

BLUEROCK® Tools

OPERATION MANUAL V1.0

10FG | 10" FLOOR GRINDER

1.5 HP (1.1 kW) • 110V / 60Hz • Single Phase



READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THE MACHINE

Keep this manual for future reference

© BLUEROCK® TOOLS 2026

IMPORTANT SAFETY INFORMATION**WARNING**

Before using this equipment, read this entire manual and become familiar with the machine and its controls. Do not allow untrained or unauthorized persons to operate the equipment.

General Safety Rules

WARNING: Read and understand this entire manual before operating the BLUEROCK 10FG. Failure to follow operating and safety instructions may result in serious injury, death, electric shock, fire, or equipment damage.

- Operate the machine only if you are trained and capable of doing so safely. Become familiar with the start and stop controls and know how to stop the grinder quickly.
- Inspect the grinder before each use. Check the grinding tooling, grinding plate, coupling area, dust shroud, wheels, handle and latch, controls, power cord, plug, fasteners, water connection, and other components for damage, wear, looseness, or improper installation.
- Keep all guards, covers, and dust-shroud sections installed and properly secured except when a removable shroud section must be removed for approved edge grinding. Reinstall removed sections as soon as edge work is complete.
- Keep hands, feet, clothing, hair, power cords, vacuum hoses, water hoses, tools, and other objects away from the grinding head and all moving parts. Never reach beneath the machine while it is connected to power.
- Wear appropriate PPE, including eye protection, hearing protection, sturdy footwear, work clothing, gloves as appropriate, and respiratory protection appropriate for the dust generated.
- Use only grinding tools and accessories compatible with the 10FG, its mounting arrangement, application, and operating speed. Inspect tooling before every use.
- Control exposure to respirable crystalline silica. For dry grinding, use an appropriate industrial dust extractor. For wet grinding, use water only as described in this manual and maintain electrical connections dry and protected.
- Connect the grinder only to a properly grounded 110V, 60Hz single-phase power supply suitable for the machine.
- Use only grinding tools and accessories that are compatible with the machine, mounting system, application, and operating speed. Tooling must be securely installed before operation.
- Inspect all grinding tools before every use. Never use tooling that is cracked, broken, loose, excessively worn, improperly mounted, or otherwise damaged.
- Install compatible tooling uniformly across the grinding heads. Mismatched, missing, improperly installed, or unevenly worn tooling can cause excessive vibration, poor machine control, or damage to the grinding system.
- Do not operate with a damaged cord, plug, switch box, circuit breaker, or electrical enclosure. Keep electrical components and connections away from standing water and direct spray.
- Maintain a safe work area. Keep bystanders away, provide adequate lighting, and remove objects that may interfere with safe operation.
- Maintain a safe work area. Keep bystanders and unnecessary personnel away from the machine and grinding area. Provide adequate lighting and remove loose objects, debris, cords, and other hazards that could interfere with safe operation.
- Inspect the work area before grinding. Be aware of floor openings, edges, drop-offs, slopes, protruding objects, embedded materials, and other conditions that could affect machine control or damage the grinding tooling.
- Maintain control of the grinder at all times. Keep both hands on the handle during grinding and maintain stable footing.
- Use additional caution near walls, edges, floor openings, ramps, slopes, and other locations where unexpected machine movement could result in loss of control.
- Stop operation immediately if the machine develops unusual vibration, abnormal noise, overheating, loss of power, repeated overload, erratic movement, burning odor, damaged tooling, or any other abnormal condition. Disconnect the machine from power and determine the cause before continuing operation.
- Never leave the machine unattended while it is connected to electrical power.
- Do not force the machine or add unauthorized weight. Select suitable tooling for the required grinding performance.
- Stop immediately if the machine develops unusual vibration, noise, overheating, loss of power, erratic movement, or other abnormal behavior.
- Disconnect the machine from power before installing or removing tooling, cleaning, inspecting, adjusting, transporting, clearing an obstruction, or servicing the grinder.

- Do not modify the machine, electrical system, shroud, grinding plate, coupling, controls, or safety components.

IMPORTANT: These general safety rules do not replace the more specific warnings and operating instructions provided throughout this manual. Follow all applicable jobsite rules and local, state, and federal safety requirements.

Respirable Silica Dust

Grinding concrete, terrazzo, masonry, stone, and similar materials can generate respirable crystalline silica dust. Exposure to respirable crystalline silica can cause serious or fatal respiratory disease.

Use an industrial dust extractor suitable for concrete grinding and for the amount of dust generated by the application. Keep the grinder's dust shroud properly positioned and inspect the vacuum hose, connections, filters, and dust-collection system for damage, leakage, blockage, or loss of suction.

Do not continue dry grinding if the dust-collection system is not functioning properly or if excessive visible dust is being released from the grinding area.

Use appropriate respiratory protection when required and follow applicable OSHA requirements, jobsite exposure-control procedures, and other applicable regulations concerning respirable crystalline silica.

