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# ***BAMBI POWER PACK OPERATIONS MANUAL***

***2013 VERSION B***

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**BAMBI POWER PACK MANUAL - Version B**

**Issue Date: July 2013**

**PLEASE READ BEFORE USING.**

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**We Engineer Solutions**

**2013 Bambi Power Pack Manual (Version B)**

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## Section 1: Bambi Power Pack Overview

### Description

The Bambi Power Pack is a 24V NiMH, compact, portable and rechargeable power supply used in the operation of the Bambi bucket or Bambi MAX.

It consists of a battery pack, battery charger, bucket wiring harness and remote dump switch harness. This remote power supply allows the bucket to be operated independently of the helicopter wiring.

### ***Bambi Power Pack Specifications***

Battery Type: NiMH

Voltage: 24 VDC

Capacity: 3 AH

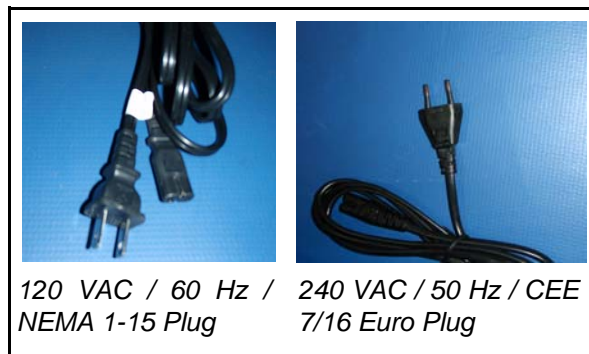
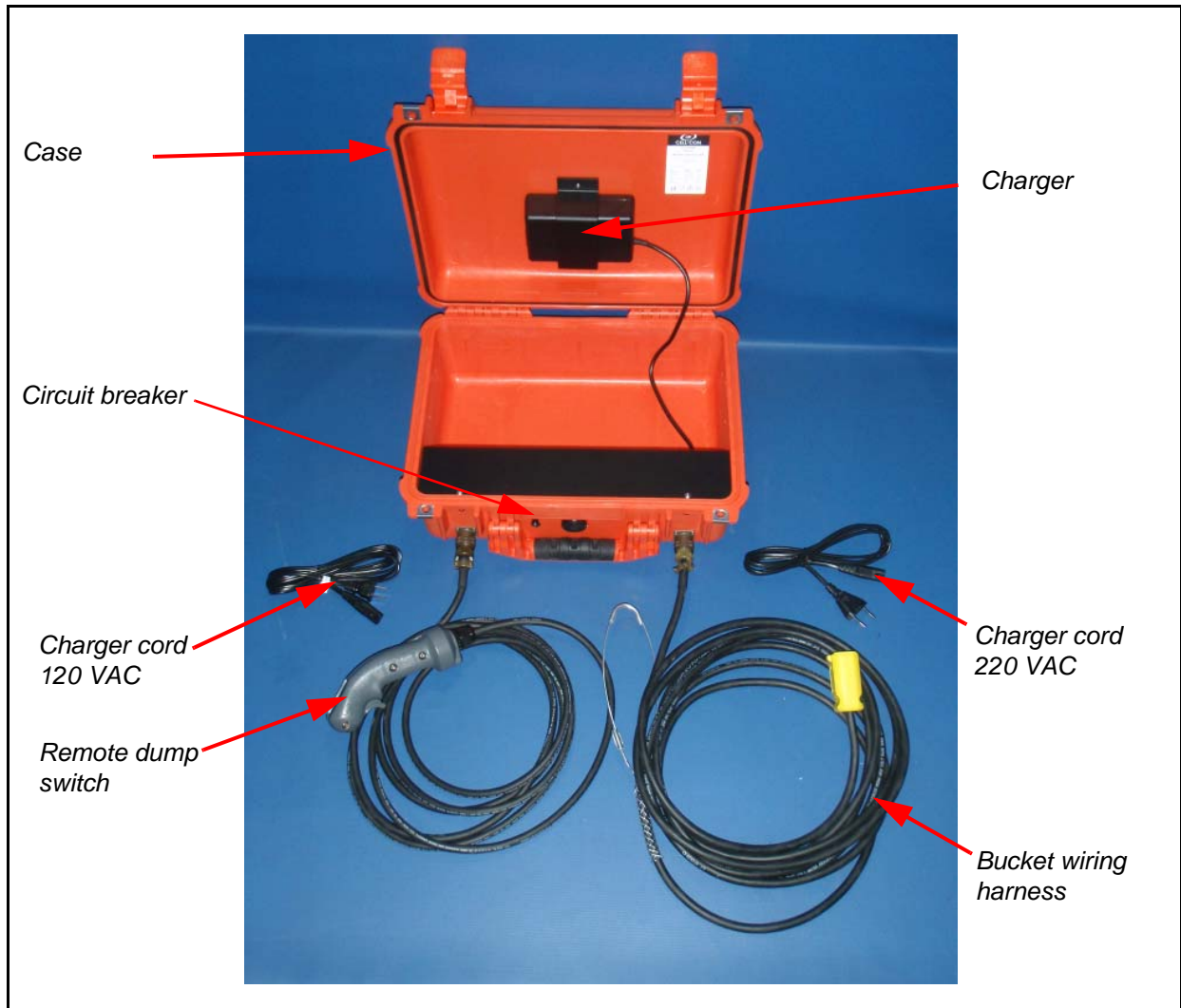
Recharge: 2 hours

