

CHICAGO

Electric Power Tools

WALLPAPER STEAMER

Model 91098

ASSEMBLY AND OPERATING INSTRUCTIONS



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Visit our Web site at: <http://www.harborfreight.com>

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For technical questions, please call 1-800-444-3353.

PRODUCT SPECIFICATIONS

Motor	120V, 1200 Watts
Tank Capacity	1.2 Gallons
Steam Duration	140 Minutes
Working Temperature	212° Fahrenheit
Rise Time To Steam	5 to 25 Minutes
Steam Plate	7" W x 11" L
Power Cord	16 AWG x 6 Feet
Features a Thermal Safety Cut-off Switch.	



SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY RULES

 **WARNING!**

READ AND UNDERSTAND ALL INSTRUCTIONS
Failure to follow all instructions listed below may result in
electric shock, fire, and/or serious injury.
SAVE THESE INSTRUCTIONS

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control. Protect others in the work area from escaping steam. Provide barriers or shields as needed.

ELECTRICAL SAFETY

4. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
5. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
6. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
7. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
8. **Do not abuse the Power Cord. Never use the Power Cord to carry the tools or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.
9. **When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These extension cords are rated for outdoor use, and reduce the risk of electric shock.

PERSONAL SAFETY

10. **Stay alert. Watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
11. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair.**
12. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the power tool in unexpected situations.
13. **Use safety equipment. Always wear eye protection.** Rubber gloves, protective clothing, and non-skid safety shoes, must be used for appropriate conditions.

TOOL USE AND CARE

14. **Do not force the tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
15. **Disconnect the Power Cord Plug from the power source and allow the unit to cool before making any adjustments, changing accessories, or storing the tool.**
16. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
17. **Maintain tools with care. Keep tools and clean.** Do not use a damaged tool. Tag damaged tools “Do not use” until repaired.
18. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool’s operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
19. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.

SERVICE

20. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
21. **When servicing a tool, use only identical replacement parts. Follow instructions in the “*Inspection, Maintenance, And Cleaning*” section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES

1. **Maintain labels and nameplates on the Steamer.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
2. **Always wear safety impact eye goggles when using the Steamer.** Using personal safety devices reduce the risk for injury. Safety impact eye goggles are available from Harbor Freight Tools.
3. **Maintain a safe working environment.** Keep the work area well lit. Make sure there is adequate surrounding workspace. Always keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use a power tool in areas near flammable chemicals, dusts, and vapors. Do not use this product in a damp or wet location.

4. **Avoid unintentional starting.** Make sure you are prepared to begin work before plugging in the Steamer.
5. **Do not force the Steamer.** This tool will do the work better and safer at the speed and capacity for which it was designed.
6. **Never leave the Steamer unattended when it is plugged into an electrical outlet.** Unplug it from its electrical outlet and allow it to cool before leaving.
7. **Always unplug the Steamer from its electrical outlet and allow it to cool before performing inspection, maintenance, cleaning procedures, or changing accessories.**
8. **Do not allow water or steam to enter the plug or socket.**
9. **Wear heat resistant gloves.** The water to make steam is heated to 212° Fahrenheit. Wear protective clothing and protect your hands.
10. **Never remove the Filler Cap (5) or detach the Hose (4) while the appliance is operating or before it has cooled.**
11. **Do not pull on the Hose (4) or carry the unit by the Hose (4) or Power Cord (12).**
12. **Keep the work area clear of children, pets, and bystanders.**
13. **During operation, do not stand or step on the Boiler Unit (8) or Hose (4).**
14. **Never block the safety valve.**
15. **Only operate the unit when the Boiler Unit (8) is on a flat, level surface.** Failure to do so will result in severe overheating, damaging the unit.
16. **Never point the Hose (4) or any attachment at anyone.**
17. **Always keep all attachments away from the face and body.** Beware of dripping hot water, and regularly empty collected condensation from the Steam Plate (6); especially prior to stripping ceilings and high areas.
18. **After disconnecting power, wait at least two minutes before removing the Filler Cap (5) to refill the Boiler Unit (8).**
19. **Do not overfill the reservoir.** Use only standard tap water. Never add detergents or chemicals.
20. **Never use the Steamer when the Boiler Unit is in a suspended position.** This will result in possible injury and damage to the unit.
21. **Extreme care must be used when operating the Steamer in close proximity to standing water.** Always be aware of the danger of electrocution from stored water in baths, sinks, etc.
22. **Do not use the Steamer if the Power Cord (12) is damaged.**

GROUNDING

WARNING!

Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

GROUNDING TOOLS: TOOLS WITH THREE PRONG PLUGS

1. Tools marked with “Grounding Required” have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See Figure A.)**
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool’s grounding system and must never be attached to an electrically “live” terminal. **(See Figure A.)**
3. Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the illustration to the right. **(See Figure A.)**

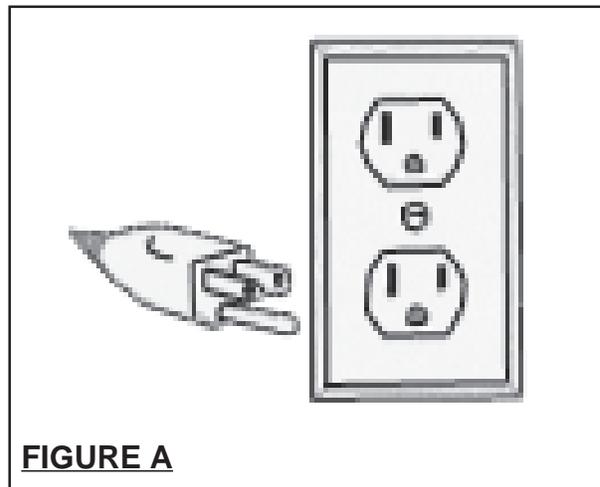
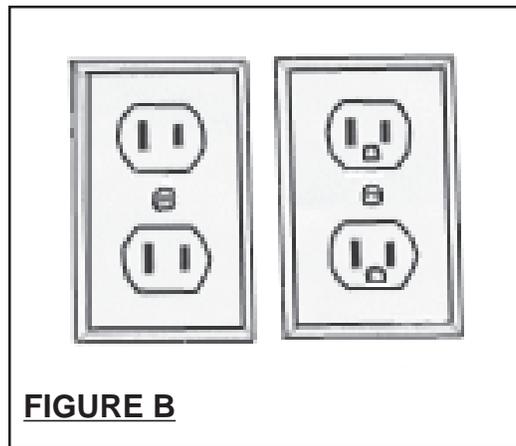


FIGURE A

DOUBLE INSULATED TOOLS: TOOLS WITH TWO PRONG PLUGS

4. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. **(See Figure B.)**
5. Double insulated tools may be used in either of the 120 volt outlets shown in the following illustration. **(See Figure B.)**



EXTENSION CORDS

1. **Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Figure C, next page.)**
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Figure C.)**
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Figure C.)**
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Figure C.)**

6. If you are using an extension cord outdoors, make sure it is marked with the suffix “W-A” (“W” in Canada) to indicate it is acceptable for outdoor use.
7. Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120 VOLT)					
NAMEPLATE AMPERES (At Full Load)	EXTENSION CORD LENGTH				
	25 FEET	50 FEET	75 FEET	100 FEET	150 FEET
0 - 2.0	18	18	16	16	16
2.1 - 3.4	18	18	16	14	14
3.5 - 5.0	18	18	16	14	12
5.1 - 7.0	18	16	14	12	12
7.1 - 12.0	18	14	12	10	-
12.1 - 16.0	14	12	10	-	-
16.1 - 20.0	12	10	-	-	-

FIGURE C *Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

SYMBOLOLOGY

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
V ~	Volts Alternating Current
A	Amperes
n_oxxxx/min.	No Load Revolutions per Minute (RPM)

UNPACKING

When unpacking, check to make sure all the parts shown on the **Parts List on page 12** are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

ASSEMBLY AND OPERATING INSTRUCTIONS

NOTE: For additional information regarding the parts listed in the following pages, refer to the **Assembly Diagram on page 12**.

Caution: Always make sure the Power Cord of the Wallpaper Steamer is unplugged from its electrical outlet and the unit is cool *prior* to making any adjustments on the tool.

Filling The Boiler Unit (8).

Refer to the Assembly Drawing on page 12.

1. Remove the Filler Cap (5).
2. Fill the Boiler Unit (8) with clean, hot water all the way to capacity. Replace the Filler Cap (5). **Note:** At full capacity, the unit should heat up in approximately 25 minutes, and produce steam for 140 minutes.

