

6MM AIR DIE GRINDER KIT INSTRUCTION MANUAL



Manufactured and packaged for SUPER CHEAP AUTO PTY LTD ABN 64 085 395 124
751 Gympie Road, Lawnton, Queensland 4501, Australia

BLACK RIDGE

6mm Air Die Grinder Kit Instruction Manual



12
Month
Warranty

Minimum
120LPM

PLU 340371

WARRANTY

This product is guaranteed against defects for a period of 12 months from date of purchase. This warranty is provided by Super Cheap Auto Pty Ltd ACN 085 395 124 (Supercheap Auto) of 751 Gympie Rd Lawnton QLD 4501 Ph (07) 3482 7500. Supercheap Auto will offer a repair, replacement product or store credit if the product is assessed as being defective during the warranty period.

To claim under this warranty, take this product to the Front Service Desk of your nearest Supercheap Auto store. For store locations, visit www.supercheapauto.com.au (AUS) or www.supercheapauto.co.nz (NZ). You will need your receipt or proof of purchase. Additional information may be requested of you to process your claim. Should you not be able to provide proof of purchase with a receipt or a bank statement, identification showing your name, address and signature may be required to process your claim.

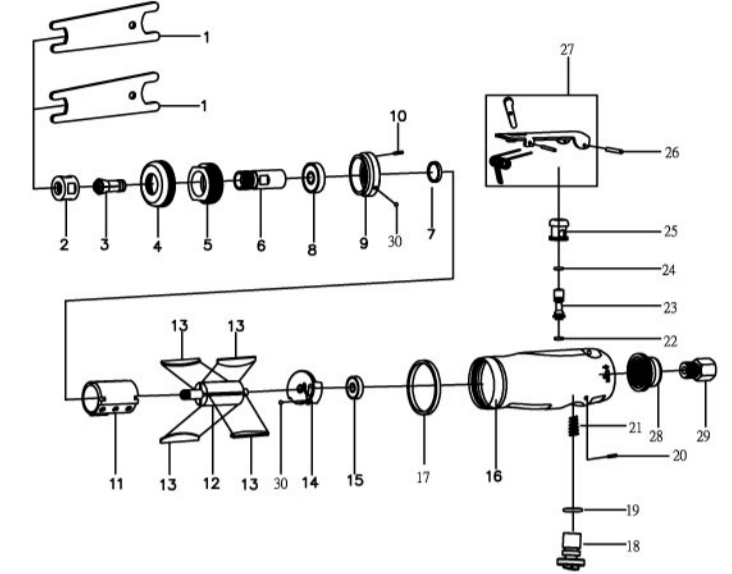
This product may need to be sent to the manufacturer to assess the defect before determining any claim. Faults or defects caused by product modification, misuse and abuse, normal wear and tear or failure to follow user instructions are not covered under this warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any expenses incurred relating to the return of this product to store will normally have to be paid by you. For more information contact your nearest Supercheap Auto store.

The benefits to the consumer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods and services to which this warranty relates.

Parts list



No.	Description	No.	Description
1	Double Ended Spanner	16	Housing
2	Collet Nut	17	Washer
3	Collet (1/4")	18	Air Regulator
4	Housing Cap	19	O Ring (P10)
5	Retainer	20	Pin (2.5x30)
6	Spindle	21	Spring
7	Washer	22	O Ring (3.6x2.4)
8	Ball Bearing (6006ZZ)	23	Throttle Valve
9	Front End Plate	24	O Ring (P4)
10	Pin (2.5x6)	25	Valve Bushing
11	Cylinder	26	Throttle Pin (3x23)
12	Rotor	27	Throttle Lever
13	Rotor Blade	28	Exhaust Diffuser
14	Rear End Plate	29	Inlet Bushing
15	Ball Bearing (626ZZ)	30	Steel Ball O2.5

Trouble Shooting

The following table lists the common operating system issues with problem and solutions. Please read the form carefully and follow it.

WARNING: If any of the following symptoms appear during your operating, stop using the tool immediately, or serious personal injury could result. Only qualified person or an authorized service center should perform repairs or replacement of tool.

Disconnect tool from air supply before attempting repair or adjustment. When replacing O-rings or Cylinder, lubricate with air tool oil before assembly.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but loses speed under load	<ul style="list-style-type: none"> Motor parts worn. 	<ul style="list-style-type: none"> Lubricating Air tool. Severe operating conditions may require more frequent lubrication.
Tool runs slowly. Air flows slightly from exhaust	<ul style="list-style-type: none"> Motor parts jammed with dirt particles Power regulator in closed position Air flow blocked by dirt. 	<ul style="list-style-type: none"> Check air inlet filter for blockage. Pour air tool lubricating oil into air inlet as per instructions. Operate tool in short bursts quickly reversing rotation back and forth where applicable. Repeat above as needed.
Tools will not run. Air flows freely from exhaust	<ul style="list-style-type: none"> One or more motor vanes stuck due to material build up. 	<ul style="list-style-type: none"> Pour air tool lubricating tool into air inlet. Operate tool in short bursts of forward and/or reverse rotation where applicable. Tap motor housing gently with plastic mallet. Disconnect supply. Free motor by rotating drive shank manually where applicable
Tool will not shut off	<ul style="list-style-type: none"> 'O' rings throttle valve dislodged from seat inlet valve. 	<ul style="list-style-type: none"> Replace 'O' ring.

