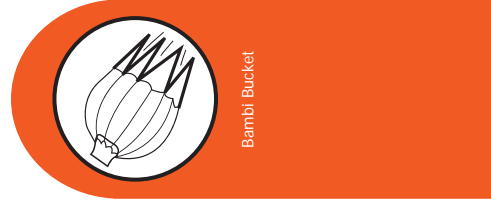
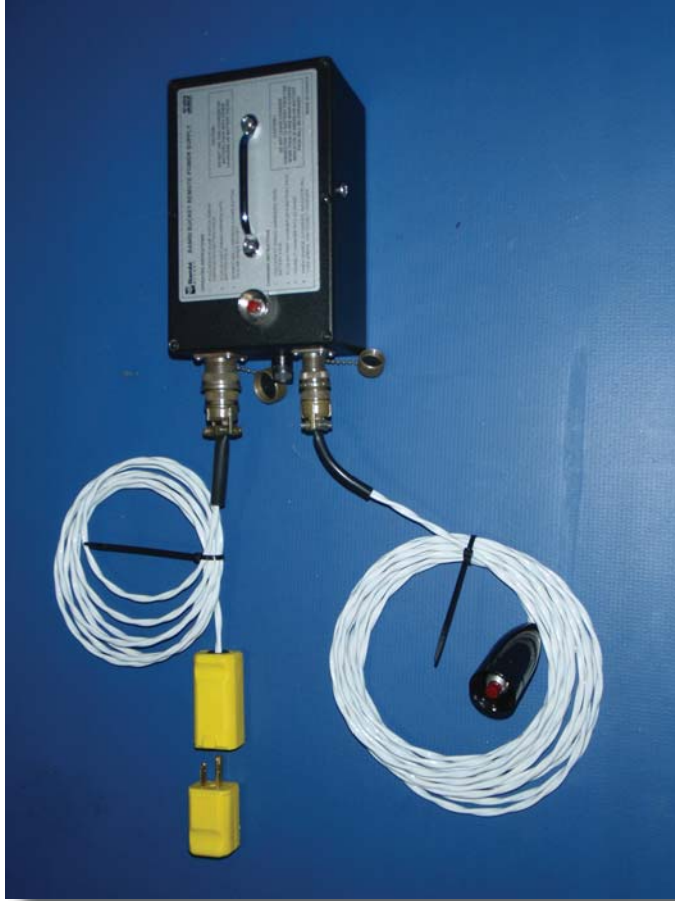
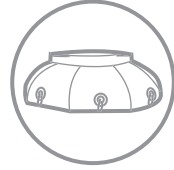


REMOTE POWER SUPPLY MANUAL



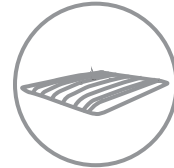
Bambi Bucket



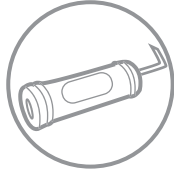
Fireflex



Dragon



Remote Site



Environmental



Emergency Response



REMOTE POWER SUPPLY MANUAL - Version C

Issue Date: JUNE 2009

PLEASE READ BEFORE USING.

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We Engineer Solutions

Bambi Bucket Remote Power Supply Manual (Version C) 0

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Section 1: Remote Power Supply Overview

Description

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

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.

