



Stock Cube™ No. 320GLR

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UK Design Registration No. 4032805 in the name of David Ritchie (Implements) Limited

Instruction Manual & Operating Guide



Contents

Stock Cube™ - Model 320GLR:-

	Page
Foreword / Intended Use	4
Warranty	5
Safety Information	5
Features and Specifications	6
Handling of Unit by Forklift or Loader	7
Setting Up and Operation	8, 9
Preparing for Transportation	10, 11
Switching Sweep Direction	12, 13
Maintenance	14



Foreword / Intended Use

The Ritchie Stock Cube™ model 320GLR, has been designed for, and is intended to be used by, the agricultural industry purely for the handling of Cattle. The Stock Cube™ has been designed to give maximum safety and to minimise stress in both the animal and the operator.

David Ritchie Implements shall not be liable for damage resulting from inappropriate use of the equipment, i.e. for purposes other than those indicated in this manual. The user shall bear all responsibility.

The right to alter specifications, equipment and maintenance instructions at any time, without notice is reserved as part of our policy of continuous development and improvement.

Owners who encounter a problem should contact David Ritchie Implements Ltd. at the address given on the rear cover of the manual, or consult their local Ritchie dealership.



The Stock Cube™ should only be used by experienced stock persons, who are capable of maintaining a high standard of animal welfare.

Deviations from the intended use should not take place without the notice and approval of David Ritchie (Implements) Ltd.



Warranty

The Stock Cube™ should be checked over at time of delivery for transport damage. Check also that the specification is complete.

All claims must be delivered to the manufacturer in written form within 48 hours.

David Ritchie Implements Ltd. guarantee subject to certain conditions that the goods supplied will be free of defects both in material and workmanship.

The following conditions apply:-

- The equipment should only be used for the purpose indicated in this manual.
- The original specification of the equipment has not been subject to unauthorised modification.

Correct operation of the Stock Cube™ and regular maintenance will help prolong the working life of the equipment.

If however operating trouble is experienced during the warranty period the following actions should be adopted:-

Notify the dealer immediately from whom the Stock Cube™ was purchased.

Do not operate the cube. Damage resulting from failure to report a fault may not be covered by warranty.

The manufacturer cannot accept liability for damage to equipment or third party through operational negligence.

Safety Information

Please read these instructions carefully. Ignoring these instructions could result in personal injury or damage to the equipment.

These instructions apply to all personnel involved with the operation, maintenance and servicing of the equipment.

General

Do not modify any part of the Stock Cube™ unless modifications or additions are approved by the manufacturer. This also applies to welding work.

Do not use the equipment if a malfunction occurs as this could result in damage to the equipment or injury to persons or animals.

Before and During Operation

Ensure that there is sufficient space in the area designated for the Stock Cube™ to allow the operator to work safely and efficiently.

The adjoining Race and Penning to the crate should be of sufficient build for the safety of both animals and operators.

Servicing and Maintenance

Guidance notes are outlined in this manual covering basic servicing procedures and maintenance intervals. These instructions should be adhered to in order to prolong the working life of the equipment. After servicing is complete check all nuts and bolts have been tightened satisfactorily.



Features

- Easy to set-up and use.
- Suitable for both portable and fixed applications.
(Bolt down positions incorporated for fixed installations with pockets for easy handling by forklift or front loader).
- Sweep gate designed with self locking ratchet style catch and spring loaded slip bolt.
- Unique 'creeper' gate eliminates corner trap when operating the main sweep gate.
- Easy access to and from the holding area.
- Operator is behind the cattle and sweep gate whilst in operation.
- Proven successful with horned cattle.
- Can transport up to 20 - 2.5 metre (8') cattle hurdles including pins.
- All sheet metal is 'safe edged'.
- Hot dipped galvanised finish.

The Stock Cube TM is supplied for either left or right hand sweep operation as specified by the customer at time of ordering.

If however the sweep direction has to be changed from left to right or vice versa, instructions are given for conversion on pages 12 and 13.

