



## OPERATORS MANUAL

ATTACHMENT:- MANUAL SPRINGLOCK COUPLER

SERIAL NUMBER .....

MACHINE .....



WHITES MATERIAL HANDLING Ltd.  
17-19 EMERY ROAD  
BRISLINGTON,  
BRISTOL. BS4 5PF. U.K.  
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<http://www.whitesmh.co.uk>

PART NUMBER: WH-CE-0095

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# OPERATORS MANUAL

## FOREWORD

In these Safety and Operating Instructions the following words are defined as follows:-

**'ATTACHMENT BRACKET'**:- A quick coupler assembly which is classed as a machine under the CE/UKCA machinery Directive. Attachments covered under these Safety and Operating Instructions are Manual Quick Couplers and all other attachments which are classed as a 'machine' under the CE/UKCA Machinery Directive

**'MACHINE' or 'HOST MACHINE'**:- A wheeled or tracked Excavator or backhoe loader, which connects to and powers the attachment.

## WARNING



INCORRECT USE OF THIS ATTACHMENT OR FAILURE TO FOLLOW INSTRUCTIONS CONCERNING SAFETY CAN LEAD TO SERIOUS INJURY OR DEATH.

### **BEFORE USING THIS ATTACHMENT:**

1. READ THIS MANUAL CAREFULLY.
2. MAKE SURE THAT THIS ATTACHMENT IS SUITABLE FOR USE ON THE HOST MACHINE.
3. WHERE A MIX / MATCH COUPLER HAS BEEN SUPPLIED THE ATTACHMENTS FITTED TO THE COUPLER MUST ALSO BE SUITABLE FOR THE HOST MACHINE.
4. CLEAR THE AREA OF OTHER PERSONS.
5. LEARN AND PRACTICE SAFE USE OF THIS ATTACHMENT AND HOST MACHINE IN A CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.  
It is your responsibility to observe pertinent laws and regulations in respect of the operation of this attachment and the host machine.

## TO THE OWNER

You are the owner of an attachment that has been built to operate correctly on your host machine.

The attachment conforms to current safety regulations (see OFFICIAL JUSTIFYING DOCUMENTS below).

Before putting this attachment into service please ensure that:-

1. The operator has read and fully understands this operator's manual.
2. The operator has received necessary training on the functions and capabilities of this attachment.
3. The information on the identification plate, which is fixed to the attachment, matches the information on the Declaration of Conformity.

## OFFICIAL JUSTIFYING DOCUMENTS

### UKCA / CE MARKING.

**This quick coupler has been designed and manufactured to the requirements of the machinery directive 2006/42/EC and current EN474 standards and is therefore eligible to carry the CE & UKCA mark.**

<b>WHITES</b>	
MANUFACTURED BY WHITES MATERIAL HANDLING LTD 17/19 EMERY ROAD, BRISTOL BS4 5PF, UK. 0117 9720006	
<b>UK CA</b>	<b>CE</b>
P/N 1:-	
M/C:-	
S/No:-	DATE:-
WEIGHT (Kg):-	BAR (MIN-MAX):-
<small>WH-CE-0205</small>	

## IDENTIFICATION PLATE



# WHITES

Buckets and Attachments for all types of Loading Machines

Whites Material Handling Ltd  
17/19 Emery Road,  
Brislington Trading Estate  
Bristol BS4 5PF, United Kingdom  
Telephone: +44 (0)117 9720006  
Fax: +44 (0)117 9723296  
E-mail: sales@whitesmh.co.uk  
Internet: www.whitesmh.co.uk

**UKCA**

**CE**

## DECLARATION OF CONFORMITY

DATE OF MANUFACTURE.	CERTIFICATE NO/SERIAL NO.

DESCRIPTION	
PRODUCT	
PART NUMBER	
TO FIT	
WEIGHT	KGS

We, WHITES MATERIAL HANDLING LTD., declare under our sole responsibility that the product detailed above corresponds to the relevant basic safety and health requirements of the Directive 2006/42/EC and that the following standards and/or technical specifications have been respected - BS EN474-1:2006 +A1:2009.

