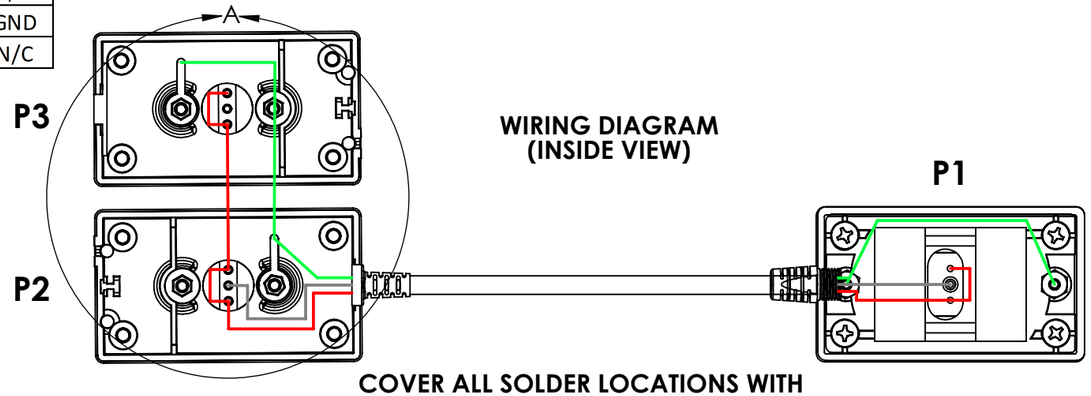
REV.	DESCRIPTION	DATE	ENG
A	INITIAL REV.	01/05/2021	MOB
B	UPDATED MODEL, ADDED SHEET 2 EXPLODED VIEW	07/23/2023	MOB
C	UPDATED SHEET 2 BOMS	02/10/2026	CWA

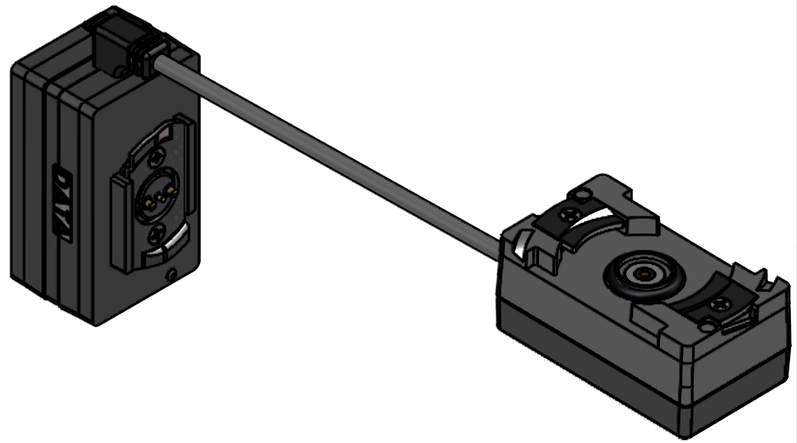
TABLE 1: WIRE RUN LIST				
P1	**SIGNAL**	**WIRE COLOR**	**P2**	**P3**
1, 3	(+)12V DC	RED	1, 3	1, 3
GND	(-) GND	GREEN	GND	GND
2	BATT DATA	WHITE	2	N/C

