

**OPERATING INSTRUCTIONS
AND PARTS LIST FOR**
Magazine Heaters

MODEL NUMBERS

143.100702 and 143.100802

One of the above Numbers is the Model Number of your Heater.
It will be found on a plate located on the steel body at rear of heater.
Always mention this Model Number in all correspondence regarding
this Heater or when ordering parts.

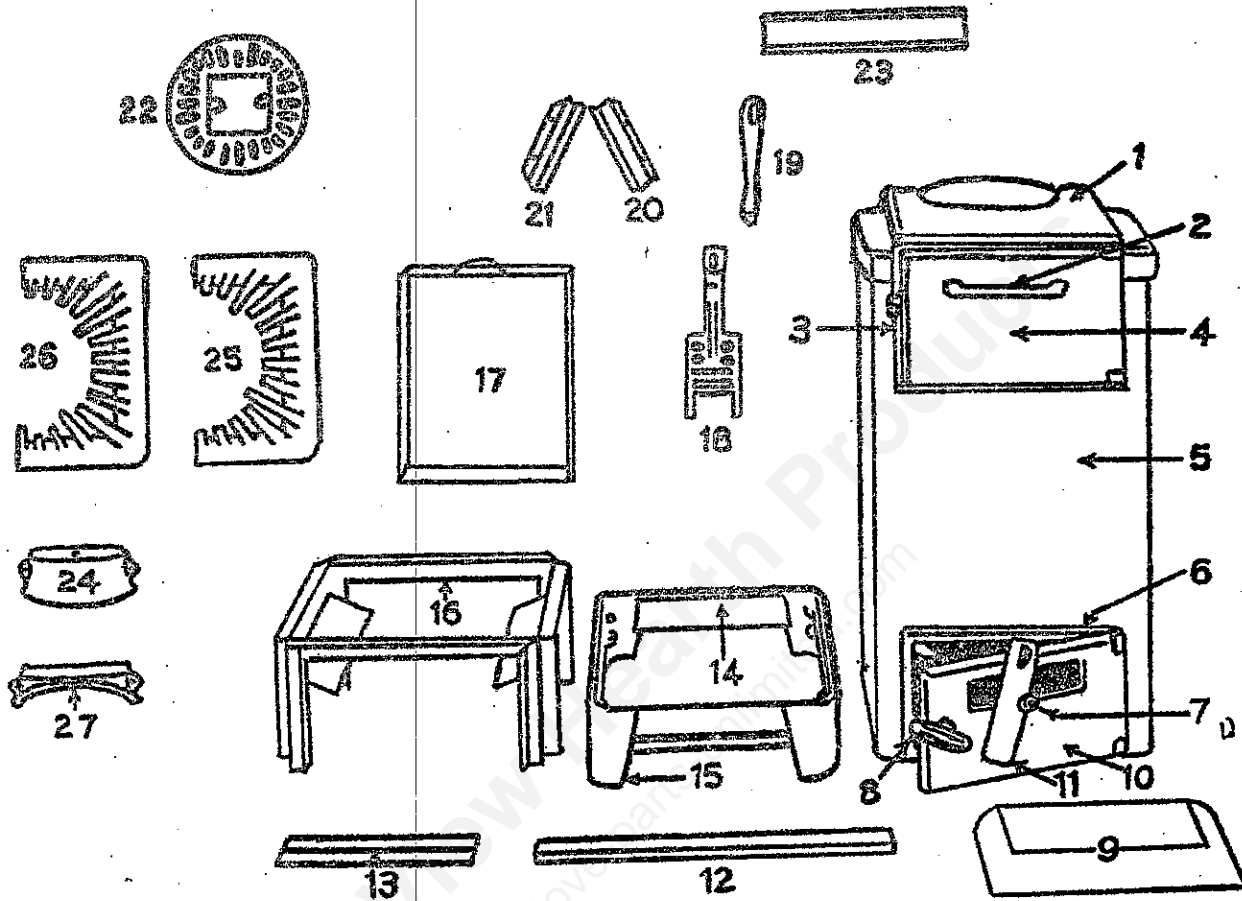
**THIS LIST IS VALUABLE. IT WILL ASSURE YOUR BEING ABLE
TO OBTAIN PROPER PARTS SERVICE AT ALL TIMES. WE
SUGGEST YOU KEEP IT WITH OTHER VALUABLE PAPERS.**

SEARS, ROEBUCK AND CO. U. S. A.

