

# INSTRUCTION MANUAL



## BuffPro<sup>®</sup> Model No. JF180 Polisher

### Definitions: Safety Guidelines



- ⚠ DANGER:** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- ⚠ WARNING:** indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.
- ⚠ CAUTION:** indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.

### GENERAL SAFETY RULES

- ⚠ WARNING:** Read all instructions. Failure to follow all instructions listed may result in electric shock fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.
  - ⚠ WARNING:** To reduce the risk of injury, user must read instruction manual.
  - ⚠ WARNING:** ALWAYS WEAR CERTIFIED SAFETY GLASSES that conform to ANSI Z87.1 (CAN/CSA Z94.3). Everyday glasses are NOT safety glasses.
  - ⚠ WARNING:** ALWAYS WEAR PROPER PERSONAL HEARING PROTECTION that conform to ANSI S12.6 (S3.19). Under some conditions and duration of use, noise from this product may contribute to hearing loss.
  - ⚠ WARNING:** AVOID PROLONGED CONTACT WITH DUST from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Some dusts created by the processes contains chemicals know to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals include but are not limited too:
    - lead from lead-based paint
    - crystalline silica from bricks and cement and other masonry products
    - arsenic and chromium from chemically-treated lumber (CCA).
- Your 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.
- ⚠ WARNING:** ALWAYS USE NIOSH/OSHA/MSHA RESPIRATORY PROTECTION appropriate for dust exposure. Use of this power tool can generate and/or distribute dust, which may cause serious and permanent respiratory or other injury. Direct particles away from face and body.

SAVE THESE INSTRUCTIONS

**SYMBOL DEFINITIONS:** This Instruction Manual and the nameplate on your power tool may include the following symbols:

- |                               |                                   |                                 |   |
|-------------------------------|-----------------------------------|---------------------------------|---|
| V..... volts                  | A..... amperes                    | min.....minutes                 |  ..... Safety alert symbol   |
| Hz..... hertz                 | W..... watts                      | /min.....revolutions per minute |  ..... Class 1 Construction |
| a.c. .... alternating current | n <sub>0</sub> .....no-load speed | IPXX..... IP Symbol             |   |

**1) WORK AREA SAFETY**

- a) **Keep work area clean and well lit.** *Clutter or dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

**2) ELECTRICAL SAFETY**

- a) **Power tool plugs must match the outlet. NEVER MODIFY THE PLUG IN ANY WAY.** Do not use any adapter plugs with earthed (grounded) power tools. *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Grounded tools must be plugged into an outlet properly installed and grounded with all local codes and ordinances. NEVER CUT OR REMOVE THE GROUND PRONG FROM THE PLUG NOR MODIFY IT IN ANY WAY.** Do not use with any adaptor plugs. *Grounding provides a low resistance path for current flow away from the user in the adverse event of a power tool electrical malfunction.*
- c) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- d) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- e) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep away from heat, oil, sharp edges or moving parts. *Damaged or entangled cords increase the risk of electric shock.*
- f) **When operating a power tool outdoors, use and extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock. Cords that are marked with "W-A" ("W" in Canada) are acceptable for outdoor use. The following table displays the correct size to use depending on cord length and nameplate ampere rating. Use the next heavier gauge cord if in doubt.*

**Minimum Gauge for Cord Sets**

Nameplate Amperes	Extension Cord Length (in feet)					
	25	50	75	100	150	200
0 - 5	16	16	16	14	12	10
over 5 - 8	16	16	14	12	10	XX
over 8 - 12	14	14	12	10	XX	XX
over 12 - 15	12	12	10	10	XX	XX

**3) PERSONAL SAFETY**

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
- b) **Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.**
- c) **Avoid accidental starting.** Ensure the switch is in the off position before plugging in. *Carrying power tools with your finger on the switch invites accidents.*
- d) **Remove any adjusting key or wrench before turning the power tool on. A wrench of a key left attached to a rotation part of the power tool may result in personal injury.**
- e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothing, jewelry or long hair can be caught in moving parts.*
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of these devices can reduce dust-related hazards.*

