

TABLE 1: INPUT WIRE RUN LIST

P1	PCB	WIRE COLOR
1,3	POST 1, POST 3	RED
2	N/C	N/C
GND TAB	PCB GND	BLACK

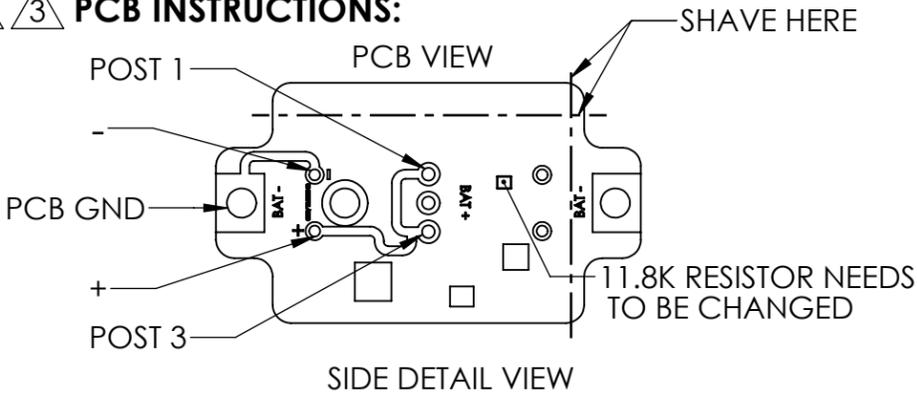
TABLE 2: OUTPUT WIRE RUN LIST

CIRCULAR CONTACT	PCB	WIRE COLOR
1,3	+	BLUE
2	N/C	N/C
GND TAB	-	JUMPER

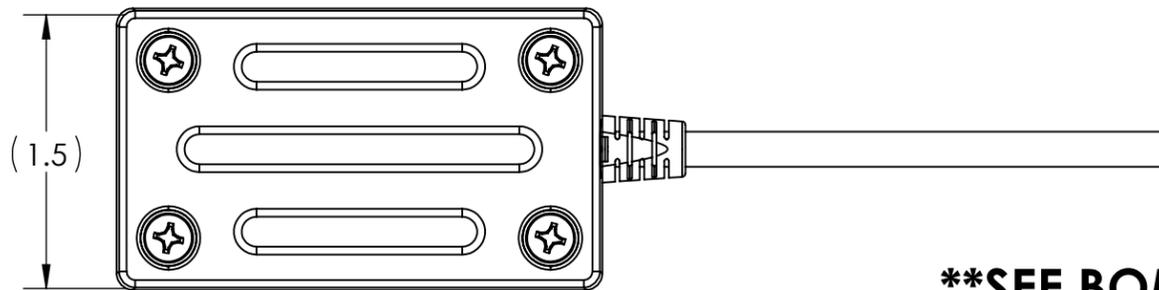
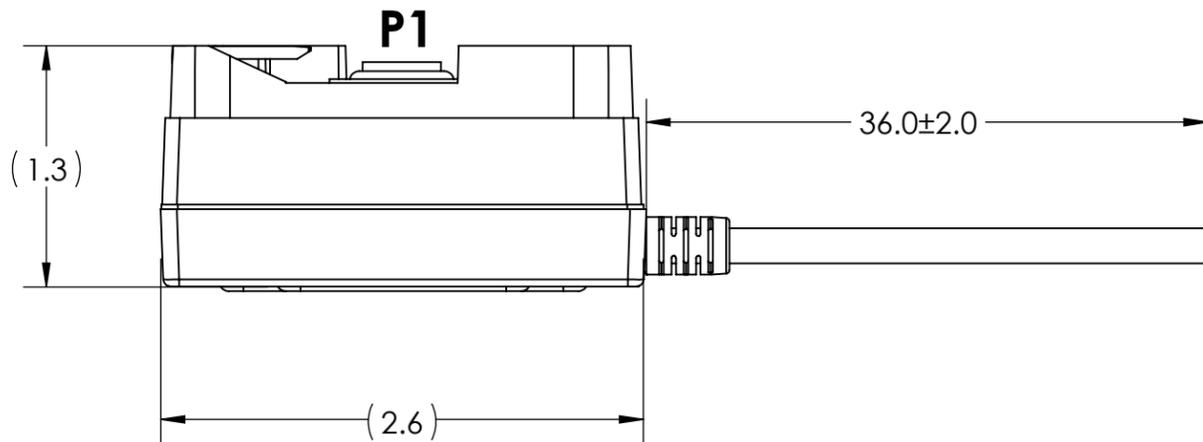
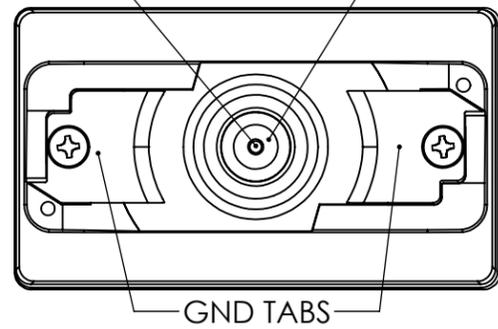
OPERATIONAL NOTES:

- OUTPUT: 3.8VDC @ 5A CONTINUOUS, 8A PULSE.
- INPUT: 11 - 17VDC,
- COMPATIBLE WITH TW-900 & TW-950 RADIOS.
- ADAPTS MBITR BATTERIES TO TRELISWARE RADIOS.

