

# **BCS**High Resolution Digital Crane Scale



### **User Instructions**

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# 1 General Information and Warnings

#### 1.1 About this Manual

This manual is divided into chapters by the chapter number and the large text at the top of a page. Subsections are labeled as shown by the 1 and 1.1 headings shown above. The names of the chapter and the next subsection level appear at the top of alternating pages of the manual to remind you of where you are in the manual. The manual name and page numbers appear at the bottom of the pages.

#### 1.1.1 Text Conventions

Key names are shown in **bold** and reflect the case of the key being described. This applies to hard keys and onscreen or soft keys.

Displayed messages appear in **bold italic** type and reflect the case of the displayed message.

#### 1.1.2 Special Messages

Examples of special messages you will see in this manual are defined below. The signal words have specific meanings to alert you to additional information or the relative level of hazard.



#### **CAUTION!**

This is a Caution symbol.

Cautions give information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.



NOTE: This is a Note symbol. Notes give additional and important information, hints and tips that help you to use your product.

#### 1.2 Safe Handling of Equipment with Batteries



CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

ATTENTION: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie, remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

### 1.3 Safety Guide

For the best performance and precise measurement

- Do NOT overload scale. This will damage the loadcell and void warranty.
- Do NOT leave a load on the scale when not in use. This will decrease scale's accuracy and shorten the loadcell life.
- Inspect shackle and hook before using. Check clips, pins and screws regularly.
- Check battery frequently. When scale display flashes, charge battery with its dedicated charger.
- Rotate the load rather than scale if needed.
- Hang scale while in storage in dry and well-ventilated room. Do NOT place the scale directly on the ground.
- Do NOT attempt to repair the scale yourself. Contact your local representative.

#### 1.4 Routine Maintenance



IMPORTANT: This equipment must be routinely checked for proper operation and calibration.

Application and usage will determine the frequency of calibration required for safe operation.

#### 1.5 Training

Do not attempt to operate or complete any procedure on a machine unless you have received the appropriate training.

To avoid the risk of RSI (Repetitive Strain Injury), place the machine on a surface which is ergonomically satisfactory to the user. Take frequent breaks during prolonged usage.

### 1.6 Sharp Objects

Do not use sharp objects such as screwdrivers or long fingernails to operate the keys.

### 1.7 FCC and EMC Declarations of Compliance

#### **United States**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe A prescrites dans le Règlement sur le brouillage radioélectrique edicté par le ministère des Communications du Canada.

#### **European Countries**

**WARNING:** This is a Class A product. In a domestic environment, this product may cause radio interference in which the user may be required to take adequate measures.

### 1.8 Declaration of Conformity



Brecknell is part of Avery Weigh-Tronix Foundry Lane, Smethwick, West Midlands, B66 2LP, England



#### Declaration of Conformity Verklaring van Overeenstemming Déclaration de Conformité

Konformitätserklärung Dichiarazione di conformità Declaración de Conformidad

| Manufacturer   | Avery Weigh-Tronix                        |
|--|---|
| Туре   | Brecknell BCS-1000,<br>BCS-3000, BCS-5000 |
| Serial No.   | 101400001 Onwards                         |
| The machinery fulfills all the r<br>Machinery Directive  |   |
| The equipment additionally<br>requirements of the follow | y corresponds to the wing EC directives:  |
| EMC Directive  | 2004/108/EC                               |
| Low Voltage Directive                                    | 2006/95/EC                                |
| The applicable harmonised st                             | andards are:                              |
| EN61000-6-1:2007<br>EN 60204-1:2006<br>+A1:2009+AC:2010  | EN 61000-6-3 : 2007                       |

Note<sup>1</sup>: A copy of the Technical File for this equipment is available from M.S. Williams at the address below.