Specifications

Length	3.35m
Width (in folded transport position)	2.45m
Width (in working position)	5.50m
Width (exit raceway)	0.76m
Overall height	2.26m
Height (curved section)	1.62m
Height (hurdles)	1.62m
Internal Headroom	2.08m
Gross Weight	965kgs



Handling of Unit by Forklift or Loader

Pockets are provided for safe lifting of the cube by forklift or front loader fitted with pallet tines.

Lift slowly ensuring the cube is adequately balanced before moving off.

Take care when travelling over rough terrain to ensure the cube does not slide.

Select a level site where operations are to be carried out. Position the Stock Cube™ on firm, level ground and ensure that there is sufficient area all around to set up the equipment and for safe and efficient operation.

Fig 1 shows the Stock Cube™ folded up in the transport position.

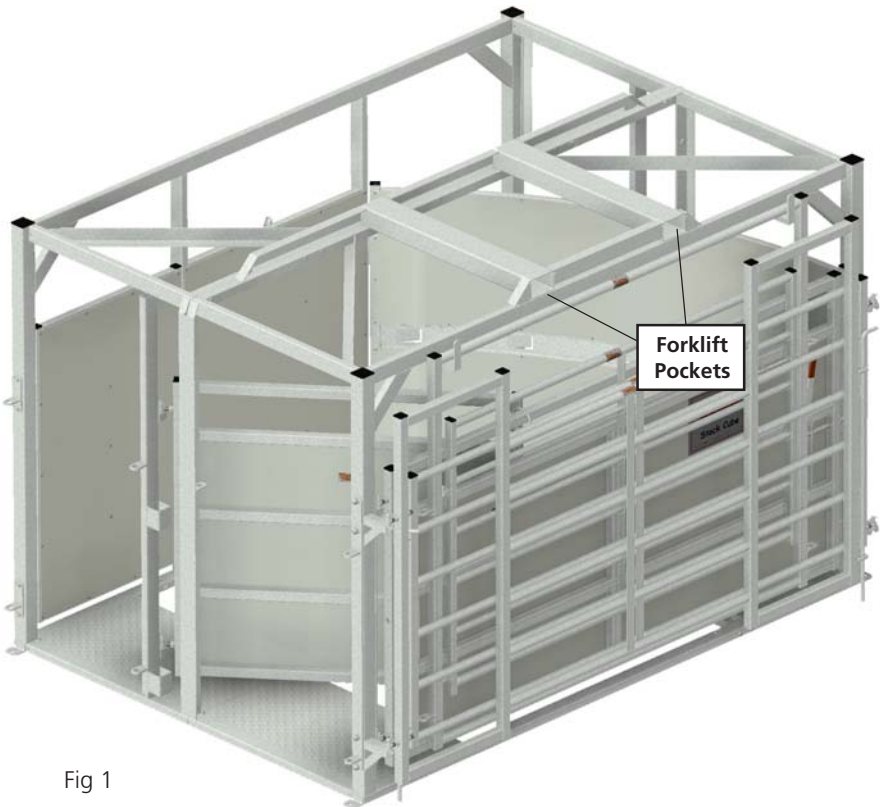


Fig 1



Setting Up and Operation

Unfold and set up the Stock Cube™ as indicated in Fig 2.

Attach chain hook to sliding ring on sweep gate and to keeper on creeper gate, (circled below). Wrap the chain back to give a closer fit but without restricting the free movement of the creeper gate. Additional hurdles can be attached to form a raceway as required. When set up is complete - test all equipment before admitting cattle.

