

CHICAGO

Electric Power Tools

2 HP PRESSURE WASHER 1300 PSI

Model 92146

ASSEMBLY AND OPERATING INSTRUCTIONS



3491 Mission Oaks Blvd., Camarillo, CA 93011
Visit our Web site at: <http://www.harborfreight.com>

**TO PREVENT SERIOUS INJURY,
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

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

PRODUCT SPECIFICATIONS

Item	Description
Electrical Requirements	120V / 60 Hz / 13 Amps / 3400 RPM 3-Prong GFCI Power Plug 35 Ft. Long Power Cord (16 AWG x 3C) Automatic Start and Stop
Water Pressure	1300 PSI
Flow Rate	1.7 Gallons Per Minute
Hose Length	16 Ft.
Lance Total Length	33-1/4"
Accessories	Detergent Bottle Garden Hose Adapter
Weight	27.5 Pounds
Recommended Water Supply	3.4 GPM (3 GPM Minimum)
Minimum Water Intake Hose I.D.	0'-50' = 5/8" 50'-100' = 3/4"



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.

UNPACKING

When unpacking, check to make sure all the parts shown on the **Parts Lists on pages 17 and 19** 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.

GENERAL SAFETY RULES

IMPORTANT SAFETY INSTRUCTIONS



READ AND UNDERSTAND ALL INSTRUCTIONS
Failure to follow all instructions listed in the following pages 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 flammables.
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 debris such as chips and sparks. Provide barriers or shields as needed.

ELECTRICAL SAFETY

1. **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.
2. **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.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **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.
5. **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

1. **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.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **Avoid accidental starting. Be sure the Power Switch is off before plugging in.** Carrying power tools with your finger on the Power Switch/Trigger, or plugging in power tools with the Power Switch on, invites accidents.
4. **Remove adjusting keys or wrenches before turning the power tool on.** A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.
5. **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.
6. **Use safety equipment. Always wear eye protection.** Non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Always wear ANSI approved safety impact goggles and thick rubber boots during use and maintenance.

TOOL USE AND CARE

1. **Use clamps or other practical ways to secure and support the workpiece to a stable platform.** Holding the work by hand is unstable and may lead to loss of control. Only work on a workpiece that is properly secured. Holding any object while it is pressure washed can cause serious personal injury by the high pressure stream.
2. **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. Do not use small equipment, tools, or attachments to do the work of larger industrial equipment, tools, or attachments. Do not use this product for a purpose for which it was not intended.
3. **Do not use the power tool if the Power Switch does not turn it on or off.** Any tool that cannot be controlled with the Power Switch is dangerous and must be replaced.

4. **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
5. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **Maintain tools with care. Maintain tools with care. Keep tools clean.** Properly maintained tools are easier to control. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
7. **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.
8. **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

1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
2. **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 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 the Pressure Washer in areas near flammable chemicals, dusts, and vapors.
2. **Maintain labels and nameplates on the Pressure Washer.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
3.  **WARNING! RISK OF INJECTION OR SEVERE INJURY!**
Keep clear of Nozzle. Do not direct discharge stream at people or animals. Keep the work area clear of all people and animals.

4. **Use the right product for the right job.** There are certain applications for which this product was designed. Do not use small equipment, tools, or attachments to do the work of larger industrial equipment, tools, or attachments. Do not use this product for a purpose for which it was not intended.
5. **This product must continuously run with cold water only. Never use hot water. Dry running will cause serious damage to the seals.** Make sure the water supply used for the Pressure Washer is not dirty, sandy, and does not contain any corrosive chemical products.
6. **To avoid electrical shock, never start or run the Pressure Washer in the rain.** Never allow water to leak inside the Body of the Pressure Washer. Do not direct discharge stream at the Pressure Washer itself, its Cord or Plug, or at other live electrical equipment.
7. **Do not allow the Ground Fault Circuit Interrupter to become wet. Always place the GFCI in a dry location and as far away as possible from the object being sprayed.** Keep all electrical connections dry and off the ground.
8. **When using the Pressure Washer, always maintain a firm grip on the Wash Gun with both hands.** Squeezing the Trigger of the Wash Gun causes a kick-back force.
9. **Do not pull or carry the Power Washer by its Power Cord, or pull the Cord around sharp corners or edges.** Do not unplug the Power Washer by pulling on the Cord. Keep the Cord away from heated surfaces.
10. **Do not handle the Ground Fault Circuit Interrupter with wet hands.**
11. **Avoid unintentional starting.** Make sure you are prepared to begin work before turning on the Pressure Washer.
12. **The work area should have adequate drainage to reduce the possibility of a fall due to slippery surfaces.**
13. **This product is intended for outdoor residential use only.**
14. **Some chemicals or detergents may be harmful if inhaled or ingested.** Use an ANSI approved respirator or mask whenever there is a chance that vapors may be inhaled.
15. **Keep the High Pressure Hose connected to the Pressure Washer and Spray Gun while the system is pressurized.** Disconnecting the Pressure Hose while the unit is pressurized is dangerous, and may cause injury.
16. **Prior to starting the Pressure Washer in cold weather, check all of the parts of the unit to make sure ice has not formed.** Do not store the unit where the temperature will fall below 32° F (0° C). (See “Inspection, Maintenance, and Cleaning” section.)