ITW Ltd trading as Avery Weigh-Tronix Foundry Lane, Smethwick, West Midlands, B66 2LP, England

Reg. Office: Admiral House, St Leonards Road, Berkshire SL4 3BL, England Registered in England No. 00559693

| Fabrikant   | Avery Weigh-Tronix                        |
|---|---|
| Туре  | Brecknell BCS-1000,<br>BCS-3000, BCS-5000 |
| Serienummer   | Vanaf 101400001                           |
| De machine voldoet aan alle<br>van de Richtlijn inzake ma |   |
| Bovendien voldoet de apparatuu<br>volgende EU-ri          |   |
| EMC Richtlijn   | 2004/108/EG                               |
| Laagspanningsrichtlijn                                    | 2006/95/EG                                |
| Toegepaste geharmoniseerde                                | normen:                                   |
| EN61000-6-1:2007<br>EN 60204-1:2006<br>+A1:2009+AC:2010   | EN 61000-6-3 : 2007                       |
|   |   |

N.B.<sup>1</sup>: Een kopie van het technisch bestand voor deze apparatuur is verkrijgbaar van M.S. Williams op het onderstaande adres.

ITW Ltd trading as Avery Weigh-Tronix Foundry Lane, Smethwick, West Midlands B66 2LP,Engeland.

Reg. Kantoor: Admiral House, St Leonards Road, Berkshire SL4 3BL , Engeland. Geregistreerd in Engeland nr: 00559693

| Avery Weigh-Tronix   |
|--|
| Brecknell BCS-1000,<br>BCS-3000, BCS-5000                                |
| A partir de 101400001  |
| des spécifications du cahier<br>relative aux machines<br>CE <sup>1</sup> |
| ment aux exigences des<br>suivantes :                                    |
| 2004/108/CE  |
| 2006/95/CE   |
| plicables sont :   |
| EN 61000-6-3 : 2007  |
|  |

noan vurenn un exemplaire de la Fiche technique cet équipement, s'adresser à M.S. Williams à l'adresse ci-dessous.

ITW Ltd trading as Avery Weigh-Tronix
Foundry Lane, Smethus, 1868 2LP, Angleterre

Siège social : Admiral House, St Leonards Road, Berkshire SL4 3BL, Angleterre Enregistré en Angleterre sous le numéro : 00559693

| Hersteller  | Avery Weigh-Tronix                        |
|---|---|
| Тур   | Brecknell BCS-1000,<br>BCS-3000, BCS-5000 |
| Seriennummer  | Ab 101400001                              |
| Diese Maschine erfüllt die entspr<br>der Maschinenrichtlini |   |
| Darüber hinaus entspricht das C<br>der folgenden EG-        |   |
| EMV-Richtlinie  | 2004/108/EG                               |
| Niederspannungs Richtlinie                                  | 2006/95/EG                                |
| Die angewendeten harmonisie                                 | erten Normen sind:                        |
| EN61000-6-1:2007<br>EN 60204-1:2006<br>+A1:2009+AC:2010     | EN 61000-6-3 : 2007                       |
| A1  |   |

Anmerkung<sup>1</sup>: Eine Kopie der technischen Unterlagen für dieses Gerät kann von M.S. Williams bei der unten stehenden Adresse angefordert werden.

ITW Ltd trading as Avery Weigh-Tronix Foundry Lane, Smethwick, West Midlands, B66 2LP, England

Reg. Office: Admiral House, St Leonards Road, Berkshire SL4 3BL, England Registered in England No. 00559693

| Produttore  | Avery Weigh-Tronix                        |
|---|---|
| Modello   | Brecknell BCS-1000,<br>BCS-3000, BCS-5000 |
| N. di serie   | A partire da 101400001                    |
| L'apparecchio rispetta tutte le d<br>Divertiva Macchine |   |
| Inoltre, l'apparecchio è conform<br>seguenti dirett     |   |
| Normativa EMC   | 2004/108/CE                               |
| Normativa per la bassa tensione                         | 2006/95/CE                                |
| Le norme standard armonizzat<br>applicate sono:         | te e nazionali                            |
| EN61000-6-1:2007<br>EN 60204-1:2006<br>+A1:2009+AC:2010 | EN 61000-6-3 : 2007                       |

Nota<sup>1</sup>: Una copia della scheda tecnica di questo apparecchio è disponibile presso M.S. Williams, all'indirizzo seguente.

