

CENTRAL PNEUMATIC® ENGINE CLEANING SPRAY GUN

Model 93289

ASSEMBLY and OPERATING INSTRUCTIONS



Due to continuing improvements, actual product may differ slightly from the product described herein.



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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 and replacement parts, please call 1-800-444-3353.

Specifications

Air Inlet	1/4"-18 NPS
Working Air Pressure	40 PSI, Do not exceed 60 PSI
Air Consumption	7 CFM @ 40 PSI
Dimensions (with cup)	6-1/2" H x 15-1/2" L x 4-1/4" W
Cup Capacity	24 Ounces

Save This Manual

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

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lit. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, extension cords, or air hoses.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children. Store all cleaners out of children's reach.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines or air hoses.

9. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords and air hoses periodically and, if damaged, have them repaired by an authorized technician. The handle must be kept clean, dry, and free from oil and grease at all times.
10. **Disconnect air supply.** Disconnect air hose when not in use.
11. **Avoid unintentional starting.** Be sure the Trigger (12) is in the Off position when not in use and before connecting to an air supply. Do not carry any tool with your finger on the Trigger (12), whether it is connected to an air supply or not.
12. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
13. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any control does not operate properly.
14. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
15. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
16. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels if taking prescription medicine to determine if your judgement or reflexes are impaired while taking drugs. If there is any doubt, do not operate the Spray Gun.
17. **Use proper size and type extension cord.** If an extension cord is required for the air compressor, it must be of the proper size and type to supply the correct current to the air compressor without heating up. Otherwise, the extension cord could melt and catch fire, or cause electrical damage to the air compressor. Check your air compressor's manual for the appropriate size cord.
18. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.
19. **Compressed air only.** Never use combustible gas as a power source.
20. **Use proper cleaning fluids.** Only use noncorrosive, nonflammable cleaning products that are compatible with the materials of this tool, and viscous enough to flow easily through the Nozzle. Only use fluids in the dilution recommended by the manufacturer.
21. **WARNING:** The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code § 25249.5, *et seq.*)

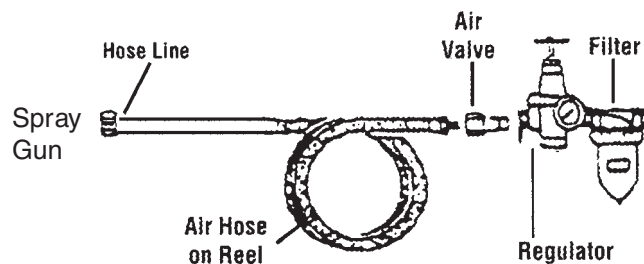
Note: Performance of the compressor (if powered by line voltage) may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

Warning: The warnings, cautions, and instructions discussed in this instruction 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.

Unpacking

When unpacking, check to make sure the product is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

Air Connection



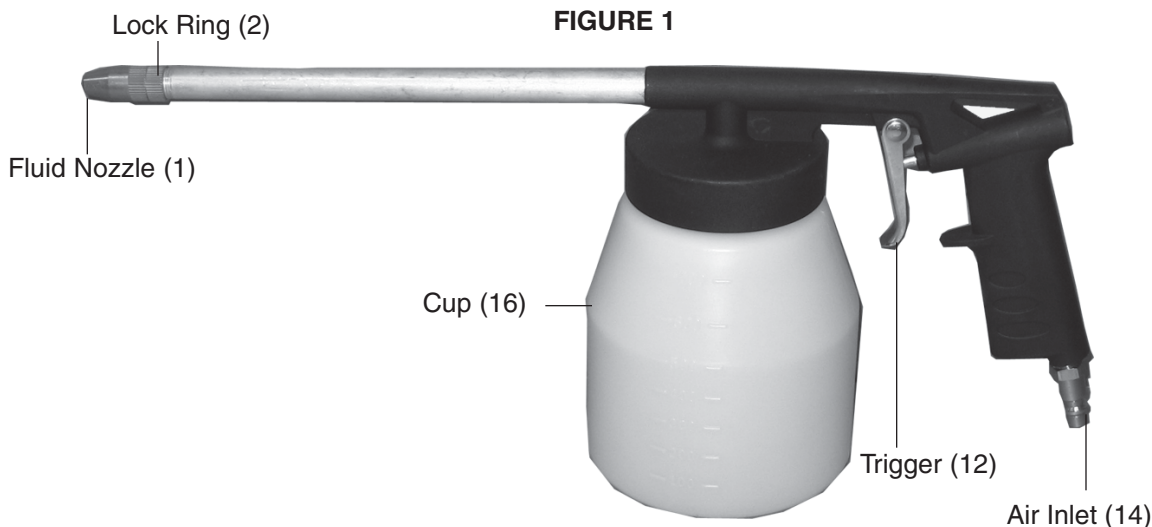
Recommended Air Line Components

For best service you should incorporate a regulator and inline filter, as shown in the diagram above. Hoses, couplers, regulators, and filters are all available at Harbor Freight Tools.