17. **This Pressure Washer requires a minimum water input flow of 3 gallons per minute.**
18. **When dispensing detergent, apply the detergent to the cleaning area at low pressure only.** Then, spray the detergent off the cleaning area by using the adjustable Nozzle.
19. **CAUTION: The high pressure water flow can damage the work surface if not used properly.** Always test the spray in an open area first.
20. **Never move the Pressure Washer by pulling on the High Pressure Hose.** Use the Handle provided on the top of the unit.
21. **NEVER leave the Pressure Washer unattended when it is plugged into an electrical outlet. It is hazardous to leave this unit unattended, especially with an inadequate water supply.** Turn off the Pressure Washer and unplug it from its electrical outlet before leaving.
22. **If water is leaking out of the Pressure Washer, immediately shut off the unit.** Unplug the Pressure Washer, and discharge all pressure before tightening fittings or having repair work done by a qualified technician.
23.  **WARNING!** People with pacemakers should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference to, or failure of the pacemaker.
24.  **WARNING!** The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

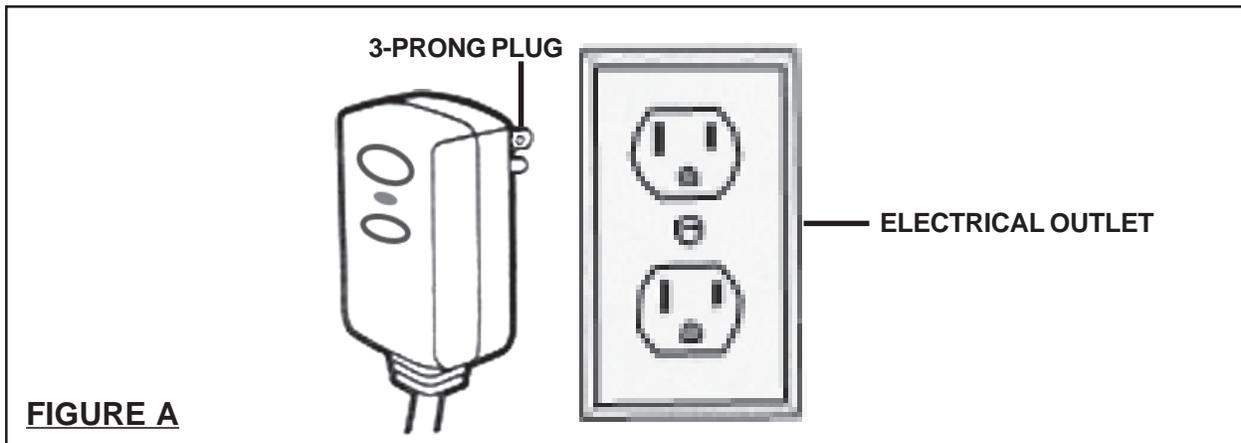
GROUNDING

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 that in the following illustration. **(See Figure A.)**



EXTENSION CORDS

1. **Grounded** tools require a 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 B, 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 B.)**
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 B.)**
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 B.)**

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.
9. If an extension cord is needed, only use a cord with the proper gauge wire. (See Figure B.)

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	18	18	16
2.1-3.4	18	18	18	16	14
3.5-5.0	18	18	16	14	12
5.1-7.0	18	16	14	12	12
7.1-12.0	16	14	12	10	-
12.1-16.0	14	12	10	-	-
16.1-20.0	12	10	-	-	-

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

WARNING: NEVER use 16 or 18 gauge extension cords of any length on this Pressure Washer.