ITW Ltd trading as Avery Weigh-Tronix Foundry Lane, Smethwick, West Midlands, B66 2LP, England

Sede legale: Admiral House, St Leonards Road, Berkshire SL4 3BL, England N. iscrizione al registro delle imprese inglese: 00559693

| Fabricante   | Avery Weigh-Tronix                        |
|--|---|
| Тіро   | Brecknell BCS-1000,<br>BCS-3000, BCS-5000 |
| Número de serie  | A partir del 101400001                    |
| La máquina cumple con todas la<br>de la Directiva 2006/42/CE r |   |
| Además, el equipo satisfac<br>siguientes dire                  |   |
| Directiva CME  | 2004/108/CE                               |
| Directiva de baja<br>tensión                                   | 2006/95/CE                                |
| Las normas armonizadas en                                      | vigor son:                                |
| EN61000-6-1:2007<br>EN 60204-1:2006                            | EN 61000-6-3 : 2007                       |

expediente técnico correspondiente a este equipo la dirección que se indica.

ITW Ltd trading as Avery Weigh-Tronix Foundry Lane, Smethwick, West Midlands, B66 2LP, Inglaterra.

Reg. Office: Admiral House, St Leonards Road, Berkshire St.4 3BL, Inglaterra. Registrado en Inglaterra bajo el n.º: 00559693

Signature/Name Handtekening/Naam Signature/Nom Unterschrift/Name Firma/Nombre

K. Detert Global Head of R & D Authorised signatory for Avery Weigh-Tronix
Namang van Avery Weigh-Tronix
Signataria autorisé d'Avery Weigh-Tronix
Unterschriftsberechtigter für Avery Weigh-Tronix
Firmatario autorizato per Avery Weigh-Tronix
Firmante autorizato para Avery Weigh-Tronix

Datum Date Datum Data 4 September 2014 Fecha

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### 2 Introduction

#### 2.1 Features

This scale is a combination of sound and proven mechanical design, using the most advanced electronics and provides a superb feature set. It is versatile, reliable, accurate and easy to operate.

- Superb Quality Chinese GB/T11883-2002 national standards, and European CE directives.
- Great Safety Aluminum-casting case, high firm hook and shackle, dedicated weighing loadcell for safety installation.
- Strong Reliability Cutting-edge technology, quality integrated circuit for high performance and long time stability.
- Broad Applicability Popular and applicable in storage, textile, metal, material industry.
- Easy to Use Ultra-red remote controlling design. Easy to operate on the scale or in distance.
- Complete Function Resolution switch, unit conversion, auto power-off, battery inspection, etc.

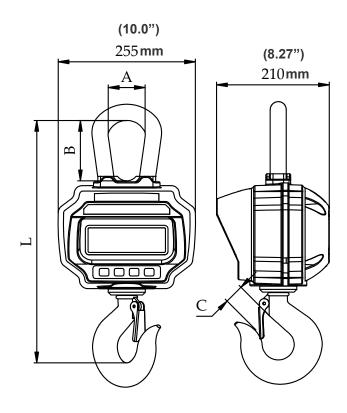
### 2.2 Specifications

| Accuracy Class     | Chinese GB/T 11883-2002 Class III                |
|--------------------|--|
| Tare Range         | 100% F.S.  |
| Zero Range         | 4% F.S.  |
| Stable Time        | ≤10sec   |
| Overload           | 100% F.S. + 9e                                   |
| Safety Load        | 150% F.S.  |
| Ultimate Load      | 400% F.S.  |
| Battery            | 6V/4.0Ah lead acid rechargeable battery          |
| Charger            | 100~250VAC 50/60Hz input<br>7.2VDC/1000mA output |
| Display            | 35mm (1.4inch) LED module                        |
| Operating Temp.    | -10°C ~ +40°C                                    |
| Operating Humidity | 20°C ≤90%  |

# 2.3 Capacity

| Model    | Maximum Capacity    | Minimum<br>Capacity | Resolution   | Division |
|----------|---------------------|---------------------|--------------|----------|
| BCS-1000 | 1,000kg (2,000 lb)  | 10kg (20 lb)        | 0.5kg (1 lb) | 2,000    |
| BCS-3000 | 3,000kg (6,000 lb)  | 20kg (40 lb)        | 1kg (2 lb)   | 3,000    |
| BCS-5000 | 5,000kg (10,000 lb) | 40kg (80 lb)        | 2kg (5 lb)   | 2,500    |