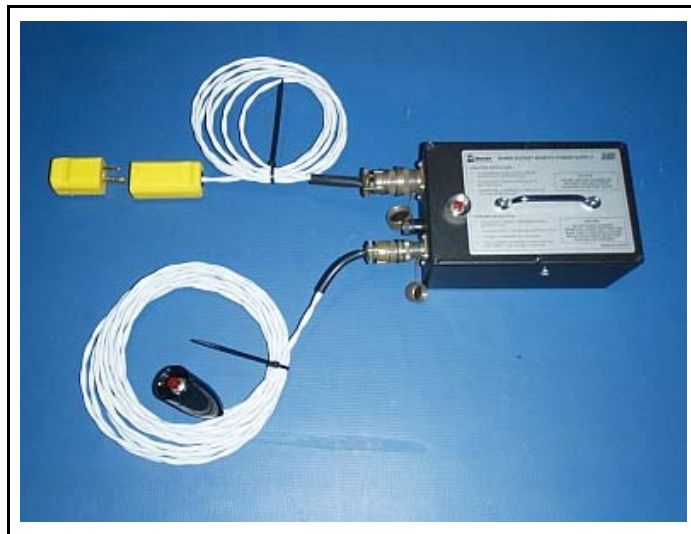
Remote Power Supply Specifications

Voltage: 24 VDC

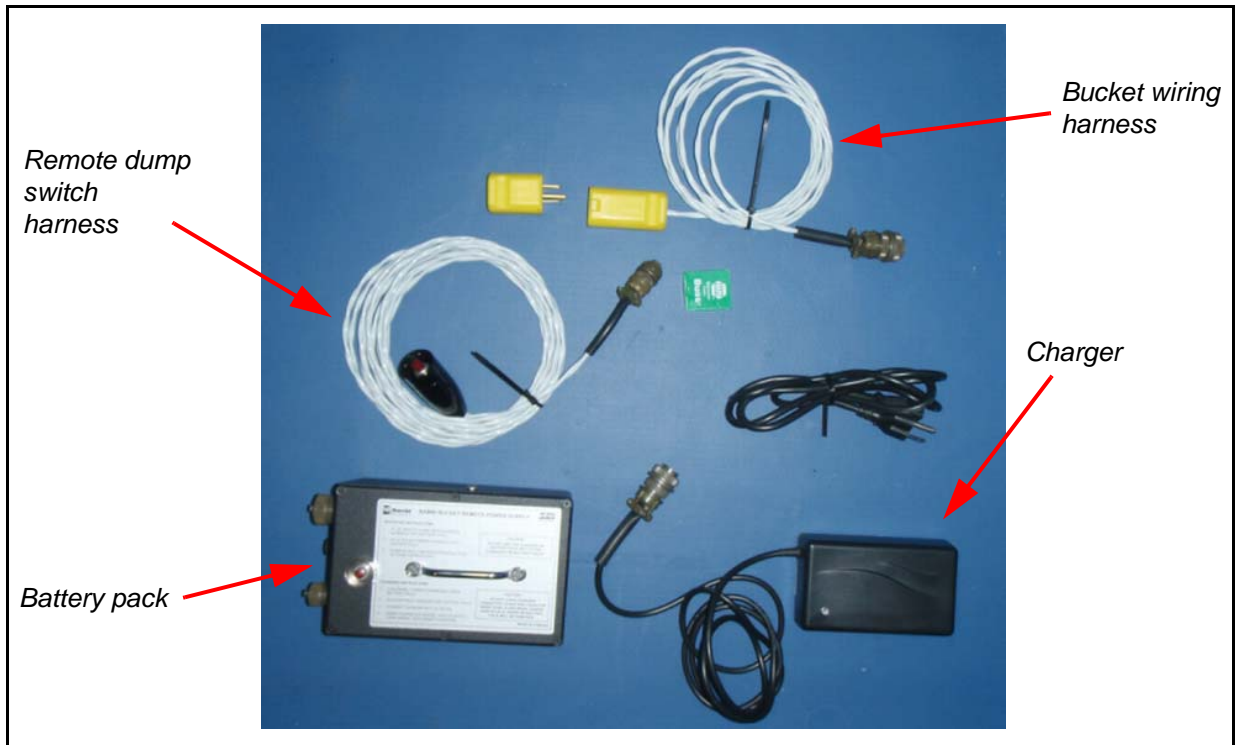
Amp Hours: 3 AH

Case Size: 7.5 X 4.7 X 3.2 inches (190 X 120 X 80 mm)

Weight: 6.25 lbs. (28 kg) excluding charger

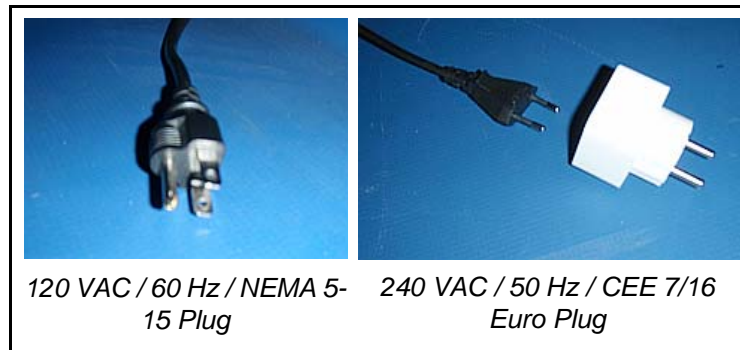


Components



The battery charger is available in two models, depending on the AC line voltage:

BB997	Remote Power Supply with Charger Bambi 110V AC Complete Kit
BB998	Remote Power Supply with Charger Bambi 220V AC Complete Kit



Section 2: Charging the Battery

Battery Charger Instructions

Read these instructions before using the charger. This charger is a fast charger for NiCd / NiMH batteries only.

Caution

- When charging separate battery cells, avoid charging cells with different rest-capacities at the same time.
 - Do not charge batteries at too high or too low temperatures. See the technical specification for the batteries for allowed temperature ranges.
 - Make sure the batteries can handle the charge current. Contact the battery manufacturer for details.
 - Make sure the batteries are connected with the correct polarity.
 - Never charge more battery cells than what the charger is designed for.
-
- 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. Disconnect the remote dump switch wiring harness from the battery pack.
2. Disconnect the bucket wiring harness from the battery pack.
3. Plug the battery charger into the four pin receptacle on the battery pack.
4. Plug the power supply cord of the battery charger into the AC mains.
5. The mains socket should be easily accessible. If an operational error occurs, the plug should be immediately removed from the socket.
6. The indicator will turn orange for 10 seconds.
7. The indicator will turn red during the fast charge cycle.
8. The indicator will flash green and orange during the top-up charge.
9. The indicator will remain green when the battery is fully charged.
10. Disconnect the charger from the battery pack.