SYMBOLOLOGY

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

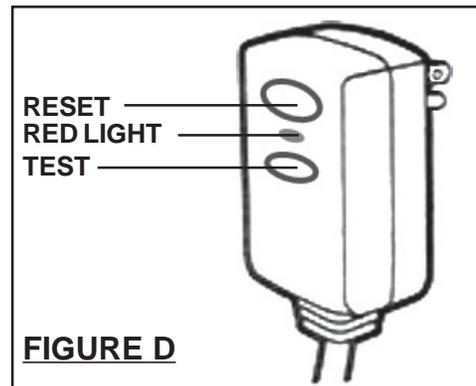
FIGURE C

PRODUCT FEATURES AND PRECAUTIONS

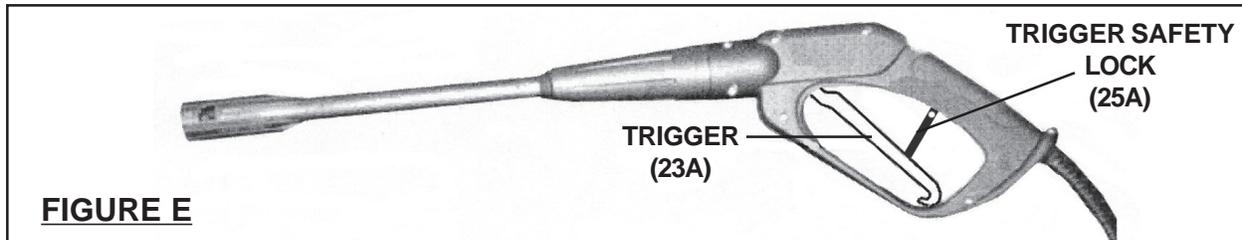
NOTICE: Prior to using the pressure washer for the first time, it is **IMPORTANT** that it has been determined that there is an adequate water supply. The Pressure Washer needs **TWICE** the volume of the stated water output (1.7 GPM). This Pressure Washer will need 3.4 GPM to operate correctly and efficiently. If the water is supplied by a well, make certain that the well produces enough water to keep up with the Pressure Washer's water demand. **FLOW RATE OF THE WATER SUPPLY MUST NEVER FALL BELOW 3 GPM.** Flow rate can be determined by running the water at full pressure (valve completely open) for one minute into an empty 5 gallon container, then measuring the amount of water in the container.

CAUTION! If the pump is run without an adequate water supply, the Pressure Washer will cavitate. Cavitation causes the pump to vibrate and operate loudly, and will damage the pump.

1. **IMPORTANT! Prior to turning on the Pressure Washer connect the unit to the water supply. Turn on the water and squeeze the Trigger (23A) until water flows out of the Wash Gun.** This removes air from the system and allows the unit to properly perform. **Failure to follow this Step will damage the Pump.**
2. **The Pressure Washer features an automatic ON/OFF Micro Switch (27).** The Motor (33) of the Pressure Washer does not run continuously, but only when the Trigger (23A) is squeezed. When spraying water through the unit stops, the Motor will automatically shut off.
3. **The Pressure Washer features a 3-Prong, Ground Fault Circuit Interrupter (GFCI) Power Plug (59).** The GFCI Power Plug provides additional protection from the risk of electrical shock. Make sure the Trigger (23A) is released before plugging in. Plug the GFCI Power Plug into a grounded, 120 volt, electrical outlet. Press the TEST button and then the RESET button. The indicator on the Power Plug should appear red. If the indicator is not red after several tries, have both the Power Plug and receptacle inspected by a qualified electrician. Should replacement of the GFCI Power Plug become necessary, only a qualified technician should perform the service. Never attempt to alter or disable the GFCI Power Plug. **(See Figure D.)**



4. **NOTE:** The Pressure Washer will not pressurize if the Nozzle is not completely assembled. It will not work properly with only part of the Wand installed.
5. **The Pressure Washer is equipped with a Trigger Safety Lock (25A).** When the Pressure Washer is not in use, use the Safety Lock to avoid accidentally engaging the high pressure spray. To engage the Safety Lock, lower the Lever and snap it into the Trigger (23A). **(See Figure E.)**



Pre-Operation Tips:

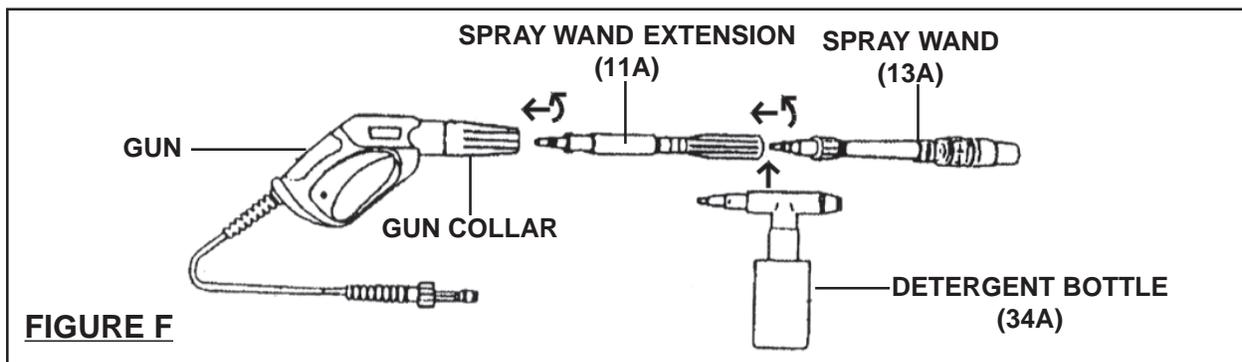
1. The optimum angle for spraying water against a surface is 45 degrees. A 90 degree angle or direct impact of the water onto the surface can cause dirt particles to become imbedded in the cleaning surface and debris and high speed water to reflect back at the operator.
2. The distance between the Nozzle and the cleaning surface directly affects the impact force of the water. The closer the Nozzle is to the surface, the stronger the impact.
3. The use of detergents can dramatically reduce cleaning time and assist in the removal of stains. Detergents work best when applied at low pressure. Only use non-corrosive detergents specifically designed for pressure washer use.
4. The cleaning power of detergents comes from applying them to a surface and giving the chemicals time to breakdown the dirt and grime.

