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Bambi
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BAMBI POWER PACK
OPERATIONS MANUAL
2019B

BAMBI POWER PACK OPERATIONS MANUAL

Version 2019B

PLEASE READ BEFORE USING.

This manual is applicable to the following models:

BBPP (# 008282)
BBPP-1 (# 015845)

Copies of this manual (#010204) are available from SEI.
The manual is available on the SEI website.
Register for manual update notifications at bambiupdate@sei-ind.com

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Section 1: Overview

Description

The Bambi Power Pack is a 24VDC, rechargeable power supply that allows the Bambi Bucket or Bambi MAX to be operated independently of the aircraft power.

The plastic case contains a NiMH battery pack and battery charger. The charger operates on either a 120V/60Hz or 240V/50Hz mains power supply. Two power cords are included. One has a NEMA 1-5P plug and the other has a CEE7/16 Europlug.

The Power Pack also includes a dump switch harness to operate the bucket valve, a bucket wiring harness to connect to the bucket, and a grounding harness to ground the system to the airframe to eliminate static charge buildup. All of the wiring harnesses and power cords are stowed inside of the case.

A manually operated circuit breaker located on the front of the case can be used to disconnect the battery power from the bucket harness.



Section 2: Charging the Battery

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Battery Charging

1. Determine the mains supply voltage and select the appropriate charger cord.
2. Plug the charger cord into the receptacle on the battery charger.
3. Plug the charger cord into the AC mains receptacle.

CAUTION

If an operational error occurs, the plug should be immediately removed from the receptacle.

4. The indicator will turn orange for 10 seconds.
5. The indicator will turn red during the fast charge cycle.
6. The indicator will flash green and orange during the top-up charge.
7. The indicator will remain green when the battery is fully charged.
8. Disconnect the charger cord from the charger and store in the case.

Charger Indicator		Status
	Orange	Battery Initialization
	Red	Fast Charge
	Green / Flashing Orange	Top-Off Charge
	Green	Trickle charge
	Flashing Red / Flashing Green	Error

CAUTION

The charger contains dangerous voltages and the cover should not be removed.

This battery charger is only designed for indoor use and should not come into contact with water or dust. In order to avoid overheating, the charger should not be covered when it is in use.

Do not charge batteries at too high or too low temperatures.

Do not leave the charger cord connected to the charger for more than 12 hours when the charge indicator is green or the battery pack will be permanently damaged.

NOTICE

The charger is protected against reverse polarity by an automatically resettable polyswitch fuse on the output.

Section 3: Installation and Operation

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NOTICE

The Bambi Power Pack must be charged before use.

Installation

To install the Bambi Power Pack:

1. Open the case and remove the remote dump switch, grounding harness and bucket wiring harness.
2. Close and latch the case lid.
3. Secure the Bambi Power Pack to the aircraft using standard tie-down procedures.
4. Plug the remote dump switch wiring harness into the eight-pin receptacle on the case.
5. Plug the grounding harness into the three pin receptacle on the case.
6. Attach the clip of the grounding harness to a suitable grounding point on the airframe.
7. Plug the bucket wiring harness into the grounding harness.
8. Attach the bucket wiring harness strain relief to a tie-down point in the aircraft. Adjust the strain relief position so that there is no strain on the connection to the case.
9. Connect the other end of the bucket wiring harness to the Bambi bucket head.

Operation

1. Press the circuit breaker in. The green LED should illuminate.
2. Momentarily pull the trigger on the dump switch to open the Bambi Bucket or Bambi MAX valve.

NOTICE

Holding the dump switch trigger will overheat the solenoid on a standard Bambi Bucket.

3. When finished using the Power Pack, pull out the circuit breaker. The LED should extinguish.

NOTICE

Storing the Power Pack with the power on will drain the battery.

Section 4: Specifications and Parts

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Specifications

Battery Type:	NiMH
Output Voltage:	24 VDC
Capacity:	3 AH
Recharge Time:	2 hours
Charger Voltage:	120VAC / 240VAC
Charger Socket:	IEC C8
Power Cords:	IEC C7 x NEMA 1-15P IEC C7 x CEE 7/16 Europlug
Case Size:	16.5 x 13 x 7 inches (420 x 330 x 175 mm)
Weight:	16 lb (7 kg)

Parts

ITEM	MODEL	PART NUMBER	DESCRIPTION	QTY
1	BBPP	005688	BATTERY, 24VDC, NiMH, 3AH	1
	BBPP-1			
2	BBPP	011890	HARNESS, GROUNDING	1
	BBPP-1			
3	BBPP	008902	HARNESS, BUCKET ¹	1
	BBPP-1	015666		
4	BBPP	008900	SWITCH, DUMP	1
	BBPP-1			
5	BBPP	005689	CHARGER, NiMH, 24VDC	1
	BBPP-1			
6	BBPP	005693	CORD, 220VAC, CEE7/16 x IEC C7	1
	BBPP-1			
7	BBPP	005695	CORD, 110VAC, NEMA 1-15P x IEC C7	1
	BBPP-1			

¹ 008902 is equipped with a non-waterproof NEMA connector.

015666 is equipped with a waterproof (IP67) NEMA connector.