

Torrentula Valve Remote Power Supply

Operator's Manual

For use with Model 2732 to HL9800 Torrentula Valve Bambi Buckets

Kit part No. BTSK00750

Issue Date: June 2004

Revision: O

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Table of Contents

	Page
1. Instructions for use	3
2. Maintenance	4
3. Parts	5
4. Wiring diagram	8
5. Specifications	9
6. Warranty	10
Appendix	
A. Battery specifications	
B. Battery Material Safety Data Sheet	
C. Charger specifications	

1. Instructions for use

1.1 Charging prior to use

1. Set input voltage switch on charger to match supply voltage:
Select 110V /60 Hz or 220V / 50 Hz
2. Plug charger into AC supply

Caution: Always charge the RPS in the upright position.

3. Connect charger DC output connector to charge port receptacle on the Remote Power Supply (RPS)
4. Turn on charger
5. Monitor charger lights: Red light indicates charger is on, Amber light indicates charge condition
6. Charge is complete when amber light turns to green
7. Soneil 2408 model charger can remain connected indefinitely to maintain a full charge until the RPS is ready for use.

1.2 Connection to Torrentula Valve Controller box

1. Mount the Torrentula controller box to the top of the RPS, using the attached over-center latches. The RPS can be mounted to the side of the Torrentula controller if desired
2. Connect one end of wire harness H11 to the RPS output receptacle and the other end to receptacle #1 (R1) on the Torrentula Controller
3. Confirm that the Torrentula Controller power “on” LED is lit.

1.3 In-field charging

1. If the power supply is to remain connected to the Torrentula Controller, pull the RPS circuit breaker prior to connecting the charger
2. Full charge may take up to 4 hours
3. Reset RPS circuit breaker prior to use
4. In-flight charging of the RPS is not recommended.

Caution: Use only the supplied charger or charger suitable for charging 24 volt SLA type batteries. See appendix A for battery specifications. See Appendix C for battery charger specifications.

2. Maintenance

2.1 Troubleshooting

Problem	Cause	Solution
System will not operate when first connected	1. Missed cable connection 2. Batteries discharged	1. Double check all connections 2. Charge batteries
RPS voltage low	Batteries discharged	Charge batteries
RPS voltage low after four hours charging	Batteries old, damaged or defective	Replace batteries as a set
System stops operating suddenly	Excessive current draw circuit breaker tripped	Correct system fault, reset circuit breaker

2.2 Seasonal inspection, prior to use

1. Fully charge RPS
2. Check voltage. The minimum no-load voltage when fully charged should exceed 25 Volts at room temperature.
3. Inspect case and wire harnesses for damage and wear. Repair as necessary.

2.3 Maintenance during use

1. On condition

2.4 Storage

1. Clean external surfaces with a mild soapy rag.

Warning: do not immerse or pressure wash RPS case

2. Charge prior to storage
3. Store indoors away from moisture and direct sunlight at normal room temperature
4. Charge RPS every 3 months. Note: Soneil model 2408 charger may be connected indefinitely during storage to maintain full charge.

