

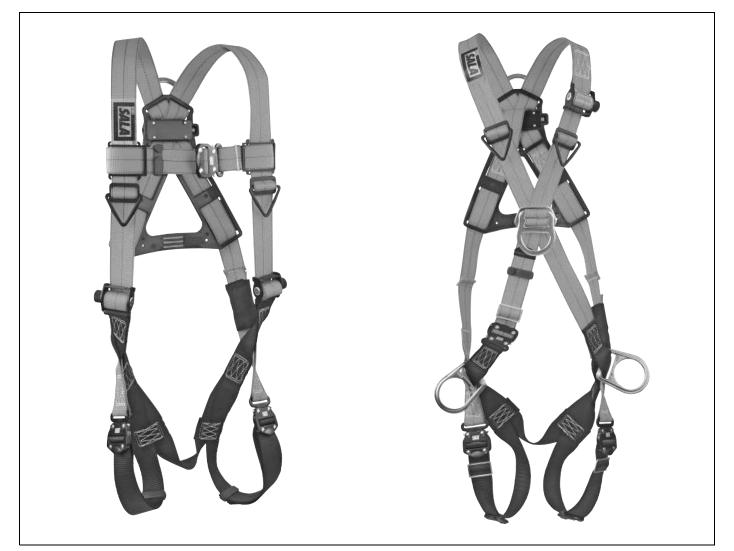
Instructions for the following series products: DELTA[™] Full Body Harnesses

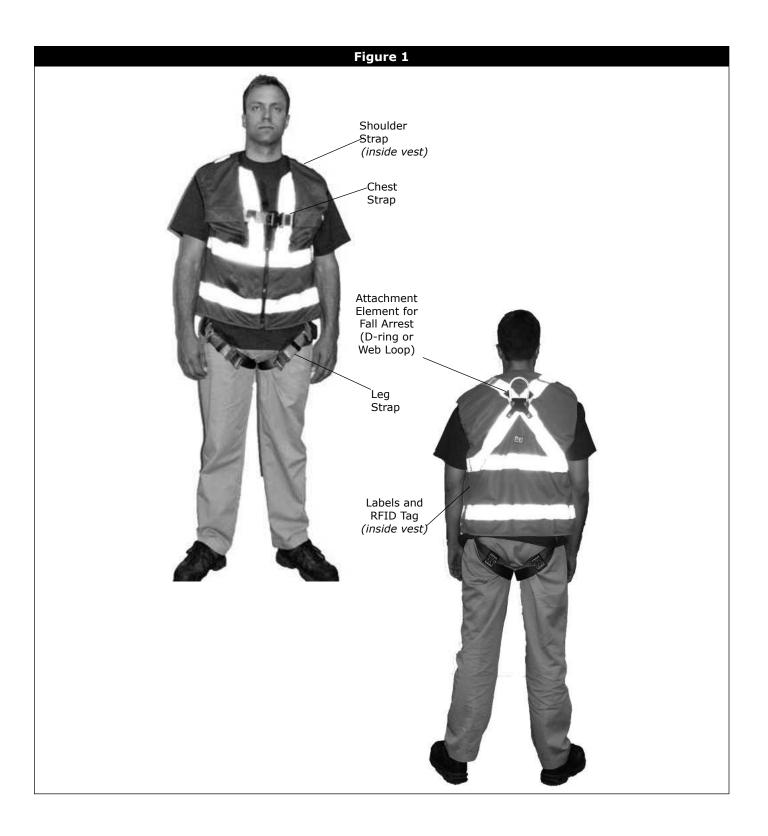
(See back pages for specific model numbers.)

USER INSTRUCTION MANUAL DELTA™ FULL BODY HARNESS

This manual is intended to meet the Manufacturer's Instructions as required by ANSIZ359.1 and CSA 259.10-06 and should be used as part of an employee training program as required by OSHA







