Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 20c

HOLT® INDUSTRIES

PNEUMATIC
AIR OPERATED BRAKE BLEEDER WITH AUTO REFILL KIT

57057

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.

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WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in serious injury.

Work Area

1. **Keep the work area clean and well lit.** Cluttered dark areas invite accidents.
2. The work area should have adequate drainage to reduce the possibility of a fall due to slippery surfaces.
3. Keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use this product in a damp or wet location.
4. **Keep bystanders, children, and visitors away while operating.** Distractions can cause loss of control.

Personal Safety

1.  **Always wear eye protection.** Wear ANSI-approved safety goggles.
2.  **Use safety equipment.** Wear ANSI-approved, heavy-duty, chemical resistant work gloves during set up or use.
3. **Follow all guidelines regarding materials being extracted, including MSDS instructions and EPA regulations.**
4. **Be alert for hot engine parts to avoid accidental burns.**

5. **Carbon monoxide is produced while a vehicle's engine is operating and is deadly in a closed environment.** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the work area may not be vented properly. Get fresh air immediately.
6. **Avoid accidental fire and/or explosion. Do not smoke near engine fuel and battery components.**
7. **Stay alert. Watch what you are doing and use common sense when operating. Do not use while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating may result in serious personal injury.
8. **Dress properly.** Do not wear loose clothing or jewelry. Contain long hair. Keep hair and clothing away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
9. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enable better control of the tool in unexpected situations.

Use

1. **DO NOT use to extract, siphon, or store anything other than brake fluid.**
2. **Before use read and understand all warnings, safety precautions, and instructions as outlined in the vehicle manufacturer's service manual.** Every vehicle has specific measurement values for vacuum related readings. It is beyond the scope of this manual to properly describe the correct procedure and test data for each vehicle.
3. **Prior to using the Brake Bleeder, place the vehicle's transmission in "PARK" (if automatic) or "NEUTRAL" (if manual). Then, block the tires with chocks.**
4. Do not use for more than one application. To prevent cross contamination, use a different Brake Bleeder for each purpose.
5. Do not throw, drop, or mishandle this product.
6. Industrial applications must follow OSHA requirements.
7. This product is not a toy. Do not allow children to play with or near this item.
8. Use as intended only.
9. Inspect before every use; do not use if parts are loose or damaged.
10. Obey the manual for the air compressor used to power this tool.
11. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.
12. **Disconnect the tool from the air source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool unintentionally. Turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle before leaving the work area.
13. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.
14. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
15. The warnings and cautions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

Service

1. **Have the Brake Bleeder serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the tool is maintained.
2. **Check for any condition that affects operation.** If damaged, have the Brake Bleeder serviced before using. Many accidents are caused by poorly maintained tools.
3. **Store idle tools and equipment out of reach of children and other untrained people.** Tools and equipment are dangerous in the hands of untrained users.
4. **Maintain the tool with care.** Keep this product clean. A properly maintained tool is easier to control.

Air Source

1.  **Never connect to an air source that is capable of exceeding 200 psi.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.

2. ***Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.*** Such gases are capable of explosion and serious injury to persons.

Vibration Precautions

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain tool as explained in this manual. If abnormal vibration occurs, stop immediately.

SAVE THESE INSTRUCTIONS.

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Symbology

PSI	Pounds per square inch of pressure
ft-lb	Foot-pounds of torque
CFM	Cubic Feet per Minute flow
SCFM	Cubic Feet per Minute flow at standard conditions
NPT	National pipe thread, tapered
NPS	National pipe thread, straight

