



BODY & CHASSIS/FRAME STRAIGHTENER KIT WITH VARIABLE UPRIGHT

MODEL NO: **DZRE22**

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 eye
protection



Wear protective
gloves



Wear safety
footwear



Wear protective
clothing

1. SAFETY

HSE WARNING! WHEN USING THIS OR ANY TOOLS OR EQUIPMENT IN A COMMERCIAL OR PRIVATE WORKSHOP ENVIRONMENT BE AWARE OF THE DANGERS AND YOUR RESPONSIBILITY TO OTHERS. WE RECOMMEND YOU AND YOUR COLLEAGUES READ THE FOLLOWING UK GOVERNMENT PUBLICATIONS, AND OTHERS THAT MAY BE AVAILABLE, AND TAKE HEED OF ALL WARNINGS AND PRECAUTIONS:

(AVAILABLE FREE ON LINE OR AVAILABLE AT A COST IN BOOK FORM.) <https://www.hse.gov.uk/pubns/priced/hsg261.pdf>

THIS EQUIPMENT IS DESIGNED FOR PROFESSIONAL USE AND IS INTENDED TO BE EMPLOYED IN COMMERCIAL WORKSHOPS BY FULLY TRAINED AND QUALIFIED OPERATIVES. FOR THIS REASON WE DO NOT PROVIDE DETAILED INSTRUCTIONS FOR APPLICATIONS FOR THE PRODUCT. ENSURE THAT ONLY FULLY TRAINED AND EXPERIENCED OPERATIVES ARE ALLOWED ACCESS AND THAT THEY ARE FULLY INFORMED OF REPAIR TECHNIQUES FOR THE BRAND AND MODEL OF VEHICLE TO BE REPAIRED.

❑ **WARNING!** Ensure health & safety, local authority, and general workshop practice regulations are adhered to when using this equipment.

✓ Familiarise yourself with product application and limitations, as well as the specific potential hazards peculiar to the straightener.

IMPORTANT. THE RATED CAPACITY OF THE HYDRAULICS SUPPLIED WITH THIS KIT IS 4 TONNE. OTHER COMPONENTS POTENTIALLY HAVE A DIFFERENT CAPACITY RATING. PLEASE SEE BELOW FOR DETAILS.

CAPACITY OF THE PULL CLAMPS IS 3 TONNE. PUMP & RAM - MAX 4TONNE CAPACITY, CHAIN - MAX 10 TONNE CAPACITY, HOOK - MAX 3TONNE CAPACITY.

IF USED WITH A STRAIGHT EFFORT BETWEEN 2 POINTS THE MAXIMUM FORCE EXERTED CAN BE 4 TONNES PER SQUARE INCH. HOWEVER WHEN USED IN THE STRAIGHTENER KIT THE ACTUAL FORCE EXERTED WILL BE VARIABLE DEPENDING ON THE ANGLES AND THE PRESSURE APPLIED. TAKE GREAT CARE WHEN ATTACHING HOOKS AND HEED THE WARNING TO COVER CHAINS AND CLAMPS WITH TARPULIN OR SIMILAR UNDER LOAD TO MINIMISE RISK FROM WHIPLASH AND MOVEMENT CAUSED BY ANY SLIPPING OR LOOSENING OF CLAMPS/HOOKS WHICH MAY OCCUR.

THE UNIT DOES NOT HAVE A VEHICULAR RATED CAPACITY AND SHOULD NEVER BE USED TO SUPPORT A VEHICLE AT ANY TIME AND SHOULD NEVER BE ALTERED TO DO SO.

❑ **WARNING!** No part of this unit or any accessory relating to the straightener is designed for lifting loads. It is intended only as a pulling device and must be used as such with care.

❑ **WARNING!** Disconnect the straightener from the hydraulic pump before servicing or performing any maintenance on the unit.

✓ Maintain straightener in good order. Replace/repair with genuine parts only. Non genuine parts may be dangerous and will invalidate the warranty.

