PSD Technical Content

Review Summary

Project Title: IFU 5908132 - ANSI Sealed-Blok SRDs

Details of Request:

Technical Content Contact:	Stewart Shelton
Today's Date:	11/15/2024 8:24:40 PM
Date Needed:	2024-07-19
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Collaborative Review:	Keerthana Chandran (AE), Treyben Kehren (PE), Chris Dubois (Reg)
Management Review:	Cassie Jacobson
Legal Review:	Lisa Brihn

Content Summary:

Portfolio:	["Fall Protection"]
Region:	["USAC","LATAM","EMEA","APAC"]
Audience:	External
Asset Type:	Instructions (UIs or IFUs)
Translations Needed:	

Additional Comments:

Update to IFU 5908132 to add the new ANSI Z359.14-2021 85' sealed blok units launching in July.
https://multimedia.3m.com/mws/media/2283051O/3m-sealed-blok-srds-user-instructions.pdf

Fall Protection

ANSI/ASSP Z359.14-2021
ANSI/ASSP Z359.4-2013

OSHA 29 CFR 1910.140
OSHA 29 CFR 1926.502

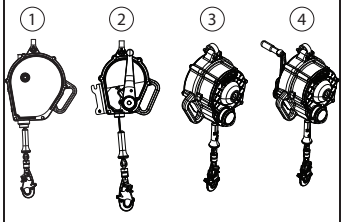
3M™ SEALED-BLOK™ SELF-RETRACTING DEVICES

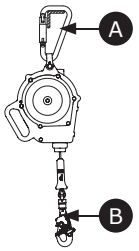
USER INSTRUCTIONS

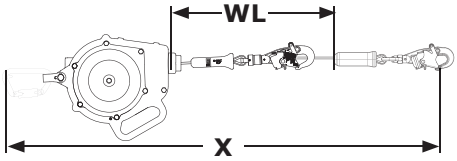
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☑ *For identification of product codes, refer to Table 1. See "Table 1 - Product Specifications" for more product information.*

Figure 1 - Product Overview







ANSI (Class 1)	ANSI Z359.4-2013	OSHA	Model		Connectors A	Connectors B	Housing Size	Lifeline	Fast-Line Model	Extended Length (X)	Working Length (WL)
✓		✓	**3400135**	①	C1	C2	Size A	SS1	3900489	50 ft. (15.2 m)	48 ft. (14.6 m)
✓		✓	**3400137**	①			Size F		3900490	85 ft. (25.9 m)	82.9 ft. (25.3 m)
✓		✓	**3400149**	②			Size B		3900489	50 ft. (15.2 m)	48 ft. (14.6 m)
✓		✓	**3400150**	②			Size C		3900489	50 ft. (15.2 m)	48 ft. (14.6 m)
✓		✓	**3400154**	②			Size G		3900490	85 ft. (25.9 m)	82.9 ft. (25.3 m)
✓		✓	**3400155**	②			Size H		3900490	85 ft. (25.9 m)	82.9 ft. (25.3 m)
✓	✓	✓	**3400162**	③			Size D		3900489	50 ft. (15.2 m)	48 ft. (14.6 m)
✓	✓	✓	**3400163**	③			Size I		3900490	85 ft. (25.9 m)	82.9 ft. (25.3 m)
✓	✓	✓	**3400165**	④			Size E		3900489	50 ft. (15.2 m)	48 ft. (14.6 m)
✓	✓	✓	**3400166**	④			Size J		3900490	85 ft. (25.9 m)	82.9 ft. (25.3 m)

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SAFETY INFORMATION

Please read, understand, and follow all safety information contained in these instructions, prior to the use of this product. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

These instructions must be provided to the user of the equipment. Retain these instructions for future reference.

Intended Use:

This product is used as part of a complete Fall Protection system.

Use in any other application including, but not limited to, material handling, recreational or sports-related activities, or other activities not described in these instructions, is not approved by 3M and could result in serious injury or death.

This product is only to be used by trained users in workplace applications.

⚠ WARNING

This product is used as part of a complete Fall Protection system. All users must be fully trained in the safe installation and operation of their complete Fall Protection system. **Misuse of this product could result in serious injury or death.** For proper selection, operation, installation, maintenance, and service, refer to all instruction manuals and manufacturer recommendations. For more information, see your supervisor or contact 3M Technical Services.

- **To reduce the risks associated with using a Self-Retracting Device which, if not avoided, could result in serious injury or death:**
  - Inspect the product before each use and after any fall event, in accordance with the procedures specified in these instructions.
  - If inspection reveals an unsafe or defective condition, remove the product from service immediately and clearly tag it "DO NOT USE". Destroy or repair the product as required by these instructions.
  - Any product that has been subject to fall arrest or impact force must be immediately removed from service. Destroy or repair the product as required by these instructions.
  - Ensure that Fall Protection systems assembled from components made by different manufacturers are compatible and meet all applicable Fall Protection regulations, standards, or requirements. Always consult a Competent or Qualified Person before using these systems.
  - Ensure the product is kept free from all hazards including, but not limited to: entanglement with users, other workers, moving machinery, other surrounding objects, or impact from overhead objects that could fall onto the product or users.
  - Do not twist, tie, knot, or allow slack in the lifeline.
  - Avoid trip hazards with legs of the lifeline. Attach any unused lifeline legs to the lanyard parking elements on your full body harness, if present.
  - Do not exceed the number of allowable users specified in these instructions.
  - Do not use in applications that have an obstructed fall path. A clear path is required to lock the SRD. Working on slowly shifting materials (e.g. sand or grain), or within confined spaces or limited spaces, may not allow the worker to reach sufficient speed to lock the SRD.
  - Avoid sudden or quick movements during work operation because this may cause the SRD to unintentionally lock.
  - Use caution when installing, using, or moving the product as moving parts may create pinch points.
  - Use appropriate edge protection when the product may contact sharp edges or abrasive surfaces.
  - Ensure the product is configured and installed properly for safe operation as described in these instructions.
  - Immediately remove the product from service if it has been used in a descent.
  - Before use, ensure the descent path and landing area are clear of any obstructions or hazards.

- **To reduce the risks associated with working at height which, if not avoided, could result in serious injury or death:**
  - Your health and physical condition must allow you to safely work at height and to withstand all forces associated with a fall arrest event. Consult your doctor if you have questions regarding your ability to use this equipment.
  - Never exceed allowable capacity of your Fall Protection equipment.
  - Never exceed the maximum free fall distance specified for your Fall Protection equipment.
  - Do not use any Fall Protection equipment that fails inspection, or if you have concerns about the use or suitability of the equipment. Contact 3M Technical Services with any questions.
  - Some subsystem and component combinations may interfere with the operation of this equipment. Only use compatible connections. Contact 3M Technical Services before using this equipment in combination with components or subsystems other than those described in these instructions.
  - Use extra precautions when working around moving machinery, electrical hazards, extreme temperatures, chemical hazards, explosive or toxic gases, sharp edges, abrasive surfaces, or below overhead materials that could fall onto you or your Fall Protection equipment.
  - Ensure use of your product is rated for the hazards present in your work environment.
  - Ensure there is sufficient fall clearance when working at height.
  - Never modify or alter your Fall Protection equipment. Only 3M, or persons authorized in writing by 3M, may make repairs to 3M equipment.
  - Before using Fall Protection equipment, ensure a written rescue plan is in place to provide prompt rescue if a fall incident occurs.
  - If a fall incident occurs, immediately seek medical attention for the fallen worker.
  - Only use a full body harness for Fall Arrest applications. Do not use a body belt.
  - Minimize swing falls by working as directly below the anchorage point as possible.
  - A secondary Fall Protection system must be used when training with this product. Trainees must not be exposed to an unintended fall hazard.
  - Always wear appropriate Personal Protective Equipment when installing, using, or inspecting the product.
  - Never work below a suspended load or worker.
  - Always maintain 100% tie-off.

☑ *Always ensure you are using the latest revision of your 3M instruction manual. Visit www.3m.com/userinstructions or contact 3M Technical Services for updated instruction manuals.*

PRODUCT OVERVIEW:

Figure 1 illustrates the 3M™ DBI-SALA® Sealed-Blok™ Self-Retracting Device (SRD). Sealed-Blok SRDs are drum-wound wire rope lifelines that retract into sealed aluminum housings. Sealed-Blok SRDs are designed for overhead applications where the SRD is mounted above the user and the lifeline remains vertical during use.

The following SRD types are covered by this instruction:

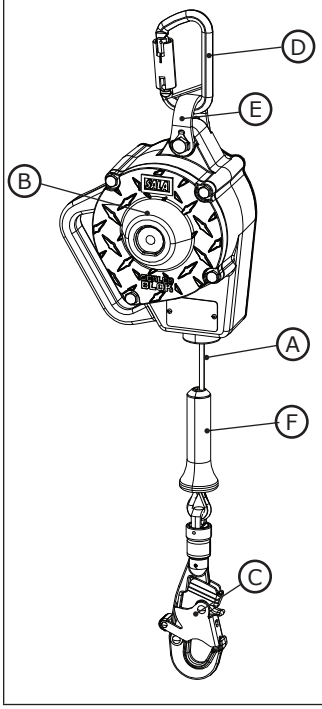
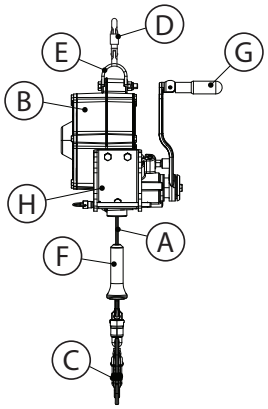
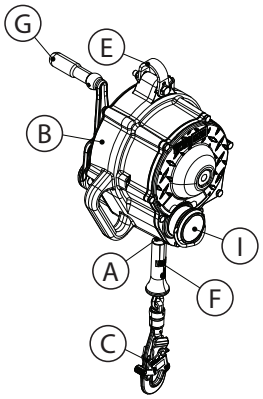
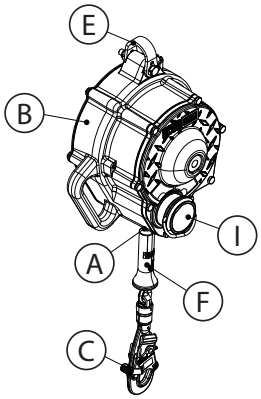
- **Class 1 Self-Retracting Device (Figures 1.1, 2.1):** Class 1 Self-Retracting Devices (SRDs) are suitable for applications where the lifeline remains generally vertical during use. This type may be used for Fall Arrest or Restraint applications.
- **Class 1 Self-Retracting Device with Rescue (Figures 1.2, 1.3, 1.4, 2.2, 2.3, 2.4):** Class 1 Self-Retracting Devices with Rescue (SRD-Rs) include an integral means for assisted rescue by raising or lowering the subject. This type may be used for Fall Arrest, Restraint, or Rescue applications.

