



The Ultimate in Fall Protection

OSHA CSA Z259.1

This manual should be used as part of an employee training program as required by OSHA and CSA. Please read this User Manual carefully before using the associated products.

USER INSTRUCTION MANUAL

DBI-SALA® Body Belts for Personal Restraint

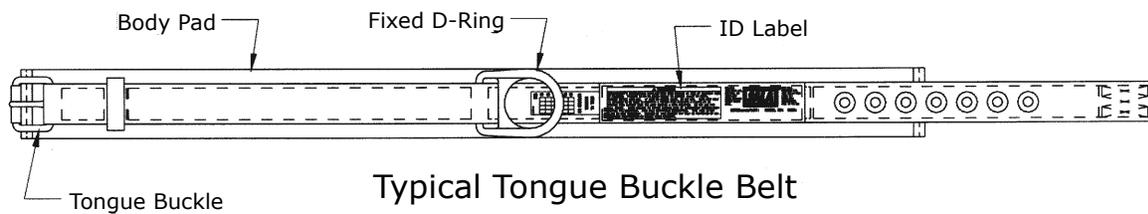
(See back pages for model numbers)

WARNING: This product is part of a personal restraint system. The user must follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user of this equipment. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations or misuse of this equipment, or failure to follow these instructions, may result in serious injury or death.

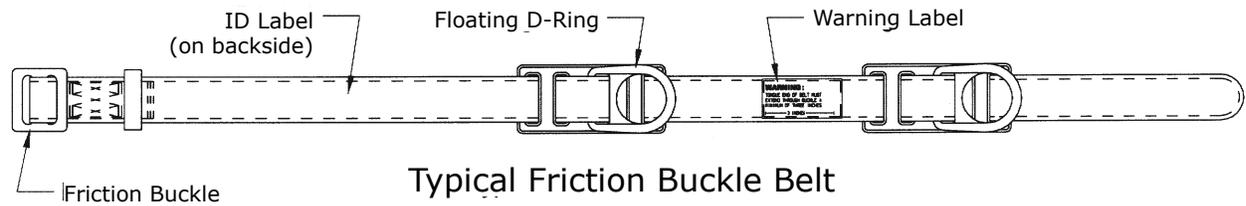
IMPORTANT: If you have questions on the use, care, application, or suitability of this equipment contact DBI-SALA.

IMPORTANT: Record the product identification information from the ID label on the energy absorbing lanyard in the Inspection

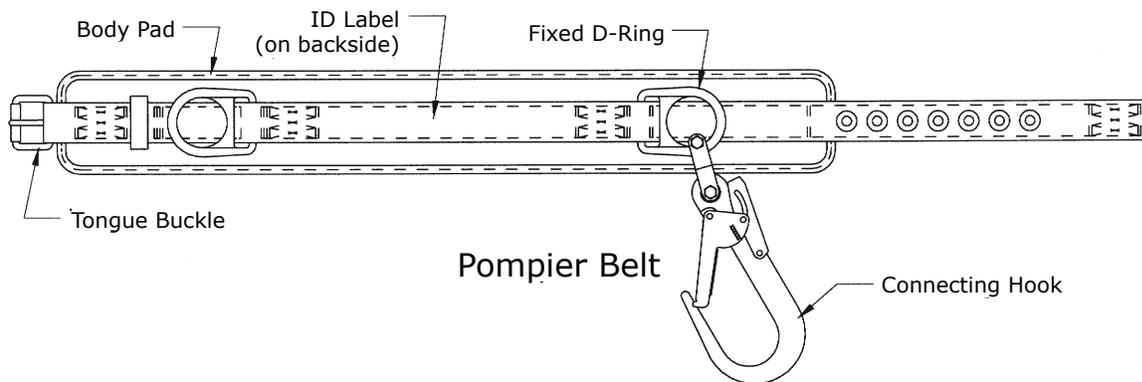
Figure 1 – Body Belts



Typical Tongue Buckle Belt



Typical Friction Buckle Belt



Pompier Belt

DESCRIPTION

DBI-SALA body belts are available in two styles: Tongue buckle belt and friction buckle belt. Some body belts are provided with positioning D-rings or body pads. Pompier belts include a self locking connecting hook. See Figure 1.

1.0 APPLICATIONS

1.1 PURPOSE: DBI-SALA body belts are intended to be used as part of a personal restraint system. Applications include: inspection work, construction and demolition, maintenance, oil production, and other activities where restraint is required.

A. RESTRAINT: The body belt is used to prevent the user from reaching a hazard, such as leading edge roof work, with no vertical free fall possible. See Figure 2.

