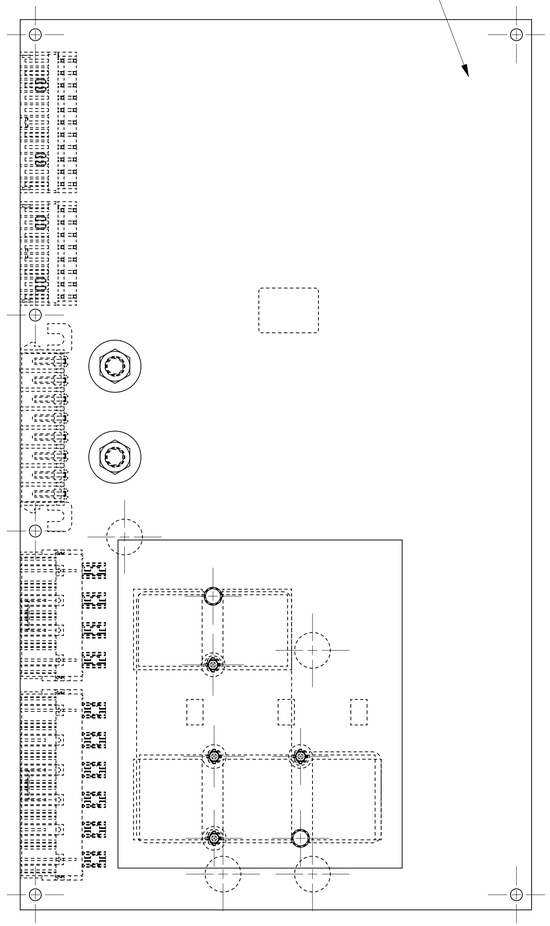

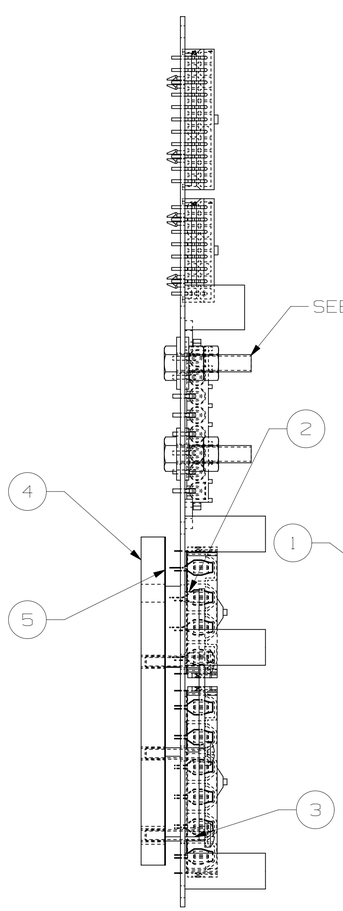

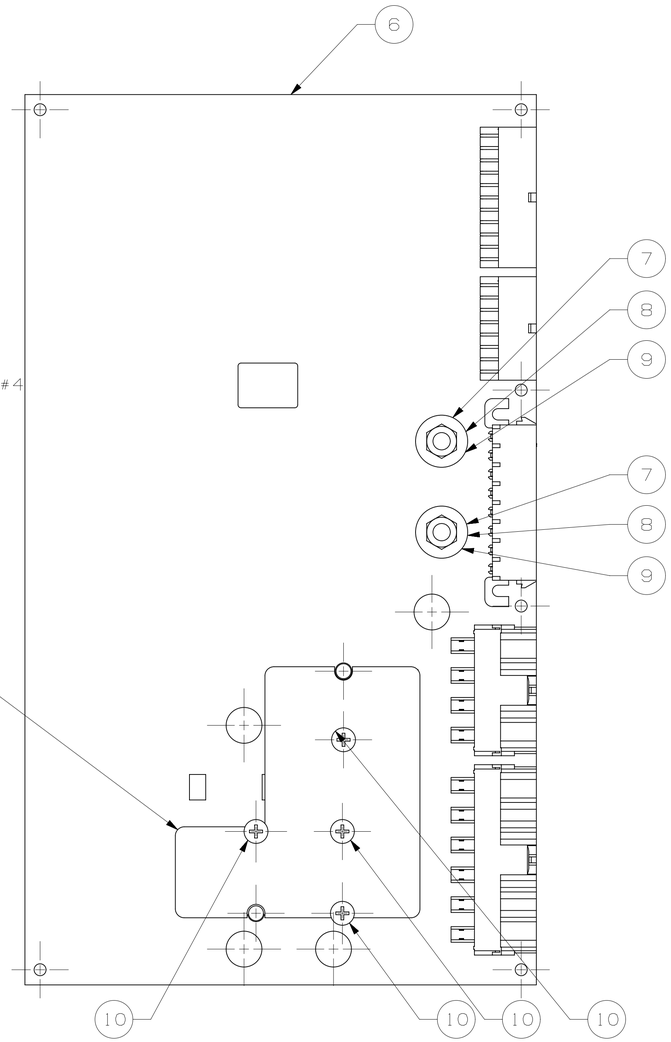

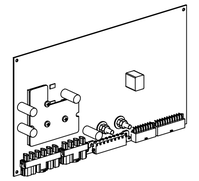

ITEM NO	QTY	PART NUMBER	DESCRIPTION
1	1	1058516	PLATE, ELE
2	1	1058189	PAD, ELE, RBR
3	1	1058188	PAD, ELE, RBR, LRG
4	1	1057354	HEATSINK, CIRCUITBOARD
5	1	1057563	PAD, SIL, HEATSINK
6	1	1054014	CIRCUITBOARD
7	2	SEE NOTE #4	M6, HEX HEAD BOLT, BRASS
8	4	SEE NOTE #4	M6, WASHER, FLAT,BRASS
9	2	SEE NOTE #4	M6, STANDOFF, BRASS
10	4	SEE NOTE #3	M4, SCREW, PAN HEAD