Figure 2 identifies key components of the available SRD models. In a standard SRD, the Lifeline (A) extends and retracts from within the Housing (B). The Top Connector (D) mounted on the SRD secures the SRD to the anchorage point and is connected to the SRD by means of the Swivel Eye (E). The Bottom Connector (C) is secured at the end of the Lifeline and attaches to the designated Fall Arrest attachment element of the user's full body harness. A Bumper (F), protects the Wire Rope and Ferrules securing the Snap Hook from abrasion and corrosion.

SRD-R models covered in this instruction include some additional components. The Rotation Handle (G) is used to retrieve the Lifeline (A) after the Bottom Connector (C) has been secured to the harness of the subject of rescue. The Bracket (H) enables the SRD-R to be mounted to a tripod during use. Some SRD-R models include an RSQ™ Descent Knob (I), which allows the user to switch between fall arrest or descent modes.

Each product model has its own particular size and its own combination of components as listed in Figure 1. See Table 1 for more information on Component Specifications.

Figure 2 - Components

2.1	2.2	2.3	2.4
			

☑ *Before using this equipment, record the product identification information from the ID label in the 'Inspection and Maintenance Log' at the back of this manual.*

Table 1 – Product Specifications

System Specifications:

Anchorage:

Anchorage structure requirements vary with the system application and whether it is a certified anchorage or non-certified anchorage. The anchorage structure must sustain static loads applied in the directions permitted by the anchorage connector.

System Application	Certified Anchorage	Non-Certified Anchorage	Defined by
Fall Arrest	2 times maximum arresting force	5,000 lbf (22.2 kN)	ANSI Z359 OSHA 29 CFR 1910.140, 1926.502
Restraint	2 times foreseeable force	1,000 lbf (4.4 kN)	ANSI Z359
		5,000 lbf (22.2 kN)	OSHA 29 CFR 1910.140, 1926.502
Work Positioning	2 times foreseeable force	3,000 lbf (13.3 kN)	ANSI Z359 OSHA 29 CFR 1910.140, 1926.502
Rescue	5 times applied load	3,000 lbf (13.3 kN)	ANSI Z359

When more than one system is attached to an anchorage, the strengths stated above must be multiplied by the number of systems attached to the anchorage. See ANSI/ASSP Z359.2 for more information.

☑ *Anchorage must be approved by a Qualified Person.*

Service Temperature: -40°F to 130°F (-40°C to 54.4°C)

Standards: Each product model is certified to, or conforms with, the applicable standards and regulations listed within Figure 1. If none are listed within Figure 1, then everything listed on the cover appies.

Component Specifications:

Figure 2 Reference	Component	Materials
Ⓐ	Lifeline	(see Lifeline Specifications)
Ⓑ	Housing	Aluminum
Ⓒ	Bottom Connector	(see Connector Specifications)
Ⓓ	Top Connector	(see Connector Specifications)
Ⓔ	Swivel Eye	Stainless Steel
Ⓕ	Bumper	Thermosplastic polyurethane
Ⓖ	Retrieval Hand Crank	Stainless Steel
Ⓗ	Tripod Mounting Bracket	Stainless Steel

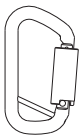
☑ ***Internal Components:*** *Internal SRD components are made from a combination of stainless steel, steel, aluminum, and other materials.*

Connector Specifications:

Figure 1 Reference	Model Number	Description	Material	Gate Opening	Gate Strength
C1	2000127	Carabiner	Stainless steel	11/16-in. (17 mm)	3,600 lbf (16 kN)
C2	2000181	Swiveling Self-Locking Snap Hook with Impact Indicator	Stainless steel	3/4-in. (19 mm)	3,600 lbf (16 kN)

☑ ***Tensile Strength:*** *The tensile strength of each of the connectors listed above is 22.2 kN (5,000 lbf).*

Table 1 – Product Specifications

C1	C2
	

Lifeline Specifications:	
Figure 1 Reference	**Description**
SS1	13/64-in. (5 mm) stainless steel wire rope

Performance - SRDs (3400135)	**ANSI Z359.14-2021 OSHA 29 CFR 1910.140, 1926.502**	**OSHA 29 CFR 1910.140, 1926.502**	
Capacity Range:	130 lb. - 310 lb. (59 kg - 140 kg)	130 lb. - 310 lb. (59 kg - 140 kg)	311 lb. - 420 lb. (141 kg - 191 kg)
Maximum Arresting Force:	1, 350 lbf (6 kN)	1, 350 lbf (6 kN)	1,800 lbg (8 kN)
Average Arresting Force:	900 lbf (4 kN)	900 lbf (4 kN)	N/A
Maximum Arrest Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)	42 in. (1.1 m)
Maximum Deceleration Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)	42 in. (1.1 m)
Minimum Fall Clearance Required: **Assumes the SRD is mounted directly above the user.*	5 ft. (1.5 m)	5 ft. (1.5 m)	5 ft. (1.5 m)
Maximum Free Fall: **SRD must be mounted above user's D-ring.*	2 ft. (0.6 m)	2 ft. (0.6 m)	2 ft. (0.6 m)

Performance - SRDs (3400137)	**ANSI Z359.14-2021 OSHA 29 CFR 1910.140, 1926.502**	**OSHA 29 CFR 1910.140, 1926.502**	
Capacity Range:	130 lb. - 310 lb. (59 kg - 140 kg)	130 lb. - 310 lb. (59 kg - 140 kg)	311 lb. - 420 lb. (141 kg - 191 kg)
Maximum Arresting Force:	1, 500 lbf (6.7 kN)	1,350 lbf (6 kN)	1,350 lbf (6 kN)
Average Arresting Force:	1,125 lbf (5 kN)	900 lbf (4 kN)	N/A
Maximum Arrest Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)	55 in. (1.4 m)
Maximum Deceleration Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)	42 in. (1.1 m)
Minimum Fall Clearance Required: **Assumes the SRD is mounted directly above the user.*	5 ft. (1.5 m)	5 ft. (1.5 m)	5 ft. (1.5 m)
Maximum Free Fall: **SRD must be mounted above user's D-ring.*	2 ft. (0.6 m)	2 ft. (0.6 m)	2 ft. (0.6 m)

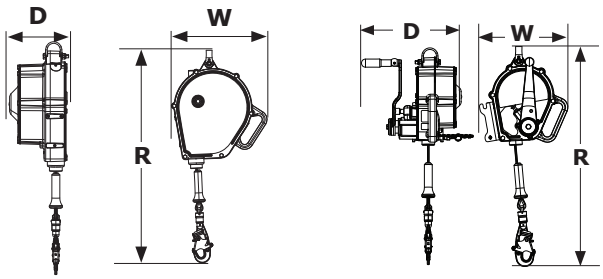
Performance - SRD-Rs (3400149, 3400150)	**ANSI Z359.14-2021 OSHA 29 CFR 1910.140, 1926.502**	**OSHA 29 CFR 1910.140, 1926.502**	
Capacity Range:	130 lb. - 310 lb. (59 kg - 140 kg)	130 lb. - 310 lb. (59 kg - 140 kg)	311 lb. - 420 lb. (141 kg - 191 kg)
Maximum Arresting Force:	1, 350 lbf (6 kN)	1, 350 lbf (6 kN)	1,800 lbf (8 kN)
Average Arresting Force:	900 lbf (4 kN)	900 lbf (4 kN)	N/A
Maximum Arrest Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)	42 in. (1.1 m)
Maximum Deceleration Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)	42 in. (1.1 m)
Minimum Fall Clearance Required: **Assumes the SRD is mounted directly above the user.*	5 ft. (1.5 m)	5 ft. (1.5 m)	5 ft. (1.5 m)
Maximum Free Fall: **SRD must be mounted above user's D-ring.*	2 ft. (0.6 m)	2 ft. (0.6 m)	2 ft. (0.6 m)
Maximum Lifting Load:	310 lb. (140 kg)	310 lb. (140 kg)	420 lb. (191 kg)
Operating Force for Retrieval Crank: **When present.*	52 lb. (23.6 kg)	52 lb. (23.6 kg)	67 lb. (30.4 kg)