	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

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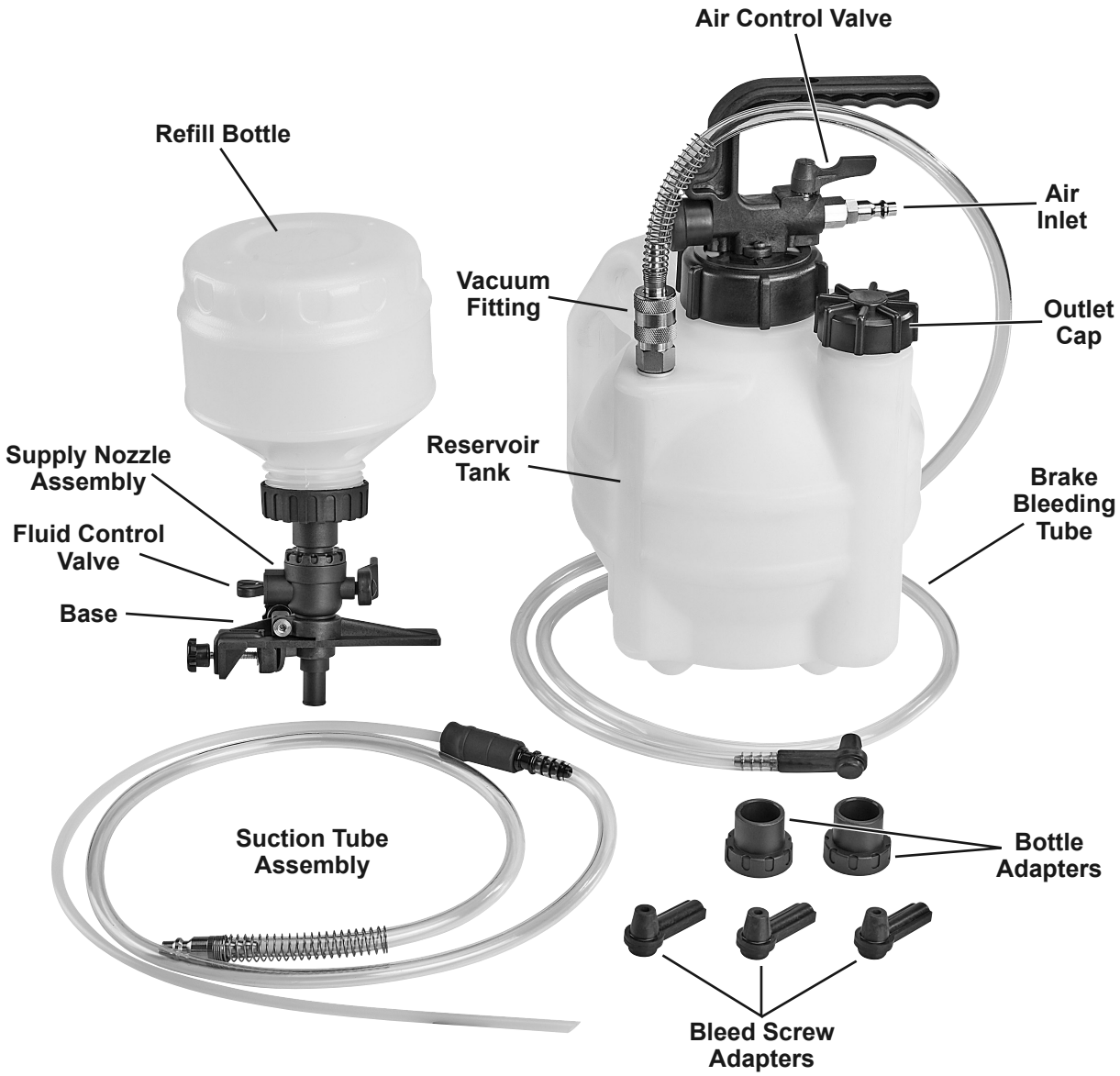
Specifications

Working Air Pressure	60–120 PSI
Air Inlet	1/4" NPT
Air Consumption	0.34 CFM @ 90 PSI
Vacuum	25 inHg @ 90 PSI
Reservoir Tank Capacity	4 Quarts
Refill Bottle Capacity	40 oz.

Components and Controls



Initial Tool Set Up/Assembly

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Note: This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

Air Supply

⚠WARNING

TO PREVENT SERIOUS INJURY FROM EXPLOSION:
Use only clean, dry, regulated, compressed air to power this tool.
Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

1. Incorporate a filter, regulator with pressure gauge, in-line shutoff valve, and quick coupler for best service, as shown on Figure A on page 8 and Figure B on page 9. **An in-line shutoff ball valve is an important safety device because it controls the air supply even if the air hose is ruptured. The shutoff valve should be a ball valve because it can be closed quickly.**
2. Attach an air hose to the compressor's air outlet. Connect the air hose to the air inlet of the tool. Other components, such as a coupler plug and quick coupler, will make operation more efficient, but are not required.

⚠WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Do not install a female quick coupler on the tool. Such a coupler contains an air valve that will allow the air tool to retain pressure and operate accidentally after the air supply is disconnected.

Note: Air flow, and therefore tool performance, can be hindered by undersized air supply components. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.

