



# 680KG FOLDING 360° ROTATING ENGINE STAND WITH GEARED HANDLE DRIVE

MODEL NO: **ES680D**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear safety footwear



Wear protective clothing



Wear protective gloves



Warning: Pinch crush hazard

## 1. SAFETY

- WARNING!** Ensure all Health and Safety, local authority, and general workshop practice regulations are strictly adhered to when using this equipment.
- ✓ Before using the stand ensure it is in good working order.
- ✓ Ensure the stand legs and arms are locked with respective pins and R clips before use.
- ✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✗ **DO NOT** use unit if damaged.
- ✓ Keep the stand clean for best and safest performance.
- ✓ Use only with legs folded down and pinned.
- ✓ Locate the stand in a suitable work area, keep area clean and tidy and free from unrelated materials. Ensure there is adequate lighting.
- ✓ Use on a firm, level surface capable of sustaining the stand and the load.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Ensure all non-essential persons keep a safe distance whilst the stand is in use.
- ✓ Lock mounting plate in position with locking pin before fixing a load and ensure the load is centred and securely mounted on the mounting plate.
- ✓ When an engine is mounted, take the weight of the engine on the handle before removing the locking pin.
- ✓ Ensure the stand and load are stable.
- ✓ To move a loaded stand, steady the load and push from behind the main post of the stand so that the castor wheels are ahead of the load.
- ✗ **DO NOT** pull the unit backwards, or push from the side, as this may cause the stand to tip.
- ✗ **DO NOT** concentrate a heavy load to either side or end of the Engine Stand. This can cause the balance to shift suddenly, tipping the Engine Stand and its load which can quickly cause severe injury and property damage!
- ✓ Ensure surface over which the stand is to travel is strong enough to take the stand and load and that it is not cracked, uneven, sloped or obstructed.
- ✗ **DO NOT** allow untrained persons to use the stand.
- ✗ **DO NOT** exceed the rated capacity of 680kg.
- ✗ **DO NOT** use to support humans or animals.
- ✗ **DO NOT** climb on the Engine Stand.
- ▲ **DANGER! DO NOT** work under an engine mounted on the stand.
- ✗ **DO NOT** use the stand for purposes other than those for which it is designed.
- ✓ When not in use store stand in a safe, dry, childproof area.
- ✓ Use extreme caution while rotating the hand crank to rotate the load as a large, top-heavy engine or similar object could result in a sudden imbalance condition and cause the Engine Stand to suddenly tip.
- ▲ **DANGER!** While rotating, always stand behind the crank end of the stand and make constant observations of the casters. If any indication of instability occurs, STOP IMMEDIATELY!
- ▲ **DANGER! PINCH/CRUSH HAZARD!** This Engine Stand has moveable components that can crush and pinch. Keep fingers and hands away from pinch points when operating.

## 2. INTRODUCTION

This engine stand accepts a wide variety of engines and transmissions. The Geared Handle Drive allows for easy and accurate 360° rotation in order to access all parts of the engine. Mounting head has four fully adjustable arms with bolt holes to accommodate various load sizes. Fitted with screw lock to ensure load is secured. Swivel castors provide excellent manoeuvrability. Assembled with clevis pins and clips so the stand can be folded for storage. **Maximum Load Length: 700mm.**

