

**WARNING: HOLD ON TO POWER DRIVE HANDLE FIRMLY TO RESIST INITIAL TORQUE WHILE BACKING OFF DROPHEAD.**

7. After completion of the thread, and after the motor has stopped, set the reverse switch in the reverse position ("R") and start the motor again to back the die head off the pipe.

8. When dies clear the end of the pipe, grip handle on top of the power drive and remove the power drive from the pipe. Release the support vise and remove it as well.

**MAINTENANCE INSTRUCTIONS**

**WARNING: ALWAYS UNPLUG POWER CORD BEFORE SERVICING POWER DRIVE.**

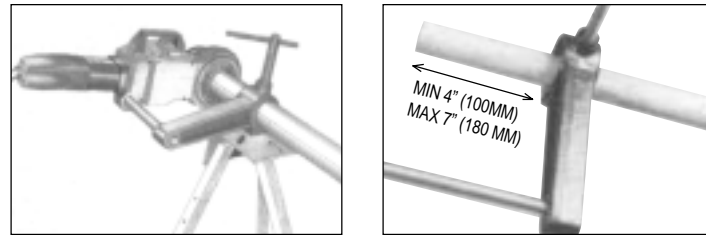
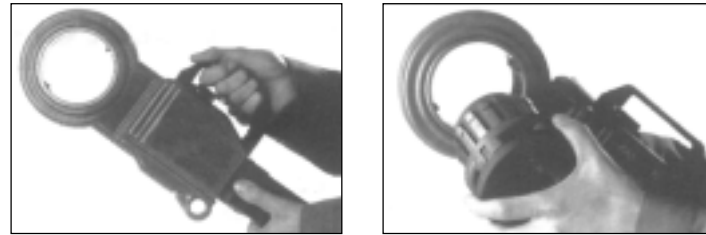
**NOTE:** If any maintenance is required other than brush replacement, take power drive to an authorized REED warranty repair center or return to factory.

**Motor Brush Replacement**

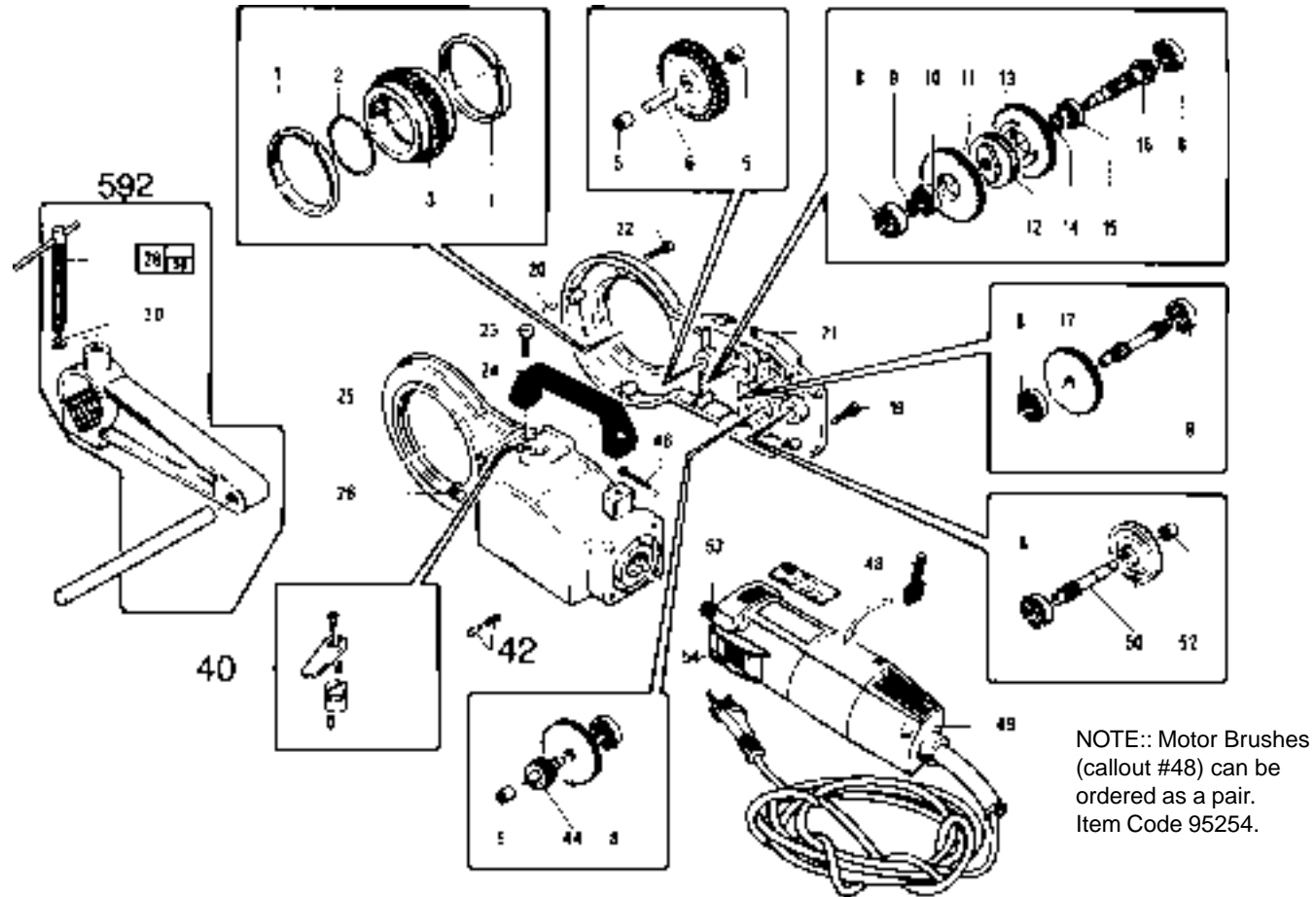
Check motor brushes every 6 months or 250 working hours and replace the brushes when worn to less than 1/4" (5 mm). When checking the brushes for wear, also clean the brush holders with a clean rag.

