



OPERATION MANUAL

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REPAIRS MAINTENANCE AND INSPECTION PROCEDURES

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PROCEDURE FOR REPLACING WORN AND DAMAGED PARTS

TO REPLACE THREADED ADJUSTING SCREW FOR MODELS: S1 - S20, R1 - R2, P1 - P8, BFC1 - BFC2

STRIP DOWN

- A. Remove handle securing pin using correct diameter punch, wind off handle.
- B. Remove shackle pin, wind off left and right hand side frames, (where adjusting screw is damaged it may be necessary to cut away damaged area to allow screw to be removed).
- C. Check for wear in other parts of clamp.

RE-ASSEMBLE

- D. Install new adjusting screw winding left and right hand side frames equally to centre land area of screw.
- E. Replace shackle and shackle bolt, fit new shackle bolt locking nut.
- F. Wind on handle and secure with new spring pin.
- G. It is advisable that all parts be well lubricated before being put into place.

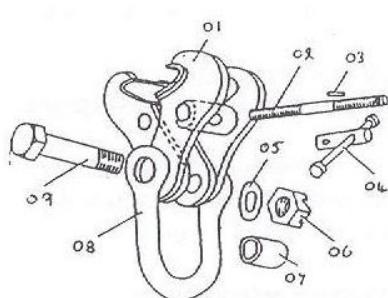
TO REPLACE THREADED KNUCKLES FOR MODELS: S11 - S20

STRIP DOWN

- A. Remove handle securing pin using correct diameter punch, wind off handle.
- B. Remove knuckle securing pins.
- C. Remove knuckle and adjusting screw assembly, wind off old knuckles from adjusting screw.

RE-ASSEMBLE

- D. Wind on new knuckles left and right hand, ensuring both are equally to centre land area of screw.
- E. Re-fit onto clamp side frames using securing pins provided.
- F. Wind on handle and secure with new spring pin, lubricate with grease.



No	Description	Qty.
01	Side Frame	2
02	Adjusting Screw	1
03	Securing Pin	1
04	Handle	1
05	Washer	4
06	Nut	1
07	Spacer	1
08	Shackle	1
09	Bolt	1

TO REPLACE GEARING FOR MODELS GBT1 - GBT5

STRIP DOWN

- A. Remove locking nut on front of chainwheel.
- B. The chainwheel is held in position by a woodruff key. Draw chainwheel and chainwheel centre from drive shaft.
- C. Remove woodruff key from drive shaft.
- D. Remove drive shaft from wheel plate. Ensure drive shaft bush is not damaged.

RE-ASSEMBLE

- E. Re-assemble gearing as above in reverse order.

TO REPLACE BEARINGS ON MODELS: BA1 - DA3, B1 - B3, GBT1 - GBT5, A1 - A3

STRIP DOWN

- A. Remove wheel and wheel axle from wheelplates.
- B. Press out axle from bearing.
- C. Remove internal circlip from back of wheel and press out old bearing.

RE-ASSEMBLE

- D. Ensure all components are cleaned thoroughly and press in new bearing.
- E. Replace internal circlip.
- F. Press wheel axle into bearing (ensuring wheel spins freely on axle).
- G. Fit completed assembly back onto wheelplate.

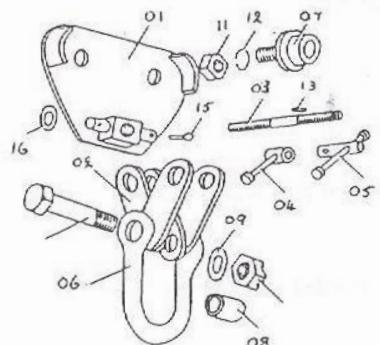
TO REPLACE THREADED ADJUSTING SCREW FOR MODELS: BA1 - BA3, B1 - B3, GBT1 - GBT5

STRIP DOWN

- A. Remove handle securing pin using correct diameter punch, wind off handle and locking collar.
- B. Remove shackle pin, wind off left and right hand wheelplates, (it may be necessary to cut away damaged area of adjusting screw to allow screw to be removed).