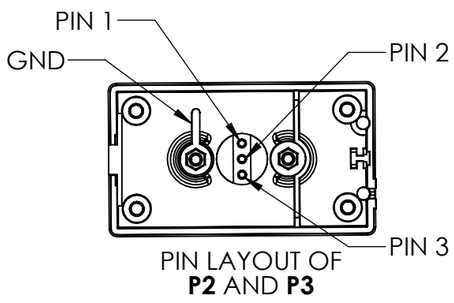
*JUMP **P1** GND TABS TOGETHER



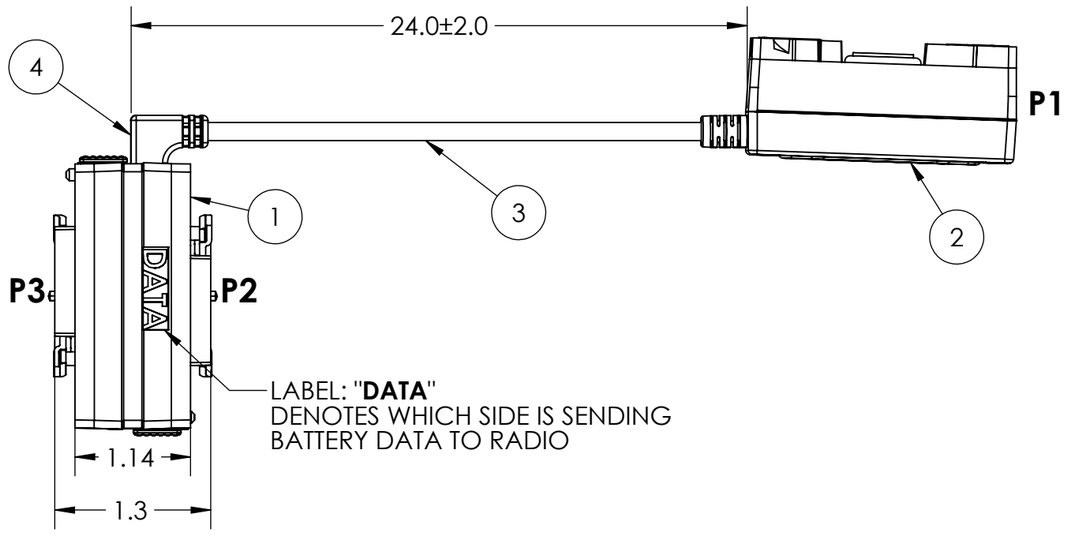
WIRING DIAGRAM (INSIDE VIEW)

COVER ALL SOLDER LOCATIONS WITH RTV SEALANT

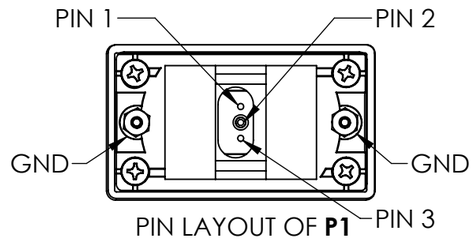




PIN LAYOUT OF **P2** AND **P3**



LABEL: "**DATA**"
DENOTES WHICH SIDE IS SENDING BATTERY DATA TO RADIO



PIN LAYOUT OF **P1**

BILL OF MATERIALS			
ITEM NO.	**PART NO.**	**QTY**	**NAME/DESCRIPTION**
1	SN-799-KIT	2	MBITR BATTERY CONNECTOR
2	CONN-PRC163	1	PRC-163 CONNECTOR, UNREGULATED
3	243C-U02A	24"	CABLE, 3C, 24 AWG, PU JACKET, OD: 4.0mm
4	FE-411-02A2	1	RIGHT ANGLE STRAIN RELIEF

NOTES:
1. WIRING SHALL BE DONE IN ACCORDANCE WITH TABLE 1 WIRE RUN LIST.
2. PACKAGING REQUIREMENTS:
   A. EACH COMPLETED ASSEMBLY SHALL BE PLACED INTO A ZIP-POLY BAG AND LABELLED PER SN-STD-LBL.
3. SOLDERING: IAW IPC-J-STD-001 CLASS 2 AS APPLICABLE
4. ASSEMBLY TO BE 100% TESTED FOR SHORTS, CONTINUITY, AND JACKET RESISTANCE (250V @ 100MOHM MIN.)
5. MANUFACTURE AND INSPECT IAW IPC/WHMA A-620 CLASS 2.