3. Turn the tool's throttle or switch to the off position; refer to Operation section for description of controls.
4. Close the in-line shutoff valve between the compressor and the tool.
5. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.
6. Adjust the air compressor's output regulator so that the air output is enough to properly power the tool, but the output will not exceed the tool's maximum air pressure at any time. Adjust the pressure gradually, while checking the air output gauge to set the right pressure range.
7. Inspect the air connections for leaks. Repair any leaks found.
8. If the tool will not be used at this time, turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle and/or turn the switch to its off position to prevent accidental operation.
9. Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and not powered.

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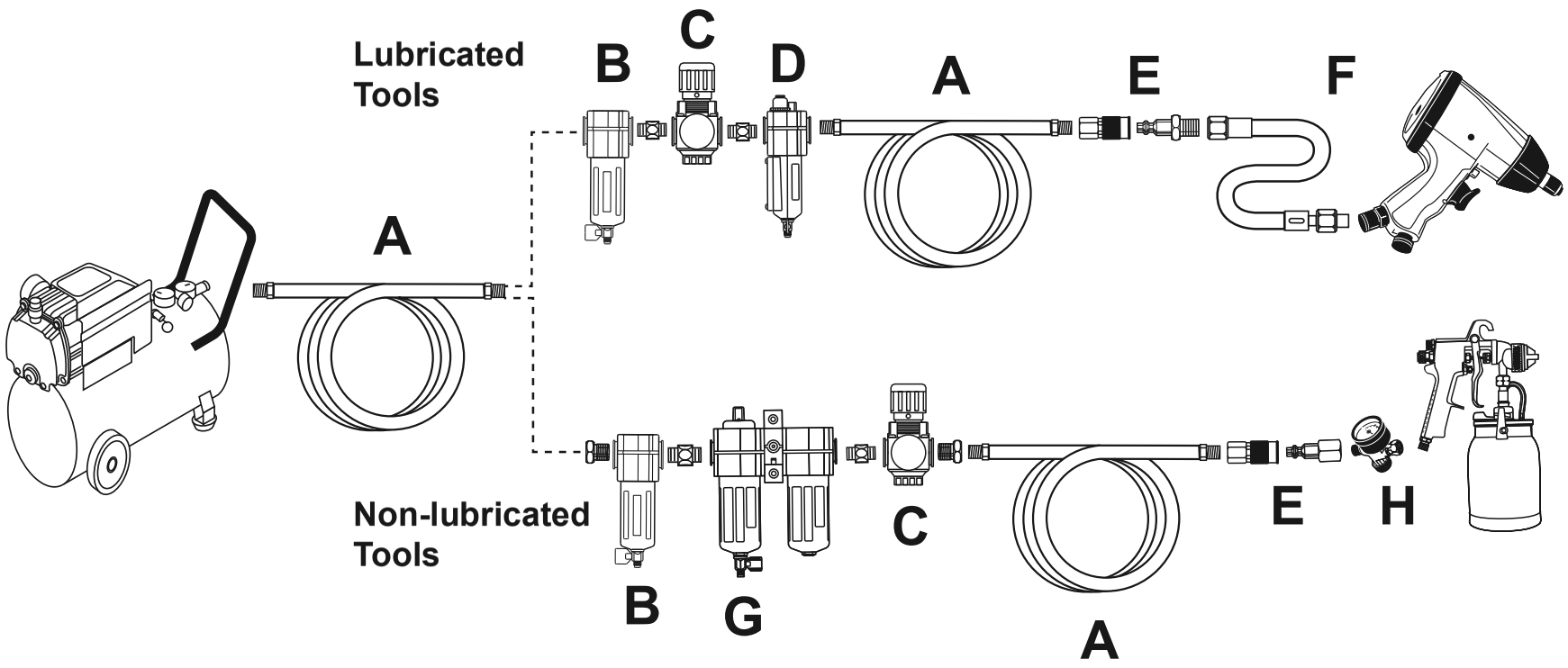
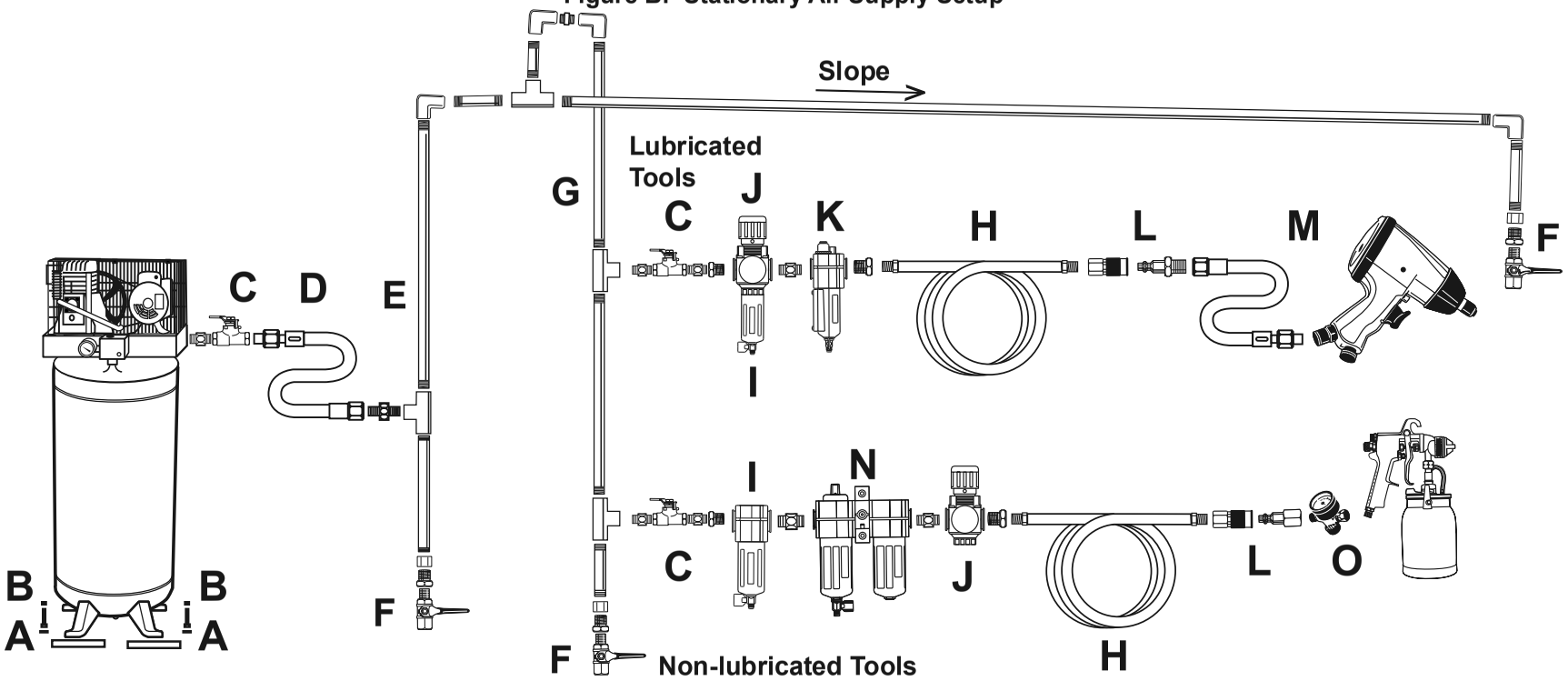
Figure A: Portable Air Supply Setup