FOR AND ON BEHALF OF WHITES MATERIAL HANDLING LTD

Martin Coles - Project Engineer

Form C&L001

Details of Directors are available at Registered Office  
F & B Profiles Limited, Southway Drive, North Common, Warmley, Bristol BS30 5LW  
Registered in England No. 1248229



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E-mail: sales@whitesmh.co.uk  
Internet: www.whitesmh.co.uk

## LIFTING CERTIFICATE

### THE RATED LIFTING LOAD (RLL) FORMERLY SWL OF A QUICK COUPLER

DATE OF MANUFACTURE.	CERTIFICATE NO. SERIAL NO.

PART NUMBER	TYPE	RLL KGS
	2M-2H	1000 KGS
	3M-3H	2000 KGS
	4M-4H	2500 KGS
	5M-6H	3500 KGS
OTHER AS SPECIFIED		

THE UNDERSIGNED CONFIRMS THAT THE COUPLER DETAILED ABOVE HAS BEEN DESIGN PROOF TESTED TO LIFT THE LOAD STATED, AND COMPLIES WITH THE REQUIREMENTS OF BS EN474-1:2006 +A1:2009, ANNEX E, SECTIONS E.3.2.1 AND E.3.2.2.

**IMPORTANT INFORMATION.** NEVER LIFT LOADS WHICH EXCEED THE RATED LIFTING LOAD OF THE COUPLER OR THE RATED OPERATING/LIFT CAPACITY OF THE EXCAVATOR.

FOR AND ON BEHALF OF WHITES MATERIAL HANDLING LTD

Form C&L001

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Registered In England No. 1248229

## **SECTION 1**

### **NON-SPECIFIC SAFETY, OPERATION AND MAINTENANCE INSTRUCTIONS**

#### **1.1 GENERAL SAFETY RULES:**

This attachment has been designed and built according to the state of the art and meets current safety regulations in force. However, this does not completely exclude the risk of accidents. It is therefore essential to follow basic safety rules and precautions.

The strict execution of the instructions provided in this manual will prevent accidents during attachment use and maintenance operations.

These instructions will only be effective if the attachment receives proper maintenance.

Any defects or anomalies must be repaired immediately.

Only use this attachment for the purpose for which it was designed.

#### **1.2 BEFORE YOU OPERATE THE ATTACHMENT:**

Please be aware that this attachment is designed to be used in conjunction with the host machine. It is essential, therefore, to be fully conversant with the correct operating procedures and safety instructions of the machine. Familiarise yourself with the attachment, and the loads to be carried.

#### **1.3 OPERATING THE ATTACHMENT:**



#### **NEVER GET ON OR OFF A MOVING MACHINE**

Get to know the machines possibilities and the working space required.

Dust, fog, smoke etc. can reduce visibility and cause an accident. Operate with extreme caution in these conditions.

Before starting work, check that the attachment is properly connected to the host machine and that all the functions operate correctly.

Never carry any person on the attachment.

Make sure there is nobody standing near the attachment.

Do not allow anyone to stand in the 'Danger Zone' (operating area).

Keep away from dangerous areas, such as ditches, overhangs, cliffs, etc. Look for hazards.

Use all the controls gradually so that the attachment works smoothly.

When operating or servicing a coupler, wear suitable protective clothing.