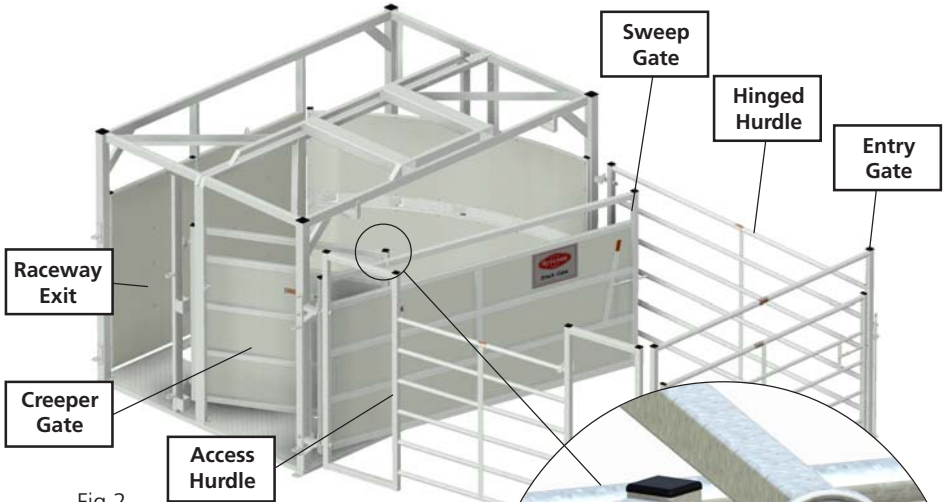


Fig 2

Fully open the sweep gate as shown, Fig 3. This pulls the smaller creeper gate parallel by means of the sliding ring attached to the sweep gate top rail.

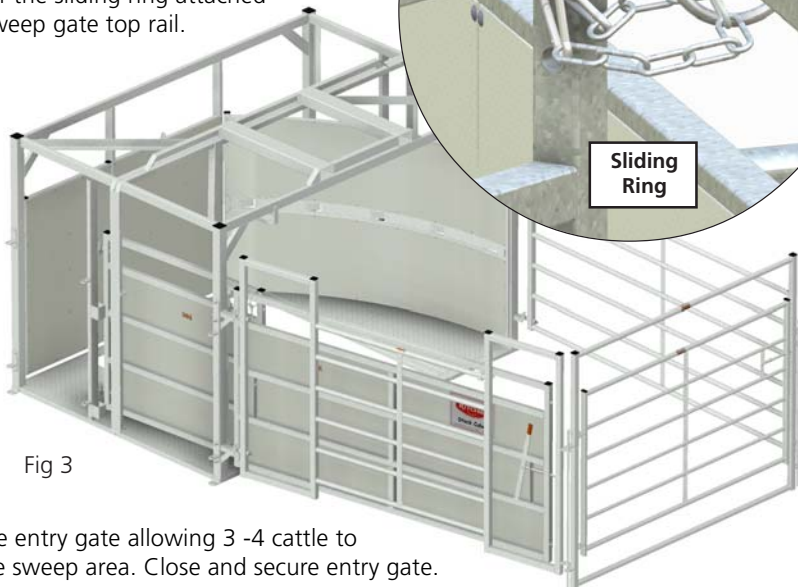


Fig 3

Open the entry gate allowing 3-4 cattle to enter the sweep area. Close and secure entry gate.

Enter the sweep area through the access hurdle closing the sweep gate gradually behind the cattle, Fig 4. Closing the sweep gate also half closes the creeper gate by a roller running along the sweep door mid rail.



Fig 4

Fully closing the sweep door to the last ratchet, Fig 5, brings the creeper door parallel with the exit race removing the dead corner where cattle can turn.