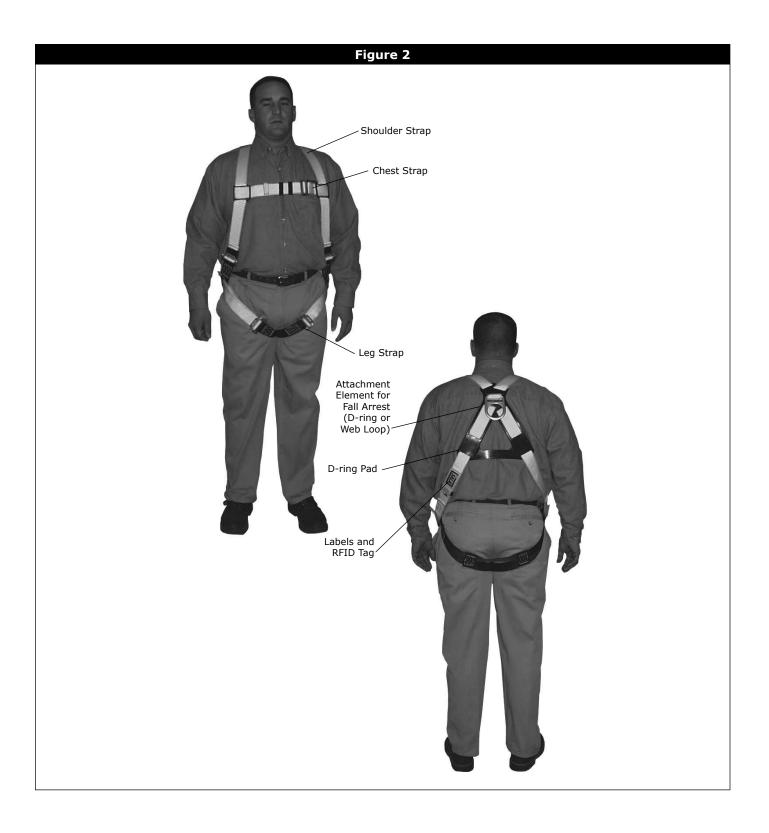
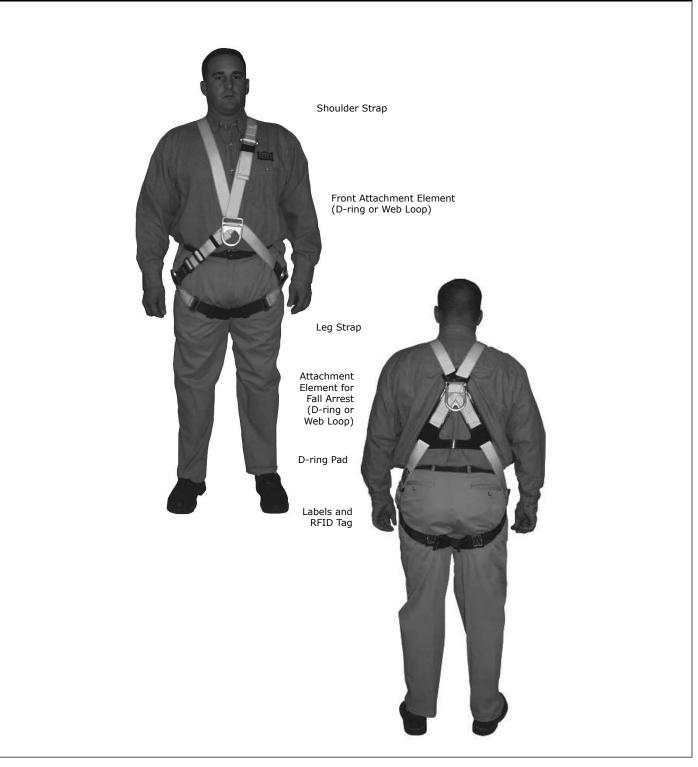
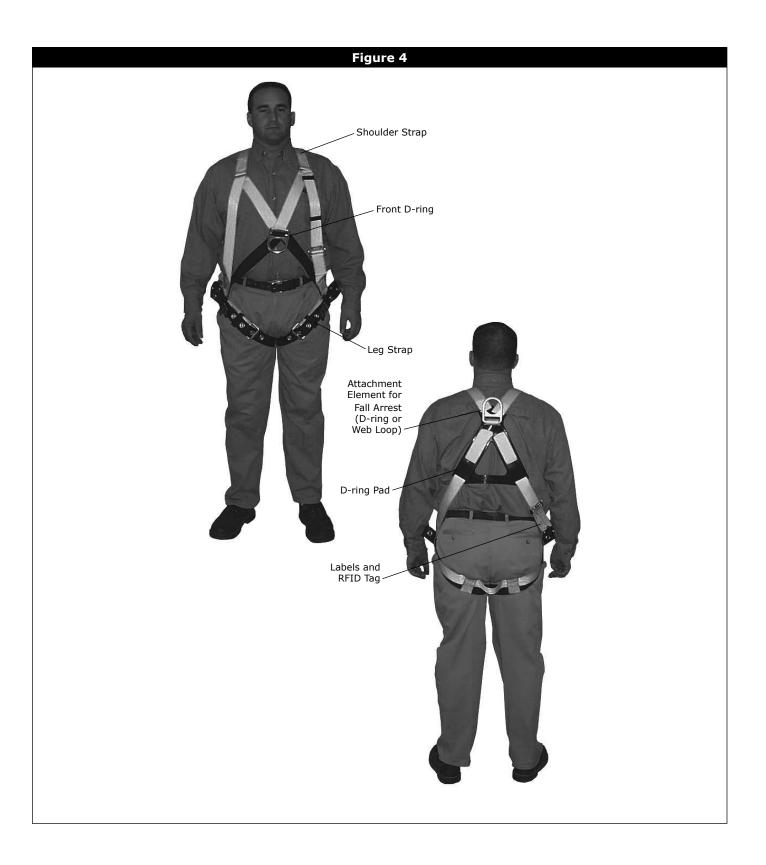


Figure 3





WARNING: This product is part of a personal fall arrest, restraint, work positioning, personnel riding, climbing, or rescue 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 product or failure to follow instructions may result in serious injury or death.

IMPORTANT: If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

IMPORTANT: Before using this equipment, record the product identification information from the ID label in the inspection and maintenance log of this manual.

DESCRIPTIONS

Delta Vest[™] Full Body Harness: See Figure 1.

Vest Style Full Body Harness: See Figure 2.

Cross-Over Style Full Body Harness: See Figure 3.

Step-In Style Full Body Harness: See Figure 4.

OPTIONS:

DBI-SALA Full Body Harnesses are available with options and accessories. Following is a partial list of commonly used options and accessories (some options may not be available on all harnesses):

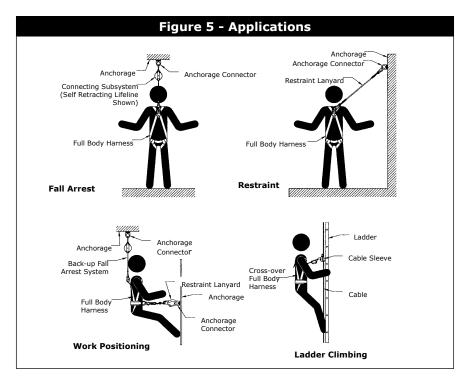
- Shoulder D-rings
- Side D-rings
- Hip pad with side D-rings
- Quick Connect buckles
- Tongue buckle body belt
- Loops on harness for body belt
- Kevlar[®] webbing
- High visibility webbing
- Non-sparking/Non conductive PVC coated hardware
- Shoulder pads
- Tool belt support straps
- Seat sling
- Lanyard attached directly to D-ring or attachment element
- Snap fastener on shoulder strap for retaining lanyard
- Delta Vest[™]
- Tool holders

1.0 APPLICATIONS

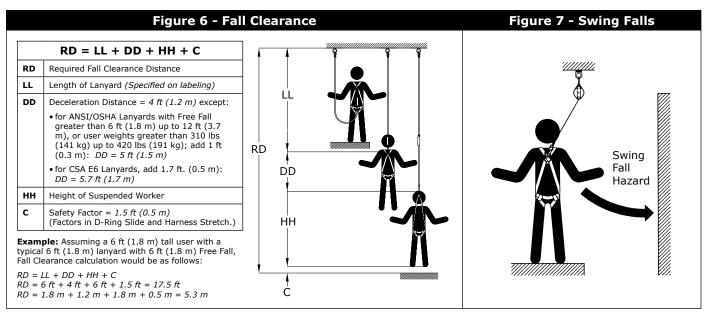
1.1 PURPOSE: DBI-SALA full body harnesses are to be used as components in personal fall arrest, restraint, work positioning, or rescue systems. See Figures 1, 2, 3, and 4 for harness styles.

