

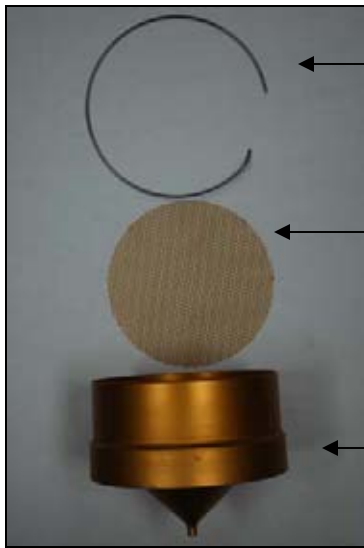
# ***RAIN BUCKET***



# ***TROUBLESHOOTING***



## RAIN BUCKET PARTS IDENTIFICATION



← DEBRIS SCREEN RETAINING RING

← DEBRIS SCREEN

← ANODIZED COLLECTOR FUNNEL

UPPER ASSEMBLY



POLE MOUNTED BUCKET



← TIPPING BUCKET ASSEMBLY

← MOUNTING BRACKET

← WIRING HARNESS

← MOUNTING CLAMPS

← MOUNTING SCREWS

LOWER ASSEMBLY

**RAIN BUCKET TROUBLESHOOTING**

**REQUIRED TOOLS**

- Digital Multi-meter.
- Common Screwdriver (small)
- Philips Screwdriver
- Wire Strippers
- 2 wire connectors
- 10" 14 AWG jumper wire



**PROBLEM ZERO PULSES**

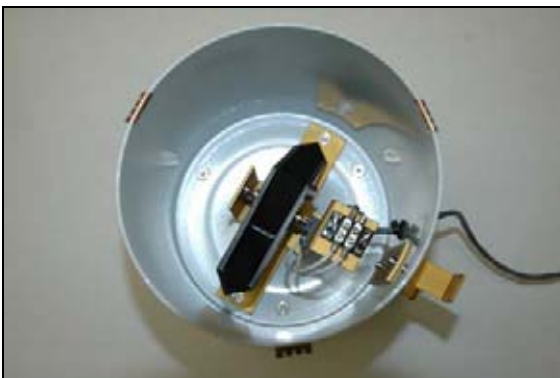
Due to the RB-1 running on 5 volts DC the positive and negative wires must be matched throughout all the wiring when sharing with more than one controller. When wires are not matched up consistently throughout the system, the RB-1 will not be able to send rain readings.

Check the physical condition of the rain bucket. Check for damaged or broken wires.



 **CHECKING THE  
RAIN BUCKET  
STEP 1**

Check for loose debris inside the Bucket on the collector screen.



 **CHECKING THE  
RAIN BUCKET  
STEP 2**

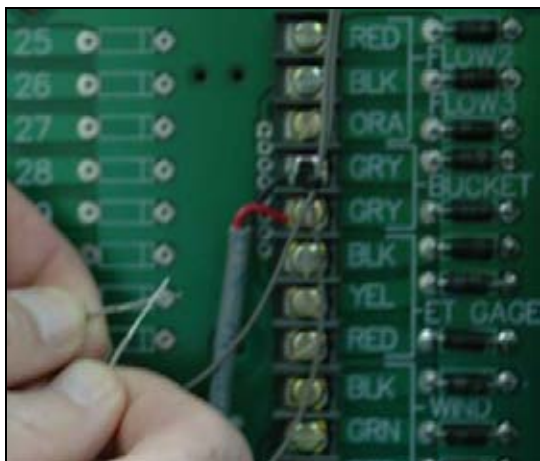
Check the Funnel and body for damage, or debris.

 **TROUBLESHOOTING AT  
THE CONTROLLER  
STEP 3**

Disconnect the field wires from the Rain Bucket terminals at the controller.

Check for 5 VDC at the TP-1 Board terminals or –RB option wire harness coming from controller.



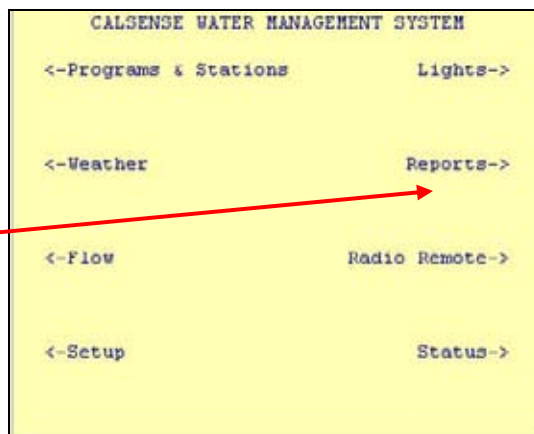


**TROUBLESHOOTING AT THE CONTROLLER**  
**STEP 4**

Disconnect the two grey –RB option wires from the controller wiring harness and tap them together twice. If using a TP-1 Board jumper the –RB option wiring posts together twice.

