



BLADK SPEJD

BS-D015 & BS-D021

Long-Throw Random Orbital Polisher

INSTRUCTION MANUAL



WARNING:

For your personal safety, READ and UNDERSTAND the instruction manual before using. Keep these instructions handy for future reference

IMPORTANT SAFETY INFORMATION



For your personal safety, READ and UNDERSTAND the instruction manual before using. Keep these instructions handy for future reference.

INTENDED USE

- NANOSKIN MICROBUFF 15mm & 21mm Long-Throw Random Orbital Polishes are designed to be used as polishers. Read all the warnings, instructions, indications provided on drawings and specifications supplied with this tool.
- 2. This tool is designed to be used with NANOSKIN BSA-D6BP 6" Backing Plate, BSA-D5BP 5" Backing Plate, correspond ing NANOSKIN wool pads, foam pads, microfiber pads, and with appropriate NANOSKIN com pounds, polishes, waxes & glazes. Do not use pads that have a maximum speed rating less than the tool's specified maximum speed rating. Only accessories specifically recommended by NANOSKIN should be used with this tool.
- 3. This tools is not intended to be used for smoothing, metal brushing and cutting operations. The use of this tool for unin tended applications may cause hazard and injuries to people.

EXPLANATION OF SIGNAL WORDS



WARNING: For your personal safety, READ and UNDERSTAND the instruction manual before using. Keep these instructions handy for future reference.



CAUTION: Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage.



WARNING-Hazardous Voltage



Do Not Discard In Household Waste



Read And Follow Use Instructions



Wear Proper Eye Protection



Wear Respiratory Protection



Wear Gloves



Wear Proper Hearing Protection



"Class II" Construction

GENERAL POWER TOOL SAFETY WARNINGS



WARNING: Ready all safety warnings and all instruction.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

1. Work Area Safety

- (a) Keep work area clean and well lit. Cluttered 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 fool. Distractions can cause you to lose control.

2. Electrical Safety

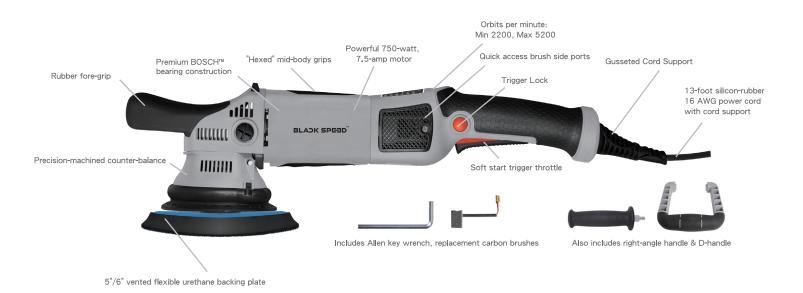
- (a) Power tool plugs match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- (b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- (c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock
- (d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- (e) When operating a power tool outdoors, use an extension cord suitable for outdoor use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- (f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

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 inatten tion while opera-ting power tools may result in serious personal injury.
- (b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- (c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- (d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating 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 and gloves away from moving parts. Loose clothes, jewellery 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 dust collection 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 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, breakage of parts and any other condition that any affect the power tool's operation. if damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- (f) Hold power tool by insulated gripping surfaces when performing an operation where the spinning accessory contacting an energized wire may make exposed metal parts of the tool live and shock the operator.
- (g) Position the cord clear of the spinning accessory. If you lose control, the cord may be cur or snagged and your hand or arm may be pulled into the spinning accessory.
- (h) Never lay the power tool down until the spinning accessory has come to a complete stop. It may grab the surface and pull the power tool out.
- (i) Do not run the power tool while carrying it at your side. Accident contact with the spinning accessory could snag your clothing and pull the accessory into your body.