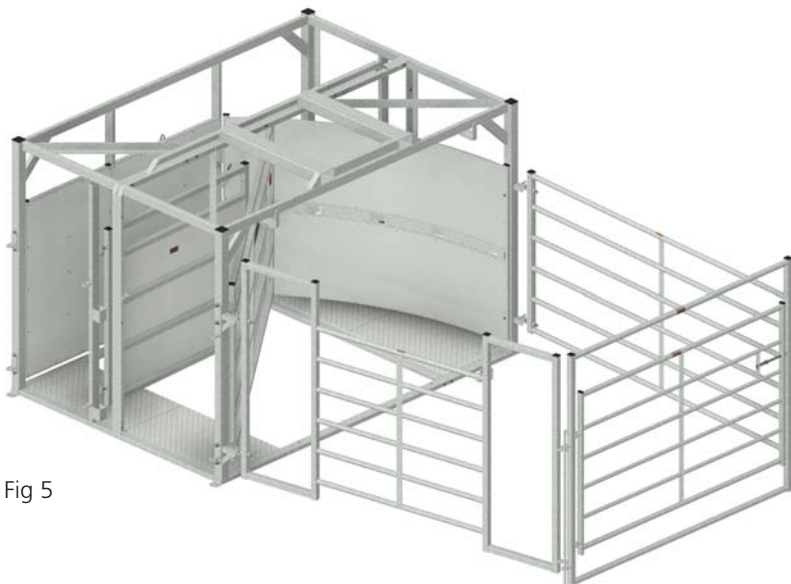


Fig 5

Preparing for Transportation

Detach chain from ring and keeper to free creeper gate from sweep gate.

Lay chain aside for re-use.

Swing creeper gate inward toward raceway exit.

Fit hurdle support pole to hole provided in stock cube floor and secure to central cross member using lynch pin, Fig 6.

Slot hurdle rest stop into main frame allowing opposite end to sit over hurdle lug attached to frame upright (circled - Fig 7). The first hurdle to be stacked is then positioned over the hole in the rest and secured with hurdle pin.

Continue lifting hurdles into cube (correct way up) with lugs resting on rest stop.

When hurdles (up to 20) are all stacked - use hurdle clamp, Fig 8, to secure hurdles to

support pole.

Fit hurdle pin through outer hurdle lug and nearest available hole in both rest stop and hurdle clamp to restrain hurdles during transportation. Further secure with ratchet strap to bind hurdles.



Fig 6

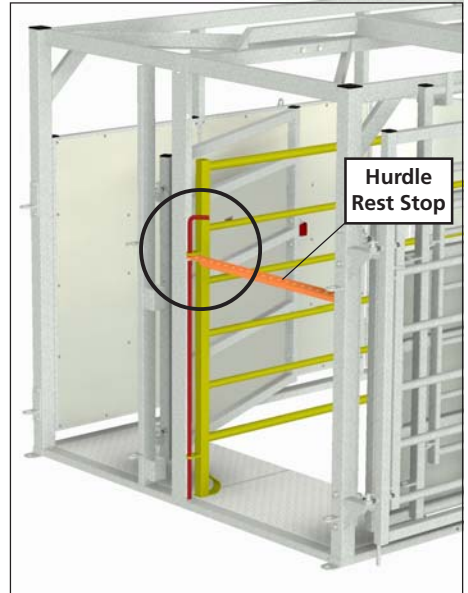


Fig 7

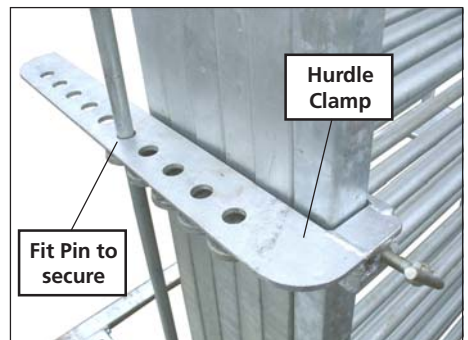


Fig 8

All other hurdle pins can be stored in the holder provided at the side of the stock cube. Dismantle/fold away gates in the following order:-

Remove pins from entry gate and lift gate onto transport hooks on cube top member, Fig 9.

Fold hinged gate (right hand gate) in towards the cube, followed by the access gate (left hand gate).

Engage the clamp fitted to the access gate top rail to hold all gates together, Fig 10, and further secure by wrapping the detachable chain around the top rails, fixing the hooks together.

Before transportation check all items of loose equipment have been removed from the cube or are stowed in the correct holders.

