

3/8"REVERSIBLE AIR DRILL

MODEL NO: CAT214

PART NO: 3110881

OPERATING & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0621

INTRODUCTION

Thank you for purchasing this CLARKE Reversible Air Drill.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

SPECIFICATION

MODEL NO	CAT 214
Min. Hose Size (ID)	3/8" (10 mm)
Chuck Size	1.5 - 10 mm
Operating Air Pressure	90 psi (6.2 bar)
Air Consumption	6 cfm (170L/min)
Max Speed	1800 rpm
Air Inlet Size	1/4°BSP
Sound Pressure Level (LpA dB)	86.5 dB(A)
Sound Power Level (LwA dB)	97.5 dB(A)
Vibration Levels	Less than 2.5 m/s ²
Dimensions (L x W x H)	190 x 42 x 144 mm
Weight	1.18 kg

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required 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.

GENERAL SAFETY RULES



CAUTION: FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY, AND/OR DAMAGE TO PROPERTY.

WORK ENVIRONMENT

- 1. Keep the work area clean and tidy.
- Dress appropriately DO NOT wear loose clothing or jewellery. Tie long hair out of the way.
- 3. Keep children and visitors away Do not let children handle the drill.
- 4. **DO NOT** operate the drill where there are flammable liquids or gases.
- 5. Keep the air supply hose away from heat, oil and sharp edges.
- 6. **DO NOT** fit the drill to any stand or clamping device that may damage it.

USE

- 1. Stay alert and use common sense **DO NOT** operate the drill when you are tired or under the influence of alcohol, drugs or medication.
- 2. **ALWAYS** wear eye protectors when using the drill eye protectors must provide protection from flying particles from the front and the side.
- 3. **ALWAYS** wear ear protectors when using the drill.
- 4. **DO NOT** overreach keep proper footing and balance at all times.
- 5. **NEVER** use any type of bottled gas as a source of power for the drill.
- DO NOT connect the air supply hose with your finger on the trigger of the drill.
- 7. **DO NOT** exceed the maximum pressure for the drill 90 psi / 6.2 bar.
- 8. Check hoses for leaks or worn condition before use and ensure that all connections are secure.
- DO NOT use the drill for any other purpose than that described in this manual.
- 10. **DO NOT** carry out any alterations or modifications to the drill.
- 11. **ALWAYS** disconnect from the air supply when:
 - Performing any maintenance
 - The drill is not in use.

- The drill will be left unattended.
- Moving to another work area.
- Passing the drill to another person.
- 12. **NEVER** use the drill if it is defective or operating abnormally.
- 13. The drill should be serviced at regular intervals by qualified service personnel.
- 14. **AVOID** damaging the drill for example by applying excessive force.
- 15. **ALWAYS** maintain the drill with care. Keep it clean for the best and safest performance.
- 16. Quick change couplings should not be located at the drill. They add weight and could fail due to vibration.
- 17. **DO NOT** force or misuse the drill. It will do a better and safer job at the rate for which it was designed.
- 18. **DO NOT** remove any labels. Damaged labels should be replaced.
- 19. This drill vibrates with use. Vibration may be harmful to your hands or arms. Stop using the drill. if discomfort, a tingling feeling or pain occurs. Seek medical advice before resuming use.

TRANSPORT

- 1. **NEVER** carry the drill by the air supply hose.
- 2. **NEVER** carry the drill with your finger on the trigger.

STORAGE

- When not in use the drill must be disconnected from the air supply and stored in a dry place out of the reach of children (preferably in a locked cabinet).
- 2. **AVOID** storing the drill in environments where the temperature is below 0°C.

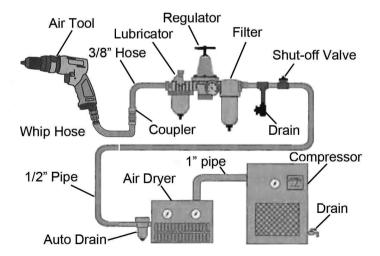
THE COMPRESSED AIR SUPPLY

AIR SUPPLY REQUIREMENTS



WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF COMPRESSORS AND COMPRESSED AIR SUPPLY.

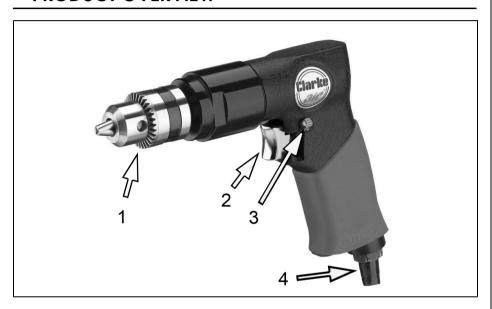
- Use only clean, dry, regulated compressed air as a power source.
- Air compressors used with the tool must comply with the appropriate UK/EU Safety Directives.
- A build-up of moisture or oil in the air compressor will accelerate
 wear and corrosion in the tool. ensure any moisture is drained from
 the compressor daily and the inlet filter is kept clean.
- If an unusually long air hose (over 8 metres), is required, the line
 pressure or the hose inside diameter may need to be increased.
- The air hose must be rated at least 150% of the maximum operating pressure of the tool.