✓ Use qualified person to lubricate and maintain the hydraulic pump. **DO NOT** use brake fluid to top up hydraulic unit. Use Sealey hydraulic oil only.

✓ Keep the straightener clean for best and safest performance.

❑ **WARNING!** Use straightener on level & solid ground, preferably concrete. Avoid tarmac since the equipment may sink into the surface.

✓ Keep area clean & tidy and free from unrelated materials. Ensure there is adequate lighting.

❑ **WARNING!** Ensure you know how much load you are pulling. Never exceed the maximum pulling capacity.

✗ **DO NOT** attempt to increase pressure by increasing pump leverage through putting an extension on the handle of the pump.

✓ Ensure the hydraulic hose is not bent or kinked.

✓ Use in conjunction with Sealey hydraulic pump, chains, hooks, etc only. **DO NOT** use pumps or accessories other than those supplied with kit, or contact your local supplier for details of Sealey hydraulic pumps and pulling accessories. Non-genuine items may damage unit and void warranty.

✓ Ensure there is positive engagement of straightener chains, claws, hooks, supports etc. to the chassis or vehicle body before pulling. Get a colleague to double check the all the clamps, supports etc. are fully tightened and chains firmly located before using the pump to start a pull.

✓ Should jacks be employed in the operation, ensure they are of the appropriate type and capacity, are in good condition and that you follow any instructions relating to the jack. Also ensure correct stress supports are used between the jack and jacking surfaces.

✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non slip shoes.

✓ **BE CERTAIN THAT THE VEHICLE BEING WORKED ON IS PROPERLY PREPARED AND SECURED. When pressure is applied there exists the possibility of body parts giving way suddenly and the vehicle moving in what could be a dangerous way.**

❑ **WARNING!** Keep your hands, body and clothing away from the chassis and straightener accessories in use. Take any necessary precautions to protect your personal safety whilst using the straightener.

✓ Keep non essential persons away from the operating area. Be aware of the location of other persons assisting you.

✓ When releasing tension from the load be sure to undo the hydraulic valve **VERY** slowly.

✗ **DO NOT** operate the straightener if any parts are damaged or missing as this may cause failure or possible personal injury.

- ❑ **WARNING! DO NOT** use straightener as a lifting device of any type. **DO NOT** use for any purpose other than for which it is designed.
- ✗ **DO NOT** pull chains or cables over or around sharp corners.
- ✗ **DO NOT** heat chains or accessories as this may weaken them.

2. INTRODUCTION

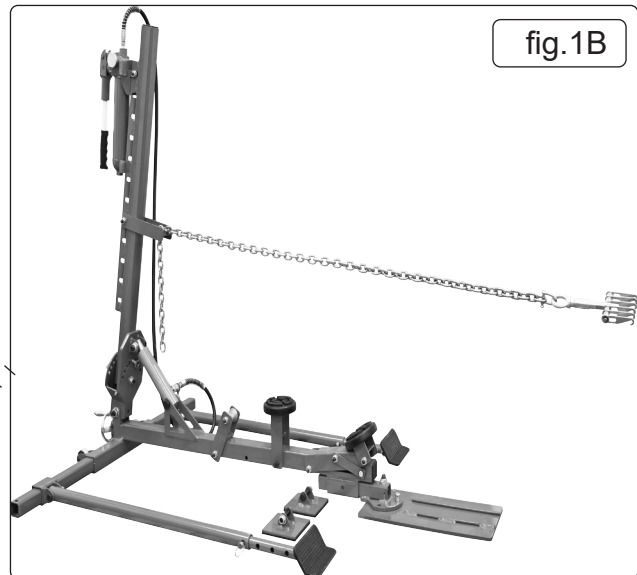
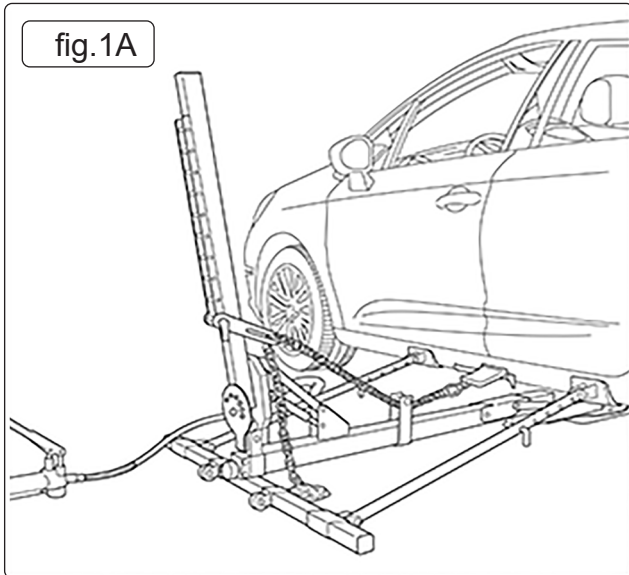
Heavy-duty repair kit for straightening bent chassis and body damage. Variable position upright allows eight preset angles of pull plus a ninth upright position. Supplied as standard with manual hydraulic pump and ram.

