

# Clarke®

## **METALWORKER**



**TUBE ROLLER**  
MODEL NO: CTR1

PART NO: 7610960

**OPERATION & MAINTENANCE  
INSTRUCTIONS**

ORIGINAL INSTRUCTIONS

DL0223

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## INTRODUCTION

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Thank you for purchasing this CLARKE Tube Roller.

Before attempting to use the tube roller it is essential that you read this manual thoroughly and carefully follow all instructions given. In doing so you will ensure the safety of yourself and that of others around you and you can also look forward to the product giving you long and satisfactory service.

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## FUNCTIONS

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1. This tool is intended to bend mild steel, copper and aluminum tubing. It can be used for bending exhaust pipes, water pipe and electrical conduit. **DO NOT** bend plastic or PVC pipe with this tool.
2. This tool includes 6 rollers: 3 rollers for round tube and 3 rollers for square tube. If the upper roller is for round tube, then the lower roller must be for round tube. If the upper roller is for square tube then the lower roller must be for square tube. **DO NOT** mix the use of round and square rollers.

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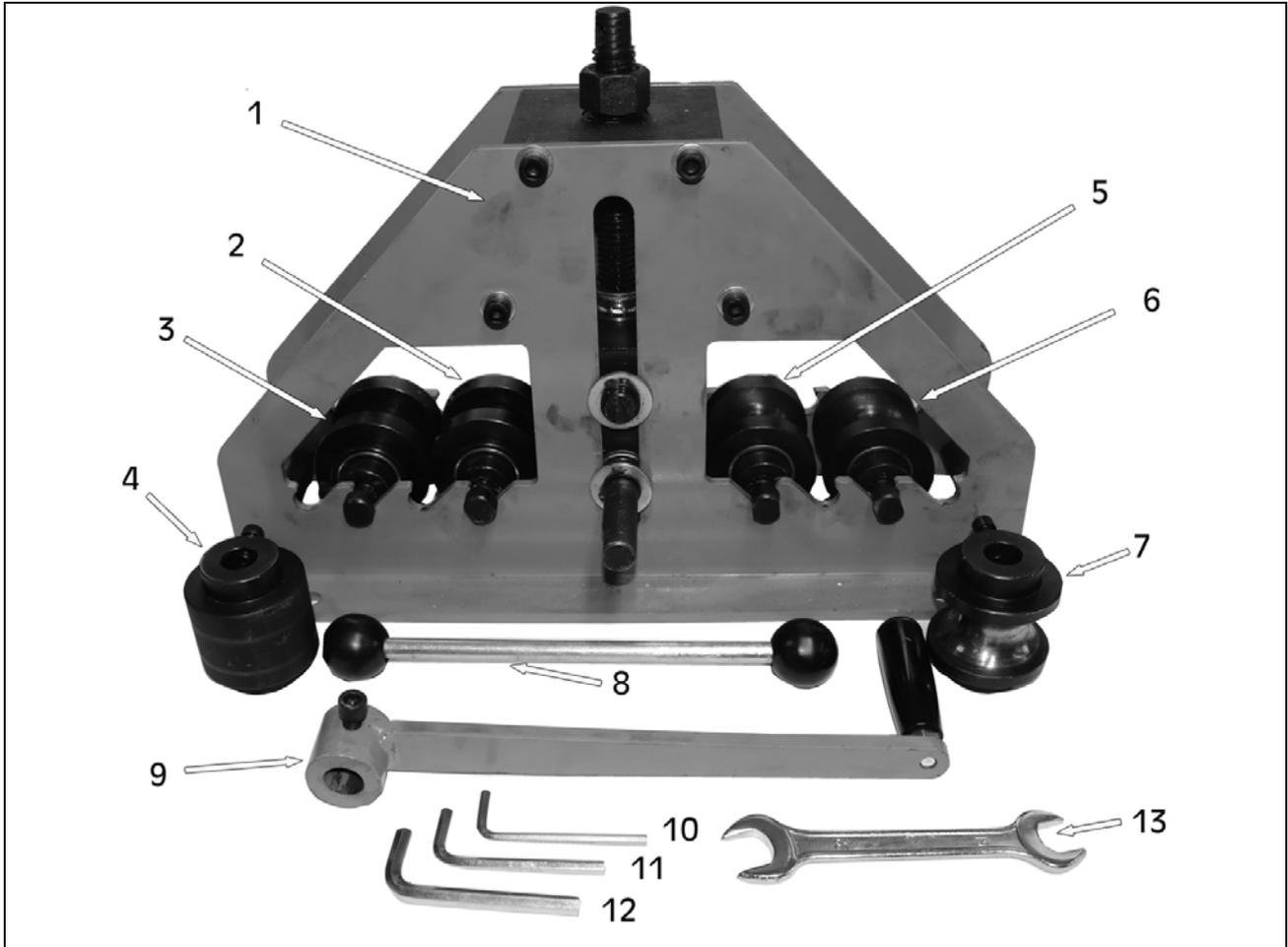
## SAFETY PRECAUTIONS

