

- BUILD NOTES:
- 03 1) ASSEMBLY TO BE BUILT USING QPL BILL OF MATERIAL: **BOM1220403revF.**
 - 2) WORKMANSHIP STANDARD PER: IPC-J-STD-001D, IPC-A-610 OR NEWER. SOLDERING AND ELECTRICAL CONNECTIONS PER: IPC-S-815B OR NEWER.
 - 3) LABEL #1: APPLY WITH THE FOLLOWING INFORMATION:
- TENNANT PART NUMBER AND REVISION.
EXAMPLE: **1220403-03**. NOTE: THIS NUMBER AND REVISION SHOULD MATCH THE RELEASED TENNANT DRAWING.
LABEL #2: APPLY WITH THE FOLLOWING INFORMATION:
- MANUFACTURER'S LABEL WITH SERIAL NUMBER.
 - 4) FUNCTIONAL TEST: REFER TO FUNCTIONAL TEST PROCEDURE: ECH2O FUNCTIONAL TEST TBD.
 - 5) THIS ASSEMBLY WILL BE USED IN THE M17/T17 EC-H2O MODULE 1212103.
 - 6) APPLY RTV AND CONFORMAL COATING AS PER NOTES ON PAGE 2 OF 2.
 - 7) ASSEMBLY TO BE MANUFACTURED PER RoHS/LEAD FREE STANDARDS.
 - 8) DRAWING DIMENSIONS ARE FOR REFERENCE ONLY. REFER TO GERBER FILES FOR EXACT PCB DIMENSIONS.
 - 9) NO SOLDER BUMPS ON THE BACK SIDE OF THE PCB IN THIS AREA. REFER TO SIL PAD DRAWING (TENNANT # 1038890) FOR DIMENSIONS.

REV-03 CHANGES:

- 1) UPDATED BOM TO REV F, CHANGED GATE RESISTOR VALUES FOR H-BRIDGE CIRCUITS
- 2) UPDATED RTV AND CONFORMAL COATING CALL-OUTS ON PAGE 2. ALL APPROVED MATERIALS NOW LISTED IN QPL

ITEM	QTY.	PART #	DESCRIPTION
1	1	REFER TO QPL BOM	PC BOARD
2	1	REFER TO QPL BOM	6 PIN HEADER
3	1	REFER TO QPL BOM	14 PIN HEADER

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MATERIAL SPECIFICATIONS:	OTHER TREATMENTS AND FINISHES	PAINT - COLOR
PART NAME: CIRCUITBOARD ASSY [EC-H2O, MOD-E, LM4]	GLOSS	PERFORMANCE
	ACCEPTANCE	

CHANGED BY: TIM LAROCQUE	DATE: 12/05/2024
MDR:	
DES: JOHN HAEG	04/21/2015

REV	ECO
03	

WELDING NOTATION IN ACCORDANCE WITH AWS A2.4-98	GENERAL NOTES	
UNLESS OTHERWISE SPECIFIED DIMENSION TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-2009 ALL UNTOLERANCED DIMENSIONS ARE BASIC AND CONTROLLED BY:	PRIMARY DIMENSIONS ARE METRIC, REFERENCE DIMENSIONS WITH BRACKETS ARE INCH. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE AFTER TREATMENTS AND FINISHES.	
X.X ±0.8 ±[.03]	PROPRIETARY INFORMATION	
X.XX ±0.25 ±[.010]	MAY NOT BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION OF TENNANT COMPANY.	
X.XXX ±0.125 ±[.0049]		
ANGLES ±0.5°	SHEET 1 OF 2	




DWG B SIZE	PART NUMBER 1220403
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1) CONFORMAL COATING MATERIAL: Q50000-001 (U3)
2) MASK OFF THE FOLLOWING AREAS ON THE TOP SIDE OF THE ASSEMBLY:

- 3) MASK OFF THE FOLLOWING AREAS ON THE BOTTOM SIDE OF THE ASSEMBLY:

- 4) APPLY NON-CORROSIVE PCB SAFE RTV (Q50001-001) AROUND THE FOLLOWING COMPONENTS FOR VIBRATION PROTECTION: C36, C46, C47, C74, X1. MINIMUM RTV BEAD DIAMETER TO BE 3MM.

ECO CONSULTATION

ECO CONSULTATION										WELDING NOTATION IN ACCORDANCE WITH AWS A2.4-98		GENERAL NOTES PRIMARY DIMENSIONS ARE METRIC, REFERENCE DIMENSIONS WITH BRACKETS ARE INCH. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE AFTER TREATMENTS AND FINISHES.					
										REV	ECO					UNLESS OTHERWISE SPECIFIED DIMENSION TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-2009 ALL UNTOLERANCED DIMENSIONS ARE BASIC AND CONTROLLED BY:	
										03		DATE: 12/05/2024				PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION OF TENNANT COMPANY.	
										MATERIAL SPECIFICATIONS:		OTHER TREATMENTS AND FINISHES				PAINT - COLOR	
								X.XX ±0.25 ±[.010]									
PART NAME: CIRCUITBOARD ASSY [EC-H2O, MOD-E, LM4]		GLOSS		PERFORMANCE		ACCEPTANCE		DES: JOHN HAEG 04/21/2015		X.XXX ±0.125 ±[.0049]							
								ANGLES ±0.5°				SIZE		PART NUMBER 1220403			