	Description	Function
A	Air Hose	Connects air to tool
B	Filter	Prevents dirt and condensation from damaging tool or workpiece
C	Regulator	Adjusts air pressure to tool
D	Lubricator (optional)	For air tool lubrication
E	Coupler and Plug	Provides quick connection and release
F	Leader Hose (optional)	Increases coupler life
G	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging workpiece
H	Air Adjusting Valve (optional)	For fine tuning airflow at tool

Figure B: Stationary Air Supply Setup



	Description	Function
A	Vibration Pads	For noise and vibration reduction
B	Anchor Bolts	Secures air compressor in place
C	Ball Valve	Isolates sections of system for maintenance
D	Isolation Hose	For vibration reduction
E	Main Air Line - 3/4″ minimum recommended	Distributes air to branch lines
F	Ball Valve	To drain moisture from system
G	Branch Air Line -1/2″ minimum recommended	Brings air to point of use
H	Air Hose	Connects air to tool
I	Filter	Prevents dirt and condensation from damaging tool or workpiece
J	Regulator	Adjusts air pressure to tool
K	Lubricator (optional)	For air tool lubrication
L	Coupler and Plug	Provides quick connection and release
M	Leader Hose (optional)	Increases coupler life
N	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging workpiece
O	Air Adjusting Valve (optional)	For fine tuning airflow at tool

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING

TO PREVENT SERIOUS INJURY:
Do not adjust or tamper with any control or component in a way not specifically explained within this manual. Improper adjustment can result in tool failure or other serious hazards.