**4) POWER TOOL USE AND CARE**

- a) **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
- b) **Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.**
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
- e) **Maintain power tools. Check for misalignment or binding of moving parts and other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
- f) **Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.**
- g) **Use the power tool, accessories and tool bits etc., in accordance with these instructions and the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
- h) **Use only manufacturer recommended accessories. Use of accessories not recommended by the manufacturer may be hazardous.**

**5) SERVICE**

- a) **Have your power tool serviced by a qualified repair person using identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

**6) SPECIFIC SAFETY INSTRUCTIONS FOR POLISHERS**

- a) **Maintain a safe working clearance between the power tool and the power cord during operation.** *The rotating action of the power tool may draw the cord into the tool damaging the tool or the user.*
- b) **Hold power tool by insulated gripping surface when performing an operation where the tool may contact hidden wiring or its own cord.** *Contact with a 'live' wire may make exposed metal parts of the tool 'live', shocking the operator.*
- c) **Do not use this power tool for prolonged periods of time. Vibration caused by the rotating action of this power tool may cause permanent injury to fingers, hand, and arms.** *Take frequent rest periods, limit daily use, and use gloves to provide additional cushioning.*
- d) **Maintain a firm grip and position your body and arm to resist any kickback.** *The operator can control kickback forces if proper precautions are made.*
- e) **Clean your tool often, especially after heavy use.** *Dust and grit can accumulate on internal surfaces creating an electric shock hazard. Clean air intake vents frequently.*

7) CAUSES AND OPERATOR PREVENTION OF KICKBACK

**CAUTION:** Use extra care when working into a corner because a sudden, sharp movement of the power tool may be experienced when the pad or other accessory contacts a secondary surface or a surface edge.

- Kickback is a sudden reaction to a pinched, bound or misaligned wheel, wirebrush or flap disc causing an uncontrolled cut-off tool to lift up and out of the workpiece toward the operator.
  - When the wheel is pinched or bound tightly by the workpiece, the wheel stalls and the motor reaction drives the unit rapidly back toward or away from the operator.
  - Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as provided below:
- a) Maintain a firm grip with both hands on the power tool and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken.
  - b) When wheel is binding or when interrupting a cut for any reason, release the trigger and hold the unit motionless in the material until the wheel comes to a complete stop. Never attempt to remove the unit from the work or pull the unit backward while the wheel is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of wheel binding.
  - c) When restarting a cut-off accessory in the workpiece, ensure that the wheel is not engaged into the material. If wheel is binding, it may walk up or kickback from the workpiece as the tool is restarted.
  - d) Support large panels to minimize the risk of wheel pinching and kickback. Large panels tend to sag under their own weight. Support must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

8) COMPONENTS (Figures 1, 2, and 5)

**WARNING:** Do not modify the power tool or any part of it. Damage or personal injury could result.

- A. Locking Safety Trigger
- B. Variable Speed Control Wheel
- C. Brush Inspection Cap
- D. Pad Release Knob & Axle
- E. Pad
- F. Splash Guard
- G. Drive Blade
- H. Locking Lever on Safety Trigger
- J. Carbon Brush

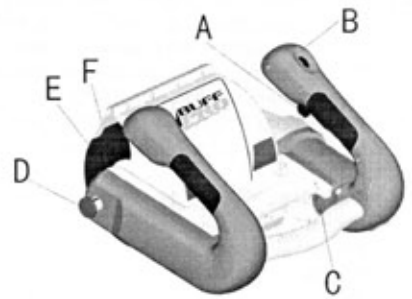


Figure 1

9) INSTRUCTIONS FOR PUTTING INTO USE (Figures 2 and 3)

**WARNING:** To reduce the risk of personal injury, turn the power tool off and disconnect from power source before making any adjustments or installing/removing Pads. Before reconnecting to power supply, depress and release trigger to ensure that the power tool is off.

