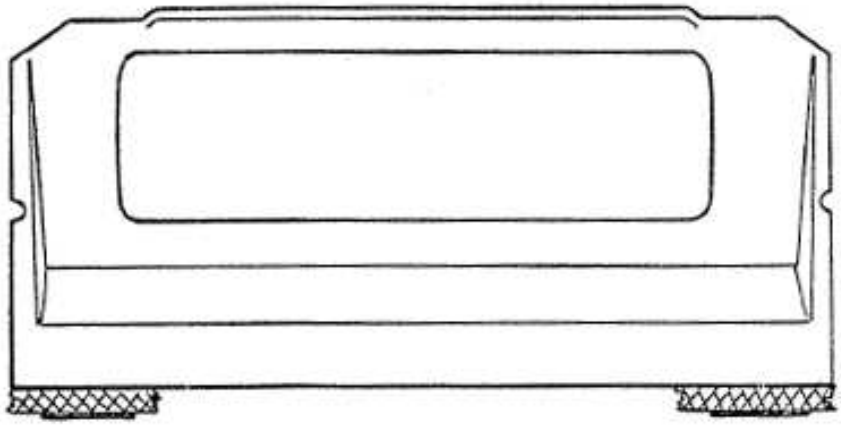
Fig. G-2. UPPER FIREBACK, BACK VIEW



Upper Fireback
(Front Side)

Fig G-3 Lower corner edges of upper fireback to upper corner edges of lower Fireback seal. Two pieces 3” each, fiberglass, 5/16” diameter, medium Density, 6 needle, part number 1203588.

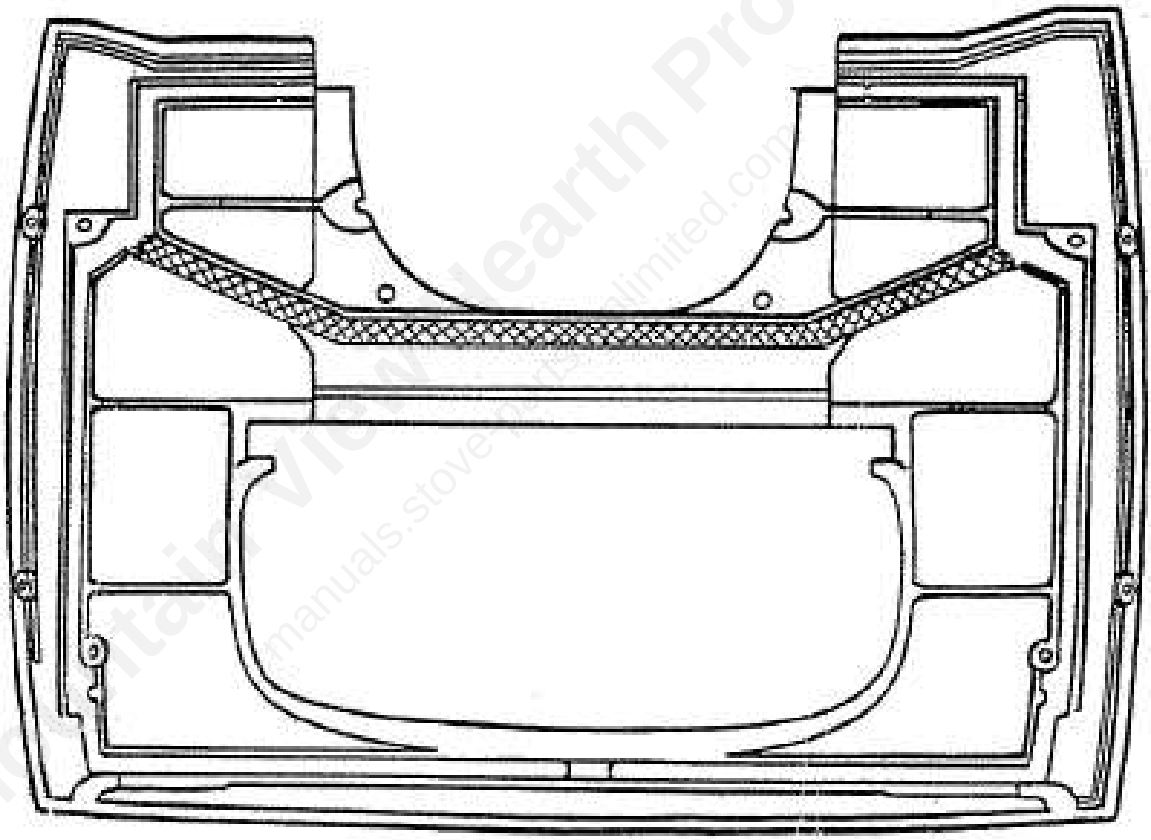
Fig. G-3. UPPER FIREBACK, FRONT VIEW



Top (Underside)

Fig G-4 Underside of top plate to upper edge of upper fireback seal. One piece 20", fiberglass, 5/16" diameter, medium density, 6 needle, part number 1203588.

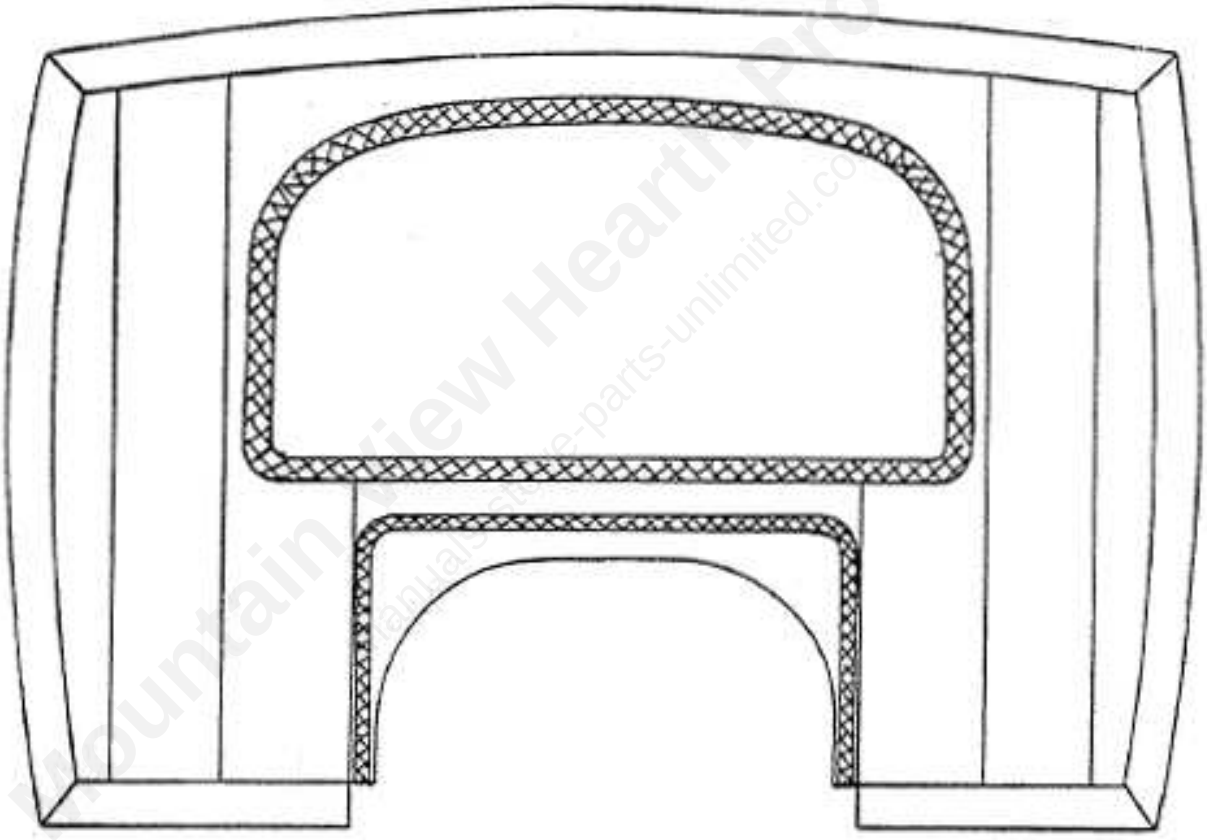
Fig. G-4. TOP PLATE, UNDERSIDE



Top (Top Side)

Fig G-5 Top plate to griddle seal. One piece 44” wire wound fiberglass, ¼” diameter medium density, 4 needle, part number 1203661.

