Clarke®

STRONG-ARM



30 TONNE HYDRAULIC PRESS

MODEL NO: CSA30FPC

PART NO: 7615204

OPERATION & MAINTENANCE INSTRUCTIONS

UK CA | CE

ORIGINAL INSTRUCTIONS

DL0726

INTRODUCTION

Thank you for purchasing this CLARKE 30 Tonne Hydraulic Press.

Before attempting to operate the machine, 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 press giving you long and satisfactory service.

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.

SAFETY SYMBOLS

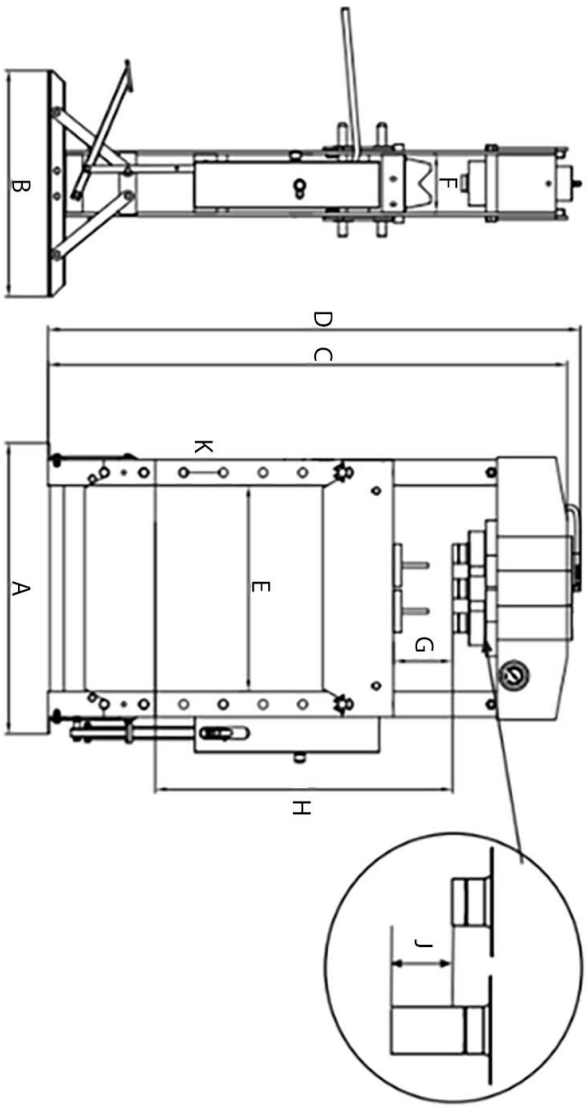
	Hazard: shattered workpiece		Hazard: crushed hands
	Wear Safety Shoes		Wear safety glasses
	Read instruction manual before use		Wear protective gloves

The above safety symbols appear on the product.

SAFETY PRECAUTIONS

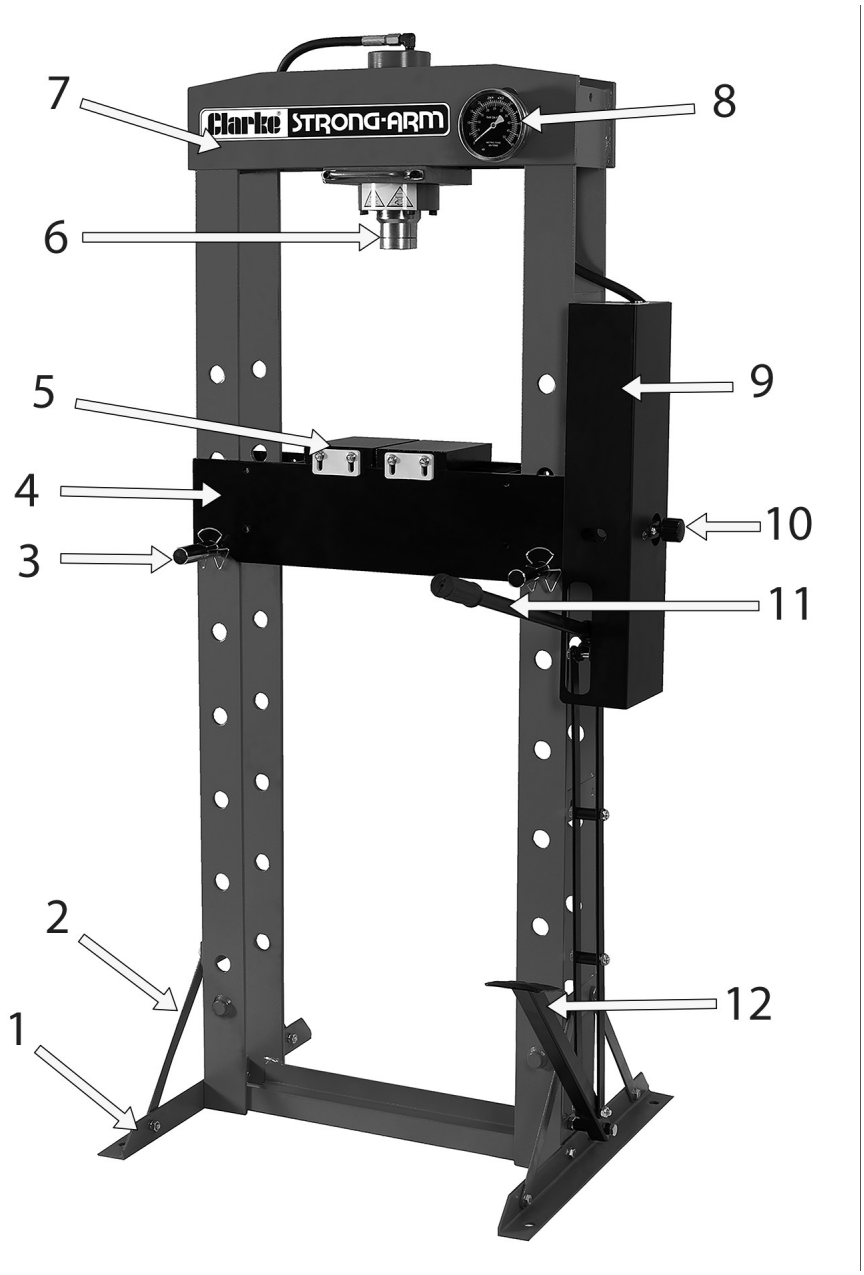
- Due to the weight of the press, lifting equipment and the help of an assistant will be required during installation. Secure the press to a firm level floor using suitable anchor bolts (not supplied).
- Before starting work, check for cracked welds, loose or missing bolts, a damaged screen (if fitted), or any structural damage. **DO NOT** operate if any of these conditions exist. Have repairs made only by your service centre.
- Before work, always ensure that hydraulic hoses and couplings are completely sound.
- **NEVER** tamper with the press components or modify them. The safety valve is calibrated and sealed at the factory; do not attempt to change the setting.
- Use only the recommended hydraulic oil, CLARKE HP 32 Hydraulic Oil, Part No. 3050830
- The components of this press are designed to withstand the rated load. **DO NOT** substitute any other components or exceed the rated load of the press.
- Before applying pressure, ensure the workpiece is firmly secure and stable.
- **ALWAYS** clean up spills of hydraulic oil immediately as this can be dangerous in a workshop environment.
- **DO NOT** let any person who is unfamiliar with hydraulic presses use the press unless they are under direct supervision.
- Keep children and unauthorised personnel away from the work area.
- **ALWAYS** position the (optional) safety screen directly front of the workpiece.
- **ALWAYS** apply the load under the centre of the ram. Offset loads can damage the ram and may cause the work piece to be ejected.
- **ALWAYS** ensure the workpiece is properly supported by the press bed.
- When using accessories such as pressing plates, be certain they are centered below the ram and are in full contact with the bed.
- Parts being pressed may shatter or be ejected from the press. Always use adequate guards, and wear eye protection and protective clothing when using this press.
- **Keep hands and fingers away from parts that may pinch or shift.**
- **NEVER** use extension tubes to increase the length of the pump handle. Excessive effort can cause damage and/or accidents.
- Wear approved impact safety goggles and heavy duty work gloves.
- Failure to heed these warnings may result in damage to the equipment, or serious personal injury.