Table 1 – Product Specifications

Performance - SRD-Rs (3400162, 3400165)	ANSI Z359.14-2021 ANSI Z359.4-2013	OSHA 29 CFR 1910.140, 1926.502
Capacity Range:	130 lb. - 310 lb. (59 kg - 140 kg)	130 lb. - 310 lb. (59 kg - 140 kg)
Maximum Arresting Force:	1, 350 lbf (6 kN)	1, 350 lbf (6 kN)
Average Arresting Force:	900 lbf (4 kN)	900 lbf (4 kN)
Maximum Arrest Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)
Maximum Deceleration Distance: **Assumes the SRD is mounted directly above the user.*	42 in. (1.1 m)	42 in. (1.1 m)
Minimum Fall Clearance Required: **Assumes the SRD is mounted directly above the user.*	5 ft. (1.5 m)	5 ft. (1.5 m)
Maximum Free Fall: **SRD must be mounted above user's D-ring.*	2 ft. (0.6 m)	2 ft. (0.6 m)
Maximum Lifting Load:	310 lb. (140 kg)	310 lb. (140 kg)
Operating Force for Retrieval Crank: **When present.*	52 lb. (23.6 kg)	52 lb. (23.6 kg)
Descent Rate: **Only applies to use of the RSQ descent function.*	1.6 ft/s - 6.6 ft/s (0.49 m/s - 2.01 m/s)	1.6 ft/s - 6.6 ft/s (0.49 m/s - 2.01 m/s)

Dimensions:

Figure 1 Reference	D	W	R
Size A	6.2 in. (15.7 cm)	10.3 in. (26.1 cm)	23.6 in. (60.0 cm)
Size B	12.7 in. (32.2 cm)	10.3 in. (26.1 cm)	23.6 in. (60.0 cm)
Size C	12.7 in. (32.2 cm)	11.5 in. (29.2 cm)	23.6 in. (60.0 cm)
Size D	7.0 in. (17.8 cm)	10.3 in. (26.2 cm)	23.6 in. (59.9 cm)
Size E	13.3 in. (33.8 cm)	10.3 in. (26.2 cm)	23.6 in. (59.9 cm)
Size F	"7.2 in. (18.3 cm)"	"12.3 in. (31.2cm)"	"26.4 in. (67.1cm)"
Size G	"13.5 in. (34.3cm)"	"12.3 in. (31.2cm)"	"26.4 in. (67.1cm)"
Size H	"13.5 in. (34.3cm)"	"13.5 in. (34.3cm)"	"26.4 in. (67.1cm)"
Size I	"7.8 in. (19.8cm)"	"12.3 in. (31.2cm)"	"26.4 in. (67.1cm)"
Size J	"14.1 in. (35.8 cm)"	"12.3 in. (31.2cm)"	"26.4 in. (67.1cm)"



1.0 PRODUCT APPLICATION

1.1 PURPOSE: 3M Self-Retracting Devices (SRDs) are designed for use as a connecting subsystem in a Fall Protection system. Once anchored, the lifeline extends and retracts automatically as the worker moves. If a fall occurs, a sensing mechanism activates the device and arrests the fall. For more information on system applications, refer to the "Product Overview" and Table 1.

1.2 SUPERVISION: Use of this equipment must be supervised by a Competent Person.

1.3 STANDARDS: Your product conforms to the national or regional standards identified on the front cover of these instructions. If this product is resold outside the original country of destination, the re-seller must provide these instructions in the language of the country in which the product will be used.

> ☑ *For more information on certification or conformance requirements, refer to the applicable standards and regulations listed for your product (e.g. the ANSI/ASSP Z359 Fall Protection codes).*

1.4 TRAINING: This equipment must be installed and used by persons trained in its correct application. These instructions are to be used as part of an employee training program as required by national, regional, or local standards. It is the responsibility of the users and installers of this equipment to ensure they are familiar with these instructions, trained in the correct care and use of this equipment, and are aware of the operating characteristics, application limitations, and consequences of improper use of this equipment.

1.5 RESCUE PLAN: When using this equipment and connecting subsystems, the employer must have a written rescue plan and the means to implement and communicate that plan to users, authorized persons, and rescuers. A trained, on-site rescue team is recommended. Team members should be provided with the equipment and techniques necessary to perform a successful rescue. Training should be provided on a periodic basis to ensure rescuer proficiency. Rescuers should be provided with these instructions. There should be visual contact or means of communication with the person being rescued at all times during the rescue process.

2.0 SYSTEM REQUIREMENTS

2.1 ANCHORAGE: Anchorage requirements vary with the Fall Protection application. The mounting structure on which the equipment is placed must meet the Anchorage specifications defined in Table 1.

2.2 CAPACITY: The user capacity of a complete Fall Protection system is limited by its lowest rated maximum capacity component. For example, if your connecting subsystem has a capacity that is less than your harness, you must comply with the capacity requirements of your connecting subsystem. See the manufacturer instructions for each component of your system for capacity requirements.

2.3 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: high heat, chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, sharp edges, or overhead materials that may fall and contact the user or equipment. Contact 3M Technical Services for further clarification.

2.4 LIFELINE HAZARDS: Ensure the lifeline is kept free from all hazards including, but not limited to: entanglement with users, other workers, moving machinery, other surrounding objects, or impact from overhead objects that could fall onto the lifeline or users.

2.5 FALL PATH AND SRD LOCKING SPEED: Do not use in applications that have an obstructed fall path. A clear path is required to lock the SRD. Working on slowly shifting materials (e.g. sand or grain), or within limited spaces, may not allow the worker to reach sufficient speed to lock the SRD.

2.6 COMPONENT COMPATIBILITY: 3M equipment is designed for use with 3M equipment. Use with non-3M equipment must be approved by a Competent Person. Substitutions made with non-approved equipment may jeopardize equipment compatibility and may affect the safety and reliability of your Fall Protection system. Read and follow all instructions and warnings for all equipment prior to use.

2.7 CONNECTOR COMPATIBILITY: Connectors are compatible with connecting elements when the size and shape of either component does not cause the connector to inadvertently open, regardless of orientation. Connectors must comply with applicable standards. Connectors must be fully closed and locked during use.

3M Connectors (snap hooks and carabiners) are designed to be used only as specified in each instruction manual. Ensure connectors are compatible with the system components to which they are connected. Do not use equipment that is non-compatible. Use of non-compatible components may cause the connector to unintentionally disengage (see Figure 3). If the connecting element to which a connector attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the connector (A). This force could then cause the gate to open (B), disengaging the connector from the connecting element (C).

2.8 MAKING CONNECTIONS: All connections must be compatible in size, shape, and strength. See Figure 4 for examples of inappropriate connections. Do not attach snap hooks and carabiners:

A. To a D-Ring to which another connector is attached.

B. In a manner that would result in a load on the gate. Large-throat snap hooks should not be connected to standard-size D-Rings or other connecting elements, unless the snap hook has a gate strength of 16 kN (3,600 lbf) or greater.

C. In a false engagement, where size or shape of the connector or connecting element is not compatible and, without visual confirmation, would seem to be fully engaged.

D. To each other.

E. Directly to webbing or rope lanyard or tie-back material, unless the instruction manuals for both the lanyard and connector specifically allow such a connection.

F. To any object whose size or shape does not allow the connector to fully close and lock, or that could cause connector roll-out.

G. In a manner that does not allow the connector to align properly while under load.

Figure 3 - Connector Compatibility

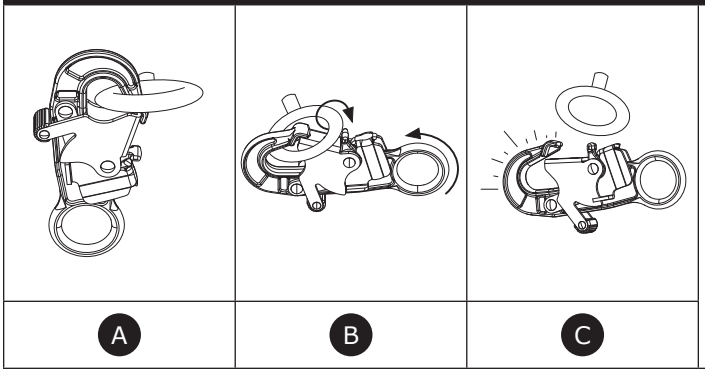
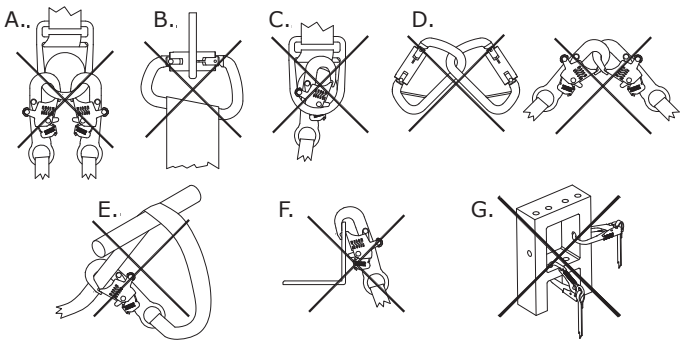


Figure 4 - Making Connections



3.0 INSTALLATION

3.1 OVERVIEW: Installing this product requires effective planning and knowledge of fall clearance requirements. In the event of a fall, there must be enough fall clearance present to safely arrest the user.

3.2 PLANNING: Plan your Fall Protection system before starting your work. Account for all factors that may affect your safety before, during, and after a fall. Consider all requirements and limitations specified in these instructions.

A. SHARP EDGES: Avoid working where system components may be in contact with, or scrape against, unprotected sharp edges and abrasive surfaces. All sharp edges and abrasive surfaces should be covered with protective material.

☑ *Only SRD-LEs may be used for applications with unprotected sharp edges or abrasive surfaces.*

3.3 FALL CLEARANCE: It is critical that the user is aware of fall clearance and its requirements before using this product.

A. DEFINITION: Fall clearance is the measure of distance between a user and the next obstruction below them. Before use of this product, the user should determine how much fall clearance is required to prevent them from striking an obstruction should they fall.