Printed in U. S. A.

MODEL NUMBERS 143.100702 AND 143.100802

All parts listed herein may be ordered through any Sears retail or your nearest mail order store. Selling prices will be furnished on request, or parts will be shipped at prevailing prices and you will be billed accordingly.



WHEN ORDERING REPAIR PARTS ALWAYS GIVE THE FOLLOWING INFORMATION:

- 1. THE PART NUMBER
- 2. THE PART NAME

- 3. THE MODEL NUMBER
- 4. THE NAME OF ITEM—MAGAZINE HEATER

Key Part No.	Part No.	Part Name	Key Part No.	Part No.	Part Name
1	2903	Main or Collar Top	13	2394	Brick Clamp-Under Feed Door
2	2368	Feed Door Handle	14	2233	Base, Front or Back
3	2904	Feed Door Front	15	2234	Base, Side-either
4	2905	Feed Door	16	2395	Brick Support Rest
5	2389	Body, 143.100702	17	2231	Ash Pan
5	2390	Body, 143.100802	18	2740	Draw Grate
6	2220	Ash Pit Front	19	2704	Shaker
7	1617	Ash Pit Draft Door Knob	20	2396	Brick Clamp-Left Side Door
8	1518	Ash Pit Door Handle	21	2397	Brick Clamp-Right Side Door
9	2232	Brick-Liner-Any (11) 143.100802	22	2739	Round Grate
9	2232	Brick-Liner-Any (7) 143.100702	23	2398	Brick Clamps-Top (3)
10	2391	Ash Pit Door	24	2686	Collar Section-Back
11	2392	Ash Pit Draft Door	25	2399	Right Brick Support
12	2393	Brick Clamps-Back-Vertical (2)	26	2400	Left Brick Support
			27	2687	Collar Section-Front

INSTALLATION AND SET UP

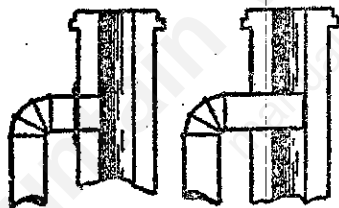
READ THESE INSTRUCTIONS CAREFULLY TO GET BEST RESULTS AND AVOID TROUBLE

1. Check your Heater immediately after uncrating it. MAKE SURE FIREBRICK LININGS AND GRATES ARE IN PROPER POSITION.
2. Because good heater operation is, to a large degree, dependent upon satisfactory chimney draft, check your chimney carefully for loose brick, uncovered stove pipe openings, open cleanout and other potential sources of leakage. (See point 8 for chimney warnings and suggestions.)
3. Locate your heater, insofar as possible, near the center of the space to be heated to obtain good warm air circulation. The heater should be kept at least 36 inches away from combustible material or wall not protected by a shield or metal or by other approved incombustible material.
4. It is recommended that the heater be set on an incombustible stove board.
5. Use new six inch stove pipe if at all possible. Old leaky stove pipe can have a serious effect upon the operation of your heater. The first joint of pipe should rest directly on collar cast in stove pipe top and we do not recommend coming off stove top with an elbow. Keep at least 18 in. clearance between the pipe and ceiling or wall. All horizontal sections of stove pipe should rise at least one inch per foot, sloping upward toward the chimney. The pipe should NEVER be higher than that part which enters the chimney. Avoid long horizontal run of pipe, and use as few elbows as possible. The end of the stove pipe should be flush with the inside of the chimney. UNDER NO CIRCUMSTANCES SHOULD THE PIPE EXTEND INTO THE FLUE. (See Fig. 4.) Any place in which the pipe passes through a combustible partition or floor must be protected by suitable thimble.
6. A manually-operated damper (80% choke) should be installed in the first length of stove pipe that is attached to the heater. If experience with previous heaters indicated high drafts or fluctuating drafts, a BAROMETRIC control should be installed in the stove pipe just above the first length of stove pipe and ABOVE the manual damper. In this case follow closely the instructions with the barometric control. Such a control is not furnished with the heater but can be obtained locally at your Sears store or through Sears catalog.
7. Carefully inspect the stove pipe installation to be sure that there will be no leakage of air or smoke at any of the stove pipe joints or where the stove pipe enters the chimney. The stove pipe at this point should be centered in the chimney opening and all cracks cemented. A good grade of cement can be obtained from any Sears store or through Sears catalog.
8. HERE ARE SOME REASONS WHY A STOVE IS CONDEMNED WHEN THE FAULT IS WITH THE CHIMNEY OR CONNECTIONS:

Do not expect a stove to draw; it is the chimney that creates the draft. Stove pipe may be pushed into chimney too far, stopping the draft (see Fig. 4). Do not connect two stoves with the same chimney flue if possible to avoid it. If it cannot be avoided be sure that one pipe hole is higher than the other so that the two pipes will not be opposite each other.

The chimney that is used for a stove must not be used to ventilate the cellar or basement. If there is a cleanout opening at the base of the chimney it must be closed tight.

If the fire burns well generally, but sometimes smokes or burns slowly for no apparent reason, it may be caused by the chimney top being lower than another part of the house or a nearby tree (see Fig. 5). The wind blowing over the house or tree falls on top of the chimney like water over a dam, heating down the smoke. The remedy is to build up the chimney or put on a smoke stack to equal the height of the main building (see Fig. 6).



Right Fig. 4 Wrong



Fig. 5



Fig. 6

OPERATING THE HEATER

It is recommended that a 2 in. x 3 in. size coal be used in this heater. Do not use slack coal or a coal containing excessive fine dust as puffing may result.

CAUTION: Before starting to build a fire, make certain that grates are in proper position.

Use crushed paper and kindling to start the fire, letting this burn freely before adding a small quantity of coal.

NOTE: When building a fire in the heater for the first time, use only a small amount of coal and allow this to burn very slowly for a period of three or four hours. This will tend to prolong the life of the firebrick.

(Continued on next page)

SHAKING GRATE

Operate grates through draft slide opening in ash pit door. It is not necessary to open ash door to shake grates. The ashes **SHOULD** be removed every time you shake the heater.

If ashes are **ALLOWED** to accumulate until they **TOUCH** the grate, the grate will burn out in a very short time. To shake the grate, turn draft slide down. Connect shaker. Only 2-inch movement, normally, of the shaker handle is all that is required. Watch through draft opening and shake only until a few hot coals drop through, leaving a thin layer of ashes on the grate tends to lengthen grate life. For removal of clinkers or dumping the fuel bed, use greater movement of shaker handle.

REPLACING FIREBRICK LINING

1. Remove 6 bolts in main top—2 in front—2 in back—1 on each side.
2. If top brick are to be replaced simply lift out burned out brick and replace with new. To replace bottom brick it is necessary to remove top brick first. Replace bottom and then top brick in order. It is not necessary to remove steel strips in corner unless they are burned badly and require replacement.
3. In the Model 143.100702 the brick are placed horizontally—in the 143.100802 Model they are vertical. In either case they can be picked out with the hands.
4. Note manner in which bricks were set, especially with reference to bevelled edges.
5. Replace brick in same relative position.
6. Replace the main top. Use stove cement on top, which may be secured from any Sears store.
7. The heater is now ready to be fired. It is recommended, however, that for the first few hours the fire be kept very low in order that the moisture in the firebrick will dry out slowly, thus preventing possible cracking and so greatly prolong the life of the brick.

BURNED OUT PARTS

Grates: Never allow the ashes to pile up in the ash pan to where they will be less than 2 inches from the grate. **NEVER OVERHEAT** the heater. This will shorten the life of its parts.

WE SUGGEST THAT YOU WRITE YOUR ORDERS FOR REPAIR PARTS LIKE THE FOLLOWING:

SEARS, ROEBUCK AND CO.

Please send me by parcel post the following parts for my Magazine Heater,
Model Number 143.100702:

1 Each Illustration No. 18, Part No. 2740 Draw Grate _____

1 Each Illustration No. 10, Part No. 2391 Ash Door _____

YOUR NAME AND ADDRESS HERE