

Instructions for the following series products:

Full Body Harnesses

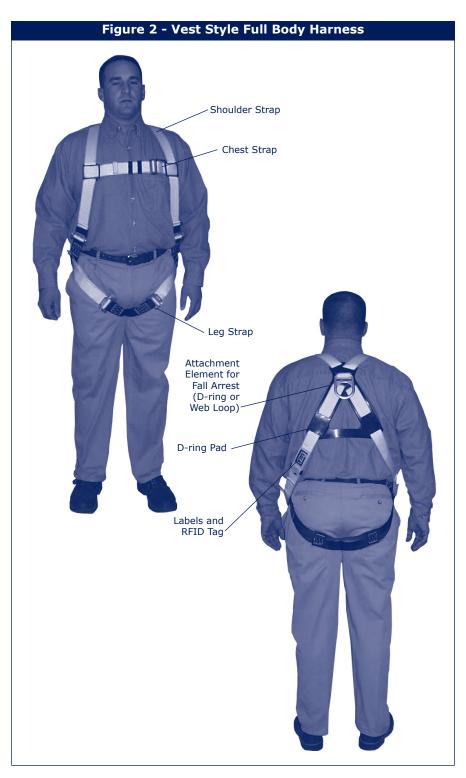
(See back pages for specific model numbers.)

USER INSTRUCTION MANUAL FULL BODY HARNESS

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











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 DBI-SALA.

IMPORTANT: Before using this equipment, record the product identification information from the ID label in the inspection and maintenance log in section 9.0 of this manual.

DESCRIPTIONS

Work Vest Style 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):

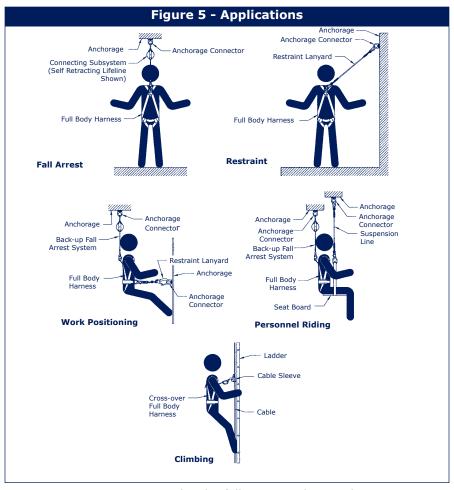
- Shoulder D-rings
- Side D-rings
- Hip pad with side D-rings
- Quick Connect buckles
- Tongue buckle body belt
- Loops on harness for body belt
- Kevlar® webbing
- High visibility webbing
- Non-sparking/Nonconductive PVC coated hardware
- Shoulder pads
- Tool belt support straps
- Seat sling
- Lanyard attached directly to D-ring or attachment element
- Snap fastener on shoulder strap for retaining lanyard
- Work 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 and OSHA 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.
- **B. 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.
- C. 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.
- D. PERSONNEL RIDING: The full body harness is used as a component of a personnel riding system to suspend or transport the user vertically. Personnel riding systems typically include a full body harness, boatswains's chair or seat board, and a back-up personal fall arrest system.
- **E. 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.
- **F. RESCUE:** The full body harness is used as a component of a rescue system. Rescue systems are configured depending on the type of rescue.

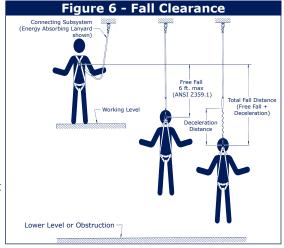


- **1.2 LIMITATIONS:** Consider the following application limitations before using this equipment:
 - **A. CAPACITY:** These full body harnesses are designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 420 lbs. Make sure all of the components in your system are rated to a capacity appropriate to your application
 - **B. FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 6 feet (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 or less. Personnel riding systems must be rigged so that no vertical free fall is possible. Climbing systems must be rigged so that free fall is limited to 18 inches or less. Rescue systems must be rigged so that no vertical free fall is possible. See subsystem manufacturer's instructions for more information.

C. 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
- Connecting subsystem length
- Deceleration distance
- Free fall distance
- Worker height
- Movement of harness attachment element



See subsystem manufacturer's instructions for more information.