3. SPECIFICATION

Model: DZRE22

Contains: Chassis Pulling Tower, SuperSnap Hydraulic Pump & Ram, Chain, 6 claw Pulling hook, Sill Support Arms (x2), Wheel Base Plate

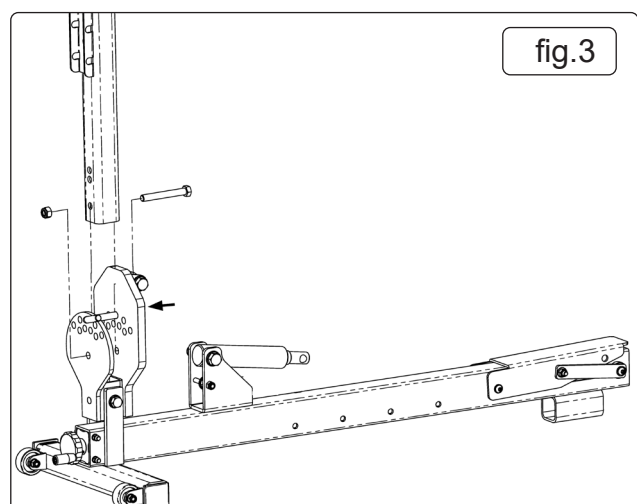
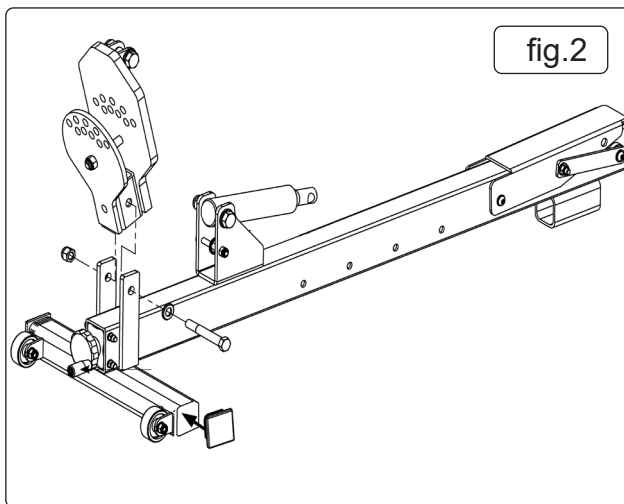
Weight: 57kg

