

CENTRAL MACHINERY

®

ELECTRIC PORTABLE PIPE THREADER

Model 95955

OPERATION INSTRUCTIONS



Diagrams within this manual may not be drawn proportionally.
Due to continuing improvements, actual product may differ slightly from the product described herein.

Distributed exclusively by Harbor Freight Tools®.

3491 Mission Oaks Blvd., Camarillo, CA 93011

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



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

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

SPECIFICATIONS

Motor	120 VAC / 60 Hz / 1606 W (start-up)/ 12 A 20 RPM @ Drive/No Load Accessible Motor Brushes
Die Sizes	1/2", 3/4", 1" & 1-1/4" dies marked with NPT and sizing (included)
Power Cord	6.2' Long, 2-Prong Plug



Save This Manual

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance, cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Write the product's serial number in the back of the manual near the assembly diagram, or write month and year of purchase if product has no number. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY RULES



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 can ignite the dust or fumes.
3. **Keep bystanders and children 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 a properly installed and grounded outlet in accordance with local 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. **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.
3. **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.
4. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
5. **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.
6. **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 can 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 can cause 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 can 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.** Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Always wear ANSI-approved safety goggles and a dust mask/respirator when using or performing maintenance on this tool.

TOOL USE AND CARE

1. **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.
2. **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. **Always unplug the tool from the electrical outlet before performing any inspection, maintenance, or cleaning procedures.**
3. **Store idle tools out of reach of children and untrained persons.** Tools are dangerous in the hands of untrained users.
4. **Maintain tools with care.** Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
5. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that can affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.

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 can create a risk of electric shock or injury.

SPECIFIC SAFETY RULES

1. **Maintain labels and nameplates on the tool.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
2. **Wear ANSI-approved safety impact eye goggles, heavy-duty work gloves and dust mask/respirator when using the Pipe Threader.** Using personal safety devices reduces the risk of injury.
3. **Maintain a safe working environment.** Make sure there is adequate surrounding workspace.

4. **Always keep the extension cord away from the moving parts on the tool.**
5. **Never leave the tool unattended when it is plugged into an electrical outlet.** Turn off the tool, and unplug it from the electrical outlet before leaving area.
6. **Always secure the pipe being threaded with the Pipe Clamp assembly (54, 55, 56).**
7. **People with pacemakers should consult their physician(s) before using this product.** Electromagnetic fields in close proximity to a heart pacemaker could cause interference to, or failure of, the pacemaker. In addition, people with pacemakers should adhere to the following:
 - Avoid operating power tools alone.
 - Don't use a power tool with the power switch locked on.
 - If powered via a power cord, be certain that the tool is properly grounded. A ground fault interrupt (GFCI) system is also a good precaution. This inexpensive device is a good safety measure because it prevents a sustained electrical shock.
 - Properly maintain and inspect all tools before use to avoid electrical shock.
8. **Direction switch must be fully engaged to the “in” or “out” position before use.**
9. **Never disable safety button.** The safety button can help prevent accidental starting.
10. **WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm.** Some examples of these chemicals are:
 - Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - Arsenic and chromium from chemically treated lumberYour risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)

