

FITTING INSTRUCTIONS

Universal DuraFlex® Repair Kit for Plastic Bins

This kit has been designed to allow damaged plastic bins to be refurbished. New hinges are fitted along with a quality rotational moulded double skinned DuraFlex® lid which meets all your general requirements.

The kit has been designed to fit the majority of plastic containers. The method of removing old hinges and creating a flat area on top and back faces of the container where the hinge adaptors would sit is fundamentally the same for each container.

Nonetheless containers have different sizes and hinge areas and therefore there may be instances where compatibility is an issue.

- **Please check relevant container dimensions beforehand with dimensions of our lids.**
- **Technical drawings showing all the relevant dimensions are available on request.**
- **Please read fitting instructions beforehand.**
- **Persons carrying out task should wear adequate PPE and use safe practices throughout the procedure.**
- **Due to different types of plastic containers these fitting instructions can only be used as a guide.**

Our Repair Kit for Plastic Bins is made of 3 parts:

- 1 x plastic hinge bar (Part number: MH1100-BLK-HDPE)
- 2 x insert plugs for hinge bar (Part number: INSERTPLUG/CO)
- 1 x pair of plastic hinges (incl. 8 nuts & bolts) (Part number: NL22)

& can be used in conjunction with e.g. the MH1100 lid.

Required tools:

- a compass saw or similar,
- a rasp file,
- marking crayon,
- a drill with a 7mm bit,
- two 10mm open or ring spanners.

One man should achieve a container refurbishment in ca. 20 min if set up properly and the correct tools are available.

DISCLAIMER:

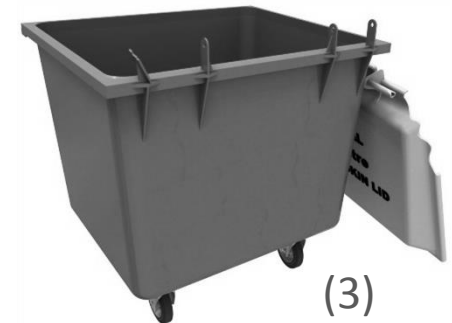
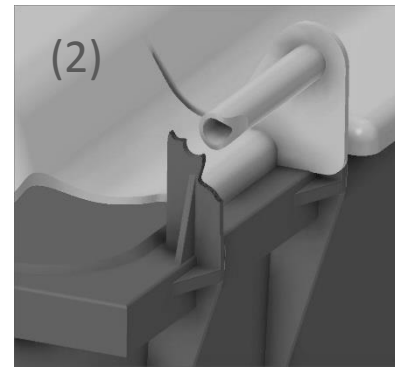
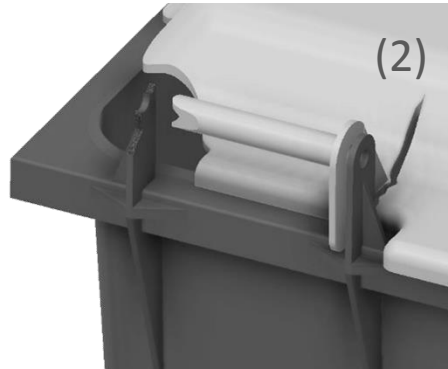
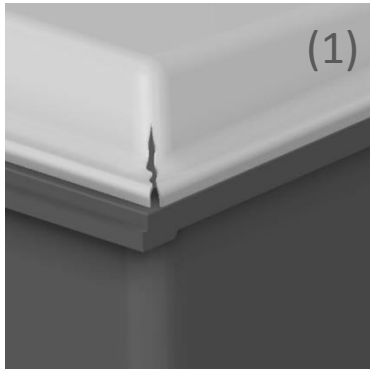
Container Components Europe cannot be held responsible for any injuries incurred. The person carrying out the repair is responsible for the correct disposal of any surplus plastic created during refurbishment.