TECHNICAL SPECIFICATIONS

Rated Load	30 Tonne
Ram Shaft Diameter	54 mm
Net Weight	135 kg
Ram travel per stroke	4.54 mm
No of strokes to full extension	31
Pressure Gauge type	Oil Filled (Accuracy class 2.5)
Length of Handle	930 mm
Pump Oil Capacity	1200ml (HP 32)
Dimensions	
A - Base Width - 750 mm	
B - Base Depth - 660 mm	
C - Height to Top of Frame - 1720 mm	
D - Height to Top of Hydraulic Hose - 1780 mm	
E - Operating Width - 490 mm	
F - Frame Width - 150 mm	
G - Top of Bed at Highest Position to Ram - 55 mm	
H - Top of Bed at Lowest Position to the Ram - 1350 mm	
J - Ram Travel - 150 mm	
K - Distance Between the Holes in the Centre - 135 mm	

OVERVIEW

Ensure the press and its components suffered no damage during transit and that all components are present. Should any loss or damage become apparent, please contact your CLARKE dealer immediately.



A	Base Supports
B	Stay Bars
C	Bed Support Pins
D	Pressing Bed
E	Bed Blocks
F	Ram cylinder

J	Frame with pump assembly
K	Pressure Gauge
L	Pump assembly
M	Control Knob
N	Pump Handle
P	Foot Pedal

ASSEMBLY

WARNING: DUE TO THE WEIGHT OF THE PRESS, LIFTING EQUIPMENT OR THE HELP OF AN ASSISTANT WILL BE REQUIRED DURING INSTALLATION.

TOOLS REQUIRED

- Wrenches & sockets to suit M10/M12/M16 nuts/bolts or an adjustable wrench
- Spanners to suit pressure gauge/hydraulic hose connections
- Hexagonal key set
- PTFE tape

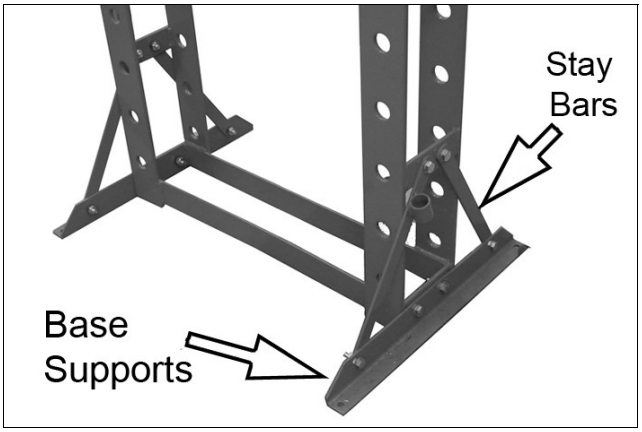
LOCATING THE PRESS

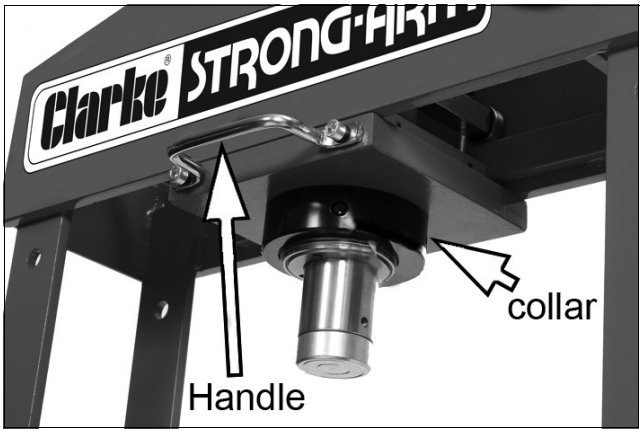
The press must be firmly secured to a firm and level floor using expansion bolts (not supplied). Holes are provided in the feet for this purpose.