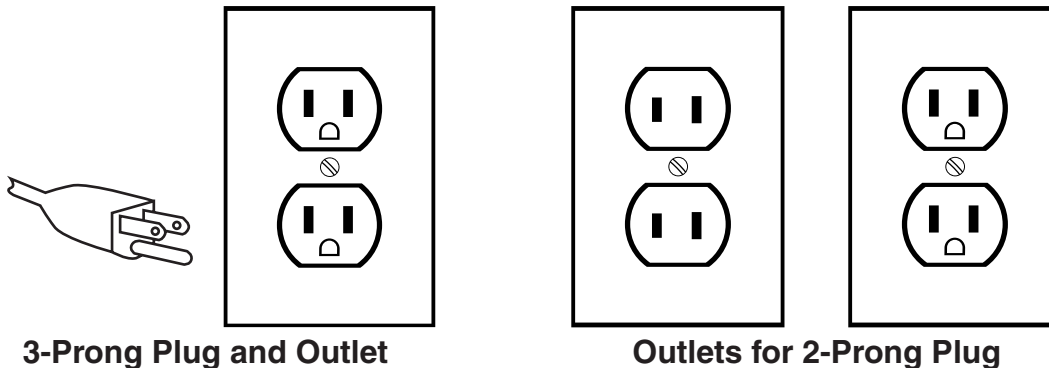
GROUNDING

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 3-Prong Plug and Outlet.)**
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 3-Prong Plug and Outlet.)**
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 following illustration. **(See 3-Prong Plug and Outlet.)**



3-Prong Plug and Outlet

Outlets for 2-Prong Plug

DOUBLE INSULATED TOOLS: TOOLS WITH TWO PRONG PLUGS

1. 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 Outlets for 2-Prong Plug.)**




2. Double insulated tools can be used in either of the 120 volt outlets shown in the preceding illustration. **(See Outlets for 2-Prong Plug.)**

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 Table A.)**
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 Table A.)**
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 Table A.)**
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 Table A.)**
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 OR 240 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	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-
TABLE A	* 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
n0 xxxx/min.	No Load Revolutions per Minute (RPM)

UNPACKING

When unpacking, check to make sure that all parts shown on Assembly Diagram 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.

OPERATION

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

1. **CAUTION!** Always make sure the Pipe Threader is disconnected from the electrical outlet prior to assembling the tool, changing accessories, or performing service on the product.
2. **Wear ANSI-approved safety impact eye goggles, heavy-duty work gloves, and dust mask/respirator when using the Pipe Threader.** Using personal safety devices reduces the risk of injury.
3. Select the appropriate Die (58, 59, 60, 61) to be used. **NOTE:** Dies are intended for use on standard schedule 40 and schedule 80 steel pipe.
4. Insert the Die into the Die Holder (25) of the Pipe Threader. The Die fits into the Die Holder only one way. Make sure the Die is secured in place before proceeding. The Die is pressure fitted so once it is inserted properly, it may require light tapping with a wooden mallet (sold separately) to remove the Die.

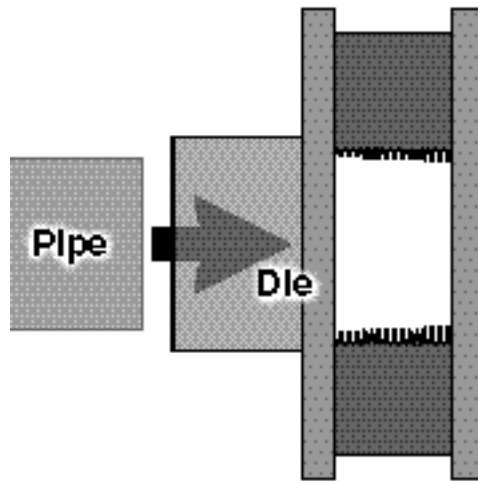


FIGURE F

5. Make sure the accessory Oil Can (57) is filled with Thread Cutting Oil (not included) and ready to be used during the threading operation.
6. Insert the pipe into the rear of the Die. Make sure the inside diameter of the Die matches the outside diameter of the pipe.
(See Figure F.)