Harnesses included in this manual are full body harnesses and meet ANSI Z359.1, OSHA, and CSA Z259.10-06 requirements. See Figure 5 for application illustrations.

- Full body harnesses with Kevlar web should be used when working with tools, materials, or environments of high temperature (foundries, chemical manufacturing, steel fabrication, emergency rescue services, fire services, welders, oil industry, nuclear industry, explosives).
- Harnesses with PVC coated hardware should be used when working in explosive or electrically conductive environments, or where surfaces must be protected from the hardware.
- Harnesses with high visibility webbing should be used when increased visibility of the user is required.
- A. PERSONAL FALL ARREST: The full body harness is used as a component of a personal fall arrest system. Personal fall arrest systems typically include a full body harness and a connecting subsystem (energy absorbing lanyard). Maximum arresting force must not exceed 1,800 lbs (8 kN).For fall protection applications connect the fall arrest subsystem (example: lanyard, SRL, energy absorber, etc.) to the D-ring or attachment element on your back, between your shoulder blades.



- **B. WORK POSITIONING:** The full body harness is used as a component of a work positioning system to support the user at a work position. Work positioning systems typically include a full body harness, positioning lanyard, and a back-up personal fall arrest system. For work positioning applications, connect the work positioning subsystem (example: lanyard, Y-lanyard, etc.) to the lower (hip level) side or belt mounted work positioning attachment anchorage elements (D-rings). Never use these connection points for fall arrest.
- **C. LADDER CLIMBING:** The full body harness is used as a component of a climbing system to prevent the user from falling when climbing a ladder or other climbing structure. Climbing systems typically include a full body harness, vertical cable or rail attached to the structure, and climbing sleeve.For ladder climbing applications, harnesses equipped with a frontal D-ring in the sternal location may be used for fall arrest on fixed ladder climbing systems. These are defined in Z259.2.1 in Canada and ANSI A14.3 in the United States.
- **D. RESCUE:** The full body harness is used as a component of a rescue system. Rescue systems are configured depending on the type of rescue. For limited access (confined space) applications, harnesses equipped with D-rings on the shoulders may be used for entry and egress into confined spaces where worker profile is an issue.
- **E. CONTROLLED DESCENT:** For controlled descent applications, harnesses equipped with a single sternal level D-ring, one or two frontal mounted D-rings, or a pair of connectors originating below the waist (such as a seat sling) may be used for connection to a descender or evacuation system (reference in Z259.10-06 in Canada).
- **F. RESTRAINT:** The full body harness is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness and a lanyard or restraint line.
- **1.2 LIMITATIONS:** Consider the following application limitations before using this equipment:
 - **CAPACITY:** These full body harnesses are designed for use by persons with a combined weight (clothing, tools, etc.) for ANSI Z359.1--310 lbs (141 kg), CSA Z259.10-06--352 lbs (160 kg). Make sure all of the components in your system are rated to a capacity appropriate to your application
 - **FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 6 feet (1.8 M) (ANSI Z359.1). Restraint systems must be rigged so that no vertical free fall is possible. Work positioning systems must be rigged so that free fall is limited to 2 feet (.6 m) or less. Personnel riding systems must be rigged so that no vertical free fall is possible. Climbing systems must be rigged so that no vertical free fall is possible. So that free fall is limited to 18 in. (.46 cm) or less. Rescue systems must be rigged so that no vertical free fall is possible. See subsystem manufacturer's instructions for more information.



- **FALL CLEARANCE:** See Figure 6. There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or other obstruction. The clearance required is dependent on the following factors:
 - Elevation of Anchorage
- Free fall distance
- Connecting subsystem length
- Worker height
- Deceleration distance
 Movement of harness attachment element

See subsystem manufacturer's instructions for more information

- **SWING FALLS:** See Figure 7. Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as close to the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a self- retracting lifeline or other variable length connecting subsystem is used.
- **EXTENDED SUSPENSION:** A full body harness is not intended for use in extended suspension applications. If the user is going to be suspended for an extended length of time it is recommended that some form of seat support be used. DBI-SALA recommends a seat board, suspension workseat, seat sling, or a boatswain chair. Contact DBI-SALA for more information on these items.
- **ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.
- HARNESSES FOR HIGH TEMPERATURE ENVIRONMENTS: Harnesses with Kevlar webbing are designed for use in high temperature environments, with limitations: Kevlar webbing begins to char at 800° to 900° Fahrenheit. Kevlar webbing can withstand limited contact exposure to temperatures up to 1,000° F. Polyester webbing loses strength at 300° to 400° F. PVC coating on hardware has a melting point of approximately 350° F.

IMPORTANT: When working with tools, materials, or in high temperature environments, ensure that associated fall protection equipment can withstand high temperatures, or provide protection for those items.

IMPORTANT: Although PVC coated, cadmium, or zinc plated hardware exhibit excellent corrosion resistance in chemical, acidic, alkaline, and atmospheric conditions, frequent inspections may be required. Consult with Capital Safety if you question the use of this equipment in hazardous environments.

- **TRAINING:** This equipment must be installed and used by persons trained in its correct application and use. See section 4.0.
- **1.3 APPLICABLE STANDARDS:** Refer to national standards, including ANSI Z359 (.0, .1, .2, .3, and .4) family of standards on fall protection, ANSI A10.32, CSA Z259.10-06, and applicable local, state and federal (OSHA) requirements governing occupational safety for more information about work positioning systems.

IMPORTANT: Harnesses with Kevlar webbing do not meet ANSI Z359.1. Kevlar does not have equivalent abrasion resistance of polyamides. Kevlar harnesses meet all other requirements of this standard.

2.0 SYSTEM REQUIREMENTS

- **2.1 COMPATIBILITY OF COMPONENTS:** Capital Safety equipment is designed for use with Capital Safety 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 Capital Safety 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 8. Connectors must be compatible in size, shape, and strength. Self- locking snap hooks and carabiners are required by ANSI Z359.1 and OSHA.

2.3 MAKING CONNECTIONS: Use only self-locking snap hooks and carabiners with this equipment. Use only 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.

