

Procedure for marking stainless steel with Cougartron MK612 marking machine and vinyl cut-out type stencil

Preparation of the workpiece

- 1. Ensure that the area to be marked is in a horizontal position
- 2. Remove all traces of grease and dirt from the area to be marked with a clean cloth / wiper paper and white spirits

Application of the vinyl stencil

(see video 'How to Install a Large Vinyl Decal or Sticker' - https://www.youtube.com/watch?v=bRkURz3GrDQ)

- 3. Place the vinyl stencil on the workpiece in the desired position
- 4. Use masking tape to make a 'hinge' down the centre of the stencil
- 5. Pee the backing from the left half of the stencil, and cut off it away using scissors
- 6. Use a scraper device, (up and down motions) and start the strokes from the centre of the stencil, to apply the stencil to the workpiece.
- 7. Remove the masking tape 'hinge' and remove the backing from the remainder of the stencil.

 Apply this in the same way as for the previous half of the stencil.
- 8. Once all of the stencil is applied, then carefully remove the remaining film from the vinyl

Marking procedure

- 9. Ensure the MK612 machine is switched off
- 10. Plug both leads into the power unit. It doesn't matter which way these are plugged in.
- 11. Plug the earth clamp onto one of the leads, and the etching handle and electrode onto the
- 12. Fix a piece of black carbon felt and yellow membrane onto the etching electrode using a rubber O-ring.
- 13. Pour a small amount of the CGT-S1 etching fluid into the small plastic container provided
- 14. Dip the electrode into the fluid, and ensure that the felt is <u>completely soaked all the way</u> through with the fluid.
- 15. Also, for larger stencils, use the CGT-S1 bottle to drop a small amount of fluid over the area to be marked.
- 16. Switch the MK612 machine on, and set the selector to 9V. Ensuring the timer is on 'manual' setting.



- 17. Run the electrode over the areas to be marked. Use a firm (but not too hard) downward pressure and ensure that the end of the electrode is flat on the surface at all times.
- 18. Take care to cover all areas equally. Use a 1" diameter circular motion when moving the electrode. Combine this with running the electrode in straight lines.
- 19. Once the entire stencil has been covered, you will notice that it takes on a black (mottled, inconsistent) hue.
- 20. Use a clean cloth or wiper paper to remove all fluid off the surface of the stencil. Use the same cloth to dab the end of the electrode.
- 21. Repeat steps 14-20 3-4 times until the marked areas are a solid black colour
- 22. Remove the vinyl stencil.
- 23. Spray the entire marked area thoroughly with CGT-N1 neutralising fluid and wipe off with a clean cloth or wiper paper.
- 24. The marking process is now complete.