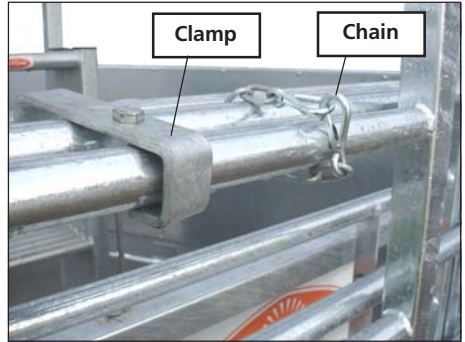


Fig 10



Fig 9



Switching Sweep Direction

The following instructions allow the user to change from left hand to right hand sweep operation or vice versa. Refer to Figures 11 - 13.

1. Set aside entry gate and frame complete.
2. Remove hinged hurdle and access hurdle either side of cube and set aside.
3. Detach Sliding Ring, lift off sweep gate, move eyebolts, slipbolt and handle to opposite end and set gate aside.
4. Remove hinge bracket & backup hurdle bracket from post and set aside.
5. Lift off creeper gate, swap eyebolts and guide roller c/w bracket to opposite ends and set gate aside.
6. Remove back panel & hurdle brackets and set aside.
7. Remove floor cross member, rotate 180° on length axis, refit at opposite side of cube ensuring pin locates in entry half of cube and keyhole is to rear.
8. Remove plastic plugs and brackets from curved panel. Remove curved panel from post, turn upside down and refit to opposite post ensuring slipbolt slot is to the entry end of the cube.

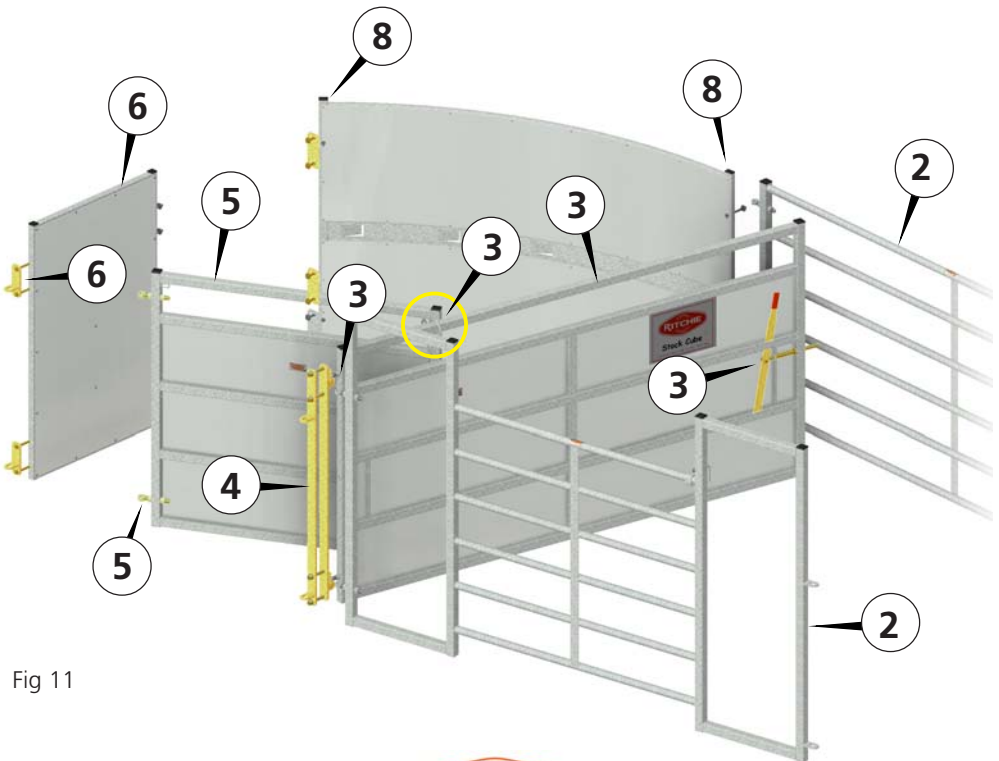


Fig 11



9. Refit plastic plugs and bolt on brackets loosely to panel & rear post.
10. Refit back panel & hurdle brackets at opposite side.
11. Refit creeper gate at opposite side ensuring sheeted side to inside of cube.
12. Refit hinge bracket & backup hurdle bracket to opposite post.
13. Refit sweep gate, adjust eyebolts on both gates and curved panel brackets to achieve best fit and operation.
14. Refit hinged hurdle and access hurdle at opposite sides from original positions. Move clamp to opposite end of access hurdle.