A user's **Required Fall Clearance (FC) is the sum of Free Fall (FF), Deceleration Distance (DD), Harness Stretch (HS), and a Safety Factor (SF).** See Figure 5.1 for reference.

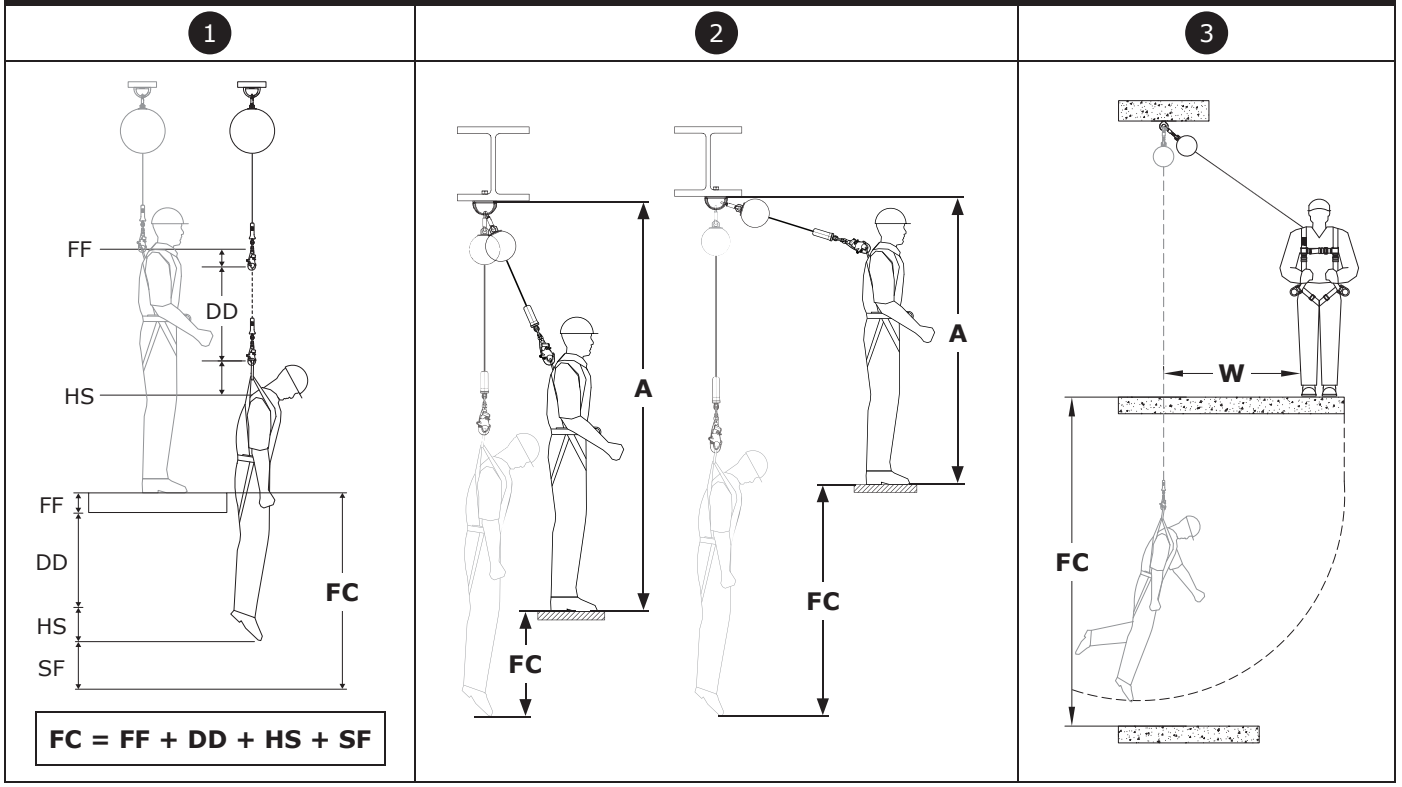
- **Free Fall (FF)** is the distance the user travels before activation of the deceleration device.
- **Deceleration Distance (DD)** is the distance the user falls measured from activation of the deceleration device until stopping.
- **Harness Stretch (HS)** is the amount of slack extending from the user's harness when the user is suspended by their harness attachment element.
- **Safety Factor (SF)** is a set amount of distance added to fall clearance to ensure user safety.

There may be additional factors affecting Required Fall Clearance within your Fall Arrest system, such as D-ring extension length and anchorage deflection. For coverage of these factors, and others not outlined above, refer to the manufacturer instructions for each component of your Fall Arrest system. Additional factors, when provided, should be added to the fall clearance values in this instruction.

B. MINIMIZING REQUIREMENTS: The user should always position their Fall Arrest system to minimize fall potential and potential fall distance. To keep fall clearance requirements to a minimum, it is recommended that the user work as directly below their anchorage point as possible.

- **ANCHORAGE HEIGHT:** The Required Fall Clearance (FC) for a user increases as Anchorage Height (A) decreases. The user experiences a greater amount of free fall when connected to an anchorage point below them, since the user will have to travel that much farther should they fall. See Figure 5.2 for reference.
- **SWING FALLS:** The Required Fall Clearance (FC) for a user increases as User Work Radius (W) increases. Swing falls occur when the anchorage point is not directly above the user when a fall occurs. See Figure 5.3 for reference. The force of striking an object during a swing fall could cause serious injury or death. Do not permit a swing fall if injury could occur.

Figure 5 - Fall Clearance Requirements



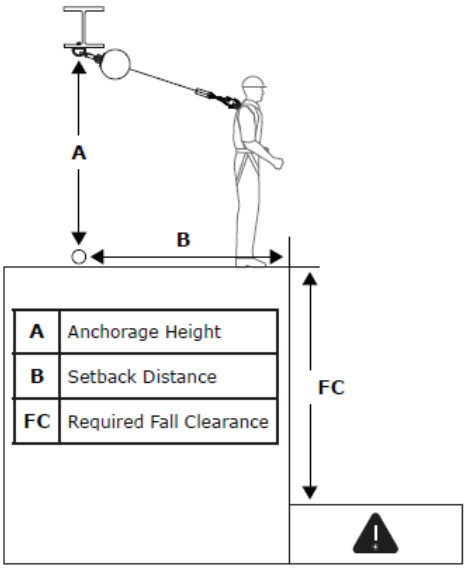
FALL CLEARANCE CHARTS

Required Fall Clearance has been provided within the charts below. To determine Required Fall Clearance:

1. Select the clearance chart that matches your product type and includes a capacity fitting your combined weight.
2. Determine the Anchorage Height (A) of your subsystem. Anchorage Height is measured from the top of the working platform to the bottom of your anchorage connection point.
3. Determine the Setback Distance (B) of your system. Setback Distance is measured from directly below your anchorage connection point to the edge of the working platform.
4. After obtaining your Anchorage Height (A) and Setback Distance (B), use (A) and (B) within the Fall Clearance Chart to determine your Required Fall Clearance (FC).

☑ *When values for (A) and (B) measured by the user do not match those listed in the table, the user should round up to the next highest listed value. If there is no higher listed value, then the user should reduce their intended Anchorage Height or Setback Distance to a lower value.*

☑ *A Safety Factor of 0.5 ft (.15 m) and a user height of 6.0 ft. (1.8 m) were used for all values listed. Kneeling or crouching will reduce effective user height and will require an additional 3.28 ft. (1.0 m) of Fall Clearance.*



SRD: 130 lb. - 420 lb. (59 kg - 190 kg)		**B**								
		0 ft. (0.0 m)	**3 ft. (0.9 m)**	**6 ft. (1.8 m)**	**9 ft. (2.7 m)**	**12 ft. (3.7 m)**	**15 ft. (4.6 m)**	**21 ft. (6.4 m)**	**27 ft. (8.2 m)**	**33 ft. (10.6 m)**
A	**<8 ft. (2.4 m)**	12 ft. (3.66 m)	14 ft. (4.27 m)							
	8 ft. (2.44 m)	6.1 ft. (1.86 m)	7.5 ft. (2.28 m)							
	10 ft. (3.05 m)	6.1 ft. (1.86 m)	7.1 ft. (2.14 m)	9.2 ft. (2.79 m)						
	15 ft. (4.58 m)	6.1 ft. (1.86 m)	6.6 ft. (2 m)	7.9 ft. (2.4 m)	9.8 ft. (2.99 m)					
	20 ft. (6.1 m)	6.1 ft. (1.86 m)	6.4 ft. (1.96 m)	7.4 ft. (2.23 m)	8.8 ft. (2.66 m)	10.6 ft. (3.21 m)				
	25 ft. (7.62 m)	6.1 ft. (1.86 m)	6.4 ft. (1.93 m)	7.1 ft. (2.14 m)	8.2 ft. (2.48 m)	9.6 ft. (2.92 m)	11.4 ft. (3.45 m)			
	30 ft. (9.15 m)	6.1 ft. (1.86 m)	6.3 ft. (1.92 m)	6.9 ft. (2.08 m)	7.8 ft. (2.36 m)	9 ft. (2.72 m)	10.4 ft. (3.17 m)			
	40 ft. (12.2 m)	6.1 ft. (1.86 m)	6.3 ft. (1.92 m)	6.7 ft. (2.02 m)	7.3 ft. (2.22 m)	8.2 ft. (2.49 m)	9.3 ft. (2.82 m)	12.1 ft. (3.68 m)		
	50 ft. (15.24 m)	6.1 ft. (1.86 m)	6.2 ft. (1.89 m)	6.5 ft. (1.98 m)	7 ft. (2.14 m)	7.7 ft. (2.35 m)	8.6 ft. (2.62 m)	10.9 ft. (3.31 m)	13.8 ft. (4.19 m)	
	60 ft. (18.29 m)	6.1 ft. (1.86 m)	6.2 ft. (1.88 m)	6.5 ft. (1.96 m)	6.9 ft. (2.09 m)	7.5 ft. (2.26 m)	8.2 ft. (2.48 m)	10.1 ft. (3.06 m)	12.5 ft. (3.81 m)	15.4 ft. (4.7 m)
	70 ft. (21.34 m)	6.1 ft. (1.86 m)	6.2 ft. (1.88 m)	6.4 ft. (1.94 m)	6.8 ft. (2.05 m)	7.2 ft. (2.2 m)	7.9 ft. (2.39 m)	9.5 ft. (2.88 m)	11.6 ft. (3.53 m)	14.2 ft. (4.31 m)
	80 ft. (24.39 m)	6.1 ft. (1.86 m)	6.2 ft. (1.88 m)	6.4 ft. (1.93 m)	6.7 ft. (2.03 m)	7.1 ft. (2.15 m)	7.6 ft. (2.32 m)	9.1 ft. (2.75 m)	10.9 ft. (3.32 m)	13.2 ft. (4 m)
	90 ft. (27.44 m)	6.1 ft. (1.86 m)	6.2 ft. (1.88 m)	6.3 ft. (1.92 m)	6.6 ft. (2.01 m)	7 ft. (2.12 m)	7.5 ft. (2.26 m)	8.7 ft. (2.65 m)	10.4 ft. (3.15 m)	12.4 ft. (3.77 m)
		FC								