ASSEMBLY AND OPERATING INSTRUCTIONS

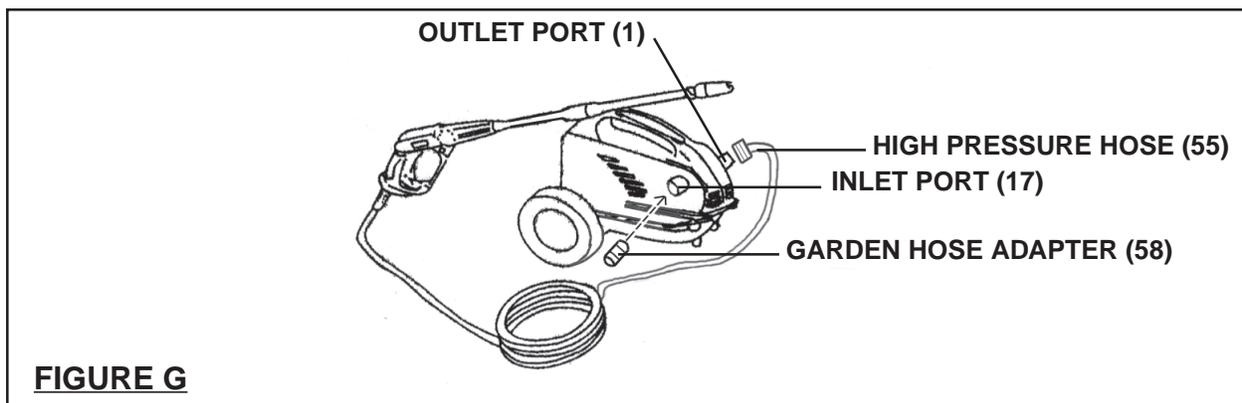
NOTE: For additional references to the parts listed in the following pages, refer to the **Assembly Diagrams on pages 18 and 19.**

To Set Up The Pressure Washer:

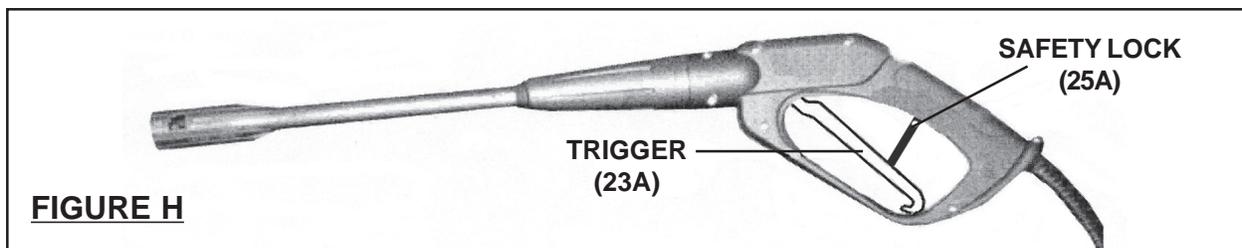
1. Attach the Spray Wand Extension (11A) to the Gun by inserting the tip of the Wand into the Gun Collar. Then push in firmly and rotate to secure the Wand to the Gun. **(See Figure F.)**
2. The Spray Wand (13A) and Detergent Bottle (34A) can be attached to the Spray Wand Extension (11A) in the same manner, by pushing in the accessory and rotating to secure the accessory to the Spray Wand Extension. **(See Figure F.)**



3. Remove the protective plastic caps from the unit's water Inlet Port (17) and water Outlet Port (1). **(See Figure G.)**
4. Firmly attach the Garden Hose Adapter (58) to the water Inlet Port (17). **(See Figure G.)**
5. Firmly attach the High Pressure Hose (55) to the water Outlet Port (1). **(See Figure G.)**



6. Attach a garden hose (not included) of the appropriate size ($\frac{5}{8}$ - $\frac{3}{4}$ " ID) to the Garden Hose Adapter (58). Then attach the other end of the garden hose to a cold water faucet, and fully turn on the water supply. **CAUTION! Use only cold water in this Pressure Washer. (See Figure G.)**
7. Plug the Power Cord Plug into a 120 volt, grounded, electrical outlet. Then, squeeze the Trigger (23A) and allow water to flow through the Wand. **(See Figure H.)**
8. Press the Power Switch (52) to the **ON** position (or "O" symbol) located at the rear of the unit. Raise the Safety Lock (25A) to actuate the use of the Trigger (23A). **NOTE:** The Pressure Washer will not operate until the Trigger is squeezed. The Motor of the Pressure Washer will not run continuously. The Motor only runs while the Trigger is being squeezed. **(See Figure H.)**



9. When finished spraying, release the Trigger (23A). To disable the Trigger, lower the Safety Lock (25A) and snap it into the Trigger. **CAUTION! Always lock the Trigger before making any spray pattern adjustments. (See Figure H.)**
10. When the work is complete, press the Power Switch (52) to the **OFF** position (or "I" symbol).
11. Make sure to shut off the water supply and discharge any water pressure from the Pressure Washer in a safe direction by squeezing the Trigger (23A). **(See Fig. H.)**

Warning: Be certain to unplug the power plug with dry hands when done. If the switch is left on the motor will run with no water, potentially causing damage to the electrical circuit and causing the unit to burn up, voiding the warranty.