 A typical air line layout is shown above. If an automatic in-line filter/ regulator is used, it will keep the tool in good condition, but should be regularly checked and topped up with oil. SAE 10 oil should be used, and the lubricator adjusted to approx 2 drops per minute.

- The minimum hose diameter should be 3/8"(10mm) ID and fittings should have the same internal dimensions.
- Never exceed the maximum operating pressure for the tool. It is recommended that air pressure to this tool does not exceed 90 psi at the tool when running. Higher pressures and unclean air will shorten the life of the tool due to faster wear and is a possible safety hazard.

PRODUCT OVERVIEW



NO	DESCRIPTION	NO	DESCRIPTION
1	Chuck	3	Forward/reverse control
2	Trigger	4	1/4" BSP female air inlet

CONTENTS

- 1 x 3/8" Reversible air drill
- 1 x Chuck Key
- 1 x Oil bottle
- 1 x Air inlet snap connector

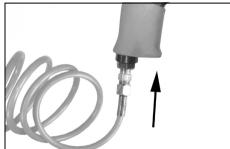
BEFORE USE



WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF AIR COMPRESSORS AND COMPRESSED AIR SUPPLY.

NOTE: Ensure the compressor is turned off.

- 1. If required, connect an in-line mini oiler to the tool.
 - A mini oiler helps to prolong the life of the air tool. Remove the oil fill screw from the side of the mini oiler and fill with Air-line Oil available from your CLARKE dealer. Replace the screw before using the tool.



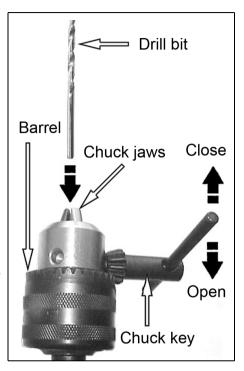
- 2. If a mini-oiler is not being used, run a few drops of oil through the tool before use. It can be entered through the inlet strainer or via the hose at the nearest connection to the air supply.
- 3. Connect a suitable hose as shown.
- 4. Connect the other end of the hose to the compressor.
- Turn on the air supply and check for air leaks. Rectify any found before proceeding.
- 6. Your air tool is now ready for use.

You can fit a whip hose with a quick fit coupling if required (available from your dealer.)

OPERATION

INSERTING/REMOVING THE DRILL BIT

- Open the chuck jaws by inserting the chuck key in one of the holes in the chuck and turning it as shown.
- Make sure that the head of the chuck key is located on the barrel of the chuck.
- Turn the chuck key until the chuck jaws are open sufficiently to take the drill bit.
- 4. Place the drill shank into the jaws of the chuck.
- Close the chuck jaws and tighten to grip the drill bit by turning the chuck key as shown.
- Make sure that the chuck jaws are fully closed and that the drill bit is held firmly.
- 7. Your air drill is now ready for use.



OPERATING THE AIR DRILL



WARNING: MAKE SURE THAT THE CHUCK KEY HAS BEEN REMOVED BEFORE USING THE DRILL.

- 1. Squeeze the trigger to start the drill.
 - Lightly position the drill bit on the workpiece and gently squeeze the trigger.
 - Once the drill is cutting and up to speed, apply a steady pressure to drill into the workpiece.
- 2. Release the trigger to stop.
- 3. Always ensure the drill has stopped before putting it down.

SETTING FORWARD/REVERSE

- 1. Ensure the drill has stopped before selecting either forward or reverse.
- Set the drill to the forward (drilling) mode by moving the lever to the position marked F.
- 3. Move to the R (reverse) position to withdraw.



DISCONNECTING THE AIR SUPPLY

DO NOT disconnect the air supply hose until the compressor has been shut down and the compressed air released.

- 1. Refer to the compressor instruction manual for the procedure to shut down and release the compressed air.
- 2. Once the pressure has been released, disconnect the air supply hose from the air drill.

Store the tool safely in its box in a dry, secure environment.

MAINTENANCE



WARNING: MAKE SURE THAT THE DRILL IS DISCONNECTED FROM THE AIR SUPPLY BEFORE STARTING ANY CLEANING OR MAINTENANCE PROCEDURES.