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- Due to the weight of the tube roller the help of an assistant may be beneficial during unpacking or when moving it around.
- **ALWAYS** operate on a suitably strong bench with adequate light.
- **ALWAYS** check for signs of cracked welds or any other structural damage before starting work. **DO NOT** operate if any of these conditions exist. Have repairs made only by a CLARKE service centre.
- The components of this tube roller are designed to withstand the rated capacity. **DO NOT** substitute any other components or exceed the rated capacity.
- **ALWAYS** ensure the workpiece is secure before applying pressure.
- **DO NOT** allow anyone who is unfamiliar with this tool to use the tube roller unless they are under direct supervision.
- **ALWAYS** ensure the work piece is properly positioned.
- **ALWAYS** keep hands and fingers away from parts that may pinch or shift.
- **NEVER** use extension tubes to increase the length of the handle. Excessive effort can cause damage and/or accidents.

# UNPACKING

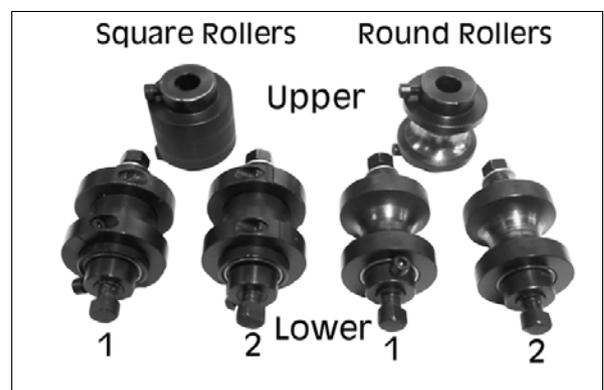
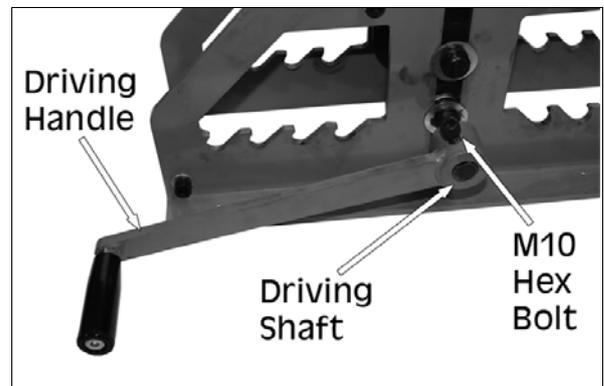
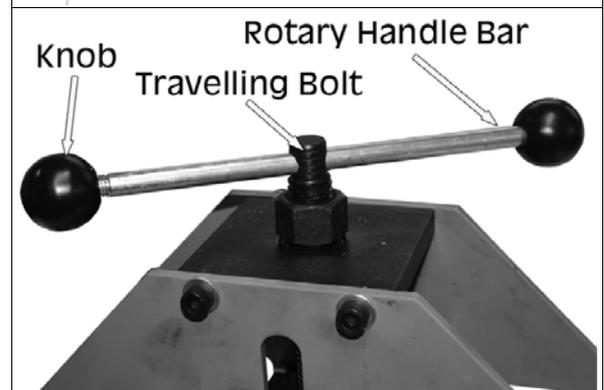
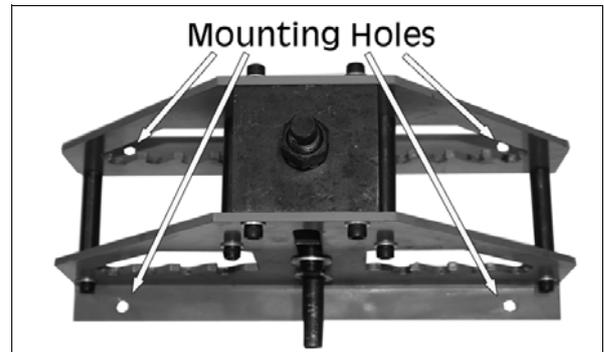
Ensure the product suffered no damage during transit and that all items are present. Should any loss or damage become apparent, please contact your CLARKE dealer immediately. The following items are supplied.