Do not locate your press where it will be open to the elements, as severe weather conditions will damage the hydraulic parts.

ASSEMBLY PROCEDURE

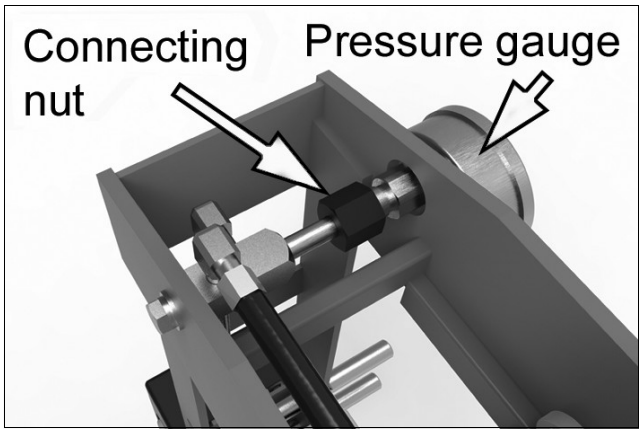
1. With the help of an assistant, attach the base supports to the frame using the nuts, bolts and washers.
2. Add the stay bars to each side and bolt into place.
3. With the help of an assistant if required, lift the frame assembly upright and manoeuvre it to its intended location in the workshop.
4. Install the ram by passing it through the top carriage and securing with the retaining collar.
5. Fit the carriage positioning handle to the front of the carriage using the hex bolts as shown.



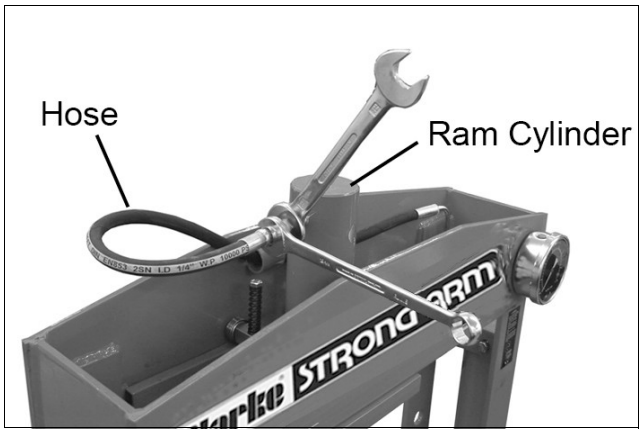


6. Remove the travel plug and install the pressure gauge.
7. Fit the gauge through the frame and secure with the nut supplied.

- We recommend sealing all threads with PTFE tape where hydraulic oil is to be contained. Take care not to let any oil escape while connecting the hoses.

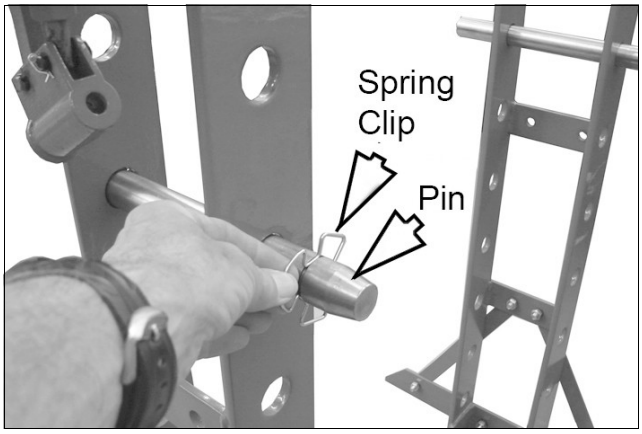


8. Connect the ram hose to the ram cylinder.

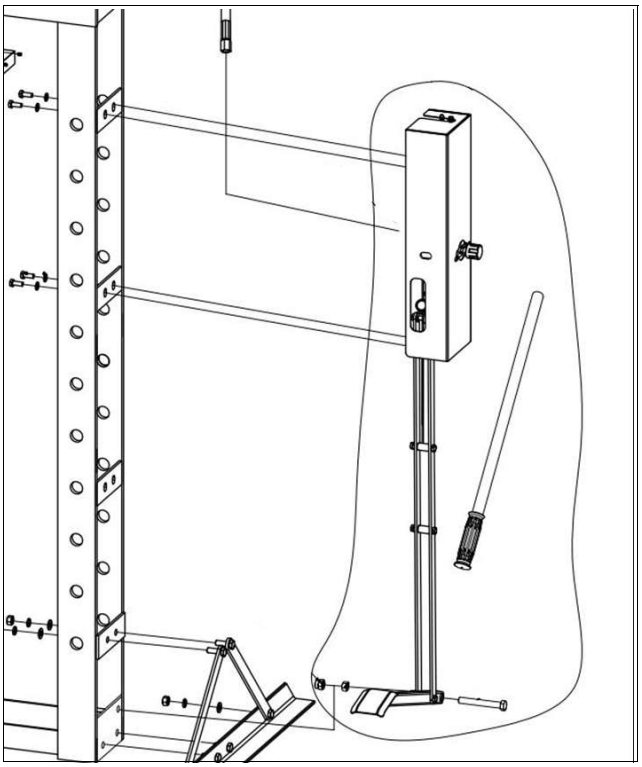


9. Insert the bed support pins into the holes in the frame side supports at a height of your choosing. Secure them in position using the butterfly spring clips.
10. Lift the pressing bed into position on the pins.