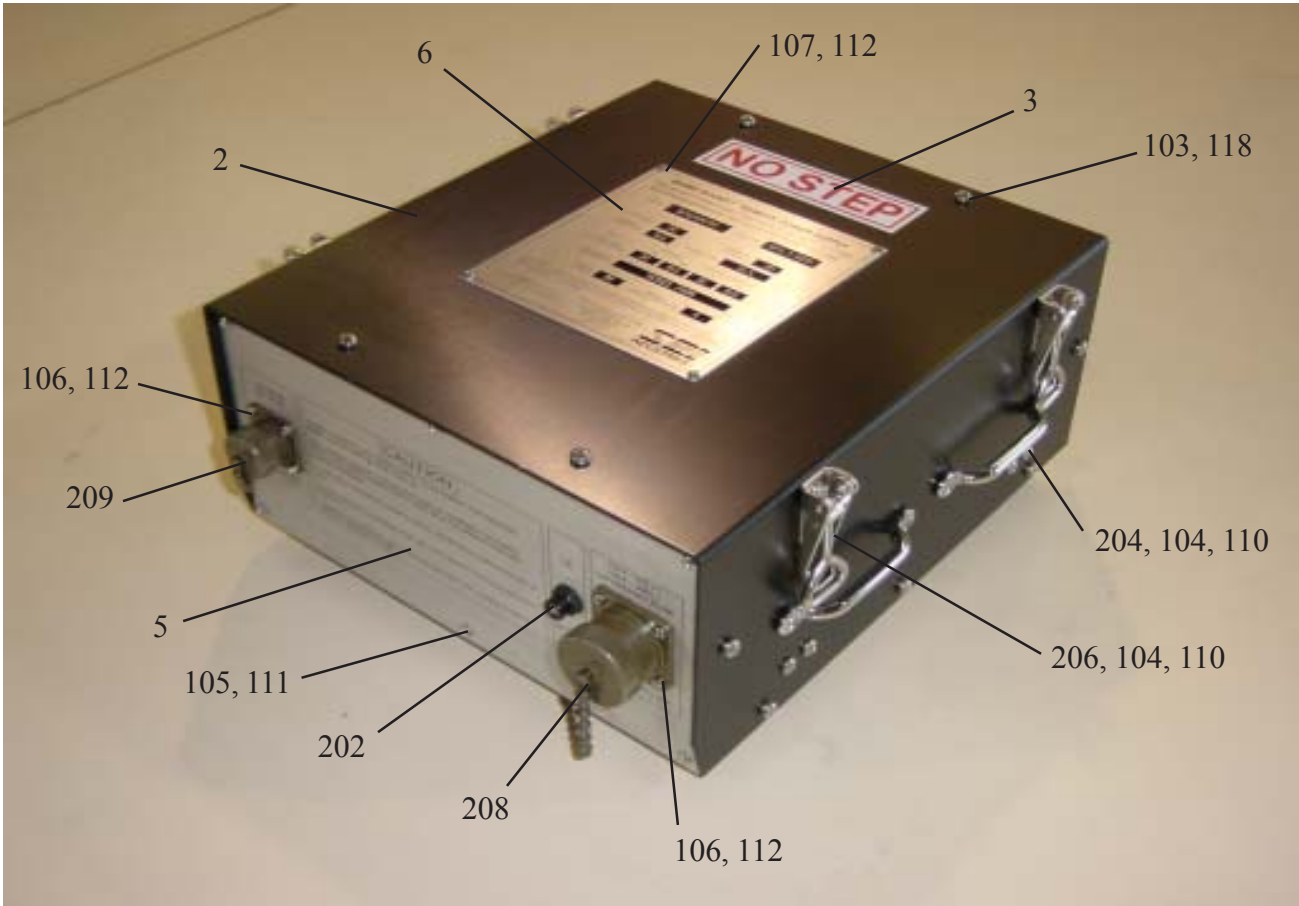