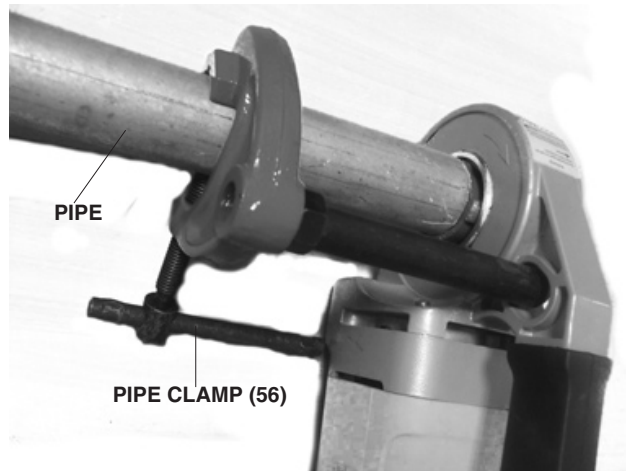


FIGURE G

7. **CAUTION!** Always use the Pipe Clamp assembly (54, 55, 56) to secure and support the pipe during the threading operation. Screw Rod (55) into Clamp (56) and secure with Nut (54). Make sure the Pipe Clamp assembly is securely clamping the pipe and that the pipe is supported while the threads are being cut. **(See Figure G.)** Be certain that the pipe has enough clearance to proceed.
8. Make sure the pipe end and threads of the Die are sufficiently oiled at all times. Otherwise, the life of the Die Blades will be shortened and the threads will be rough.
9. Located on the Safety Handle (41) is a Rotation Direction Switch (40) which determines the direction of the threading operation. Flip the Rotating Direction Switch to the **right** position for a **clockwise** rotation. **(See Figure H.)**
11. Connect the Power Cord Plug (38) into the nearest 110 volt grounded electrical outlet.



FIGURE H

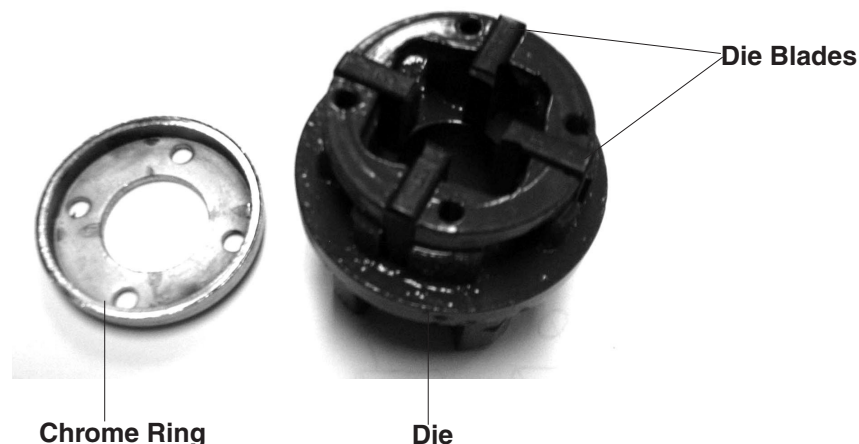
12. While holding the Handle (35), press the Trigger (39) in and squeeze the Safety Handle (41). **Pipe Threader will not engage until the Safety handle is firmly grasped.** Apply pressure until the Die engages the pipe, cutting two to three threads. **(See Figure H.)**

13. From this point, the Die will automatically be drawn over the pipe and a standard taper thread will be cut.
14. To ensure a good, clean standard taper thread, stop the Pipe Threader every few turns, reverse, oil the pipe, and re-cut the thread.
15. Stop threading when the end of the Die is flush with the end of the pipe. At this point, the correct thread length has been reached to produce the proper joint. To continue beyond this point would make a straight or running thread.
16. To stop threading, release the Power Switch to stop the Pipe Threader. Allow the Pipe Threader to completely stop. Then turn the Rotating Direction Switch to the left position for a counterclockwise rotation of the Die. Pull in and up on the Power Switch to turn on the Pipe Threader and disengage the Die from the pipe. When fully disengaged, release the Power Switch to turn off the Pipe Threader.
(See Figure H.)
17. Take care to not cause damage to the newly cut threads when removing the pipe from the Pipe Threader.
CAUTION: Freshly cut threads may be hot and have sharp edges or sharp metal turnings still attached. Clean the pipe and allow it to cool before use.
18. **IMPORTANT:** Clean any oil spills that are on the ground. At the end of each job always clean the Pipe Threader and store the tool in a clean, dry, safe location out of reach of children and unauthorized people.