Case Size: 16.5 x 13 x 7 inches (420 x 330 x 175 mm)

Weight: 16 lbs. (7 kg)



## Components



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## Section 2: Charging the Battery

### Battery Charger Instructions

Read these instructions before using the charger.

#### Caution

Do not charge batteries at too high or too low temperatures. See the technical specifications for the batteries for allowed temperature ranges.

- If the power is turned off, the charger will reset and start a new charge cycle if the mains are turned on again.
- If new batteries are to be connected, the charger must idle for approximately 15 seconds to make sure all parameters in the microprocessor have been reset. The LED changing to a yellow light shows this and a new charge cycle can begin.
- The charger contains dangerous voltages and the cover should not be removed. All service or maintenance work should be carried out by qualified personnel who can get assistance by contacting the manufacturer's agent.
- 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.
- The charger is protected against reverse polarity by an automatically resettable polyswitch fuse on output.

**Battery Charging**

1. Plug the charger cord into the two-pin receptacle on the battery charger.
2. Plug the charger cord into the AC mains.
3. The mains socket should be easily accessible. If an operational error occurs, the plug should be immediately removed from the socket.
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.

**Caution**

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

**LED Indicators**

LED	Mode
Orange	Battery not connected
Orange	Battery initialization and analysis
Red	Fast charge
Green with intermittent orange flash	Top-off charge
Green	Trickle charge
Alternating red-green	Error

## Section 3: Installation and Operations

### Instructions

To install and use the Bambi Power Pack, please follow these instructions:

1. The Bambi Power Pack must be charged before use.
2. Remove the remote dump switch and bucket wiring harness from the case. 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 bucket wiring harness into the three-pin receptacle on the case.
6. 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.
7. Connect the other end of the bucket wiring harness to the Bambi bucket head.
8. Press the circuit breaker in. The green LED light should illuminate.
9. *Momentarily* pull the trigger on the remote dump switch to open the Bambi bucket valve.



#### Important Note

Holding the dump button down will overheat the solenoid on a standard Bambi bucket.

10. When finished using the power pack, pull out the circuit breaker. The LED light should extinguish.

#### Important Note

Storing the power pack with the power on will drain the battery.



## Section 4: Parts List

### Bambi Power Pack



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	008902	Harness, Bucket	1
2	008900	Remote Dump Switch	1
3	005693	Cord, 220 VAC, CEE7/16 Euro Plug	1
4	005695	Cord, 110 VAC NEMA 1-15, Bambi Remote Power Supply	1