3.4 CONNECTING TO ANCHORAGE: Figure 7 illustrates typical SRD anchorage connections. The Anchorage (A) should be directly overhead to minimize free fall and swing fall hazards (see Section 3.3.B). Select an anchorage capable of sustaining the static loads defined in Table 1. Depending on system and product configuration, the user may secure the Top Connector (B) of the SRD directly to the anchorage structure or to an anchorage connector or anchorage connection point between.

3.5 CONNECTING TO A HARNESS: Connection of the SRD to a harness will vary per the harness and which attachment element is used. See Figure 8 for reference. To secure, connect the Bottom Connector (A) of the SRD to the Attachment Element (B) of the full body harness. For more information as to which attachment elements may be used, see the manufacturer instructions of your harness.

☑ *The "Product Overview" specifies for which Fall Protection applications your SRD model may be used. Ensure use of your harness complies with these requirements. A full body harness is required for Fall Arrest applications.*

Figure 7 - Connecting to Anchorage

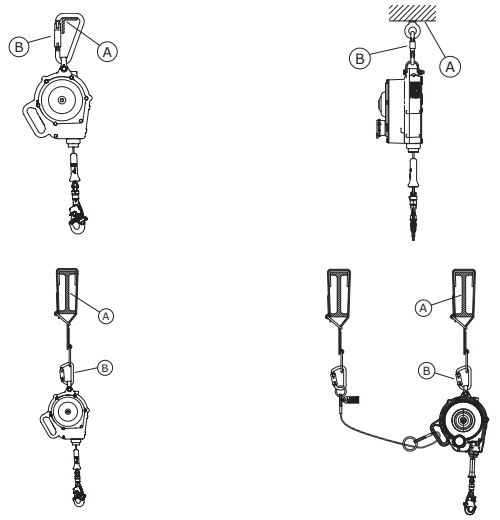
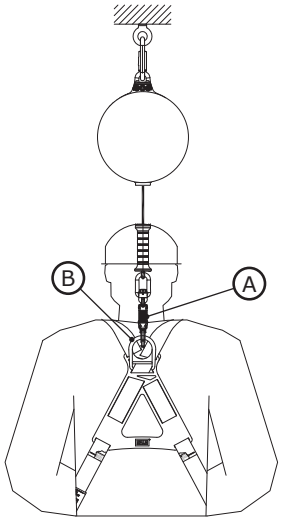


Figure 8 - Connecting to a Harness



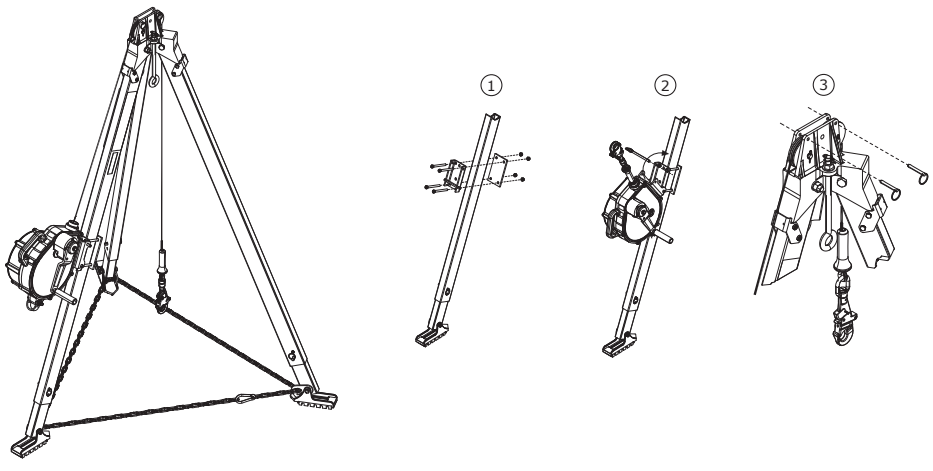
3.6 TRIPOD MOUNTING: Figure 9 illustrates installation of the Sealed Blok SRD-R on a DBI-SALA Tripod. The SRD-R is mounted on a leg of the Tripod, and the Lifeline is routed through a Pulley System on the Head of the Tripod:

1. **Secure the Quick Mount Bracket on the leg of the Tripod:** Assemble the Quick Mount Bracket around the Upper Tube of the Tripod Leg. Position the Quick Mount Bracket at least 12 in (30 cm) above the Locking Pin on the Tripod Leg and then tighten the mounting bolts to 15 ft-lbs (20 Nm). Do not overtighten the bolts.

   ☑ *Never mount the Quick Mount Bracket on the Lower (Telescoping) Tube of the Tripod Leg.*

2. **Secure the SRD Mounting Bracket on the Quick Mount Bracket:** Position the notches in the SRD Mounting Bracket over the Rod Ends protruding from the Quick Mount Bracket and then pivot the SRD toward the Tripod Leg until the holes in the SRD Mounting Bracket align with the holes in the Quick Mount Bracket. Insert the Mounting Pin through the holes in the SRD Mounting Bracket and Quick Mount Bracket.
3. **Route the SRD Lifeline over the Tripod Head Mount Pulleys:** Remove the two Retainer Pins from the Head Mount. Position the SRD Lifeline cable in the grooves in the two Head Mount Pulleys. Reinsert the Retainer Pins through the Head Mount.

Figure 9 - Tripod Mounting



4.0 USE

4.1 BEFORE EACH USE: Verify that your work area and Fall Protection system meet all criteria defined in these instructions. Verify that a formal Rescue Plan is in place. Inspect the product per the 'User' inspection points defined in the "Inspection and Maintenance Log". If inspection reveals an unsafe or defective condition, or if there is any doubt about its condition for safe use, remove the product from service immediately. Clearly tag the product "DO NOT USE". See Section 5 for more information.

4.2 AFTER A FALL: If this equipment is subjected to fall arrest or impact force, remove it from service immediately. Clearly tag it "DO NOT USE". See Section 5 for more information.

4.3 OPERATION: Before using an SRD, the worker will need to secure the SRD to an anchorage connection point and an attachment element on their full body harness. Once secured, the worker may move within the established safe working area at normal speeds. During use, always allow the SRD lifeline to recoil back into the device under control.

4.4 TAGLINES: Depending on the worksite and system configuration, the user may not always be able to reach the SRD at its anchor point. In these situations, a tagline may be necessary. A tagline is a long piece of cord that loops through the bottom connector of the SRD before looping back in on itself. When connected in this way, the user can raise or lower the bottom connector of the SRD to their location by pulling on the tagline.

☑ *Ensure the free end of the tagline does not become entangled with other workers, equipment, or machinery. If necessary, restrain the free end of the tagline.*

4.5 USE WITH HORIZONTAL SYSTEMS: The SRDs covered in this instruction are compatible for use with horizontal systems, such as Horizontal Lifeline (HLL) systems and horizontal rail systems. See the manufacturer instructions of your horizontal system for more information on its compatibility with SRDs. SRDs may be used with a horizontal system only if both products allow for such use.