If you have any questions or require further information, please contact us:

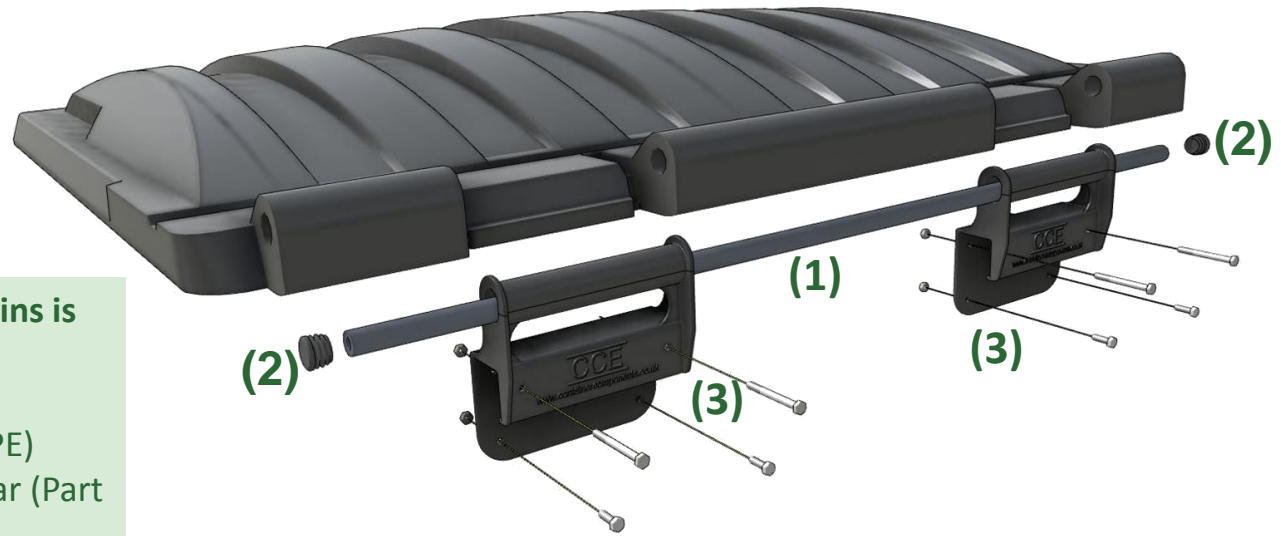
- **By telephone:** +44 (0) 1246 853 696
- **By email to our sales team:** enq@duraflexlids.co.uk
- **By email to our Engineers dep.:** mick@duraflexlids.co.uk



Plastic containers look good when new and fulfil their intended requirements for waste conveyance and the single skin lids look neat even if slightly “floppy” .