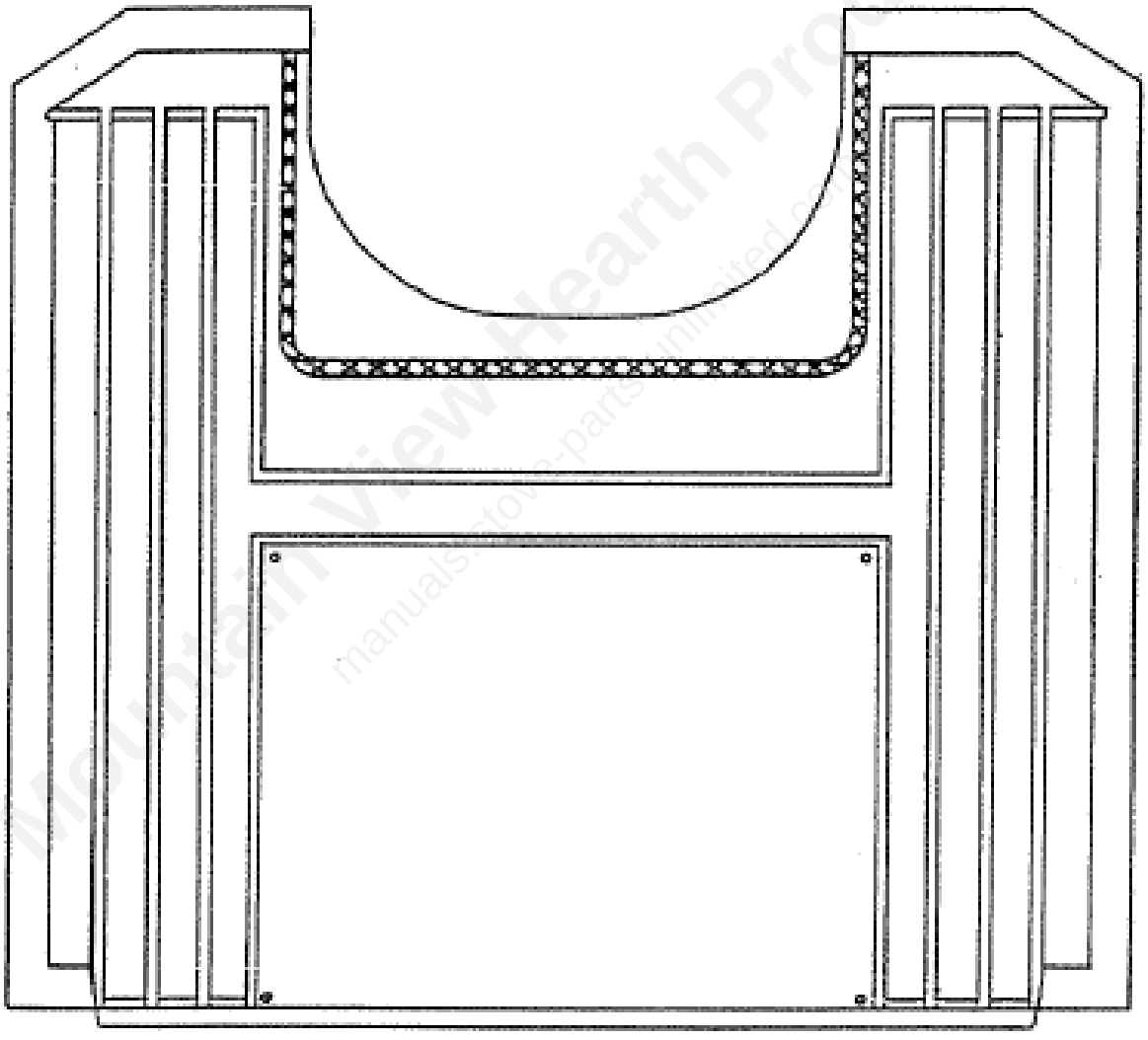
Fig. G-5. TOP PLATE, TOP SIDE



Top & Back

Figs. G-6 Top Plate and back to flue collar and extension seal. One piece 52", Fiberglass, ¼" diameter, low density, 3 needle, part number 1203560.

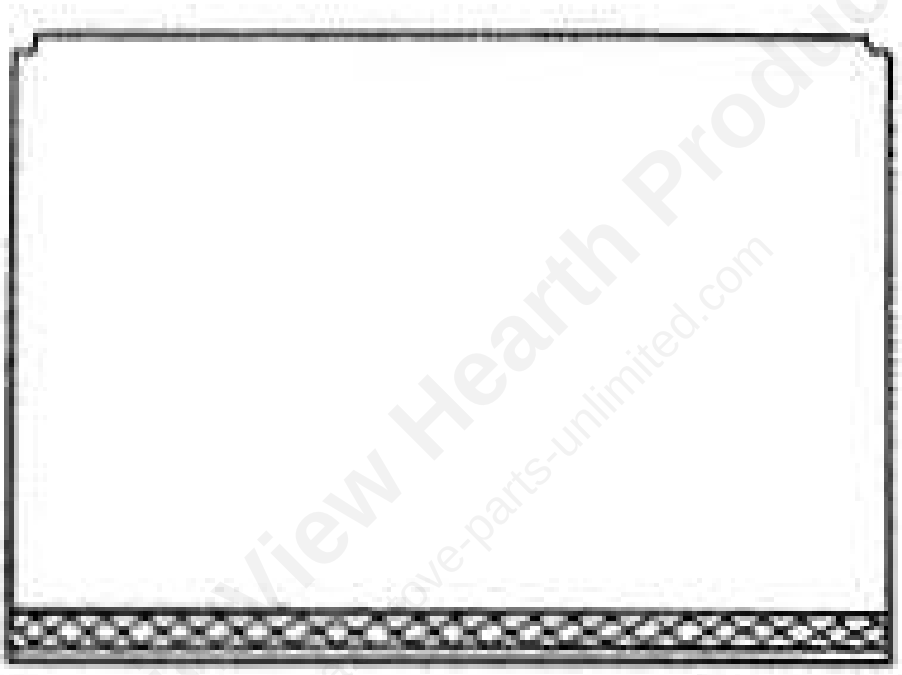
Fig. G-6. BACK PLATE, OUTSIDE VIEW



Flue Collar Extension

Fig. G-7 Flue Collar extension to flue collar seal. One piece 10", fiberglass, ¼" diameter, low density, 3 needle, part number 1203560.

Fig. G-7. FLUE COLLAR EXTENSION



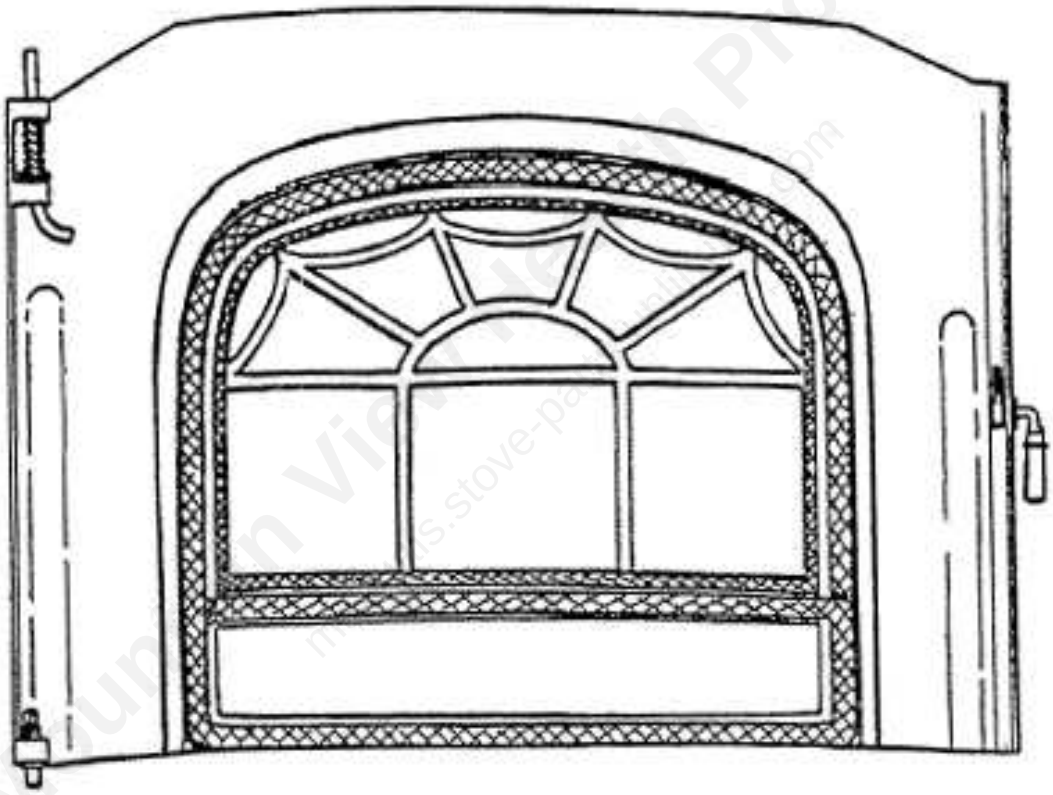
Door

Fig. G-8

Inside of front loading door to front plate seal. One piece 70", fiberglass, ½" diameter, low density, part number 120-3564.