To Adjust The Spray Pattern:

1. The angle of the spray coming out of the Spray Wand (13A) may be adjusted by rotating the Knob (16A). This will vary the spray pattern from approximately a 0 degree narrow, high impact stream, to a 60 degree wide fan spray. **(See Figure J, next page.)**
2. The *narrow* stream works well to deep clean a concentrated area. This setting has a very high impact, providing maximum cleaning power, but can possibly damage surfaces. Use caution, as a concentrated pattern can cause damage to the surface being pressure washed. **(See Figure J.)**
3. A *wide* fan pattern distributes the impact of the water over a larger area. This pattern allows large areas to be cleaned more quickly. **(See Figure J.)**

WARNING:
NEVER adjust the knob while the trigger is not locked in the off position.

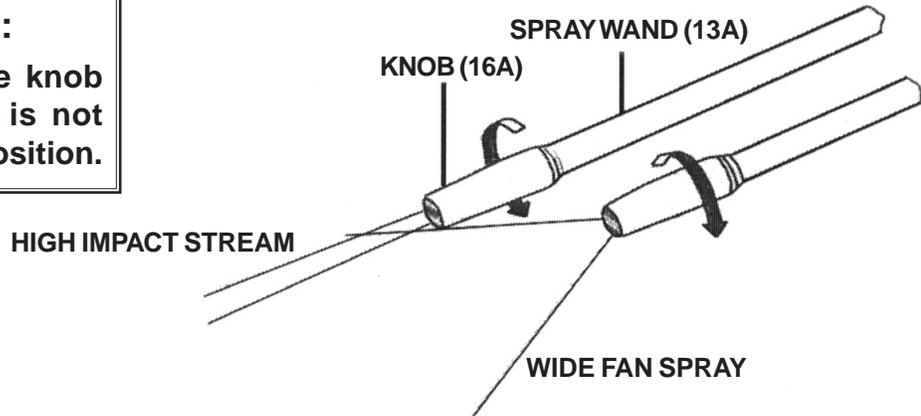


FIGURE J

To Apply A Detergent:

1. Make sure the Pressure Washer is turned off and unplugged from its electrical outlet.
2. Unscrew and remove the top of the Detergent Bottle (34A) and fill it with a mild detergent specifically designed for pressure washing use (not included). Never use caustic or abrasive detergents. Then, replace the top of the Detergent Bottle. **(See Figure F, page 12.)**
3. Remove the Spray Wand (13A), and replace it with the Detergent Bottle (34A). **(See Figure F.)**
4. Plug the Power Cord Plug into an electrical outlet, turn on the water flow, and squeeze the Trigger (23A) and allow water to flow through the Wand. Then, turn on the Pressure Washer.
5. Apply the detergent so that it thoroughly covers the cleaning surface. **NOTE:** Detergents work best when applied at low pressure. Apply from bottom to top of the object being cleaned to prevent the detergent from sliding down and streaking.
6. Allow the detergent to remain on the surface for several minutes. Lightly scrub heavily soiled areas with a soft brush or cloth. Do not allow the detergent to dry on the surface to be cleaned.
7. Turn off the Pressure Washer, and unplug its Power Cord Plug from the electrical outlet. Turn off the water supply, and discharge any remaining pressure safely.
8. Remove the Detergent Bottle (34A) from the Spray Wand Extension (11A), and replace it with the Spray Wand (13A). **(See Figure F.)**
9. Plug the Power Cord Plug into an electrical outlet, turn on the water flow, and squeeze the Trigger (23A) and allow water to flow through the Wand. Then, turn on the Pressure Washer.
10. Thoroughly rinse the detergent from the cleaning surface.
11. When finished, turn off the Pressure Washer, and unplug its Power Cord Plug from the electrical outlet.

Shutdown Precautions:

1. Make sure to rinse out the Detergent Bottle (34A).
2. When the work is complete, press the Power Switch (52) to the **OFF** position (or “I” symbol) to turn off the Motor.
3. Turn off the water supply and disconnect the power plug from the outlet.
4. Squeeze the Trigger (23A) of the Gun to depressurize the system.
5. Wipe all surfaces of the Pressure Washer with a damp, clean cloth.
6.  **CAUTION!** Always turn off the Pressure Washer’s Motor **before** turning off the unit’s water supply. Serious damage may occur to the Pump and/or the Motor if the unit is run without water.
7.  **WARNING!** Never disconnect the High Pressure Hose (55) from the machine while the system is still pressurized. To depressurize the unit, turn off the Motor. Turn off the water supply, and squeeze the Trigger (23A) several times.