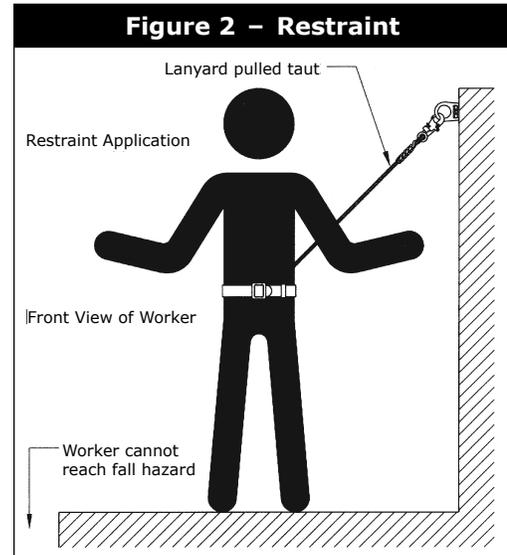
1.2 LIMITATIONS: Consider the following application limitations before using this equipment:

A. CAPACITY: Body belts are designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310 lbs.

B. FREE FALL: Body belts must not be used in situations where a free fall could occur. Use a full body harness in free fall situations.

C. ENVIRONMENTAL HAZARDS: Use of this equipment in areas where environmental hazards exist may require additional precautions be taken to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to: high heat, caustic chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, or sharp edges.

D. TRAINING: This equipment is intended to be used by persons trained in its correct application and use.



1.3 REFER TO APPLICABLE LOCAL, STATE, AND FEDERAL (OSHA) STANDARDS, GOVERNING THIS EQUIPMENT FOR MORE INFORMATION.

2.0 SYSTEM REQUIREMENTS

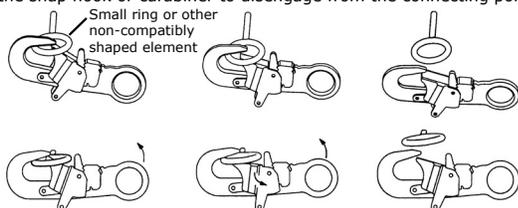
2.1 COMPATIBILITY OF COMPONENTS: DBI-SALA equipment is designed for use with DBI-SALA approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.

2.2 COMPATIBILITY OF CONNECTORS: Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact DBI-SALA if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-Rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. See Figure 3. Connectors must be compatible in size, shape, and strength. Self locking snap hooks and carabiners are required by ANSI Z359.1 and OSHA.

Figure 3 – Unintentional Disengagement

If the connecting element to which a snap hook (shown) or carabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or carabiner. This force may cause the gate (of either a self-locking or a non-locking snap hook) to open, allowing the snap hook or carabiner to disengage from the connecting point.

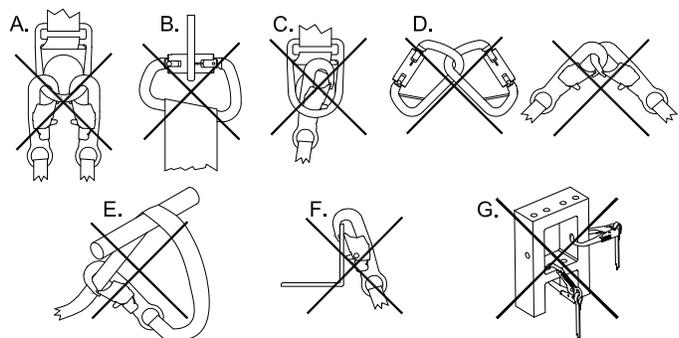


Force is applied to the Snap Hook.

The Gate presses against the Connecting Ring.

The Gate opens allowing the Snap Hook to slip off.

Figure 4 – Inappropriate Connections



2.3 MAKING CONNECTIONS: Only use self-locking snap hooks and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

DBI-SALA connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 4 for inappropriate connections. DBI-SALA snap hooks and carabiners should not be connected:

- A. To a D-ring to which another connector is attached.
- B. In a manner that would result in a load on the gate.

NOTE: Large throat opening snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.

- C. In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor and without visual confirmation seems to be fully engaged to the anchor point.
- D. To each other.
- E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allow such a connection).
- F. To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- G. In a manner that does not allow the connector to align properly under load.

2.4 ANCHORAGE STRENGTH: Restraint system anchorages must be capable of supporting a minimum load of 3,000 lbs. (13.3 kN) per person attached to the anchorage.

WARNING: Restraint anchorages may only be used where there is no vertical free fall possible. Restraint anchorages do not have sufficient strength for work positioning or fall arrest. Do not connect work positioning or fall arrest systems to restraint anchorages.