RE-ASSEMBLE

- C. Fit new adjusting screw winding left and right hand wheelplates equally to centre land area of screw.
- D. Replace shackle and shackle pin. Renew shackle pin self locking nut.
- E. Wind on locking collar and handle. Secure handle with new spring pin. Lubricate with grease.



No	Description	Qty.	No.	Description	Qty
01	Side Frame	2	09	Washer	4
02	Link Arm	4	10	Locking Nut	1
03	Adjusting Screw	1	11	Plain Nut	4
04	Locking Collar	1	12	Spring Washer	4
05	Handle	1	13	Securing Pin	1
06	Shackle	1	14	Bolt	1
07	Wheel/Spindle/ Bearing	4	15	Split Pin	4
08	Spacer	1	16	Washer	4

IMPORTANT INFORMATION

SAFETY AND HEALTH

Suppliers are generally required to make available information relating to articles supplied to ensure that when put to proper use they are safe and without risk to health.

Experience over many years has not shown up any particular problems with regard to Health and Safety in connection with the products we manufacture and supply providing:

1. They are used for the purpose for which they were designed.
2. They are not loaded beyond their rated safe working load.
3. They are properly maintained.
4. They are regularly inspected and tested in accordance with the relevant statutory regulations.
5. They are used by competent persons trained in their applications.

WARNING

Our products are marked with a Maximum Safe Working Load which must not be exceeded. The manufacturers do not accept any liability for damages which may result from the product being used in excess of the Safe Working Load.

Ensure that existing end stops on runway beams will accommodate 'SUMPERCLAMP' Trolleys.

On occasions we supply replacement component parts for articles of Lifting Equipment but we do not accept any responsibility for these unless they are installed by a person with appropriate knowledge and ability and the Statutory tests and inspections are carried out on completion of repair.

Unless we are informed at the time of enquiry and order regarding particular hazardous environmental conditions all equipment is supplied on the assumption that it will be used in normal atmospheric and temperature conditions as applicable within the United Kingdom.

SAFE WORKING LOAD

This is the maximum load which can be applied to the product in service.

It is of the utmost importance to Health and Safety to ensure that "SUPERCLAMP" products are only attached to structures, materials or other lifting components which are authentically and authoritatively approved and recommended to carry or sustain the maximum safe working loads to be applied.

All of our devices exceed the Titale 29CFR Part 1910, 1918 and 1926 of the Federal and O.S.H.A. Codes and Regulations as applicable.

ADDITIONAL INFORMATION

Our contribution to SAFETY is in securing the QUALITY and RELIABILITY of our 'SUPERCLAMP' products.

Each 'SUPERCLAMP' product is proof tested to twice the safe working load, unless otherwise stated or required by authoritative recommendations. Tests to destruction ensuring a 5-1 factor of safety are employed throughout the design, development, and manufacturing process of our products where required.

Our distributor network will provide active and consultative support to assist in the selection of safety equipment to suit your lifting gear applications.

Should our range of 'SUPERCLAMP' products not fulfil your immediate requirements, then please contact your nearest authorised 'SUPERCLAMP' supplier who will gladly quote for any special applications.

Descriptions and illustrations in the Technical Data Guide are intended merely to present a general idea of the goods described and do not form the basis of a contract unless specifically confirmed by the manufacturer in writing.

We reserve the right to modify information given in this publication without notice.

"SUPERCLAMP products are supplied in standard colours - yellow enamel or white semi gloss, unless on special order.

Measurements shown in this publication are approximate averages.

Our Standard Conditions of Sale apply and are available upon request.

Due to our intensive product development programme, specifications may have changed, please check with your 'SUPERCLAMP' distributor before purchase.

Technical Data Guide No. 7 renders all previously published "SUPERCLAMP" Technical Data Guides, Wallcharts and General Information obsolete. This does not affect the validity of our Operators Guidelines Publication which is available upon request.