Inspect Brake Bleeder before use, looking for damaged, loose, and missing parts. If any problems are found, do not use unit until repaired.

Follow all guidelines regarding materials being extracted, including MSDS instructions and EPA regulations.

Note: For additional information regarding the parts listed in the following pages, refer to *Parts List and Diagram* on page 14.

General Operating Instructions

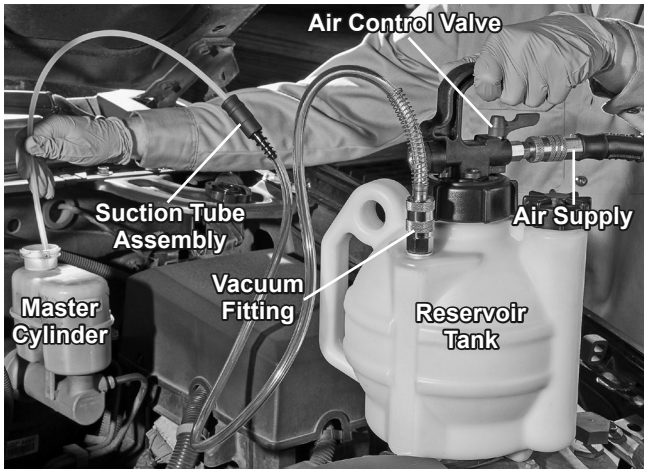
1. Before using the Brake Bleeder on a vehicle, park the vehicle on a flat, level surface.
2. Shut down the vehicle and chock its tires.
3. Disconnect the negative battery cable to prevent accidental starting of the vehicle's engine.

Draining Brake Master Cylinder

1. Before removing the master cylinder cap, clean the cap and the master cylinder around the cap. It is important to prevent foreign materials from falling into the master cylinder once the cap is removed.
2. Connect the appropriate end of the Suction Tube Assembly to the Vacuum Fitting on top of the Reservoir Tank.
3. Remove the master cylinder cap and insert the other end of the Suction Tube into the master cylinder reservoir.

WARNING! TO PREVENT SERIOUS INJURY:
Ensure that the Suction Tube Assembly does not contain any moisture, fluid or debris to prevent contaminating the brake fluid.

4. With the Air Control Valve in the closed position, attach the air supply to the Air Inlet.



5. Turn on the air supply and open the Air Control Valve. It will take several seconds for vacuum to build in the Reservoir Tank before brake fluid begins to flow.
6. As the fluid starts to flow, continue until all fluid has been removed. When finished, close the Air Control Valve and detach the air supply. Disconnect the Suction Tube Assembly from the Vacuum Fitting and remove the Tube from the master cylinder reservoir.
7. Refill the master cylinder with clean, new brake fluid. Use only the kind of brake fluid recommended by the vehicle manufacturer.
8. If the tool requires more force to accomplish the task, verify that the tool receives sufficient, unobstructed airflow (CFM) and increase the pressure (PSI) output of the regulator up to the maximum air pressure rating of this tool.

CAUTION! TO PREVENT INJURY FROM TOOL OR ACCESSORY FAILURE:
Do not exceed the tool's maximum air pressure rating.

9. Remove the Outlet Cap from the Spout on the Reservoir Tank, pour the collected fluid into an appropriate container, and dispose of in accordance with all applicable local, state and federal laws.

10. Clean external surfaces of the tool with clean, dry cloth. Clean the Reservoir Tank with compatible solvent that will not damage it to remove accumulated debris.

Dispose of solvent properly and allow Reservoir Tank to air dry completely, then store in a safe, dry, clean location out of reach of children. Do not allow solvent to sit in Reservoir Tank for an extended period.

Installing Refill Bottle

1. Remove the Refill Bottle Cap and fill the Refill Bottle with clean, new brake fluid. Use only the kind of brake fluid recommended by the vehicle manufacturer. Screw the Cap back onto the Refill Bottle.

2. Remove the master cylinder cap and clean the lip of the master cylinder reservoir and cap to prevent dirt from entering the master cylinder during use.