Electrical Safety

- Use only a properly grounded 110V, 60Hz, single-phase electrical supply suitable for the machine.
- Do not remove, modify, bypass, or defeat the grounding connection. Never modify the supplied plug to fit an incompatible receptacle.
- Before connecting the machine, verify that the available power supply corresponds with the voltage and frequency specified on the machine.
- When an extension cord is required, use only a grounded, heavy-duty cord suitable for the voltage, current, environment, and length of the run.
- Excessive extension-cord length or insufficient conductor size can cause voltage drop, overheating, reduced motor performance, and equipment damage. Use the shortest practical extension cord and do not exceed the recommended length.
- Do not use damaged, undersized, modified, ungrounded, or household-type extension cords.
- Inspect the machine power cord, plug, receptacle, and extension cord before use. Do not operate the machine if electrical components are cut, crushed, loose, burned, overheated, or otherwise damaged.
- Keep the power cord and extension-cord connections away from the grinding head, traffic paths, sharp edges, heat, standing water, and other conditions that could damage the cord or create an electrical hazard.
- Route the power cord and vacuum hose behind the operator and away from the grinding path.
- Do not expose the motor, electrical controls, plug, receptacle, extension-cord connections, or electrical enclosures to standing water, rain, or direct water spray.
- Do not pull or carry the machine by the power cord or disconnect the plug by pulling on the cord.
- Switch the machine OFF before connecting or disconnecting electrical power.
- Disconnect the power plug before changing grinding tooling, clearing obstructions, cleaning, inspecting, adjusting, transporting, or servicing the machine.
- Internal electrical inspection, repair, or modification must be performed by qualified personnel.

Grinding Tool Safety

- Use only diamond grinding shoes, grinding heads, PCD tooling, polishing pads, holders, plates, and accessories compatible with the BLUEROCK 10FG and the intended application.
- Verify that all grinding tooling is rated for the machine's operating speed. Never use tooling with a maximum rated speed lower than the speed at which it will be operated.
- Inspect all grinding tools before installation and before each use. Do not use tooling that is cracked, chipped, bent, excessively worn, damaged, or otherwise questionable.
- Keep magnetic holders and all mating surfaces clean and free of concrete dust, metal particles, and other debris that could prevent the tooling from seating properly.

- Make sure each grinding tool is fully seated and securely retained before operating the machine. Check retaining sleeves, fixing pins, magnets, holders, adapters, and related mounting components for damage or excessive wear.
- Install compatible tooling uniformly across all three grinding heads. Use tooling of the same type, size, and similar wear condition unless a specific application requires an approved alternative configuration.
- Never operate the grinder with missing, loose, improperly installed, or mismatched tooling. An unbalanced grinding assembly can cause excessive vibration, loss of machine control, damage to the grinder, or separation of tooling.
- After installing or changing tooling, manually check the grinding assembly for proper clearance and secure installation before returning the machine to its normal operating position.
- Keep hands, feet, power cords, vacuum hoses, and other objects away from the grinding head whenever the machine is connected to electrical power.
- Never reach beneath the machine, inspect the underside, or attempt to adjust or remove grinding tooling while the grinder is connected to electrical power.
- Before installing, removing, inspecting, cleaning, or adjusting grinding tooling, switch the machine OFF, disconnect the power plug, and wait for all moving components to come to a complete stop.
- Grinding tools can become hot during operation. Allow tooling and surrounding components to cool before handling. Wear appropriate gloves when handling recently used tooling.
- Stop the machine immediately if excessive vibration, unusual noise, uneven grinding, tooling movement, or other abnormal operation occurs. Disconnect power and inspect the grinding tooling and mounting system before restarting.
- Do not attempt to modify grinding wheels, holders, adapters, magnets, retaining components, or the grinding-head assembly to accept incompatible tooling.
- Select the correct diamond bond, grit, and tooling type for the material and application. Incorrect tooling can reduce grinding performance, increase vibration or loading, and cause premature wear or damage.

WARNING: Improperly installed, damaged, or incompatible grinding tooling can break or separate during operation and may cause serious injury. Always disconnect the machine from electrical power before accessing the grinding head or tooling.

TECHNICAL DATA	
Specification	10FG
Model	BLUEROCK 10FG
Motor	1.5 HP (1.1 kW)
Voltage / Frequency	110V, 60Hz
Phase	Single Phase
Motor Speed	1730 RPM
Grinding Path / Standard Head	10" (250 mm)
Standard Plate Bolt Type	M12 x 25 countersunk socket head
Net Weight	132 lb (60 kg)
Main Construction	Powder-coated steel
Grinding Method	Wet or Dry
Drive System	Direct drive through flexible coupling
Dust Collection	Adjustable dust shroud; vacuum connection for dry grinding
Water Connection	Integrated connection with regulating ball valve

Intended Use

The BLUEROCK 10FG is an electrically powered, walk-behind single-head floor grinder designed for professional grinding, surface preparation, coating removal, and polishing work on concrete, terrazzo, and similar hard floor materials. The machine may be operated wet or dry when equipped and controlled appropriately for the application.