NO	DESCRIPTION	NO	DESCRIPTION
1	Main Body	8	Rotary Handle Bar
2	Lower Roller (Square 1)	9	Driving Handle
3	Lower Roller (Square 2)	10	Hex Key 5mm
4	Upper Roller (Square)	11	Hex Key 6mm
5	Lower Roller (Round 1)	12	Hex Key 8mm
6	Lower Roller (Round 2)	13	Spanner 22mm
7	Upper Roller (Round)		

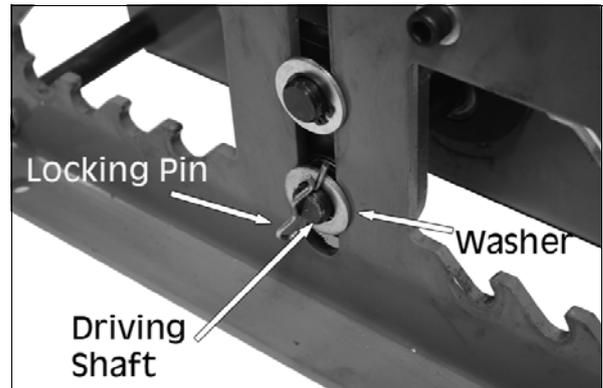
# ASSEMBLY

1. To bench mount, choose an appropriate work bench for mounting. The workbench should be solid, level and strong enough to support the weight of the tool, the work material and pressure applied to the tool during application.
2. Unscrew the knob on one end of the Rotary Handle Bar and feed the Bar through the hole in the top of the Travelling Bolt and screw the knob back on the bar.
3. Mount the Driving Handle onto the Driving Shaft. Secure the handle in place using the M10 x 25 Hex Bolt. Be sure the Driving Handle and Driving Shaft turn freely, then tighten the hex bolt securely using the 6mm hex key provided.
4. Select the correct rollers to match the tubing type (round or square) you will be working with, see 'Changing Roller Dies' on Page 5.

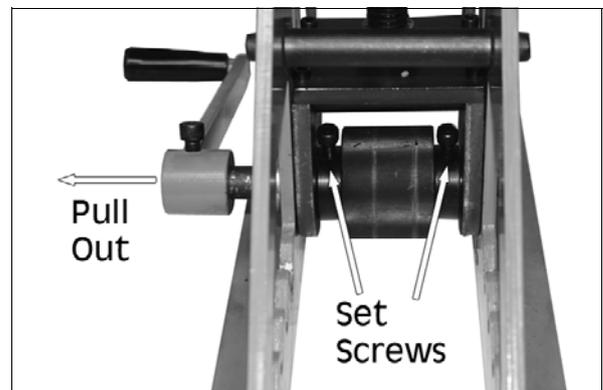


# CHANGING ROLLER DIES

1. Remove the Locking Pin and Washer from the Driving Shaft.

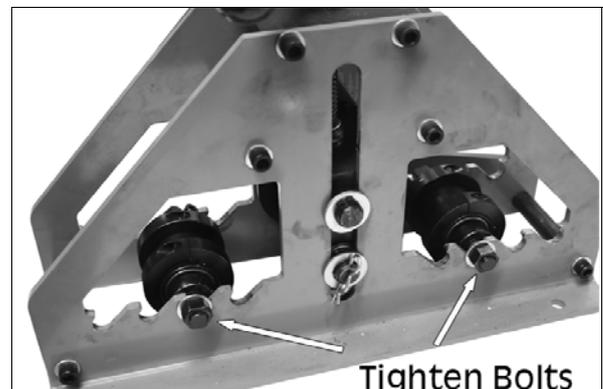


2. Using the 6mm Hex Key, loosen the Set Screws on the Upper Roller, then pull the Driving Shaft out the Side Wall and replace the Upper Roller.
3. Tighten the Set Screws on the Upper Roller and replace the Washer and Locking Pin.