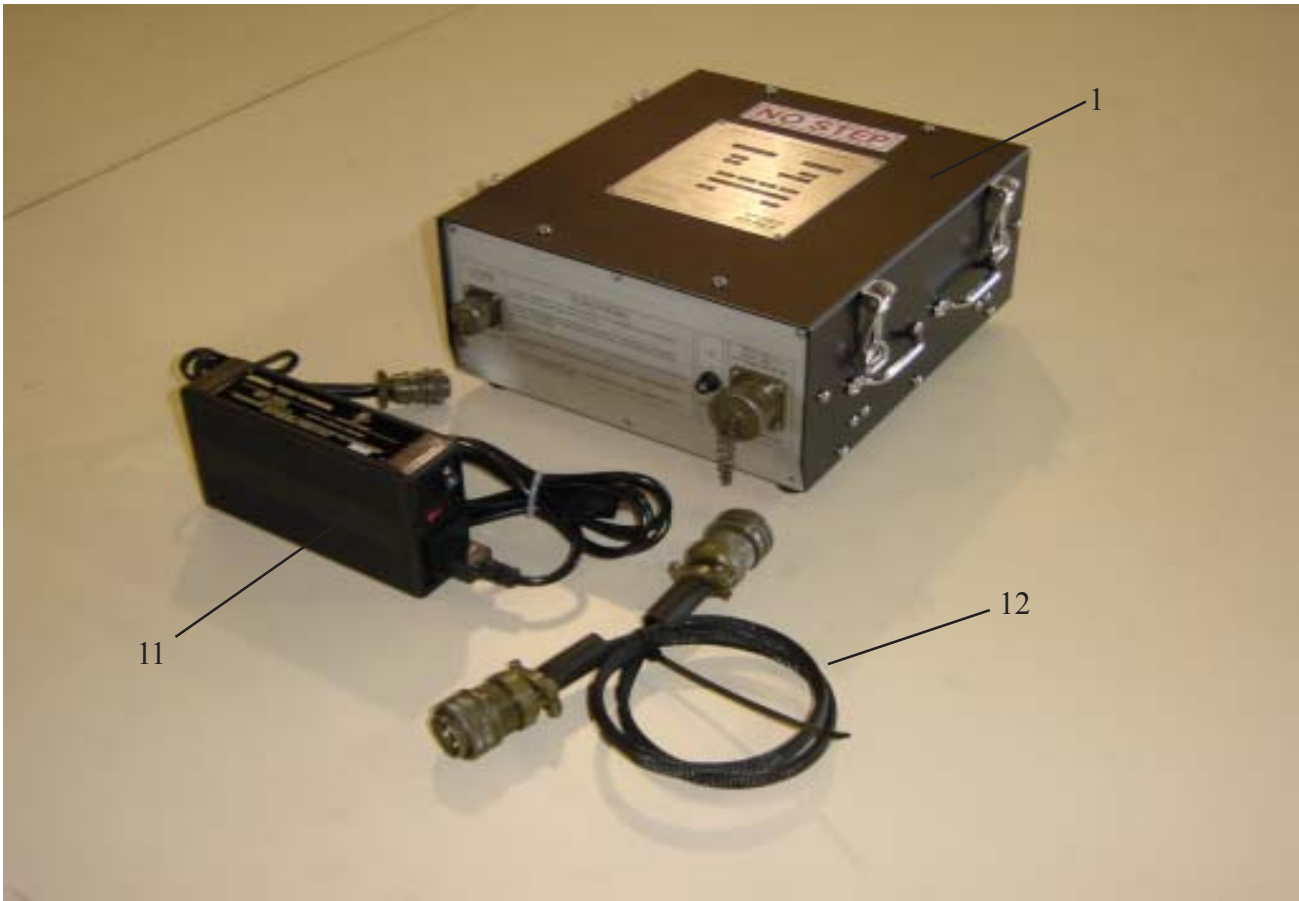
2.5 Battery life