Note: Repairs should be carried out by a qualified person.

Technical Data

Grinder cap.....	6mm (1/4")
Free speed.....	22,000rpm
Minimum air flow.....	120LPM
Operating pressure.....	90psi (6.2bar)
Air inlet size.....	1/4"
Air hose.....	3/8"ID

Important Safety Rules

- When grinding always wear safety goggles and an appropriate face mask or respiratory equipment.
- Always ensure machine is switched off before connecting to air supply.
- Disconnect any machine from the air supply before changing accessories and before servicing any type of machine.
- Always keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion and possible failure.
- Do not wear watches, rings, bracelets or loose clothing when using air tools.
- Do not overload the machine. Allow the tool to operate at its optimum speed for maximum efficiency.
- Do not increase the air pressure above the manufacturers recommended level, as excessive overload can cause the machine casing to split. Also this creates excessive wear on moving parts and possible failure.
- In the interests of safety and possible damage to the machine/operator, always ensure that the machine has stopped before putting it down after use.
- Always ensure that the work piece is firmly secured leaving both hands free to control the machine.
- Always ensure that the accessories are rated or designed for use with the machine. Before connecting the machine to the air supply, please make sure accessories are correctly and securely fastened.

Operating Instruction

Description

Lever lock throttle for safety. Air die grinder is ideal for grinding light weld grinding, porting and polishing applications and some woodworking applications. Durable, lightweight composite housing design also helps reduce vibration

Air supply

- Ensure air valve (or trigger) is in the "off" position before connecting to the air supply.
- You will require air pressure of 90psi, and air flow according to specification.
- WARNING!** Ensure the air supply is clean and does not exceed 90psi while operating the tool. Air pressure exceeding the recommended specification and unclean air will cause excessive wear and shorten the product life. This may be dangerous and may cause damage or personal injury.
- Drain the condensation from the air tank daily. Water in the air line will damage the tool.
- Clean air inlet filter weekly.
- Line pressure should be increased to compensate for unusually long air hoses (over 8 meters). The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.
- Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are secure.

Lubrication

An automatic in-line filter-regulator-lubricator is recommended (Fig4) as it increases tool life and keeps the tool in good working order. The in-line lubricator should be regularly checked and filled with air tool oil. Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

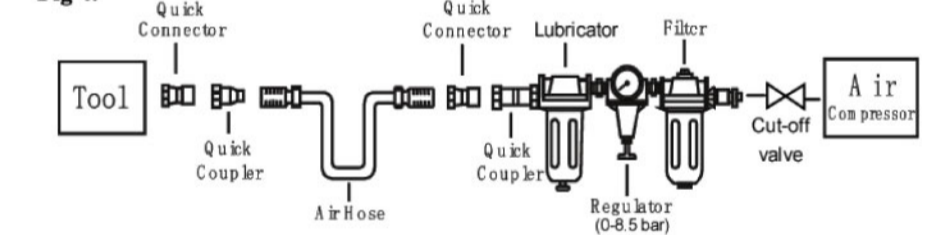
In the event that it becomes necessary to store the tool for an extended period of time, ensure it is lubricated generously. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

- It is most important that the tool should be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication, the tool will not work properly and parts will wear prematurely.
- Use only recommended lubricants, specially made for pneumatic applications. Substitutes may harm the rubber compounds in the tools O-rings and other rubber parts.

IMPORTANT!!!

If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day or after 2 hours work with 2 to 6 drops of oil, depending on the work environment, directly into the air inlet.

Fig 4.



Loading and operation

WARNING: Ensure you read, understand and apply safety instructions before use.

- Install the grinding bit into the air tool
- Connect the tool to the air hose.
- Press the trigger to operate the tool.
- The flow of air may be regulated by adjusting flow valve at the base of the handle.

DO NOT use any additional force upon the tool.

DO NOT allow tool to free run for an extended period of time as this will shorten its life. ONLY use attachments designed specifically for use with the die grinder.

Maintenance

WARNING: Disconnect wrench from air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts. Use genuine parts only. Non-authorized parts may be dangerous

- Lubricate the air tool daily with a few drops of air tool oil dripped into the air inlet
- Clean the tool after use. DO NOT use the tool if it is worn or damaged.
- Loss of power or erratic action may be due to the following:
 - Excessive drain on the air line. Moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy check the air supply.
 - Grit or gum deposits in the tool may also reduce performance. If your model has an air strainer (located in the area of the air inlet), remove the strainer and clean it.
- When not in use, disconnect from air supply, clean tool and store in a safe, dry, childproof location.