



4" ANGLE GRINDER

MODEL NO: CAT 52

PART No: 3110685

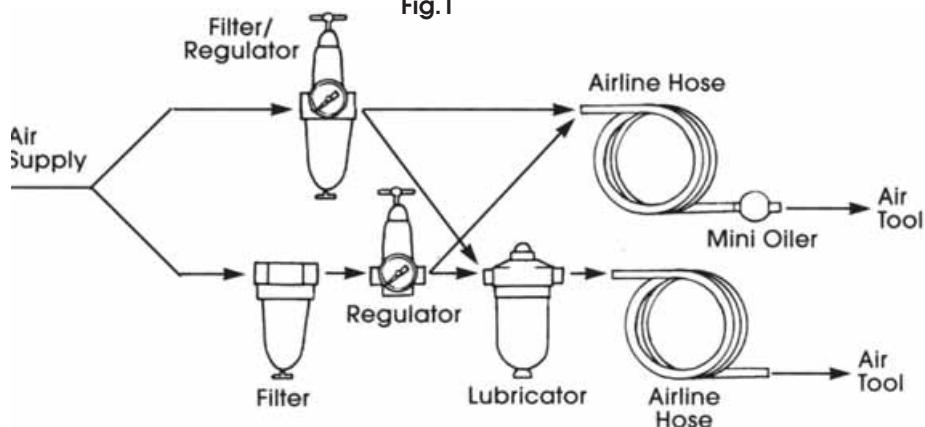
OPERATION & MAINTENANCE INSTRUCTIONS



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Fig.1



SPECIFICATIONS

Model: CAG52
Part Number: 3110685
Rated Wheel Capacity: 4" x 1/4"
(type 27 depressed center)
Free Speed: 12000 RPM
Recom. Air Pressure: 90 PSI
Ave. Air Consumption: 6 CFM
Spindle Thread size: 3/8" UNF
Air Inlet: 1/4"
Hose Size: 3/8" ID
Length: 8-3/4"
Weight: 3.1 lbs

Please note that the details and specifications contained herein are correct at the time of going to print. However CLARKE International reserve the right to change specifications at any time without prior notice. Always consult the machines data plate



Please read these instructions carefully before operating the tool

Thank you for purchasing this CLARKE Air 4" Angle Grinder.
Before using the device, please read this manual thoroughly and carefully follow all instructions given. This is for your own safety and that of others around you, and is also to help you achieve long and trouble free service from your new tool.

CLARKE GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not affect your statutory rights.

PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

ACCESSORIES

A wide range of Airline accessories is available, including Filter/Regulators, Lubricators, High Pressure Hoses from 5 to 100 Metres, etc. Contact your CLARKE dealer for further information, or CLARKE International Sales Department on 01992 565300

SAFETY PRECAUTIONS

IMPORTANT

Failure to follow these precautions could result in personal injury, and/or damage to property.

- When operating this tool, **ALWAYS** wear:
 - a. approved impact resistant SAFETY GOGGLES. (Eye glasses are NOT safety glasses)
 - b. a DUST MASK
 - c. EAR DEFENDERS
 - d. a good pair of INDUSTRIAL GLOVES
- ALWAYS** disconnect the tool when not in use, and before carrying out any maintenance
- ALWAYS** keep a safe distance between yourself and other people when using the tool.
- ALWAYS** maintain the tool with care. Keep it clean for best and safest performance.
- NEVER** wear ill fitting clothing, remove watches and rings.
- Quick change couplings should not be located at the tool. They add weight and could fail due to vibration.
- DO NOT** over-reach. Keep your proper footing and balance at all times.
- DO NOT** force or misuse the tool. It will do a better and safer job at the rate for which it was designed.
- DO NOT** abuse hoses or connectors. NEVER carry a tool by the hose, or yank it to disconnect from the air supply. Keep hoses away from heat, oil and sharp edges. Check hoses for leaks or worn condition before use, and ensure that all connections are secure.
- DO NOT** exceed 90 PSI at the tool.
- DO NOT** modify the tool in any way.
- DO NOT** remove any labels. Damaged labels should be replaced.
- This tool vibrates with use. Vibration may be harmful to your hands or arms. Stop using the tool if discomfort, a tingling feeling or pain occurs. Seek medical advice before resuming use.
- ALWAYS** use screens to protect people in the vicinity from flying debris.
- NEVER** point the tool at anyone.