POWER TOOL SPECIFICATIONS

Туре	MB-D015	MB-D021			
Orbit Dia.	15mm	21mm			
Power Output (Watt)	750W				
Power Output (Amps)	7.5A				
Orbits Per Minutes (OPM)	0 - 5,200	0-4,800			
Cord Length	13'				
Tool Length	17.72"				
Weight	6.19 LB.	6.45 LB			
Electronic Speed Control	Yes	Yes			
Soft Start Trigger	Yes	Yes			
Installed Backing Plate	5"	6"			

Backing Plates:

15mm Long-Thow Random Orbital Polisher:

- BSA-D5BP 5" Backing Plate (Installed)
- BSA-D6BP 6" Backing Plate

21mm Long-Thow Random Orbital Polisher:

- BSA-D5BP 5" Backing Plate
- BSA-D6BP 6" Backing Plate (Installed)

Secure Backing Plate:



CAUTION! Prior to use, it is recommended to use supplied Allen wrnech to ensure Allen bolt is secure.

Motor

Be sure your power supply agrees with the voltage markked on the nameplate. 120V/60Hz / 230V/50Hz means alternating current only. Voltage decrease of more than 10% will cause loss of pwer and overheating.

On/Off Switch



WARNING: To reduce the risk of injury, make sure the polisher is not resting on the workpiece when the switch is turned on.

To turn the polisher on, push the lever of the switch towards the body of the tool; if the polisher is to be locked in ON position, press button at the same time and keep it pressed while releasing lever, thus locking the switch. To turn the polisher off, release the lever or, if looked in On position, push the lever to release the lock button.

Electronic Speed Control

The polisher electronic speed control supply the following features:

Speed setting

The speed of the polisher can be set by rotating the speed dial to the desired setting for any speed between 2,200 and 5,200 orbits per minute (OPM).

Speed compensation

Incase of overloading the polisher, the electronic speed control will compensate and maintain the slected speed till a safe level. Exceeding this overload level may result in strong vibrations and tool overtemperature.

Soft start acceleration ramp

To avoid, kickback effect and compound splattering, the electronic speed control always supply a smooth starting acceleration ramp when the tool is turned on.

Accidental re-start protection

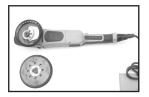
Incase of a sudden lack of main power supply, the electronic speed control prevents the re-start after the power supply restoring if the main switch is turned on. The polisher must be turned off and on again pushing the lever of the switch towards the body of the tool.

POWER TOOL SET-UP

WARNING: To reduce the risk of injury, turn unit off and disconnect it from power source before installing and removing accessories, before adjusting or when making repairs. Be sure the power switch is in "Off" position. An accidental start-up can cause injury.

WARNING: Never modify aby parts of the power tool. Damage or personal injury could result.

Installing New Backing Plate











With tool resting on its back, align backing plate hub with tool output shaft.

Caregully line up the squarted edge of the backing plate with squared edge of the orbital shaft.

Insert allen bolt and carefully thread into output shaft. (Do not cross-thread.)

Tighten bolt with supplied Allen wrench. Wih bolt bottomed out, securely tighten with a quarter turn.

Remove backing plate and insert supplied washer between backing plate hub and tool output shaft. Ensure backing plate hub is aligned with output shaft. Then follow backing plate installation instructions.

Handle Attachment Accessories

The power tool also includes two handle handle configurations. Turn unit off and disconnect it from power source prior to handle attachment installation.

D-Handle

This handle may offer additional user control and comfort.

- (a) Remove both threaded black caps on opposing sides by turning counter clockwise using a wide flat bladed screw driver.
- (b) Frimly grasp both sided of D-Handle attachement and silde over side-handle mounts.
- (c) Carefully thread supplied Allen bolts using supplied Allen wrench. Prior to tightening, select desired handle position.
- (d) Tighten Allen bolts with supplied Allen wrench.



Right-Angle Handle

This handle may be installed on either side of the tool. Depending on user prefernece, for added control and comfort.

- (a) Select handle position and remove black cap by turning counterclockwise sueing a wide flathead screwdriver.
- (b) Thread Right-Angle Handle attachment into machine and securely tighten.



Installing Buffing Pads And Usage Recommendations

- (a) Inspect buffing pads prior to installation.
- (b) DO NOT use torn of worn out pads.
- (c) Unplug power tool prior to buffing pad installation.
- (d) Cneter pod on backing plate and pres firmly around pad.
- (e) Never run machine when pad is not resing on the vehicle's surface.
- (f) Frequent cleaing of buffing pads is essential to reduce product build up, which can potentially lead to excessive pad weight and a subsequent increase in vibration.