REF. NUMBER: SN0542

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN: INCHES TOLERANCES: .XX: ± 0.03 .XXX: ± 0.005 ANGULAR: .X°: 1° .XX°: 0.5° BREAK EDGES: .005 - .020 FILLETS: .005 - .020 SUFACE FINISH: GEOMETRIC TOLERANCING PER: ASME Y14.5 -2009	DRAWN	MOB	1/5/2021
	CHECKED	RB	1/5/2021
	COMMENTS:		
MATERIAL: SEE DRAWING NOTES			
FINISH: SEE DRAWING NOTES			
DO NOT SCALE DRAWING			

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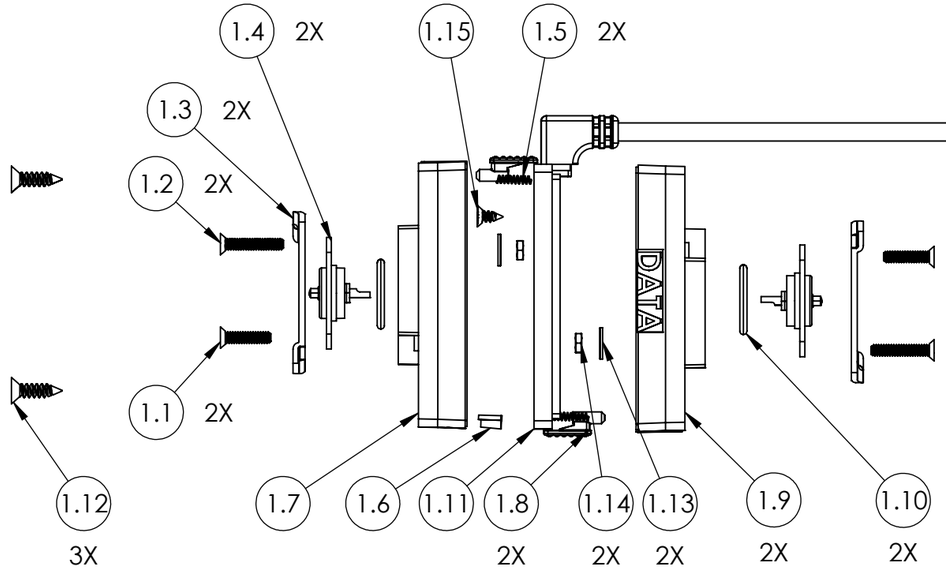
SupplyNet DESIGN ENGINEERING MANUFACTURING

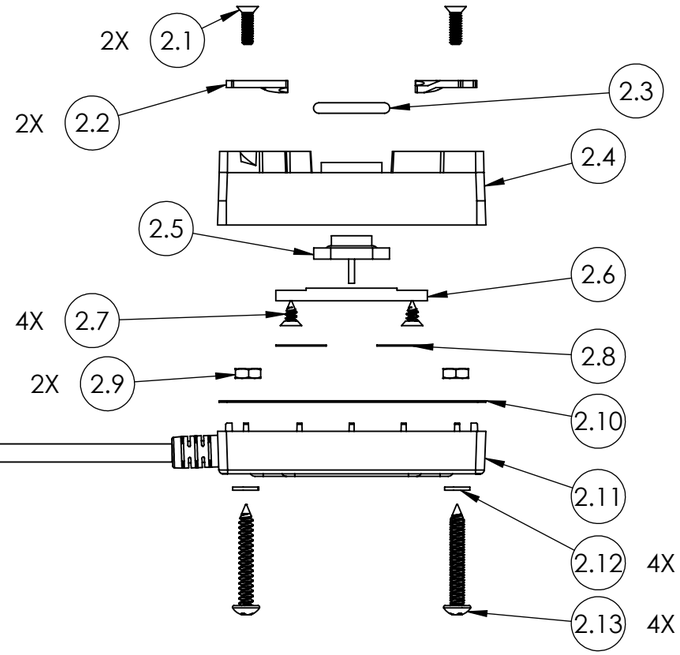
TITLE:
PRC-163 DUAL BATTERY ADAPTOR, 12V UNREGULATED