D. 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.



- **E. 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.
- **F. 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.

G. 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 DBI-SALA if you question the use of this equipment in hazardous environments.

- H. 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 Z359.1 and local, state, and federal requirements for more information on personal fall arrest systems and associated components.

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

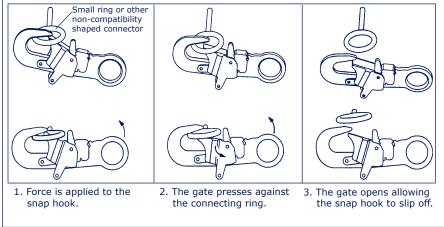
- 2.1 **COMPATIBILITY OF COMPONENTS:** DBI-SALA equipment is designed for use with DBI-SALA approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the 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 8. Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359.1 and OSHA.

Figure 8 - Unintentional Disengagement (Roll-out)

If the connecting element that a snap hook (shown) or carabiner attaches to 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.



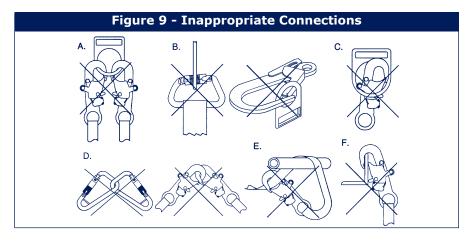
2.3 MAKING CONNECTIONS: Use only self-locking snap hooks and carabiners with this equipment. Use only connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed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

DBI-SALA 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. 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 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.



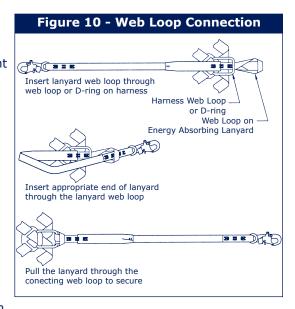
2.4 CONNECTING SUBSYSTEMS: Connecting subsystems (self-retracting lifeline, lanyard, rope grab and lifeline, cable sleeve) must be suitable for your application. See section 1.1. See subsystem manufacturer's instructions for more information. Some harness models have web loop connection points. Do not 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. Following are

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Following are
anchorage strength
requirements for
specific applications:

A. FALL ARREST:

The structure to which the personal fall arrest system is attached must sustain static loads applied in the directions permitted by the fall arrest system



of at least: 3,600 lbs. with certification of a qualified person, or 5,000 lbs. without certification. See ANSI Z359.1 for certification definition. When more than one personal fall arrest system is attached to an anchorage, the strengths stated above must be multiplied by the number of personal fall arrest systems attached to the anchorage.

From OSHA 1926.500 and 1910.66: Anchorages used for attachment of a personal fall arrest system shall be independent of any anchorage being used to support or suspend platforms, and must support at least 5,000 lbs. per user attached; or be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two, and is supervised by a qualified person.

- **B. RESTRAINT:** The structure to which the restraint system is attached must sustain static loads applied in the directions permitted by the restraint system of at least 3,000 lbs. When more than one restraint system is attached to an anchorage, the strengths stated above must be multiplied by the number of restraint systems attached to the anchorage.
- **C. WORK POSITIONING:** The structure to which the work positioning system is attached must sustain static loads applied in the directions permitted by the work positioning system of at least 3,000 lbs., or twice the potential impact load, whichever is greater. See OSHA 1926.502. When more than one work positioning system is attached to an anchorage, the strengths stated above must be multiplied by the number of work positioning systems attached to the anchorage.

- **D. PERSONNEL RIDING:** The structure to which the personnel riding system is attached must sustain static loads applied in the directions permitted by the personnel riding system of at least 2,500 lbs. When more than one personnel riding system is attached to an anchorage, the strengths stated above must be multiplied by the number of personnel riding systems attached to the anchorage.
- **E. RESCUE:** The structure to which the rescue system is attached must sustain static loads applied in the directions permitted by the rescue system of at least 2,500 lbs. When more than one rescue system is attached to an anchorage, the strengths stated above must be multiplied by the number of rescue systems attached to the anchorage.