NOTES:
1) TO BE BUILT WITH CIRCUITBOARD: 1054014.
2) APPLY LABEL WITH TENNANT PART NUMBER AND REVISION. EXAMPLE: 1076908-00.
   NOTE: THE CIRCUIT BOARD WILL ALREADY HAVE A QPL BILL OF MATERIAL LABEL,
   AND A MANUFACTURER'S LABEL WITH SERIAL NUMBER.
3) M4 SCREWS HOLDING THE HEATSINK ASSEMBLY TOGETHER:
   - TO BE APPLIED IN THE FOUR LOCATIONS AS SHOWN.
   - SCREW HEAD TO BE ON THE TOP SIDE OF THE PCB.
   - TO BE TORQUED TO 99-128 NCM.
   - (4) SCREW, PAN HEAD, PHILLIPS DRIVE, M4 x 0.70 x 20, CLASS 4.8, ZINC PLATED.
   - APPLY REMOVEABLE LOCTITE 243 (BLUE)TO THE M4 HEATSINK HARDWARE.
   - THE TWO OUTER M5 SCREW HOLES TO REMAIN UNPOPULATED. THEY ARE USED TO
     FIT THIS ASSEMBLY AGAINST A METAL PLATE ON THE MACHINE.
4) BATTERY+ AND BATTERY GROUND STUD HARDWARE:
   - (2) M6, 25MM LONG, HEX HEAD, BRASS BOLT, 1MM PITCH, FULLY THREADED:
     MCMASTER CARR #93270A440 OR EQUIVALENT.
   - (4) M6, WASHER, BRASS, FLAT, 12MM O.D., 1.4-1.8MM THICK:
     MCMASTER CARR #91635A240 OR EQUIVALENT.
   - (2) M6, STANDOFFS, BRASS, 1MM PITCH, 10MM TALL, 13MM WIDE. RAF# M1457-6010-B OR EQUIVALENT
   - TO BE APPLIED IN THE TWO LOCATIONS AS SHOWN, AND TORQUED TO 5.88 Nm.
     ASSEMBLY SEQUENCE:
   - BOLT HEAD AND SINGLE FLAT WASHER ON THE BOTTOM SIDE OF THE PCB AT BOTH LOCATIONS.
   - FLAT WASHER, THEN THE BRASS STANDOFF ON THE TOP SIDE OF THE PCB AT BOTH LOCATIONS.
5) EACH ASSEMBLY TO HAVE A CONTINUITY TEST BETWEEN THE "B+" STUD AND THE METAL HEATSINK.
   NO CONTINUITY = PASS. CONTINUITY = IMPROPER INSTALLATION OF THE HEATSINK SIL-PAD
   (ITEM #5).
(02) 6) FIRMWARE: QUANTUM/T16_SOFTWARE_MAIN_CODE: Q30023-010 (Q032823a.OUT)
   QUANTUM/T16_SOFTWARE_BOOTLOADER: Q30024-001 (QB112009.OUT)

REV 02 CHANGES:
1. UPDATED MAIN SOFTWARE FROM Q30023-009 TO Q30023-010

ECO CONSULTATION

MATERIAL SPECIFICATIONS: NOTED	PAINT - COLOR: NONE			02		PDH	05/08/2023
OTHER TREATMENTS AND FINISHES: NONE	PAINT - GLOSS	PAINT - PERFORMANCE	PAINT - ACCEPTANCE	REV	ECO	BY	DATE

SCALE: 1:1 — DO NOT SCALE DWG

DWN: PAUL HENDERSON 07/07/2020
MDR: STACY GAHLON 07/14/2020
DES: ABDI HASHI 10/29/2019
PART NAME: CIRCUITBOARD ASSY (T16)

TOLERANCES UNLESS OTHERWISE SPECIFIED

	METRIC TOLERANCES	INCH EQUIVALENT
LINEAR	±0.75	±.030
SLOT WIDTH	±0.25	±.010
HOLE DIA	±0.25	±.010
ANGULAR	±2°	
MACH SURFACES 3.2 RMS		125 RMS

GENERAL NOTES
PRIMARY DIMENSIONS ARE METRIC, SECONDARY DIMENSIONS WITH BRACKETS ARE INCH. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE AFTER TREATMENTS AND FINISHES.

PROPRIETARY INFORMATION
MAY NOT BE REPRODUCED OR DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION OF TENNANT COMPANY.

SHEET 1 OF 1

TENNANT

DWG SIZE: D — PART NUMBER: 1076908