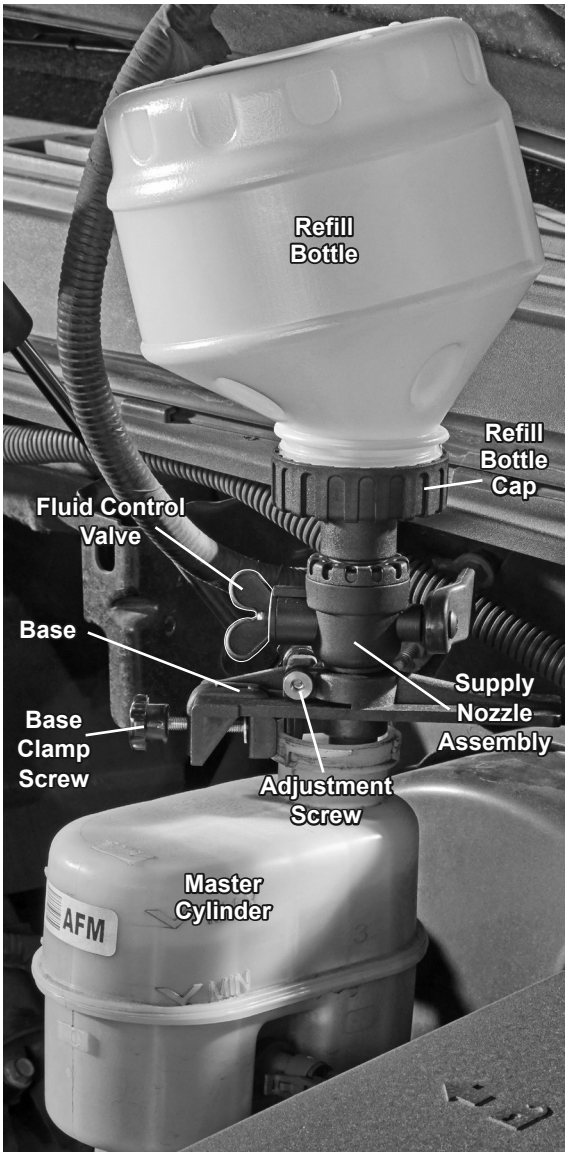
3. Clamp the Base to the lip of the master cylinder using the Base Clamp Screw.

4. Install the Refill Bottle on the Supply Nozzle Assembly. Make sure the Fluid Control Valve is in the CLOSED position so no fluid can pass through the Assembly when installing.

Note: The 12 or 32 oz Bottle Adapters can be used directly on a brake fluid bottle to use in place of the Refill Bottle.

5. Slide the Supply Nozzle Assembly with Refill Bottle attached into the Base and use the adjustment lever to align the bottom of the Supply Nozzle outlet with the maximum fill line on the master cylinder. Once in proper position tighten the Adjustment Screw to secure in place.

6. When bleeding the hydraulic system, move the Fluid Control Valve to the OPEN position. This will allow fresh brake fluid to flow from the Refill Bottle into the master cylinder to maintain fluid level at the maximum fill line during bleeding.



Bleeding Brake Lines and Wheel Cylinders

1. Determine the proper brake bleeding sequence from the vehicle service manual (i.e., right rear caliper, left rear caliper, right front caliper, left front caliper).

2. Remove the cap from the vehicle's master cylinder, and make sure the master cylinder is full of brake fluid. If not full, fill the master cylinder to capacity with clean, new brake fluid. Use only the kind of brake fluid recommended by the vehicle manufacturer.

3. Install the Refill Bottle and move the Fluid Control Valve to the OPEN position. Refer to *Installing Refill Bottle* above.

4. Clean the vehicle's brake calipers and bleed screws with brake parts cleaner (not included) to remove all dirt and debris.

5. Connect the appropriate end of the Brake Bleeding Tube to the Vacuum Fitting on top of the Reservoir Tank.

6. Attach the Bleed Screw Adapter on the other end of the Brake Bleeding Tube to the bleed screw on the vehicle caliper.

7. With the Air Control Valve in the closed position, attach the air supply to the Air Inlet.

8. Turn on the air supply and open the Air Control Valve. It will take several seconds for vacuum to build in the Reservoir Tank.

9. Using a bleed screw wrench (not included), open the bleed screw until brake fluid starts flowing into the Reservoir Tank.