- a) Set-up – The BuffPro® Model No. JF180 Polisher arrives fully assembled and operational. Install Pad and the power tool is ready for use.
- b) Pad Installation - Invert the power tool and allow to rest on handles. Pull out Pad Release Knob (D) and rotate Knob ¼ turn to lock open. Install the Pad with the cross pattern drive end aligned with the drive blades. Align the hole in the opposite end of the pad with the Pad Release Axle. Pull out Pad Release Axle Knob (D), rotate Knob ¼ turn and allow the Pad Release Axle to insert into the bearing on the Pad. Ensure that the Release Knob Axle is fully inserted into the Pad bearing.

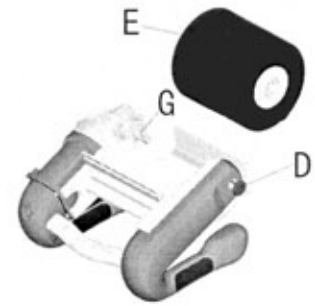


Figure 2

**WARNING:** The power tool should be grounded during use in order to protect the user from electric shock. The power tool is equipped with a three-conductor cord and a three-pronged plug to fit a grounding-type receptacle. NEVER CUT OR REMOVE THE GROUND PRONG FROM THE PLUG NOR MODIFY IT IN ANY WAY. Do not use with any adaptor plugs.

- c) Power Supply – Depress and release the Safety Trigger (A) to ensure that the power tool is turned off. Connect the plug to a power supply as indicated on the tool nameplate. Voltage and frequency differences from those listed on the nameplate will result in loss of power and overheating of the power tool.
- d) Pad Removal – Disconnect the power tool from power supply. Invert the power tool and allow to rest on handles. Pull out Pad Release Knob (D) and rotate Knob ¼ turn to lock open and remove the Pad.

10) INSTRUCTIONS FOR OPERATION (Figure 4)

**WARNING:** To reduce the risk of personal injury, turn the power tool off and disconnect from power source before installing/removing Pads. Before reconnecting to power supply, depress and release trigger to ensure that the power tool is off.

- a) Intended Use – The BuffPro® Model No. JF180 Polisher is designed for professional use. Do not use in humid conditions or in the presence of flammable liquids or gases. Do not let children use or come in contact with the power tool. Supervision is required for inexperienced operators of this power tool
- b) Motor – The BuffPro® Model No. JF180 Polisher is powered by a factory tested industrial grade motor and supplied with auto-resetting electrical current and thermal overload protective devices. If the power tool does not operate or ceases to operate, discontinue use and allow the motor to cool. If the power tool does not operate after cooling, check power supply and wire brushes.
- c) Locking Safety Trigger – The power tool is supplied with an activation Trigger (A) with a safety-lock off position. To operate the power tool, push the Locking Lever (H) forward and depress the Trigger (A) and the Pad will begin to Rotate. Releasing the Trigger turns the power tool off. The Trigger can be locked in the on position by pushing the Locking Lever (H) forward with the Trigger (A) in the fully retracted position. With the Locking Lever pushed forward, slowly release the Trigger. The power tool will continue to run. Depress the Trigger and release without pushing the Locking Lever to turn the power tool off.

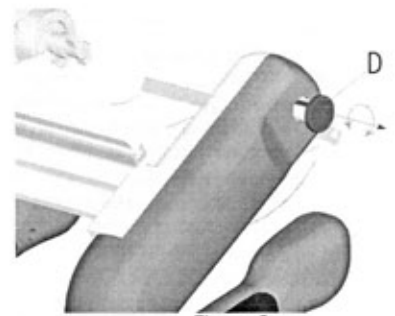


Figure 3

**CAUTION:** DO NOT UNPLUG THE POWER TOOL WITH THE TRIGGER IN A LOCKED-ON POSITION. A locked-on power tool will start immediately when plugged in.