SIZE	DWG. NO.	REV
B	SN-1034-12V-PRC163	C

CAGE CODE: 1HJX9

SCALE: NA | WEIGHT: | SHEET 1 OF 2





BILL OF MATERIALS: ITEM NO. 1: SN-799-KIT			
ITEM NO.	PART NO.	QTY	NAME/DESCRIPTION
1.1	91099A169	2	4-40 X 1/2" SCREW, 18-8 SS. FLATHEAD PHILLIPS
1.2	91099A167	2	4-40 X 5/8" SCREW, 18-8 SS. FLATHEAD PHILLIPS
1.3	1116-01-106	2	GROUND BAR, SS316, NICKEL PLATED
1.4	1116-01-105-ASSY-F	2	3 POGO PIN ASSEMBLY REV. E
1.4.1	0860-SC	1	0860 POGO PIN, AWG 22 SOLDER CUP, GOLD PLATED BRASS
1.4.2	0861-SC	2	0861-0-15-20-82-14-11-0 POGO PIN WITH SOLDER CUP
1.5	C0120-014-0500-M	2	SPRING
1.6	SN-831-INSERT	1	PLASTIC SPACER FOR CONN-MBITR
1.7	1116-01-101-HOLES	1	MBITR CONNECTOR HOUSING WITH CS HOLES
1.8	1116-01-103	2	THUMB LOCK REV. B
1.9	1116-01-101	2	MBITR CONNECTOR HOUSING
1.10	571-063-R70BT	2	RED TEFLON COATED BUNA O-RING
1.11	FE-411-02B2	1	MBITR CONNECTOR BACK COVER W/ CUT SQUARE HOLE
1.12	FF-681-32C	3	FLAT HEAD SCREW, PHILIPS DRIVE
1.13	FF-083-03C	2	WASHER
1.14	FF-682-04	2	HEX NUT
1.15	FF-681-32A	1	#6 X 1/2" FLAT HEAD SCREW, PHILIPS DRIVE

BILL OF MATERIALS: ITEM NO. 2: CONN-PRC163			
ITEM NO.	PART NO.	QTY	NAME/DESCRIPTION
2.1	91099A167	2	4-40 X 1/2 IN. FLT HD. SCREW
2.2	STEEL-TAB-163	2	STAINLESS STEEL GROUND ABS
2.3	9452K25	1	O-RING, MATING SEAL, BUNA-N RUBBER
2.4	SN-PRC163-CONN	1	PRC-163 MAIN BODY, NEW DESIGN, POLYAMIDE 40% GF
2.5	SN-PRC163-CIRC-ASSY	1	CIRCULAR CONTACT ASSEMBLY, INCLUDES PINS AND O-RING
2.6	SN-PRC-163-3	1	INSULATOR PLATE
2.7	90198A100	4	#4 x 1/4 IN, FLT. HD. SCREW
2.8	W18RR5500	1	AWG 20 JUMPER WIRE, WITH RING TERMINALS
2.9	91831A005	2	18-8 SS NYLON-INSERT LOCKNUT, 4-40 THREAD
2.10	SN-PRC-163-5	1	ADHESIVE LINED SEALING GASKET
2.11	SN-PRC-163-4.1	1	DEEP COVER WITH M8 THREADED EXIT
2.12	SN-PRC-163-6	4	SCREW SEALS
2.13	90935A153	4	#6 X 1.0 IN. PAN HD. BLK OX SCREW

REF. NUMBER: SN0542

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN: INCHES TOLERANCES: .XX: ± 0.03 .XXX: ± 0.005 ANGULAR: .X°: 1° .XX°: 0.5° BREAK EDGES: .005 - .020 FILLETS: .005 - .020 SUFACE FINISH: GEOMETRIC TOLERANCING PER: ASME Y14.5 -2009	DRAWN	MOB	1/5/2021
	CHECKED	RB	1/5/2021
	COMMENTS:		
MATERIAL: SEE DRAWING NOTES			
FINISH: SEE DRAWING NOTES			
DO NOT SCALE DRAWING			

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SupplyNet DESIGN ENGINEERING MANUFACTURING

TITLE:
PRC-163 DUAL BATTERY ADAPTOR, 12V UNREGULATED

SIZE	DWG. NO.	REV
B	SN-1034-12V-PRC163	C

CAGE CODE: 1HJX9 | SCALE: NA | WEIGHT: | SHEET 2 OF 2