Door glass frame to glass seal. One piece 44", fiberglass, 3/16" Diameter, medium density, 4 needle, part number 120-3556. This Gasket is applied with Tite-Bond glue.

Fig. G-8. FRONT LOADING DOOR, INSIDE VIEW



RESOLUTE ACCLAIM ASSEMBLY

GENERAL: All parts were carefully inspected and cleaned to bare metal or replaced during the disassembly process. Parts and/or assemblies requiring Gaskets have been re-gasketed. Assembly may now begin. To achieve A properly functioning, air tight stove, 3 each, 11 oz. tubes of Thermocement tube tips so that a ¼"-⅜" unbroken bead of Thermocement may be applied to the cement channels, flanges and/or Flat mating surfaces.

NOTE* Cement is indicated by the shaded areas in the "A" and "C" series Illustrations.

CAUTION: Pay strict attention to the type, size and number of fasteners called for in the exploded view drawing, parts list and text.

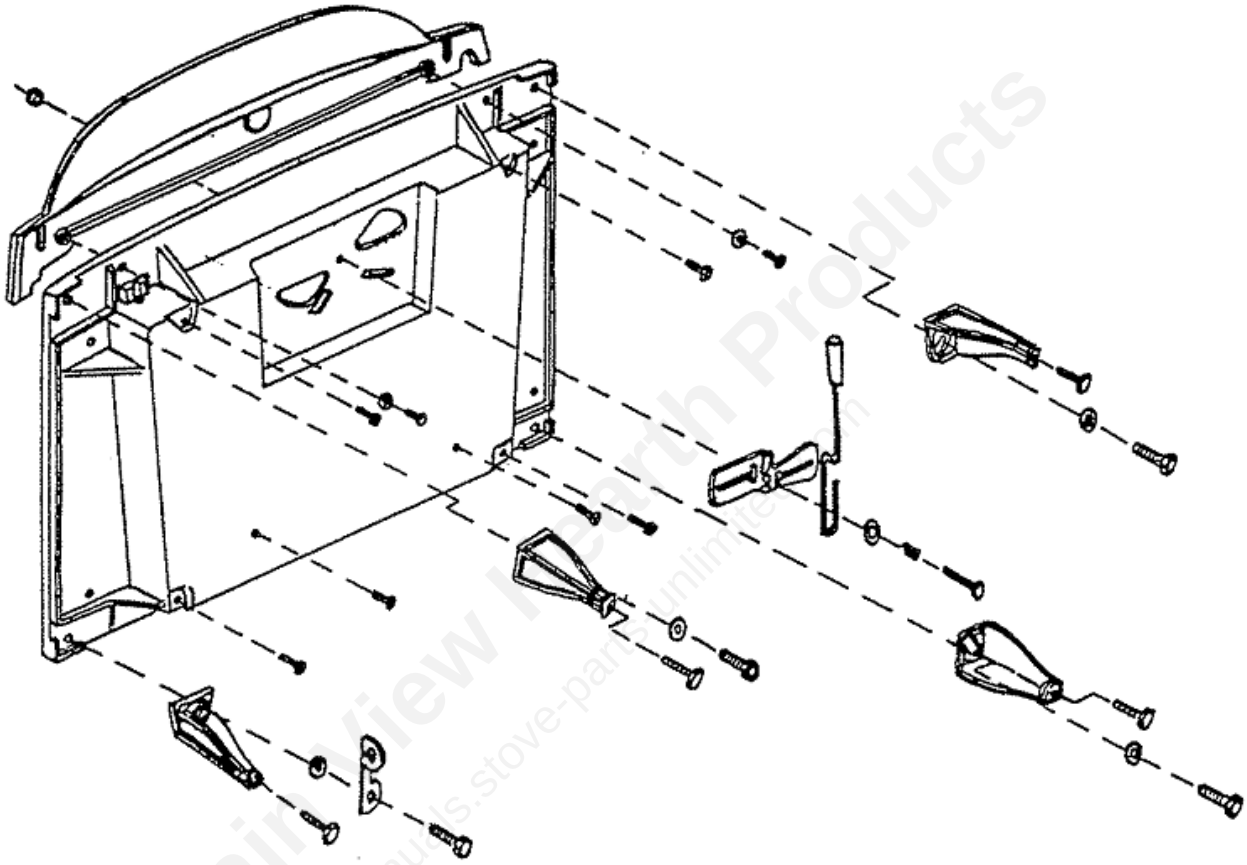
STEP#1 Invert the bottom and place it on your rebuild stand. Install 6 each, hex Head cap screws 10 -24 x ½" (see figure #A-1 on next page).

STEP#2 Install 4 each hex head leveler bolts (¼ - 20 x 1") in 4 legs.

STEP#3 Install 4 legs onto the stove bottom with 4 each hex head cap screws ⅜"-16 x 1" and 3 each ⅜" flat washers plus 1 each holder, damper handle insert on the left rear leg. (See Figure #A-1 on next page).

STEP#4 Lift the front of the inverted bottom and slide the ash lip into position, align the holes in the stove bottom with the two drilled and tapped bosses on the ash lip and secure with 2 each hex head cap screws, ¼ - 20 x 5/8" and 2 each flat washers, ¼" (finger tight).

Fig. A-1. STOVE BOTTOM, VIEW OF UNDERSIDE SHOWING ASSEMBLY DETAIL



STEP#5

Assemble the primary air valve. Place the "U" portion of the air valve shaft between and around the upsets on the air valve casting, with the upset on the valve shaft towards the underside of the ashlip. Place the compression spring on the ¼ - 20 x 1¼" hex head cap screw. Next place the ¼" x 1" outside diameter washer on the cap screw. Insert the cap screw with spring and washer through the air valve shaft and air valve, and thread it into the stove bottom until the spring is almost fully compressed. Thread a ¼ - 20 hex nut onto the air valve cap screw from inside the stove bottom and tighten the screw against the stove bottom. The air valve is properly adjusted when you feel resistance to movement of the air valve shaft but the shaft moves from stop to stop easily. See figure #s A-2 below and A-2a on next page.

Fig. A-2. TOP VIEW OF THE STOVE BOTTOM WITH PRIMARY AIR VALVE DETAIL

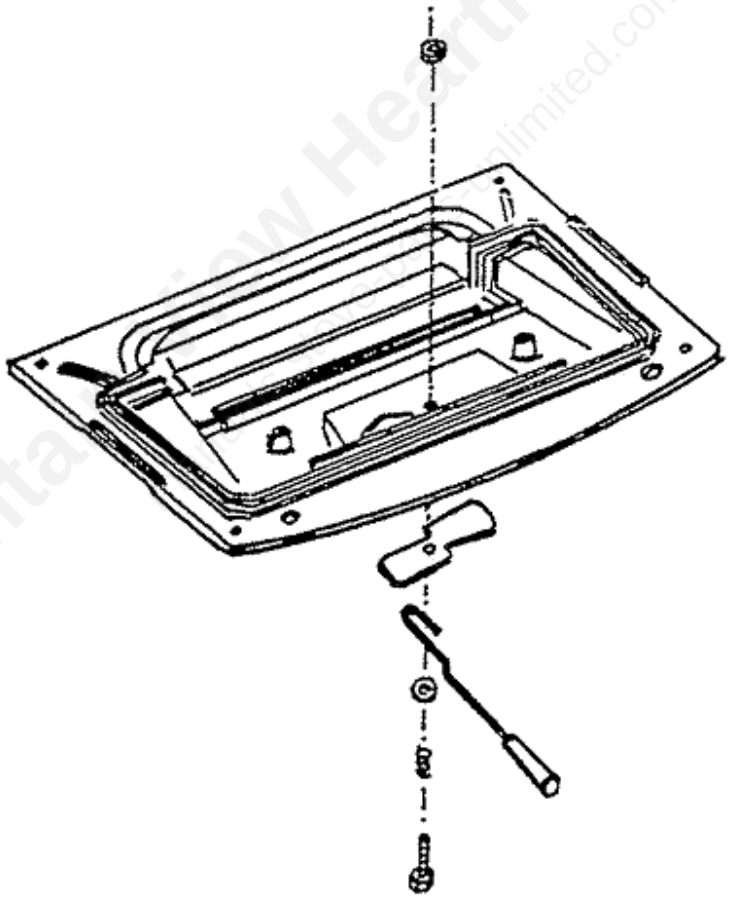


Fig. A-2a. PRIMARY AIR VALVE LEVER

STEP#6 Turn the stove bottom right side up on your rebuild stand.