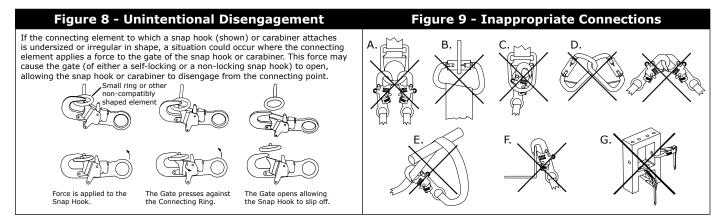
Capital Safety connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 9 for inappropriate connections. Capital Safety snap hooks and carabiners should not be connected:

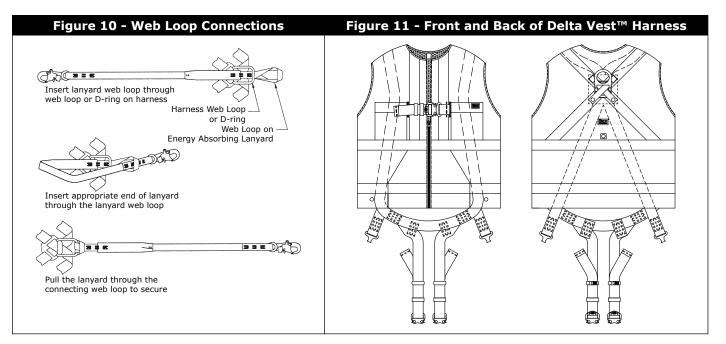
To a D-ring to which another connector is attached.

- 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 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, unless the snap hook complies with ANSI 2359.1-2007 or ANSI 2359.12 and is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify that it is appropriate for your application.

- 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 allows 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 while under load.
- 2.4 CONNECTING SUBSYSTEMS: Connecting subsystems (self- retracting lifeline, lanyard, rope grab and lifeline, cable sleeve) must be suitable for your application. See section 1.1. See subsystem manufacturer's instructions for more information. Some harness models have web loop connection points. Do not use snap hooks to connect to web loops. Use a self-locking carabiner to connect to a web loop. Ensure the carabiner cannot cross-gate load (load against the gate rather than along the backbone of the carabiner). Some lanyards are designed to choke onto a web loop to provide a compatible connection (see Figure 10). Lanyards may be sewn directly to the web loop forming a permanent connection. Do not make multiple connections onto one web loop, unless choking two lanyards onto a properly sized web loop.





- **2.5 ANCHORAGE STRENGTH:** The anchorage strength required is dependent on the application type. The following are the requirements of ANSI 359.1 for these application types:
 - **A. FALL ARREST:** Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
 - 1. 5,000 lbs. (22.2 kN) for non-certified anchorages, or

2. Two times the maximum arresting force for certified anchorages. When more than one fall arrest system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

B. RESTRAINT: Anchorages selected for restraint and travel restraint systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
 1,000 lbs. (4.5 kN) for non-certified anchorages, or

2. Two times the foreseeable force for certified anchorages. When more than one restraint and travel restraint system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

C. WORKING POSITIONING: Anchorages selected for work positioning systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
 1. 3,000 lbs. (13.3 kN) for non-certified anchorages, or

2. Two times the foreseeable force for certified anchorages. When more than one work positioning system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

D. RESCUE: Anchorages selected for rescue systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:

1. 3,000 lbs. (13.3 kN) for non-certified anchorages, or

2. Five times the foreseeable force for certified anchorages. When more than one rescue system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

E. CLIMBING: The structure to which a climbing system is attached must sustain the loads required by that particular system. See instructions for climbing system for requirements.

3.0 DONNING AND USE

WARNING: Do not alter or intentionally misuse this equipment. Consult DBI-SALA when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery, electrical and chemical hazards, and sharp edges.

WARNING: Consult your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use any DBI-SALA full body harness.

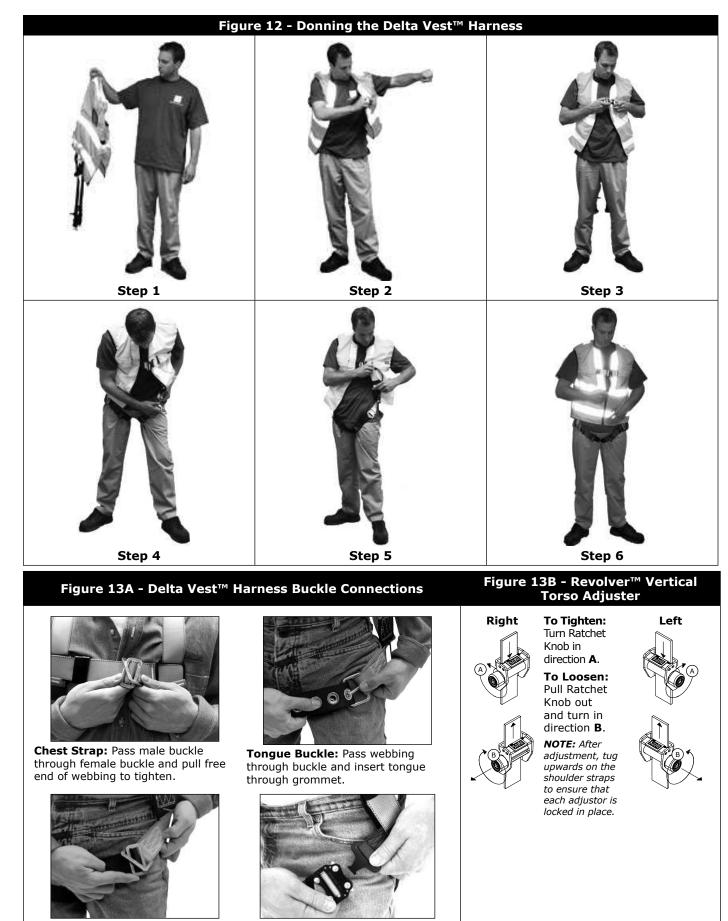
- **3.1 BEFORE EACH USE** of this equipment inspect it according to section 5.0 of this manual.
- **3.2 PLAN** your system before use. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:
 - **ANCHORAGE:** Select an anchorage that meets the requirements specified in sections 1.2 and 2.5.
 - **SHARP EDGES:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
 - **AFTER A FALL:** Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
 - **RESCUE:** The employer must have a rescue plan when using this equipment. The employer must have the ability to perform a rescue quickly and safely.