## 3. SPECIFICATION

Model No:.....**ES680D**  
Capacity:..... 680kg

Size (W x D x H): ..... 1080 x 895 x 890mm  
Max. Load Length:.....700mm

## 4. ASSEMBLY

### REFER TO PARTS DIAGRAM

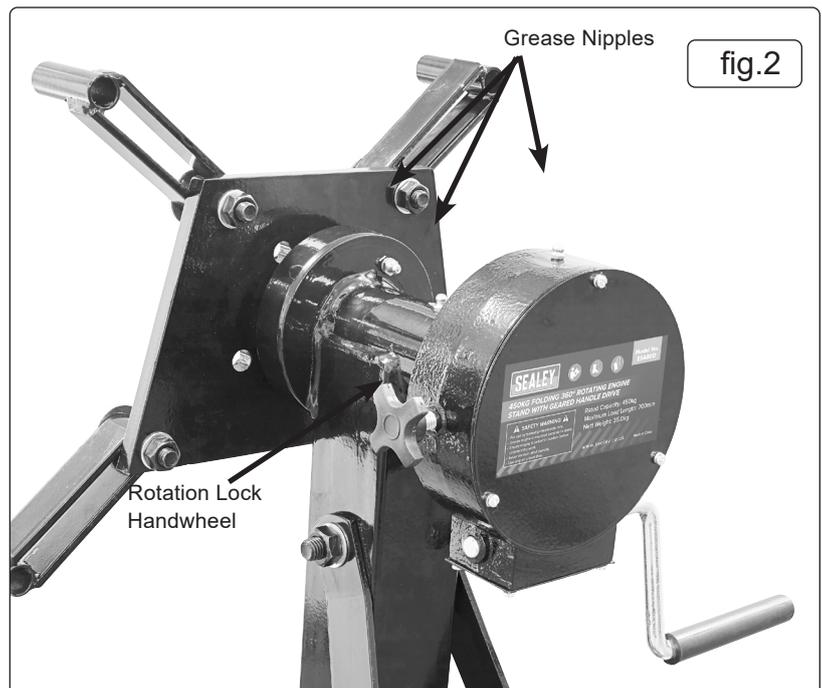
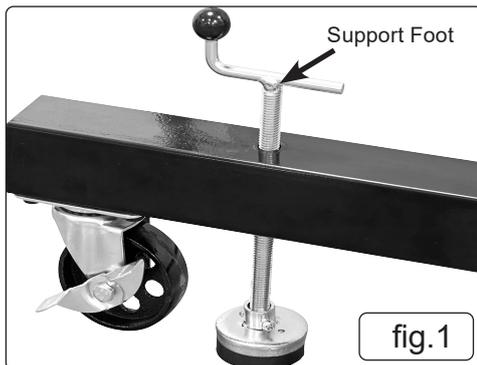
- ❑ **WARNING!** The Engine Stand consists of heavy metal components which can cause potentially serious injuries if allowed to drop.
- ❑ **WARNING!** Avoid pinching hands while handling parts during assembly.
- ✓ Get the assistance of a helper during assembly.
- ✓ Assemble in a large, uncluttered area close to area of intended usage.
- ✓ Leave fixings loose until assembly is complete then tighten.
- ✓ Allow sufficient area for operator and helper to remain clear when choosing operating area.

**NOTE** To protect the finish of the engine stand components from damage and scratches, use cardboard, carpet, blankets etc. to cover the area before beginning assembly.

- 4.1. Attach the castors (item 15) to each end and mid-portion of the legs (item 17) using set screws (item 11).
- 4.2. Place legs (item 17) into slots in base (item 8) and use two leg lock pins (item 13) to secure each leg. Lock pins in place using R-Clips (item 14).
- 4.3. Attach Support Foot (item 42), End Cap (item 41) to legs and base (item 8). Secure end caps with Grub Screws (item 11).
- 4.4. Assemble Mounting Arms (item 25) to Head Mounting Plate (item 24) using Hex Head Bolt M12 x 65mm (item 37), Large Washer (item 36), Spring Washer (item 29) and Steel Nut M12 Zinc (item 38).
- 4.5. Attach Main Post (item 2) to Base (item 8) using Hex Head Bolt M14 x 90mm (item 3), Flat Washer M14 Zinc (item 7) and Steel Nut M14 Zinc (item 6).
- 4.6. Secure tops of Support Braces (item 5) against Main Post (item 2) and align the holes. Insert Hex head Bolt M14 x 100mm (item 4) and secure with Flat Washer M14 Zinc (item 7) and Steel Nut M14 Zinc (item 6). **DO NOT** over tighten until both ends are located correctly.
- 4.7. Secure bottom ends of Support Braces (item 5) to Base (item 8) using Hex head Bolt M14 x 100mm (item 4) and secure with Flat Washer M14 Zinc (item 7) and Steel Nut M14 Zinc (item 6). **DO NOT** over tighten until both ends are located correctly.