NOTE: Due to the weight of the bed, we recommend that you get assistance from another person.



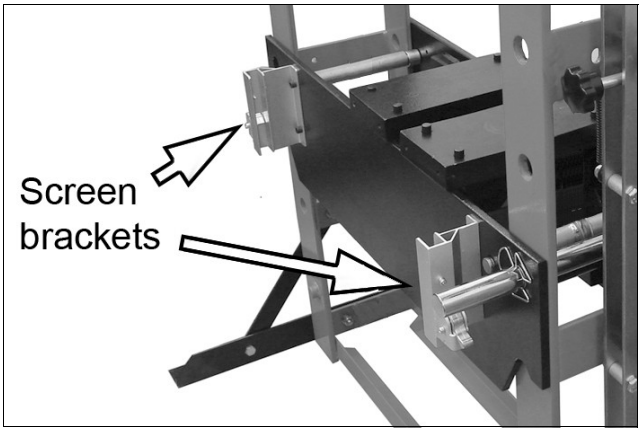
11. Bolt the foot pedal to the frame using the long bolt, spacer tube, nut and washers.



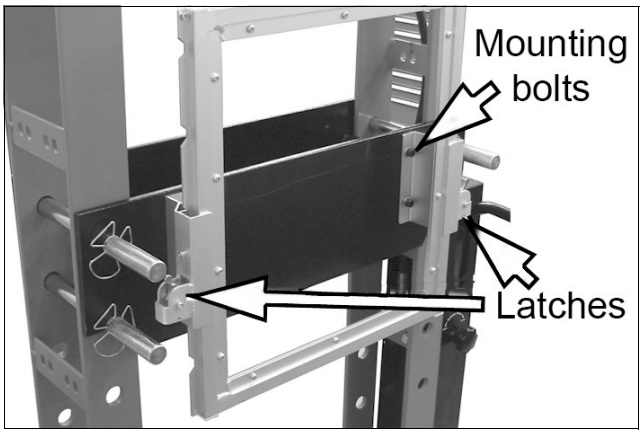
PROTECTIVE SCREENS (OPTIONAL)

- Protective screens (CPS30T part number 7615260) are available from your CLARKE dealer.

1. If the protective screens have been purchased, bolt the mounting brackets supplied to the pressing bed as shown.

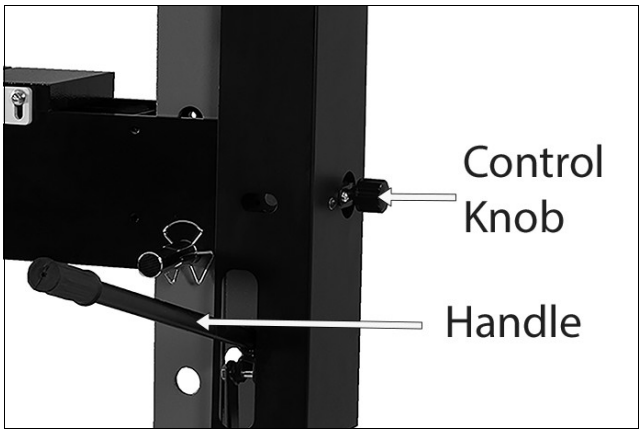


2. Fit the protective screen to the pressing bed and ensure it can be set in one of the available positions using the latches on each side.



PREPARATION FOR USE

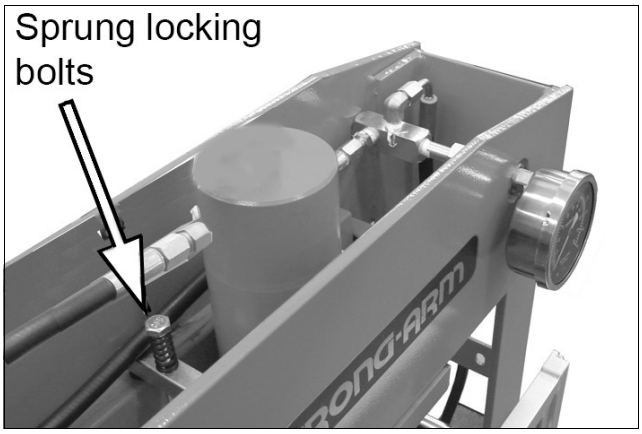
1. Insert the pump handle into the pump actuating lever.
2. Purge any air from the system by opening the release valve (turning the control knob anti-clockwise) and pumping several full strokes to eliminate any air bubbles. Close the valve using the control knob.



POSITIONING THE RAM

1. Slide the carriage along the cross-beam.
2. Lock it in position with the four sprung locking bolts.

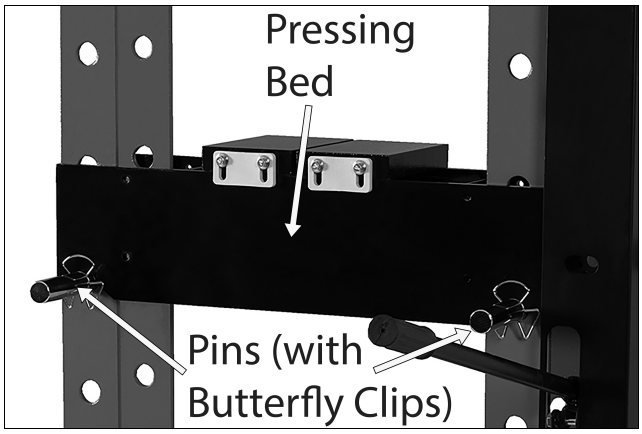
IMPORTANT: Always position the ram directly above the workpiece.