3.3 DONNING AND FITTING THE HARNESS:

Delta Vest™ Harness:

See Figure 11 for front and back views of the Delta Vest[™] harness. Don the Delta Vest[™] full body harness by following these steps (see Figures 12 and 13).

- **Step 1.** Lift harness by the back D-ring and untangle straps. Allow leg straps to hang free.
- **Step 2.** Don the Vest Harness as you would a jacket. Do not zip the vest at this time.
- **Step 3.** Connect chest strap by passing male buckle through female buckle. Pass excess webbing through loop keepers.
- **Step 4.** Reach between legs and grasp the leg strap on your left side. Bring the strap up between your legs and connect to buckle attached to yellow strap (orange on high visibility models, black on flame resistant models) as shown in Figures 12 and 13. Connect right leg strap.
- **Step 5.** Reach inside the vest and adjust shoulder straps to a snug fit. Left and right shoulder straps should be adjusted to the same length. Readjust leg straps, chest strap, and shoulder straps as necessary to a snug fit.
- Step 6. Zip the vest.



Pass Buckle: Pass male buckle through female buckle and pull free end of webbing to tighten.

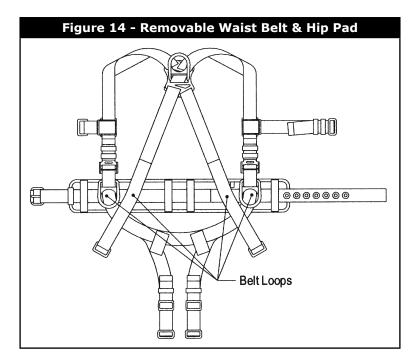
Quick Connect Buckle: Insert the tab of the buckle into the receptor of the quick connect buckle until a click is heard.

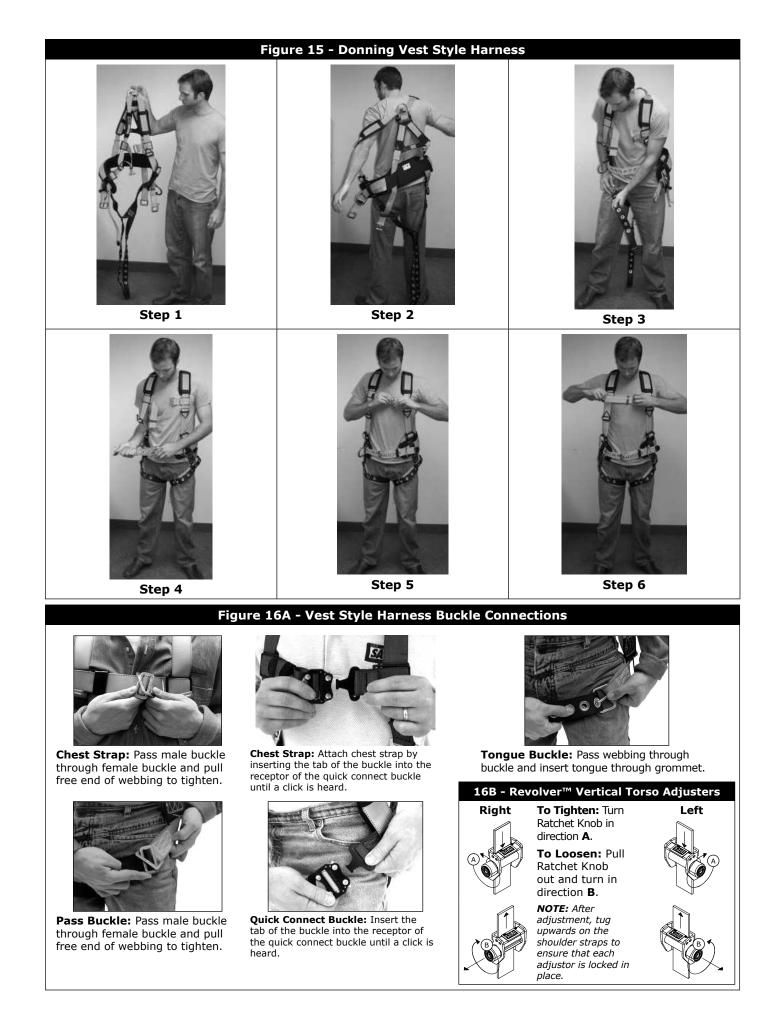
Vest Style Harness:

If your harness incorporates loops for a removable waist belt, the belt should be installed through the four loops in the harness as shown in Figure 14. The hip pad, if used, is secured to the belt by passing the belt through the hip pad loops. Don the vest style full body harness by following these steps (see Figures 14-16B):

NOTE: Vest Style harnesses contain different harness buckle connections. See Figure 16A for the style that applies to your harness.

- **Step 1.** Locate back D-ring held in position by the D-ring pad; lift up harness and hold by this D-ring. Ensure the straps are not twisted.
- **Step 2.** Grasp the shoulder straps and slip harness onto one arm. D-ring will be located on your back side. Ensure straps are not tangled and hang freely. Slip free arm into harness and position shoulder straps on top of shoulder. Chest strap buckle will be positioned on front side when worn properly. Pass excess strap through the loop keepers.
- **Step 3.** Reach between your legs and grasp the leg strap on your left side. Bring the strap up between your legs and connect it as shown in Figure 16A. Pull the free end of the strap away from the buckle to make a snug fit on each leg strap. To loosen the leg strap, grasp the buckle and pull away from your leg to allow the strap to pull through the buckle. A plastic end keeper on the end of the strap will stop it from pulling completely out of the buckle. To release the buckle. Repeat this procedure for the right side.
- **Step 4.** Adjust the waist belt by inserting the buckle tongue into the grommet on the left side as shown in Figure 16A.
- **Step 5.** Attach the chest strap by connecting the buckle. See Figure 16A. Chest strap should be six inches down from the top of shoulders. Pass excess strap through the loop keepers. The strap may be tightened to a snug fit by pulling the free strap end to the left (away from the buckle). To loosen the chest strap, grasp the buckle and pull away from the body to allow the strap to pull through the buckle. A plastic end keeper on the end of the strap will stop it from pulling completely out of the buckle.
- Step 7. Adjust shoulder straps to a snug fit (Figure 16B). Left and right sides of shoulder straps should be adjusted to the same length and the chest strap should be centered on your lower chest, six inches down from shoulder. The front D-ring on vest style harness is moved up or down by adjusting the shoulder straps and leg straps. Center the back D-ring between shoulder blades. Adjust leg straps to a snug fit. At least three inches of webbing must extend past buckle on leg straps. Adjust the waist belt (if present). Center retrieval D-rings (if present) on top of each shoulder.