DAILY

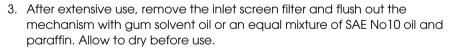
- Before use, drain water from the air tank, air line and compressor.
- Pour a few drops of airline oil into the air inlet. This should be carried
 out regardless of whether or not an in-line mini oiler is used. If an inline mini oiler is not used, this procedure should be repeated after
 every two to three hours of use.

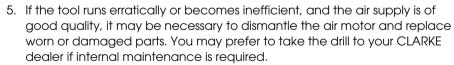
WEEKLY

 Check the air inlet screen filter for blockage and clean if necessary.

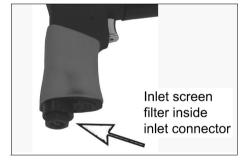
CLEANING

- 1. Keep the body of the tool clean and free from debris.
- 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 disassembled, thoroughly cleaned, dried and reassembled.





This air tool has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully (refer to page 11-Troubleshooting), you encounter problems, take the unit to your local CLARKE dealer.



TROUBLESHOOTING

SYMPTOM	PROBLEM	SOLUTION	
Tool runs at normal speed but slows down under any load.	 Excessive pressure on drill. Motor parts worn. Worn or sticking mechanism due to lack of lubricant. 	1. Reduce the force applied to the drill. 2. Return to Clarke dealer for repair. 3. Drip air tool lubricating oil into air inlet. Allow oil to soak moving parts before using.	
Tool runs slowly. Air flows weakly from exhaust.	1. Motor parts jammed with gum/dirt. 2. Regulator in closed position. 3. General airflow blocked by dirt.	Examine inlet air filter for cleanliness. Adjust regulator to open position. Operate tool in short bursts.	
Tool will not run. Air flows freely from exhaust.	Motor vanes stuck due to buildup of foreign material.	 Disconnect air supply and rotate tool assembly manually. Try operating tool in short bursts. Tap motor housing gently with a rubber mallet. Drip a few drops of air tool lubricating oil into air inlet to soak moving parts. 	
Tool will not shut off.	Throttle O-rings damaged or ill-fitting in seat.	Return to Clarke dealer for repair.	

PERFORMANCE

Please note 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 air-line, or the use of connectors of improper size or poor condition which will reduce air supply.

STORAGE

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

When not in use, disconnect from air supply, clean & store in a safe, dry place.

ACCESSORIES

A wide range of accessories is available including filter/regulators, lubricators, high-pressure hoses (5 to 50 metres) etc.

Contact your CLARKE dealer for further information or CLARKE International Service Department on 01992 565333.

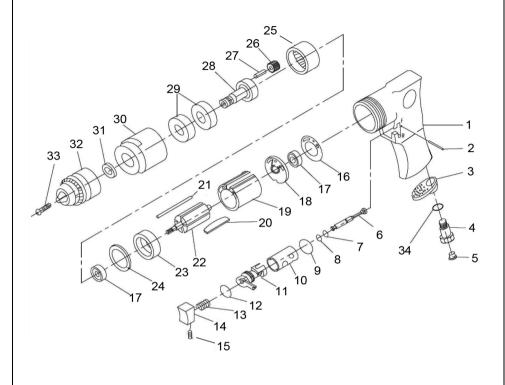
**Clarke Air Line Oil (part no. 3050825) is available from your CLARKE dealer.

COMPONENT PARTS

NO	ITEM
1	Housing
2	Bolt 3 x 24
3	Exhaust deflector
4	Air Inlet
5	Dust guard cover
6	Pin
7	O-ring 4 x 2
8	O-ring 4 x 1.1
9	O-ring 12 x 3
10	Bushing
11	Reversing lever
12	O-ring 11.5 x 1.8
13	Spring
14	Trigger
15	Bolt M4 x 8
16	Sealing washer
17	Bearing

NO	ITEM
18	End plate
19	Cylinder
20	Rotor blade
21	Steel wire
22	Rotor
23	Front plate
24	Washer
25	Gear wheel
26	Idle gear
27	Pin
28	Gear shaft
29	Bearing
30	Clamp nut
31	Washer
32	Chuck 3/8"
33	Bolt M5 x 16
34	O-ring 10.6x1.8

COMPONENT PARTS



DECLARATION OF CONFORMITY





Hemnali Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following statuary requirements:

Supply of Machinery (Safety) Regulations 2008.

The following standards have been applied to the product(s):

EN ISO 11148-3:2012.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

This product was placed onto the market: 2021.

Product Description:

3/8" Reversible Air Drill

Model number(s):

CAT214

Serial / batch Number:

3110881 23/06/2021

Date of Issue: Approval Body:

N/A

Signed:

J.A. Clarke Director

CAT214 UKCA DOC 061621.doc

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Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

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