POSITIONING THE PRESSING BED

IMPORTANT: Due to the weight of the press bed, we recommend that you get assistance from another person when adjusting the bed height.

1. Position the pressing bed so that it will be as close as possible to the ram when the workpiece is mounted on it.
2. Raise one side of the bed and insert a bed supporting pin into the next locating hole.
3. Repeat at the other end to level the bed.



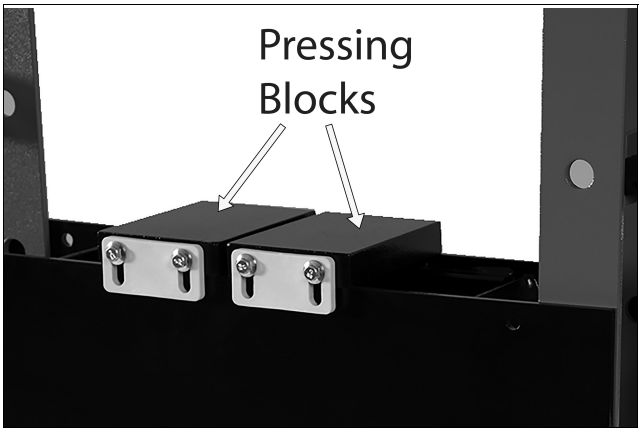
4. Repeat until the bed is at the required height, with the bed supporting pins are secured using the spring butterfly clips.

CAUTION: THE BED HEIGHT SHOULD ONLY BE RAISED OR LOWERED ONE HOLE AT A TIME, WORKING ALTERNATELY FROM ONE SIDE AND THEN THE OTHER, FAILURE TO WORK IN THIS WAY MAY CAUSE THE BED TO FALL AND CAUSE INJURY TO THE OPERATOR.

POSITIONING THE PRESSING BLOCKS

They are prevented from slipping out of position by the yellow retaining plates which can be adjusted with the two bolts, as shown.

Check all parts are secure and correctly aligned before using the press.



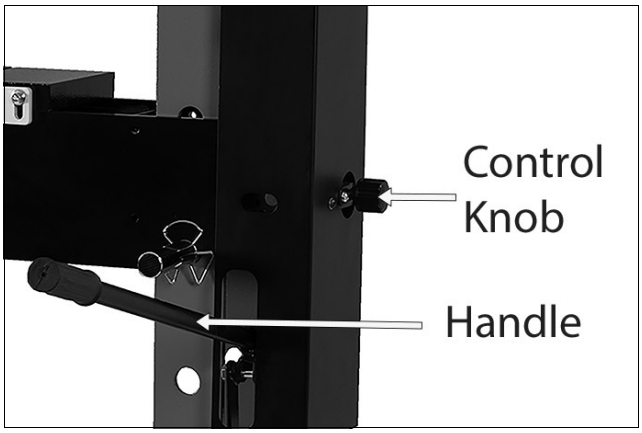
OPERATION

1. Place the workpiece on the bed. It must be completely stable and supported by packing or shims where required. Pressing plates (bed blocks) are supplied, which locate on the bed. Place the workpiece on these to give it stability.

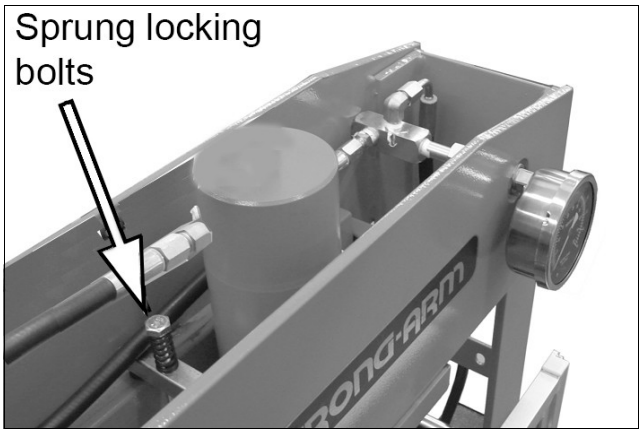
CAUTION: DO NOT POINT LOAD SUCH ACCESSORIES AS THEY ARE NOT DESIGNED TO TAKE THE FULL FORCE OF THE RAM IN ONE SPOT. ENSURE THEY ARE ADEQUATELY SUPPORTED.

NOTE: Any packing pieces or shims used MUST be capable of withstanding the pressure that will be brought to bear, and MUST be of sufficient size with sufficient surface area, so as to avoid the possibility of slipping or springing out. Mating surfaces MUST be horizontal so that the force being exerted will NOT be at an angle.

2. Close the release valve by turning the control knob clockwise until tightly closed.
3. Pump the handle or foot pedal to bring the ram very lightly into contact with the workpiece.



4. Manoeuvre the workpiece or loosen the locking bolts and slide the ram to one side so that the desired point of contact is directly beneath the centre of the ram.
5. Slowly pump the handle or foot pedal so that the ram begins to exert pressure on the workpiece.
6. Continue to pump the handle and constantly monitor the process, ensuring the ram and work remain completely in line and there is no risk of slipping.