Pad Maintenance:







Pad Cleaning Agent, Pad Conditioning Brush, Pad Cleaning Gun

- (a) Remove pad from machine.
- (b) Spray NANOSKIN Pad Cleaning Agent on the entire pad surface.
- (c) Agitate the pad surface with NANOSKIN Pad Conditioning Brush or NANOSKIN EVERGREEN Pad Cleaning Gun.
- (d) Allow pad to dry before use.

MAINTENANCE



WARNING: To reduce the risk of injury, turn unit off and disconnect it from power source before installing and removing accessories, before adjusting or when making repairs. Be sure the power switch is in "Off" position. An accidental start-up can cause injury.

Cleaning

- (a) Blow dirt and dust out of all air vents with clean dry compressed air at least once a week. The motor's fan will draw dust and residues inside the housing and excessive accumulated residue may reduce the tool's cooling capacity, shotening tooo life.
- (b) Never use solvents or other harsh chemicals for cleaning plastic and rubber parts. Use a cloth dampened only with water and mild cleaner.

Replacement Parts

Have your power tool serviced by a qualified repair shop using only identical replacement parts. This will ensure the safety of the power tool is maintained.

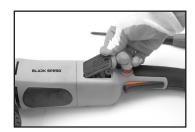
Failure To Start

- (a) Should your tool fail to start, check to make sure the prongs on the plug are making good contact wihtin an outlet. Also check for blown fuses or open circuit breakers in the line.
- (b) If power tool persists in not starting, unplug and inspect motor brushes for excessive wear. Replace if necessary.
- (c) Inspect power cord for cuts or shorts. Should excessive wear be identified, contact NANOSKIN and/or authorized distributors for replacement cords or service.

Carbon Brush Replacement

Brushes are wear itmes and normal wear is not covered under warranty. The power tool comes with a spare set of replacement brushes.







Remove brush side-port screws from both sides of tool using a small Phillips head screwdriver, turning counter-clockwise. Take out the side-port cover. Grasp brass pressure plates and retrieve carbon brushes from tool. Discard appropriately. Install replacement carbon brushes into brush port. Insert the brush side-port cover. Tighten side-port screw using Phillips head screwdriver.

PRODUCT USE

All statements, usage recommendations, and technical information contained in this instruciton manual are based on tests or development that NANOSKIN has deemed reliable. However, many factors beyond NANOSKIN's control can affect the use and performance of this power tool in a certain application, including conditions under which this power tool is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely in the user's knowledge and control, it is critical that the user evaluate this power tool to determine whether it is suitable for a particular purpose and the user's method of application.

WARRANTY

Complying with current applicable regulations and subject to more favorable conditions that could apply in different countries, this power tool is supplied with a 6 months warranty against manufacture defects from date of purchase. Only NANOSKIN original parts and accessories must be employed with the power tool.

Warranty Process

To invoke coverage under this warranty, purchaser must return the power tool, including the original proof of purchase (sales receipt), to NANOSKIN Car Care Products located at 14700 Radburn Ave, Santa Fe Springs, CA 90670. In the event the repairs are deemed non-warranty the cost of shipping the power tool to NANOSKIN and any associated charges with the return shipment to the purchaser shall be borne by purchaser.

Shipping

For tools to be repaired under 6 month warranty a return shipping label will be provided free of charge to the customer. All returns must be shipped using the provided label. NANOSKIN will not provide reimbursement for alternative shipping methods or items shipped on an alternate account. To obtain a return shipping label contact customer service at nanoskin@nanoskinusa.com. In the event a repair fails to qualify as a warranty issue the shipping will be invoiced to the customer as part of the parts and labor invoice.