STEP#7 Cement the stove front and air manifold as indicated in figure #'s C-2 and C-4 (next page), and place the air manifold in its proper position on the inside of the stove front. Align the holes in the air manifold with the drilled and tapped bosses on the inside of the stove front and secure with 2 each hex head cap screws, ¼ - 20 x 2".

Fig. C-2. FRONT PLATE, INSIDE VIEW

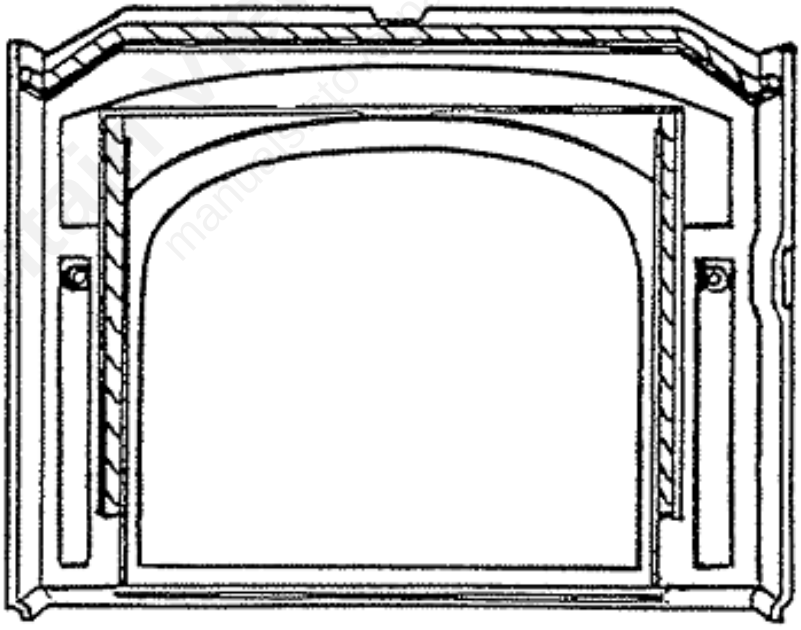
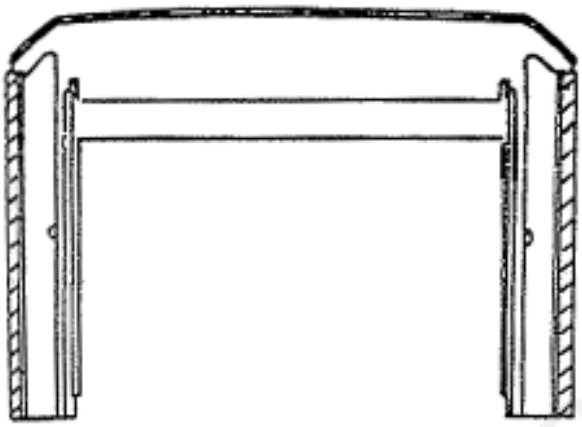
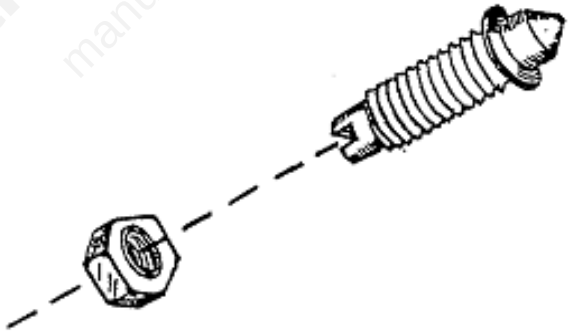


FIG. C-4, AIR MANIFOLD



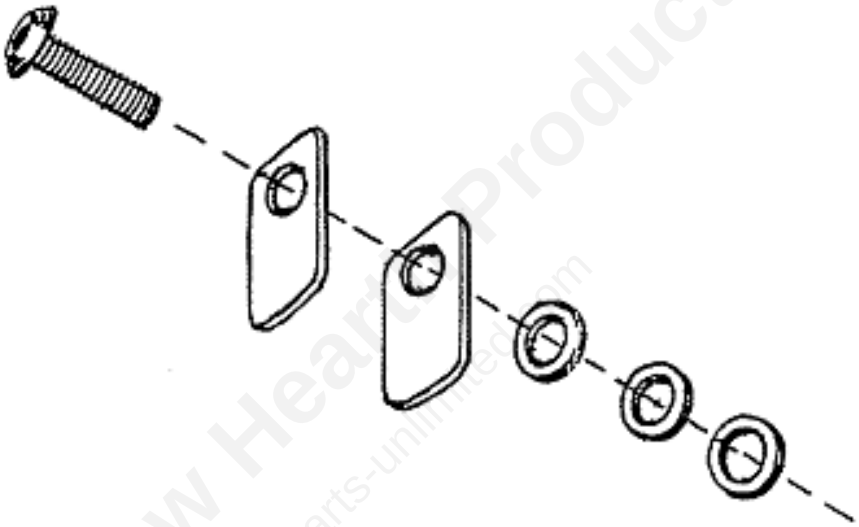
STEP#8 Install the hex jam nut, 5/16-18 on the threaded lower hinge pin and thread it up to the flange (See Figure #A-3). Thread the adjustable hinge pin with the jam nut into the lower hinge pin boss of the stove front from the top down, finger tight.

Fig. A-3 LOWER HINGE PIN WITH JAM NUT



STEP#9 Assemble the door latch tab: 2 each ½" x 1" tabs, 3 each ¼" narrow Flat washers and the socket button head cap screw ¼ - 20 x ¾" into the Left side of the stove front and tighten (see Figure #A-4).

Fig. A-4. STATIONARY PORTION OF DOOR LATCH ASSEMBLY, DETAIL



STEP#10 Cement the bottom of the stove back as indicated in figure #C-3 (page 62) and place the package support plate into position in the stove back. Align the holes in the package support plate with the drilled and tapped holes in the bottom of the stove back and secure with 2 each hex head cap screws, ¼ - 20 x ½". Cement the front corners of the installed package support plate, (see figure #G-1 on page 49), and press the two gasket tails on the bottom of the stove back into the wet cement.

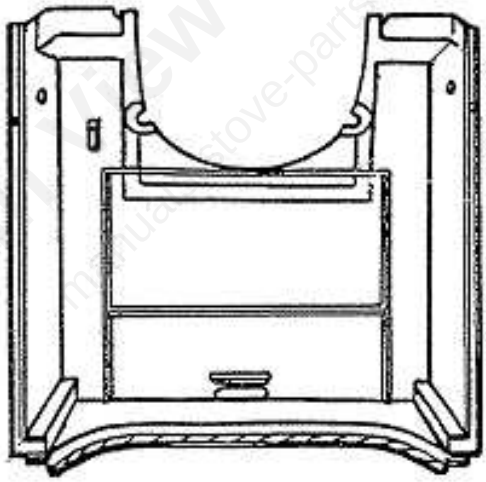
STEP#11 Place a 1" diameter dab of cement at the base of the two vertical ribs in the stove back. Center the secondary combustion package in the middle of the stove back and press it down onto the cement.

STEP#12 Place the damper rod ramp in its proper position between the two raised ribs on the reverse side of the damper and secure it to the damper with 1 each Phillips flat head machine screw, ¼ - 20 x 1" and 1 each hex nut ¼ - 20 x 1" and 1 each hex nut ¼ -20. Thread the socket set screw, ¼ - 20 x 1" oval point, into the front side of the damper until it contacts the damper rod ramp. Thread a hex nut, ¼ - 20 onto the socket set screw until it contacts the damper. Do not tighten either the set screw or the jam nut at this time.