AIR SUPPLY

Tools of this type, operate on a wide range of air pressures. It is recommended that air pressure to this tool does not exceed 90 PSI (6.1bar), at the tool when running. Higher pressure and unclean air, will shorten the tools' life because of faster wear, and could be a safety hazard.

Water in the air line will cause damage to the tool, ensure it is properly maintained at all times.

The recommended procedure to connect this tool to an air supply, is shown at fig. 1 on Inside front cover.

The air inlet used for connecting air supply, has a standard ¼" BSP thread.

Line pressure, or hose inside diameter, should be increased to compensate for unusually long air hoses (over 10m). Minimum hose diameter should be 6mm (¼") ID., and fittings should have the same inside dimensions.

ASSEMBLY

Attach Handle (Item 56), Screw on tightly, Do Not Overtighten, (No Tools Required).

With the air supply turned OFF, connect the hose of the Angle Grinder to your airline.

Your Grinder is now ready for use.

WARNING

Compressed air can be dangerous. Ensure that you are thoroughly familiar with all precautions relating to the use of compressors and compressed air supply.



OPERATING INSTRUCTIONS

MAINTENANCE

Before starting work drain any water from the air tank and blow condensation from the air line. Drain compressor more frequently in hot humid weather.

1. Ensure airline is disconnected from tool.
2. Remove Flange Nut (Item 54). Fit cutting wheel, ensure hole in wheel fits snugly over shoulder on flange (Item 52). Refit Flange nut finger tight, ensure shoulder on Flange Nut fits in hole on wheel.
3. Using wrenches supplied, fit wrench (without pins) onto grinder arbor to prevent turning, fit other wrench (with pins) into the two holes in the Flange Nut. Hold both wrenches firmly and tighten in clockwise direction. Remove wrenches.
4. Connect airline and turn air ON.
5. Hold firmly using both hands, right hand on motor body (Item 34) and left hand on handle (Item 56).
6. To switch on, push throttle lever lock (Item 15) forward, at the same time depress throttle lever. Allow grinder to reach full speed and stabilise before continuing.
7. Gently offer grinding wheel to work piece, DO NOT USE FORCE, allow the tool to do the work for which it was designed.

IMPORTANT

- ALWAYS** keep wheel guard square to work face, also DO NOT use side of wheel for grinding, this could cause wheel to shatter resulting in personal injury.
8. When finished grinding, with motor still running take wheel away from work, release throttle and wait for grinder to stop before carefully putting it down.

WARNING

When fitting wheels, always inspect for damage etc, **NEVER** use wheels if chipped or cracked.

Daily before use.

1. Drain water from air tank, air line and compressor.
2. Check and clean, if necessary, the air inlet gauze filter.
3. Pour a few drops of CLARKE Air Line Oil (approx 3cc), into the air inlet. This should be carried out regardless of whether or not an air line lubricator is used.
If an Air line lubricator is NOT used, this procedure should be repeated after every two to three hours of use.

If the grinder is to be stored, or is idle for longer than 24 hours, run a few drops of Clarke Air Line Oil into the air inlet, and run the tool for 5 seconds in order to lubricate the internal parts.

For lubricating the air motor when in operation, an air line lubricator should be used, with Clarke Air Line Oil, adjusted to 2 drops per minute.

Clarke Air Line Oil is available from your CLARKE dealer, part no. 3050825.

Be aware that factors other than the tool may effect its operation and efficiency, such as reduced compressor output, excessive drain on the airline, moisture or restrictions in the line, or the use of connectors of improper size or poor condition which will reduce air supply.

Grit or gum deposits in the tool may also reduce efficiency. This condition can be corrected by cleaning the air strainer and flushing out the tool with gum solvent oil, or failing this, the tool should be dis-assembled, thoroughly cleaned, dried and re-assembled.