- Concrete surface preparation and profiling
- Grinding and leveling concrete surfaces
- Removal of surface irregularities and high spots

- Removal of compatible coatings and surface residue using application-appropriate tooling
- Preparation of concrete prior to coatings, overlays, or flooring systems
- Concrete and terrazzo grinding or polishing using compatible tooling
- Edge grinding with the applicable removable shroud section removed and appropriate dust-control precautions

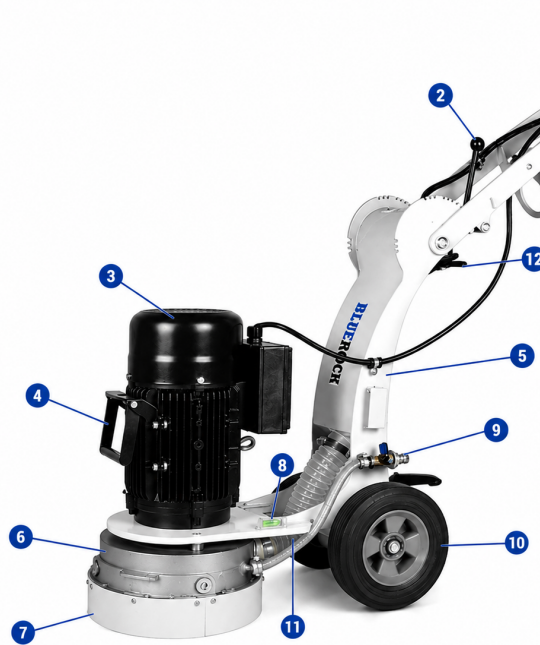
Grinding performance varies with floor material and hardness, surface condition, tooling type and grit, coating or material being removed, operator technique, and dust- or water-control performance.

The 10FG is intended for professional floor-grinding applications only. Do not use it for cutting, scarifying, milling, sanding wood, grinding metal, or applications for which the machine and installed tooling were not designed.

MACHINE DESCRIPTION

Main Components

The 10FG includes an adjustable folding operator handle, start/stop switch box, 1.5 HP electric motor, direct-drive grinding assembly with flexible coupling, 10-inch grinding plate/tooling system, adjustable dust shroud with removable edge-grinding sections, vacuum connection, water connection with ball valve, bubble level, adjustable rear axle/leveling system, transport wheels, and lifting/carry handle.



Item	Component
1	Operator handle
2	Folding Frame Knob
3	Electric motor
4	Motor carry / lifting handle
5	Main frame
6	10" grinding head / grinding plate
7	Dust shroud with removable sections
8	Bubble level
9	Water connection and regulating valve
10	Transport wheels / adjustable axle
11	Vacuum Hose
12	Folding Mechanism

HANDLING AND TRANSPORT

CAUTION

The 10FG weighs approximately 132 lbs. Use appropriate assistance, ramps, lifting equipment, and securement methods when loading, unloading, or transporting the machine.

Moving the Machine on the Jobsite

- Switch the machine OFF, disconnect it from power, and wait for the grinding head to stop before moving it between work areas.
- Disconnect the vacuum hose and water supply, close the water valve, and secure the power cord before transport.
- Use the operator handle and transport wheels to control the machine. Move slowly over ramps, thresholds, uneven surfaces, and slopes.
- Keep hands and feet clear of pinch points around the folding handle, frame, wheels, axle, and grinding head.
- Do not drag installed diamond tooling across the floor during transport.
- Use the motor carry/lifting handle only as intended and use sufficient assistance when lifting.

Folding and Adjusting the Handle

1. Disconnect the grinder from electrical power.
2. Support the handle while releasing the folding-handle latch or adjustment mechanism.
3. Move the handle to the desired operating, transport, or storage position.
4. Secure the latch/locking mechanism before moving or operating the grinder.
5. Verify the handle is secure before use.

Vehicle Transport

- Keep the machine stable and secure it so it cannot roll, slide, tip, or shift.
- Use structural frame points for tie-downs. Do not secure the machine by the switch box, power cord, vacuum connection, water fittings, dust shroud, or other non-structural components.
- Remove or separately secure loose accessories and tooling where appropriate.
- After transport, inspect the grinder for loose hardware, damage, or misalignment before returning it to service.

GRINDING TOOL INSTALLATION AND REMOVAL

WARNING

Disconnect the power plug before installing, removing, inspecting, or adjusting grinding tools. Wait until the grinding head has completely stopped.

Compatible Grinding Tooling

The 10FG can accept several tooling arrangements depending on the mounting plate and application. The supplied product information shows the following configurations:

- Redi-Lock style diamond grinding shoes using the compatible shoe plate
- 250 mm (10") grinding head
- 250 mm (10") PCD grinding head for compatible coating-removal applications
- 100 mm (4") polishing pads using compatible holders



Redi-Lock
Grinding Shoes



100mm(4 Inch)
Polishing Pad



250mm (10 Inch)
Grinding Head



250mm (10 Inch)
PCD Grinding Head

Before Installing or Changing Tooling

1. Move the machine to a stable, level surface.
2. Switch the machine OFF, disconnect the power plug, and wait for all moving components to stop.
3. Disconnect or position vacuum and water hoses so they do not interfere with the tooling change.
4. Carefully position the grinder so the underside of the grinding head can be accessed safely.
5. Clean the grinding plate, adapters, and mating surfaces.
6. Inspect the plate, fasteners, coupling area, holders, and tooling for damage or excessive wear.
7. Confirm the tooling is compatible with the mounting system, operating speed, material, and intended application.