How To Avoid Damaging Surfaces:

1. Adjust the Knob (16A) to a wide fan pattern before plugging in or switching on the gun. **(See Figure J.)**
2. Place the Nozzle at a 45 degree angle to the cleaning surface.
3. Keep the stream moving throughout the cleaning process.
4. **This Pressure Washer can, at different distances, remove dirt from painted surfaces, remove paint, or even chip concrete. Always use the proper distance for the surface and application. Harbor Freight Tools cannot be held responsible for any damage caused by misuse of the high pressure stream.**

INSPECTION, MAINTENANCE, AND CLEANING

1.  **WARNING!** Make sure the Power Switch of the Pressure Washer is in its “OFF” position and that the unit is unplugged from its electrical outlet, and all pressure is released, before performing any inspection, maintenance, or cleaning procedures. Point the Wash Gun in a safe direction and discharge all remaining pressure. Then, disconnect the garden hose from the unit.
2. **Before each use**, inspect the general condition of the Pressure Washer. Check for loose screws, misalignment or binding of moving parts, damaged electrical wiring, damaged High Pressure Hose, damaged accessories, plugged water

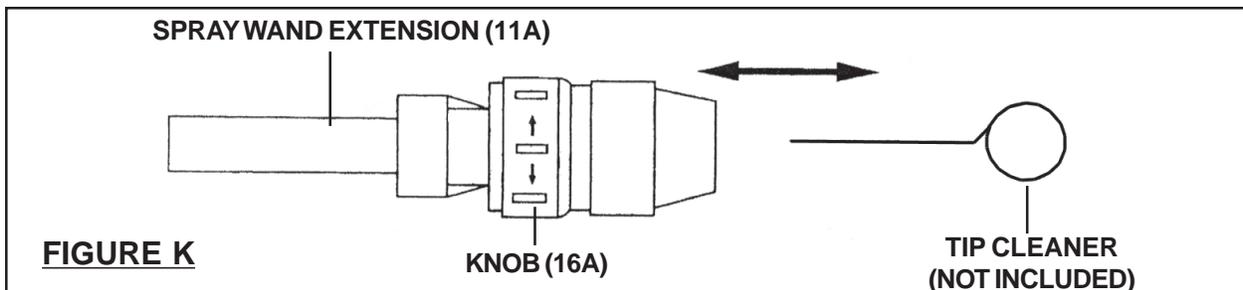
inlet/ Filter (18), and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.

Do not use damaged equipment.

3. **To clean**, remove excess water from the Pump by tipping the unit on both sides to drain any remaining water from the inlet and outlet fittings. Drain the Detergent Dispenser and flush with running water. Use only a clean cloth and mild detergent to clean the body of the Pressure Washer. Do not use solvents. Do not immerse any part of the tool in liquid. Dry off any remaining water on all parts and fittings. Then engage the Trigger Safety Lock.
4. **When storing**, always completely empty the Pressure Washer of water. Frost will damage the Pressure Washer if the unit contains water. Store the Pressure Washer indoors in a dry, frost-free room. Minerals in the water can harden inside the workings. Flush the unit with automotive antifreeze prior to long-term storage.
5. **To Clean The Nozzle:**

A clog in the Nozzle (19A) can significantly reduce the amount of water that comes out of the Pressure Washer. A clog can also cause the unit to pulsate while in use. To clean out the Nozzle:

- A. Turn off the Pressure Washer, and unplug the unit from its electrical outlet.
- B. Turn off the cold water supply.
- C. Release any remaining water pressure in the Pressure Washer by squeezing the Trigger (23A) in a safe direction. **(See Figure H, page 13.)**
- D. Remove the Spray Wand Extension (11A) from the Gun. **(See Figure F.)**
- E. Rotate the Knob (16A) to the High Impact Stream setting. **(See Figure J.)**
- F. Insert the tip of a Tip Cleaner (not included) or thin (about $\frac{1}{32}$ " dia.), rigid, wire into the end of the Nozzle hole and rotate the Tip Cleaner back and forth until the debris is dislodged. Then, remove the Tip Cleaner or wire. **(See Figure K.)**