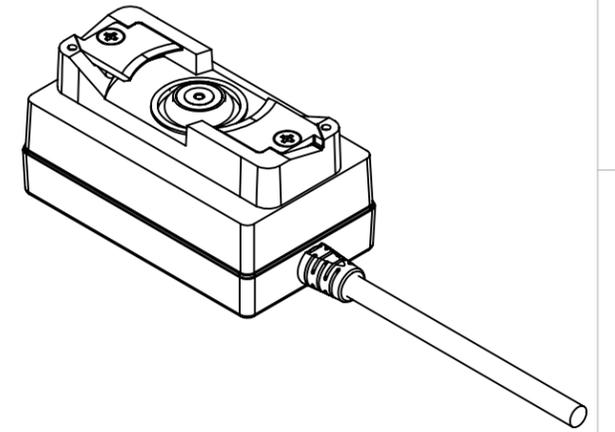
PCB INSTRUCTIONS:



2 (CENTER PIN) 1,3 (OUTER CONTACT)



REVISIONS			
REV.	DESCRIPTION	DATE	ENG
A	INITIAL RELEASE	01/09/2026	CWA

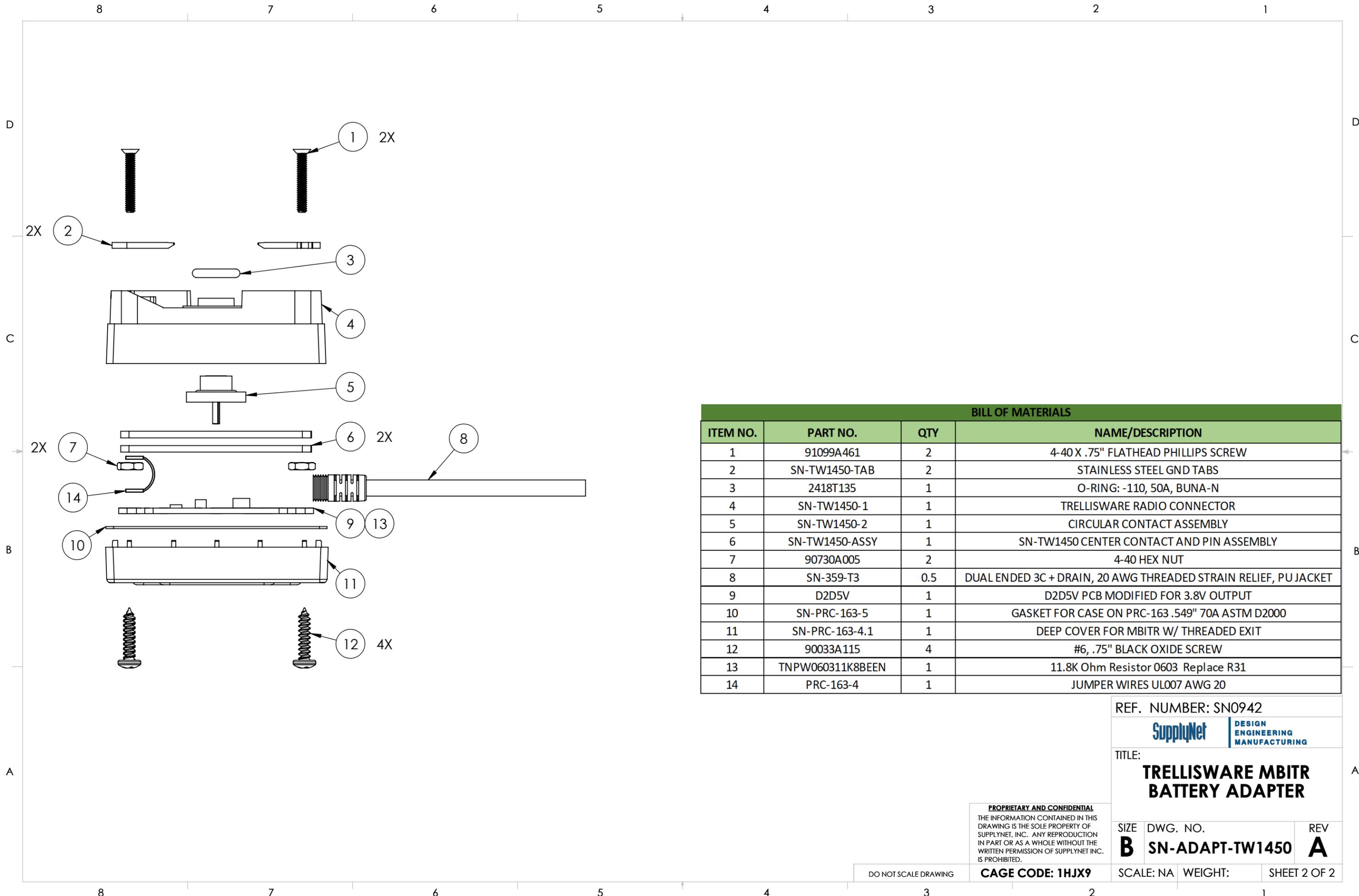


****SEE BOM ON SHEET 2**

NOTES:

- WIRING SHALL BE DONE IN ACCORDANCE WITH TABLE 1 & 2 WIRE RUN LISTS.
- 11.8K RESISTOR THAT NEEDS TO BE CHANGED ON THE D2D5V PCB AT LOCATION R31.
- PCB MUST BE SHAVED DOWN WITH NIBBLE TO FIT INSIDE LID, THEN PCB SHALL BE GLUED TO LID.
- USE ITEM NO. 14(JUMPER WIRE) TO CONNECT ITEM NO. 2(GROUND TABS) TO ITEM NO. 9(PCB).
- PACKAGING REQUIREMENTS:
 - EACH COMPLETED ASSEMBLY SHALL BE PACKAGED IN A ZIP POLYBAG.
 - CONNECTOR(S) SHALL BE PACKAGED TO PREVENT DAMAGE DURING SHIPPING. BUBBLE WRAP OR PROTECTIVE COVER MUST BE USED.
 - POLYBAG SHALL BE MARKED WITH SUPPLYNET LOGO, PRODUCT QR CODE, PART NUMBER, CAGE CODE, AND LOT NO, PER SN-STD-LBL REQUIREMENTS.
- WORKMANSHIP REQUIREMENTS:
 - MANUFACTURE TO IAW/WHMA A-620 CLASS 2 REQUIREMENTS.
 - SOLDERING SHALL BE COMPLIANT WITH IAW J-STD-001 AS APPLICABLE.
 - CONNECTOR(S) AND WIRE SHALL BE FREE FROM ANY SCRATCHES, CHIPS, AND DEFECTS.
- INSPECTION REQUIREMENTS:
 - EACH COMPLETED ASSEMBLY TO BE 100% TESTED FOR SHORTS, CONTINUITY, AND JACKET RESISTANCE (250V @100MOHM MIN.)
 - INSPECT TO IPC/WHMA A-620 CLASS 2 REQUIREMENTS.

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	REF. NUMBER: SN1483			
DIMENSIONS ARE IN: INCHES		DRAWN	CWA01/07/2026				
TOLERANCES: .XX: ± 0.03 .XXX: ± 0.005		CHECKED	RB 01/07/2026				
ANGULAR: .X°: 1° .XX°: 0.5°		COMMENTS:		TITLE:			
BREAK EDGES: .005 - .020		<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SUPPLYNET, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SUPPLYNET INC. IS PROHIBITED.</p>		<p>TRELISWARE MBITR BATTERY ADAPTER</p>			
FILLETS: .005 - .020					SIZE	DWG. NO.	REV
SURFACE FINISH:					B	SN-TW-1450-ELM	A
GEOMETRIC TOLERANCING PER: ASME Y14.5 -2009		CAGE CODE: 1HJX9		SCALE: NA			
MATERIAL: SEE DRAWING NOTES		WEIGHT:		SHEET 1 OF 2			
FINISH: SEE DRAWING NOTES							
DO NOT SCALE DRAWING							



BILL OF MATERIALS			
ITEM NO.	PART NO.	QTY	NAME/DESCRIPTION
1	91099A461	2	4-40 X .75" FLATHEAD PHILLIPS SCREW
2	SN-TW1450-TAB	2	STAINLESS STEEL GND TABS
3	2418T135	1	O-RING: -110, 50A, BUNA-N
4	SN-TW1450-1	1	TRELLISWARE RADIO CONNECTOR
5	SN-TW1450-2	1	CIRCULAR CONTACT ASSEMBLY
6	SN-TW1450-ASSY	1	SN-TW1450 CENTER CONTACT AND PIN ASSEMBLY
7	90730A005	2	4-40 HEX NUT
8	SN-359-T3	0.5	DUAL ENDED 3C + DRAIN, 20 AWG THREADED STRAIN RELIEF, PU JACKET
9	D2D5V	1	D2D5V PCB MODIFIED FOR 3.8V OUTPUT
10	SN-PRC-163-5	1	GASKET FOR CASE ON PRC-163 .549" 70A ASTM D2000
11	SN-PRC-163-4.1	1	DEEP COVER FOR MBITR W/ THREADED EXIT
12	90033A115	4	#6, .75" BLACK OXIDE SCREW
13	TNPW060311K8BEEN	1	11.8K Ohm Resistor 0603 Replace R31
14	PRC-163-4	1	JUMPER WIRES UL007 AWG 20

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DO NOT SCALE DRAWING

CAGE CODE: 1HJX9

REF. NUMBER: SN0942

SupplyNet | DESIGN ENGINEERING MANUFACTURING

TITLE:
TRELLISWARE MBITR BATTERY ADAPTER

SIZE B	DWG. NO. SN-ADAPT-TW1450	REV A
SCALE: NA	WEIGHT:	SHEET 2 OF 2