Installing the Grinding Plate / Head

1. Align the compatible grinding plate or head with the machine mounting arrangement.
2. Install the specified mounting hardware and tighten all countersunk bolts firmly and evenly.
3. Install diamond shoes, PCD tooling, polishing-pad holders, or other compatible tooling according to the tooling system being used.
4. Confirm the tooling arrangement is balanced and securely retained.
5. Rotate the grinding assembly by hand only as necessary to confirm clearance and secure installation.
6. Return the machine to its normal operating position before reconnecting power.
7. After a tooling change, start the grinder in a clear area and stop immediately if abnormal vibration or noise occurs.

IMPORTANT: Never operate with loose, damaged, mismatched, unbalanced, or improperly installed grinding tooling.

STARTING, GRINDING AND STOPPING

Before Starting

- Read and understand this manual and become familiar with the controls.
- Inspect the work area and remove loose debris, cords, hoses, protruding objects, and other hazards.
- Inspect the machine, grinding tooling, grinding plate, dust shroud, vacuum and water connections, power cord, plug, controls, wheels, handle latch, and accessible fasteners.
- Verify all tooling is suitable, correctly balanced, and securely mounted.
- Check that the grinding plate is adjusted to sit level on the work surface. Use the bubble level as a reference.
- For dry grinding, connect an appropriate industrial dust extractor before starting.
- For wet grinding, connect the water supply and verify the valve and hose connections are secure. Keep electrical components and connections dry.
- Route the power cord, vacuum hose, and water hose so they cannot enter the grinding path.
- Verify the electrical supply is 110V, 60Hz, single phase and suitable for the machine.

Leveling the Grinder

- Loosen the level-adjustment fastener counterclockwise.
- Lift the level-adjustment handle to raise the back end of the grinder, or lower the handle to lower the back end.
- Use the bubble level on the machine as a reference.

- When the grinding plate sits level on the work surface, tighten the level-adjustment fastener clockwise to secure the position.

Starting the 10FG

1. Position the grinder on the work surface and raise the grinding plate from the floor enough to allow a controlled startup.
2. For dry grinding, start the connected dust extractor. For wet grinding, establish the appropriate water flow using the regulating valve.
3. Connect the grinder to the proper grounded power supply.
4. Take the normal operator position with stable footing and both hands available to control the handle.
5. Start the motor using the black start control on the starter box.
6. Maintain firm control of the handle as the motor reaches operating speed.
7. Lower the grinding plate to the floor and begin grinding.

Grinding Operation

8. Keep the grinding head moving side to side across the work surface to produce an even grind. Use overlapping passes as appropriate for the tooling and desired surface profile.
9. Maintain steady movement. Do not hold aggressive tooling stationary in one location.
10. Allow the machine and correctly selected tooling to perform the grinding. Do not add unauthorized weight or apply excessive force to the handle.
11. For dry grinding, monitor dust collection continuously. Stop if suction is lost, the hose is blocked, or visible dust control becomes inadequate.
12. For wet grinding, regulate water flow as needed for the application. Keep electrical components and connections protected from water.
13. Watch and listen for unusual vibration, noise, overheating, loss of power, or changes in grinding performance.
14. Periodically stop, disconnect power, and check countersunk bolts and tooling security because vibration can loosen fasteners during operation.

Edge Grinding

15. The dust shroud has removable sections that can provide closer access to a wall or edge. Removing a shroud section can increase area dust. Use only the section necessary for the work, maintain appropriate dust or water control, keep hands and feet clear of the exposed grinding area, and reinstall the shroud section when edge grinding is complete.

Stopping the Machine

16. Raise or unload the grinding plate as appropriate while maintaining control of the machine.
17. Press the red stop button on the starter box.
18. Maintain control until the grinding head comes to a complete stop.
19. Disconnect the power plug before leaving the machine unattended, changing tooling, cleaning, inspecting, adjusting, or servicing it.
20. Close the water valve and disconnect the water supply when wet grinding is complete. Allow the dust extractor to run briefly after dry grinding if needed to clear residual dust.