3.0 DONNING AND USE

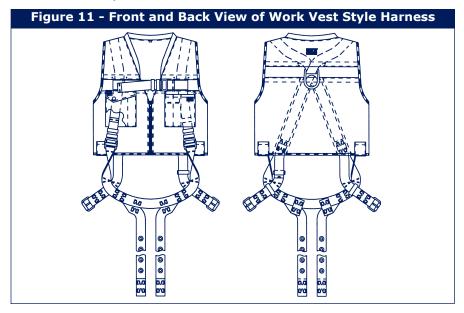
WARNING: Do not alter or intentionally misuse this equipment. Consult DBI-SALA when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when 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.
- **9.28 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:
 - **A. ANCHORAGE:** Select an anchorage that meets the requirements specified in sections 1.2 and 2.5.
 - **B. SHARP EDGES:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
 - C. AFTER A FALL: Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
 - **D. 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:

A. WORK VEST STYLE HARNESS: See Figure 11 for front and back views of the Work Vest style harness. Don the Work Vest style 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.
- Step 3. Reach between legs and grasp blue leg strap on your left side. Bring strap up between 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 4.** Connect chest strap by passing male buckle through female buckle. Pass excess webbing through loop keepers. See Figure 13.
- **Step 5.** 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.



Figure 13 - WorkVest Style Harness Buckle Connections



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



Parachute Buckle: Pass webbing under buckle and over roller and down between roller and frame. Pull web end to tighten. Three inches of web must extend past buckle.

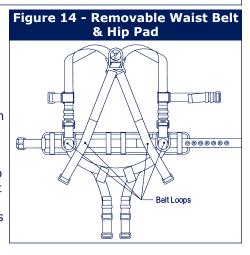


Tongue Buckle: Pass webbing through buckle and insert tongue through grommet.



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

B. 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 15 and 16):



- **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

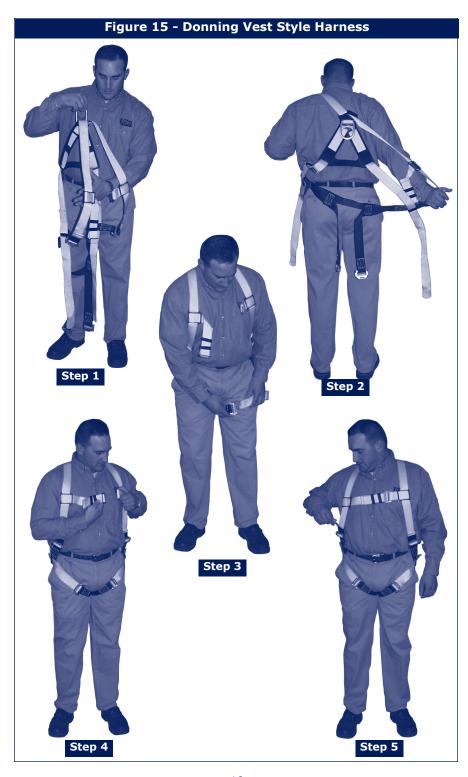


Figure 16 - Vest Style Harness Buckle Connections



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



Parachute Buckle: Pass webbing under buckle and over roller and down between roller and frame. Pull web end to tighten. Three inches of web must extend past buckle.



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



Chest Strap: Attach chest strap by inserting the tab of the buckle into the receptor of the quick connect buckle until a click is heard.



Tongue Buckle: Pass webbing through buckle and insert tongue through grommet.



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

harness and position shoulder straps on top of shoulder. Ensure straps are not tangled and hang freely. Chest strap with pass through buckle will be positioned on front side when worn properly.