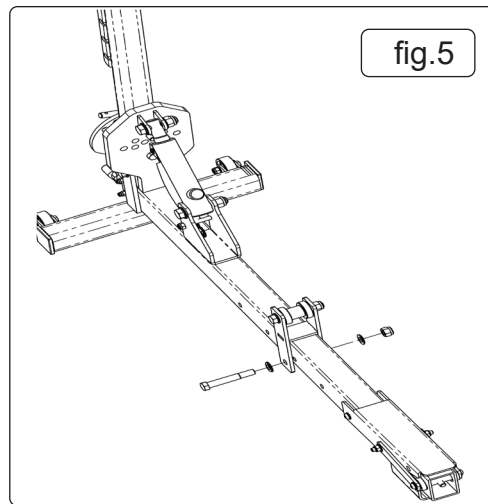
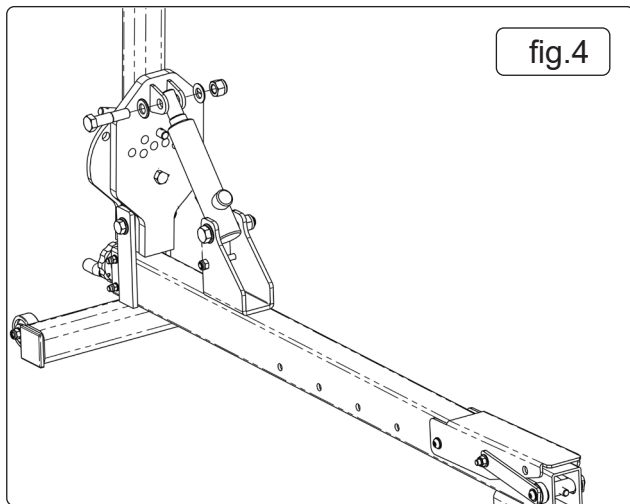


4. ASSEMBLY

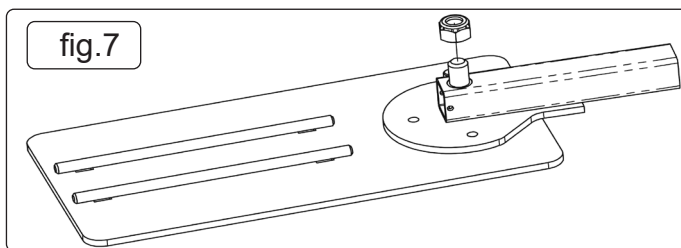
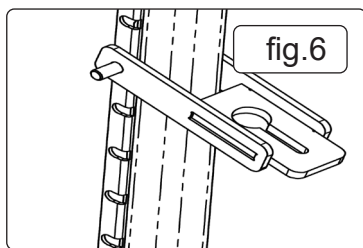
NOTE: Refer to attached Parts information for item number descriptions.

- 4.1. Assemble the Tilting Support (16) to the horizontal part of the Main Beam (4) using the M12x90 screw and nut (fig.2).
- 4.2. Connect the Post (1) to the Tilting Support (16) using the M12x90 screw and nut. Position the angle adjustment Lock Pin (17) to keep the Post (1) vertical (fig.3).





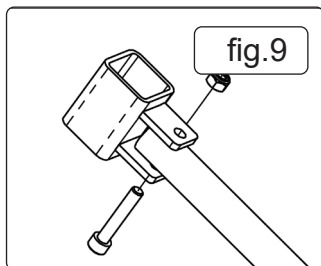
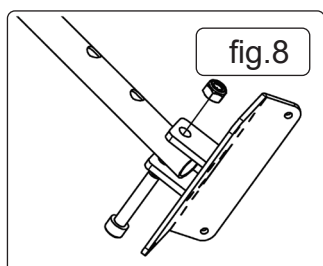
- 4.3. Bolt the Push Ram (3) in position to the Tilting Support (16) (fig.4).
- 4.4. Attach the Chain Guide (5) and Chain Roller (6) which will allow the chain to pass through and up to the vehicle body (fig.5).
- 4.5. Fix the Support Bar (2) on the vertical Post using the M10 fixings provided (fig.6).
- 4.6. The hydraulic pump (49) can be used either floor mounted or supported on the Post (49) using the Pump Support Base (26). Connect the Pump (49) to the Push Ram cylinder connection (3).
- 4.7. Fix the Connecting Tube (29) to the Support Tube (31) using the supplied fixings and slide onto the Seat Post (28) (not shown) (fig.9).
- 4.8. Fix Pump Base Support (26) to top of Post (1) using the supplied fixings.
- 4.9. Fix the Support Rotating Assembly (41) and its Rubber Pad (52) to a suitable initial location on the Main Beam (4) using supplied fixings.