Battery life is largely determined by conditions and frequency of use, but it is recommended that the batteries be replaced as a set at least every 5 years.

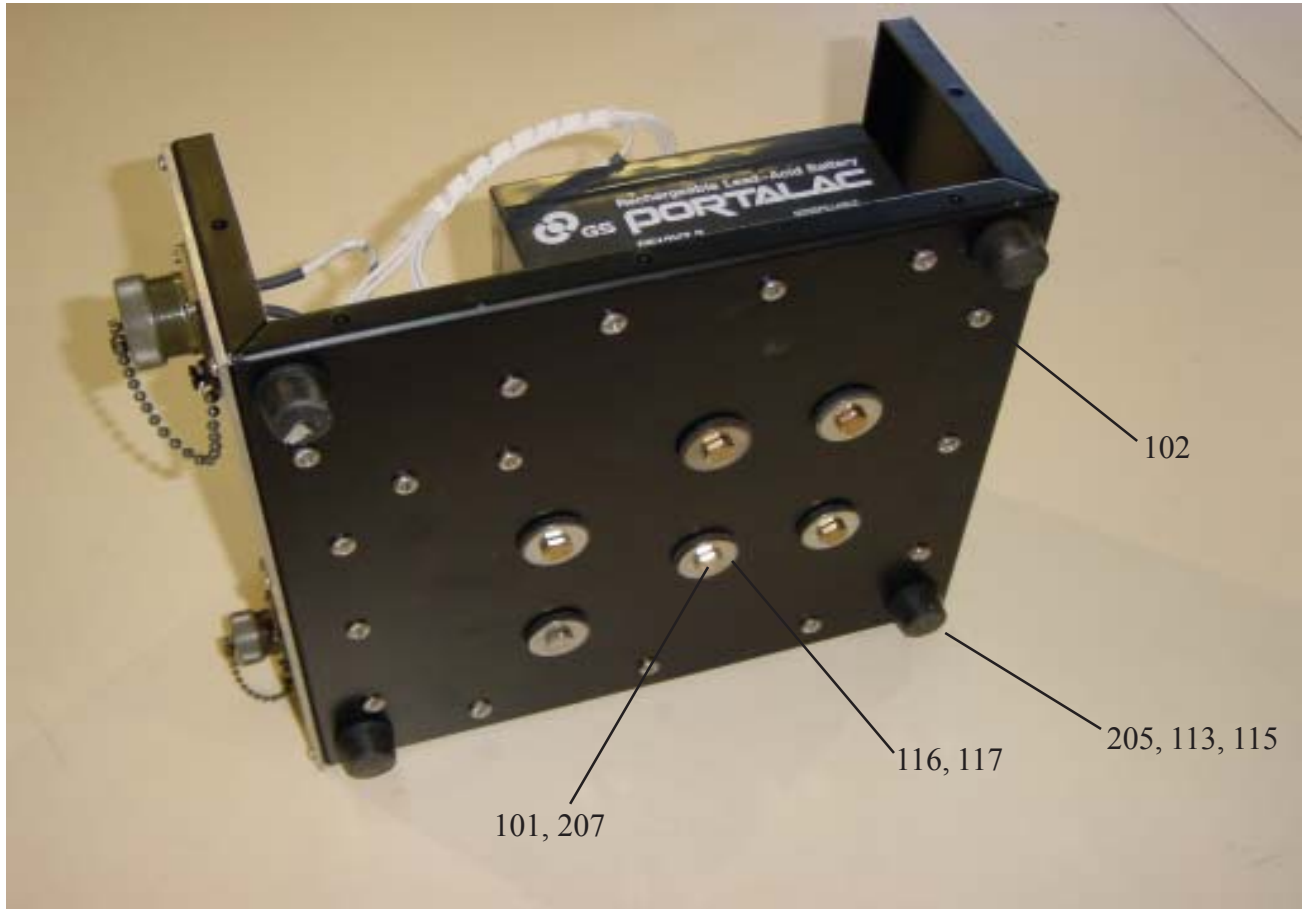
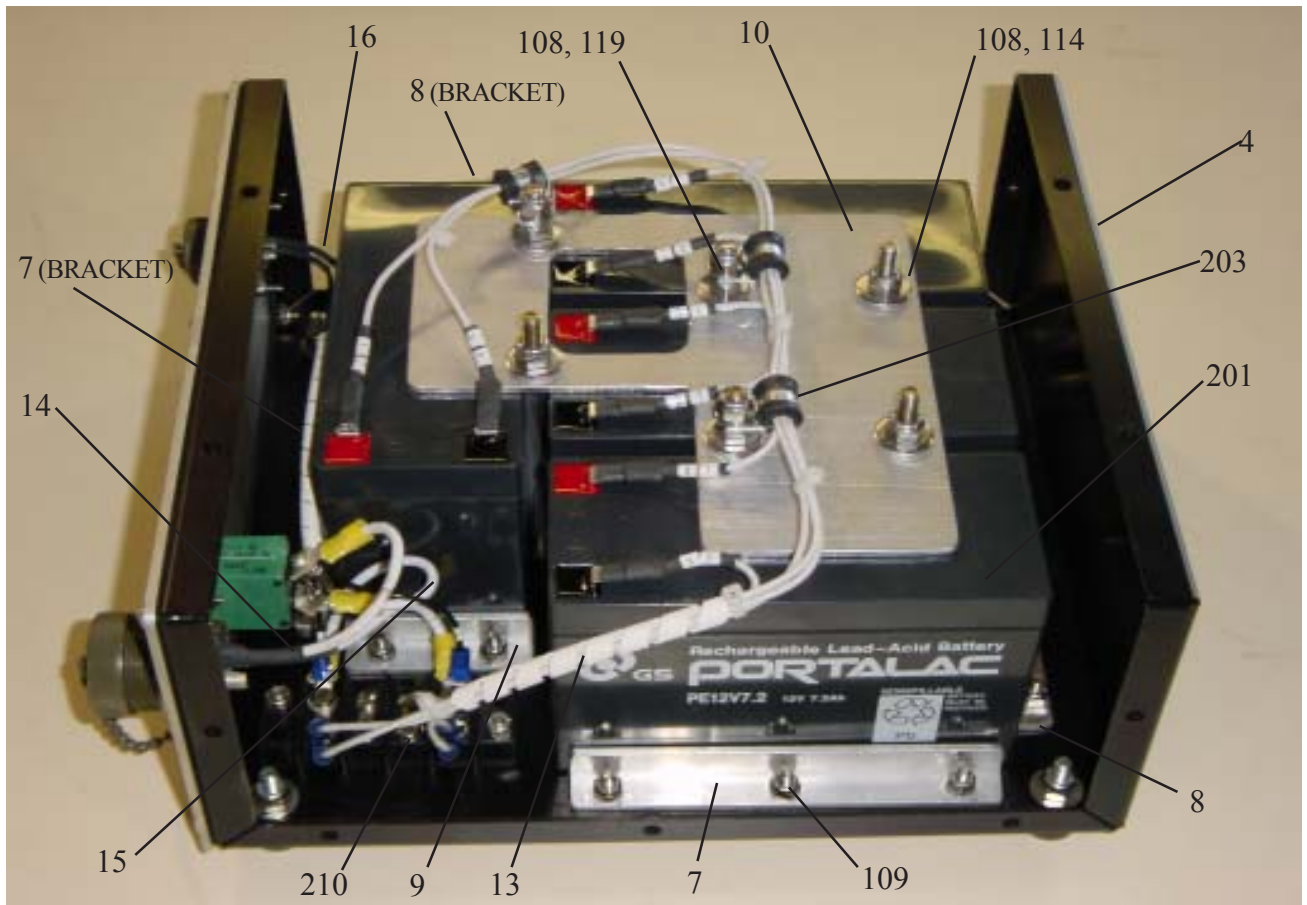
3. Parts