## 5. OPERATION

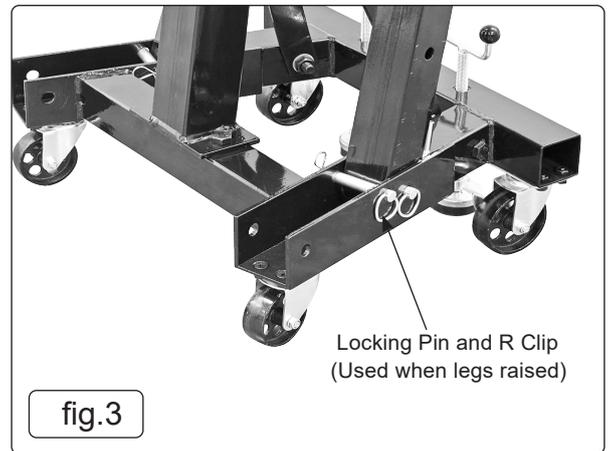
- ❑ **WARNING:** Ensure that legs are down and secured in the lowered position.
- 5.1. Only use mounting bolts of the equivalent grade or stronger as those supplied by the vehicle manufacturer to mount an engine, transmission or other heavy assembly to this stand.
  - 5.2. Once the stand is in position and before mounting the engine to the frame, lower the Support Feet (item 42) to remove weight bearing load on the castors (fig.1).
  - 5.3. The Mounting Plate is drilled with 2 bolt patterns, one small and one large. In addition, the Mounting Arms are elongated and provide for 90mm of adjustment and can be positioned anywhere within 360°. While these features allow for virtually unlimited combinations of mounting possibilities, it is the responsibility of the user to determine the best mounting arrangement and to follow all safety warnings presented in the Safety Information section of these instructions.
  - 5.4. The Swivel Castors are equipped with a Locking Brake Feature. These **MUST** be locked before adding a load to prevent unintended movement of the Engine Stand while attaching the load.
  - 5.5. **TO ROTATE:** Carefully grasp the Hand crank and slowly rotate it, which will in turn rotate the Mounting Plate with the load attached in the desired direction. When the unit is positioned as required, lock the Hand Crank in place using the handwheel (item 39)(fig.2)
    - ❑ **WARNING! TIP HAZARD!** Use extreme caution while rotating the Hand crank to rotate the load as a large, top-heavy engine or similar object could result in a sudden imbalance condition and cause the Engine Stand to suddenly tip.
  - 5.6. **TO PREVENT UNDUE ROTATION:** Screw in the handwheel (item 39) on the side of the worm drive unit (fig.2).
    - 5.6.1. While rotating, always stand behind the crank end of the stand and make constant observations of the castors.
      - ❑ **WARNING!** If any indication of instability occurs, STOP IMMEDIATELY!



## 6. STORAGE

### 6.1. FOLDING UP THE ENGINE STAND

- 6.1.1. Remove 'R' Clips from the Locking Pins and set aside for re-use as locking pins (see 5.1.3).
- 6.1.2. Remove the Leg Lock Pins securing the Side Leg (item 17) at position A on fig.1  
**NOTE:** Carefully hold the Engine Stand Post/Mounting Plate steady with one hand to prevent it from falling forward while raising the legs.
- 6.1.3. When the leg is lifted, fix in place by placing the locking pin into the hole next to the pivot point and refit the R clip (fig.3).



## 7. MAINTENANCE

- 7.1. Keep all moving components of the Engine Stand well lubricated and free of any dirt or debris accumulations.
- 7.2. The Engine Stand is finished in rugged powder coating. However it is advisable to keep the finish clean and free from excessive dust and dirt.
- 7.3. Keep the Engine Stand in a clean and dry environment. **DO NOT** store it in, or expose it to, a damp or wet environment.
- 7.4. Before each use, inspect all components for potential damage and proper alignment. Check all hardware for tightness  
x **DO NOT** use if damaged.
- 7.5. Occasionally add lithium grease to the grease points located on the main pivot shaft and gearbox (fig.2).



### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.



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