STEP#13 Place the damper into position in the upper fireback and secure it with 2 each damper tabs, ½"x 1"and 2 each hex head cap screws ¼ - 20 x ½".

STEP#14 Place the stove back on its back and place the upper fireback/damper assembly into position on the front gasketed flanges of the stove back. Align the semi-circle cutouts on the sides of the upper fireback assembly with the drilled and tapped holes in the front flanges of the stove back and secure loosely with 2 each hex head cap screws, ¼ -20 x ¾" and 2 each ¼" flat washers. Do not tighten the cap screws at this time.

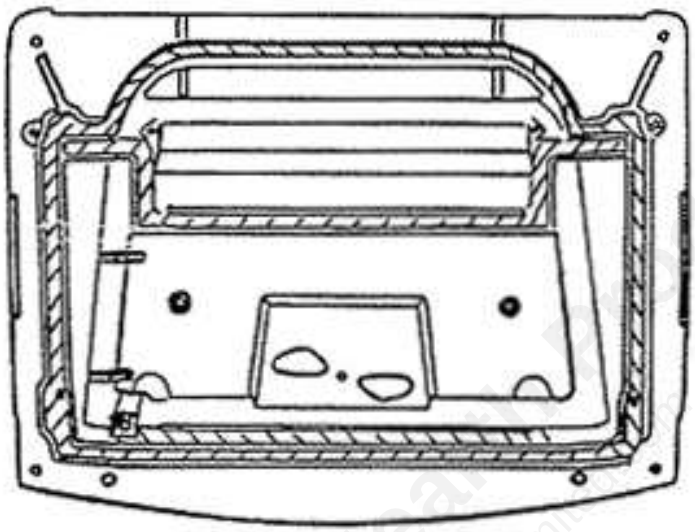
Fig. C-3 BACK PLATE, INSIDE



STEP#15 Install the grate actuator. Push the threaded end of the grate Actuator out through the hole in the left front face of the stove bottom from inside the bottom. Thread the loop onto the threaded end of the grate actuator and tighten. Flip the welded loop on the grate actuator toward the left side of the stove bottom so that the loop rests on top of the left ash drop shoulder.

STEP#16 Cement the channels in the stove bottom as indicated in figure #C-1.

Fig. C-1. BOTTOM PLATE, UPPER SIDE



STEP#17 Cement the two core sides in the places indicated in figures #C-5 and #C-6.

Fig. C-5 LEFT CORE SIDE

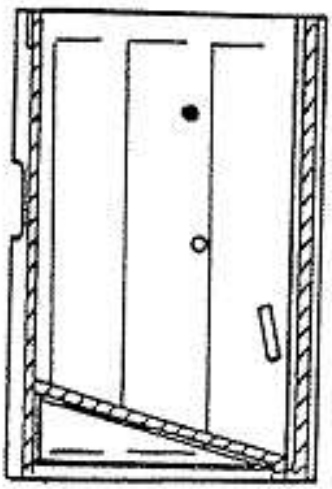
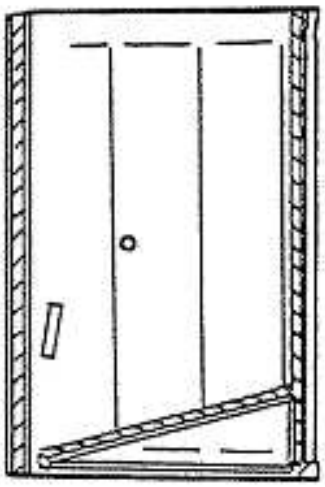
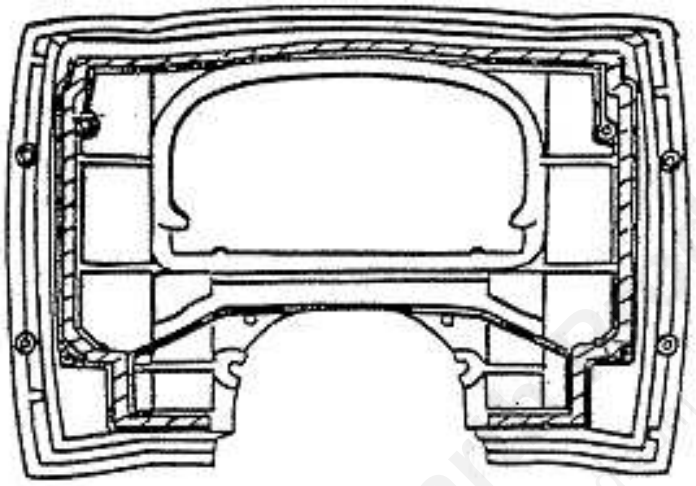


Fig. C-6. RIGHT CORE SIDE



STEP#18 Cement the channels in the underside of the top plate as indicated in figure #C-7

Fig. C-7. TOP PLATE, UNDERSIDE



STEP#19 Place the assembled stove back into its cemented channel in the stove bottom. Install the damper rod into its drillings in each side of the stove back. The longer stepped end of the rod should protrude from the right side of the stove back as you face the front of the stove.

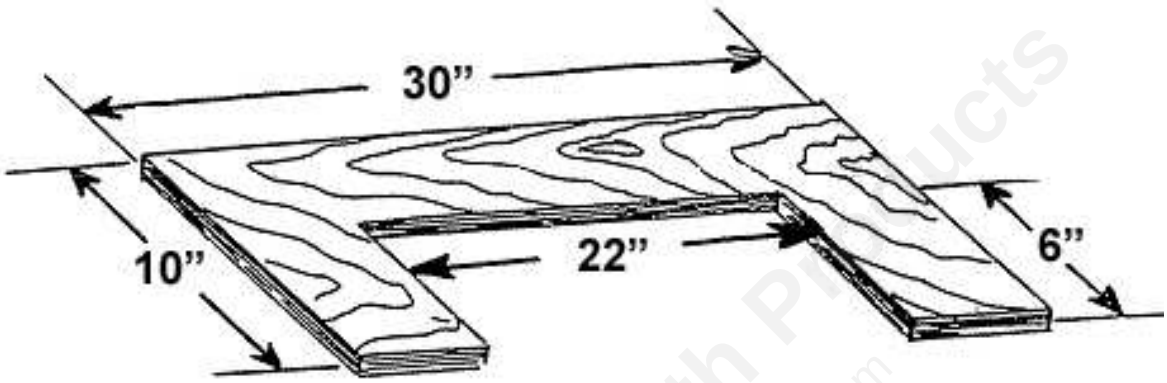
STEP#20 Place the assembled stove front into its cemented channel in the stove Bottom, and hold it and the back vertical with a wood bridge. (See figure #A-5 on next page).

STEP#21 Place the bottom of each core side into its cement channel in the stove bottom at a 45° angle and swing the top against the edges of the stove back and front, ensuring that the cement channels in the core sides encompass the ribs of the stove back and front. Place a wood bridge across the upper front capturing the upper core sides in their proper position.

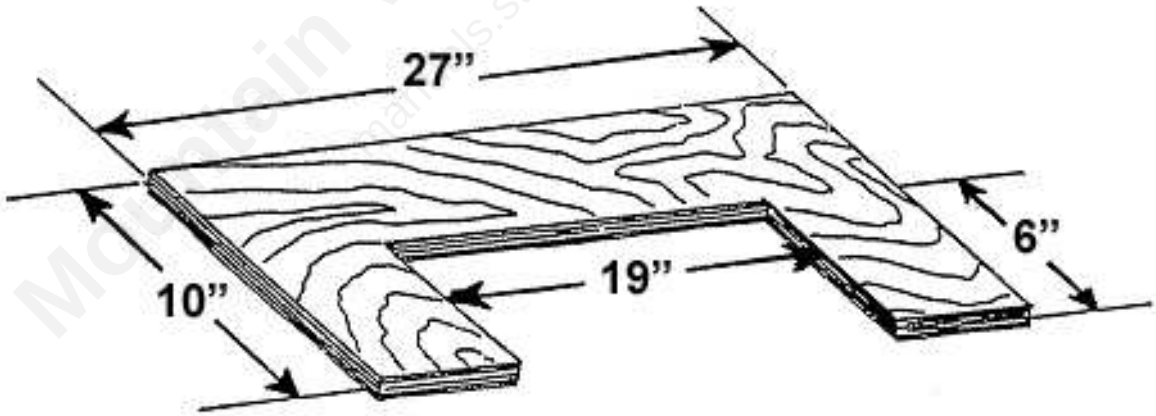
STEP#22 Place the cemented stove top into position ensuring that the top edges of the front, back and core sides are properly seated into their cement channels in the underside of the stove top.