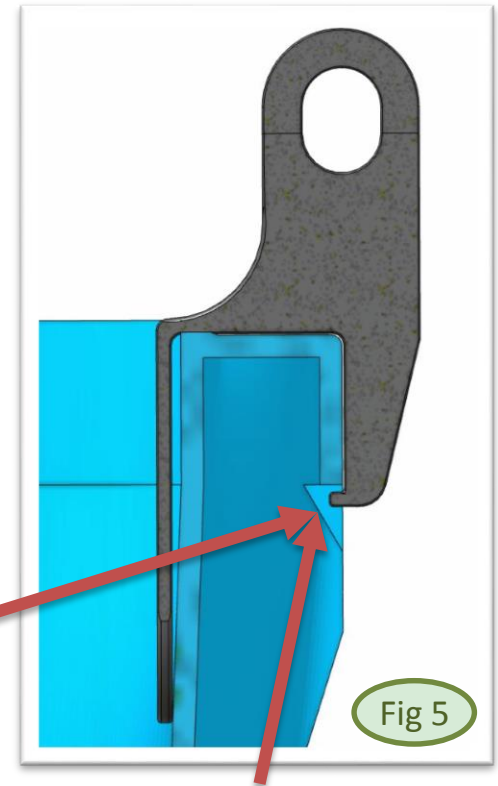
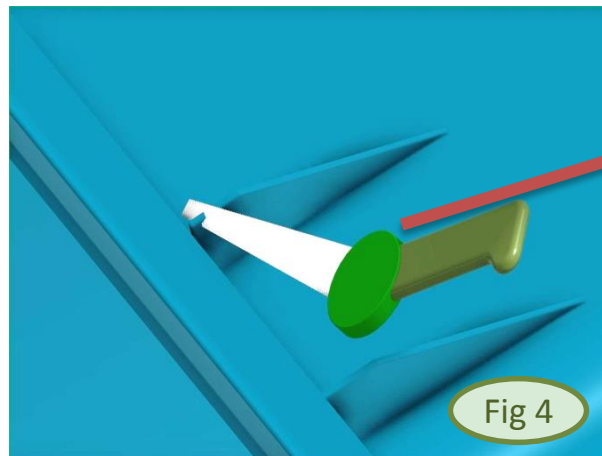
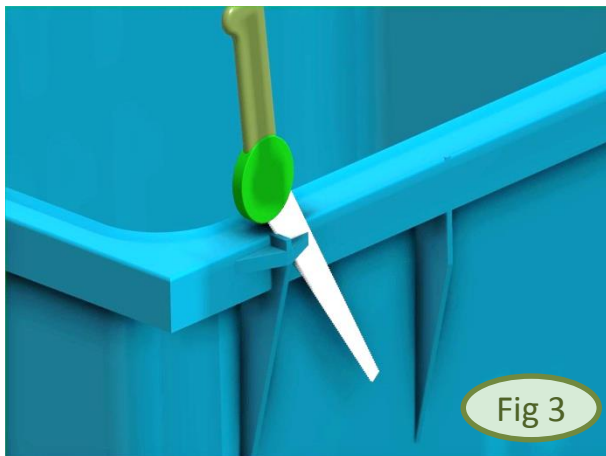
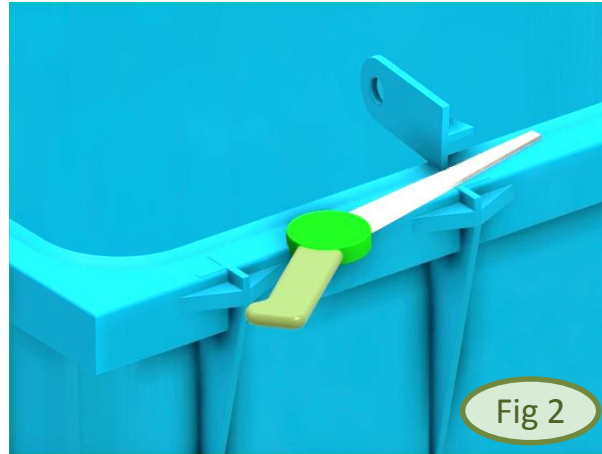
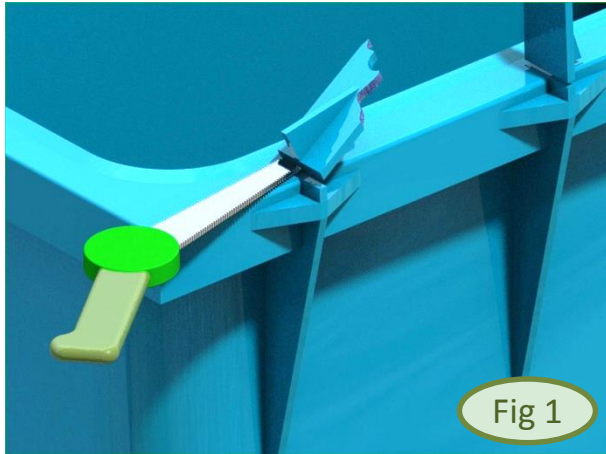


- (1) But as time goes by the cracks begin to appear. Injection moulded single skin lids suffer from inbuilt stress and brittleness which causes them to fracture under external forces subjected to them by trucks and general use and abuse.
- (2) Sections of the lid can start to break off around the hinge areas of the lid and the container hinge lugs can also get damaged by constant use and abuse. The lid in this state contributes additional damage to the container hinges.
- (3) This tends to leave the container and lid in an unusable condition. So we have a container with a damaged hinge and a damaged lid, normally these would be replaced with a new container and lid.



- **Our Repair Kit for Plastic Bins is made of 3 parts:**
- 1 x plastic hinge bar (Part number: MH1100-BLK-HDPE)
- 2 x insert plugs for hinge bar (Part number: INSERTPLUG/CO)
- 1 x pair of plastic hinges (incl. 8 nuts & bolts) (Part number: NL22)
- **And can be used in conjunction with e.g. the MH1100 lid.**

- Instead of replacing the damaged container with a new container, just get a “DuraFlex lid and hinge bracket set” and refurbish the container in around 30 minutes.
- **You save the cost of a new container and also get a quality rotomoulded double-skinned DuraFlex® lid.**



Cut-out to accept hinge profile

- Cut away the old hinge bracket flush with top and sides as shown, taking care to keep saw level with container faces as in above shots. (Fig 1 to 3)
- Using a rasp file, clean up the hinge areas.
- Also remove small cut-out to accept hinge as shown in above pictures. (Fig 4 & 5)