#### 1.4 FAILURE DURING OPERATION:

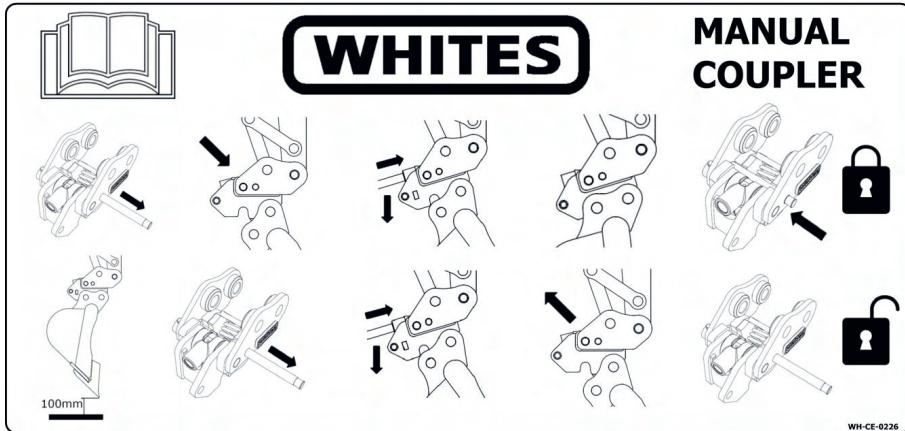
If an attachment failure occurs during operation, disconnect the attachment from the host machine and take measures against its use until a satisfactory repair has been carried out.

#### 1.5 SAFETY DECALS:

An illegible or missing decal may have serious consequences.

Replace safety decals that are missing or damaged.

#### CAB STICKER



#### DIPPER STICKER





## SECTION 2.

### SAFETY DURING OPERATION

#### 2.1 INSPECTION:

UPON DELIVERY; Check for transport damage.

**2.2 APPLICATION:** For all earth moving, and load handling operations refer to the machine manufacturer's handbook for correct use of machine and its controls. Ensure that the attachment is suitable for the work in hand. e.g. check that the capacity of the attachment is matched to the density of the load.

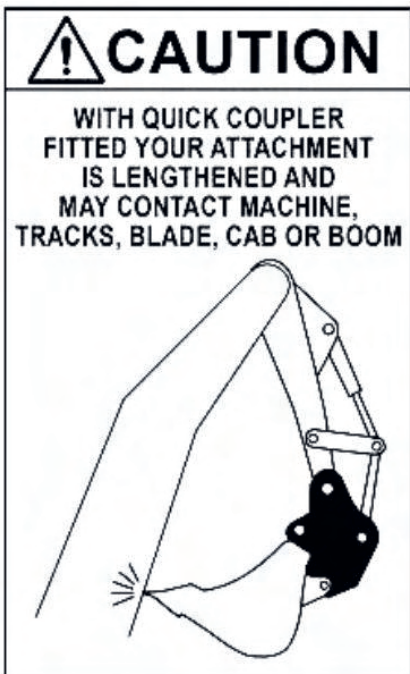
**Always carry the load low!**

**2.3 SITE FAMILIARITY:** Before operating the machine and attachment on a new site, check and locate any holes, obstacles, and debris that could be in the machine area. Locate any unavoidable 'danger areas' (electric power lines, bridges, tight corners, etc.) and make sure you can work safely in these areas.

Electric power lines, gas pipes, water pipes or other underground installations can cause injury or death. Find out about the location of underground installations before you operate the attachment in a new area.

Be aware of people in the vicinity of the attachment. Send away those whose presence is not required.

**2.3.1 PRODUCT FAMILIARITY:** Before operating the machine and attachment always check the clearance between attachment and machine. Fitting a coupler can lengthen the attachment, and it may contact machine, tracks, blade, cab or boom.



## 2.4. NORMAL USE:



This attachment is designed to operate with the host machine under normal working conditions. Care should be taken if weather or site conditions become difficult. Operate the attachment carefully and smoothly in poor weather and on uneven sites.

**2.4.1 OTHER USES:** This attachment is designed for a specific application. Do not carry out different applications with this attachment before first checking with Whites or their Agent.

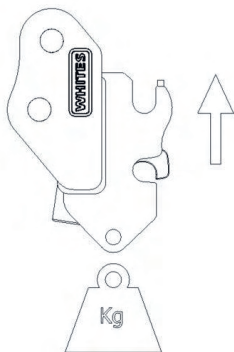
**2.4.2 HYDRAULIC HAMMERS AND VIBRATING COMPACTION PLATES:** Avoid prolonged use of these attachments as the vibration will accelerate wear.

