

# ClanPro®

## STRONG-ARM



### FOLDING ENGINE STAND

MODEL NO: CES680F

PART NO: 7610122

### ASSEMBLY & USER INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL0123 Iss 3

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## INTRODUCTION

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Thank you for purchasing this CLARKE Engine Stand.

Before attempting to operate the product, 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 stand giving you long and satisfactory service.

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## GUARANTEE

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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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## TECHNICAL SPECIFICATIONS

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Max Capacity (SWL)	680 kg (0.68 Tonne)
Net Weight	33 kg
Dimensions L x W x H	800 x 830 x 900 mm

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## SAFETY PRECAUTIONS

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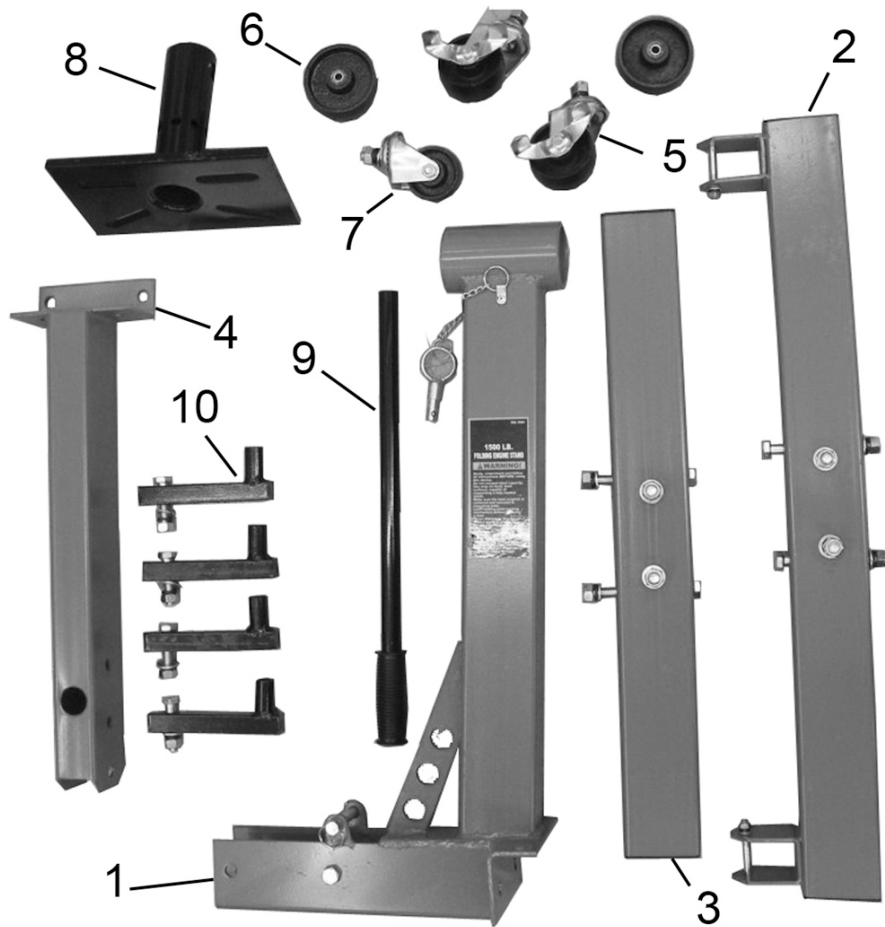
1. Do not allow personnel to use the stand unless they have read these safety precautions.
2. Never tamper with the product or modify it in any way, as this could prove to be dangerous and will invalidate the guarantee. Only use the product for the purpose for which it is intended.
3. Ensure that the stand is in good working order. Have any damaged parts repaired or replaced immediately. Use genuine Clarke parts only. The use of unauthorised parts may be dangerous and invalidate the guarantee.