4. Choose the correct Lower Rollers for your workpiece (round or square) and place them in the appropriate grooves on the tool, making sure that the rollers are in the corresponding grooves either side of the driving shaft.

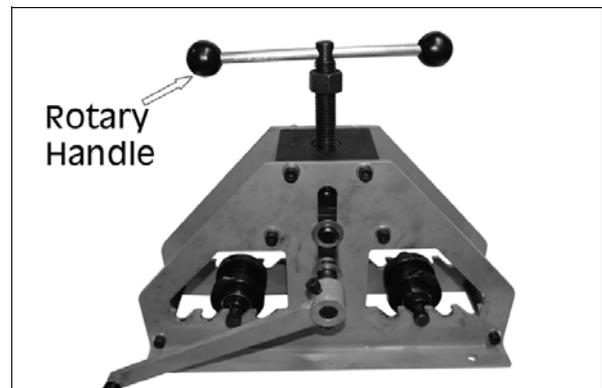
**NOTE:** There are 4 lower roller position grooves on each side of the tool. Placing the rollers nearer to the centre of the tool will give you a tighter bend radii.



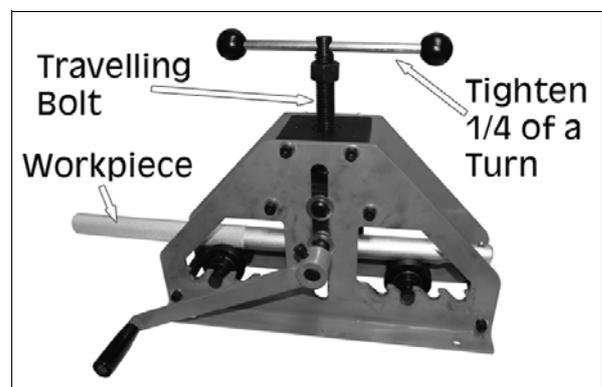
5. Lock the Lower Rollers in place by tightening the bolt on the side of the rollers using the 22mm spanner provided.

# OPERATION

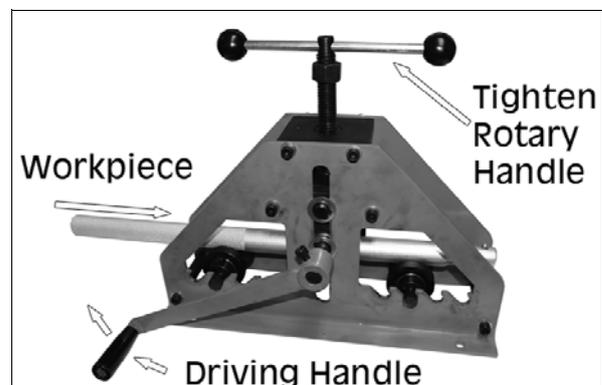
1. Turn the Rotary Handle on top counter-clockwise, which will raise the Upper Roller.



2. After raising the bottom edge of the Upper Roller above the top edges of the Bottom Rollers, place the work piece into the tools cutouts of the rollers until it is contacting all three rollers, then using the Rotary Handle to tighten the Travelling Bolt down by a 1/4 of a turn to put light pressure on the tubing.