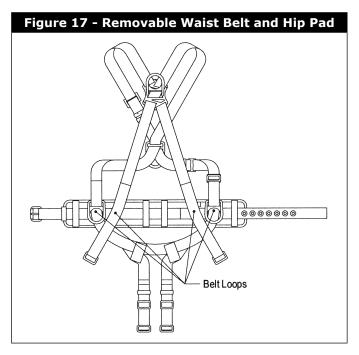


CROSS-OVER STYLE HARNESS:

If your harness incorporates loops for a removable waist belt, the belt should be installed through the four loops in the harness as shown in Figure 17. The hip pad, if used, is secured to the belt by passing the belt through the hip pad loops. Don the cross-over style full body harness by following these steps (see Figures 17-19B):

NOTE: Cross-Over Style harnesses contain different harness buckle connections. See Figure 19A for the style that applies to your harness.

- **Step 1.** Locate back D-ring held in position by the D-ring pad; lift up harness and hold by this D-ring. Ensure the straps are not twisted.
- **Step 2.** Grasp shoulder straps between back and front D-ring and slip harness over your head from the left side. Position shoulder straps on top of shoulder. Ensure straps are not tangled and hang freely. The D-ring will be positioned on your back when worn properly.
- **Step 3.** Grasp the buckle below the front D-ring and connect (Figure 19A). Ensure straps are not tangled or crossed.
- **Step 4.** Reach between legs and grasp blue leg strap on your left side. Bring strap up between legs and connect to buckle. Connect right leg strap (Figure 19A).
- **Step 5.** Adjust shoulder straps to a snug fit (Figure 19B). Left and right sides of shoulder straps should be adjusted to the same length and the front D-ring should be centered on your lower chest. The back D-ring should be centered between your shoulder blades. Adjust leg straps to a snug fit. Adjust the waist belt (if present). Center retrieval D-rings (if present) on top of each shoulder.



- **3.4 USE OF FALL ARREST D-RING OR ATTACHMENT ELEMENT:** For fall protection applications connect to the D-ring or attachment element on your back, between your shoulder blades. Side D-rings, if present, are for positioning or restraint applications only. Shoulder retrieval D-rings are for rescue or retrieval applications only. Front D-ring is for ladder climbing or positioning. D-rings on seat sling are for suspension or positioning applications only.
- **3.5 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. See subsystem manufacturer's instructions for more information on making connections.
- **3.6 CONNECTING SYSTEM COMPONENTS:** After fitting the full body harness the user may then connect to other system components. Follow the guidelines in section 3.4 on selecting the correct attachment element.

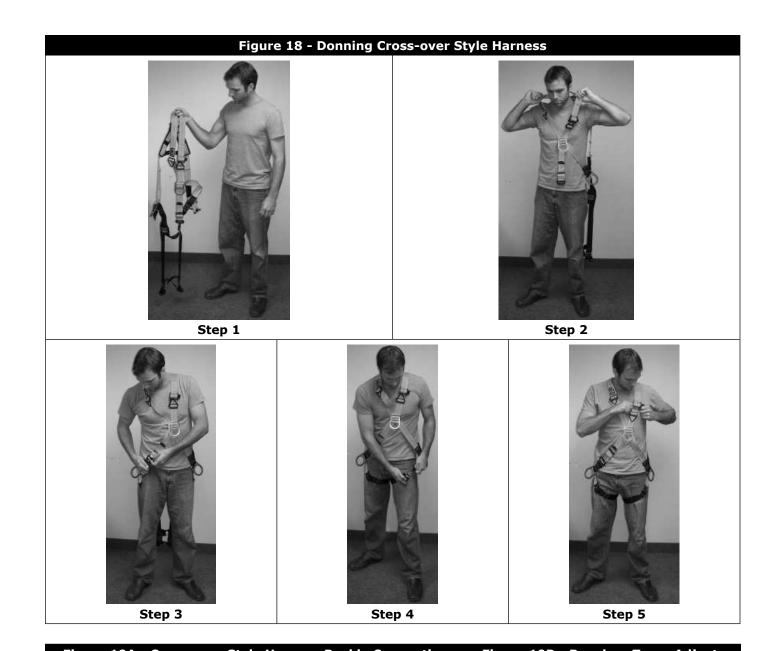


Figure 19A - Cross-over Style Harness Buckle Connections Figure 19B - Revolver Torso Adjuster To Tighten: Turn Ratchet Knob Left in direction **A**. To Loosen: Pull Ratchet Knob out and turn in direction **B**. **NOTE:** After adjustment, tug upwards on the shoulder straps to ensure that each adjustor is locked in place. Tongue Buckle: Pass webbing Pass Buckle: Pass male buckle through buckle and insert tongue through female buckle and pull free end of webbing to tighten. through grommet.

Quick Connect Buckle: Insert the tab of the buckle into the receptor of the quick connect buckle until a click is heard.

4.0 TRAINING

4.1 It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

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

5.0 INSPECTION

- **5.1** The i-Safe[™] RFID tag on this harness can be used in conjunction with the i-Safe handheld reading device and the web based portal to simplify inspection and inventory control and provide records for your fall protection equipment See Figure 22.
- 5.2 FREQUENCY: Before each use inspect the full body harness according to sections 5.3 and 5.4. The harness must also be inspected by a competent person, other than the user, at least annually. Record the results of each Competent Person inspection in the inspection and maintenance log in section 9.0, or use the i-Safe™ inspection web portal to maintain your inspection records. If you are a first-time user, contact a Customer Service representative (See Back Cover) or if you have already registered, access isafe.capitalsafety.com. Follow instructions provided with your i-Safe handheld reader or on the web portal to transfer your data to your web log.

IMPORTANT: If the full body harness has been subjected to fall arrest or impact forces it must be immediately removed from service and destroyed.