3.0 OPERATION AND USE

WARNING: Do not alter or intentionally misuse this equipment. Consult with DBI-SALA if using this equipment with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment.

WARNING: Do not use this system if you are unable to tolerate the impact of a fall arrest. Age and fitness can seriously affect your ability to withstand a fall. Pregnant women and minors must not use this equipment.

3.1 BEFORE EACH USE of this equipment, carefully inspect it according to steps listed in section 5.0.

3.2 PLAN your personal restraint system and how it will be used before starting your work. Consider all factors that will affect your safety before, during, and after a fall. Consider the following points when planning your system:

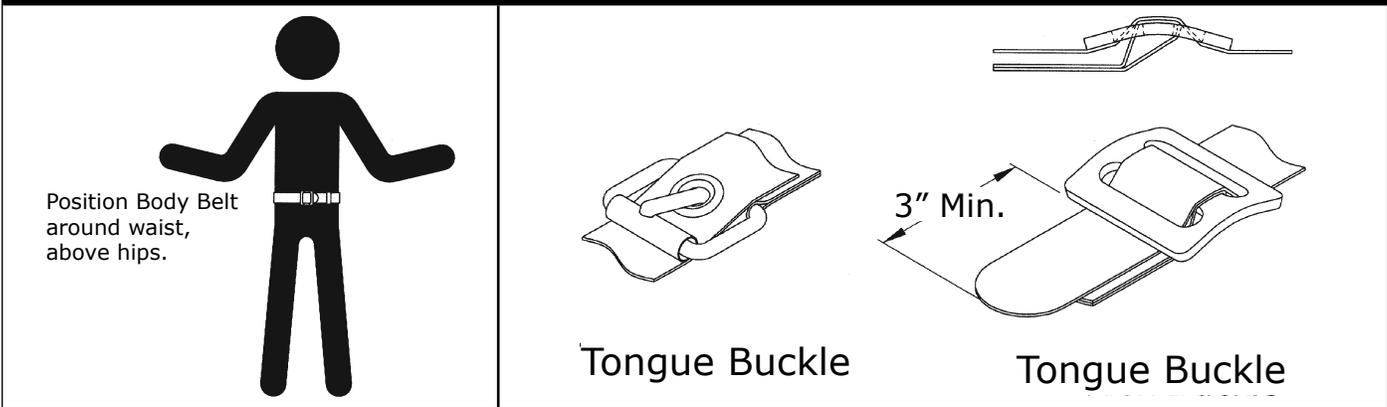
- A. **ANCHORAGE:** Select a rigid anchorage point that is capable of supporting the required loads specified in section 2.4. Select an anchorage location that will prevent the user from reaching a fall hazard.
- B. **SHARP EDGES:** Avoid working where any part of the system will be in contact with, or abrade against unprotected sharp edges. Do not loop lanyard (if used) around small diameter structural members. If this is unavoidable, cover the sharp edge with a heavy pad.
- C. **RESCUE:** If a fall occurs, the employer must have a rescue plan and the ability to implement it.
- D. **AFTER A FALL:** Body belts that are subjected to impact forces must be removed from service and destroyed.

WARNING: Read and follow manufacturer's instructions for associated equipment used with your restraint system.

IMPORTANT: For custom versions of this product, see supplemental instructions, if included, for additional instructions.