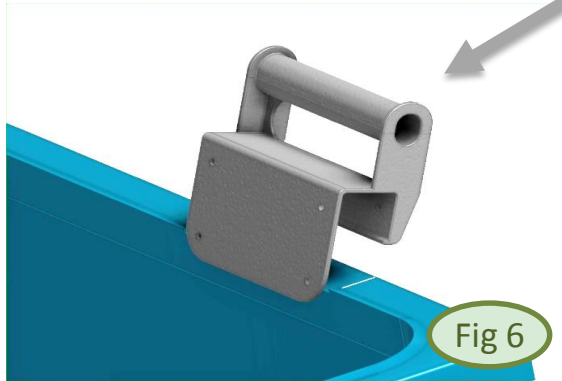


Fig 6)

- Tilt hinge adaptor and slide over banding as shown.

Fig 7)

- Push hinge adaptor down onto container banding in rough position.
- It will leave a gap at base.

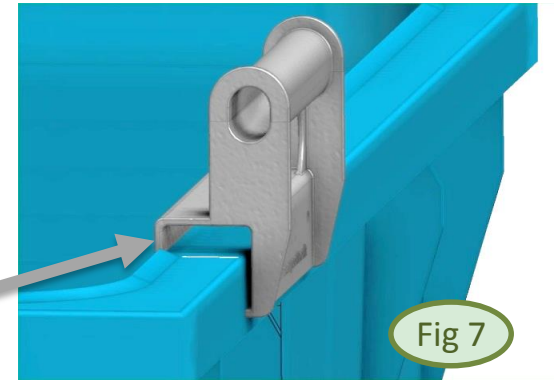


Fig 8)

At this point hinge adaptors are only being used to verify the actual lid position.

Fig 9)

- Position the lid on the container without hinge bar.
- Slide hinge brackets and position hinge adaptors in the lid cut-outs as shown.
- Make sure that the lid is an equal distance from each side as shown.
- The front to back position of the lid is not important at the stage.



