

LOUDSPEAKER REPAIR PROCEDURE – SURROUND REPLACEMENT GUIDE

CONTENTS OF REPAIR KIT:

- Glue Pen (Bostic EVA - MSDS available at

<http://www.qsr.net.au/msd.html>)

- Instruction Procedure

- Speaker Surrounds

- **Note: Dust caps, Shims & Trims are an optional Purchase**

ITEMS TO BE SUPPLIED BY THE REPAIRER

- Rubbing Alcohol (Acetone or similar) or sandpaper

- Cotton Buds

- Tissues (for lifting cone)

- Stanley Knife or similar

- Soldering Iron & solder (Terminal of Speaker)

- Screw Driver or Drill (fixing speaker)

STEP 1 - Remove speaker from box by removing screw with screw driver: Note wire polarity +/- with marker pen. Unsolder or pull termination lugs off. Place speaker on clean work bench.



STEP 2 - Carefully remove gasket/cardboard trims. These parts can be reused (if damaged we do sell replacements). Scrape off old glue from speaker frame with knife, finish off with sandpaper. Gently rub old glue off with an Acetone/alcohol soaked cotton bud



STEP 3 - Very carefully scrape off old glue from cone. In some instances you may need to peel old glue off or gently rub old glue with an Acetone/alcohol soaked cotton buds.



STEP 4 - FITTING SURROUND

Check surround for correct fitting size. **NOTE:** The surround must fit neatly onto the cone. This is done by lifting up the cone and packing up with tissues. This is also a good time to check to see if the outer edge of the surround is over lapping the screw holes.

Mark and cut screw holes with scissors.



To match surround angle with cone bend angle of surround to by pinching surround - Visit ["REPAIR CORNER" page @ qsr.net.au](http://www.qsr.net.au) for a "how to" movie

If outer diameter of surround is too big trim to correct size with

scissors - VISIT ["REPAIR CORNER" PAGE @ qsr.net.au](http://www.qsr.net.au) for a "how to" movie

STEP 5 - GLUEING SURROUND TO CONE

Prepare glue pen by removing cap and twisting body in a clockwise direction until glue is visible at tip. **NOTE** - turning glue pen anti-clock wise will damage glue pen.

Smear a bead of glue around top of cone and inner edge of surround. Replace cap



Place surround on cone in a central position. Gently push surround onto the cone.

Remove excess glue with a cotton bud

If the surround lifts slightly off the cone wait a few minutes until glue is tacky and push surround back onto the cone. Repeat until surround is fully glued to the cone

Allow glue to set 4-8 hours

STEP 6 - FITTING SURROUND TO BASKET

There are two methods of doing this

A) SHIM METHOD - if you do not wish to use the "shim" method please skip this step.

Remove dust cap by a single cut with a very sharp knife or scalpel



Ensure there is absolutely no contamination in voice coil gap

Shim voice coil gap with shims - note cut shims to 4mm wide and must cover 75% of voice coil gap.

Shims must be a gentle push fit into voice coil gap



Apply glue to basket and surround and push together



If surround lifts off the basket push down gently every 3 (three) minutes until glue holds

Remove shims and push down gently on cone to ensure voice

coil is central and there is no scratchy sound



Glue new dust cap into place



B) FEEL METHOD

This method is slightly more difficult but does not involve removal of the dust cap

Apply glue to surround and basket



Push centre if dust cap gently down to centralise cone



Push surround into basket



Gently push cone from side to

side to ensure you have found "sweet spot" where there is no scraping or rubbing sound



Push surround onto basket until surround stops lifting Allow glue 4-8 hours to set. Remove tissue from under cone if used

STEP 6 - Reglue trims to basket



Allow 4-8 hours for trims to dry.



STEP 7 - REFIT SPEAKERS TO BOX

Make sure polarity is correct. **NOTE** Polarity (+/-) must be fitted the same for both speakers.

Check impedance with multimeter, if all is satisfactory perform a sound check.

Congratulations you have completed your repair!