Figure 5 – Donning Body Belt

Figure 6 – Proper Buckling



3.3 DONNING THE BODY BELT: Inspect body belt according to section 5.0. Don and fit the body belt as follows:

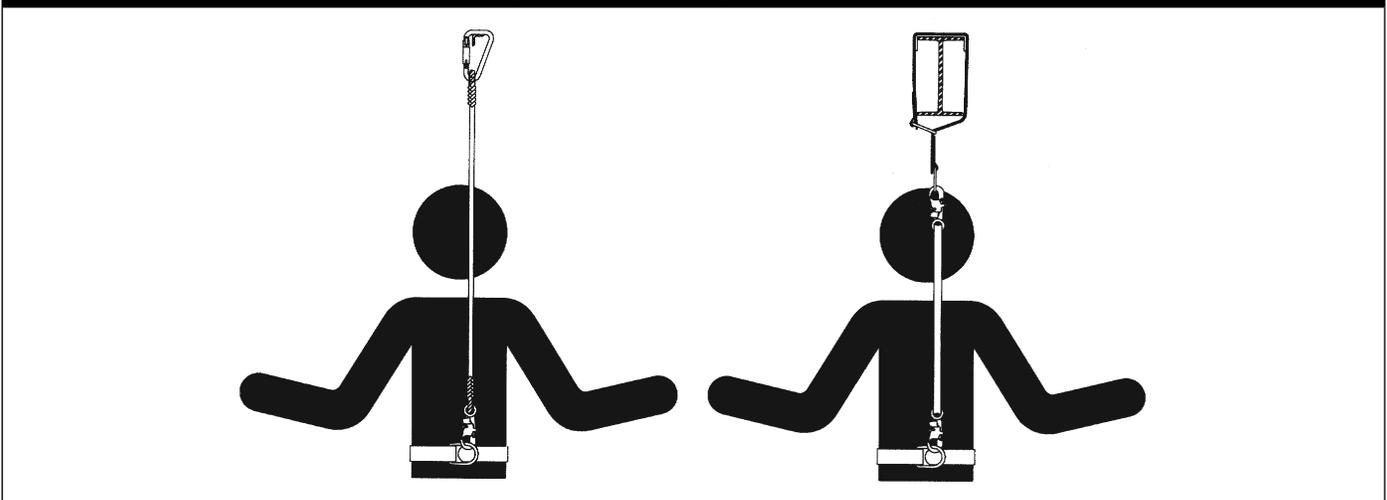
1. Wrap body belt around waist, above your hips. See Figure 5.
2. Lace belt tongue through buckle as shown in Figure 6. Ensure buckle is properly secured. Body belt should be comfortably snug.
 - **Tongue Buckle:** Tongue of buckle must be inserted through a grommet. Do not punch or cut new holes into belt web.
 - **Friction Buckle:** Pass web tongue through buckle. Web tongue must extend beyond buckle a minimum of three inches.
3. After donning the body belt, connect to other system components according to manufacturer's instructions and section 3.4.

3.4 MAKING CONNECTIONS: When using a hook to connect to an anchorage, or when coupling components of the system together, ensure roll-out cannot occur. Roll-out occurs when interference between the hook and mating connector causes the hook gate to unintentionally open and release. Self locking snap hooks and carabiners should be used to reduce the possibility of roll-out. Do not use hooks or connectors that will not completely close over the attachment object. Do not tie a knot in the lanyard or lifeline. Do not hook a lanyard or lifeline back into itself (choker style). Do not connect snap hooks or carabiners to each other. Follow manufacturer's instructions for each component of the system. See Figure 7.

CONNECTING TO THE BODY SUPPORT: Attach the connecting subsystem (lanyard) to the back or side D-rings on the body belt. Position the D-ring at or behind your hips, as close to the center of your back when possible. On models with floating D-rings, slide the D-rings to the appropriate position for your requirements. Reposition or adjust D-ring positions as required. Ensure connections are compatible in size, shape, and strength. See subsystem manufacturer's instructions for more information on making connections.

3.5 AFTER USE of this equipment, clean and store according to Section 6.0.

Figure 7 – Making Connections



4.0 TRAINING

- 4.1 TRAINING:** The user and the user's employer, must be trained in the correct use and care of this equipment. Both parties must be aware of the operating characteristics, application limits, and consequences of improper use of this equipment.

IMPORTANT: Training must be conducted without exposing the trainee to a fall hazard. Training should be repeated on a periodic basis.

5.0 INSPECTION

5.1 FREQUENCY:

- **Before Each Use** inspect according to steps listed in sections 5.2 and 5.3.
- **This Equipment** must be inspected according to steps listed in this section by a competent person, other than the user, at least annually. Record the results of each inspection in the inspection and maintenance log in section 9.0.

WARNING: If this equipment has been subjected to impact forces, remove from service and destroy.

IMPORTANT: Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of inspections.

5.2 INSPECTION STEPS:

1. Inspect body belt hardware (D-rings, buckles, loop keepers, grommets, body pad, etc.). Hardware must not be damaged, broken, or distorted. Hardware must not have any sharp edges, burrs, cracks, worn parts, or corrosion. Ensure buckles work properly. Do not use body belts that have missing grommets or loop keepers.
 2. Inspect body belt webbing and stitching. Webbing must be free of frayed, cut, or broken fibers. Inspect webbing for tears, abrasions, mold, burns, and discoloration. Webbing must be free of knots, excessive soiling, heavy paint build-up, and rust staining. Inspect webbing for chemical or heat damage, indicated by brown, discolored, or brittle areas on the web surface. Inspect webbing for ultraviolet damage, indicated by discoloration and splinters or slivers on the web surface. Inspect stitching for broken, pulled, or cut stitches. Broken stitches may be an indication the body belt has been impact loaded, and must be removed from service. All of the above factors are known to reduce webbing strength. Damaged or questionable body belts must be removed from service.
 3. Inspect labels. All labels must be present and fully legible. See section 8.0. Replace missing or illegible labels.
 4. Inspect each system component according to manufacturer's instructions.
 5. Record the inspection results in the Inspection and Maintenance Log at the back of this manual.
- 5.3** If inspection reveals an unsafe or defective condition, remove body belt from service and destroy, or contact DBI-SALA for repair or replacement.