4. Do not use the stand if it is damaged.
5. Use the stand in a suitable, well lit work area.
6. Keep the work area clean and tidy and free from unrelated items.
7. Do not use the stand when you are tired or under the influence of alcohol, drugs or intoxicating medication.
8. Use the stand on level and solid ground, preferably concrete. Avoid soft/ unmade ground as the castors may sink in.
9. Ensure all bystanders keep at a safe distance whilst the stand is in use.
10. Do not work underneath an engine mounted on the stand.
11. Never climb on, or attempt to ride on the stand.
12. Take care not to trap your fingers in the adjustable parts of the stand.
13. Due to the weight of the loaded stand, the help of an assistant will be beneficial when moving the stand around.
14. Never attempt to move a loaded engine stand across a floor having cracks, pebbles, or other obstacles which might impede its movement.
15. The components of this engine stand are designed to withstand the rated capacity. Do not substitute any other components or exceed the rated capacity of the stand.
16. To move a loaded stand, push it from the load side. DO NOT move the stand from the handle end and never pull the stand towards yourself.
17. Always ensure the engine is properly bolted to the stand.
18. Do not over-reach. Keep your proper footing and balance at all times.
19. Safety equipment such as gloves and non-skid shoes will reduce personal injuries.
20. Failure to heed these warnings may result in damage to the equipment, or serious personal injury.

## **INSPECTION BEFORE USE**

1. Always visually inspect the stand before use, to ensure that all parts are correctly located and secure. Check for cracks, deformation or other signs of damage or worn parts and check the castors for damage. Do not use the stand unless it is totally sound.
2. Check castors to ensure they move freely without undue wear to their pivots, and that the wheels are not cracked or damaged in any way.
3. Remove any rust or corrosion and repaint for protection.

# UNPACKING & ASSEMBLY



Unpack the components on a clean flat area of hard standing, and ensure that all parts are present according to the packing list, as follows:

1	1 x Supporting column
2	1 x Rear crossmember
3	1 x Front crossmember
4	1 x Hinged centre spine
5	2 x Rear castor with brake

6	2 x Front wheel
7	1 x Middle castor
8	1 x Engine mounting plate
9	1 x Mounting control handle
10	4 x Engine mounting arms
	1 x Fixings kit including nuts, bolts, washers and locating pin

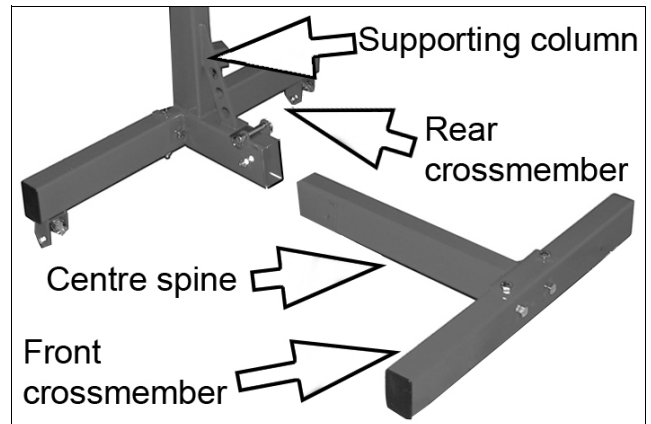
Visually inspect all components to ensure that no damage was suffered in transit. Any deficiencies should be reported to your CLARKE dealer immediately.

## TOOLS REQUIRED

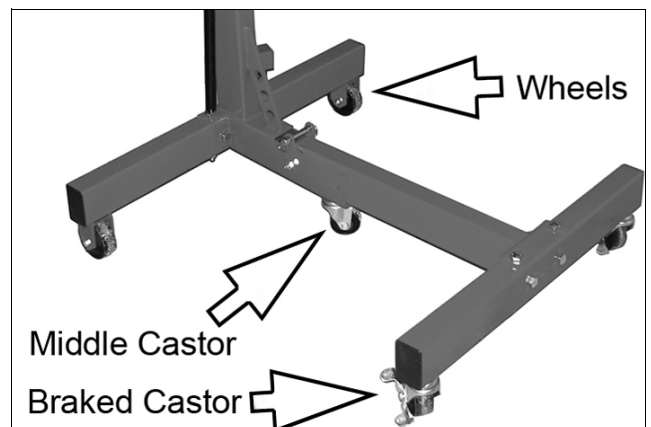
Open or ratchet ring spanners (19 mm) or an adjustable wrench.