ITEM	SEI/P/N	DESCRIPTION	MATERIAL/SIZE	QTY.
1	BTSA00751	RPS BOX ONLY, WITH BATTERIES		1
2	BTSP00421	ENCLOSURE LID	ALUM	1
3	BTSP00427	"NO STEP" DECAL	VINYL, W/ ADHESIVE	1
4	BTSP00753	ENCLOSURE BASE	ALUM	1
5	BTSP00755	ENCLOSURE FACE PLATE	ALUM	1
6	BTSP00756	MACHINE TAG	ALUM	1
7	BTSP00757	ANGLE BRACKET #1	ALUM	2
8	BTSP00758	ANGLE BRACKET #2	ALUM	2
9	BTSP00759	ANGLE BRACKET #3	ALUM	1
10	BTSP00760	BATTERY CLAMP PLATE	ALUM	1
11	BTSA00761	BATTERY CHARGER	SONEIL 2408, W/PLUG	1
12	BPSA00311	WIRE HARNESS H11		1
13	BTSA00765	WIRE HARNESS W65		1
14	BTSA00766	WIRE HARNESS W66		1
15	BTSA00767	WIRE LEAD W67		1
16	BTSA00768	WIRE HARNESS W68		1
101	FBPF010450	BOLT	PLATED, 1/4-28 X 5" LG	6
102	FBSC040305	MACHINE SCREW, PANPHIL	SS, 10-24 X 5/8" LG	16
103	FBSC040203	MACHINE SCREW, PANPHIL	SS, 8-32 X 3/8" LG	14
104	FBSC030204	MACHINE SCREW, CSKPHIL	SS, 8-32 X 1/2" LG	16
105	FBSC040104	MACHINE SCREW, PANPHIL	SS, 6-32 X 1/2" LG	6
106	FBSF04005	MACHINE SCREW, PANPHIL	SS, 4-40 X 5/8" LG	8
107	FBSF04003	MACHINE SCREW, PANPHIL	SS, 4-40 X 3/8" LG	4
108	FNSF0204	NYLOCK NUT	SS, 1/4-28	9
109	FNSC0203	NYLOCK NUT	SS, 10-24	16
110	FNSC0202	NYLOCK NUT	SS, 8-32	30
111	FNSC0201	NYLOCK NUT	SS, 6-32	6
112	FNSF0200	NYLOCK NUT	SS, 4-40	12
113	FNSC0204	NYLOCK NUT	SS, 1/4-20	4
114	FWS0104H	THICK WASHER	SS, 1/4ID X 3/4OD X 1/8THK	6
115	FWS01040	PLAIN WASHER	SS, 1/4ID X 11/16OD	4
116	FWS060310	FENDER WASHER	SS, 1/4ID X 1"OD	6
117	FWR0106	NEOPRENE WASHER	RUBBER, 1/4ID X 1"OD	6
118	FWS0502	SPLITLOCK WASHER	SS, #8	14
119	FWS0304	PLAIN WASHER	SS, 1/4ID (AN960-416)	3
201	EBAT003	BATTERY	SLA, 12V 7.2Ah	4
202	EBRE030	CIRCUIT BREAKER	30 AMP, MS14105-30	1
203	PP023	RUBBER-LINED CLAMP	STEEL, #4, 1/4" ID	3
204	PP265	EYE STRAP	SS, 2" THROAT	4
205	PP722	VIBRATION MOUNT	RUBBER, 1/4" STUD	4
206	PP260	CATCH	SS	4
207	EWIRA004	HEAT SHRINK TUBING	POLYOLEFIN	2 FT.
208	ECON97MS062	RECEPTACLE CAP	#20 SHELL	1
209	ECON97MS061	RECEPTACLE CAP	#14 SHELL	1
210	ETERM002	TERMINAL STRIP	4 CONTACT	1