☑ *Required Fall Clearance values presented in these instructions are based on use with a rigid, stationary anchorage point. These values do not apply when the product is used with a Horizontal Lifeline (HLL) system. See the manufacturer instructions of your HLL system for fall clearance charts specific to that system, or for additional factors that must be accounted for before using the charts in these instructions.*

4.6 RETRIEVAL OPERATION: The Retrieval Crank of an SRD-R may be used to raise or lower a suspended worker. To use the Retrieval Crank, you must first engage Retrieval mode, then rotate the Crank. See Figure 10 for reference. To activate Retrieval mode and use the Retrieval Crank:

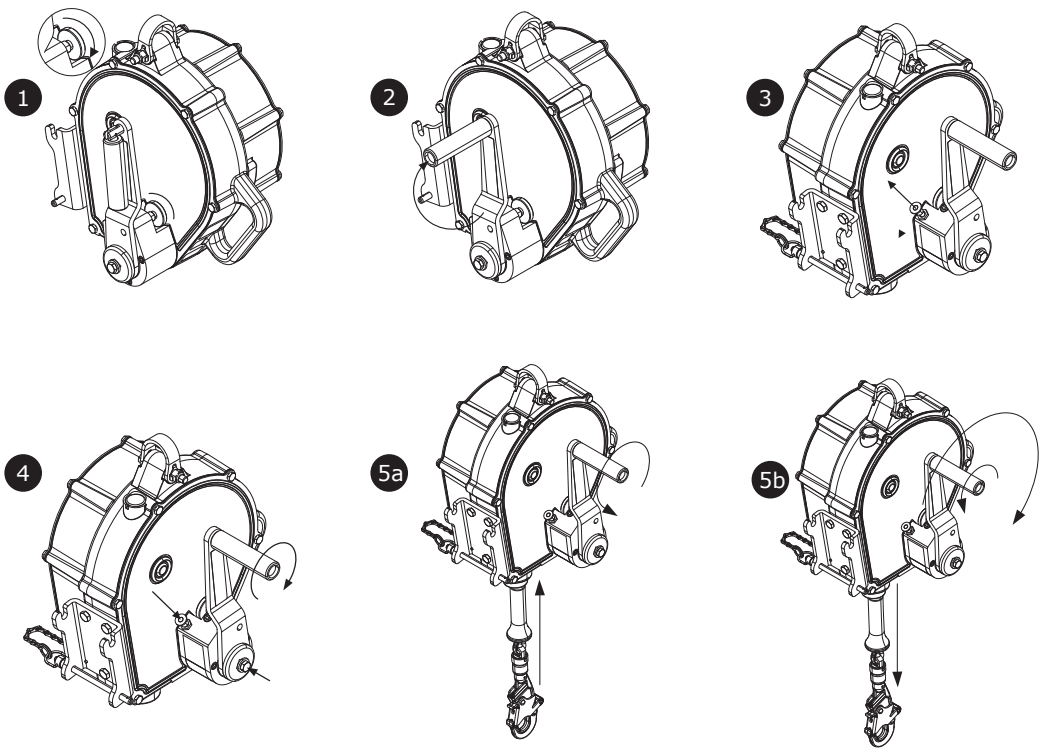
1. Release the Retrieval Crank.
2. Flip the Crank Handle out from the SRD body into its engaged position.
3. Pull and hold the shift knob in the unlocked position.
4. Push the Crank Arm in and release the shift knob to engage Retrieval mode. If needed, rotate the Crank Arm clockwise to help engage the gear.
5. Turn the Retrieval Crank to either raise or lower the suspended worker.
   A. To raise: Turn the Retrieval Crank counterclockwise.
   B. To lower: First, turn the Retrieval Crank counterclockwise to release the fall arrest brake. Then, turn the Retrieval Crank clockwise to lower.

☑ *Do not attempt to operate Retrieval mode when the lifeline is fully retracted. Stop turning the crank as soon as the lifeline is fully retracted or extended.*

☑ *The Rescue Crank is for Rescue applications only. Do not use for any other purpose.*

☑ *3M SRD-Rs do not incorporate an overload clutch to limit forces exerted on the drive components and attached person. Avoid line slack while in Retrieval mode. If the attached worker becomes entangled on an obstruction during retrieval, ensure that the worker is not subjected to excessive force from continued lifting.*

Figure 10 - Retrieval Operation



4.7 RETRIEVAL DISENGAGEMENT: The SRD-R should always be disengaged from Retrieval mode after use. To disengage Retrieval mode:

☑ *When Retrieval mode is disengaged, the lifeline should fully retract into the SRD housing. To avoid possible injury, either maintain control of the lifeline or retract the lifeline before disengaging.*

1. Remove any load from the lifeline.
2. Pull and hold the shift knob in the unlocked position.
3. Pull the Crank Arm out to disengage, then release the shift knob.
4. Pull out and rotate the Crank Handle down toward the SRD body into its stowed position.
5. Engage the Locking Thumb Screw into the Crank Arm body.

4.8 USING THE RSQ™ DESCENT KNOB: Some product models are equipped with an RSQ Descent Knob. The RSQ Descent Knob allows users to switch their product between fall arrest and descent modes.

- **Fall Arrest Mode:** In fall arrest mode, the product arrests the user's fall and keeps the user suspended.
- **Descent Mode:** In descent mode, the product controls the descent rate of the user to allow them to descend to a lower level after a fall occurs.

See Figure 11 for reference. To switch the descent knob between the two modes:

1. Pull the descent knob outwards. This will immediately engage descent mode.

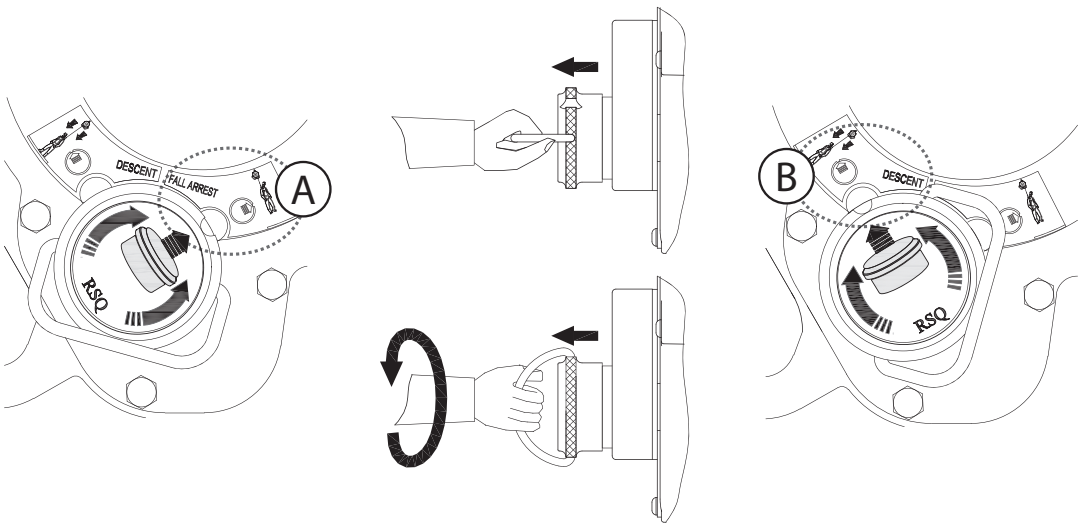
   ☑ *Never switch to descent mode while a user is secured unless that user is ready to descend.*

2. Rotate the descent knob until the arrow points to the selected mode, Fall Arrest (A) or Descent (B), and the knob clicks into the place. Releasing the knob will set the product to that mode.

   ☑ *The product will remain in descent mode unless the knob is set to fall arrest mode. All positions outside fall arrest mode are descent mode, including when the knob is pulled outwards and when it is set to a neutral position.*

   ☑ *No more than 120 lbf (0.53 kN) of force should be used to release the descent knob from fall arrest mode.*

Figure 11 - Using the RSQ Descent Knob



4.9 **DESCENT APPLICATIONS:** Product models with an RSQ Descent Knob may be used to lower users to a lower level or platform for rescue or escape. Descent may be initiated by the user or by an attendant, depending on the situation.

☑ *This product is designed for emergency fall arrest and descent. It may only be used for a single vertical descent. If the product is used for descent, remove it from service immediately.*

☑ *See "Descent Energy Rating" for more information about how product use is calculated.*

A. **DESCENT KNOB:** Descent may be initiated by setting the descent knob at descent mode. Alternatively, descent mode may be temporarily engaged from fall arrest mode by simply pulling the knob outwards, then releasing the knob at fall arrest mode when the user has finished descending.

☑ *For more information on switching between descent modes, see "Using the RSQ Descent Knob".*

B. **ASSISTED RESCUE POLE:** In situations where the descent knob is out of reach, the rescue pole (3500201, 3500202) may be used to initiate descent. See Figure 12 for reference. To initiate descent mode:

1. Insert the descent knob within the mouth of the rescue pole, so that the knob is between the two fork prongs.

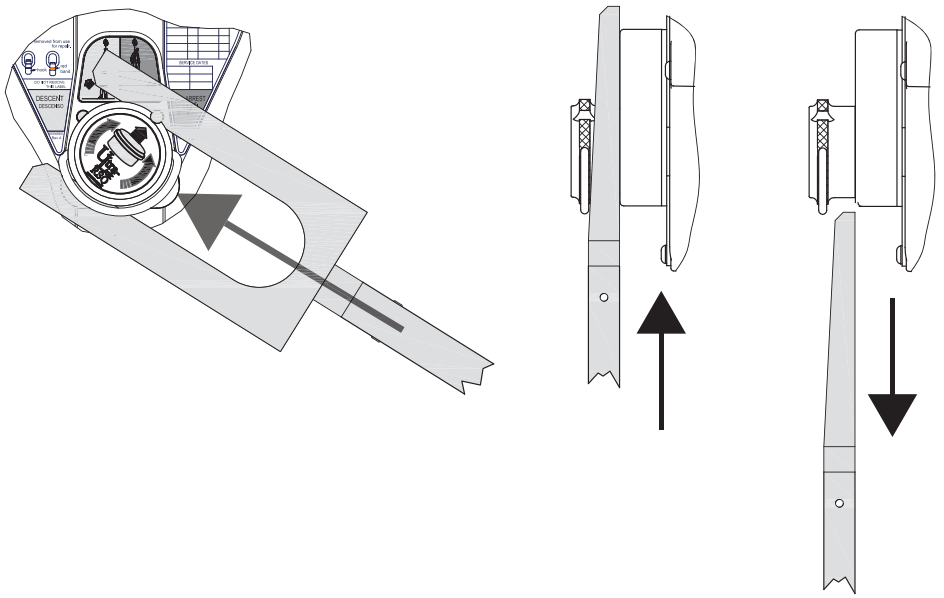
   ☑ *The rescue pole must be straight when inserting the descent knob. If the rescue pole is angled, it could damage the descent knob.*

2. Push the rescue pole forward until the descent knob is fully lodged within the pole's fork. This will cause the fork to pull the knob outwards and initiate descent.

