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

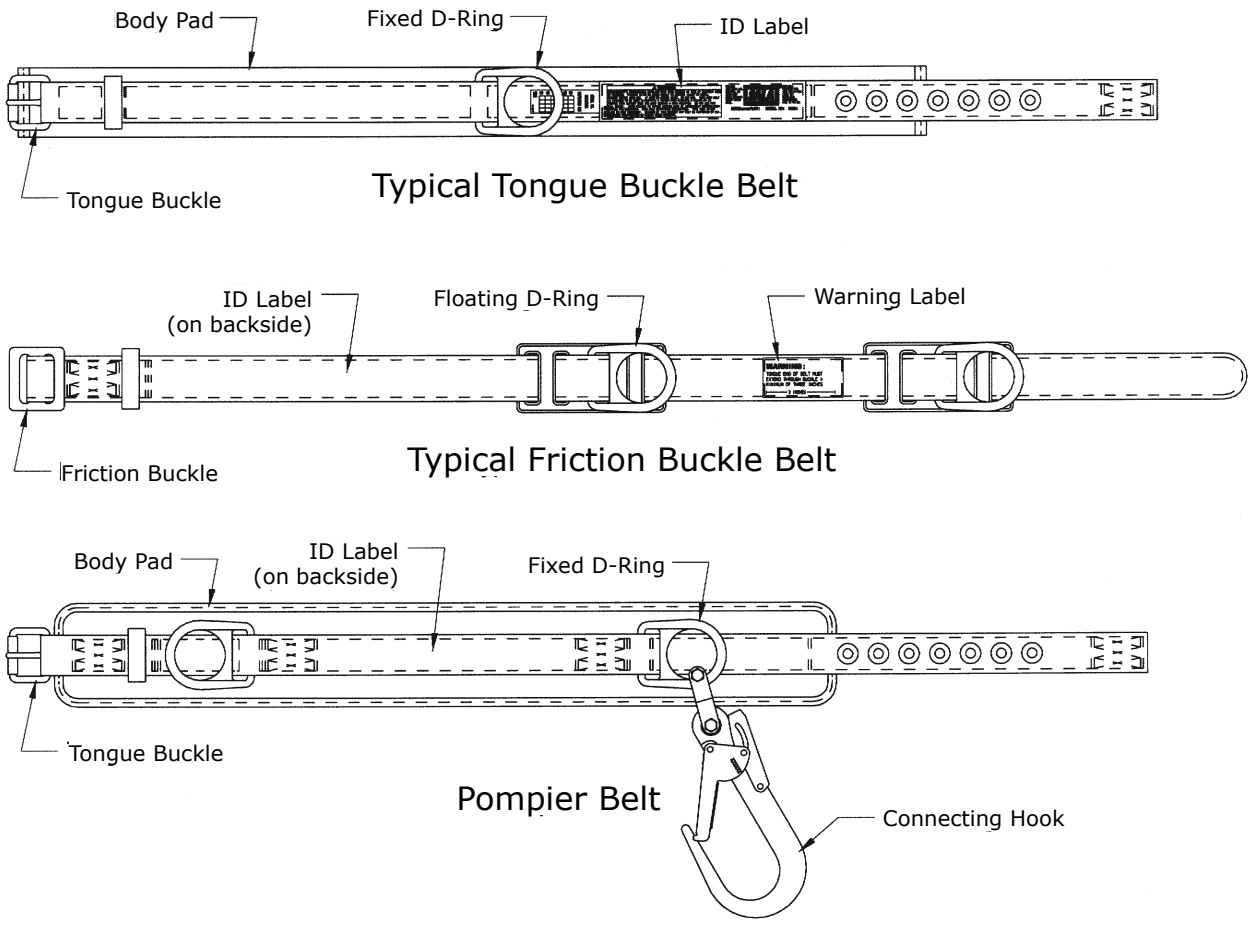
(See back pages for model numbers)

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



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:

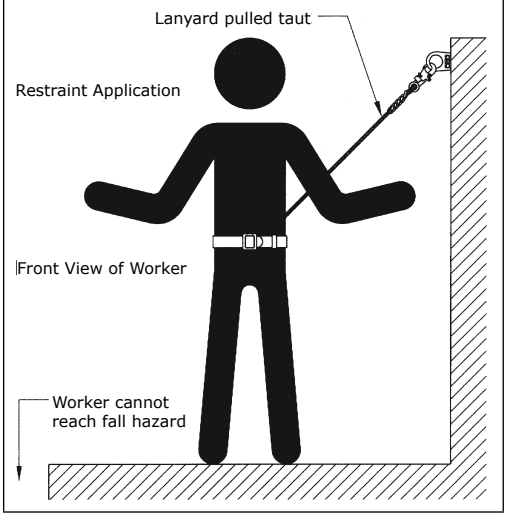
A. CAPACITY: Body belts are designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310 lbs.

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.

Figure 2 – Restraint



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.