# 2.4 Dimensions and Weight



| Model    | Α            | В             | С            | L              | Net Weight        |
|----------|--------------|---------------|--------------|----------------|-------------------|
| BCS-1000 | 68mm (2.67") | 112mm (4.41") | 40mm (1.60") | 420mm (16.54") | 11.0kg (24.25 lb) |
| BCS-3000 | 68mm (2.67") | 112mm (4.41") | 40mm (1.60") | 420mm (16.54") | 11.0kg (24.25 lb) |
| BCS-5000 | 68mm (2.67") | 112mm (4.41") | 45mm (1.77") | 450mm (17.71") | 12.5kg (27.56 lb) |

# 2.5 Display and Keys

### 2.5.1 Scale Keys

| Keys                 | Key Name | Function  |
|----------------------|----------|---|
| ON/OFF               | On/Off   | Press 1s to power on/off scale<br>Return to weighing mode |
| → <b>O</b> ←<br>ZERO | Zero     | Manual Zero<br>Increase flashing digit                    |
| → <b>T</b> ←<br>TARE | Tare     | Tare in/out<br>Right scroll flashing digit                |
| HOLD                 | Hold     | Lock/unlock reading<br>Confirm                            |

### 2.5.2 Remote Keys

| Keys     | Key Name   | Function   |
|----------|------------|--|
| Û        | Zero       | Same as ZERO   |
|          | Tare       | Same as TARE   |
|          | Hold       | Same as HOLD   |
| <b>D</b> | Accumulate | Accumulate weight Decrease flashing digit                      |
| <b>(</b> | Delete     | Delete last weight Clear all weight Left scroll flashing digit |
| Opt      | F1         | View<br>Input decimal point                                    |
| O P2     | F2         | Unit switching   |
| 0        | Off        | Press 1s to power off Return to weighing mode                  |
| O        | 2nd        | 2nd function.  |

### 2.5.3 Display Annunciators

| Annunciator | Name                   | Note                            |  |  |
|-------------|------------------------|---------------------------------|--|--|
| STB.        | Stable                 | lit when weight is stable       |  |  |
| ZERO        | Zero                   | lit when weight is at zero      |  |  |
| TARE        | Tared                  | lit when scale is tared         |  |  |
| HOLD        | Hold                   | lit when scale weight is locked |  |  |
| lb          | lb lit when unit is lb |                                 |  |  |
| kg          | kg                     | lit when unit is kg             |  |  |

### 2.5.4 Displayed Messages

| Message | Description                  | Note                    |  |  |
|---------|------------------------------|-------------------------|--|--|
|         | detect weight                |                         |  |  |
| ?       | in Idle Mode                 |                         |  |  |
| Setup   | SETUP                        | User Setup Menu         |  |  |
| Bat??   | BATtery                      | battery life percentage |  |  |
| P0000   | Password                     | in Password Mode        |  |  |
| end     | END                          | save and exit           |  |  |
| off     | OFF                          | power off               |  |  |
| over    | OVERload                     | overloading             |  |  |
| 2nd     | 2ND                          | 2nd function            |  |  |
| err     | ERRor invalid operation      |                         |  |  |
| acc     | ACCumulate                   | accumulate weight       |  |  |
| del     | e/ DELete delete last weight |                         |  |  |
| Clr     | CLeaR                        | delete all weight       |  |  |

### 3 Operation

#### 3.1 Power On/Off

1. Press oworf for 1 second to power-on scale.

Scale performs initialization and power-on test, \*\*\*\*\* shows twice. Next the display shows the capacity, battery life percentage, weight detection, and then auto zero.



NOTE: For information about Auto-Zero, refer to Scale Configuration in Technical Manual.

2. Press or of for 1 second to power-off scale.

Battery life percentage *bat90* is displayed, off message |*off*| is displayed, and then the power turns off.