5. OPERATION

NOTE. The height location of the Support Bar (2, fig.6) on the Post (1), will need to be adjusted to suit both vehicle and the height of the repair.

- 5.1. Firstly, rings or tabs must be welded or glued to the bodywork to allow the double claw foot chain to be attached. Pass a rod through the rings/tabs to allow the chain to be pulled through. The claw can be positioned in two different ways on the vehicle to allow for easy pulling.
- 5.2. The path of the chain will depend on the height of both vehicle and the height of the repair. For lower down repairs it is advisable to run the chain under the Chain Roller (6, fig.5).
- 5.3. Select and fit the appropriate Backing Plate (32 or 40) to suit the surface being used for resistance.
- 5.4. Adjust the angle of the Support Tubes (31) to suit the resistance location on the vehicle by loosening the bolts (30) holding the tubes.
- 5.5. Adjust the extension of the Telescopic Tubes (35) to suit the arrangement of vehicle and straightener.
- 5.6. Adjust the location of the Support Rotating Assembly (41) on the Main Beam (4) to suit the arrangement of vehicle and straightener.
- 5.7. If the vehicle has a lip under the chassis beyond the sill, use the Support Frame (Short) (42) to lock the frame in place by raising it up using the Handwheel (20) to reach the required height.
- 5.8. Adjust the angle of the Post (1) by rotating it to alternative angles using the range of mounting positions on the Tilting Support (16, fig.3)
- 5.9. If the area that needs to be straightened is located near a wheel, position the vehicle's wheel directly on the Backing plate. The plate is designed to rotate, allowing it to automatically align with the desired pulling direction. If extra stability or reach is needed, you can attach a support using the telescopic extensions.



6. MAINTENANCE

IMPORTANT: Only fully qualified personnel should attempt maintenance or repair to the hydraulic system.

6.1. PUMP OIL LEVEL

6.1.1. Release pressure and disconnect the ram from the pump.

6.1.2. Hold pump in an upright position.

6.1.3. Remove filler plug and add hydraulic oil until it is level with the full mark on the pump stem.

❑ **WARNING! DO NOT** use brake fluid, or any fluid other than hydraulic jack fluid as this may cause serious damage to the product and will invalidate the warranty! Use only Sealey hydraulic oil (Sealey Part Number: HJO500MLS/HJO5LS)

6.1.4. Before each use check for broken, cracked, bent, or loose parts, or any visible damage to welds, ram, pump and hose, nuts, bolts, pins, jaws, clamps, beam, stands, chains, hooks and other fasteners. If any suspect item is found remove from service and take necessary action to remedy the problem.

6.1.5. Replace/repair with genuine parts only. Non genuine parts may be dangerous and will invalidate the warranty.

6.1.6. Keep all parts of the unit clean, oil wheels every three months.

IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THE PUMP.

Hydraulic products are only repaired by local service agents. We have service/repair agents in all parts of the UK.

✱ **DO NOT RETURN PUMP TO US.** Please telephone us on 01284 757500 to obtain the address and phone number of your local dealer. If product is under guarantee please contact your Sealey stockist.

6.2. DE-COMMISSIONING HYDRAULIC PUMP

6.2.1. Should the pump 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.

7. END OF LIFE

7.1. Dispose of elements according to local, regional and national requirements. Refer to footers.



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.



REGISTER YOUR
PURCHASE HERE

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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