NOTE: Only DBI-SALA or parties authorized in writing may make repairs to this equipment.

6.0 MAINTENANCE, SERVICING, STORAGE

- 6.1** Clean the body belt with water and a mild detergent solution. Wipe off hardware with a clean, dry cloth and hang to air dry. Do not force dry with heat. An excessive buildup of dirt, paint, etc., may prevent the body belt from working properly, and in severe cases, weaken the webbing. If you have questions about the condition of your body belt, contact DBI-SALA.
- 6.2** Additional maintenance and servicing procedures must be completed by DBI-SALA, or parties authorized in writing. Do not disassemble this equipment. See section 5.1 for inspection frequency.
- 6.3** Store the body belt in a cool, dry, clean environment, out of direct sunlight. Avoid areas where chemical vapors exist. Thoroughly inspect this equipment after extended storage.

LIMITED LIFETIME WARRANTY

Warranty to End User: D B Industries, LLC dba CAPITAL SAFETY USA ("CAPITAL SAFETY") warrants to the original end user ("End User") that its products are free from defects in materials and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date the product is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of any defective product within its lifetime (as CAPITAL SAFETY in its sole discretion determines and deems appropriate). No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain, or use the product in accordance with the manufacturer's instructions.

CAPITAL SAFETY'S WARRANTY APPLIES ONLY TO THE END USER. THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO OUR PRODUCTS AND IS IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, EXPRESSED OR IMPLIED. CAPITAL SAFETY EXPRESSLY EXCLUDES AND DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SHALL NOT BE LIABLE FOR INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, REVENUES, OR PRODUCTIVITY, OR FOR BODILY INJURY OR DEATH OR LOSS OR DAMAGE TO PROPERTY, UNDER ANY THEORY OF LIABILITY, INCLUDING WITHOUT LIMITATION, CONTRACT, WARRANTY, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE) OR OTHER LEGAL OR EQUITABLE THEORY.



Global Leader in Fall Protection

USA

3833 SALA Way
Red Wing, MN 55066-5005
Toll Free: 800.328.6146
Phone: 651.388.8282
Fax: 651.388.5065
solutions@capitalsafety.com

Brazil

Rua Anne Frank, 2621
Boqueirão Curitiba PR
81650-020
Brazil
Phone: 0800-942-2300
brasil@capitalsafety.com

Mexico

Calle Norte 35, 895-E
Col. Industrial Vallejo
C.P. 02300 Azcapotzalco
Mexico D.F.
Phone: (55) 57194820
mexico@capitalsafety.com

Colombia

Compañía Latinoamericana de Seguridad S.A.S.
Carrera 106 #15-25 Interior 105 Manzana 15
Zona Franca - Bogotá, Colombia
Phone: 57 1 6014777
servicioalcliente@capitalsafety.com

Canada

260 Export Boulevard
Mississauga, ON L5S 1Y9
Phone: 905.795.9333
Toll-Free: 800.387.7484
Fax: 888.387.7484
info.ca@capitalsafety.com

EMEA (Europe, Middle East, Africa)

EMEA Headquarters:
5a Merse Road
North Moons Moat
Redditch, Worcestershire
B98 9HL UK
Phone: + 44 (0)1527 548 000
Fax: + 44 (0)1527 591 000
csgne@capitalsafety.com

France:

Le Broc Center
Z.I. 1re Avenue - BP15
06511 Carros Le Broc Cedex
France
Phone: + 33 04 97 10 00 10
Fax: + 33 04 93 08 79 70
information@capitalsafety.com

Australia & New Zealand

95 Derby Street
Silverwater
Sydney NSW 2128
Australia
Phone: +(61) 2 8753 7600
Toll-Free : 1800 245 002 (AUS)
Toll-Free : 0800 212 505 (NZ)
Fax: +(61) 2 8753 7603
sales@capitalsafety.com.au

Asia

Singapore:
69, Ubi Road 1, #05-20
Oxley Bizhub
Singapore 408731
Phone: +65 - 65587758
Fax: +65 - 65587058
inquiry@capitalsafety.com

Shanghai:

Rm 1406, China Venturetech Plaza
819 Nan Jing Xi Rd,
Shanghai 200041, P R China
Phone: +86 21 62539050
Fax: +86 21 62539060
inquiry@capitalsafety.cn

www.capitalsafety.com