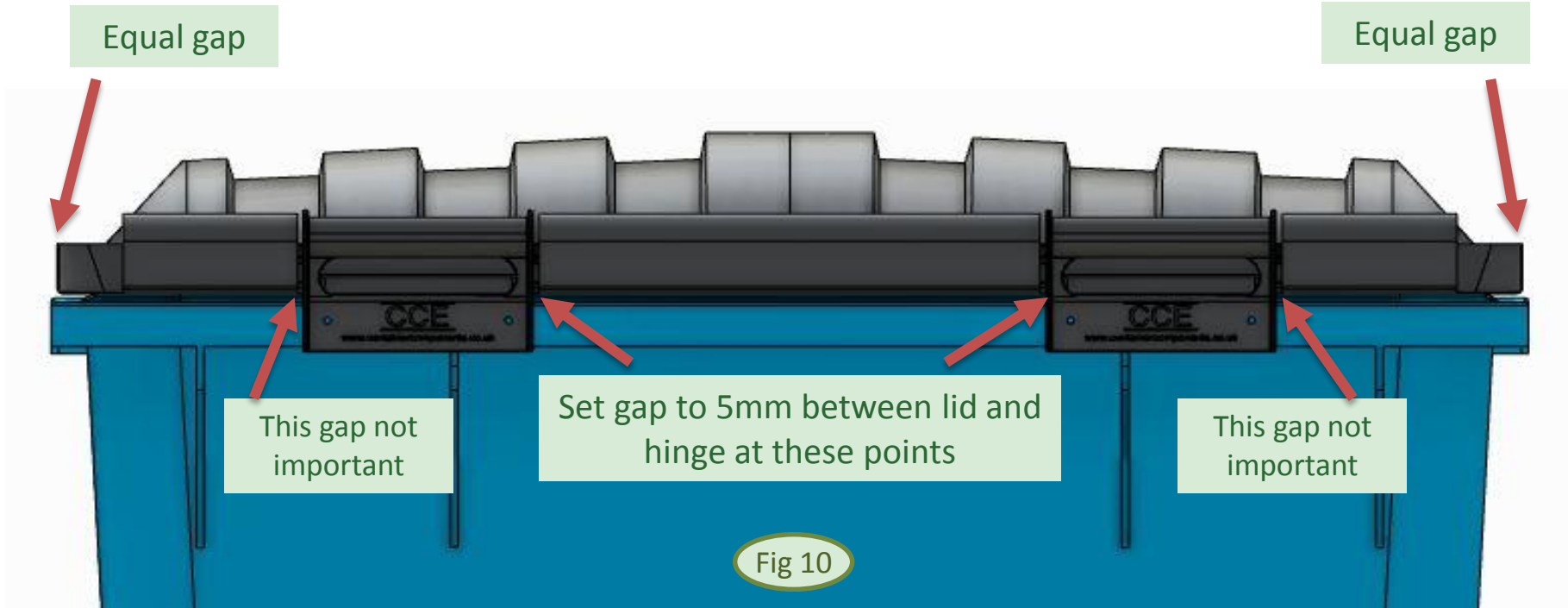
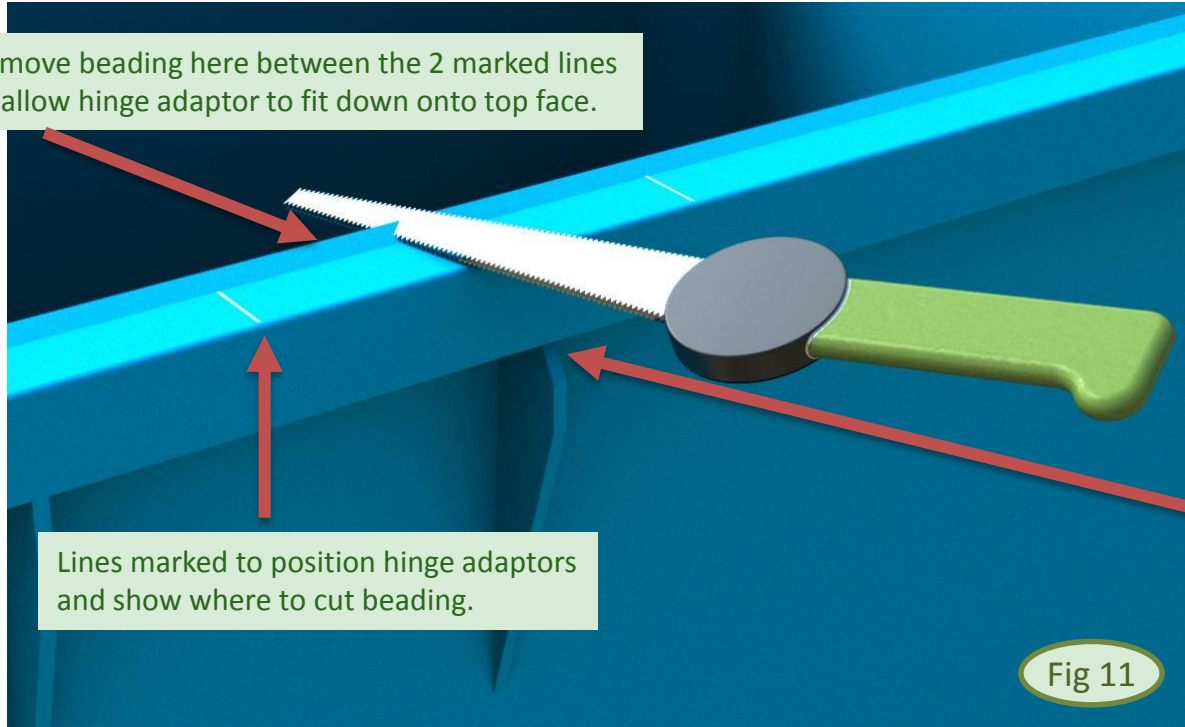


Fig 10

- Once the lid is in the central position, and gaps of 5mm are set as shown above, mark a line at either side of each hinge adaptor on top face.
- Remove lid and either remove hinge adaptors or slide out of way so that the 5mm beading (if present) around the top face of container banding can be cut away as shown on the next page.

Remove beading here between the 2 marked lines to allow hinge adaptor to fit down onto top face.



Lines marked to position hinge adaptors and show where to cut beading.

Fig 11

Depending on the plastic bin type you refurbish there might be an additional gusset between the 2 marked lines.