# ASSEMBLY

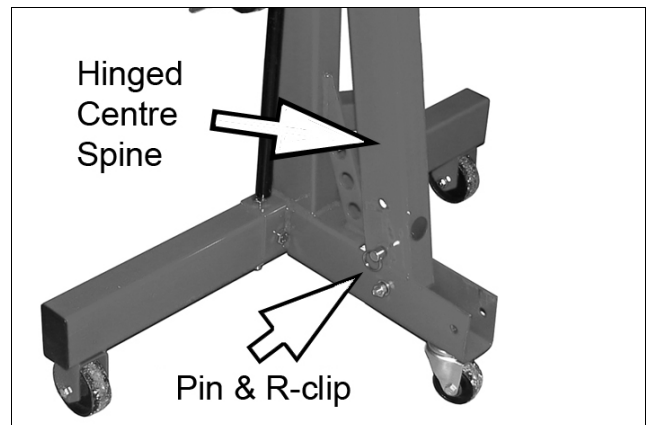
1. Loosely bolt the supporting column to the rear crossmember.
2. Loosely bolt the centre spine to the front crossmember.



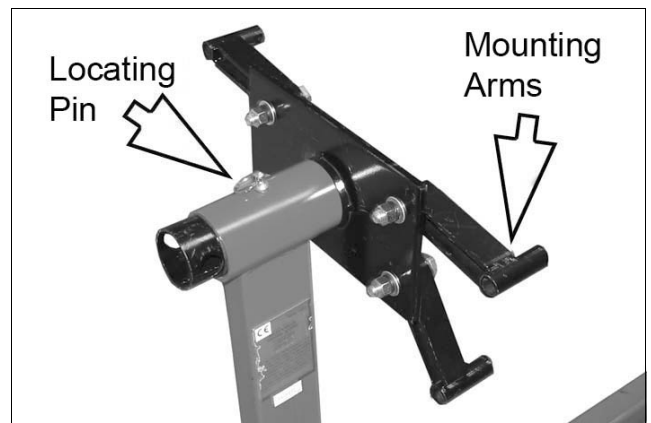
3. Secure the braked castors to the front crossmember with nuts and washers.
4. Fit the wheels to the rear crossmember using the small washers and split-pins.
5. Fit the middle castor to the supporting column and secure with washers and nut.



6. Connect the hinged centre spine to the column support section using the pivot bolt, washers & nut. Insert the locking pin and R-clip through the holes in the spine/supporting column according to whether the engine stand is to be in use, or folded for storage.



7. Fit the engine mounting plate to the column and secure with the locating pin.
8. Loosely attach the four mounting arms to the engine mounting plate with nuts, bolts and washers.
9. Fit the handle through the hole in the spindle of the mounting plate.



10. Ensure that all weight is spread evenly across all sections, making sure that all wheels/castors are on level ground and that the assembly is sitting square and true. Tighten all nuts and bolts.
11. Store the operating handle in the socket provided when not in use.

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## MOUNTING THE ENGINE TO THE STAND