Warranty Exclusions

- (A) NANOSKIN is not responsible for any damages or accidents caused by not abiding to this rule and the warranty shall terminate if non-original parts are employed.
- (B) Power tools that have been subjected to misuse (including but not limited to overloading and use not specified in the user's manual), neglect, faulty maintenance, alteration, damage caused by improper use of chemicals, repairs by unauthorized parties, or damage caused by normal "wear & tear", are not covered.
- (C) Replacement Parts Tools have a life expectancy, particularly when they are subjected to the rigors of a profes sional environment. There are components which simply do not last forever.

DISCLAIMER

Limitation of Liability. In no event shall the monetary liability of company exceed amounts that have actually been paid to company. Company shall not be liable for consequential, indirect, speical, or incidental damages under any circumstances, even if advised in advance of the possibility of such damages.



NANOSKIN CAR CARE PRODUCTS

Division of Total Import Solutions, Inc.

14700 Radburn Ave., Santa Fe Springs, CA 90670

www.nanoskinusa.com

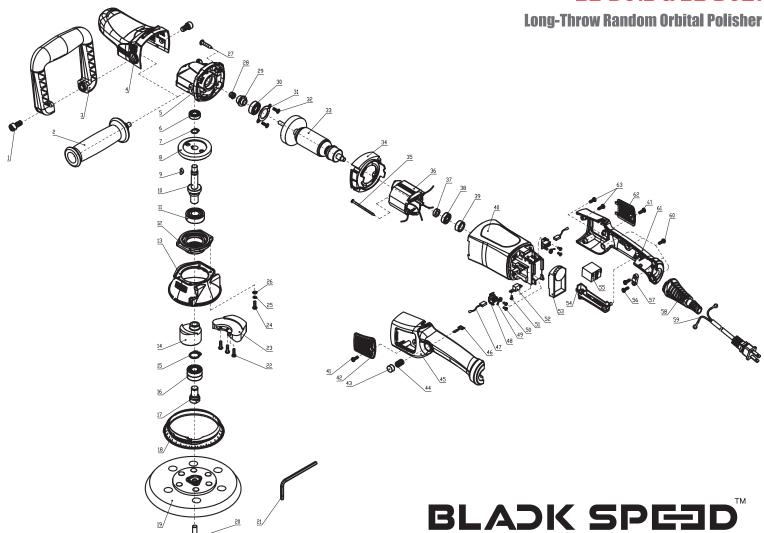
Telephone 1-877-707-6688

For Chemical Emergency: PERS – Day or Night

NORTH AMERICA: 1-800-633-8253 INTERNATIONAL: 1-801-629-0667



BS-D015 & BS-D021



Parts List

No.	Part Name	No.	Part Name	No.	Part Name	No.	Part Name
1	M8X26 hex bolt	17	Eccentric shaft	33	Rotor	49	Carbon brush coil spring
2	Right Angle Handle	18	Rubber dust cover	34	Windshield cover	50	M3X8 bolt
3	D-Handle	19	Backing Plate	35	M4X65 bolt	51	M3X8 bolt
4	Head cover	20	5/16"- 24 bolt	36	Stator	52	Constant speed sensor head
5	Gear Box	21	M5 hex wrench	37	607 bearing	53	Speed dial
6	606 bearing	22	Φ4X12 bolt	38	Magnet ring	54	Trigger
7	Ф10 snap ring	23	Eccentric block	39	Bearing sleeve	55	Switch
8	Large gear	24	M4X20 bolt	40	Motor housing	56	M4X12 bolt
9	3X10 shaft key	25	Φ4 spring washer	41	M4X10 bolt	57	Pressure plate
10	Output shaft	26	Φ4 flat washer	42	Left mesh cover	58	Cable sleeve
11	6201 bearing	27	M4X18 bolt	43	Trigger lock cap	59	Power cord
12	Front cover	28	M6 nut	44	Lock cap spring	60	M4X14 bolt
13	Protective cover	29	Small gear	45	Left switch handle cover	61	Right switch handle cover
14	Eccentric wheel	30	629 bearing	46	Trigger lock	62	Right mesh Cover
15	Ф12 snap ring	31	Bearing cover	47	Carbon brush	63	M4X18 bolt
16	6001 bearing	32	M4X10 bolt	48	Carbon brush holder		