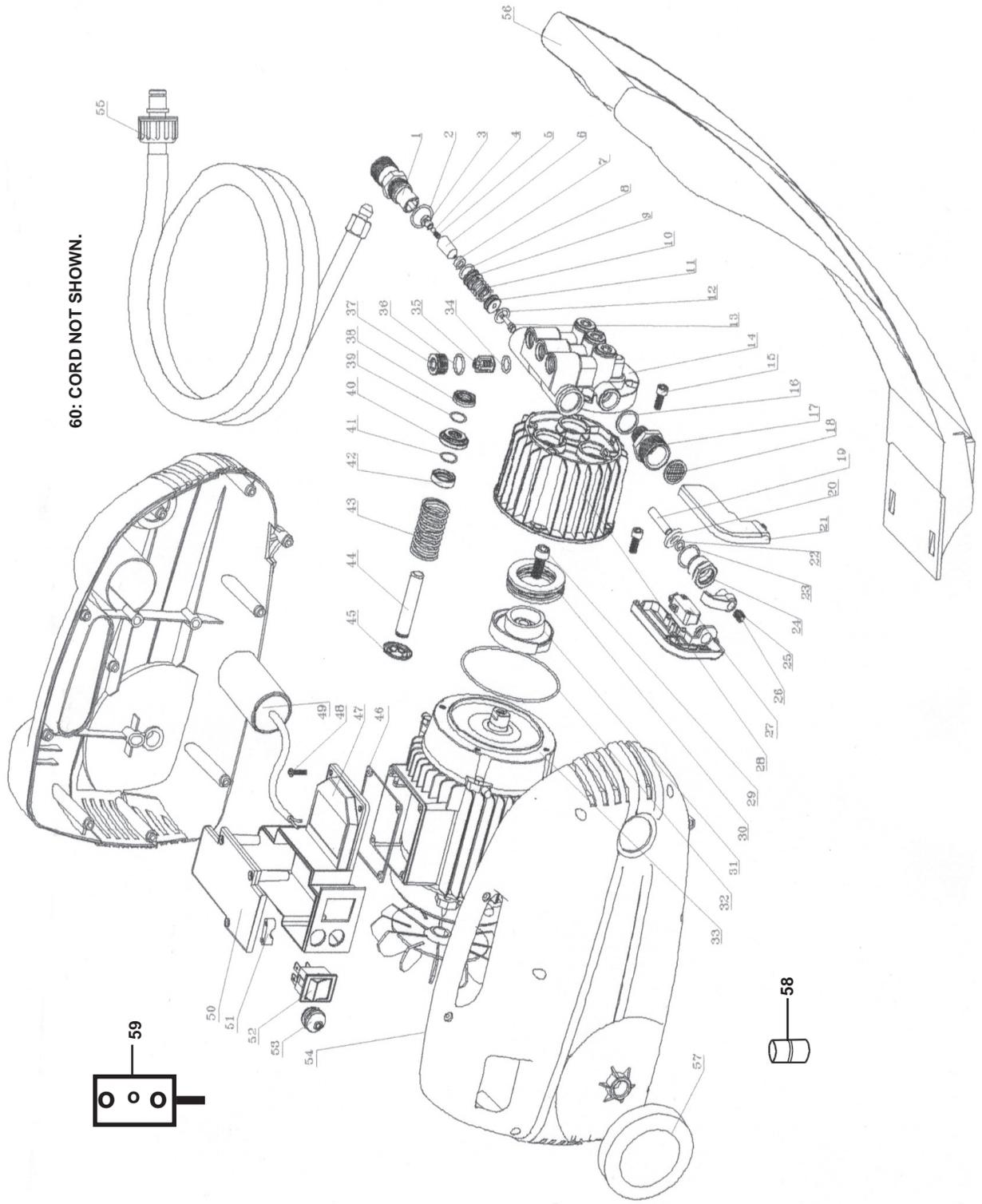
PARTS LIST

Part #	Description	Qty.	Part #	Description	Qty.
1	Outlet Port	1	31	Alloy Bearing Housing	1
2	O-Ring (22 x 2.4mm)	1	32	O-Ring (88 x 2.4mm)	1
3	Core Valve Cap	1	33	Motor	1
4	Ball	1	34	O-Ring (14 x 1.9mm)	6
5	Spring (0.8 x 4.8 x 6.5 x 10)	1	35	Inlet/Outlet Valve	6
6	Copper Valve Core	1	36	O-Ring (16 x 1.9mm)	6
7	Plastic Valve Base	1	37	Copper In/Out Valve Cap Washer	6
8	O-Ring (16 x 2.4mm)	1	38	Rubber Canvassed U-Ring	3
9	Copper Piston	1	39	O-Ring (24 x 1.9mm)	3
10	Spring (2 x 14.5 x 5 x 26)	1	40	Middle Ringer	3
11	Copper Load Release Valve Base	1	41	O-Ring (16 x 1.9mm)	3
12	O-Ring (15 x 2.4mm)	1	42	Frame Oil Seal (22 x 12 x 5mm)	3
13	Load Release Valve Core (3CR13)	1	43	Plunger Spring	3
14	Alloy Pump Head	1	44	Plunger (3CR13)	3
15	Hex Screw (M6 x 15mm)	4	45	Plunger Follower	3
16	O-Ring (18 x 2.4mm)	1	46	Rubber Ring	1
17	Inlet Port	1	47	Connection Box Spring	1
18	Filter	1	48	Screw	5
19	Switch Top Lance	1	49	Capacitor	1
20	Spring Base	1	50	Connection Box	1
21	Pressure Switch Lower Cover	1	51	Power Cord Clamp	1
22	O-Ring (10 x 1.9mm)	1	52	Power Switch	1
23	O-Ring (22 x 2.4mm)	1	53	Rubber Cover Ring	1
24	Copper Screw Connector	1	54	Shell	1
25	Hand Spike	1	55	High Pressure Hose	1
26	Spring (1 x 7.8 x 9 x 19)	1	56	Handle	1
27	Micro Switch	1	57	Wheel	2
28	Alloy Pump Body	1	58	Garden Hose Adapter	1
29	Hex Screw (M8 x 20mm)	1	59	Ground Fault Circuit Interrupter	1
30	Bearing (8107)	1	60	Cord	1