#### 3.2 Zero

Press To zero. The ZERO light will turn on.

If load is in motion, tared, or out of Manual-Zero Range, |*err*| is displayed.



NOTE: For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

#### 3.3 Tare In/Out

1. In gross mode, press TT or to tare in. TARE light will turn on.

If load is in motion, negative value, or out of Tare Range; |*err*| is displayed.



NOTE: Tare will reduce the apparent overload range of scale. For example, if a 5000\*2kg scale has a 1000kg container as its tare, the scale will overload at a new weight of 4018kg (5000 - 1000 + additional 9 divisions).

2. In net mode, press TARE or to tare out. TARE light will turn off.

#### 3.4 Lock / Unlock

- 1. Press or to lock screen. HOLD light will turn on.
- 2. Press or to unlock screen. HOLD light will turn off.

#### 3.5 Accumulate

Press to accumulate current weight.

**|acc|** is displayed, indicating weight is accumulated. Scale uses displayed weight, so gross or net weight is added into the same accumulator.

If load is in motion, or negative, or does not return to zero before, |err| is displayed.

#### **3.6 View**

1. Press on to enter View mode.

Display flashes accumulated weight.

- 2. Press or to view high 5-digit or low 5-digit.
- 3. Press or to exit View mode.

### 3.7 Delete Last Weight

Press to delete last accumulated weight.

| *del*| is displayed, indicating last accumulated weight is deleted. The Delete function will only delete the last weight.

If last accumulated weight has been deleted, |err| is displayed.

### 3.8 Clear All Weight

Press first and then press to clear all accumulated weight.

### 3.9 Unit Switching

Press on to switch unit in between kg, lb, and User Unit.

When unit is kg, kg LED light on. When unit is lb, lb LED light on. When unit is User Unit, kg and lb all lights are off.



NOTE: For more information about User Unit, refer to Scale Configuration in Technical Manual.

### 4 User Menu

### 4.1 Access User Setup Menu

Press of first and then press or to enter User Setup menu. **Setup** is displayed.

#### 4.2 Parameters

#### 4.2.1 Auto-Off Timing

- 1. Press or to enter Auto-Off Timing. off?? is displayed.
- 2. Press or and to change timing value.

Auto-Off Timing can be set to: 0(disabled), 5(5min), 10(10min), 15(15min), 30(30min), 60(60min). It is disabled by default.



NOTE: Auto-Off function maximizes scale's battery life. Auto-Off starts countdown timer when there's no action or load is stable. Any key pressing or motion in load restarts countdown timer.

### **4.2.2 Display Brightness**

- 1. Press or to enter Display Brightness. **br||?** is displayed.
- 2. Press (ZERO) or (and (I) to change brightness value.

Display Brightness can be set to:1(dim), 2(normal), 3(bright).



NOTE: Dim LED brightness saves battery power dramatically.

### 4.2.3 Idle Mode Timing

| 1. | Press or to enter Idle Mode Timing. <i>idl??</i> is displayed.   |
|----|--|
| 2. | Press or and to change timing value.   |
|    | Idle Mode Timing can be set to: 0(disabled), 5(5sec), 10(10sec), 15(15sec), 30(30sec), 60 (60sec). It is 30sec by default.   |
|    | To maximize battery life, scale automatically enters Idle Mode, when there's no action or the load is stable. In Idle Mode, scale works in low-power consumption status. Any key pressing or motion in load wakes up scale from Idle Mode. |
| 3. | Press HOLD or to exit User Setup.  |

# **5 Loading Procedures**

The following drawings illustrate how to load and how not to load the crane scale.

### **5.1 Correct Loading**

Use hardware that creates single point attachments. Refer to Figure 5.1.

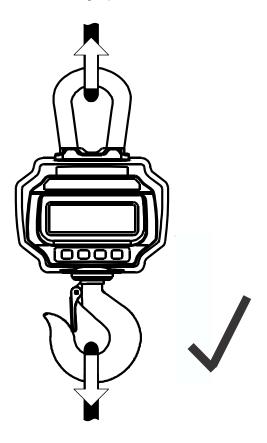


Figure 5.1 Correct Crane Scale Loading

### **5.2 Incorrect Loading**

The following drawings demonstrate incorrect crane scale loading.