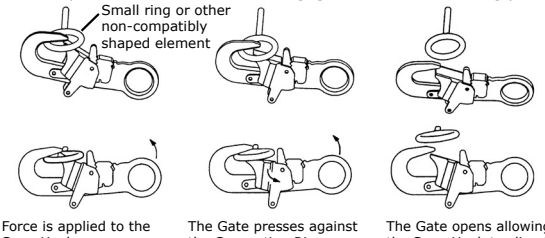
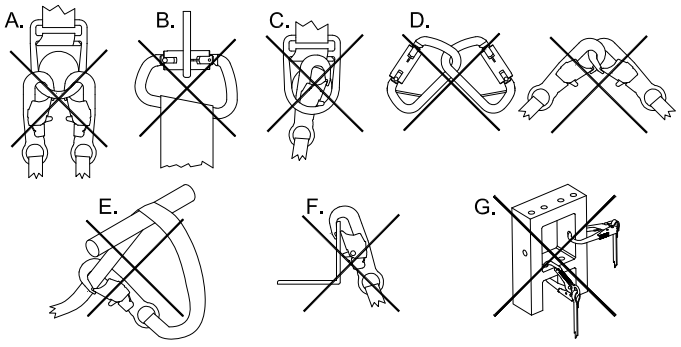


Figure 4 – Inappropriate Connections



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

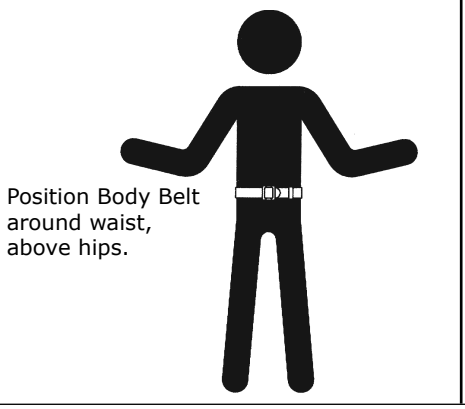
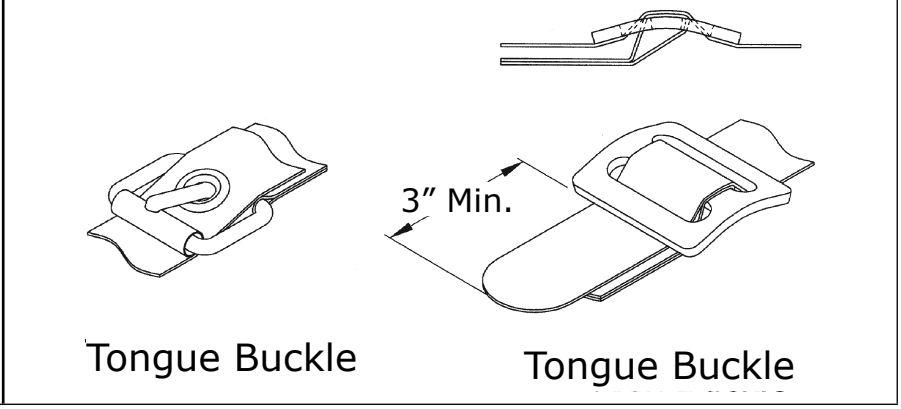


Figure 6 – Proper Buckling



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

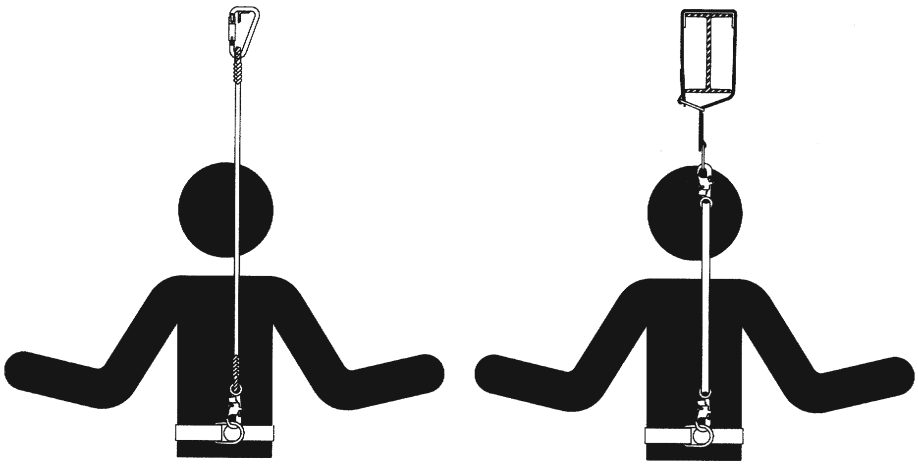
1. Wrap body belt around waist, above your hips. See Figure 5.
2. Lace belt tongue through buckle as shown in Figure 6. Ensure buckle is properly secured. Body belt should be comfortably snug.
   - **Tongue Buckle:** Tongue of buckle must be inserted through a grommet. Do not punch or cut new holes into 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.