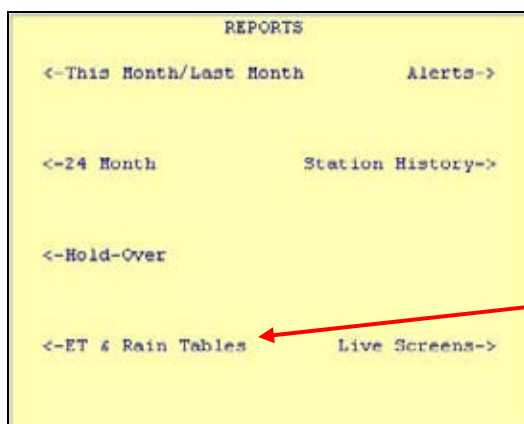
**TROUBLESHOOTING AT THE CONTROLLER**  
**STEP 5**

At the controller press the **REPORTS** Menu Key.



**TROUBLESHOOTING AT THE CONTROLLER**  
**STEP 6**

Press the **ET & RAIN TABLES** Menu Key.





**TROUBLESHOOTING AT THE CONTROLLER**  
**STEP 7**

Prior to tapping the wires the screen should have read Tables: 0, Report: 0.

ET & RAIN TABLES						
ET Table: (from 10/09/2005 back)						
Sun	Sat	Fri	Thu	Wed	Tue	Mon
h.16	h.16	h.16	h.16	h.16	h.16	h.16
h.16	h.16	h.24	h.24	h.24	h.24	h.24
h.24	h.24	h.24	h.24	h.24	h.24	h.24
h.24	h.24	h.24	h.24	h.24	h.24	h.24
Rain Table: (table:0 report:0)						
Sun	Sat	Fri	Thu	Wed	Tue	Mon
	r.05	r.05	m.01	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00

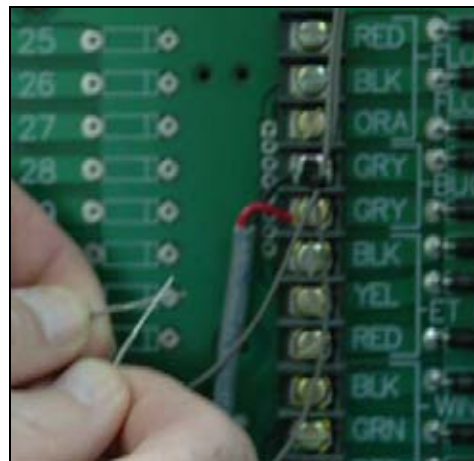
ET & RAIN TABLES						
ET Table: (from 10/09/2005 back)						
Sun	Sat	Fri	Thu	Wed	Tue	Mon
h.16	h.16	h.16	h.16	h.16	h.16	h.16
h.16	h.16	h.24	h.24	h.24	h.24	h.24
h.24	h.24	h.24	h.24	h.24	h.24	h.24
h.24	h.24	h.24	h.24	h.24	h.24	h.24
Rain Table: (table:0 report:2)						
Sun	Sat	Fri	Thu	Wed	Tue	Mon
	r.05	r.05	m.01	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00

**TROUBLESHOOTING AT THE CONTROLLER**  
**STEP 8**

After tapping the two grey wires together the screen should read Table: 0, Reports : 2 after two minutes have passed.

**TROUBLESHOOTING AT THE CONTROLLER**  
**STEP 9**

Again tap the two grey –RB option wires together twice. If using a TP-1 Board jumper the –RB option terminal posts twice.



ET & RAIN TABLES

ET Table: (from 10/09/2005 back)

Sun	Sat	Fri	Thu	Wed	Tue	Mon
h.16	h.16	h.16	h.16	h.16	h.16	h.16
h.16	h.16	h.24	h.24	h.24	h.24	h.24
h.24	h.24	h.24	h.24	h.24	h.24	h.24
h.24	h.24	h.24	h.24	h.24	h.24	h.24

Rain Table: (table:0 report:4)

Sun	Sat	Fri	Thu	Wed	Tue	Mon
	r.05	r.05	m.01	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00
o.00	o.00	o.00	o.00	o.00	o.00	o.00



## TROUBLESHOOTING AT THE CONTROLLER

### STEP 10

View the controller screen. It should read Table: 0, Reports: 4 after two minutes.



## TROUBLESHOOTING AT THE CONTROLLER

### STEP 11

If no change is noticed on the controller screen after following these steps. Contact Calsense at 1-(800)-572-8608 for further assistance.

**This concludes Rain Bucket Troubleshooting**





**2075 Corte del Nogal, Suite P, Carlsbad CA 92011**  
**1-(800)-572-8608 FAX: 1-(760)-438-2619**  
**[www.calsense.com](http://www.calsense.com)**

Stock Number: PG1-RB-E

Rev. 03/06



**making water work**

**since 1986**