Note: It is common to see bubbles in the Brake Bleeding Tube during the bleeding procedure. This is likely not from air bubbles in the brake line but from air being sucked into the Bleeding Tube from the Bleed Screw Adapter. To prevent this, apply silicone grease on the bleed screw before installing the Bleed Screw Adapter to make a proper seal.

10. The Refill Bottle will fill the master cylinder reservoir automatically as you bleed the system. Check to make sure the height of the Refill Bottle/Supply Nozzle Assembly is correct and it is refilling the master cylinder. If the Refill Bottle fluid level gets low:
    a. Close the Air Control Valve and detach the air supply.
    b. Close the Fluid Control Valve and remove the Refill Bottle/Supply Nozzle Assembly from the Base.
    c. Remove the Refill Bottle Cap and fill the Refill Bottle with clean, new brake fluid.
    d. Reattach the Supply Nozzle Assembly and Refill Bottle to the Base.
    e. Open the Fluid Control Valve, turn on the air supply and open the Air Control Valve to resume bleeding process.

11. Keep the bleed screw open until new fluid can be seen flowing through the Brake Bleeding Tube.

12. Close the bleed screw first, then disconnect the Bleed Screw Adapter from the bleed screw and close the Air Control Valve.

13. Proceed to the vehicle's next wheel, and perform the same steps as above.

14. If the tool requires more force to accomplish the task, verify that the tool receives sufficient, unobstructed airflow (CFM) and increase the pressure (PSI) output of the regulator up to the maximum air pressure rating of this tool.

CAUTION! TO PREVENT INJURY FROM TOOL OR ACCESSORY FAILURE:
Do not exceed the tool's maximum air pressure rating.

15. When finished, close the Air Control Valve, detach the air supply, and disconnect the Brake Bleeding Tube from the Vacuum Fitting.

16. Close the Fluid Control Valve and remove the Supply Nozzle Assembly, Refill Bottle and Base from the master cylinder.

17. Make sure the master cylinder is full of brake fluid up to, **but not over**, its full line. (If the master cylinder is too full, correct this before proceeding.) Then, replace the cap on the master cylinder.

18. **WARNING! TO PREVENT SERIOUS INJURY: Before driving the vehicle:**
    a. Depress the brake pedal repeatedly until the brake pedal feels firm.
    b. Check the brake calipers for leaks.
    c. Then, test the brakes thoroughly at slow speed before operating the vehicle under normal conditions.

19. Remove the Outlet Cap from the Spout on the Reservoir Tank, pour the collected fluid into an appropriate container, and dispose of in accordance with all applicable local, state and federal laws. Pour any leftover brake fluid in Refill Bottle back into original container. Do not store fluid in the Refill Bottle or the Reservoir Tank.

20. Clean external surfaces of the tool with clean, dry cloth. Clean the Reservoir Tank with compatible solvent that will not damage it to remove accumulated debris. Dispose of solvent properly and allow Reservoir Tank to air dry completely, then store in a safe, dry, clean location out of reach of children. Do not allow solvent to sit in Reservoir Tank for an extended period.

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

1. **BEFORE EACH USE,** inspect the general condition of the Brake Bleeder. Check for:
   - loose hardware or housing
   - misalignment or binding of moving parts
   - cracked or broken parts
   - any other condition that may affect its safe operation.

2. **Daily - Air Supply Maintenance:**
   Every day, maintain the air supply according to the component manufacturers' instructions. Drain the moisture filter regularly. Performing routine air supply maintenance will allow the tool to operate more safely and will also reduce wear on the tool.

3. Clean external surfaces of the tool with clean, dry cloth. Clean the Reservoir Tank with compatible solvent that will not damage it to remove accumulated debris. Dispose of solvent properly and allow Reservoir Tank to air dry completely, then store in a safe, dry, clean location out of reach of children. Do not allow solvent to sit in Reservoir Tank for an extended period.

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.