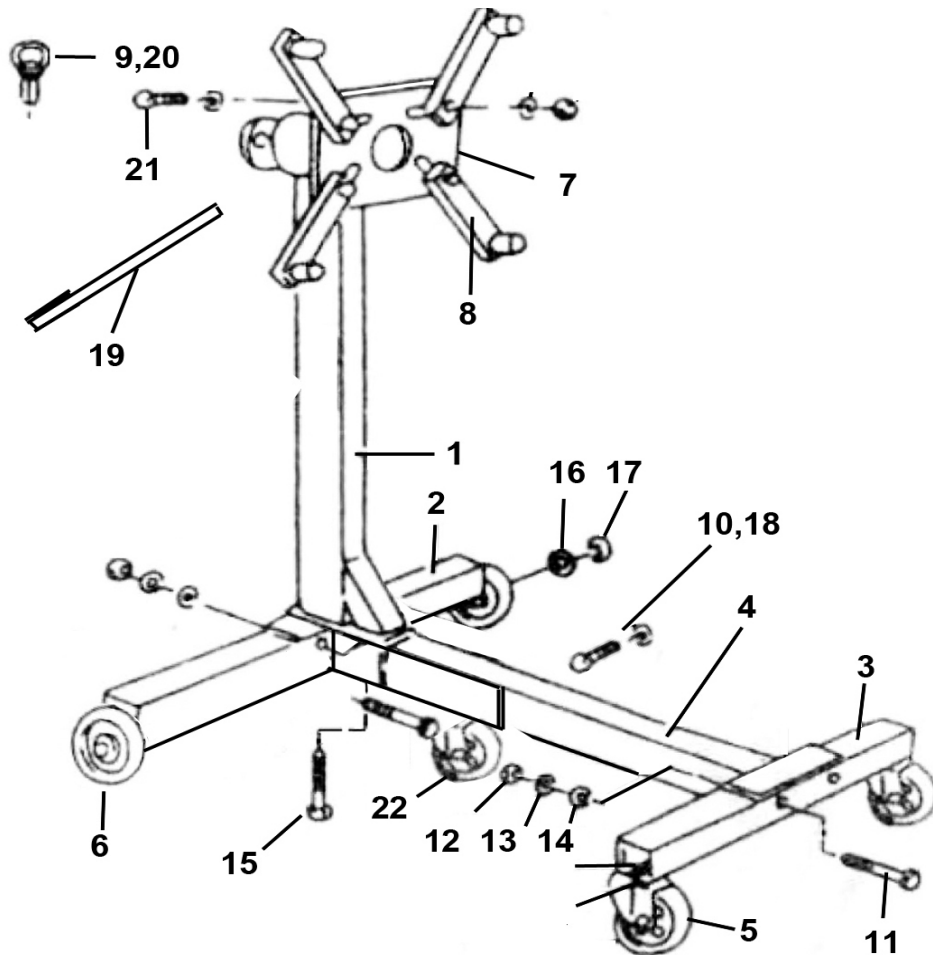
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1. The mounting plate has four adjustable arms with long bolt holes. This is where the engine will mount to the engine stand, using suitable bolts which are compatible with threaded holes in the engine block.
2. If the bellhousing bolts are too short, obtain bolts that have the same diameter and thread pitch. Ideally, the bolts must be long enough to go through the engine mounting arms and go at least one inch into the engine block.
3. Lift the engine with your engine hoist and move it towards the engine stand.
4. Remove the locating pin, then remove the mounting plate assembly from the engine stand.
5. Using compatible bolts, pass them through the mounting arms and bolt them to the engine where the transmission was mounted to the block. Mount two arms low down on the engine and bolt the other two as high as possible.
6. Adjust the arms on the engine stand mounts so that the centre of the mounting plate is aligned with the centre of the engine crankshaft. By doing this you can ensure that the engine is balanced on the stand. Tighten the bolts securely.
7. Lower the engine until the spindle is at the same level as the engine stand. Slide the spindle of the mounting plate into the engine stand. Replace the locating pin to secure the mounting.
8. Slowly lower the engine so that the engine stand starts to support the weight of the engine. Double-check all fasteners and be sure that the engine is secure.



9. Once you are confident that the stand is supporting the weight of the engine, disconnect the hoist. Now that the engine is mounted to the stand it can be rotated around to access all sides of the engine. Use the locking pin to lock the engine at one of four different working angles.

## PARTS DIAGRAM



PART NO	DESCRIPTION
1	Supporting Column
2	Rear Crossmember
3	Front Crossmember
4	Hinged Centre Spine
5	Castor (with brake)
6	Front Wheel
7	Engine Mounting Plate
8	Engine Mounting Arm
9	Locating Pin
10	Spine Locking Pin
11	Bolt (80mm)

PART NO	DESCRIPTION
12	Lock Washer
13	Flat Washer
14	Hex Nut
15	Bolt (110mm)
16	Washer
17	Split Pin
18	R-Clip
19	Mounting Control Handle
20	Securing Chain
21	Bolt (60mm)
22	Middle Castor

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### DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following statutory requirement(s):

Supply of Machinery (Safety) Regulations 2008

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

EN ISO 12100:2010

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: 2023

Product Description: Engine Stand 680kg

Model number(s): CES680F

Serial / batch Number: N/A

Date of Issue: 11/01/2023

Signed:



J.A. Clarke  
Director

CE

**Clarke®**  
INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

### DECLARATION OF CONFORMITY

This is an important document and should be retained.

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

2006/42/EC Machinery Directive

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

EN ISO 12100:2010

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

The CE mark was first applied in: 2014

Product Description: Engine Stand 680kg

Model number(s): CES680F

Serial / batch Number: N/A

Date of Issue: 11/01/2023

Signed:



J.A. Clarke  
Director