NOTE: KEEP HANDS AND FINGERS AWAY FROM PARTS THAT MAY PINCH OR SHIFT

7. Observe the reading on the pressure gauge and take care not to exceed the rated working pressure of the press.

NOTE: The scale from 30 metric tonnes upward is highlighted in red, indicating pressure being applied above the rated maximum working pressure.

8. When the pressing task is complete, turn the release valve anticlockwise in small increments to release ram pressure and allow removal of the workpiece.

TROUBLESHOOTING

Problem	Probable Cause	Remedy
Pump will not work.	Dirt on valve seat/worn seals.	Bleed pump unit or have unit overhauled with new seals by your dealer.
Pump will not produce pressure. Pump feels hesitant under load.	Air-lock.	Open the release valve and pump the handle a couple of full strokes. Close the release valve.
Pump feels hesitant under load.	Pump cup seal could be worn out.	Have the cup seal replaced by your dealer.

MAINTENANCE

ROUTINELY

A visual inspection must be made before each use of the press, checking for leaking hydraulic fluid and damaged, loose, or missing parts.

Owners and/or users should be aware that repair of this equipment requires specialized knowledge and facilities. It is recommended that a thorough annual inspection of the press be made and that any defective parts be replaced with genuine CLARKE parts.

If the press appears to be damaged in any way, is found to be badly worn, or operates abnormally SHOULD BE REMOVED FROM SERVICE until the necessary repairs are made.

If the press is not to be used for any length of time, store it with the ram piston withdrawn to protect the surface of the moving parts.

PERIODICALLY

Check the press to make sure all bolts are tight and inspect for cracked welds, bent, loose or missing parts.

Clean any foreign material from the ram carrier. Keep the protective screen (if fitted) clean at all times.

Check the hydraulic connections for leaks. Replace or properly repair any damaged or leaking hydraulic components before using. Note any loss of oil and if oil is seen to become foul, replace using CLARKE hydraulic oil, Part No. 3050830.

If any rust is apparent on the structure it must be removed completely and the paint restored.

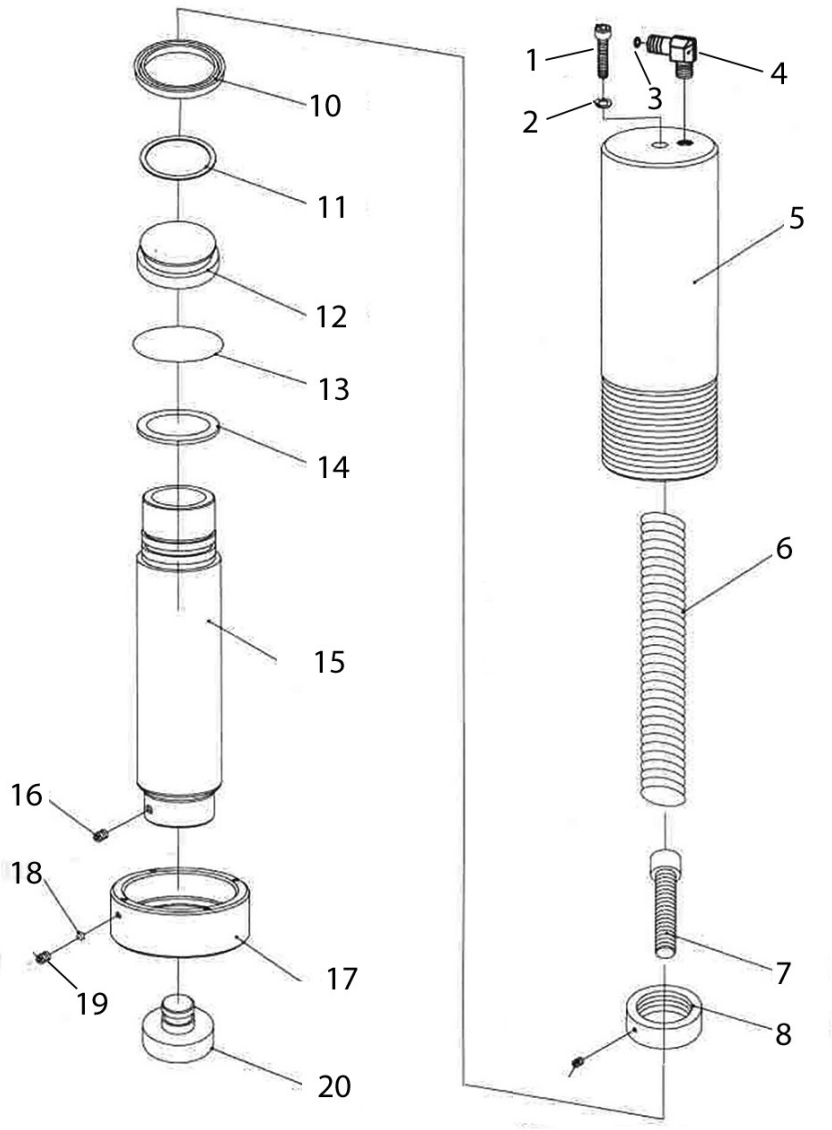
DISPOSAL OF UNWANTED MATERIALS

One of the most damaging sources of environmental pollution is oil products. Never throw away used oil with domestic refuse or flush it down a sink or drain. Collect any oil in a leak proof container and take it to your local waste disposal site.

Should hydraulic components become completely unserviceable and require disposal, draw off the oil into an approved container and dispose of the product and the oil according to local regulations.