7.0 SPECIFICATIONS

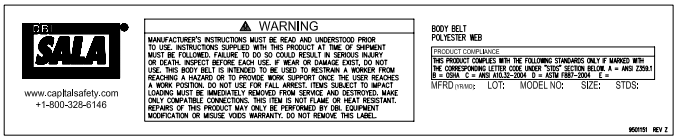
7.1 All models meet OSHA requirements.

Model	Webbing	Hardware	Stitching
Tongue Buckle Belt	1 3/4 " polyester strength member, 8,800 lbs. minimum tensile strength; optional 3" body pad	Cadmium or zinc plated tongue buckle and D-rings, 5,000 lbs minimum tensile strength; brass grommets.	Bonded high strength polyester thread, 5 to 7 stitches per inch
Friction Buckle Belt	2 " polyester strength member, 12,000 lbs. minimum tensile strength; optional 3" body pad, 2" backing web	Plated steel friction buckle cadmium plated or zinc plated D-rings, 5,000 lbs minimum tensile strength	
Firefighter's Belt	1 3/4 " polyester strength member, 8,800 lbs. minimum tensile strength; optional 4 1/2 " body pad	Cadmium or zinc plated tongue buckle and D-rings, 5,000 lbs minimum tensile strength; brass grommets; aluminum connecting hook, 5,000 lbs minimum tensile strength	

8.0 LABELING

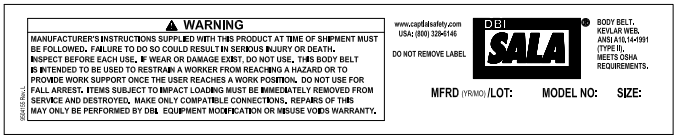
8.1 The following labels must be present and fully legible:

ID Label - OSHA Belt

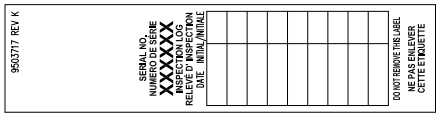


ID Label - CSA Belt

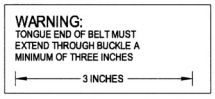
ID Label - Kevlar Belt



Inspection Log Label



Friction Buckle



MODEL NUMBERS

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1000001	1000023	1000070	1000127	1000172	1000250	1000454	1000517	1000615C	1000718	1000810
1000002	1000023C	1000082	1000128	1000173	1000270	1000455	1000518	1000616	1000719	1000811
1000002C	1000024	1000082C	1000129	1000173C	1000380	1000460	1000519	1000616C	1000745	1000812
1000003	1000024C	1000083	1000154	1000174	1000382	1000461	1000520	1000617	1000746	1000813
1000003C	1000025	1000083C	1000155	1000174C	1000385	1000462	1000530	1000617C	1000747	1000814
1000004	1000025C	1000084	1000156	1000175	1000412	1000463	1000531	1000618	1000748	1003212
1000004C	1000026	1000084C	1000157	1000175C	1000413	1000464	1000532	1000618C	1000750	1003213
1000005	1000026C	1000085	1000158	1000176	1000414	1000465	1000533	1000619	1000751	1003214
1000005C	1000027	1000085C	1000159	1000180	1000415	1000472	1000534	1000623	1000752	1003215
1000006	1000027C	1000086	1000160	1000181	1000416	1000473	1000535	1000631	1000753	1003216
1000006C	1000028	1000086C	1000161	1000182	1000417	1000474	1000536	1000640	1000778	1003217
1000007	1000029	1000087	1000161C	1000183	1000418	1000475	1000537	1000641	1000779	1150445C
1000007C	1000041	1000087C	1000162	1000184	1000419	1000477	1000562	1000642	1000780	1150446C
1000008	1000042	1000088	1000162C	1000185	1000420	1000480	1000563	1000643	1000781	1150447C
1000009	1000043	1000106	1000163	1000186	1000421	1000482	1000564	1000644	1000782	1150448C
1000013	1000044	1000112	1000163C	1000187	1000422	1000483	1000565	1000698	1000783	1150449C
1000014C	1000045	1000113	1000164	1000191	1000425	1000484	1000566	1000699	1000784	
1000015C	1000046	1000114	1000164C	1000195	1000426	1000485	1000567	1000708	1000785	
1000016C	1000050	1000115	1000165	1000196	1000427	1000486	1000568	1000709	1000790	
1000017	1000051	1000116	1000165C	1000199	1000428	1000487	1000611	1000710	1000791	
1000018	1000052	1000120	1000166	1000211	1000429	1000510	1000612	1000711	1000792	
1000019	1000053	1000121	1000166C	1000212	1000430	1000511	1000612C	1000712	1000793	
1000020	1000054	1000122	1000167	1000213	1000431	1000512	1000613	1000713	1000795	
1000021	1000055	1000123	1000167C	1000214	1000432	1000513	1000613C	1000714	1000796	
1000021C	1000056	1000124	1000168	1000215	1000433	1000514	1000614	1000715	1000807	
1000022	1000057	1000125	1000170	1000216	1000434	1000515	1000614C	1000716	1000808	

Additional Model Numbers may appear on the next printing of these instructions.

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:			
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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.

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