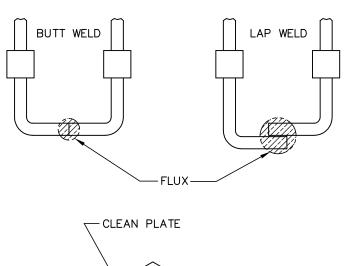
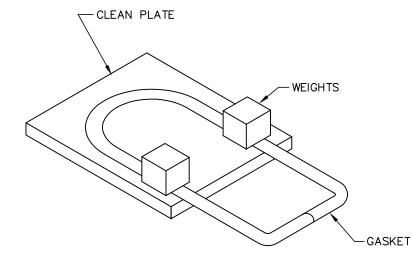
ALUMINUM GASKET MAKING INSTRUCTIONS

- 1.) PREPARE FLUX; USE ALL STATE NO. 31 ALUMINUM BRAZING FLUX.* IF NOT AVAILABLE LOCALLY, CONTACT ARC PRODUCTS MANUFACTURING DIVISION, CHEMTRON CORPORATION, HANOVER, PA 17331. MIX A SMALL AMOUNT OF POWDER WITH WATER UNTIL A LOOSE PASTE CONSISTENCY IS OBTAINED.
- 2.) CUT THE ALUMINUM WIRE TO CIRCUMFERENTIAL LENGTH WITH A RAZOR BLADE OR SCISSORS. AN NEC GASKET LISTING IS MOST HELPFUL.
- 3.) MOUNT THE WIRE AS SHOWN FOR BUTT WELD (FIGURE A) WITH A SLIGHT "SPRING" SUCH THAT IF THE ENDS WERE DISPLACED, THEY WOULD OVERLAP BY 1/32"-1/16", OR IN CASE OF A LAP WELD (FIGURE B) THE LAP IS 1/32"-1/16".
- 4.) DAB A SMALL AMOUNT OF FLUX ON JOINT.
- 5.) ADJUST A LOW TEMPERATURE TORCH FOR A SMALL LOCAL FLAME AND HEAT THE JUNCTION WITH AN UNDULATORY MOTION. THE FLUX WILL SHRIVEL UP INITIALLY, WITH THE ALUMINUM ENDS SOON MELTING AND FUSING. FUSION USUALLY IS ACCOMPANIED BY A SUDDEN MOVEMENT OF THE ENDS WHICH WERE SPRUNG UNDER SLIGHT COMPRESSION.
- 6.) PROPERLY FUSED, THE JOINT CAN BE TESTED BY INSERTING ONE'S THUMBS WITHIN THE LOOP AND SNAPPING OUTWARDS. A POOR JOINT WILL FAIL AND PART IMMEDIATELY.
- 7.) A SMALL ALUMINUM LUMP AT THE JOINT WILL NOT AFFECT THE SEALING ABILITY OF THE COMPLETED GASKET.
- 8.) WASH OFF FLUX RESIDUE WITH A RUBBING ACTION BETWEEN PLASTIC-GLOVED FINGERS UNDER WARM WATER.
- 9.) SOAK JOINT IN HOT WATER FOR 15 MINUTES TO COMPLETELY REMOVE FLUX RESIDUE.
- 10.) FORM GASKET BY ROUNDING IT ABOUT A TAPERED FLASK OR OTHER SUITABLE OBJECT.
- 11.) POSSIBLE DIFFICULTIES: TOO MUCH OR TOO PROLONGED HEATING WILL CAUSE THE ENDS TO OVER-MELT AND SUBSEQUENTLY RECEDE, FORMING ACCUMULATED BALLS OF ALUMINUM.
- 12.) VARIATIONS IN TECHNIQUE: SOME INDIVIDUALS FIND THAT AN OVERLAP JOINT WORKS BETTER THAN THE BUTT JOINT. PREFERENCE FOR A LOCALIZED PENCIL POINT FLAME OR FOR A NON-LOCALIZED FLAME IS ALSO SPLIT ACCORDING TO WHICH SEEMS TO WORK BEST FOR THE INDIVIDUAL. A "BIC" LIGHTER HAS BEEN KNOW TO WORK IN EMERGENCIES.
 - * DUE TO SHIPPING REGULATIONS, WE ARE NO LONGER ABLE TO INCLUDE EVEN SMALL QUANTITIES OF THIS FLUX WITHOUT SPECIAL PACKAGING. CONTACT NEC FOR INFORMATION AND PRICES.





| Α | REVISE | 9/19/05 | /19/05 JTN 9/19/05 | | | NLP | 4/19/04 | nec | NATIONA | AL ELECTROSTATICS CORPORATION | | | | |
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| TOLERANCES AND FINISH UNLESS OTHERWISE SPECIFIED | | | | | | | | DESIGNED | DGH | | | WELDING IN | ISTRUCTIONS FOR CREA | TING |
| FRACTION ±1/0 | | | ANGLE ±.5* | MACH 125 √ | | THIRD ANGLE PROJECTION | | SCALE | 1= | =1 | | | ALUMINUM GASKETS | |
| MATERIA | AL. | | | ● | PART NO | | | 2GI | 00598 | 310 | | DWG NO. 7—5981 | CV | |