Fig. A-5 WOOD BRIDGES

SIDE TO SIDE CAPTURE



FRONT TO BACK CAPTURE



STEP#23 Thread 4 each ¼ - 20 hex nuts on the long threaded ends of the 4 tie rods. Thread the nuts about ½" up the tie rods.

STEP#24 Insert the tie rods up through their drilled holes in the stove bottom and thread them into their drilled and tapped holes in the underside of the stove top. Continue to thread the tie rods into the stove top as far as you can with your fingers. Using slip joint or locking pliers continue to turn the tie rods at their threaded ends below the nuts. When the pliers start to slip on the rods, tighten the four ¼ - 20 nuts against the stove bottom with your 7/16"wrench.

STEP#25 Tighten the two ¼ - 20 cap screws securing the ash lip to the stove bottom, and the two ¼ - 20 cap screws that secure the upper fireback assembly to the stove back, with your 7/16" wrench.

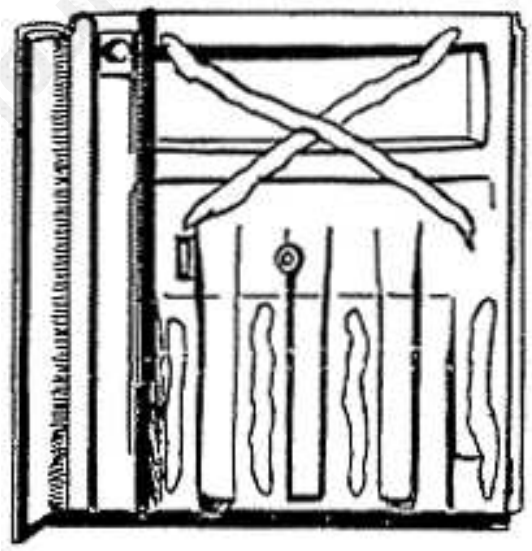
STEP#26 Place the ⅜" x 1" spacer on the damper rod. Place the ⅜" flat washer on the damper rod and push it against the spacer.

STEP#27 Cement the inside faces of the two stove ends as shown in Figure #C-9. Install two new insulation batts onto the cemented faces of the two stove ends. Make sure that the round and the rectangular openings in each insulation batt align properly with the round and the rectangular bosses on the inside face of each stove end. Install the right stove end. Swing the bottom of the stove end out from the side of the stove until you are able to thread the end of the damper rod through its drilling in the stove end. Swing the stove end down into its installed position and secure it with one ⅜ -16x 1" hex head cap screw and one ⅜" flat washer.

Fig. C-9

CEMENT APPLIED TO THE INSIDE OF BOTH STOVE ENDS TO

SECURE INSULATION BATTS



STEP#28 Working from the back side of the stove, push or gently tap the left end of the damper rod as far to the right side of the stove as it will go. Install the damper handle stub onto the damper rod as far as it will go and secure it by tightening the socket set screw tightly against the flat of the damper rod with the 5/32" Allen wrench. Adjust the damper ramp so that when the damper is closed a tight, firm lock position is achieved. Tighten the lock nut on the ramp adjusting set screw.

STEP#29 Install the left stove end and secure it with one ⅜ -16 x 1" hex head cap screw and one ⅜" flat washer.

STEP#30 Cement the stove bottom, air manifold, right core side and the right shoulder plate at the locations indicated in figure #s A-6 (see next page), and C-8, below. Install the right shoulder plate into position.

Fig. C-8. SHOULDER PLATES, TOP AND SIDE VIEWS

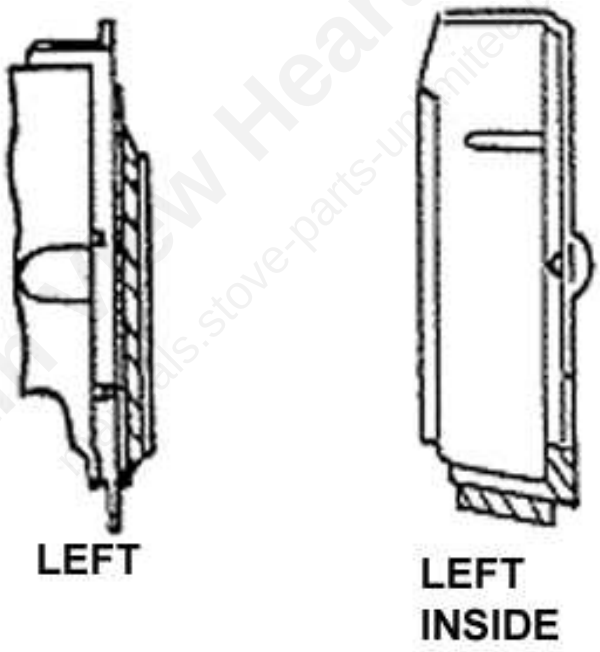
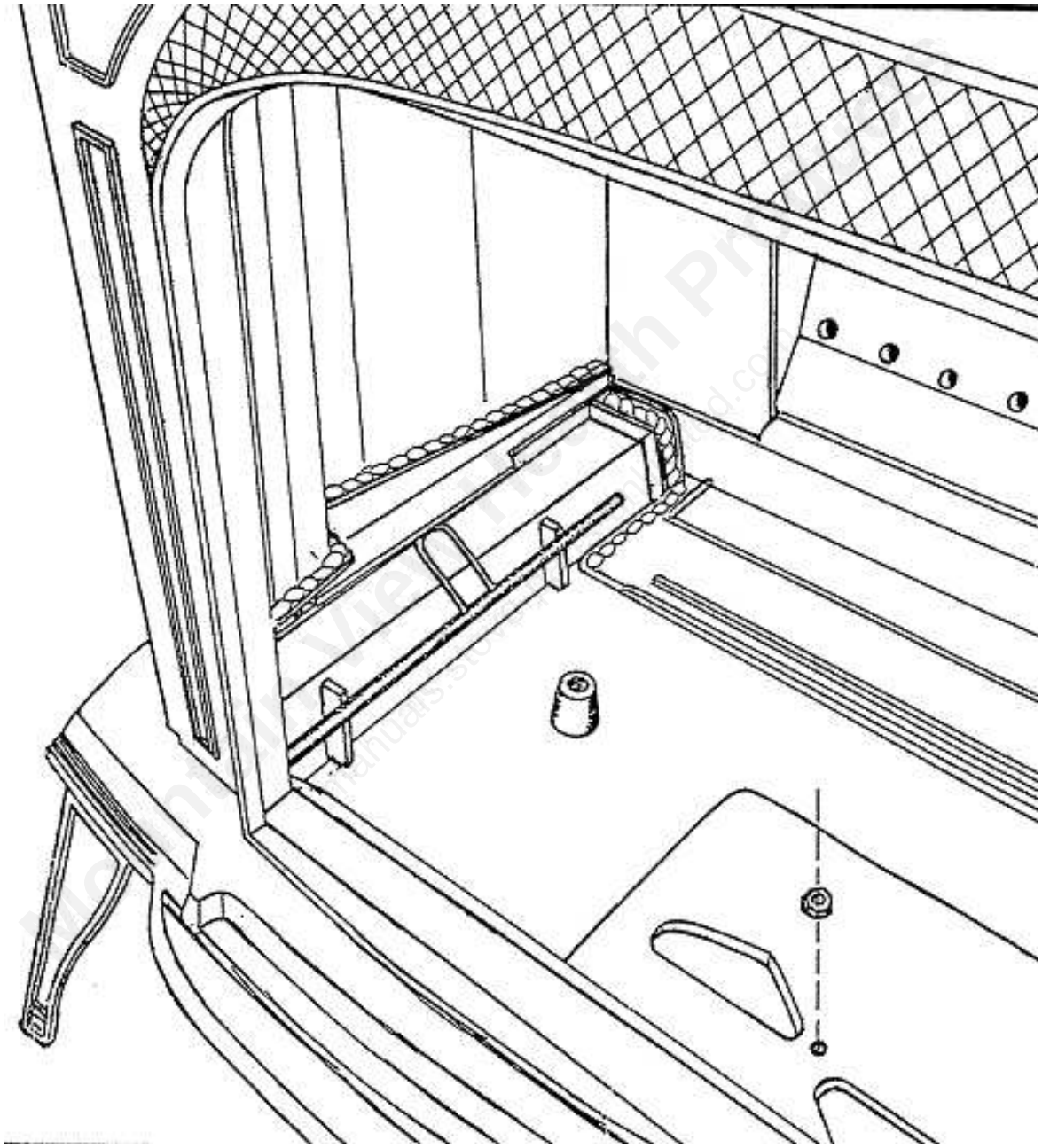