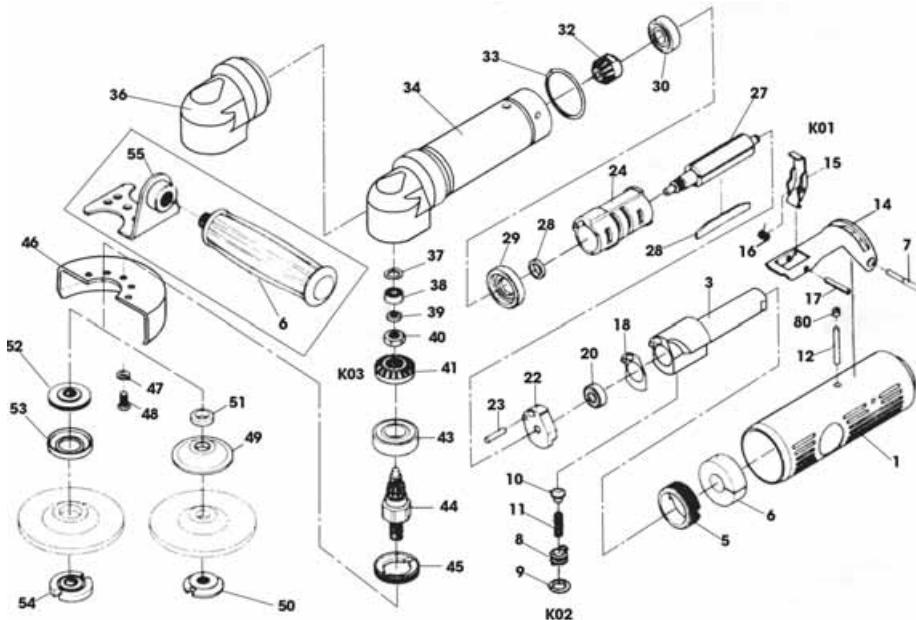
If the tool runs erratically or becomes inefficient, and the air supply is sound, dismantle the air motor and replace worn or damaged parts, or take the tool to your CLARKE dealer.

IMPORTANT:

The use of parts other than CLARKE replacement parts may result in safety hazards, decreased tool performance and may invalidate your warranty.



PARTS DIAGRAM



PARTS LIST

No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
1	AG-30001	Exhaust Deflector	1	34	AG-40034	Motor Housing	1
3	AG-30003	Inlet	1	36	AG-30036	Motor Housing Shield	1
5	AG-30005	Motor Lock Nut	1	37	WW-0010	Wave Washer	1
6	AG-30006	Muffler Felt	1	38	BB-06252	Ball Bearing	1
7	AG-30007	Throttle Lever Pin	1	39	AG-30039	Bearing Spacer	1
8	AG-30008	Throttle Valve Hsg Plug	1	40	AG-30040	Hexagon Nut	1
9	ORP-0100	'O' Ring	1	41	AG-40041	Bevel Gear	1
10	DG-14010	Ball Bearing	1	43	BB-62022	Ball Bearing	1
11	DG-14011	Throttle Valve Spring	1	44	AG-30044	Arbor	1
12	AG-30012	Throttle plunger	1	45	AG-30045	Bearing Cap	1
14	AG-30014	Throttle Lever	1	46	AG-30046	Center Weel Guard	1
15	DG-14027	Throttle Lever Lock	1	47	SW2-050A	Spring Washer	3
16	DG-14028	Spring (Lever Lock)	1	48	S4-5012A	Button Head Screw	3
17	SP-25220	Spring Pin	1	52	AG-30052	Flange	1
18	AG-30018	Rear End Plate Gasket	1	53	AG-30053	Flange Rubber Shield	1
20	BB-06062	Ball Bearing	1	54	AG-30054	Flange Nut	1
22	AG-30022	Rear End Plate	1	55	AG-30055	Handle Bracket	1
23	SP-25180	Spring Pin	1	56	AP-70047	Handle	1
24	AG-30024	Cylinder	1	-	AG-30057	Wrench (not shown)	1
26	AG-30026	Vane Packet	4	-	AG-30058	Wrench (not shown)	1
27	AG-30027	Rotor	1	59	AG-40059	Grinding Wheel	1
28	AG-30028	Spacer	1	60	DG-14045	Plunge Cap	1
29	AG-30029	Front End Plate	1	K01	AG-40K01	Throttle Lever Kit	1set
30	BB-60002	Ball Bearing	1	K02	AG-40K02	Throttle Valve Kit	1set
32	AG-40032	Bevel Pinion	1	K03	AG-40K03	Bevel Gear Kit	1set
33	AG-30033	'O' Ring					