OPERATING REMINDERS AND ABNORMAL CONDITIONS

Operating Reminders and Prohibited Practices

- Do not operate the grinder without the dust shroud properly installed and in serviceable condition.
- Do not allow the grinding head to contact or run over the power cord, extension cord, or vacuum hose. Route cords and hoses behind the machine and away from the grinding path.
- Do not operate the grinder on steep slopes, unstable surfaces, near unprotected floor openings or edges, or in other locations where the machine's weight or movement could cause loss of control.
- Maintain stable footing and keep both hands on the operator handle while the grinding head is rotating.
- Do not force the machine or use the operator handle as a lever to apply excessive grinding pressure. Allow the machine weight and properly selected diamond tooling to perform the grinding.
- Use compatible, properly installed tooling of the same type, size, and similar wear condition across the grinding heads unless a specific approved tooling configuration requires otherwise.
- Do not operate with missing, loose, damaged, improperly installed, or excessively worn grinding tooling.
- Stop the machine immediately if abnormal vibration, unusual noise, erratic movement, burning odor, overheating, tooling movement, or another abnormal condition develops. Disconnect electrical power and determine the cause before restarting.
- Do not attempt to clear accumulated material, inspect the underside of the machine, or adjust the grinding tooling while the grinder is connected to electrical power.
- Grinding tooling and surrounding components may become hot during operation. Allow them to cool before handling and wear appropriate gloves when necessary.
- Do not operate the machine with the grinding head intentionally tilted or partially supported unless specifically required by an approved operating procedure.
- Never leave the grinder unattended while it is connected to electrical power.
- Do not allow untrained personnel or bystanders within the immediate operating area.

If the Grinding Head Stalls or the Motor Overloads

If the grinding head stops rotating, the motor stalls, an overload-protection device activates, or the machine unexpectedly loses grinding power:

1. Switch the grinder **OFF** immediately.
2. Disconnect the power plug from the electrical supply.
3. Wait for the grinding head and all moving components to come to a complete stop.
4. Do not attempt to rotate, free, or clear the grinding head while the machine is connected to electrical power.
5. Inspect the grinding tooling and underside of the machine for foreign objects, excessive material buildup, loose or damaged tooling, damaged mounting components, or other obstructions.
6. Check that the grinding tooling is appropriate for the material and application and is not being subjected to excessive grinding pressure.
7. Inspect the power cord, plug, receptacle, and extension cord. Verify that the electrical supply is correct and that any extension cord is properly sized for its length.
8. Verify that the power cord and dust-extraction hose are clear of the grinding assembly and are not restricting machine movement.
9. Allow the motor and electrical components to cool if an overload or overheating condition has occurred.
10. Correct the cause of the stall or overload before reconnecting electrical power.
11. After correcting the condition, return the grinder to its normal operating position and restart it according to the normal starting procedure.

WARNING: Repeated stalling, overload activation, circuit tripping, abnormal vibration, overheating, or loss of power indicates a condition that must be investigated and corrected. **Do not repeatedly reset an overload device or circuit breaker and continue operating the machine without determining the cause.** If the cause cannot be identified and safely corrected, discontinue use and contact BLUEROCK Tools for technical assistance.

PERIODIC INSPECTION AND MAINTENANCE

WARNING

Disconnect the grinder from electrical power before cleaning, inspection, adjustment, or service. Allow moving and hot components to stop and cool before handling.

After-Use Cleaning and Inspection

Proper cleaning and inspection after each use will help maintain safe operation and extend the service life of the 10FG.

1. Switch the grinder **OFF**, disconnect the power plug from the electrical supply, and wait for the grinding head and all moving components to come to a complete stop.
2. Allow the motor, grinding tooling, and other components to cool before cleaning or inspection.
3. Use the connected dust extractor or another suitable dust-control method to remove accumulated concrete dust and debris from the dust shroud, grinding-head area, frame, wheels, motor ventilation openings, and accessible surfaces.
4. **Do not use compressed air to blow concrete dust from the machine where doing so could create an airborne dust hazard or force abrasive dust into the motor, bearings, controls, or electrical components.**
5. Do not wash the machine with a pressure washer or direct water spray at the motor, controls, LED display, switches, electrical enclosures, bearings, power plug, cable connections, or other electrical components.
6. Inspect the grinding tooling for cracks, chips, excessive or uneven wear, looseness, or other damage. Replace damaged or excessively worn tooling before the next use.
7. Inspect the magnetic tooling holders, magnets, retaining sleeves, fixing pins, cushions/shock pads, and related mounting components for damage, looseness, contamination, or excessive wear.
8. Clean the magnetic holders and tooling-mounting surfaces as necessary. Keep these surfaces free of concrete dust, metal particles, and other debris that could prevent proper tooling installation.
9. Inspect the dust shroud, vacuum port, vacuum-hose connection, and related components for wear, damage, blockage, or leakage.
10. Inspect the power cord and NEMA L6-20P plug for cuts, abrasion, crushing, exposed conductors, loose components, discoloration, heat damage, or other defects.
11. Check accessible nuts, bolts, handle locks, transport wheels, weight-retention components, and other accessible fasteners for looseness or damage.
12. Correct any damage, excessive wear, looseness, or other unsafe condition before the machine is used again.

WARNING: Do not clean, inspect, adjust, or service the underside of the grinder while the machine is connected to electrical power.

Regular Maintenance

Regular inspection and maintenance are necessary to keep the 10FG operating safely and efficiently. Inspection frequency should be increased when the machine is used heavily or in particularly dusty or demanding conditions.