If this is the case:

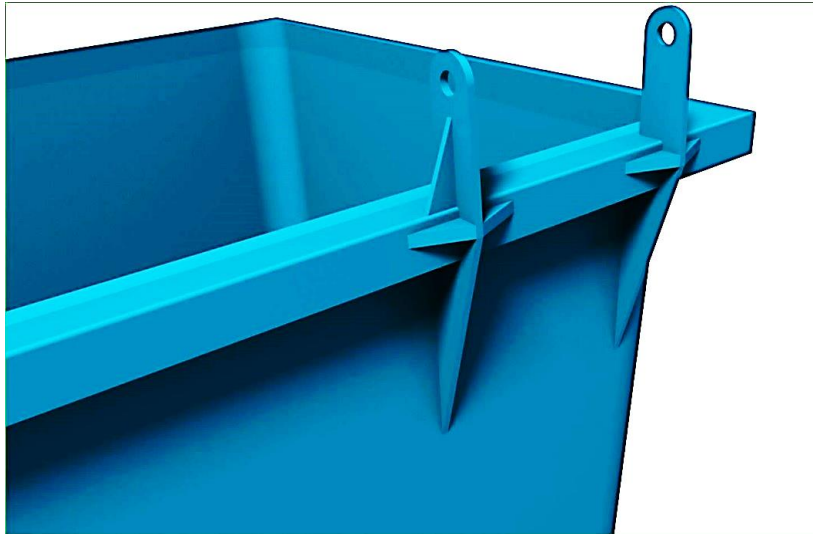
Cut out a small triangle near the top of the container (as shown on fig 4 & 5 on page 4) to allow the hinge adaptor to fit securely onto the container banding.

Also cut away a small section off the beading at the top lip (as shown above) to allow the hinge adaptor to fit securely onto the container banding:

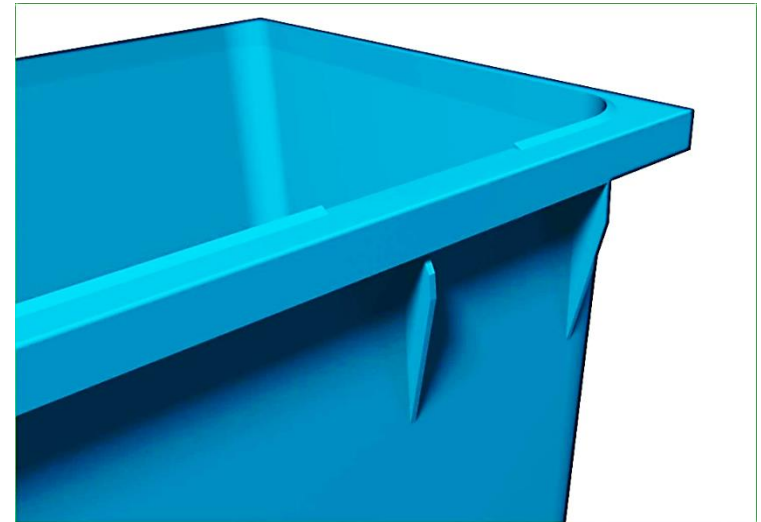
- Start from the middle and remove the beading up to the left line marked.
- Then remove the other half up to the right line marked.

Make sure that you keep to inside of crayon lines.

Using the rasp file, remove all sharp edges ready to fit the hinge adaptors.