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

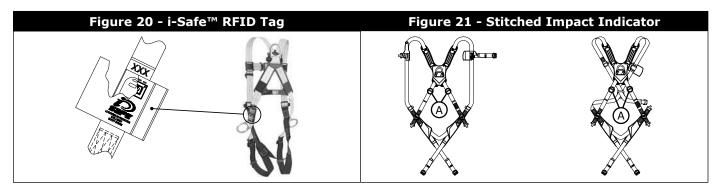
5.3 INSPECTION STEPS:

- Step 1. Inspect harness hardware (buckles, D-rings, back pad, loop keepers); These items must not be damaged, broken, distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion. PVC coated hardware must be free of cuts, rips, tears, holes, etc. in the coating to ensure non-conductivity. Ensure buckles work smoothly. If present, inspect the quick connect buckles by ensuring that the release tabs work freely and that a click is heard when the buckle engages. Inspect parachute buckle spring.
- **Step 2.** Inspect webbing; material must be free of frayed, cut, or broken fibers. Check for tears, abrasions, mold, burns, or discoloration. Inspect stitching; Check for pulled or cut stitches. Broken stitches may be an indication that the harness has been impact loaded and must be removed from service.

IMPORTANT: On Delta Vest[™] harnesses, inspection should include the webbing inside the vest.

- Step 3. Inspect labels; All labels should be present and fully legible. See section 8.0.
- **Step 4.** Inspect each system component or subsystem according to manufacturer's instructions.
- **Step 5.** Inspect the Stitched Impact Indicator (Figure 21): The Stitched Impact Indicator (A) is a section of webbing that is lapped back on itself and secured with a specific stitch pattern holding the lap. The stitch pattern is designed to release when the harness arrests a fall or has been subjected to an equivalent force If the impact indicator has been activated the harness must be removed from service and destroyed.

NOTE: Some harnesses are equipped with a "stand up D-ring" in the dorsal (back) D-ring location. If the spring in the D-ring is damaged or lost and the D-ring no longer stands up, this does not compromise the harness integrity. As long as the D-ring passes inspection criteria in Step 1, it is safe to use.



5.4 **DEFECTS:** If inspection reveals a defective condition, remove unit from service immediately and destroy.

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

5.5 PRODUCT LIFE: The functional life of DBI-SALA harnesses is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

6.0 MAINTENANCE, SERVICING, STORAGE

6.1 WASHING INSTRUCTIONS:

Full body harness: Clean full body harness with water and a mild soap solution. Do not use bleach or bleach solutions. 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 full body harness from working properly, and in severe cases degrade the webbing to a point where it weakens and should be removed from service. More information on cleaning is available from DBI-SALA. If you have questions concerning the condition of your harness, or have any doubt about putting it into service contact DBI-SALA.

Fire Resistant Padding:

- Remove pads from harness for laundering. Place the harness in the supplied laundry bag. The bag is
 designed to prevent entanglement of harness and to protect the washing machine from damage. Use of
 the laundry bag to wash the pads is optional.
- Launder flame resistant pads separately from harness or other non-flame resistant garments. Lint from other garments may affect flame resistance.
- Use a bleach-free detergent when washing both the harness and the pads. Do not use soap; soap may leave a residue which could affect flame resistance.
- Do not use chlorine bleach. Bleach may weaken fabric and reduce product life.
- Oily or greasy stains may be pre-treated and washed in hot water 140°F max (60°C max).
- Use delicate, permanent press, or cotton sturdy wash cycle with cold or warm water. Hot water can be
 used on heavily soiled items as long as it does not exceed 140°F (60°C). Use extra rinse cycle to be sure
 all residual wash chemicals are removed.
- Air dry or tumble dry using permanent press cycle and low heat. Drying temp should not exceed 200°F (93°C). These fabrics dry quickly, for lowest shrinkage, do not over dry.
- **6.2** Additional maintenance and servicing procedures must be completed by a factory authorized service center. Authorization must be in writing. Do not attempt to disassemble the unit.
- **6.3** Store full body harnesses in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect the full body harness after extended storage.

7.0 SPECIFICATIONS

7.1 PERFORMANCE

Maximum Free Fall Distance: No greater than 6 feet (1.8 m), per federal law and ANSI Z359.1.

Maximum Arresting Force: 1,800 lbs. (8 kN)

Capacity: ANSI Z359.1--310 lbs (141 kg), CSA Z259.10-06--352 lbs (160 kg)

Approximate Weight:

- Harness only: 3 lbs. (1.4 kg)
- Harness with Side D-rings: Add 1/2 lb. (.23 kg)
- Harness with Back Pad or Belt: Add 1 lb. (.45 kg)

Cross-over Style Harness Patent numbers: United States: 5,203,829, Canada: 2,080,643

All harnesses, excluding Kevlar harnesses, meet ANSI Z359.1 and OSHA requirements.

7.1 MATERIALS

Standards: All harnesses marked with ASTM F887-2004 meet all testing requirements of the standard. Webbing Materials: 6,000 lbs (27kN) Tensile Strength Polyester; 7,000 lbs (31 kN) Tensile Strength Nylon; 7,000 lbs. (31 kN) Tensile Strength Nomex[™] covered Kevlar[™].

Pad and Label Cover Materials:

- All outer fabric is Nomex and Kevlar blend fabric
- Fire resistant hook and loop fasteners

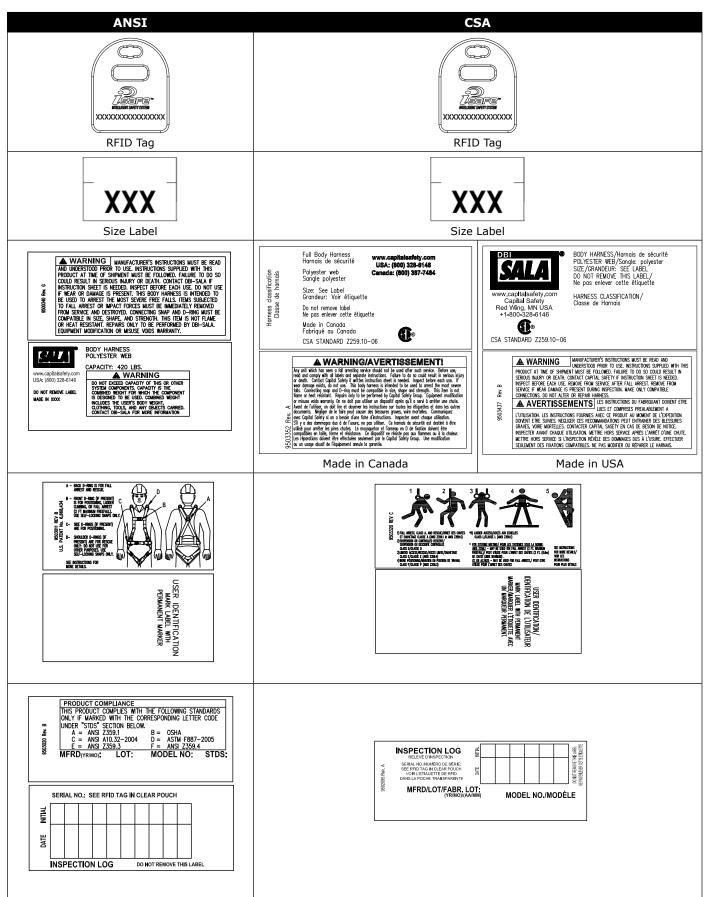
Optional Accessories:

- Hip Pad with side D-ring
- Nomex covered Kevlar webbing

- Arc-rated hip, leg, and back pads
- Polyurethane coated, arc-rated dorsal web loop
- Non-sparking/ Non-conductive PVC coated hardware
 - 18

8.0 LABELING

8.1 The following labels must be present and completely legible:



This instruction applies to the following models:

AA7059A	1101253	1101631	1101806	1102000	1102541	1103270ALT1	1103884
AA7060A	1101253H	1101632	1101807	1102000H	1102542	1103270	1103885
1100092	1101254	1101633	1101808	1102001	1102543	1103321	1103886
1100181	1101254H	1101634	1101809	1102002	1102543H	1103350	1103888
1100195	1101255	1101635	1101810	1102003	1102546	1103351	1104125
1100230	1101255H	1101636	1101812	1102004	1102548	1103352	1104126
1100231	1101256	1101637	1101813	1102005	1102549	1103353	1104120
1100232	1101250	1101638	1101813	1102003	1102556	1103354	1104625
1100233	1101258	1101639	1101815	1102009	1102557	1103355	1104627
1100245	1101259	1101640	1101816	1102010	1102558	1103356	1104628
1100246	1101260	1101641	1101817	1102010ALT1	1102559	1103357	1104629
1100247	1101261	1101642	1101818	1102010	1102560	1103358	1104630
1100299	1101262	1101643	1101819	1102025	1102561	1103359	1104632
1100406	1101266	1101644	1101820	1102026	1102562	1103360	1104633
1100482	1101267	1101645	1101821	1102027	1102563	1103361	1104635
1100520	1101268	1101646	1101822	1102028	1102564	1103375	1104636
1100521	1101269	1101647	1101823	1102029	1102565	1103376	1104650
1100522	1101270	1101649	1101824	1102030	1102566	1103377	1104725
1100540	1101271	1101650	1101826	1102031	1102875	1103378	1104729
1100541	1101272	1101651	1101827	1102032	1102875C	1103379	1104730
1100542	1101273	1101653	1101828	1102033	1102876	1103383	1104731
1100543	1101274	1101654	1101829	1102034	1102877	1103384	1104732
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1100550	1101340	1101655	1101830	1102035	1102879		1104734
						1103386	
1100676	1101420	1101655H	1101832	1102037	1102880	1103393	1104735
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1100768	1101450	1101665	1101843	1102090	1102927	1103802	1104748
1100769	1101451	1101666	1101844	1102132	1102928	1103803	1104749
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1100779		1101670	1101855				
	1101457			1102201 1102205	1102952	1103806	1104779
1100780	1101458	1101672	1101857		1102953	1103807	1104780
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1100842	1101462	1101778	1101861	1102270	1102957	1103811	1104800
1100925	1101463	1101779	1101862	1102271	1102962	1103812	1104801
1100926	1101464	1101780	1101863	1102286	1102963	1103813	1104803
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1100928	1101466	1101782	1101866	1102351	1102965	1103825	1104805
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1101120	1101475						1104855
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1101215	1101513	1101794	1101893	1102529H	1103258	1103855	1104859
1101216	1101514	1101795	1101909	1102530	1103261C	1103856	1104860
1101217	1101515	1101796	1101910	1102531	1103262	1103860	1104861
1101218	1101516	1101797	1101911	1102532	1103262C	1103861	1104863
1101219	1101611	1101798	1101912	1102533	1103263	1103875	1104866
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1101252	1101629	1101804	1101980	1102539	1103267	1103880	1104875
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1104890	1105483	1106001	1106118	1106407	1107002	1107454	1107813
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1104893	1105488	1106004	1106125	1106410	1107026	1107455C	1107816
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1105377	1105832	1106076	1106365	1106751	1107418	1107726	1108108
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1105400	1105838	1106082H	1106375	1106802	1107425C	1107781	1108129
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1105405	1105850	1106100	1106377	1106901	1107427	1107783	1108131
1105406	1105851	1106101	1106378	1106902	1107427C	1107784	1108132
1105407	1105852	1106102	1106379	1106903	1107428	1107801	1108133
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1105409	1105854	1106104	1106381	1106905	1107429	1107803	1108175
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1109108	1109557	1110587	1110786	1111002	1111612	3103337	

	INSPECTION AND MAINTENANCE LOG
SERIAL NUMBER:	
MODEL NUMBER:	

DATE PURCHASED:

DATE OF FIRST USE:

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
Approved By:			
Approved By:		_	
Approved By:			
Approved By:		_	
Approved By:		_	
Approved By:			
Approved By:		_	
Approved By:			
Approved By:		_	
Approved By:		_	
Approved By:			
Approved By:		_	
Approved By:		_	
Approved By:			
Approved By:		_	
Approved By:			
Approved By:			

LIMITED LIFETIME WARRANTY

Warranty to End User: D B Industries, Inc., 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.



A Capital Safety Company

CSG USA & Latin America

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CSG Australia & New Zealand

Silverwater Sydney NSW 2128 AUSTRALIA Phone: +(61) 2 8753 7600 Toll-Free : 1 800 245 002 (AUS) Toll-Free : 0800 212 505 (NZ) Fax: +(61) 2 87853 7603 sales@capitalsafety.com.au

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Singapore: 16S, Enterprise Road Singapore 627666 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

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