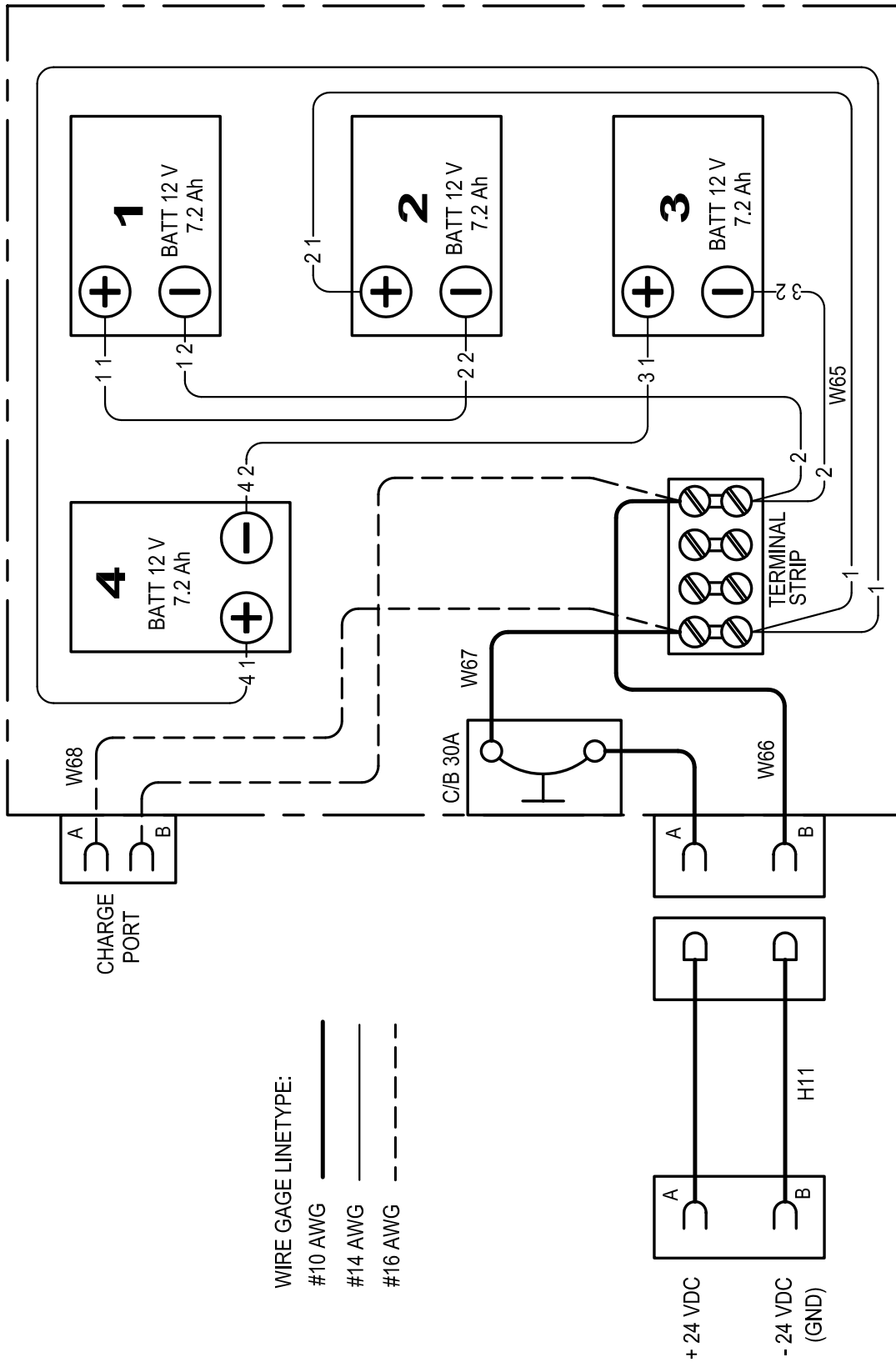
3. Parts



3. Parts



4. Wiring Diagram



5. Specifications

TORRENTULA VALVE REMOTE POWER SUPPLY

Kit P/N: BTSK00750

Recommended use

Independent rechargeable power supply for operation and maintenance of Torrentula Valve Bambi buckets

Battery pack specifications

Type: Sealed Lead-Acid (SLA)

Voltage: 24V DC

Capacity: 14.4 Ah

Configuration: 2S-2P, 4 x 12v 7.2 Ah batteries

Performance: 200 - 300 open and close cycles per charge

Recharge time: Maximum 4 hours w/supplied charger

Dimensions

RPS case: 13" L x 12-1/8" W x 5-1/2" H (33 x 31 x 14 cm)

Power lead length: 24" (0.61m)

Charger: 6.9" L x 3.7" W x 1.9" H (18 x 9.4 x 4.8 cm)

Weights

RPS, with power lead: 35 lb (15.9 kg)

RPS only: 34 lb (15.4 kg)

Charger: 1.5 lbs (0.68 kg)

Construction

Enclosure: 0.80" (2mm) 5052-T3 aluminum, black anodized finish

Wiring: MIL-W-22759/16

Circuit breaker: MIL-C-5809

Connectors: Mil-C-5105

Cargo tie-down: 4 x 200lb (91 kg) eye straps

Charger power requirements

110 / 60Hz AC or 220 / 50Hz AC, single phase

Standard equipment included with RPS

- 24 volt battery charger
- Power output lead

Optional equipment

- RPS case with batteries only, PN BTSA00751
- Charger only, PN BTSA00761

6. Warranty

SEI Industries Ltd. (The Company) agrees to grant a Warranty for a period of one year from the date of purchase of Bambi Bucket systems on the following conditions:

- a) The Company's sole obligation under this Warranty is limited to repairing or replacing, at the company's sole discretion, any product proved to be defective.
- b) The Company's products are not guaranteed for any specific length of time or measure of service, but are warranted only to be free from defects in workmanship and material for a period of one year to the original purchaser.
- c) To the extent allowable under applicable law, the Company's liability for consequential and incidental damages is expressly disclaimed. **The Company's liability in all events is limited to, and shall not exceed, the purchase price paid.**
- d) This Warranty is granted to the original purchaser of Bambi Bucket systems and does not extend to a subsequent purchaser or assignee.
- e) The Company must receive notification in writing of any claims of Warranty from the original purchaser which must give details of the claimed defect in the product.
- f) Where the original purchaser is claiming under Warranty, the product must be returned to the Company for inspection with all transportation and duty charges prepaid.
- g) The Warranty does not extend to any product that has been accidentally damaged, abraded, altered, punctured, abused, misused or used for a purpose which has not been approved by the Company.
- h) This Warranty does not apply to any accessories used with the product that are not supplied by the Company, and any Warranty on such accessories must be requested from the manufacturer or dealer of the accessories.
- i) In the event the original purchaser does not give notice of a Warranty claim within one year of the original purchase of the product, it is understood that the purchaser has waived the claim for Warranty and the purchaser and/or any subsequent purchaser must accept the condition of the product as it may be, without Warranty.
- j) Any technical information supplied by the Company regarding the product is not a condition of Warranty but rather is information provided by the Company to the best of its knowledge.
- k) There are no implied warranties nor is there any Warranty that can be assumed from any representation of any person, except the Company itself.

Exclusions

- l) This Warranty is void if the product is not installed, used and/or maintained in accordance with the Field Manual supplied by SEI.
- m) All Bambi Buckets are designed and manufactured with substantial safety margins. It is the responsibility of the user to ensure that the bucket is maintained to a safe standard.