GUIDELINES FOR THE INSPECTION AND SAFE USE OF 'SUPERCLAMP' EQUIPMENT

INSPECTION OF 'SUPERCLAMP' EQUIPMENT

1. GENERAL:
Follow all requirements of laws, rules and regulations applicable in your country pertaining to lifting operations, ensuring all maintenance testing, inspection and operator requirements are strictly adhered to. This is in your interest, and can prevent fatal accidents and industrial disaster.
2. CHECKLIST:
 - * is any part of the equipment distorted?
 - * are any cracks visible, or is extensive corrosion evident?
 - * is any wear evident at suspension points, wheels, shackles, gears, pivots, pins, bolts, threads, springs, or other moving part?
 - * are locking arrangements functional and safe?

- * are the safe working load, the serial number and other markings legible?
- * have all inspections or tests been regularly recorded? If not re-certification should be carried out before use.
- * does the 'SUPERCLAMP' equipment carry it's original identification markings?

SAFE USE OF 'SUPERCLAMP' EQUIPMENT

1. Ensure that the selected 'SUPERCLAMP' equipment is of a suitable type for the lifting or suspension operation you intend to undertake.
2. Ensure that structures to which 'SUPERCLAMP' equipment may be fitted are of adequate design and comply with all legal requirements. Structures designed for lifting operations purposes are usually marked with the maximum Safe Working Load which may be applied. Ensure that structures are tested certified to such use and that the appropriate certificate is up to date.
3. Never stand beneath a suspended load.
4. 'SUPERCLAMP' products are primarily designed for in-line use only and the equipment is thus marked. Never use 'SUPERCLAMP' products for sideloading applications unless this is specifically recommended on the original 'SUPERCLAMP' identification marking affixed to the unit. If the identification marking states that the unit must be used at 0° (zero degrees) only, then no side loading/angle loading is permitted
5. 'SUPERCLAMP' products must not be attached to defective structures or materials. Ensure that runway beams are fitted with end stops and are free from any defects. Should a defect on a runway beam or structural member be observed, remove the 'SUPERCLAMP' unit immediately and report your observations to the person in charge.
6. When selecting 'SUPERCLAMP' products, ensure that the calculated Safe Working Load requirement allows for any additional weight of equipment which may be suspended together with the original load to enable the lifting operation to take place.
7. Ensure that all mechanisms on 'SUPERCLAMP' products are working freely before being used for the application intended.
8. Never replace worn components unless these are original 'SUPERCLAMP' parts. Where products are fitted with replaceable jaws, incorporating teeth showing wear, it is strictly prohibitive to recut or resharpen these. Cams or jaws incorporating teeth can be easily replaced with original 'SUPERCLAMP' components available from your approved 'SUPERCLAMP' distributor.
9. Always ensure that repaired products are inspected and re-tested in accordance with the laws of your country prior to being released for operation.
10. Ensure that all persons using 'SUPERCLAMP' equipment are properly trained in performing lifting operations and competently using this type of equipment.
11. If multipoint lifting operations are undertaken, always ensure that no single point of lift is at any time required to exceed it's maximum Safe Working Load.
12. Never throw or drop 'SUPERCLAMP' equipment, as this may well be hazardous or injure people or plant.
13. If in doubt about the suitability of 'SUPERCLAMP' products for your application, then contact your nearest supervisor.
14. Your nearest 'SUPERCLAMP' distributor will advise on applications if required.

SPECIAL PRODUCTS

Our drawing office is staffed by experienced Design Engineers who can solve your most difficult problems.

SPECIALS

1. Spark Proof Girder Clamps and Trolleys.
2. Anti-Corrosive Girder Clamps and Trolleys.
3. Man Carrying Girder Clamps and Trolleys.
4. Inspection Cages.
5. Fork Lift Attachments.
6. Gantry.
7. Non-Marking Clamps.
8. Low Headrooms Clamps.