



CONCRETE VIBRATORS

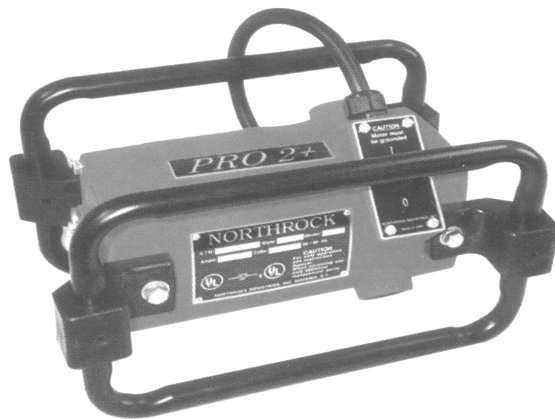
INSTRUCTION MANUAL

SAFETY, ASSEMBLY, AND MAINTENANCE INSTRUCTIONS FOR MODELS:

PRO 1.5+

PRO 2+

PRO 3+



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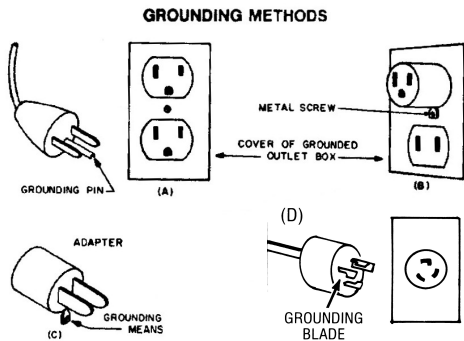
WARNING

When using concrete vibrators as with any electric tool basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

GROUNDING INSTRUCTIONS

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three conductor cord and three prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal. The plug supplied on model Pro 1.5+ and Pro 2+ look like that shown in sketch (A). An adapter is available for connecting sketch (A) type plugs to two prong receptacles. See sketch (B) and (C). The green colored rigid ear, lug or the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. No adapter is available to fit model Pro 3+ plug (D).



EXTENSION CORDS

Use only three conductor cords that have three prong grounding type plugs and three pole receptacles that accept the tools plug. Use only extension cords intended for outdoor use, and so marked. For outdoor use extension cords shall be marked with the suffix W-A following the cord type designation, for example SOW-A indicates it is acceptable for outdoor use. Use proper extension cords rated to the tool as shown on the following chart.

Extension cord AWG sizes for 120V motors:

AMPS	0-25'	26-50'	51-100'	101-150'
12-16	14	12	not recommended	
16 - 20	12	10	not recommended	

Always use an extension cord heavy enough to carry the current the tool will draw, as undersized cords will cause a drop in line voltage resulting in loss of power and overheating. Inspect all extension cords making sure they are in good condition before using, repair or replace damaged extension cords. Extension cords are available from the factory, contact your authorized service representative for details.

GENERAL SAFETY PROCEDURES

- Keep work area clean. Cluttered areas invite injury.
- Consider work area environment. Don't expose power tool to rain. Don't use POWER tools in a damp or wet location. Keep area well lit. Do not use in presence of flammable liquids or gasses.
- Guard against electric shock. Prevent body contact with grounded surfaces like metal pipes.
- Keep children away. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- Store tools when not in use in a dry, secure area out of the reach of children.
- Don't force tools, the job will be done better and safer by not exceeding the recommended max. vibrator head for the motor.
- Use the right tool, don't force a small tool to do a job meant for larger one.
- Do not use the tool for any purpose for which it is not intended. For example do not use the vibrator to drive posts in to the ground.
- Dress properly, do not wear loose clothing or jewelry. They can get caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- Wear safety glasses to protect against splashing concrete, and a dust mask if operation is dusty.
- Don't abuse electric cord, never carry the tool by the cord or yank it to disconnect it from the receptacle. Keep the cord from heat, oil, and sharp edges.
- Don't overreach, keep proper footing and balance at all times.
- Maintain tools by following instructions on cleaning and lubricating. Inspect tool cords regularly, if damaged have repaired by authorized service facility. Inspect extension cords and replace if damaged. Keep handles dry, clean, and free of oil and grease.
- Disconnect power cord when not in use, before servicing and when changing flexible shafts and heads.
- Avoid unintentional starting. Don't carry tool with your finger on the switch, be sure the switch is off before plugging tool in.
- Stay alert, be aware of what you are doing and others around you. Do not operate the tool when you are tired.
- Check damaged parts before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

SAVE THESE INSTRUCTIONS

Northrock flexible shaft vibrators are built to the highest standards of both quality and function. When properly assembled and maintained you will receive many hundred hours of service from these units. Please take a few minutes to read the assembly, maintenance, and safety instructions before attempting to operate the vibrator.

Assembly Instructions:

! Be sure unit is unplugged and switch is in off position before proceeding.

- 1- Insert inner flexible core to motor adapter and then screw outer casing on to motor. Tighten securely using wrench flats on motor and a pipe wrench on the metal part of the flexible casing.
- 2- Apply adhesive sealant to threads at the vibrator head end to prevent water from entering and to lock the head on. Secure head to shaft using wrench flats provided on the head and a pipe wrench on the metal part of the flexible casing.

Note: The unit is now ready for operation, but with a new flexible shaft it will take a few minutes for the grease to run itself in. For this short period it is normal for the flexible shaft to rattle, and the motor speed to be somewhat slower. (3-5 minutes)

Maintenance Instructions:

Motor:

- keep housing and air filter clean to allow for proper cooling
- check brushes, switch boot, and electric cord for wear and replace when worn
- motor bearings require no additional lubrication, replace when worn

Shafts:

- inspect inner cores for lubrication after approx. 50 hours of operation as follows: remove core on to a clean surface free of dirt and grit, inspect core for dry areas, if lubrication is required wipe core with cloth, reinsert core into casing applying approx. 1/16" thick coating of high quality lithium grease. (available in 1lb cans from the factory) Do not over grease the flexible shaft as this will cause excess drag on the motor, and the shaft to get hot.

Heads:

- heads are sealed at the factory since it is extremely important to keep contaminants out, therefore they require no field maintenance