**Lubrication**

Gearing has been greased at the factory and does not require additional grease. It is best to blow dust off the machine after work is over.



**NOTE:** Power units for threading power drives are warranted for a period of one year from date of purchase. Contact Reed for details on repair/replacement.



**NOTE:** Motor Brushes (callout #48) can be ordered as a pair. Item Code 95254.



PIPE TOOLS & VISES  
SINCE 1896



Catalog No. - 701PD  
Item Code #05250

# 701PD Power Drive Operator's Manual

The REED 701PD Power Drive is a portable, electric-motor-driven, heavy-duty power drive which provides power for threading pipe and conduit up to 2" in diameter.

- Automate the pipe threading process
- Light-weight
- 701V Safety Vise (#05255) included
- New technology
- R12+ Dropheads available in sizes from 1/2" to 2", order dropheads separately



**WARNING!**

**READ AND UNDERSTAND ALL INSTRUCTIONS. FAILURE TO FOLLOW ALL INSTRUCTION LISTED INSIDE MAY RESULT IN ELECTRIC SHOCK, FIRE, AND/OR SERIOUS PERSONAL INJURY.**

**SAVE THESE INSTRUCTIONS!**

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## WORK AREA SAFETY

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 that may ignite the dust or fumes.
3. Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.
4. Do not let visitors contact tool or extension cord. Such preventive measures reduce the risk of injury.

## ELECTRICAL SAFETY

1. Electrical tools must be plugged into properly installed outlets. Check with a qualified electrician if you are in doubt as to whether the outlet is properly installed.
2. Avoid contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is increased risk of an electrical shock if your body is grounded.
3. Don't expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electrical shock.
4. Do not abuse cord. Never use the cord to carry the tool or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electrical shock.
5. When operating a power tool outside, use an extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electrical shock.
6. Connect the tool to an AC power supply that matches the name plate specifications. Incorrect voltage supply can cause electrical shock or burns.
7. Use proper extension cords (see chart). Insufficient conductor size will cause excessive voltage drop, loss of power and overheating.

Minimum Wire Gauge for Cord Set			
Nameplate Amps	TOTAL LENGTH (IN FEET)		
	0 - 25	26 - 50	51 - 100
0 - 6	18 AWG	16 AWG	16 AWG
6 - 10	18 AWG	16 AWG	14 AWG
10 - 12	16 AWG	16 AWG	14 AWG
12 - 16	14 AWG	12 AWG	NOT RECOMMENDED

## PERSONAL SAFETY

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medications. 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 switch is OFF before plugging in. Carrying tools with your finger on the switch or plugging tools in that have the switch ON invites accidents.
4. Remove adjusting keys or switches before turning the tool ON. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

5. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the 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.

## TOOL USE AND CARE

1. Use clamp, vise, or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
2. Do not force 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.
3. Do not use any tool if switch does not turn it ON or OFF. Any tool that cannot be controlled by the switch is dangerous and must be repaired.
4. Disconnect the 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 the reach of children and other untrained persons. Tools are dangerous in the hands of untrained persons.
6. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
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 of your model. Accessories that are suitable for one tool may become hazardous when used on another tool.
9. Inspect tool and extension cords periodically and replace if damaged. Damaged cords increase the risk of electrical shock.
10. Keep handles dry and clean, free from oil and grease. Clean handles allow better control of the tool.