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

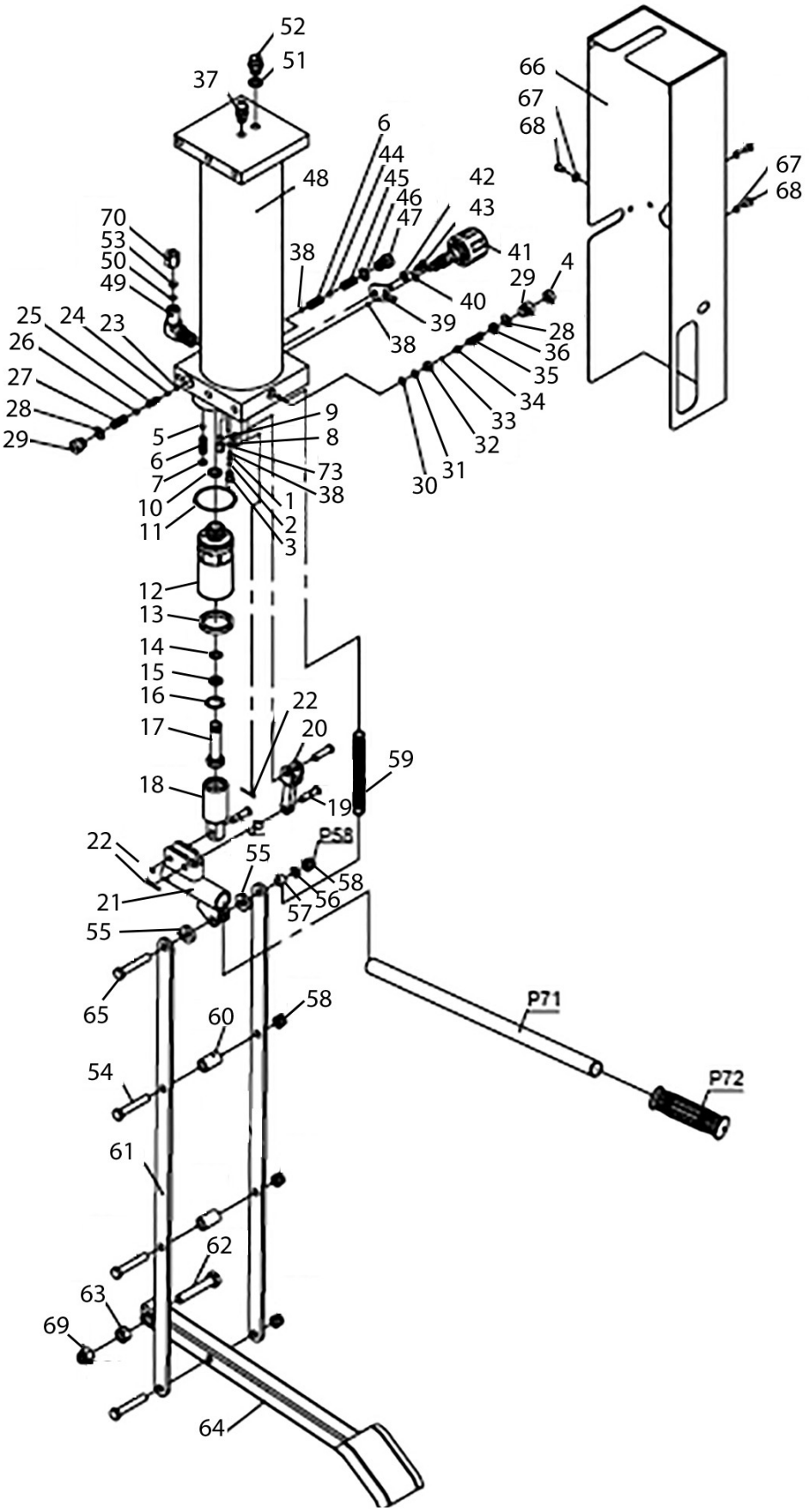
RAM PARTS DIAGRAM



NO	DESCRIPTION
1	Screw
2	Copper ring
3	O-ring
4	Joint
5	Ram assembly
6	Nut & spring
7	Screw
8	Sleeve
9	Screw
10	U-ring

NO	DESCRIPTION
11	PTFE ring
12	Piston head
13	O-ring
14	PTFE ring
15	Piston rod
16	Screw
17	Nut
18	Nylon block
19	Screw
20	Saddle

PUMP PARTS DIAGRAM



PUMP PARTS LIST

NO	DESCRIPTION
1	O-ring
2	PTFE washer
3	Valve seat
4	Cap
5	Steel ball
6	Spring
7	Screw
8	Steel ball
9	Limit steel block
10	Copper ring
11	O-ring
12	Pump core
13	U-ring
14	O-ring
15	Retaining ring
16	Circlip
17	Small pump core
18	Large pump core
19	Pin
20	Connecting bar
21	Socket assembly
22	Pin
23	O-ring
24	Nylon washer
25	Valve bar
26	Steel ball
27	Spring
28	O-ring
29	Screw
30	Copper ring
31	Washer

NO	DESCRIPTION
32	Bush
33	Valve ball
34	Steel ball seat
35	Spring
36	Screw
37	Joint
38	Steel ball
39	U-limit
40	O-ring
41	Release valve
42	Lock washer
43	Screw
44	Steel ball
45	Spring
46	Copper washer
47	Screw
48	Pump
49	Joint
50	O-ring
51	Nylon washer
52	Screw
53	Nylon washer
54	Bolt
55	Handle yoke
56	Washer
57	Sleeve
58	Nut
59	Spring
60	Sleeve
61	Tie bar
62	Bolt

NO	DESCRIPTION
63	Nut
64	Foot pedal
65	Bolt
66	Protective cover
67	Washer
68	Screw