   ☑ *The fork will naturally engage the descent knob because of its shape. Do not attempt to pry the knob.*

   ☑ *Releasing the descent knob will set the knob at its indicated position. If the knob has been pulled out from fall arrest mode, it will re-engage fall arrest mode upon release, as long as the knob has not been rotated.*

Figure 12 - Assisted Rescue Pole



☑ *This product must be removed from service after the maximum number of descents is reached.*

☑ *The maximum descent distance for the product is equal to its total lifeline length.*

Maximum Descent Energy Rating				
Applicable Standard	**Product Model Length**	**Number of Descents**	**Number of Users**	**Maximum Descent Energy Rating**
ANSI Z359.4-2013	50 ft. (15.2 m)	Single	One user	15,500 ft-lb. (21,015 J)
ANSI Z359.4-2013	85 ft. (25.9 m)	Single	One user	26,350 ft-lb. (35,726 J)

Explanation of Descent Energy Rating

The Descent Energy Rating is a calculable measure of wear on the product. Descent Energy Rating is influenced by user weight, descent height, the number of previous descents, and the number of simultaneous users. The Maximum Descent Energy Rating is the maximum allowable Descent Energy Rating for your product. If the product exceeds this rating, then it must be removed from service immediately.

At any time, the Descent Energy Rating of your product must not exceed its applicable value. Descent Energy Rating can be calculated with the following equation:

$$E = W \times H \times N$$

Where "E" is the Descent Energy Rating in foot-pounds (ft-lb), "W" is the User Weight in pounds (lb.), "H" is the Descent Height in feet (ft.), and "N" is the total number of descents your product has experienced.

If, at any time, your product has a Descent Energy Rating (E) equal to or greater than its maximum, then the product must be removed from service immediately and marked "DO NOT USE".

For metric units, the following equation should be used instead:

$$E = W \times H \times N \times G$$

Where "E" is the Descent Energy Rating in joules (J), "W" is the User Weight in kilograms (kg), "H" is the Descent Height in meters (m), "N" is the total number of descents your product has experienced, and "G" is the acceleration due to gravity (9.81 m/s^2).

5.0 INSPECTION

☑ *After equipment has been removed from service, it may not be returned to service until a Competent Person confirms in writing that it is acceptable to do so.*

5.1 INSPECTION FREQUENCY: The product shall be inspected before each use by a user and, additionally, by a Competent

Person other than the user at intervals of no longer than one year. A higher frequency of equipment use and harsher conditions may require increasing the frequency of Competent Person inspections. The frequency of these inspections should be determined by the Competent Person per the specific conditions of the worksite.

5.2 INSPECTION PROCEDURES: Inspect this product per the procedures listed in the "Inspection and Maintenance Log". Documentation of each inspection should be maintained by the owner of this equipment. An inspection and maintenance log should be placed near the product or be otherwise easily accessible to users. It is recommended that the product is marked with the date of next or last inspection.

5.3 DEFECTS: If the product cannot be returned to service because of an existing defect or unsafe condition, then the product must be either destroyed or sent to 3M or a 3M-authorized service center for repair.

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

6.0 MAINTENANCE, STORAGE, AND REPAIR

☑ *Equipment that is in need of maintenance or scheduled for maintenance should be tagged "DO NOT USE". These equipment tags should not be removed until maintenance is performed.*

6.1 CLEANING: Cleaning procedures for the Self-Retracting Device are as follows:

- Periodically clean the exterior of the SRD using water and a mild soap solution. Position the SRD so excess water can drain out. Clean labels as required.
- Clean lifeline with water and mild soap solution. Rinse and thoroughly air dry. Do not force dry with heat. An excessive buildup of dirt, paint, etc. may prevent the lifeline from fully retracting back into the housing causing a potential free fall hazard. Replace lifeline if excessive buildup is present.

6.2 DISPOSAL: Cut or otherwise disable the lifeline, then dispose of the product appropriately.

6.3 REPAIR: Only 3M or parties authorized in writing by 3M may make repairs to this equipment. Do not attempt to disassemble the SRD or lubricate any parts.

☑ *Fast-Line Lifelines can be replaced in the field by a Competent Person. See Table 1 for the required Fast-Line Lifeline Replacement Kit. Install the lifeline per the instructions in the Service Manual (5903076) include with the Fast-Line kit. Always perform a complete Competent Person inspection after replacing the Fast-Line Lifeline. Additional service, determined from the Competent Person inspection, must be completed by an authorized service center.*

6.4 STORAGE AND TRANSPORT: Store and transport the product in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect components after extended storage.

6.5 FAST-LINE LIFELINE REPLACEMENT: If inspection reveals that the impact indicator on your snap hook is visible, then the SRD must be removed from service. To return the SRD to service, you may send it to an authorized service center for repair or you may replace the SRD snap hook and lifeline with a compatible Fast-Line model. To perform this replacement, see the Fast-Line lifeline replacement instructions (5903076).

☑ *See Figure 1 for which Fast-Line models are compatible with your product model.*

☑ *A Fast-Line lifeline replacement only fixes an activated snap hook. If your SRD model has failed other areas of inspection, then it must be destroyed or sent to an authorized service center for repair.*

7.0 LABELS and MARKINGS

7.1 LABELS: Figure 12 illustrates labels present on the SRD. Labels must be replaced if they are not present or are not fully legible. Information provided on each label is as follows:

☑ *Label images are intended to be representative. Please refer to your product labels for specific information.*

A	Lifeline length label (varies with model)
B	Product information label
C	In order from top to bottom: Serial Number, Model Number, Date Manufactured, Lot Number, Service Dates
D	Retrieval operation label
E	Retrieval operation label
F	RSQ label
G	RSQ operation label
H	Product identification label
I	Product information label
J	Retrieval operation label

Description	**Applies To**
Lifeline length label (varies with model)	All models
Product information label	50 ft. models
Product identification label	SRD models and SRD-R models without RSQ function
Retrieval operation label	SRD-R models
Retrieval operation label	SRD-R models
RSQ label	SRD-R models with RSQ function only
RSQ operation label	SRD-R models with RSQ function only
Product identification label	SRD-R models with RSQ function only
Product information label	85 ft. models
Retrieval operation label	SRD-R models with RSQ function only

8.0 RFID Tag

8.1 LOCATION: 3M product covered in these user instructions is equipped with a Radio Frequency Identification (RFID) Tag. RFID Tags may be used in coordination with an RFID Tag Scanner for recording product inspection results. See Figure 11 for where your RFID Tag is located.

8.2 DISPOSAL: Prior to disposing of this product, remove the RFID Tag and dispose/recycle in accordance with local regulations. For more information, please visit our website: *http://www.3M.com/FallProtection/RFID*

9.0 GLOSSARY OF TERMS

9.1 DEFINITIONS: The following terms and definitions are used in these instructions.

☑ *For a comprehensive list of terms and definitions, please visit our website: www.3m.com/FallProtection/ifu-glossary*

- **AUTHORIZED PERSON:** A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.
- **COMPETENT PERSON:** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.
- **FALL ARREST SYSTEM:** A collection of Fall Protection equipment configured to protect the user in the event of a fall.
- **QUALIFIED PERSON:** A person with a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience has successfully demonstrated their ability to solve or resolve problems relating to Fall Protection and Rescue systems to the extent required by applicable national, regional, and local regulations.
- **RESCUER:** A person using the Rescue system to perform an assisted rescue.
- **RESTRAINT SYSTEM:** A collection of Fall Protection equipment configured to prevent the user from reaching a fall hazard. No free fall is permitted.
- **USER:** A person who performs activities while protected by a Fall Protection system.