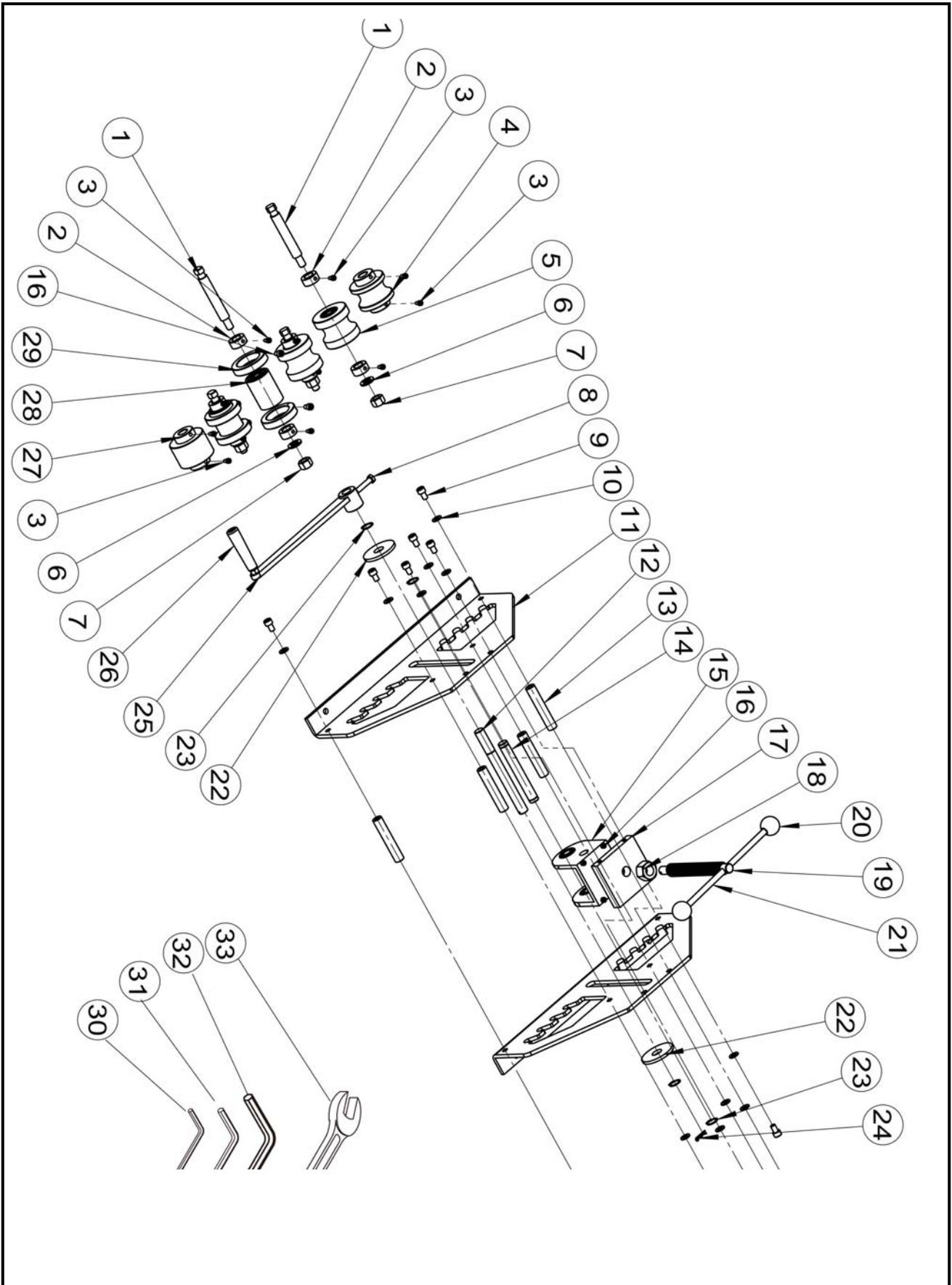


3. Facing the Driving Handle, begin forming by feeding your tubing into the left hand side of the tool while turning the Driving Handle clockwise and tightening down gently with the Rotary Handle.



4. When creating tighter radii, you may need to spiral your work piece slightly to clear the body of the tool. This can easily be flattened out after completion.

# EXPLODED DIAGRAM



## PARTS LIST

1	Bottom Roller Shaft
2	Bush
3	Hex Bolt M8 x 20
4	Upper Roller (Round)
5	Bottom Roller (Round)
6	Washer D16
7	Screw Nut M14
8	Hex Bolt M10 x 25
9	Hex Bolt M10 x 35
10	Washer D10
11	Side Wall
12	Driving Shaft
13	Support Shaft
14	Travelling Shaft
15	Upper Roller Housing
16	Hex Bolt M6 x 12
17	Support Plate

18	Screw Nut M24
19	Travelling Bolt
20	Rotary Handle Bar
21	Rotary Handle Shaft
22	Washer D20
23	Spring Washer
24	Locking Pin
25	Driving Handle
26	Driving Handle Bar
27	Upper Roller (Square)
28	Lower Roller (Square)
29	Bottom Roller Ring
30	Hex Key 5mm
31	Hex Key 6mm
32	Hex Key 8mm
33	Spanner 22mm

## 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 effect your statutory rights.

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