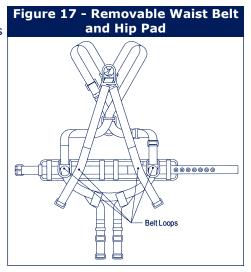
Step 3. Reach between your legs and grasp the leg strap on your left side. Bring the strap up between your legs and connect it by inserting the tab of the buckle into the receptor of quick connect buckle on the left side as shown in Figure 1. You will hear a click when the tab engages properly. Pull the free end of the strap away from the buckle to make a snug fit on each leg strap. To

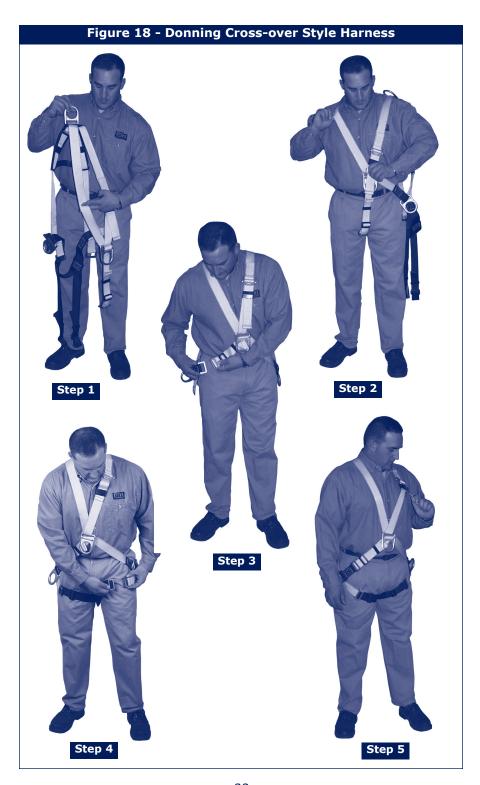
loosen the leg strap, grasp the yellow plastic portion of the buckle and pull away from your leg to allow the strap to pull through the buckle. A plastic end keeper on the end of the strap will stop it from pulling completely out of the buckle. To release the buckle, press the silver-colored tabs on the buckle towards each other with one hand, while pulling on the tab portion to the buckle with the other hand. Repeat this procedure for the right side.

- Attach the chest strap by inserting the tab of the buckle Step 4. into receptor of quick connect buckle. See Figure 1. You will hear a click when the tab engages properly. 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 yellow plastic portion of 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. To release the buckle, press the silvercolored tabs on the buckle towards each other with one hand, while pulling on the tab portion to the buckle with the other hand.
- **Step 5.** Adjust shoulder straps to a snug fit by pulling excess strap through the parachute buckles on each side of the harness. 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).

C. 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 18 and 19):

- **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 male pass-through buckle located on yellow strap (orange on high visibility models, black on flame resistant models) below front D-ring and connect to female pass-through buckle (attached to blue or strap on right hip). Male end of buckle must pass through female end. 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 attached to yellow strap (orange on high visibility

Figure 19 - Cross-over Style Harness Buckle Connections



Tongue Buckle: Pass webbing through buckle and insert tongue through grommet.



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



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



Parachute Buckle: Pass webbing under buckle and over roller and down between roller and frame. Pull web end to tighten. Three inches of web must extend past buckle.

- models, black on flame resistant models). Connect right leg strap.
- Step 5. Adjust shoulder straps to a snug fit. 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. At least three inches of webbing must extend past parachute adjuster buckle when used on leg straps. Adjust the waist belt (if present). Center retrieval D-rings (if present) on top of each shoulder.
- D. STEP-IN STYLE HARNESS: Don the step-in style full body harness by following these steps (see Figures 20 and 21):
- **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.** Step into harness by placing right leg over the seat sling and then your left leg.
- **Step 3.** Raise harness up and slip arms between front and back shoulder straps. Slip the back D-ring pad over your head with your head between the front shoulder straps and the adjuster links.
- **Step 4.** Reach between legs and grasp blue leg strap on your left side. Bring strap up between legs and connect to buckle attached to yellow strap (orange on high visibility models, black on flame resistant models). Connect right leg strap.
- Step 5. Tighten shoulder straps through adjuster links and front D-ring. Adjustment slack should be given out or taken up through the buckle on the lower left shoulder strap. Left and right 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 fight.
- 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.



Figure 21 - Step-in Style Harness Buckle Connections



Tongue Buckle: Pass webbing through buckle and insert tongue through grommet.



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



Parachute Buckle: Pass webbing under buckle and over roller and down between roller and frame. Pull web end to tighten. Three inches of web must extend past buckle.

- 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.