Figure 11 - RFID Tag Location

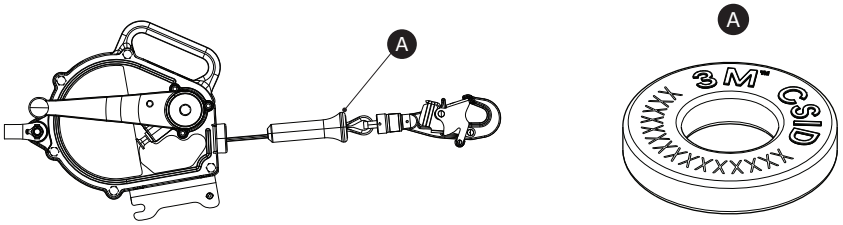


Figure 12 - Product Labels

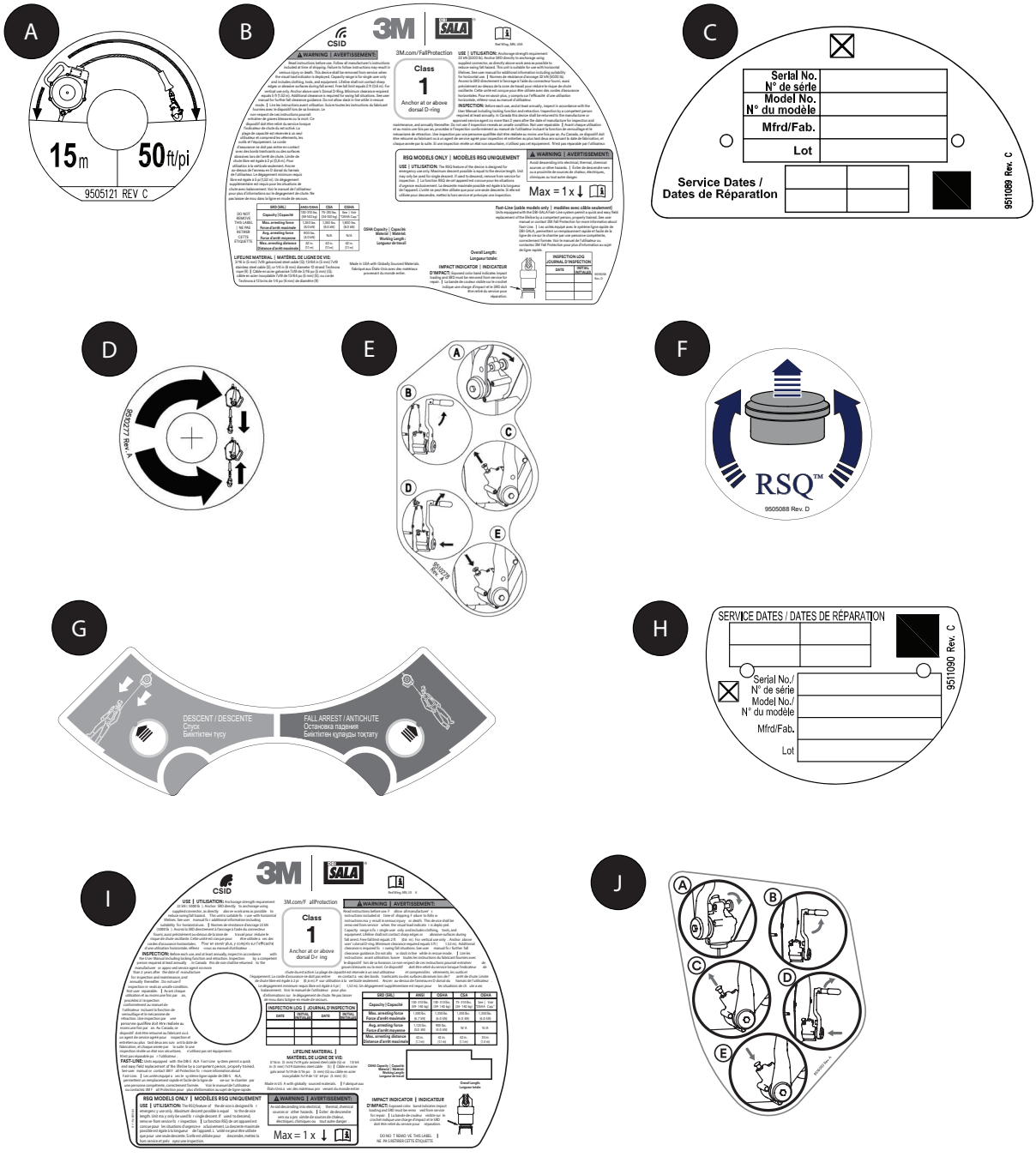


Table 2 – Inspection and Maintenance Log

Model Number (Serial Number):	
Date Purchased:	**Date of First Use:**
...	
☑ *This product must be inspected by the user before each use. Additionally, a Competent Person other than the user must inspect this equipment at least once each year.*	
...	

Component	**Inspection Procedure**	**Inspection Result**	
		Pass	**Fail**
SRD - General (Figure 13.1)	Inspect for loose bolts and bent or damaged parts.	☐	☐
	Inspect Housing (A) for distortion, cracks, or other damage.	☐	☐
	Inspect the Swivel Eye (B) for distortion, cracks, or other damage. The Swivel Eye should be attached securely to the SRD, but should pivot freely.	☐	☐
	The Lifeline (C) should pull out and retract fully without hesitation or creating a slack line condition.	☐	☐
	Ensure device locks up when lifeline is jerked sharply. Lockup should be positive with no slipping.	☐	☐
	Look for signs of corrosion on the entire unit.	☐	☐
Connectors (Figure 13.2)	Inspect all SRD connectors for signs of damage and corrosion. Verify that all connectors are working properly. Where present: Gates (A) should open, close, lock, and unlock properly; Swivel Eyes (B) should rotate without interference; and locking buttons and pins should function correctly.	☐	☐
Swivel Snap Hook and Impact Indicator (Figure 13.3)	Inspect the Impact Indicator. If a red band is shown and the swivel does not turn freely, then impact loading has occurred and the SRD must be removed from service. Do not attempt to reset the Impact Indicator. Return the SRD to an authorized service center for resetting.	☐	☐
	☑ *If your product fails only this inspection step, you may return the SRD to service by replacing the snap hook and lifeline with a compatible Fast-Line model. See Section 6 for more information.*		
Reserve Lifeline (Figure 13.4)	Inspect the reserve lifeline payout. Pull the lifeline out of the SRD until it stops. If a Warning Label or Red Band (X) is visible, the reserve lifeline is spent and the unit must be serviced by an authorized service center before reuse.	☐	☐
Wire Rope Lifeline (Figure 14)	Inspect wire rope for cuts, Kinks (A), Broken Wires (B), Bird-Caging (C), welding splatter, corrosion, chemical contact areas, or Severely-Abraded Areas (D). Slide the Lifeline Bumper (E) up and inspect the Ferrules (F) for damage. Replace the wire rope assembly if there are six or more broken wires in one revolution, or three or more broken wires in one strand in one revolution. Replace the assembly if there are any broken wires within 25 mm (1 in.) of the ferrules.	☐	☐
Retrieval Integral Rescue Hand Crank (Figure 15)	Inspect the Crank Arm (A) for distortion or other damage. Ensure that the Retrieval Handle (B) can be folded out and secured in the cranking position. Ensure the Retrieval Shift Knob (C) can be pulled out to the unlocked position and then released, locking the Crank Arm in both the engaged and disengaged positions.Test the retrieval feature for proper operation by raising and lowering a test weight of at least 75 lb. (34 kg). When the Retrieval Handle is released, the weight should not move and the Retrieval Handle should remain in position (no movement). A clicking sound should be audible when raising the load.	☐	☐
RSQ Descent Knob	A hand pull test should be performed on the descent knob. First, set the descent knob to descent mode. Then, grasp the lifeline and pull firmly to engage the descent mechanism. The person inspecting should pull out approximately 3 ft. (1 m) of the lifeline and must confirm that steady resistance is felt while pulling the lifeline.	☐	☐
Labels (Figure 12)	All labels are present and fully legible.	☐	☐
Fall Protection Equipment	Additional Fall Protection equipment that is used with the product is installed and inspected per the manufacturer instructions.	☐	☐

...					
☑ *If the product fails an inspection procedure, then the product fails overall inspection. If the product fails inspection, remove it from service immediately. Clearly tag the product "DO NOT USE". See Section 5 for more information.*					
...					
Inspection Type:	☐ User	☐ Competent Person	**Overall Inspection Result:**	☐ Pass	☐ Fail
Inspected By:			**Date of Inspection:**		
Signature:			**Next Inspection Due:**		
...					
Additional Notes:					

Figure 13- General Inspection

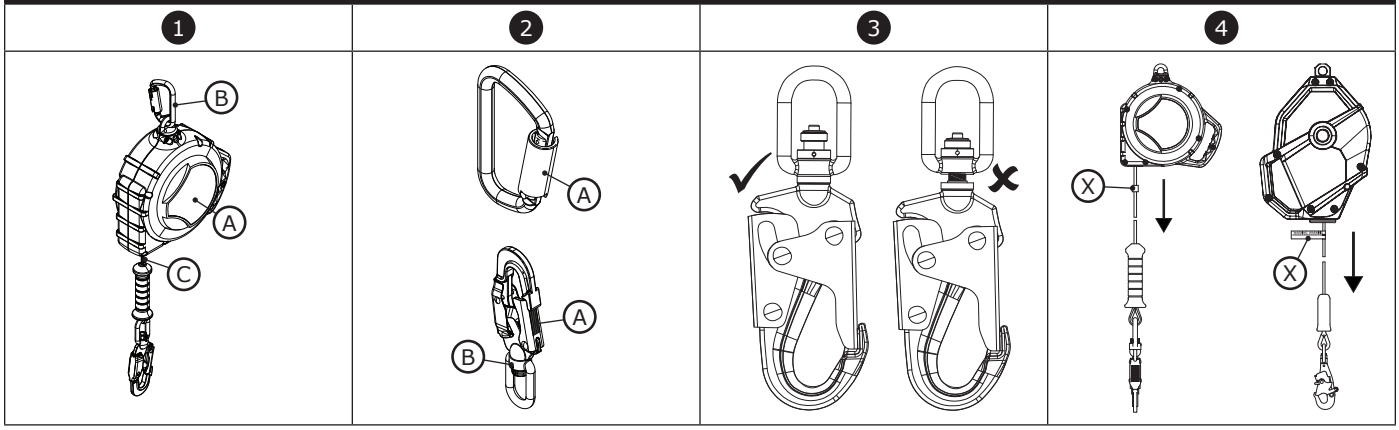


Figure 14 - Wire Rope Lifeline

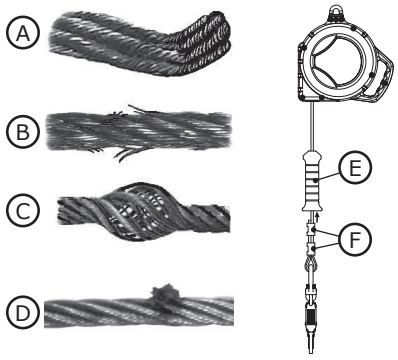
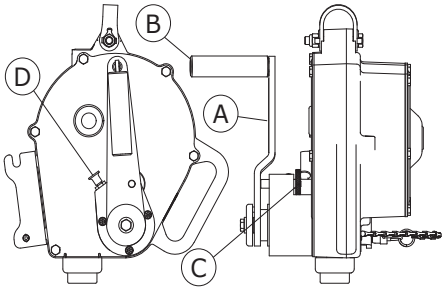


Figure 15 - SRD-R Inspection



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This warranty applies only to the original purchaser and is the only warranty applicable to 3M's fall protection products. Please contact 3M's customer service department in your region for assistance.

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