BEFORE

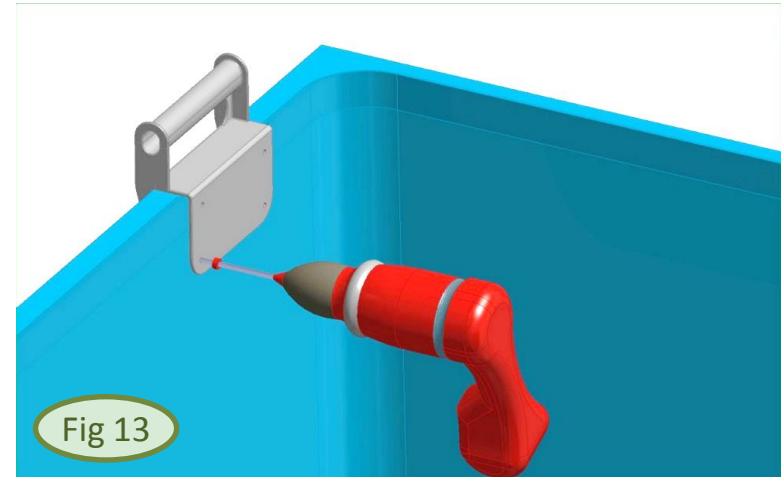
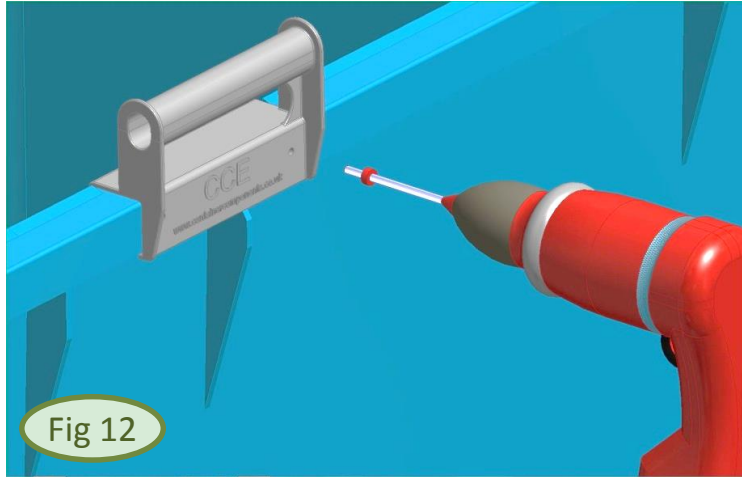


AFTER

The container has now been modified by

- removing all upper and outer hinge bracket as shown and
- cutting a small triangular piece out of the inner two gussets,
- cutting the small beaded section away where the hinge brackets sit down on the banding.

The container is now ready to accept the new plastic hinge adaptors to fit the new DuraFlex rotomoulded lid.



Now secure the hinge adaptors to the container ready for fitting the DuraFlex lid:

- Tilt hinge adaptor and slide over banding as shown and push hinge adaptor down onto container banding.
- Always ensure hinge brackets are in between the crayon lines marked at the sides of the hinge adaptor brackets
- Four bolts are fitted into each hinge adaptor to secure it to the container ready for fitting the Duraflex lid.
- Holes for these should be drilled using the hinge adaptor in its marked out position as a guide as shown above:
 - Four holes drilled from inside container and two from the outside.
 - Nyloc nuts fit on the inside of the container.
 - Drilling top holes from both sides ensures alignment when fitting long bolts through.



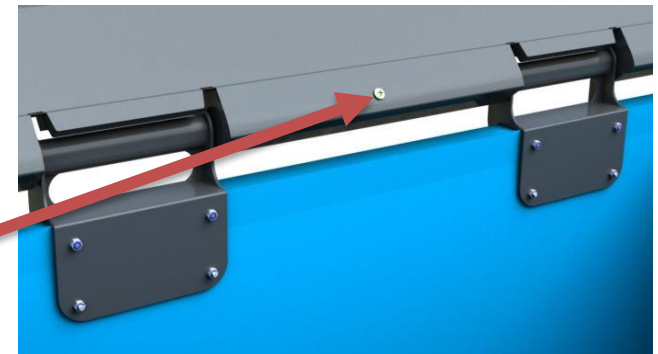
- Nyloc nuts fit on the inside of the container (Fig 14) and need only to be tightened till plastic is nipped and the nyloc section is entered. Do not over tighten.
- Fig 15 shows the fitted and secure hinge adaptor.



Insert plug



Self tapping screw



- Once the hinge bar and lid have been assembled (Fig 16) the hinge bar is held in place by two insert plugs supplied with the hinge kit.
- These plugs need to be inserted into both ends of the hinge bar. (Fig 17)
- A self tapping screw 30mm x 6mm (no 10) can be put through bottom skin and into plastic hinge tube for added security if required. (Fig 18)

Please note: The self tapping screw is not part of the kit.



This container is now ready for use.

- The lid has an internal nominal volume of 42 litres which can be included in the total container volume figures.
- Please ensure the container is left in a suitable position with the brakes applied.

Thank you for choosing *DuraFlex*® products.

If you have any questions or if you need help:

Please feel free to contact us:

- > By telephone: **+44 (0)1246 853696**
- > By email to our Sales team: **enq@duraflexlids.co.uk**
- > By email to our Engineers dep.: **mick@duraflexlids.co.uk**