- 15 Refit entry gate and frame complete.
16. Swap the two M16x40 bolts in top centre frame to opposite side to leave location & storage holes for hurdle support pole.

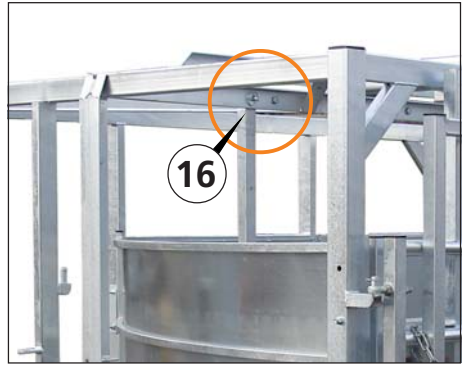


Fig 13

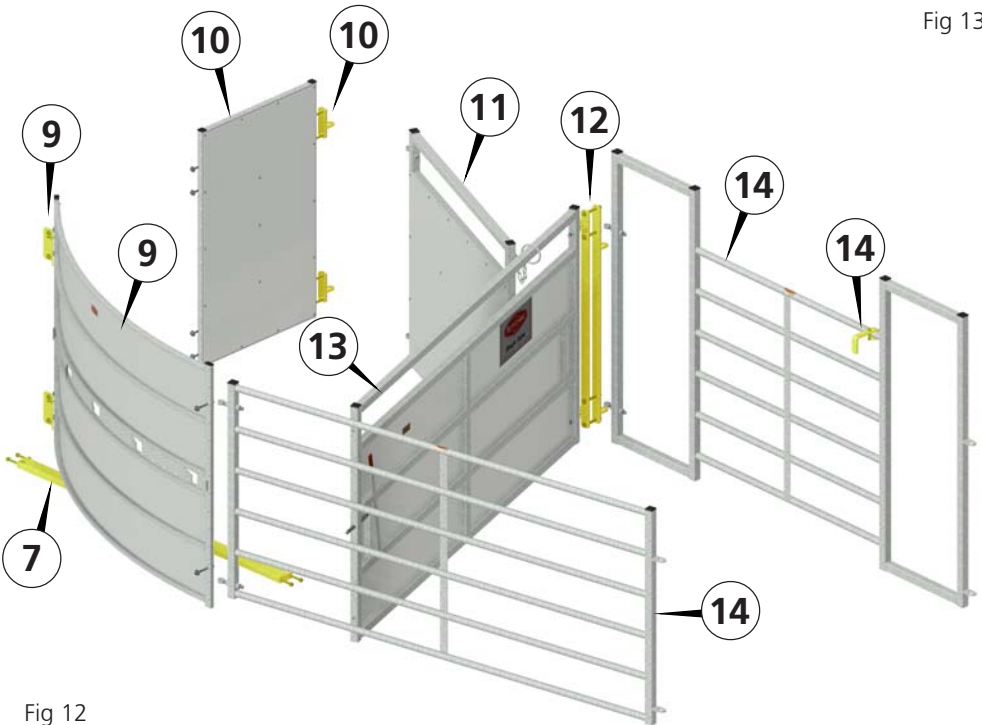


Fig 12



Maintenance

All gate pivots and spring loaded slip bolts should be lightly oiled or greased weekly during periods of operation.

If the equipment is to be put into storage for a period of time - grease as indicated above prior to storage as this will greatly enhance operations upon start up.







the perfect partner

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