INSPECTION, MAINTENANCE, AND CLEANING

1. **WARNING!** Make sure the Pipe Threader is disconnected from the electrical outlet prior to performing any inspection, maintenance, or cleaning procedures.
2. Before each use, inspect the general condition of the Pipe Threader. Check for cracked or broken parts, damaged electrical wiring, damaged Die Blades, and any other condition that may affect safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.
Do not use damaged equipment.
3. To clean: Use a mild detergent or mild solvent to clean the exterior of the Pipe Threader and the Dies. Do not immerse the Pipe Threader in liquid.
4. When not in use, store the Pipe Threader in a clean, dry, safe location out of reach of children and other unauthorized people.
5. **CAUTION!** All maintenance, service, or repairs not mentioned in this manual must only be performed by a qualified service technician.

6. To replace the Motor Carbon Brushes: It may become necessary to replace or clean the two Carbon Brushes (47) when the Motor performance decreases or stops working completely. **The Carbon Brushes are located on each side of the Motor Housing (50).** To replace the Carbon Brushes:
- Remove the two Brush Holder Covers (46).
 - Remove the two Carbon Brushes from the two Brush Holders (48). If either Carbon Brush is worn down more than halfway, replace *both* Carbon Brushes. If the Carbon Brushes are just dirty, they can be cleaned by rubbing them with a pencil eraser. When reusing Carbon Brushes, reinstall the brushes in the original orientation to prevent excess wear.
 - Make sure the carbon portion of the Carbon Brushes contact the Motor's Rotor (4), the springs face away from the Motor and the springs operate freely.
 - After replacement or cleaning, replace the two Brush Holder Covers. **NOTE:** New Carbon Brushes tend to arc or spark when first used until they wear and conform to the Motor's Rotor.
7. To replace the Die Blades: Worn Die Blades can result in poor thread quality. When replacing Die Blades, verify that the size of the new Die Blades correspond to the size of the Die (1/2", 3/4", 1", or 1-1/4"). To replace the Die Blades:
- Remove the four Screws on the Die.
 - Remove the Chrome Ring from the Die.
 - Remove all four Die Blades.
 - Insert four new Die Blades into the Die. **NOTE:** When inserting the Die Blades, make sure the cutting edges of the Die Blades face inward and that the number on each Die Blade is at the top and in sequence.
 - Once the Die Blades are properly inserted, replace the Chrome Ring and four Screws.



PARTS LIST

No.	Part name	No.	Part name	No.	Part name
1	Baffle	22	ST5 X 65 Cross Screw	45	Reinforcing Ring Gasket
2	Bearing Bushing	23	Worm Speed Reducer Gearbox	46	Brush Holder Cover
3	629 Bearing	24	Ø55 Steel Wire Shield	47	Carbon Brush
4	Rotor	25	Die Holder	48	Brush Holder
5	Ø28 Circlip	26	Die Holder Cover	49	Label
6	6001 Bearing 53 Soft Cover	27	Bearing Bushing	50	Housing
7	Ø5 Spring Washer	28	Ø100 Seal Ring	51	Stator
8	M5 X22 Cross Screw	29	Ø112 Seal Ring	52	ST4X85 Cross Screw
9	Ø5 Flat Washer	30	Ø112 Snap Ring	53	Cable Protector
10	Divider	31	Soft Cover	54	Clamp Assembly Nut
11	M5X14 Cross Sunk Bolt	32	Soft Grip	55	Clamp Assembly Rod
12	ST5 X 40 Cross Screw	33	ST4 X18 Cross Screw	56	Clamp Assembly Clamp
13	Closing	34	ST4 X25 Cross Screw	57	Oil Can
14	Big Gear	35	Right Handle	58	1-1/4" Die
15	S1102 Plane Bearing	36	ST4 X14 Cross Screw	58A	1-1/4" Die Blades
16	RNA4902A Needle Bearing	37	Cable Retainer	59	1/2" Die
17	Bushing	38	Cable Plug	59A	1/2" Die Blades
18	Key	39	On/Off Trigger	60	3/4" Die
19	Worm Gear	40	Rotating Direction Switch	60A	3/4" Die Blades
20	RNA4900A Needle Bearing	41	Safety Handle	61	1" Die
21	Ø65 Seal Ring	43	Coil Ring	61A	1" Die Blades
		44	Copper Spring		

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.

