

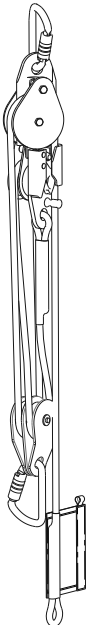
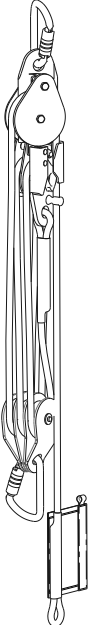


Fall Protection

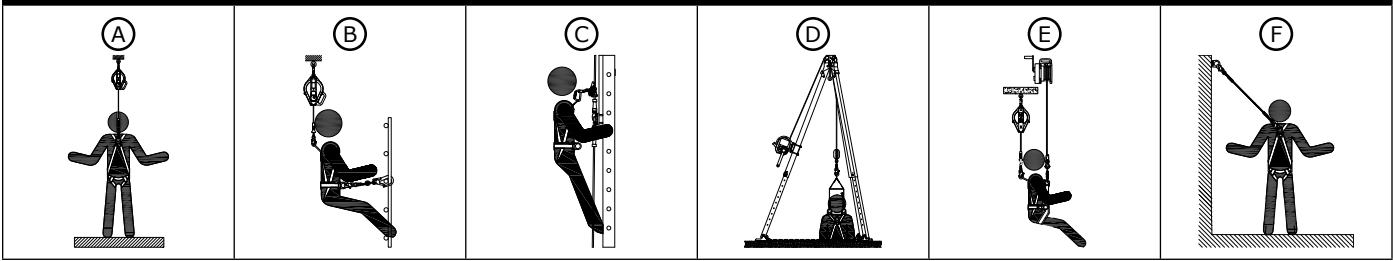
Certified to	Certified by
ANSI Z359.4 : 2013	PRODUCT CERTIFICATION 
NFPA 1983 : 2017 Lic. BMP 689957	BSI Certified Product

DBI SALA ROLLGLISS TECHNICAL RESCUE
Riggersmate Hauling Kits
USER INSTRUCTION MANUAL

1

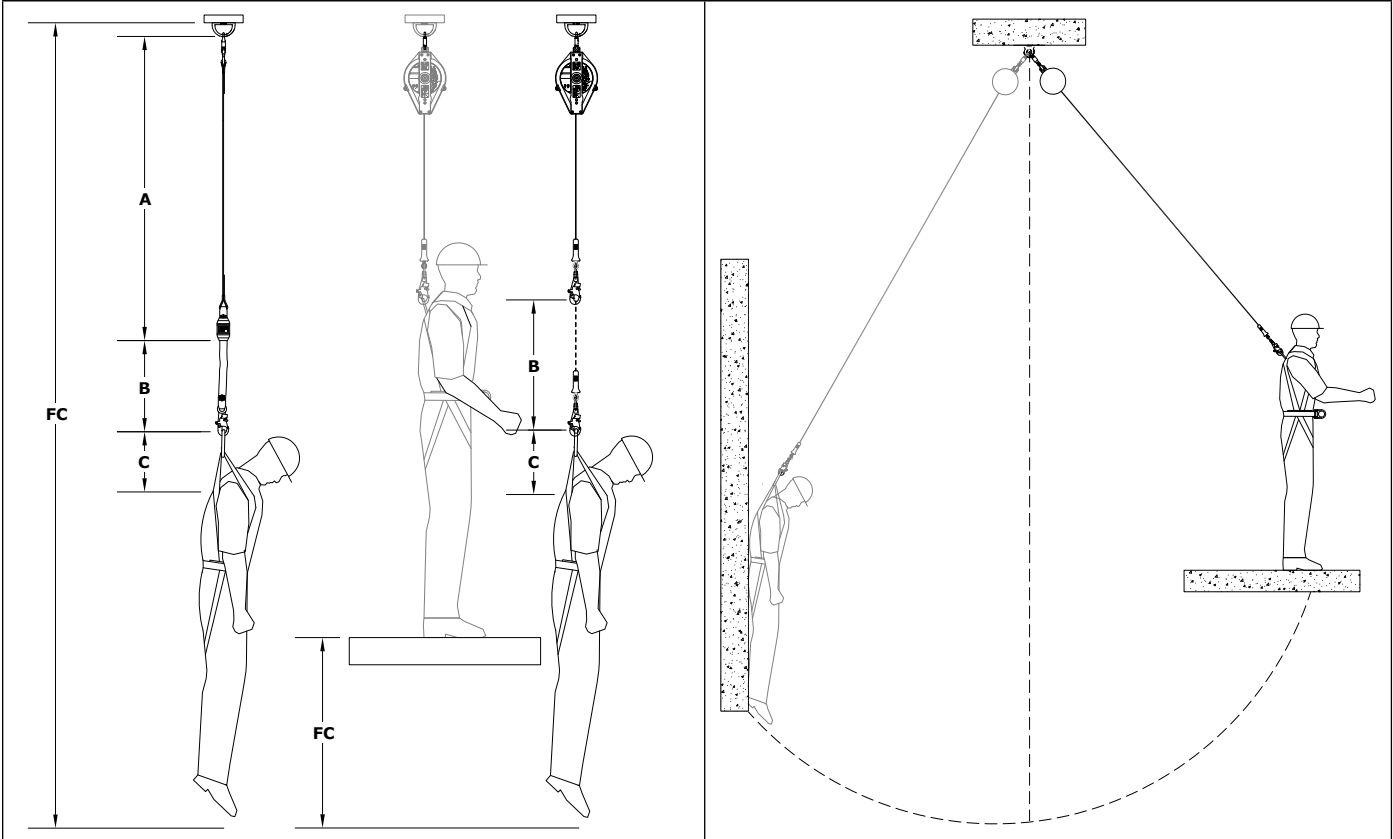
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		1	2	3	
		Part Number			
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		8704105	15	75	4:1
		8704106	20	100	4:1
		8704107	30	150	4:1
		8704108	40	200	4:1
		8704109	50	250	4:1
		8705103	2	14	6:1
		8705104	10	70	6:1
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2