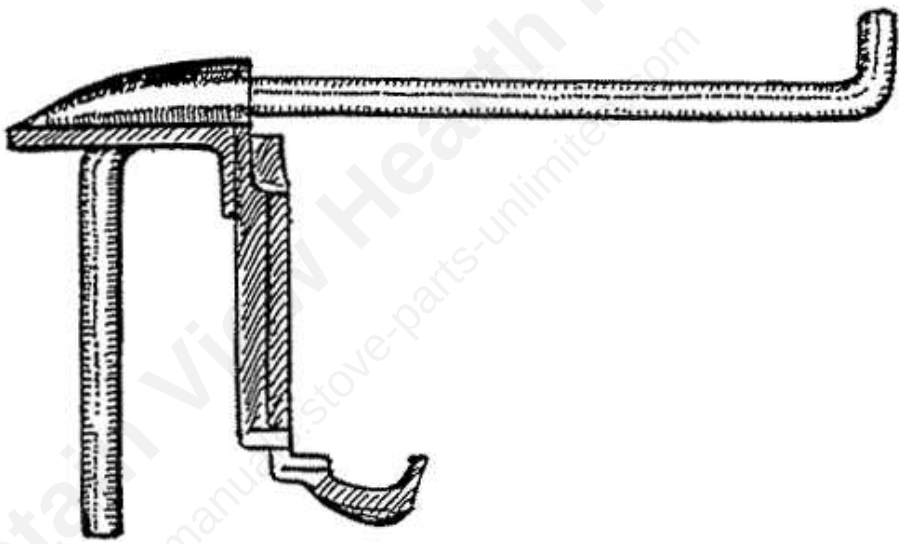
FIG. A-6. INSIDE VIEW OF PARTIALLY ASSEMBLED STOVE
SHOWING CEMENT APPLICATION PRIOR TO INSTALLATION
OF THE SHOULDER PLATES



STEP#31

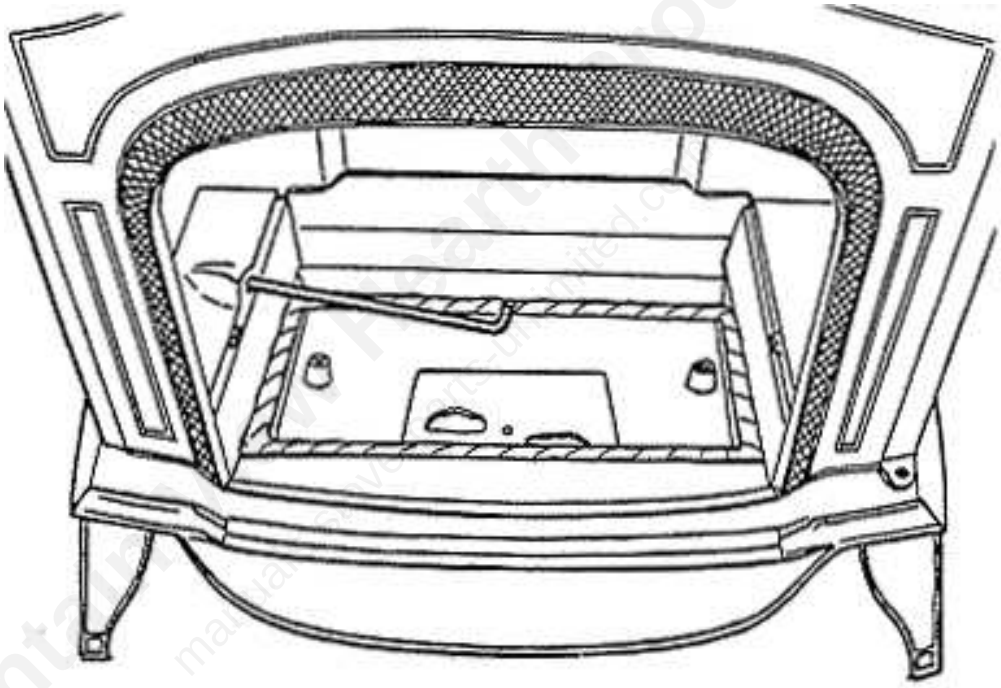
Cement the stove bottom, air manifold, left core side and left shoulder plate at the locations indicated in figure # s A-6 & C-8. Thread the long end of the grate rod through the drilling on the inside of the left shoulder plate so that the long end of the grate rod hangs down perpendicular to the top surface of the shoulder plate, see figure #A-7 below. Install the left shoulder plate and grate rod into position ensuring that the long end of the grate rod enters the loop that is welded to the grate actuator rod. Gently pull and push the grate actuator rod and assure yourself that the short end of the grate rod swivels both way.

Fig. A-7 END VIEW OF THE LEFT SHOULDER PLATE WITH THE GRATE ROD IN PLACE



STEP#32 Cement the stove bottom and the left right shoulder plates at the locations indicated in Figure #A-8. Install the ash pit plate. The two cutouts along the long edge go toward the back of the stove. Secure with 2 each Phillips flat head machine screws, ¼ - 20 x1 ".

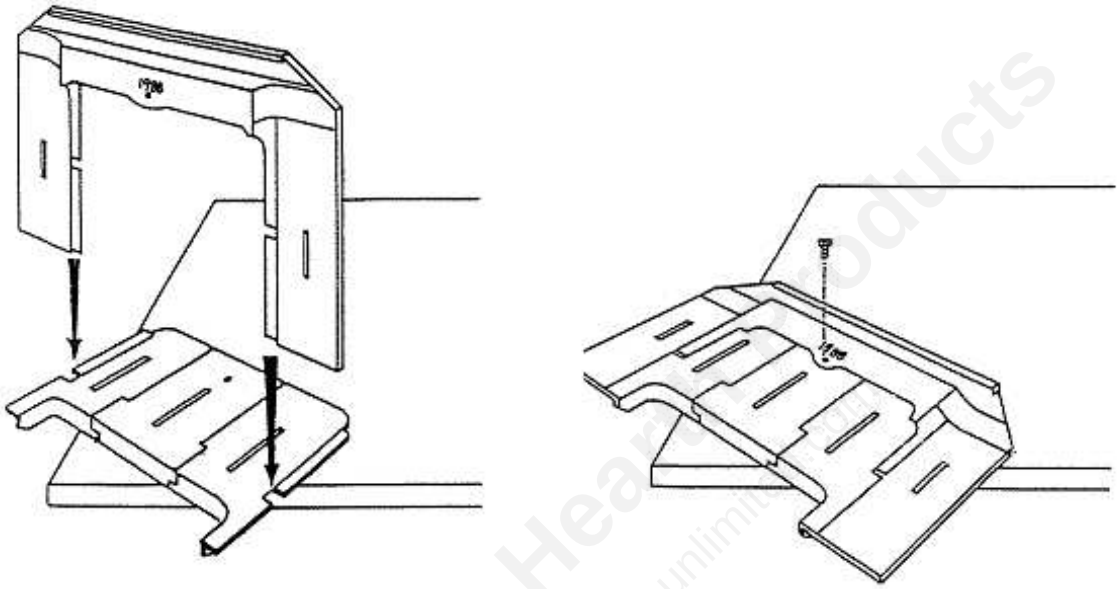
Fig. A-8 INSIDE VIEW OF PARTIALLY ASSEMBLED STOVE SHOWING CEMENT APPLICATION PRIOR TO INSTALLATION OF THE ASH PIT PLATE



STEP#33 Gasket the flue collar and flue collar extension opening at the stove back and top with 52" of ¼", 3 needle, fiberglass gasket material. Install the flue collar extension and secure with 2 each ¼ - 20 x 5/8" hex head cap screws and 2 each ¼" flat washers. Install the flue collar and secure with 2 each ¼ - 20 x 5/8" hex head cap screws and 2 each ¼" flat washers.

STEP#34 Assemble the lower fireback on the corner of a table as shown in Figure #A-9. Secure the center arch insert to the lower fireback with one ¼ -20 x 1" hex head cap screw and one ¼ - 20 square nut. Install the lower fireback assembly and secure it by tapping the two cast wedges downward with the soft face hammer.

Fig. A-9. LOWER FIREBACK/ARCH INSERTS-ASSEMBLY



STEP#35 Install the short stationary grate. The slots for the andirons go toward the front of the stove and the grate slides under the grate rod. Make sure that the slots cast in the grate slide over the ribs cast in the shoulder plates.