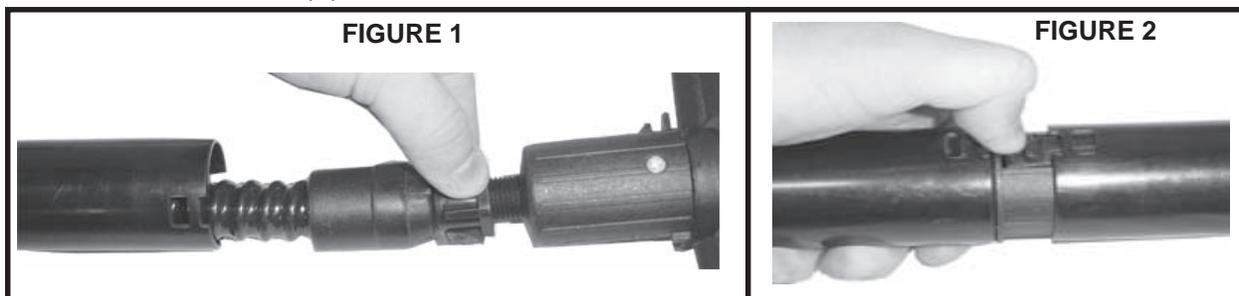
Warning!! Do not overfill the Boiler Unit (8) or water will be forced up the steam hose, burning the operator and damaging the unit. A **safety cut-off** will turn off the unit if the water level drops below the “MIN” line. If that happens, let the unit cool down and wait a minimum of 2 minutes before removing the Filler Cap (5) prior to refill and start up. The **safety cut-off** feature will not work if the unit is tilted during operation. **You can permanently damage the unit by allowing the water level to fall too low by working with the unit tilted.**

Connecting the Steam Hoses.

Refer to **FIGURES 1** and **2** below.

Note: The Hose and attachments are all threaded. Always thread the plastic parts gently. Forcing plastic threaded parts may break them, damaging the product.

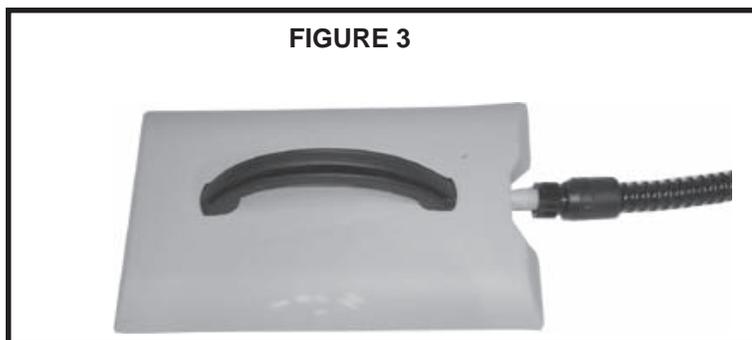
1. When connecting the Nozzle (7), Steam Plate (6), or Brush (1) to the Hose (4), gently thread on the appropriate attachment as shown in **FIGURE 1**.
2. **FIGURE 2** shows how to disconnect the Brush(1), Connector(3), Long Pipes (9), or Brush Handle (2).



OPERATING INSTRUCTIONS

Wallpaper Stripping

Note: **FIGURE 3** shows the Steam Plate (6) connected to the Hose (4), which is connected to the Boiler Unit (8).



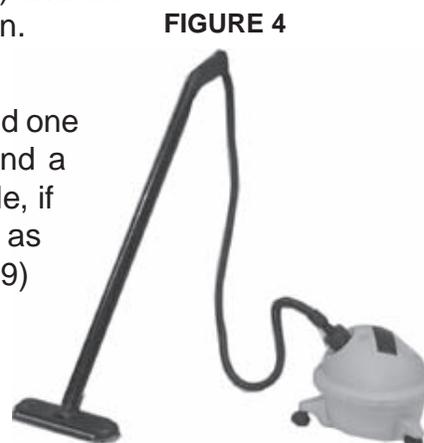
1. After connecting the Steam Plate (6) accessory to the Boiler Unit (8), plug in the Power Cord (12) and wait approximately 25 minutes for the unit to produce steam.

Warning!! Once the unit is heated, it is constantly produces steam that causes severe burns if it comes in contact with unprotected skin. Keep children, pets, and bystanders out of the area, and wear appropriate protective clothing. This hot steamer can also damage property.

2. Hold the Steam Plate (6) flat against the wallpaper for approximately 10 seconds. Then, move the plate immediately, to the spot next to the one just steamed. Remove the wallpaper from the steamed section with the aid of a scraper (not included). If the wallpaper does not easily come off, steam it for a slightly longer duration. Wallpapers and glues vary, with some requiring longer steam sessions.
3. Continue operating until the water level is low (but above the “MIN” line). Then, unplug the unit and wait a minimum of two minutes for it to cool. **BEWARE OF escaping steam as you remove the Filler Cap (5).** Refill the unit.
4. When finished, allow the unit to cool completely and then empty the unit. Always store the unit empty.

Note: You may use this Steamer for other cleaning applications using the included accessories. **FIGURE 4** shows the Brush (1), Long Pipes (9) and the Brush Handle (2) connected to the Hose (4) and the Boiler Unit (8) for a typical steam cleaning operation.