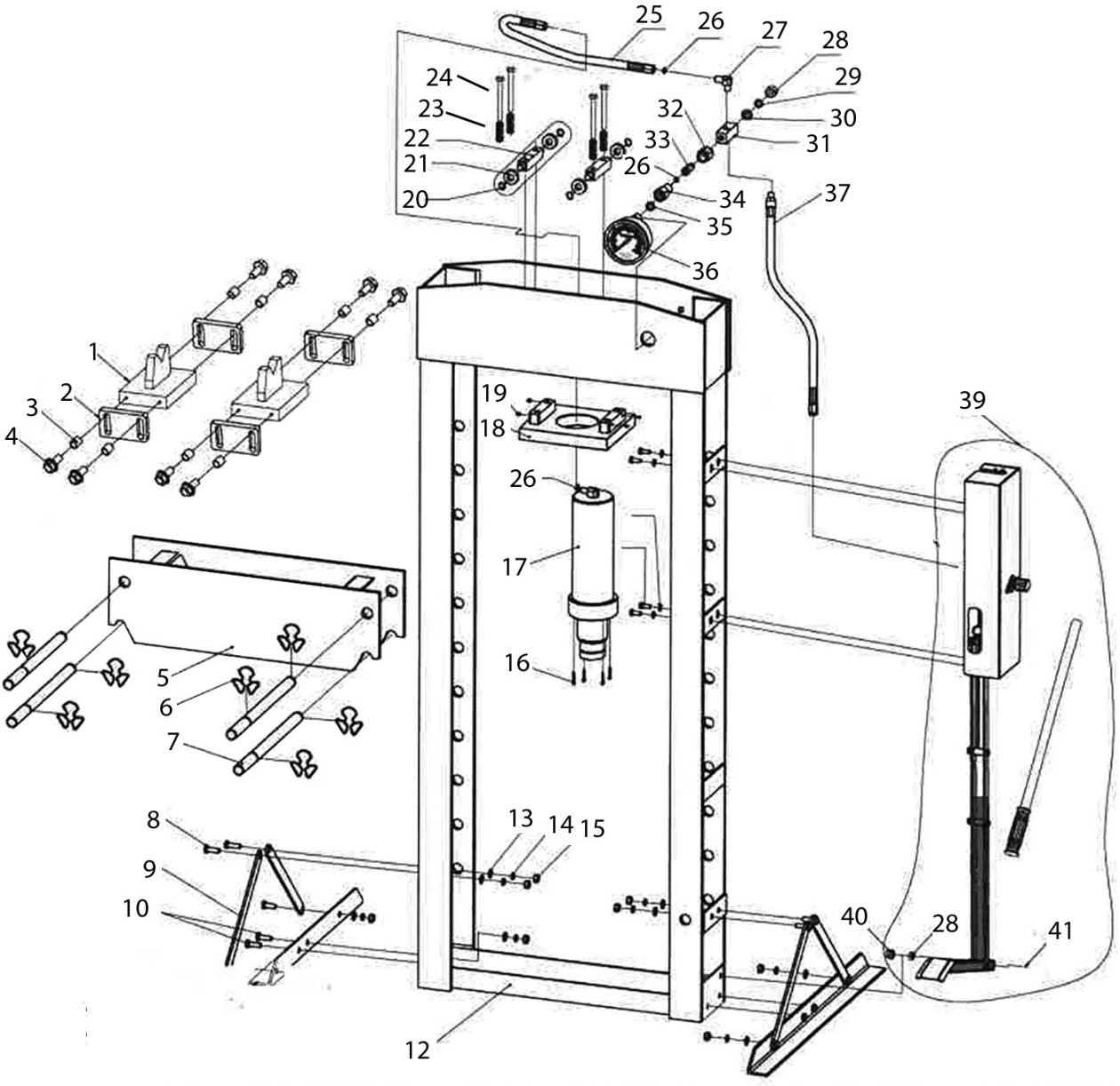
NO	DESCRIPTION
69	Nut
70	Nut
71	Handle tube
72	Handle grip
73	Retaining washer

GENERAL ASSEMBLY PARTS LIST

NO	DESCRIPTION
1	Bed block
2	Limit block
3	Sleeve
4	Bolt
5	Bed Frame
6	Retaining clip
7	Positioning Pin
8	Bolt
9	Supporting tie
10	Base section
11	Bolt
12	Main frame
13	Washer
14	Lock washer
15	Nut
16	Screw
17	Cylinder assembly
18	Mounting plate
19	Screw
20	Retain ring????

NO	DESCRIPTION
21	Roller
22	Cylinder positioning beam
23	Spring
24	Bolt
25	Oil hose
26	O-ring
27	Joint
28	Nut
29	Lock washer
30	Washer
31	Connecting block
32	Nut
33	Screw
34	Joint????
35	Nylon ring
36	Gauge
37	Oil hose
38	Bolt
39	Pump assembly
40	Nut
41	Bolt

GENERAL ASSEMBLY PARTS



UK CA

Clarke® INTERNATIONAL

Hemnall 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 legislation:

2006/42/EC *Machinery Directive*

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

EN ISO 16092-1:2018, EN ISO 16092-3:2018

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.

The UKCA mark was first applied in: 2025

Product Description:	Hydraulic Press
Model Number(s):	CSA30FPC
Serial/Batch Number:	Refer to product/packaging label
Date of Issue:	03/12/2025

Signed:

J.A Clarke

Director

CE

Clarke® INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

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The CE mark was first applied in: 2025

Product Description:	Hydraulic Press
Model Number(s):	CSA30FPC
Serial/Batch Number:	Refer to product/packaging label
Date of Issue:	03/12/2025

Signed:

J.A Clarke

Director

Parts & Service: 020 8988 7400 / E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

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QUALITY PRODUCTS













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