## SERVICE

1. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified repair personnel could result in injury.
2. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electrical shock or injury.
3. Follow instructions for lubricating and changing accessories. Accidents are caused by poorly maintained tools.

## SPECIFIC SAFETY INFORMATION

The Operator's Manual contains specific safety information and instructions for your protection against serious injuries including:

- Loss of fingers, hands, arms or other body parts if clothing or gloves get caught in moving parts.
- Electrical shock or burns from contact with wires, motor or other power drive parts.

- Impact injuries, including broken bones if machine tips over or workpiece falls.
- Eye injuries, including being blinded by the workpiece or workpiece chips.

## Read and follow the safety labels on the machine.

Know the location and functions of all controls before using the tool.

## Switch Safety

The MOMENTARY CONTACT SWITCH is for your safety. It lets you shut off the motor by removing your finger. If clothing should become caught in the tool, it will continue to wind up. Because this tool has high torque, the clothing itself can bind around your arm or other body parts with enough force to crush or break bones.

 **WARNING**



**WARNING: CLOTHING/GLOVES CAN BE CAUGHT IN MOVING PARTS. FINGERS, HANDS, ARMS OR OTHER BODY PARTS CAN BE CRUSHED OR BROKEN.**

- Do not wear gloves.
- Keep sleeves and jackets buttoned.
- Keep switch in working order.
- Use support vise when threading.
- Do not carry plugged-in tool with finger on switch.

## TOOL SAFETY

1. The POWER DRIVE is made to thread pipe. Follow instructions in this Operator's Manual on tool use. Other uses may increase the risk of injury.
2. ALWAYS secure POWER DRIVE using the provided 701V support vise (#05255). Do not use this POWER DRIVE without the provided support vise. The support vise resists torque developed during threading and prevents losing control of the tool.
3. Do not use dull or damaged dies. Sharp cutting tools are less likely to bind and tool is easier to control
4. Do not use if MOMENTARY CONTACT SWITCH is broken. The purpose of the switch is to prevent injuries.

## SAVE THESE INSTRUCTIONS!

### DESCRIPTION, SPECIFICATIONS AND EQUIPMENT

#### Description

The REED 701PD is a portable, electric-motor-driven, heavy-duty power drive which provides power for threading pipe and conduit up to 2" in diameter. The 701PD is NOT designed to turn geared threaders, tapping machines, or other equipment.

## SPECIFICATIONS/ STANDARD EQUIPMENT

### Threading capacity

Pipe and Conduit: 1/8" through 2" right hand threads only.

### Motor, Gears, Speed

- 115 Volts, AC (50 - 60 Hz), 750 Watt, double insulated.
- Momentary contact switch, spring return to OFF position.
- Mechanical forward/reverse switch; 25 RPM to thread and 59 RPM reverse.
- Spur gear reduction, bearing mounted shafts, gears packed in grease.
- Spring-loaded adapter pawls.
- Gear case is cast aluminum. Motor housing and handle are plastic.
- Vise is ductile iron and steel.
- Machine weight: 15.5 lbs (7 kg)
- Vise weight: 7.4 lbs (3.4 kg)
- The 701V support vise (standard) is necessary for operation to absorb power drive torque.

## OPERATING INSTRUCTIONS

For threading with drophead die heads only.

**WARNING: OPERATOR SHOULD BE THOROUGHLY FAMILIAR WITH SAFETY INFORMATION BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.**

1. Push die heads, small end first, squarely into power drive opening until spring-loaded adapter pawls catch securely.

**NOTE:** Die head must be installed from the gear shifter side only.

2. Secure pipe in portable TriStand vise or bench vise, if available.

**WARNING: WHEN THREADING ANY SIZE PIPE, THE SUPPLIED 701V SUPPORT VISE SHOULD ALWAYS BE USED AND SECURELY LOCKED ON PIPE BECAUSE OF TORQUE DEVELOPED DURING THREADING.**

3. Ensure at least 6" (150 mm) of exposed pipe end. Position 701V support vise between 4" (100 mm) and 7" (180 mm) from the end of the pipe so the end of the guide bar is 1" (25 mm) to 4" (100 mm) beyond the end of the pipe. Clamp the support vise securely onto the pipe. When threading 1 1/2" and 2" pipe, it is best to place the vise just 4" from the end of the pipe for firmest control of higher torque.

4. Slide the machine onto the guide bar and keep sliding to place the die head over the end of the pipe. Make sure that the reverse switch is in threading position (VVV). For right hand threads, die head should rotate clockwise (looking at the face of the die head).

**NOTE:** During threading, apply plenty of REED Threadguard cutting oil to dies.

5. Simultaneously actuate switch button and exert pressure against die head with palm of free hand to make sure thread is started.

6. Keep switch button depressed until end of pipe is even with edge of chaser, then release switch button.