1. To Assemble the Handle (2) and Brush (1): Insert the Hose (4) through the Brush Handle (2) and one Long Pipe (9). You can use the Connector (3) and a second Long Pipe (9) to further lengthen the handle, if desired. Screw the Hose (4) onto the Brush (1), as shown in **FIGURE 1**. Then, connect the Long Pipe (9) to the Brush (1). Refer to **FIGURE 4**.



TROUBLESHOOTING

The Boiler Unit (8) fails to produce steam.

1. Check that the Power Cord (12) is properly plugged into the wall outlet and the Boiler Unit (8).
2. If the safety cut-off engaged, it will need ample time to cool and reset.
3. The safety cut-off device was damaged from working with a tilted unit.

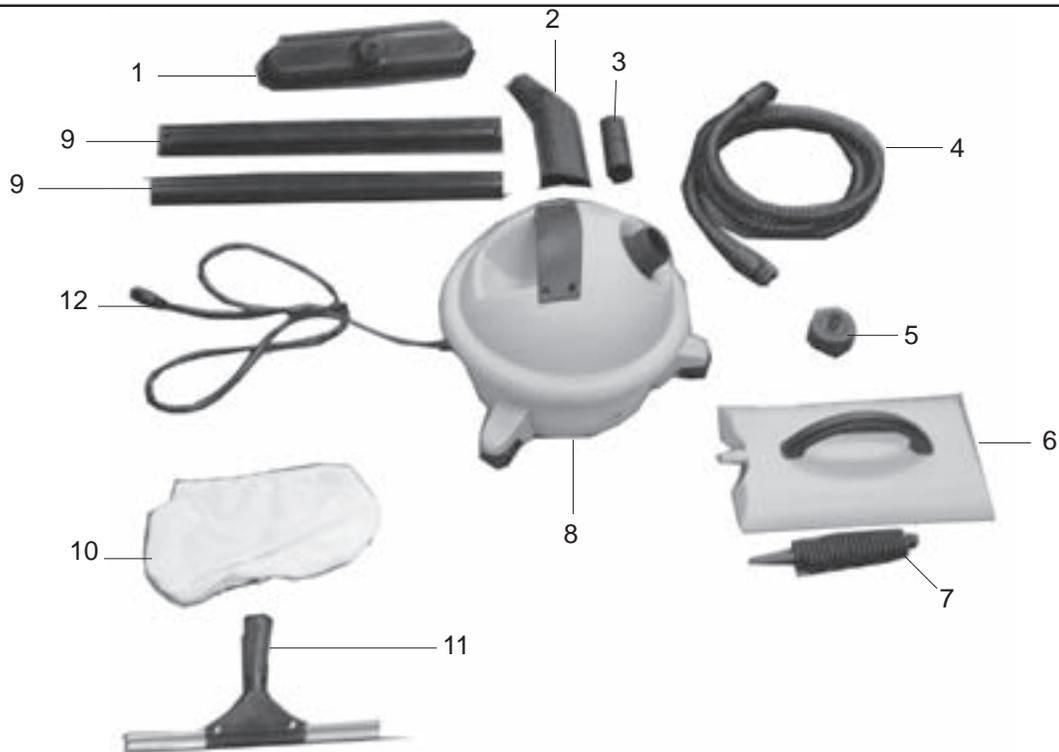
The Boiler Unit (8) leaks steam from the pressure release valve.

1. The pressure release valve is a special low pressure valve that cannot be replaced by another valve. If steam leaks from the valve, the most likely cause is a blockage in the steam Hose (4). Allow the unit to cool and check the Hose (4) for blockages.

INSPECTION, MAINTENANCE, AND CLEANING

1.  **WARNING!** Make sure the unit is unplugged from its electrical outlet and thoroughly cooled down before performing any inspection, maintenance, or cleaning procedures.
2. **BEFORE EACH USE**, inspect the general condition of the Wallpaper Steamer. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use. **Do not use damaged equipment.**
3. Wipe down the unit and dry the accessories with the Rag (10).
4. Areas with hard water, or when using tap water, will eventually leave a scaly film on the element in the Boiler Unit (8). Use an over-the-counter descaling product to clean out the Boiler Unit (8). Follow the descaling product manufacturer's instructions.

ASSEMBLY DIAGRAM



NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

PARTS LIST

Part No.	Description	Part No.	Description
1	Brush	7	Nozzle
2	Brush Handle	8	Boiler Unit
3	Connector	9	Long Pipe (2)
4	Hose	10	Rag
5	Filler Cap	11	Squeegee
6	Steam Plate	12	Power Cord

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.