1. You will need to prepare a $\frac{1}{4}$ "-18 NPS air connector (not included) to connect to the Air Inlet (14) on the Spray Gun. First, wrap the $\frac{1}{4}$ " air connector with pipe thread seal tape before threading it into the Air Inlet (14). Connect the $\frac{3}{8}$ " ID air source hose to a quick connect coupler, and then to the Spray Gun.
2. Set the air pressure on the regulator to 40 PSI. **Do not exceed 60 PSI.**
3. Check the air connection for leaks. Disconnect from the air source.

Operation

FIGURE 1



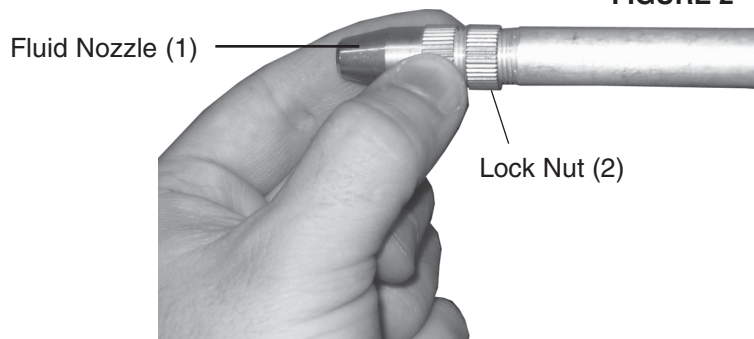
Note: Only use noncorrosive, nonflammable cleaning products that are compatible with the materials of this tool, and viscous enough to flow easily through the Nozzle.

1. Remove (un-thread) the Cup (16) from the unit and fill it with cleaning fluid (not included).
2. Replace the Cup (16) making sure it is securely tightened to the unit.
3. Connect the air source hose to the Air Inlet (14) as described in Air Connection on page 4. Set the air compressor to 40 PSI.

Note: Runoff may contain hazardous materials that may cause environmental damage if disposed of improperly. Contact your local hazardous waste authority and the cleaning agent supplier for disposal recommendations and regulations (if applicable).

4. Point the Spray Gun at the area needing cleaning and squeeze the Trigger (12). To adjust the flow rate, let go of the Trigger (12), temporarily disconnect the air supply, and unlock the Lock Ring (2). Next, to allow more liquid to flow, loosen the Fluid Nozzle (1), and to allow less liquid to flow, tighten the Fluid Nozzle (1). After adjusted to your satisfaction, tighten the Lock Ring (2) and reconnect the air supply. See **FIGURE 2** below.
5. When finished, release the Trigger (12), and disconnect from the air source hose. Point the Spray Gun into a waste bucket, and squeeze the Trigger (12) to make sure no excess air is still in the Spray Gun.

FIGURE 2



Maintenance

1. After each use, empty the Cup (16) of any remaining cleaner. Store the fluid in its original container, or dispose of it in accordance with local hazardous waste procedures. Fill the Cup (16) with warm water, set the air compressor to 20 PSI, and connect to the air source hose to the Spray Gun. Point the Spray Gun into a waste bucket and run the entire Cup of warm water through the gun. If the discharged water still smells strongly of the cleaner you used, repeat the process.
2. Wipe down the unit with a lint free cloth.

Parts List

Part No.	Description
1	Fluid Nozzle
2	Lock Ring
3	Air Tube
4	Material Tube
5	Gun Body
6	Bolt
7	O-ring
8	O-ring
9	Air Valve Rod
10	Spring
11	Air Valve Set
12	Trigger
13	Trigger Pin
14	Air Inlet
15	Suction Tube
16	Cup

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR 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.

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

This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or sprayer. The components are numbered 1 through 16:

- 1:** A small cylindrical component, possibly a nozzle or tip.
- 2:** A small circular washer or spacer.
- 3:** A long, thin cylindrical tube or shaft.
- 4:** A short cylindrical component with a textured end.
- 5:** A larger cylindrical component with a flange, likely a piston or plunger.
- 6:** A small circular component, possibly a seal or gasket.
- 7:** A small circular component, possibly a seal or gasket.
- 8:** A small circular component, possibly a seal or gasket.
- 9:** A long, thin cylindrical tube or shaft.
- 10:** A coiled spring.
- 11:** A small cylindrical component, possibly a nozzle or tip.
- 12:** A small circular component, possibly a seal or gasket.
- 13:** A small circular component, possibly a seal or gasket.
- 14:** A threaded component, possibly a nut or bolt.
- 15:** A long, thin cylindrical tube or shaft.
- 16:** A large cylindrical component with a flange and a textured surface, likely the main body or housing.

The diagram shows the relative positions and assembly sequence of these parts, with dashed lines indicating the path of assembly.