**2.5 HANDLING AND TRANSPORTATION:** Buckets and attachments can become unstable when not connected to their host machine. Great care should be taken when handling or transporting attachments. Personnel should be made aware of the risk of injury if due care is not taken. When transporting, always ensure that the attachments are securely strapped or roped to the carrying vehicle.

**2.6 LIFTING EYE:** When couplers are supplied with a lifting eye care should be taken during lifting operations.

The rated lifting load of each coupler is stamped on the edge of the coupler near the lifting eye.

Never lift loads which exceed the RATED LIFTING LOAD of the coupler or the RATED OPERATING LIFT CAPACITY of the excavator. Refer to the machine manual for these capacities.



Always use suitable 'D' shackles chains and straps.

Always lift load with lifting eye at the lowest point.

## SECTION 3.

# SAFETY DURING MAINTENANCE



### 3.1 BEFORE CARRYING OUT ANY SERVICE WORK ON THE ATTACHMENT:

Park the host machine on a hard level surface.

Lower the attachment to the ground.

Apply the parking brake (where applicable) and shut down the engine.

Block the machine to prevent any movement.

When servicing the attachment, place a 'DO NOT START UP' label on the control panel of the machine.

Modifying the attachment without prior permission can cause serious injury. Do not undertake any modification without prior authorisation from White's or their Approved Agent.

Always wear eye protection when using a tool that may project metal particles. Use a hammer with a soft face, such as copper, for installing pins.

Take the necessary safety precautions (safety clothing and protection for the face and hands) to avoid such risks. Also, before using these products, read the manufacturer's instructions for their use.



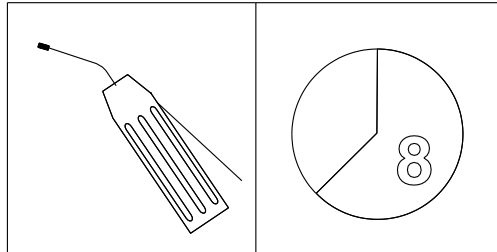
### 3.2 GENERAL MAINTENANCE INSTRUCTIONS

See maintenance instructions 6.2.

When ordering replacement parts always quote the part number and attachment serial number.

### 3.3 LUBRICATION: DAILY OR EVERY 8 HOURS OPERATION

Grease all grease points with Moly disulphide Grease, every 8 hours.



## SECTION 4

### SPECIFIC INSTALLATION INSTRUCTIONS

#### 4.1 ALL WHITES COUPLERS

Upon receipt of your Whites Coupler check the contents of the delivery against the packing list and advice note.

Fit coupler to the machine's dipper arm using the pins supplied with the excavator.

IF PINS ARE SUPPLIED WITH THE COUPLER DO NOT FIT THEM TO THE DIPPER ARM or TIPPING LINK. THESE PINS ARE FOR USE IN BUCKETS ONLY

Decal Positions:- Position the Safety Warning Label in a visible position inside the cab. Apply the dipper decal to the dipper arm.

#### 4.2 ALL BUCKETS WHICH ARE TO BE CONNECTED TO A WHITES COUPLER

Fit two pins into the standard bucket locations on the top of each bucket.

Always ensure that the pins fit correctly to the bucket. Do not use worn or damaged pins. Do not use pins of an incorrect diameter.

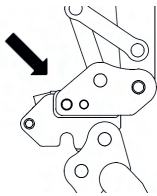
## SECTION 5

# OPERATING INSTRUCTIONS

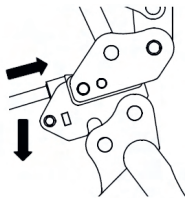
### 5.1 WHITES MANUAL COUPLERS – TO PICK UP A BUCKET



Remove the lynch pin.  
Retract the safety pin to the unlocked position.

