



EN

Original Instructions
Version 2
November 2025

450kg

ENGINE STAND

20129



1. Preface

These are the original product instructions. Read the instruction manual in full and retain for future reference.

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

1.1 Product Reference

User Manual for: 450kg Engine Stand

Stock No: 20129

Part No: ES450B

1.2 Revisions



Version 1: March 2022

First release

Version 2: November 2025

As our manuals are continually updated, always ensure that the latest version is used.

1.3 Understanding the Safety Content of This Manual

- **WARNING!** – Situations or actions that may result in personal injury or death.
- **CAUTION!** – Situations or actions that may result in damage to the product or surroundings.
- Important:** – Information or instructions of particular importance.

1.4 Copyright © Notice

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3.1 Intended Use

This engine stand is designed to support a variety of engines and transmissions during maintenance and repair and is intended for domestic and light-duty trade use. Any other application beyond the conditions established for use will be considered misuse.

Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.	20129
Part No.	ES450B
Max. load	450kg
Dimensions (stand only)	W 685 × H 850 × D 850mm
Net weight	20kg

4. Health and Safety Information

Important: Read all Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user, the product or the load.

- Observe all standard safety precautions and good practices when working in a workshop environment.
- Keep your work environment clear and well-lit, with bystanders at a safe distance.
- Assemble this product only in the manner depicted.
- Before every use, inspect the stand for broken or cracked parts, loose fixtures and binding wheels.

 **WARNING! DO NOT use this product if its structural integrity is compromised. Tighten, replace or repair all affected parts before use.**

- Only use this product on firm, level surfaces capable of supporting both the stand and its load.
 - **DO NOT** use this product on sloping or slippery surfaces.
- **DO NOT** modify this product in any way.

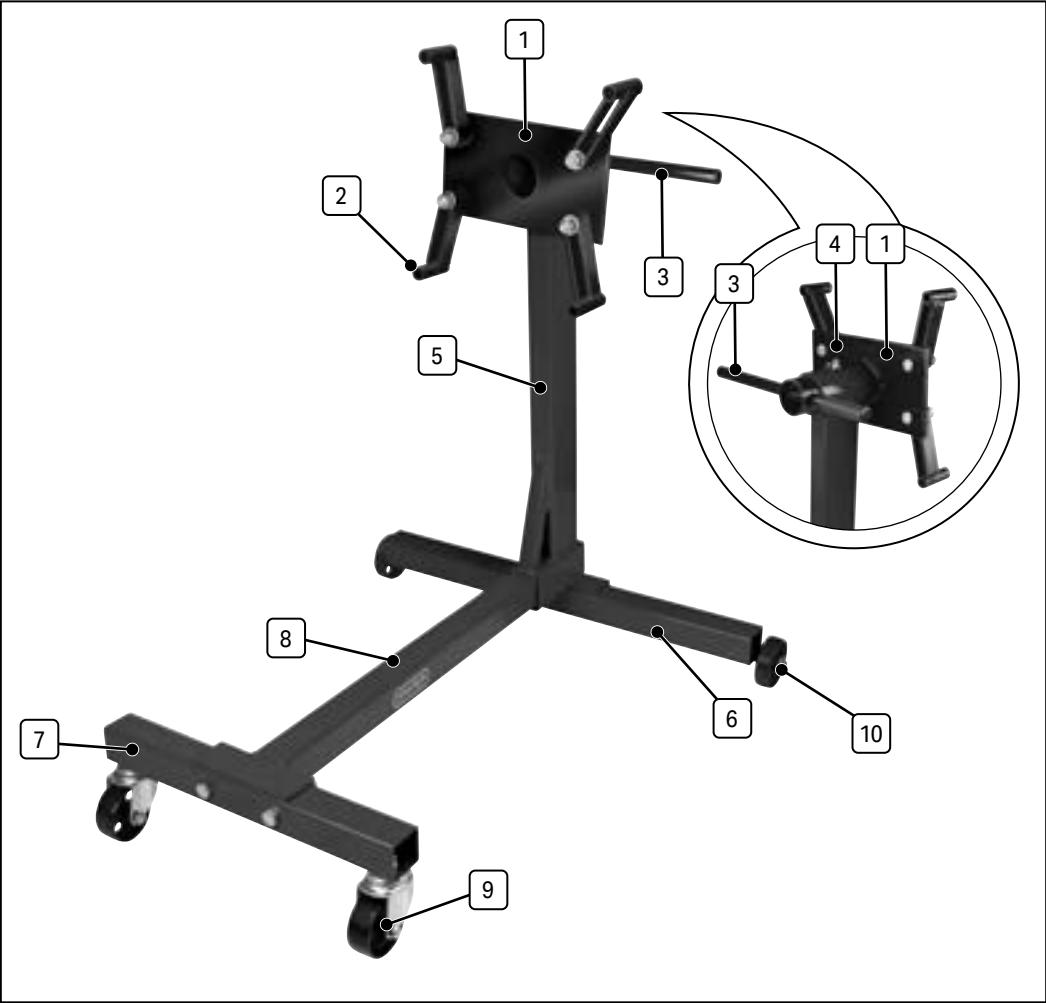
- **DO NOT** climb on, ride on or allow others to ride on this product.
- **DO NOT** attempt to move the stand under load over cracked or uneven flooring.
 - **ALWAYS** plan the route in advance and check it for obstructions.
- **NEVER** exceed the rated capacity of this product.
- **ALWAYS** ensure that the load is mounted centrally on the mounting plate.
 - Off-centre loads may cause the load to rotate when the locking pin is released.
- **ALWAYS** lock the mounting plate in place before transferring the load to the stand.
- **NEVER** work directly above or below the load; rotate the load using the mounting plate handle and carry out operations from the side.
- Take care when removing the locking pin and observe the load at all times