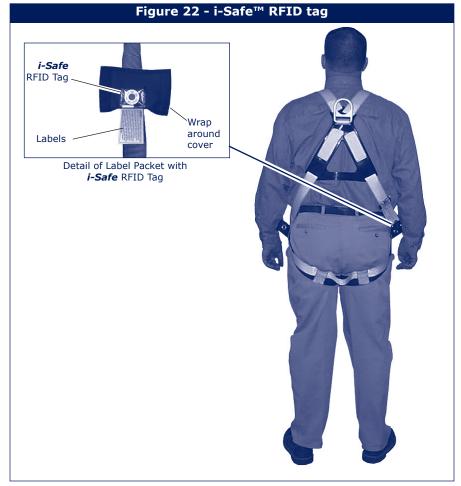
4.0 TRAINING

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 be inspected by a competent person, other than the user, at least annually. Record the results of each formal 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 in the US at 800-328-6146 or in Canada at 800-387-7484 or if you have already registered, go to: www.capitalsafety.com/isafe.html. 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 ensureing 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.
- **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.** Record the inspection date and results in the inspection and maintenance log in section 9.0, or use the i-Safe™ inspection web portal.

NOTE: Some harnesses are equiped 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 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

6.0 MAINTENANCE, SERVICING, STORAGE

6.1 WASHING INSTRUCTIONS:

A. 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.

B. 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, per federal

law and ANSI Z359.1.

Maximum Arresting Force: 1,800 lbs.

Capacity: 420 lbs.

Approximate Weight:
Harness only: 3 lbs.

Harness with Side D-rings: Add 1/2 lb. Harness with Back Pad or Belt: Add 1 lb. 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: 7000 lbs. Tensile strength Nylon 7000 lbs. 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

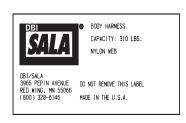
Optional Accessories:

- Hip Pad with side D-rings
- Nomex covered Kevlar webbing
- Non-sparking/ Non-conductive PVC coated hardware
- Arc-rated hip, leg, and back pads
- Polyurethane coated, arc-rated dorsal web loop

8.0 LABELING

8.1 The following labels must be present and completely legible:





Warning Label Used on Nylon ASTM F887-2004 Compliant Harnesses

8.1 LABELING, CONTINUED:

A WARNING I MMENCHER'S INSTRICTION MOT RE READ NO UNCERTION FILE WITH THIS PROJECT AT THE SHIPMEN HAS BE FILLIUM. FAILURE TO DO SO COLL DE SULT IN SERVICE HAVE RE REALIMENT FAILURE TO DO SO COLL DE SULT IN SERVICE HAVE RE REALIMENT CHETHE CHIEF CONTURE FIF HER OF HAMMES IN FRESHET THIS BORY HAVES IS INTEREDED TO BE USED TO MORSEST THE MOST SEPREME FIRE FAILS. THEN SOURCESTED FROM SERVICE MO DESTROOM. HAS TO BE HAMED HAVE TO BE COMPATIBLE IN 1812, SHIPMEN HAVE TO BE COMPATIBLE IN 1812, SHIPMEN HAVE THEN SHIPMEN HAD DESTROOM. ONE FIRE MEDITALLY REPORTED COMPATIBLE IN 1812, SHIPMEN HAD STRENGTH. REPAIRS ONLY TO BE PREFORMED BY OBI-SHALL EDIJIHENT MODIFICATION OR MISSES VOILS WARRANTY.



Warning Label Used on Nomex/Kevlar ASTM F887-2004 Compliant Harnesses



Book Label Assembly



Warning Label
Used on Vest, Vest Construction,
Work Vest, Cross-over, Crossover
Construction, and
Step-in Style Harnesses



Warning Label
Used on CSA Vest, CSA Cross-over, CSA
Vest Construction, and CSA Cross-over
Construction Harnesses



ID/Inspection Label Used on all Harnesses



Warning Label
Used on Flame Resistant Vest, Flame
resistant Cross-over, Flame Resistant Vest
Construction, Flame Resistant Cross-over
Constructions, and
Flame Resistant Step-in Harnesses