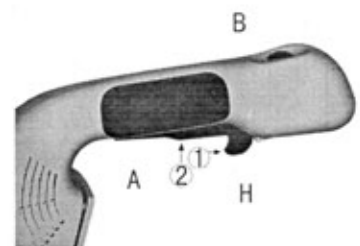


Figure 4

- d) **Variable Speed Control Wheel** – The BuffPro® Model No. JF180 Polisher is provided with a Variable Speed Control Wheel (B) that adjusts the rotational speed of the pad. The wheel incorporates detents to prevent inadvertent wheel movement and allow for easier identification of speed settings. The Variable Speed Control Wheel can be set at the following speeds:

Setting 1	1200 revolutions per minute
2	1700
3	2100
4	2400
5	2600
6	2700

11) **Cleaning and Maintenance (Figure 1, 5, and 6)**

**⚠ WARNING:** To reduce the risk of personal injury, turn the power tool off and disconnect from power source before making any adjustments or installing/removing Pads. Before reconnecting to power supply, depress and release trigger to ensure that the power tool is off.

**⚠ WARNING:** The power tool is equipped with three-conductor cord and a three-pronged plug to fit a grounding-type receptacle. NEVER CUT OR REMOVE THE GROUND PRONG FROM THE PLUG NOR MODIFY IT IN ANY WAY. Do not use with any adaptor plugs.

- a) **Cleaning** - After every use and periodically during long term use, air ventilation ducts in the power tool should be inspected and cleaned to ensure that proper air flow is maintained to avoid overheating of the motor and electrical components. Residue should not be allowed to build up on the interior surface of the BuffPro Shield that could restrict the movement of the Pad. Remove all polishing or compounding residue after every use.
- b) **Maintenance** – If properly used, the power tool is designed for years of use. Carbon Brushes located on either side of the motor under Brush Inspection Caps (C) are wear items and should be regularly inspected. Prior to inspection, ensure that the power tool is unplugged. To inspect brushes, unscrew the Inspection Caps and carefully remove the Carbon Brush. If the Brush has been worn to the indicator line, the Brush should be replaced. Do not reuse damaged Brushes or Inspection Caps. Contact the factory or your local sales representative for replacement Carbon Brushes or Inspection Caps.
- c) **Power Cord** – The power tool is supplied with a Type Y power supply cord attachment. If the replacement of the supply cord is necessary, this should be done by the manufacturer or an authorized agent to avoid a safety hazard. Contact the factory with any questions.

12) **GENERAL**

- a) **Polishing and Buffing** – These instructions and suggestions are intended to familiarize you with the BuffPro® Model No. JF180 Polisher and accessory components. Each operator will develop individual techniques and preferences as you learn to use the power tool. It is recommended that mid-range speed settings (1-3) are used during the initial learning process.
- b) **Suggestions for Improvements** – Feel free to contact your local sales representative or the factory with any comments or suggestions for improvement for the BuffPro® Model No. JF180 Polisher.



Figure 5

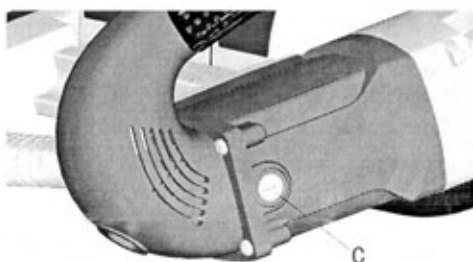


Figure 6

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## DETAIL PLUS

### LIMITED 1 YEAR WARRANTY

DETAIL PLUS 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 one year from the date of purchase. This warranty does not apply to damage due directly or indirectly to misuse, abuse, negligence or accidentals; repairs or alterations outside our facilities; 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.

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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**DETAIL PLUS**  
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