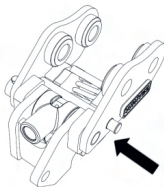


Align and hook the fixed open jaw of the coupler around the front bucket pin



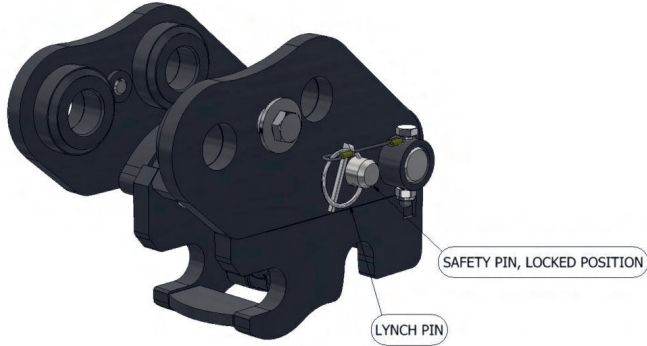
Raise bucket clear of the ground, partially crowd bucket,  
Insert release bar and push down.

Allow bucket to swing into position. Remove release bar.  
Visually inspect the coupler to ensure that the rear latch is locking the rear pin.  
Push the safety pin into the locked position. Replace lynch pin.

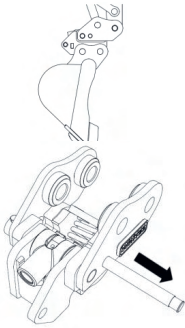


Push safety pin into the locked position & secure with lynch pin.

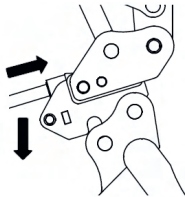
## 5.2 WHITES MANUAL COUPLERS – TO DISCONNECT A BUCKET



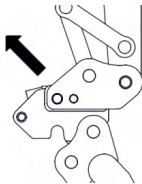
Position the bucket approximately 100 mm above the ground at an angle where the two bucket pins are horizontal.



Remove the lynch pin.  
Retract the safety pin to the unlocked position.



Insert the release bar and push/pull down.



**CAUTION! BUCKET WILL SWING DOWN AT THIS STAGE AND MAY DISENGAGE FROM COUPLER. ALWAYS STAND CLEAR AS YOU PERFORM THIS OPERATION.**



Return to cab. Roll coupler backwards, away from the cab, and the bucket and coupler will disengage.

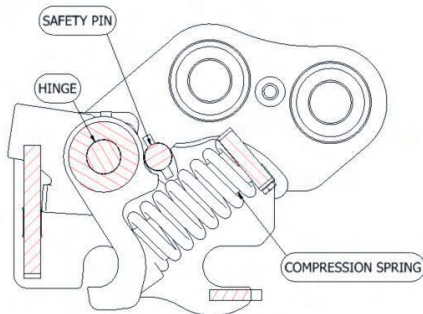
## SECTION 6

# TESTING & MAINTENANCE

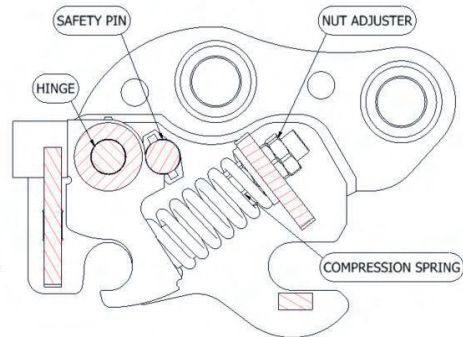
### 6.1 MANUAL COUPLER – DAILY CHECK

- Check the movement and retention of the safety pin.
- Check that the compression spring is not broken.
- Check there is tension on the compression spring when the coupler is in the locked position. Adjust as necessary using nut adjustment as shown below. Not available on PX2M models.
- Check for free movement and excessive wear in the hinge and contact points of the coupler

PX2M RANGE



PX3M/PX4M/PX6M RANGE



**WARNING.** At all times be aware that the couplers have moving parts and powerful mechanical components. When testing or maintaining couplers keep hands and feet clear at all times. Always wear adequate protective clothing to avoid injury.