- Inspect and tighten accessible fasteners regularly. Pay particular attention to fasteners during the first several hours of operation and after transportation.
- Inspect the operator handle, folding mechanism, locking components, and adjustment points for looseness, wear, or damage.
- Inspect the transport wheels, wheel shafts, and related mounting components for wear, looseness, and proper operation.
- Inspect the grinding-head assembly and tooling mounting system regularly for abnormal wear, looseness, or damage.
- Inspect the grinding-head cushions, shock pads, magnets, retaining sleeves, fixing pins, and related components regularly. Replace damaged or excessively worn components.
- Keep the magnetic tooling holders and mating surfaces clean and free of accumulated dust and debris.
- Keep the motor ventilation openings clean and unobstructed. Do not operate the machine if airflow to the motor is restricted.

- Inspect the dust shroud and vacuum connection regularly and replace damaged components that prevent effective dust collection.
- Inspect the power cord and plug regularly. Replace damaged electrical components before operating the machine.
- Check the emergency-stop function and normal operating controls regularly for proper operation.
- Inspect the machine for unusual vibration, noise, overheating, fluid leakage from the gearbox, or other changes in normal operation.
- Have internal electrical components, motor components, gearbox/drive components, and other internal systems inspected or serviced by qualified personnel when necessary.

IMPORTANT: Replace damaged, excessively worn, or defective components before returning the grinder to service. Do not continue operating the 10FG when a condition exists that could affect safe operation or proper control of the grinding system.

Storage

Before storing the 10FG:

- Switch the machine **OFF**, disconnect it from electrical power, and allow the machine and grinding tooling to cool.
- Clean the grinder and remove accumulated concrete dust and debris.
- Inspect the machine for damage, loose components, worn tooling, or maintenance requirements that should be corrected before the next use.
- Coil and secure the power cord so that it cannot be crushed, cut, sharply bent, or otherwise damaged during storage.
- Disconnect and properly store the vacuum hose and loose accessories.
- Place the folding handle in an appropriate storage position and make sure the locking mechanism is securely engaged.
- Store the machine upright on a stable, level surface where it cannot roll, tip, or fall.
- Store the grinder in a clean, dry, secure location protected from rain, standing water, excessive moisture, corrosive materials, extreme temperatures, and unauthorized use.
- Store grinding tooling and adapters in a dry location where they are protected from impact, moisture, contamination, and damage.
- Keep the machine and its accessories out of the reach of children and untrained persons.

Before returning a stored machine to service, perform the complete pre-operation inspection described in this manual.

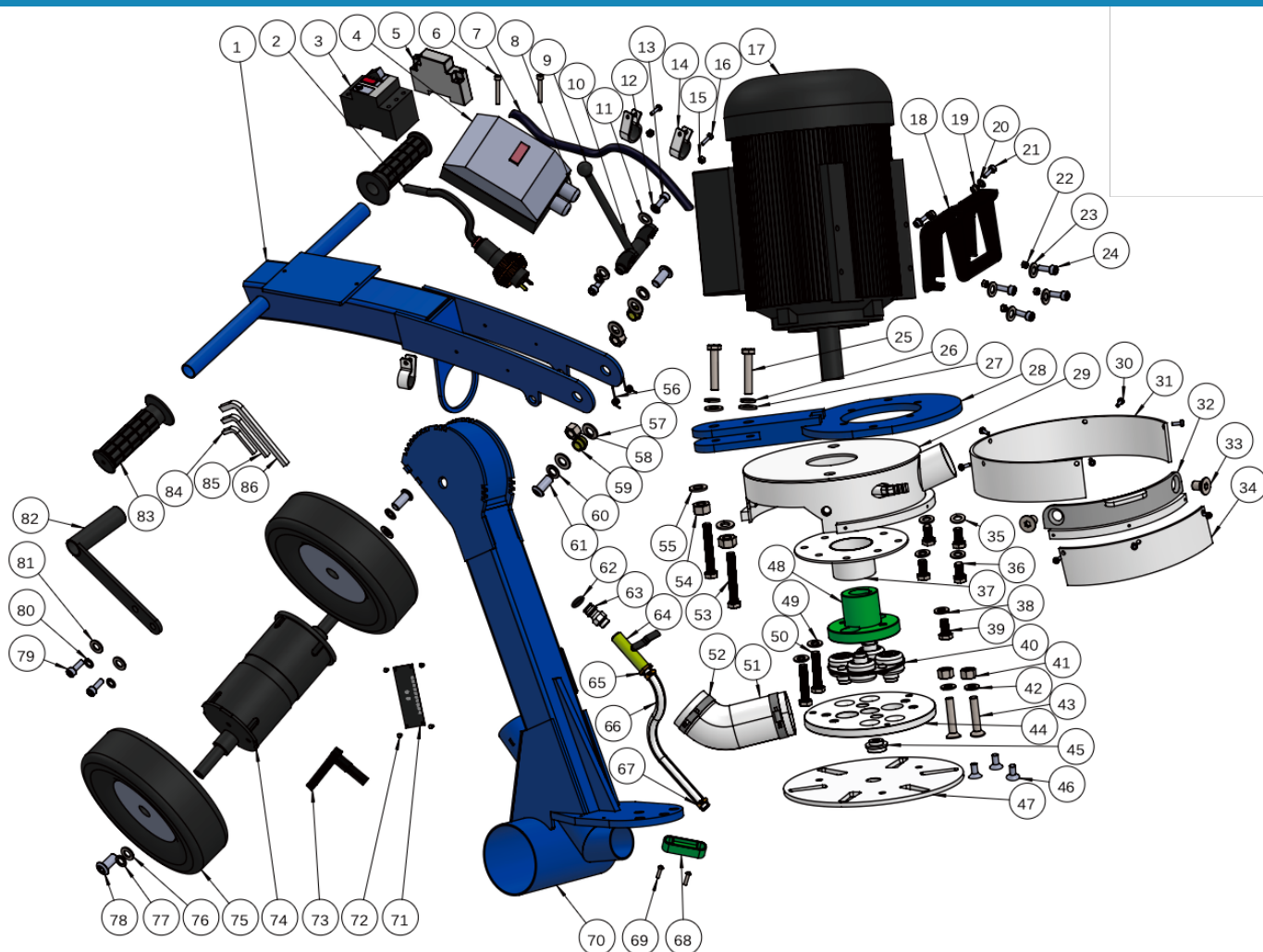
TROUBLESHOOTING		
Condition	Possible Cause	Corrective Action
Machine does not start	No power; circuit breaker/starter issue; damaged cord/plug; control fault	Verify supply and receptacle; inspect cord/plug and starter box; check/reset protection as applicable; contact service if condition remains.
Grinder runs for a short time then stops	Electrical current-limit/protection setting incorrect; excessive load; supply issue	Stop operation; verify supply and grinding load. Have the current-limit/protection setting checked and adjusted by qualified service personnel if required.
Motor runs but grinding performance is poor	Tooling not matched to application; worn/glazed tooling; incorrect plate or setup	Re-evaluate tooling selection; inspect wear; install tooling appropriate for the material and desired result.
Excessive vibration	Grinding plate/tooling not correctly balanced; loose or damaged tooling; loose fasteners	Stop immediately, disconnect power, inspect tooling balance, plate mounting, countersunk bolts, and related components before restarting.