• DO NOT attach oversized interface! Refer to Figure 5.2.

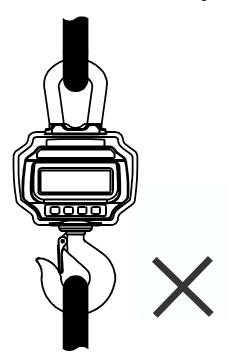


Figure 5.2 Oversized Interface Attachment

• DO NOT push/pull on loaded scale or directly on hook! Refer to Figure 5.3

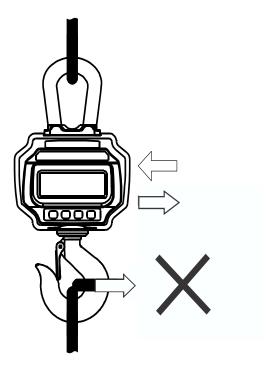


Figure 5.3 Side Stress on Hook

• DO NOT use multiple attachments! Refer to Figure 5.4.

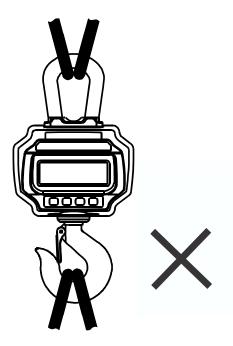


Figure 5.4 Multiple Attachments

### 6 Maintenance and Troubleshooting

### **6.1 Battery Maintenance**

To maximize battery life, please note the following battery maintenance guide.

- This scale is powered by a 6V4.0Ah rechargeable lead-acid battery.
- Battery is permanently fixed inside battery housing.
- Depending on LED brightness and idle mode setting, the battery works from 60 hours to 200 hours.
- In order to conserve battery life, enable Auto-Off and Idle Mode, dim LED brightness.
- Charging time for a completely discharged battery is approximately 12 hours.
- To obtain maximum service life, battery should be stored between -20° (-4°F) and +50° (122°F). Stored batteries should be recharged every three months.
- During charging, green LED indicates full of power, while red indicates the battery is still charging.

### **6.2 Troubleshooting**

Simple problems can be resolved from the table below solution. If problems still exist, please contact your local representative.

| Symptom                              | Possible Cause                 | Suggested Solution                  |  |
|--------------------------------------|--------------------------------|-------------------------------------|--|
| not power-on after On/Off is pressed | discharged / defective battery | check battery and charge            |  |
|                                      | defective On/Off key           | press harder and keep pressing 2s   |  |
|                                      | defective power cable          | open front panel, check power cable |  |
|                                      | defective mainboard            | contact representative              |  |
| display flashes                      | discharged battery             | charge battery                      |  |
| no action taken after key pressed    | scale is disturbed             | re-plug power cable                 |  |
|                                      | defective key                  | contact representative              |  |
| weight reading not stable            | load in motion                 | keep load stable                    |  |
|                                      | weak Anti-Motion               | change Anti-Motion level            |  |
|                                      | damped loadcell or mainboard   | dry loadcell or mainboard           |  |
|                                      | defective mainboard            | contact representative              |  |
| weight reading not zero when no load | discharged battery             | charge battery                      |  |
|                                      | load-cell stressed too long    | hang scale in storage               |  |
|                                      | discharged battery             | charge battery                      |  |

| Symptom                       | Possible Cause                        | Suggested Solution               |  |
|-------------------------------|---------------------------------------|----------------------------------|--|
| large error in weight reading | scale not zeroed before applying load | manual Zero scale before loading |  |
|                               | wrong unit                            | switch to correct unit           |  |
|                               | scale requires calibration            | calibrate scale                  |  |
|                               | defective loadcell or mainboard       | contact representative           |  |
| battery can not be recharged  | defective charge board                | contact representative           |  |
|                               | defective battery                     | contact representative           |  |
| short remote control distance | discharged / defective remote battery | replace remote control batteries |  |

# Brecknell

#### **Brecknell USA**

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