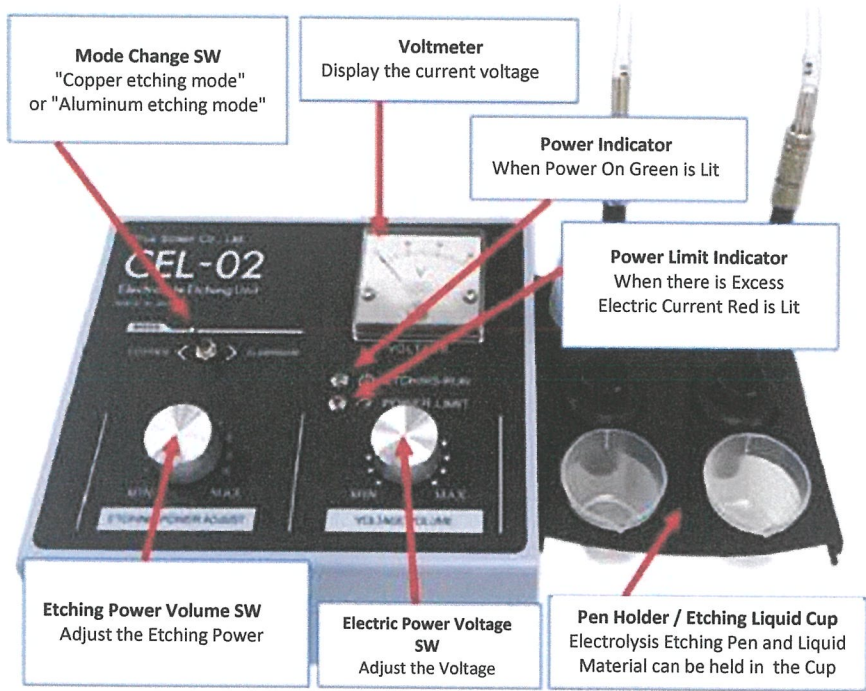
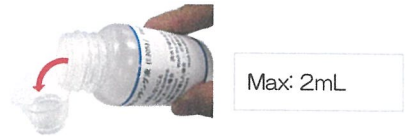





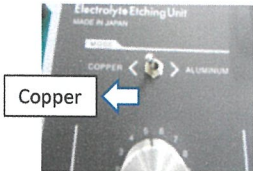


Process Name/Title: Terminal Cut Surface Monitoring (Etching)		Document No: WI-ENG-PDE-005	
WORK INSTRUCTION			
Product Code/Name: Common	Customer Code: n/a	Effective Date: SEP 28 2017	Rev.No.: 0 Page No.: 1 of 3

No.	Work Procedure/Illustration	Records/Remarks/ Quality Pointers
1.	Procedure Part 3 Electrolysis Etching Unit 1-1. CEL-O2 Structure 	
2.	Etching Liquid 2-1 Pour adequate amount of Etching Liquid to the Cup 	

Eff./Rev. Date	Doc/DRCN No.	Rev. No(if applicable)	Details of Change	Revise	Check	Approve	Prepare 9/26/17 R. Alcantara	Check 9/27/17 A. Arañes	Approve 9/27/17 T. Sugiyama
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Process Name/Title: Terminal Cut Surface Monitoring (Etching)		Document No: WI-ENG-PDE-005	
WORK INSTRUCTION		Effective Date: SEP 28 2017	
Product Code/Name: Common	Customer Code: n/a	Rev.No.: 0	Page No.: 2 of 3

No.	Work Procedure/Illustration		Records/Remarks/ Quality Pointers
3.	Unit Power On Set the Mode	3-1 Power SW (located at the back side of unit) On and set the mode SW to Copper  	
4.	Power Adjustment	4-1 Adjust the voltage  <p>Check if automatically set to 15V Etching condition depends on the voltage. Higher voltage means strong etching.</p>	
5	Etching Pen	5-1 Dip the Etching Pen to the Etching Liquid  <p>Dip the Etching Pen to the Etching Liquid adequately Frequency of Etching Pen Tip Replacement is every 300 times of usage.</p>	


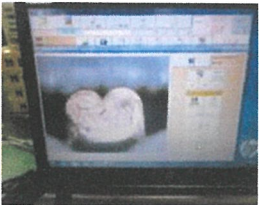
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WORK INSTRUCTION			
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No.	Work Procedure/Illustration	Records/Remarks/ Quality Pointers
6.	Etching 6-1. Etching Rub the surface of the sample using the Etching Pen  Gently scratch the cut surface of the sample by the tip of the Etching Pen. Full area shall be covered. Don't scratch strongly. Remove excess etching liquid using cotton swab.	
7.	Inspection of the Cut Surface 7-1. Inspection of Cut Surface by PC Monitor  If etching is not enough, repeat the etching procedure. If etching condition is not good, repeat etching at higher voltage, i.e., adjust the voltage SW, page 1, 1-1. Example of not good etching condition: Blurred image Dirty Cross section	