Warning Label Used on CSA Flame Resistant Vest, CSA Flame resistant Cross-over, CSA Flame Resistant Vest Construction, CSA Flame Resistant Cross-over Construction, and CSA Flame Resistant Step-in Harnesses



Cover/Instruction Label
Used on Vest, Flame Resistant Vest, CSA
Vest, and Work Vest Harnesses



Cover/Instruction Label
Used on Vest Construction, Flame Resistant
Vest Construction, CSA Vest Construction,
and CSA Flame Resistant Vest Construction
Harnesses



Cover/Instruction Label
Used on Cross-over, Flame Resistant
Cross-over, CSA Cross-over, and CSA Flame
Resistant Cross-over Harnesses



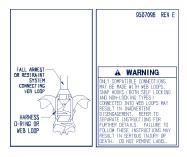
Cover/Instruction Label
Used on Cross-over Construction, Flame
Resistant Cross-over Construction, CSA
Cross-over Construction, and CSA Flame
Resistant Cross-over Construction Harnesses



Cover/Instruction Label
Used on Step-in, Flame Resistant Step-in,
and CSA Flame Resistant Step-in Harnesses



Cover/Instruction Label
Used on Vest Style Harnesses With Front
D-ring



Harnesses With Web Loops



RFID Serial Number Label

9.0 INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER:						
MODEL NUMBER						
DATE PURCHASE						
DATE I ORGINASI			_			
INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED			
A 1.D						
Approved By:	I					
Approved By:						
Assessed Dec						
Approved By:	I					
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This instruction applies to the following models:

1100092	1100927	1101438	1101636	1101789	1101840
1100137	1100928	1101439	1101637	1101790	1101841
1100181	1100929	1101440	1101638	1101791	1101842
1100195	1101021	1101441	1101639	1101792	1101843
1100230	1101022	1101450	1101640	1101793	1101844
1100231	1101023	1101451	1101641	1101794	1101845
1100232	1101069	1101452	1101642	1101795	1101846
1100233	1101100	1101453	1101643	1101796	1101847
1100245	1101116	1101454	1101644	1101797	1101849
1100246	1101117	1101455	1101645	1101798	1101851
1100247	1101118	1101456	1101646	1101799	1101852
1100299	1101119	1101457	1101647	1101800	1101853
1100406	1101120	1101458	1101649	1101801	1101854
1100482	1101121	1101459	1101650	1101802	1101855
1100520	1101214	1101460	1101651	1101803	1101856
1100521	1101215	1101461	1101652	1101804	1101857
1100522	1101216	1101462	1101653	1101805	1101858
1100540	1101217	1101463	1101654	1101806	1101859
1100541	1101218	1101464	1101655	1101807	1101860
1100542	1101219	1101465	1101656	1101808	1101861
1100543	1101240	1101466	1101657	1101809	1101862
1100550	1101241	1101467	1101658	1101810	1101863
1100675	1101250	1101468	1101659	1101811	1101864
1100676	1101251	1101469	1101660	1101812	1101866
1100700	1101252	1101470	1101661	1101813	1101867
1100701	1101253	1101471	1101662	1101814	1101869
1100702	1101254	1101472	1101663	1101815	1101870
1100703	1101255	1101473	1101664	1101816	1101871
1100704	1101256	1101474	1101665	1101817	1101872
1100725	1101257	1101511	1101666	1101818	1101873
1100726	1101258	1101512	1101667	1101819	1101874
1100727	1101259	1101513	1101668	1101820	1101909
1100750	1101260	1101514	1101669	1101821	1101910
1100756	1101261	1101515	1101670	1101822	1101911
1100762	1101262	1101516	1101671	1101823	1101912
1100767	1101263	1101554	1101672	1101824	1101975
1100768	1101264	1101611	1101673	1101826	1101976
1100769	1101265	1101612	1101775	1101827	1101977
1100775	1101266	1101613	1101776	1101828	1101978
1100776	1101267	1101625	1101777	1101829	1101979
1100777	1101268	1101626	1101778	1101830	1101980
1100778	1101269	1101627	1101779	1101831	1101981
1100779	1101270	1101628	1101780	1101832	1102000
1100780	1101271	1101629	1101781	1101833	1102001
1100781	1101272	1101630	1101782	1101834	1102008
1100840	1101273	1101631	1101783	1101835	1102009
1100841	1101274	1101632	1101784	1101836	1102010
1100842	1101340	1101633	1101785	1101837	1102025
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1100926	1101437	1101635	1101787	1101839	1102027