### 6.2 MAINTENANCE

- Check couplers for damaged or missing parts and loose pins. Repair or replace as necessary.
- Check that all lynch pins, collars and bolts are in place and undamaged.
- Check structure and welds for signs of defects.
- Ensure coupler is kept free from build up of dirt, mud, concrete and stones which will impact on the operation and safety of the coupler.
- Check for excessive wear on locking jaw, pins and hinge pins.
- Lubricate all grease points with Moly disulphide grease – daily.
- Where parts need replacing ALWAYS replace with genuine parts.

## SECTION 7

# WARRANTY

### Twelve Months Limited Warranty

If within six months from the date when the coupler is first installed or delivered, any defect appears in the Coupler which is due to faulty material or poor workmanship, the Seller will remedy such defects at its option either by replacement or repair of the defective parts free of charge PROVIDED THAT full details of such defect, including photographic evidence where appropriate, are notified and confirmed in writing to the Seller within 7 days of the defect first appearing.

If in the period from six months to twelve months from the date when the coupler is first used, any defect occurs which is due to faulty material or poor workmanship, the Seller will replace the defective parts free of charge but will not pay for the labour costs involved in the removal and/or refitting of the defective parts

PROVIDED THAT full details of such defect, including photographic evidence where appropriate, are notified and confirmed in writing to the Seller within 7 days of the defect first appearing.

The Purchaser shall either return the defective coupler or part of the coupler to the Seller (which shall be at the Seller's expense if the coupler or part of the coupler is found to be defective and at the Purchaser's expense otherwise) or shall make available the defective coupler for inspection by the Seller before repair or replacement can be effected.

On proper notification of the defect the Seller may at its sole option sign an authorisation to proceed permitting the Purchaser to arrange for the repair or replacement of the Goods. The Seller will be liable for the Purchaser's costs of repair and replacement insofar as such costs shall have been agreed by the Seller prior to the commencement of the work. The Seller is not liable for any travelling and/or overnight costs which might occur during the repair of the Coupler.

Once authorisation to proceed has been granted and the amount of the Purchaser's costs agreed, the Seller will issue a credit note to the Purchaser against the original sales invoice to cover the agreed cost of repair or replacement. The Seller will not meet any costs of repair or replacement not previously agreed by it.

BUT, this warranty **shall not** apply to the following:-

Defects resulting from fair wear and tear, misuse or failure to carry out the maintenance procedure recommended by the Seller or such maintenance procedures as are reasonable;

Defects in Coupler resulting from the repair or maintenance carried out by someone not previously approved by the Seller or repair or maintenance work not authorised by the Seller; or

Defects which are not notified to the Seller in accordance with the terms set out in these Conditions of Sale.

DEFECTS CAUSED BY EXCESSIVE USE OF HYDRAULIC BREAKERS AND COMPACTION PLATES cause rapid wear to jaws and pins. Couplers should only be used occasionally with a breaker attached.



## **DEFECTS**

The Coupler delivered shall be conclusively presumed to be in all respects in accordance with the contract unless the Purchaser notifies the Seller otherwise within 3 working days of the date of delivery. Claims will only be entertained by the Seller if the Coupler and its component parts are still in the original state.

If the Purchaser establishes to the Seller's reasonable satisfaction that there has been a breach of the warranty or the Coupler is not in accordance with the contract, the Purchaser's sole remedy shall be limited (at the Seller's option) to the replacement of the Coupler or a refund of the purchase price in each case (other than for non receipt) against return of the Coupler. Couplers delivered in accordance with the contract may not be returned without the Seller's express agreement and on such terms as it thinks fit.

## **LIABILITY**

Nothing in these conditions affects the statutory rights of a Purchaser where the Coupler is sold to a person dealing as a consumer (as defined in the Unfair Contract terms Act 1977). Nothing in these conditions shall exclude the liability of the Seller for death or personal injury resulting from its negligence insofar as the same is prohibited by a United Kingdom statute.