Grinding noise under no-load operation	Worn motor bearings or drive coupling; loose drive component	Discontinue use and have the machine evaluated and serviced by qualified personnel.
Excessive dust during dry grinding	Dust extractor off or undersized; blocked hose/filter; shroud section removed; damaged shroud or poor connection	Stop grinding; restore adequate dust extraction; inspect shroud, hose, filters, and connections; reinstall removable shroud section when edge work is complete.
Machine grinds unevenly or pulls	Machine not level; uneven or mismatched tooling; worn/damaged plate	Use bubble level and leveling adjustment; inspect tooling balance and wear; correct or replace damaged components.
Water flow inadequate during wet grinding	Valve closed/restricted; hose or fitting blocked; supply problem	Stop grinding; inspect water supply, valve, hose, and fittings; clear restriction before continuing.

WARNING: Always switch the machine OFF, disconnect the power plug, and wait for all moving components to stop before inspecting the grinding head, tooling, or underside of the machine. Do not perform internal electrical, motor, or drive-system repairs unless qualified to do so.

IMPORTANT: If a problem cannot be identified and safely corrected using the procedures in this manual, discontinue use of the machine and contact BLUEROCK Tools for technical assistance. Do not continue operating a machine that exhibits repeated overload, abnormal vibration, overheating, unusual noise, electrical problems, or other unsafe conditions.

EXPLODED PARTS DIAGRAM AND PARTS LIST



Part Number	Part name	Qty	Part Number	Part name	Qty
1	Upper bracket	1	44	Converter plate	1
2	Power plug	1	45	Locating pin	1
3	Motor circuit breaker	1	46	Hexagon socket countersunk head cap screw(M8x16)	3
4	Switch box	1	47	Grinding shoe plate	1
5	Undervoltage tripping	1	48	Flange	1
6	Hexagon socket button head cap screw (M5x12)	2	49	Flat washer(Φ10)	2
7	Power line	1	50	Hexagon screw(M10x55)	2
8	Nylon waterproof joint	2	51	Wired hose, 1D50x240mm PU	1
9	Bakelite ball knob handle (M6xD25)	1	52	Stainless steel band clamp(Φ40-63)	2
10	Upper bracket angle adjustment fixing mount	1	53	Hexagon screw(M12x70)	2
11	Flat washer (Φ8)	2	54	Nut(M12)	2
12	Spring washer (Φ8)	2	55	Flat washer(Φ12)	2
13	Hexagon socket button head cap screw (M8x16)	2	56	Spring (left/right)	2
14	R-shape stainless steel retaining clip (D12)	3	57	Flat washer(Φ12)	4
15	Lock nut (M5)	3	58	Lock nut(M12)	2
16	Hexagon socket button head cap screw (M5x16)	3	59	Adapter sleeve	2
17	Motor	1	60	Spring washer(Φ12)	2
18	Motor carry handle	1	61	Hexagon socket button head cap screw(M12x30)	2
19	Lock nut (M6)	2	62	O-ring(Φ16xΦ3.1)	1
20	Flat washer (Φ6)	2	63	water valve quick connector, G1/4" external	1
21	Hexagon socket head cap screw (M6x16)	2	64	water valve switch, G1/4" internal thread	1
22	Nut (M8)	4	65	Pagoda-shape connector	1