Parts List

Part	Description	Qty
1	Reservoir Tank	1
2	Cap Seal	1
3	Cap	1
4	Gasket	1
5	Reservoir Tank Cap	1
6	Screw Cap	1
7	Venturi Handle with Air Control Valve	1
8	Muffler	1
9	Air Inlet	1
10	Adapter	1
11	PVC Hose	1
12	Diesel Connector	1
13	Hose Connector	1
14	Nylon Hose	1

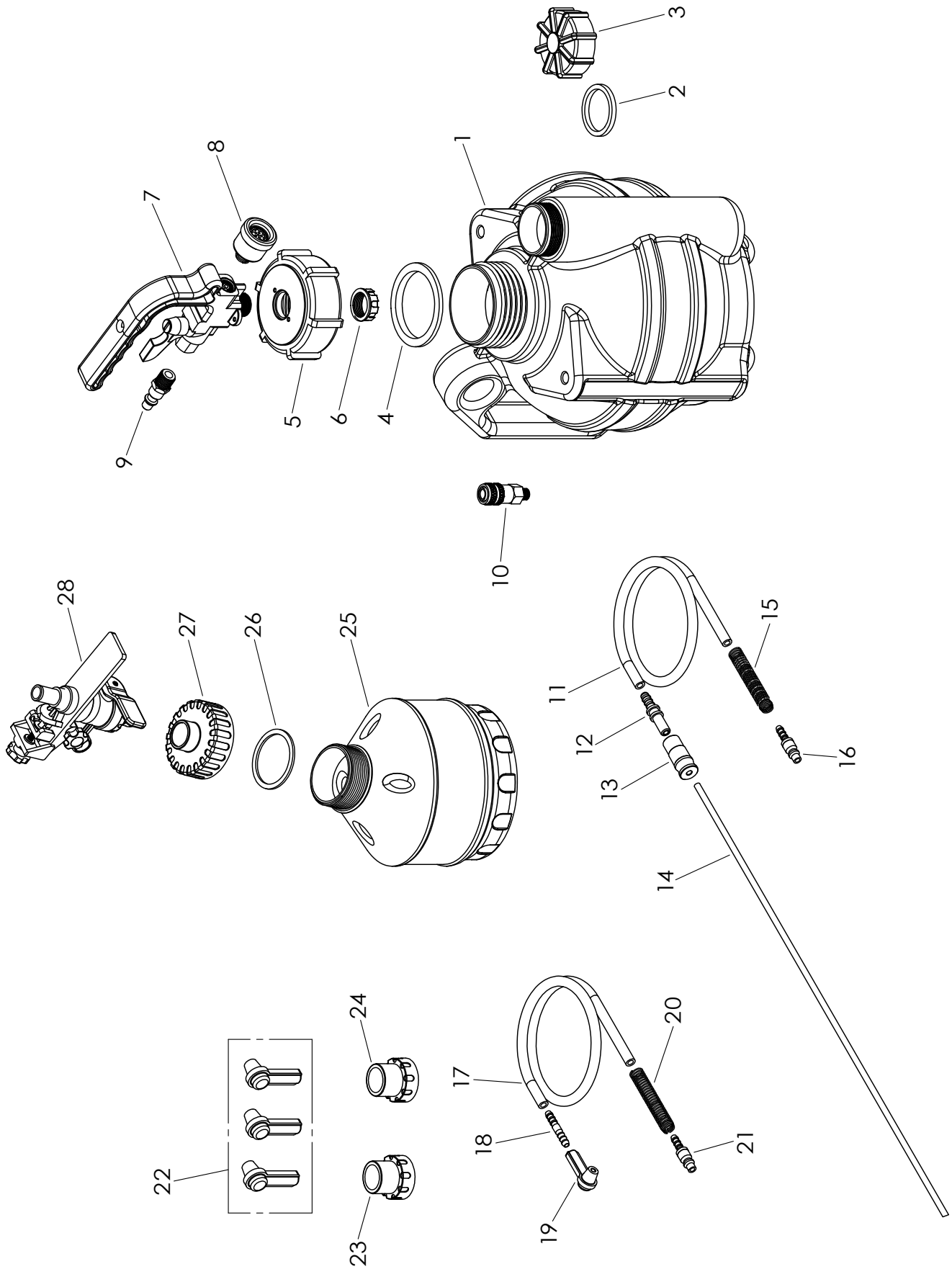
Part	Description	Qty
15	Spring	1
16	Adapter	1
17	PVC Hose	1
18	Insert	1
19	Bleed Screw Adapter	1
20	Spring	1
21	Adapter	1
22	Bleed Screw Adapter	3
23	12 oz Bottle Adapter	1
24	32 oz Bottle Adapter	1
25	Refill Bottle	1
26	Gasket	1
27	Refill Bottle Cap	1
28	Supply Nozzle Assembly	1

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

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

Assembly Diagram



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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