STEP#36 Install the long moveable grate. The straight edge toward the front of the stove and the grooved edge toward the rear. Make sure that the grate rod enters the slot cast in the front center of the moveable grate. Push and pull the grate actuator rod to test the grate action.

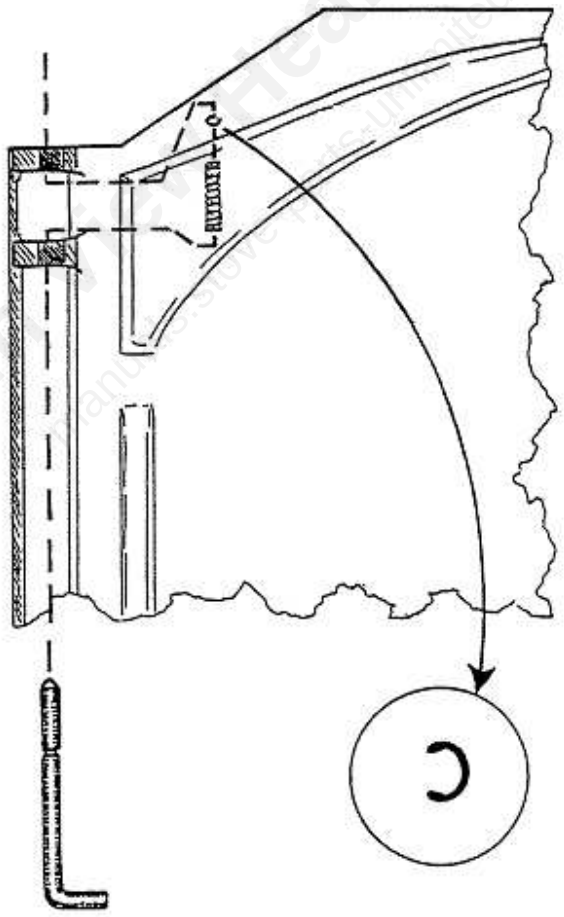
STEP#37 Install the drop-in andirons and the ash pan. Drop the andirons into their respective slots in the front edge of the stationary grate with the cast design on the andirons facing outward.

STEP#38 Clean, wash and prepare the stove for painting. With the putty knife, clean all outside stove seams and joints of any thermocement leakage or spillage. Draw a pail of hot water and with a sponge or soft absorbent rag, wash the stove down, especially the outside seams or joints. Mask the damper handle stub and the plate on the stove back with masking tape.

STEP#39 Paint the stove. Use Vermont Castings High Temperature Stove Paint (black) part number 0000035 (11 oz.). Follow the directions printed on the can and paint the entire outside of the stove.

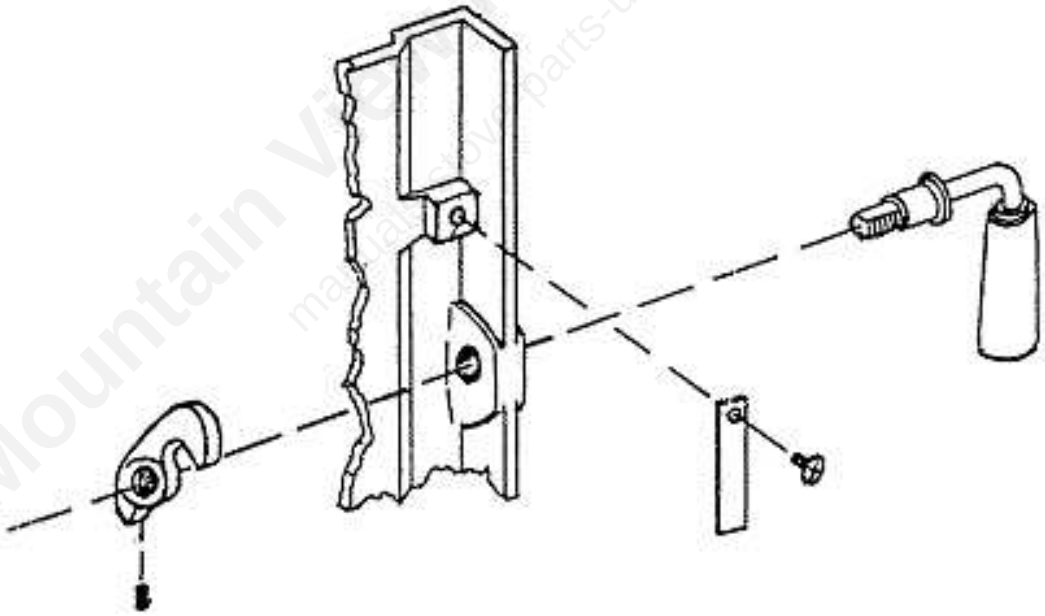
STEP#40 Assemble the loading door. Place the gasketed and painted loading door outside face down on a flat soft surface. Start the long end of the "L"shaped upper hinge pin into the lower drilling of the two upper hinge pin bosses. Place the coil spring between the upper and lower bosses and push the hinge pin up through the coil spring and upper hinge boss. Compress the spring with your finger against the lower hinge boss until the "C" clip groove in the hinge pin is accessible. Grasp the "C" clip at the center of the "C" with needle nose pliers and push the "C" clip into its groove on the upper hinge pin until it is fully seated. Release the spring and pull down on the hinge pin and release it to check operation. See figure #A-10 for details.

Fig. A-10. INSIDE VIEW WITH DETAIL OF THE UPPER LEFT CORNER OF THE LOADING DOOR SHOWING THE HINGE PIN, COMPRESSION SPRING AND "C" CLIP



Place the door latch leaf spring into its groove in the spring boss and secure it with a Phillips truss head machine screw, 10 -24 x ¼". Thread the wood handle onto the door handle shaft until tight. Place the door hook into position with the open portion of the hook facing down and the threaded hole in the hook aligned with the drilled hole in the door flange. Thread the door handle shaft through the door and into the door hook until the flat of the threaded portion of the handle shaft is aligned with the set screw drilling in the door hook and the door hook is against the inside flange of the door but capable of unimpeded movement. Secure the door hook to the handle shaft with a socket head set screw, ¼ - 20 x ¼". Operate the handle a few times to make sure that it works freely and Easily with no binding. If the hook binds loosen the set screw and turn the handle shaft 360° counter clockwise and retighten the set screw. See figure #A-11 for details below.

Fig. A-11. DETAIL OF THE INSIDE CENTER PORTION OF THE LOADING DOOR SHOWING THE COMPONENTS OF THE MOVEABLE PORTION OF THE LATCH MECHANISM



STEP#41

After cleaning the door glass, examine it. Hold the glass upside down with the straight edge uppermost. You will notice a series of letters and/or symbols along the top straight edge etched into the glass on the coated side. This is directional glass which if mounted properly, reflects heat back into the stove. The coated and etched side on the glass goes toward the outside of the door. Place the short flanges of the glass retaining clips in the large gasket grooves and align the holes in the clips with the tapped holes in the glass frame. Secure with 4 each Phillips pan head machine screws, 10 -24 x ¼". Do not over tighten these screws as you may stress and crack the glass.

STEP#42

Install the loading door. Holding the door in the vertical position and 75-90° in relation to the stove front, place the lower hinge drilling onto the adjustable bottom hinge pin. Pull down on the spring loaded upper hinge pin and maneuver top of the door so that the spring loaded hinge pin enters the upper hinge drilling. Listen as you close the door, for any metal to metal contact. Check the upper and lower horizontal alignment of the door in relation to the stove top and the ash lip. If you hear metal to metal contact when closing the door or there is a wide gap at the top, open the door and pull down on the upper hinge pin and lift the door off the lower hinge pin. Loosen the lock nut on the lower hinge pin with your ½"wrench and turn the hinge pin 360°counter clockwise this will raise the door approximately 1/16". Tighten the hinge pin and reinstall the door. Close the door and again listen for metal to metal contact and check alignment. Continue the adjustment process until a good seal is obtained, alignment is good and no metal to metal contact is heard.

STEP#43

Assemble and install the griddle. Place the griddle flat side down on a flat surface. Place the griddle quadrants on the drilled and tapped bosses so that the three protrusions on each quadrant fall into the three dimples in the griddle and the trailing legs of the quadrants flare to the outside of the griddle. Secure the quadrants with two each hex head cap screws, ¼ - 20 x ½". Install the griddle in its proper position in the stove top.