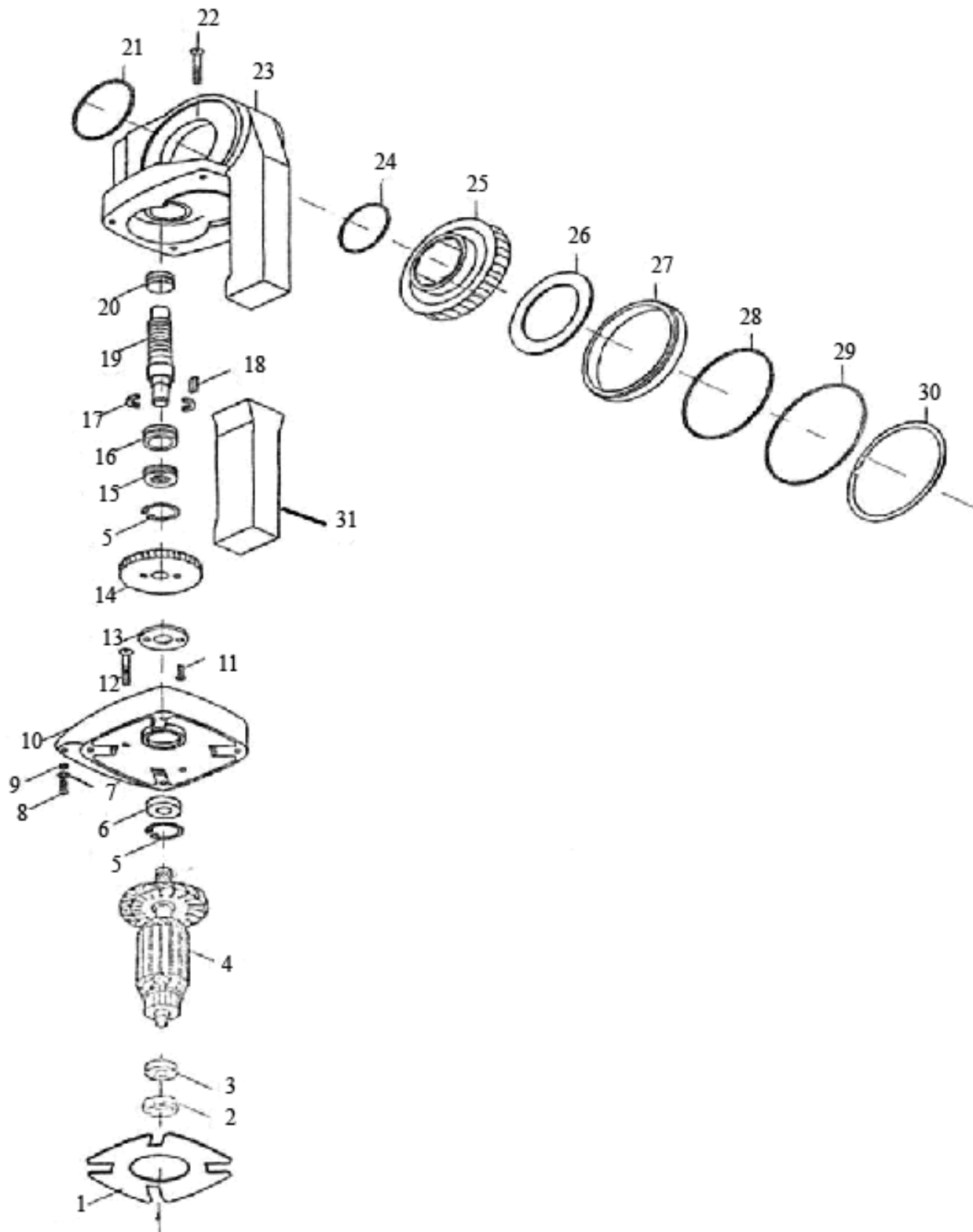
Record Product's Serial Number Here: _____