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1102030	1102880	1103351	1103828	1104740	1104885
1102031	1102881	1103351	1103829	1104740	1104886
1102032	1102881	1103352	1103829	1104741	1104887
1102034	1102901	1103354	1103837	1104743	1104888
1102035	1102903	1103355	1103850	1104744	1104889
1102036	1102904	1103356	1103851	1104745	1104890
1102037	1102905	1103357	1103852	1104746	1104891
1102038	1102907	1103358	1103853	1104747	1104892
1102039	1102908	1103359	1103854	1104748	1104893
1102040	1102911	1103360	1103855	1104749	1104894
1102041	1102912	1103361	1103856	1104775	1104900
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1102043	1102926	1103376	1103861	1104777	1104902
1102053	1102927	1103377	1103875	1104778	1104903
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1102201	1102929	1103379	1103877	1104780	1104905
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1102206	1102950	1103382	1103879	1104782	1104907
1102207	1102951	1103383	1103880	1104783	1104908
1102525	1102952	1103384	1103882	1104800	1104909
1102526	1102953	1103385	1103884	1104801	1104910
1102527	1102954	1103386	1103885	1104802	1104911
1102528	1102955	1103393	1103886	1104803	1104912
1102529	1102956	1103394	1103888	1104804	1104914
1102530	1102957	1103395	1104125	1104805	1104915
1102531	1102962	1103510	1104126	1104806	1104916
1102532	1102963	1103511	1104625	1104850	1104917
1102533	1102964	1103512	1104626	1104851	1104918
1102534	1102965	1103513	1104627	1104852	1104919
1102535	1102966	1103575	1104628	1104853	1104920
1102536	1102972	1103576	1104629	1104854	1104921
1102537	1102973	1103577	1104630	1104855	1104924
1102538	1103251	1103610	1104631	1104856	1104950
1102539	1103252	1103611	1104632	1104857	1104951
1102540	1103253	1103800	1104633	1104858	1104952
1102541	1103254	1103801	1104635	1104859	1104953
1102542	1103255	1103802	1104636	1104860	1104954
1102543	1103256	1103803	1104650	1104861	1104955
1102546	1103257	1103804	1104725	1104863	1105000
1102548	1103258	1103805	1104726	1104866	1105001
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1102559	1103263	1103810	1104731	1104875	1105300
1102560	1103264	1103811	1104732	1104876	1105301
1102625	1103265	1103812	1104733	1104877	1105325
1102875	1103266	1103813	1104734	1104878	1105326
1102876	1103267	1103814	1104735	1104879	1105327