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.

ASSEMBLY DIAGRAM



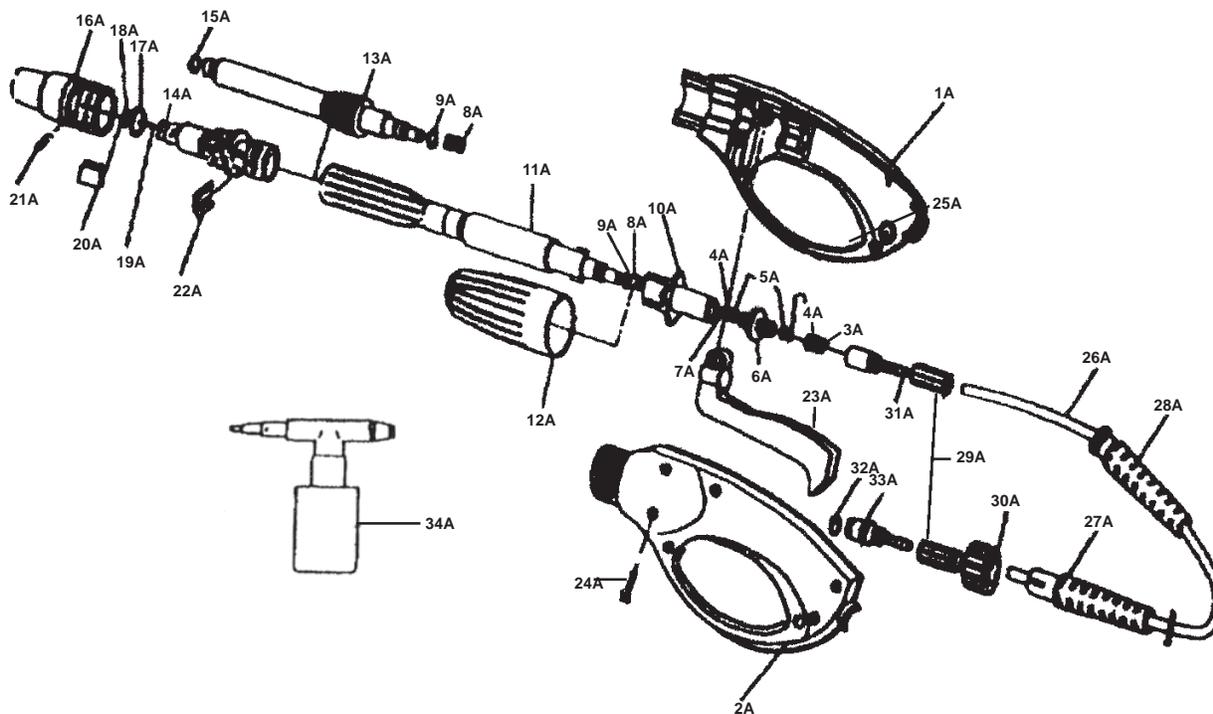
NOTE:

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

PARTS LIST - CONTINUED

Part #	Description	Qty.	Part #	Description	Qty.
1A	Casing (Right)	1	18A	O-Ring	1
2A	Casing (Left)	1	19A	Nozzle	1
3A	Spring	1	20A	Lamella	1
4A	O-Ring	2	21A	Pin	1
5A	Back Up Ring	2	22A	U-Pin	1
6A	Piston Valve	1	23A	Trigger	1
7A	O-Ring	1	24A	Self Tapping Screw	6
8A	Spring	2	25A	Safety Lock	1
9A	O-Ring	2	26A	High Pressure Hose	1
10A	Valve Body	1	27A	Jacket	1
11A	Spray Wand Extension	1	28A	Jacket	1
12A	Turnbuckle	1	29A	Connector	2
13A	Spray Wand	1	30A	Nut	1
14A	Blade Compressor	1	31A	Coupling	1
15A	O-Ring	1	32A	O-Ring	1
16A	Knob	1	33A	Coupling	1
17A	O-Ring	1	34A	Detergent Bottle	1

ASSEMBLY DIAGRAM - CONTINUED



NOTE:

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