Caution

Do not leave the charger connected to the battery pack 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

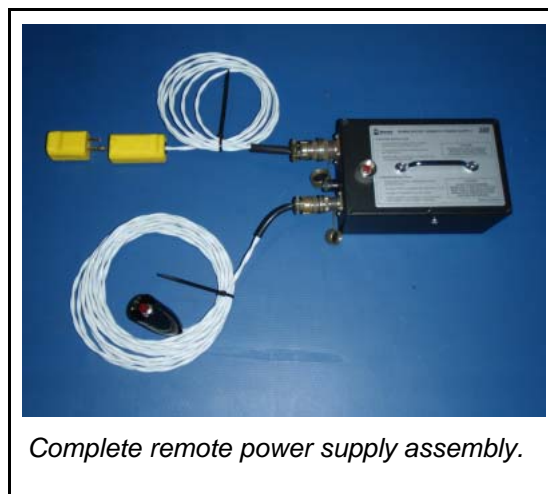
Instructions

To install and use the remote power supply, please follow these instructions:

1. The power supply must be charged before use.
2. Plug the remote dump switch wiring harness into the two-pin receptacle on the battery pack.
3. Plug the bucket wiring harness into the four-pin receptacle on the battery pack.
4. Connect the other end of the bucket wiring harness to the Bambi bucket head
5. *Momentarily* depress either the button on the battery pack or the remote dump switch to empty the Bambi bucket.

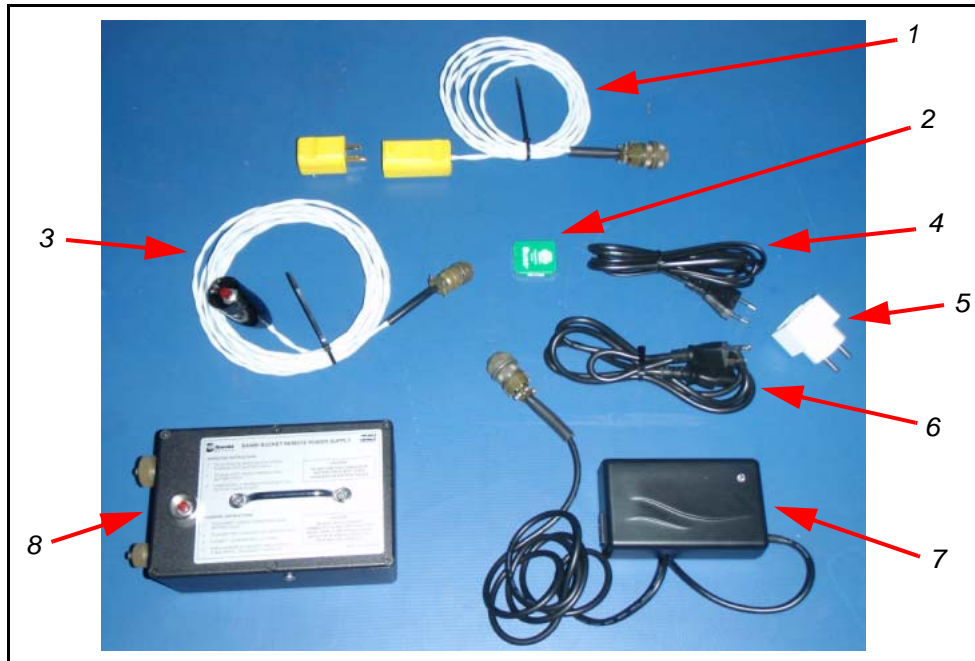
Important Note

Holding the dump button down will overheat the solenoid.



Section 4: Parts List

Remote Power Supply



ITEM	PART #	DESCRIPTION	QTY.
1	BB990	Harness, Bucket, Bambi Remote Power Supply	1
2	EFUS004	Fuse, 5 A, (Extra found inside battery box) ¼" X 1 ¼"	2
3	BB991	Harness, Remote Dump Switch, Bambi Remote Power Supply	1
4	BB992	Cord, 220 VAC, CEE7/16 Euro Plug	1
5	BB993	Adapter, 220 VAC, CEE7/17 Schuko X CEE7/16 Euro Plug	1
6	BB994	Cord, 110 VAC NEMA 5-15, Bambi Remote Power Supply	1
7	BB995	Charger, 24 VDC, Bambi Remote Power Supply	1
8	BB996	Battery Pack, 24 VDC, NiMH 3AH, Bambi Remote Power Supply	1