1105328 1105678 1105952 1106067 1106306 1106414 1105330 1105681 1105953 1106068 1106306 1106414 1105331 1105681 1105954 1106069 1106308 1106426 1105375 1105682 1105975 1106007 1106309 1106426 1105375 1105681 1106000 1106071 1106310 1106451 1105376 1105726 1106002 1106326 1106451 1105377 1105726 1106002 1106326 1106452 1105378 1105727 1106003 1106100 1106327 1106451 1105382 1105728 1106004 1106101 1106328 1106454 1105383 1105729 1106005 1106102 1106328 1106454 1105343 1105733 1106006 1106103 1106330 1106456 1105404 1105733 1106006 1106303 1106475 1105404 1105750 1106011						
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1105350 1105682 1105975 1106070 1106310 1106450 1105376 1105725 1106001 1106072 1106326 1106450 1105377 1105726 1106002 1106074 1106325 1106452 1105378 1105726 1106002 1106100 1106326 1106452 1105381 1105728 1106005 1106102 1106328 1106453 1105382 1105730 1106005 1106102 1106329 1106455 1105400 1105732 1106008 1106103 1106331 1106456 1105401 1105733 1106008 1106104 1106331 1106475 1105402 1105733 1106008 1106105 1106332 1106476 1105403 1105753 1106010 1106107 1106333 1106477 1105404 1105752 1106011 1106108 1106331 1106478 1105406 1105752 1106011 1106108 1106351 1106478	1105330	1105680	1105953	1106068	1106307	1106425
1105350 1105682 1105975 1106070 1106310 1106450 1105376 1105725 1106001 1106072 1106326 1106450 1105377 1105726 1106002 1106074 1106325 1106452 1105378 1105726 1106002 1106100 1106326 1106452 1105381 1105728 1106005 1106102 1106328 1106453 1105382 1105730 1106005 1106102 1106329 1106455 1105400 1105732 1106008 1106103 1106331 1106456 1105401 1105733 1106008 1106104 1106331 1106475 1105402 1105733 1106008 1106105 1106332 1106476 1105403 1105753 1106010 1106107 1106333 1106477 1105404 1105752 1106011 1106108 1106331 1106478 1105406 1105752 1106011 1106108 1106351 1106478						
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1107225	1107625	1107826	1108129	1109078	1109676
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1107278	1107651	1107833	1108176	1109108	1109854
1107279	1107652	1107834	1108177	1109109	1109885
1107400	1107653	1107836	1108178	1109110	1109886
1107401	1107656	1107850	1108179	1109111	1109975
1107402	1107658	1107851	1108180	1109121	1110025
1107403	1107659	1107875	1108181	1109125	1110026
1107404	1107725	1107900	1108183	1109126	1110027
1107405	1107726	1107901	1108184	1109127	1110028
1107406	1107727	1107902	1108185	1109128	1110029

1110050	1110784	1110995	3103541
1110051	1110785	1111000	3103542
1110052	1110786	1111001	3103543
1110570	1110787	1111002	3103544
1110575	1110788	1111003	3103545
1110576	1110790	1111004	3103546
1110577	1110791	1199999	3103547
1110578	1110792	1310065	3103548
1110582	1110793	3103300	3103549
1110586	1110800	3103301	3103550
1110587	1110801	3103330	3103551
1110588	1110802	3103331	3103552
1110600	1110803	3103332	3103553
		3103333	
1110601	1110810		1100890C
1110602	1110811	3103334	1100891C
1110603	1110812	3103335	1100892C
1110604	1110813	3103336	1100893C
1110605	1110814	3103337	1101252H
1110606	1110820	3103350	1101462C
1110608	1110830	3103351	1101627C
1110618			
	1110831	3103375	1101628C
1110625	1110832	3103377	1101629C
1110626	1110850	3103385	1101630C
1110627	1110851	3103386	1101631C
1110650	1110852	3103387	1101632C
1110675	1110853	3103388	1101637C
1110700	1110854	3103389	1101639C
1110701	1110855	3103390	1101641C
1110702	1110856	3103395	1101642C
1110704	1110857	3103420	1101643C
1110725	1110858	3103450	1101644C
1110727	1110859	3103451	1101791C
1110750	1110930	3103452	1101796C
1110751	1110935	3103453	1101827C
1110752	1110940	3103471	1101828C
1110753	1110941	3103490	1101851C
1110760	1110942	3103491	1101854C
1110761	1110950	3103495	1101855C
1110762	1110951	3103496	1101856C
1110770	1110952	3103515	1101858C
1110771	1110953	3103520	1101860C
1110772	1110954	3103521	1101871C
1110772	1110955	3103521	
			1102000H
1110780	1110956	3103523	1102001C
1110781	1110990	3103524	1102009C
			11020070
1110782	1110992	3103525	
1110783	1110994	3103540	

Additional model numbers may appear on the next printing.

WARRANTY

Equipment offered by DBI-SALA are warranted against factory defects in workmanship and materials for a period of two years from date of installation or use by the owner, provided that this period shall not exceed two years from the date of shipment. Upon notice in writing, DBI-SALA will promptly repair or replace all defective items. DBI-SALA reserves the right to elect to have any defective item returned to its plant for inspection before making a repair or replacement. This warranty does not cover equipment damages resulting from abuse, damage in transit, or other damage beyond the control of DBI-SALA. This warranty applies only to the original purchaser and is the only one applicable to our products, and is in lieu of all other warranties, expressed or implied.



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