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

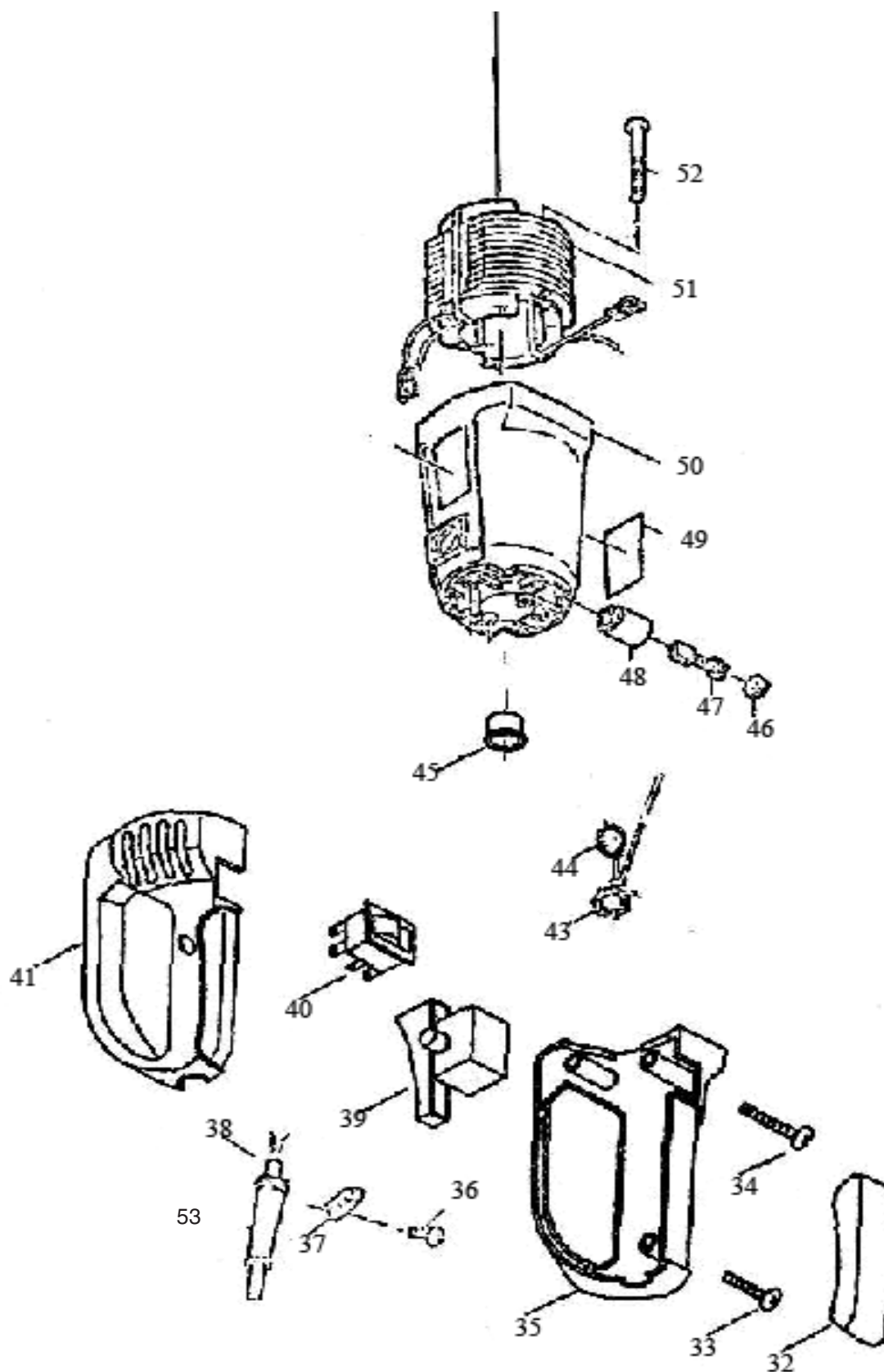
Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

REV 08b, 09e

ASSEMBLY DIAGRAM



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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