5. Identification and Unpacking

5.1 Product Overview

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. If any part is damaged or missing, **DO NOT** attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



- | | | | | | |
|---|-----------------------|---|----------------|----|---------------|
| 1 | Mounting plate | 5 | Support column | 9 | Front castors |
| 2 | Mounting arms | 6 | Rear crossbar | 10 | Rear wheels |
| 3 | Mounting plate handle | 7 | Front crossbar | | |
| 4 | Locking pin | 8 | Central arm | | |

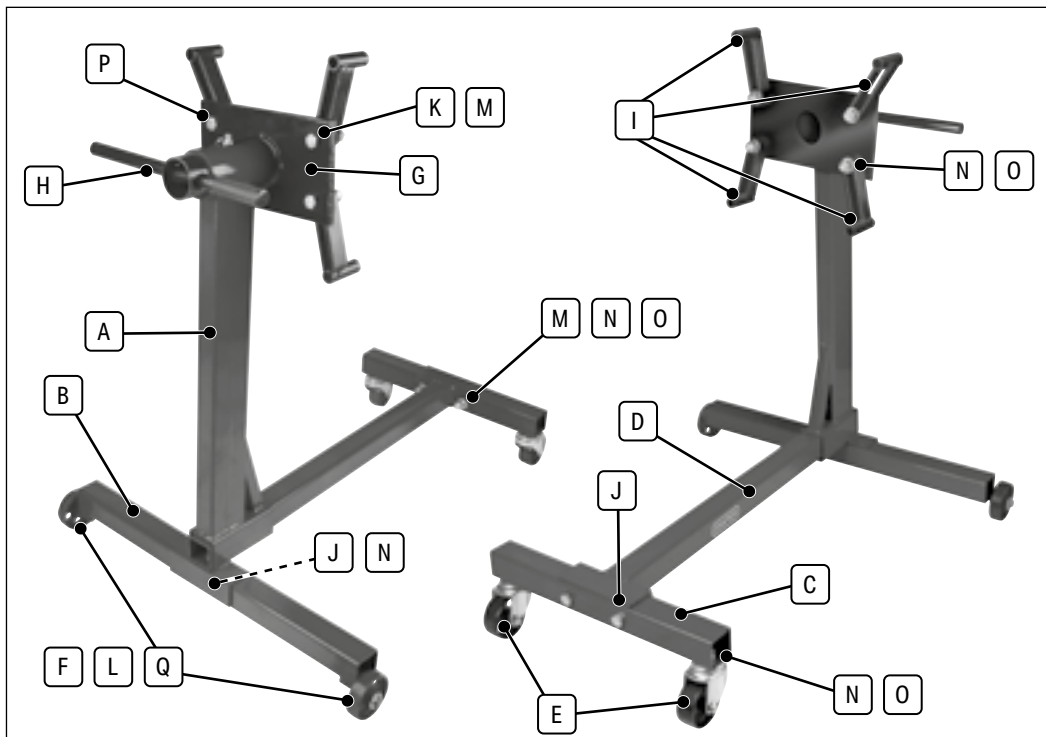
5. Identification and Unpacking

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5.2 What's in the Box?

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



- A** 1 × Support column assembly
- B** 1 × Rear crossbar
- C** 1 × Front crossbar
- D** 1 × Central arm
- E** 2 × Front castors
- F** 2 × Rear wheels

- G** 1 × Mounting plate
- H** 1 × Mounting plate handle
- I** 4 × Mounting arms
- J** 3 × M12 × 80mm hex bolts
- K** 4 × M12 × 40mm hex bolts
- L** 2 × M14 washers

- M** 6 × M12 washers
- N** 9 × M12 spring washers
- O** 8 × M12 nuts
- P** 1 × Locking pin
- Q** 2 × Split pins

5.3 Packaging


Keep the product packaging for the duration of the warranty period for reference should the product need to be returned for repair.

WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

Please visit drapertools.com for our full range of accessories and consumables.

6. Assembly Instructions

Important: Read all the safety instructions before attempting to assemble this product. Loosely secure all fixings during assembly and tighten once complete. Do not overtighten joints and fixings.

 **WARNING! The parts of this product are heavy. Seek assistance when assembling the stand and do not over-exert yourself.**

1. Attach the rear crossbar **[B]** to the support column assembly **[A]** and central arm **[D]**:
 - a. Position the central arm so that the horizontal part of the bracket is level with the top edge and feed the square end into the square socket of the central support arm.
 - b. Position the rear crossbar with the axles on the lower edge and align it with the central support column.
 - c. Pass an M12 × 80mm bolt **[J]** through an M12 spring washer **[N]**, up through the base of the rear crossbar and into the support column assembly, tightening it to secure.
2. Attach the front crossbar **[C]** to the central arm:
 - a. Pass two M12 × 80mm bolts **[J]** through the front crossbar and the central arm bracket.
 - b. Add an M12 washer **[M]** and an M12 spring washer **[N]** to each bolt and tighten with an M12 nut **[O]**.
3. Attach the front casters **[E]**:
 - a. Pass the front caster bolts up through the base of the front crossbar.
 - b. Add an M12 spring washer **[N]** to each bolt and tighten with an M12 nut **[O]**.
4. Place a rear wheel **[F]** onto each axle of the rear crossbar and secure in place with an M14 washer **[L]** and split pin **[Q]**.

Important: The rear wheels should be positioned so that the deeper wheel hub is facing inwards.

5. Attach the mounting plate **[G]**:
 - a. Slide the mounting plate through the support column socket so that the plate is positioned above the central arm.
 - b. Pass the mounting plate handle **[H]** through the opening in the mounting plate stem.
 - c. Insert the locking pin **[P]** to secure the mounting plate in position.
 - d. Pass four M12 × 40mm bolts **[K]** through the back of the mounting plate and attach a mounting arm **[I]** to each.
 - e. Secure each mounting arm in place with an M12 washer **[M]**, an M12 spring washer **[N]** and an M12 nut **[O]**.
6. Check that the stand frame is not twisted and that all four wheels are touching the ground, then tighten all attachments.

7. Mounting an Engine onto the Stand

Important: Before attaching any load, read and understand all the safety instructions listed in this manual. **ALWAYS** ensure that the fixing bolts used to attach the load are of an appropriate length and grade.

Important: Bolt the bottom two arms low on the load and the top two arms as high as possible. The bolts must be long enough to be wound at least 25mm into the load when mounted. Draper Tools recommends metric grade 8.8 bolts for mounting engines.

1. Raise the load with an appropriate hoist and position the engine stand nearby.
2. Remove the mounting plate handle **H** and locking pin **P** and slide the mounting plate **G** away from the stand.
3. Pass the fixing bolts through the back of the mounting arms and screw them into the mounting sockets on the load.
4. Adjust the mounting arms so that the centre of the mounting plate is aligned with the centre of the engine crankshaft and tighten all bolts securely.
5. Lower the load until the mounting plate stem aligns with the socket on the support column assembly **A** and slide it into place.
6. Insert the mounting plate handle and locking pin to secure the mounting plate in place.
7. Use the hoist to lower the load and carefully transfer the weight to the engine stand.
8. Check that all attachments are secure and that the stand can support the load without intervention, then disengage the hoist.
9. To rotate the load:
 - a. Remove the locking pin and use the mounting plate handle to turn the load into the correct position.
 - b. Reinsert the locking pin when the load is in the required position; four positions are available.

8. Maintenance

Important: Maintenance and repairs should **ONLY** be carried out by authorised and suitably qualified personnel.

- Regularly check the product for damage, corrosion and loose fixings, and keep fixings securely fastened.
- Periodically lubricate all wheel attachments to ensure smooth movement.
- Store the engine stand in a dry and clean location, out of reach of children.

9. Spares, Returns and Disposal

At the end of its working life, or when it can no longer be repaired, dispose of the product according to local regulations.

Contact your local authority for details of collection schemes in your area.

10. Warranty

12 months from date of purchase – Visit [drapertools.com/warranty](https://www.drapertools.com/warranty) for more information. However, if the tools are hired out, the warranty period is 90 days from the date of purchase.

11. Explanation of Symbols



Read the instruction manual



Never attempt to move the engine stand loaded on cracked floors or with any other obstacle likely to hinder the castors' movements



Warning!



Maximum load capacity



Never work directly on top of a suspended engine

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