23	Flat washer (Φ8)	4	66	Fiberjacket hose, Φ12x370mm	1
24	Hexagon socket nut (M8x16)	4	67	Stainless steel band clamp(Φ9-16)	2
25	Hexagon screw (M12x35)	2	68	Spirit level	1
26	Spring washer (Φ12)	2	69	Cross recessed screw with flat washer(M4x8)	2
27	Flat washer (Φ12)	2	70	Bottom bracket	1
28	Motor fixing bracket	1	71	Nameplate	1
29	Dust cover	1	72	Nameplate drive screw(Φ3x8)	4
30	Cross recessed screw with flat washer (M4x8)	8	73	Handle screw(M12x25)	1
31	Plastic dust shroud (long) (3x56x641)	1	74	Axle	1
32	Accessory for dust cover	1	75	Wheel(8")	2
33	Hexagon socket countersunk head cap screw (M12x20)	2	76	Flat washer(Φ10)	2
34	Plastic dust shroud (short) (3x56x205)	1	77	Spring washer(Φ10)	2
35	Flat washer (Φ8)	4	78	Hexagon socket button head cap screw(M10x16)	2
36	Hexagon screw (M8x35)	4	79	Hexagon socket head cap screw(M8x16)	2
37	Motor fixing plate	1	80	Spring washer(Φ8)	2
38	Flat washer (Φ10)	1	81	Flat washer(Φ8)	2
39	Hexagon screw (M10x30)	1	82	Horizontal adjustment handle	1
40	Coupling	1	83	Rubber handle	2
41	Lock nut (M10)	2	84	Hexagon Key-5	1
42	Flat washer (Φ10)	1	85	Hexagon Key-6	1
43	Hexagon socket countersunk head cap screw (M10x55)	1	86	Hexagon Key-8	1

LIMITED WARRANTY

1-Year Limited Warranty

The BLUEROCK 10FG is covered by a 1-Year Limited Warranty against defects in materials and workmanship, subject to the BLUEROCK Tools Limited Warranty terms and conditions in effect at the time of purchase.

During the applicable warranty period, BLUEROCK Tools may, at its discretion and subject to the terms of the warranty, repair or replace a covered component determined to be defective in materials or workmanship.

This limited warranty applies only when the machine has been operated, maintained, transported, and stored in accordance with this manual.

Warranty coverage does not extend to damage or failure resulting from normal wear, misuse, abuse, improper operation, inadequate maintenance, unauthorized modification or repair, accidents, improper transportation or storage, unsuitable accessories or grinding tooling, or operation outside the specifications and intended use of the machine.

Normal Wear and Consumable Components

- Diamond grinding wheels, plugs, and other grinding consumables
- Grinding-head cushions and shock pads
- Magnets, retaining sleeves, fixing pins, and other tooling-retention components subject to normal wear
- Bearings and seals
- Wheels and wheel components
- Dust shrouds, hoses, and couplings
- Filters and vacuum-system consumables
- Other components subject to normal deterioration through use

Warranty Exclusions

- Misuse, abuse, neglect, or operator error.
- Use of the machine for purposes other than its intended use.
- Failure to follow the operating, safety, electrical, or maintenance instructions provided with the machine.
- Continued operation after abnormal vibration, overload, unusual noise, overheating, or other indication of a problem.
- Use of incorrect, damaged, improperly installed, or unsuitable grinding tooling.
- Operation without required guards, dust shroud, or safety components.
- Unauthorized alteration, modification, repair, or disassembly.
- Accident, impact, dropping, improper handling, or improper transportation.
- Improper storage, corrosion, water damage, contamination, or operation outside stated specifications.
- Normal wear and deterioration associated with ordinary use.

Obtaining Warranty Assistance

If you believe the 10FG has developed a defect covered by warranty, contact BLUEROCK Tools before returning or shipping the machine.

- Proof of purchase
- Machine model
- Machine serial number
- Date of purchase
- Description of the problem
- Photographs or video when requested
- Additional diagnostic information reasonably necessary to evaluate the claim

Do not ship or return the machine to BLUEROCK Tools without first obtaining return or service instructions. Unauthorized shipments may be refused.

Replacement Parts and Technical Support

Replacement and service parts are available for the 20FG through BLUEROCK Tools. BLUEROCK Tools also provides Lifetime U.S.-Based Technical Support for assistance with machine operation, troubleshooting, maintenance, and replacement-part identification.

IMPORTANT: This manual provides a summary of warranty coverage for the 10FG and is not intended to replace the complete BLUEROCK Tools Limited Warranty terms and conditions. In the event of a conflict, the applicable BLUEROCK Tools Limited Warranty terms and conditions in effect at the time of purchase will govern.