Save as expressly provided in these conditions, all terms, conditions, representations and warranties (whether expressed or implied) are excluded to the fullest extent permitted by law.

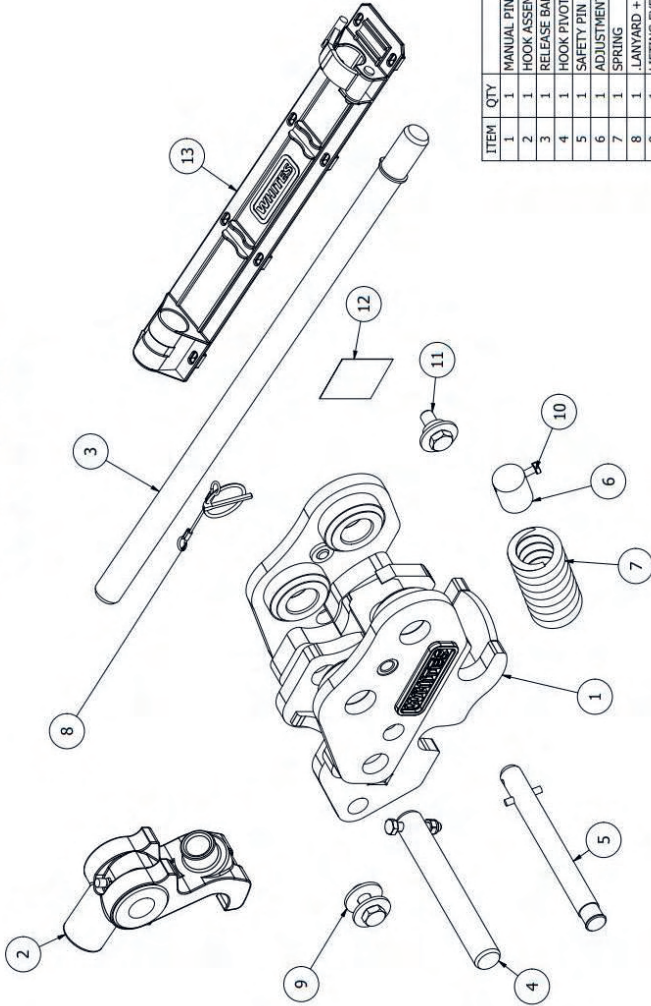
Subject to any other limitation or exclusion of liability in these conditions, the maximum aggregate liability of the Seller, its employees and agents for breach of any contract or otherwise in connection with that contract (including for breach of any statutory duty and any tortious act or omission including negligence) shall so far as permitted by law be limited to the price paid to the Seller under the contract.

The Seller shall not be liable for any loss of profits or goodwill nor any special, indirect, economic or consequential loss.

The Seller shall not be liable for any delay or failure in the performance of its obligations under any contract to the extent due to circumstances beyond its control. Time for delivery of Couplers and or Services is not of the essence of the contract.

SECTION 8

PARTS LIST



ITEM	QTY	DESCRIPTION
1	1	MANUAL PIN COUPLER - WA
2	1	HOOK ASSEMBLY - KIT
3	1	RELEASE BAR
4	1	HOOK PIVOT PIN - KIT
5	1	SAFETY PIN - KIT
6	1	ADJUSTMENT SCREW STUD
7	1	SPRING
8	1	.LANYARD + LYNCH PIN ASSEMBLY
9	1	LIFTING EYE BLANKING KIT
10	1	ZINC BOLT
11	2	FLAG SPACER KIT (WHERE APPLICABLE)
12	1	DATA PLATE
13	1	RELEASE BAR HOLDER

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COMPANY.

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BRISTOLTON TRADING EST  
BRISTOL BS4 5PF  
TEL 0117 972006

TITLE  
SPRINGLOCK MANUAL COUPLER  
DRAWING NO.  
PXZM EXPLODED PARTS  
SHEET No.