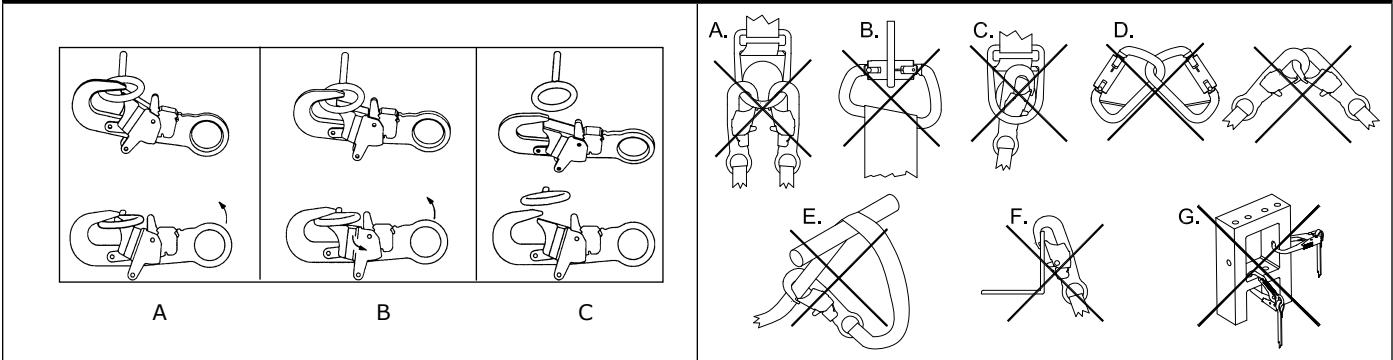
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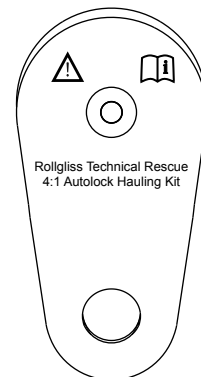
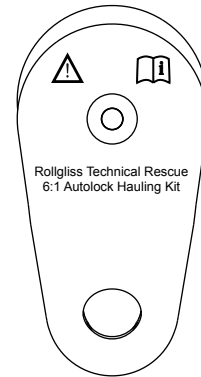
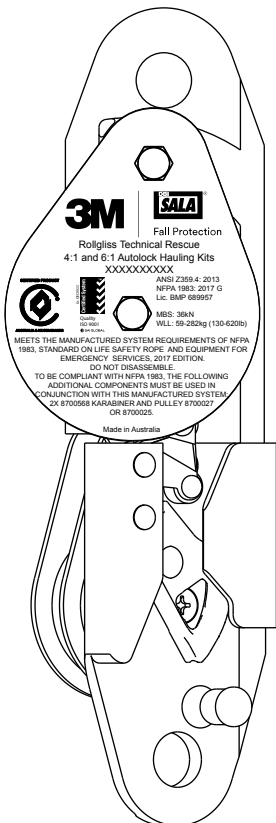
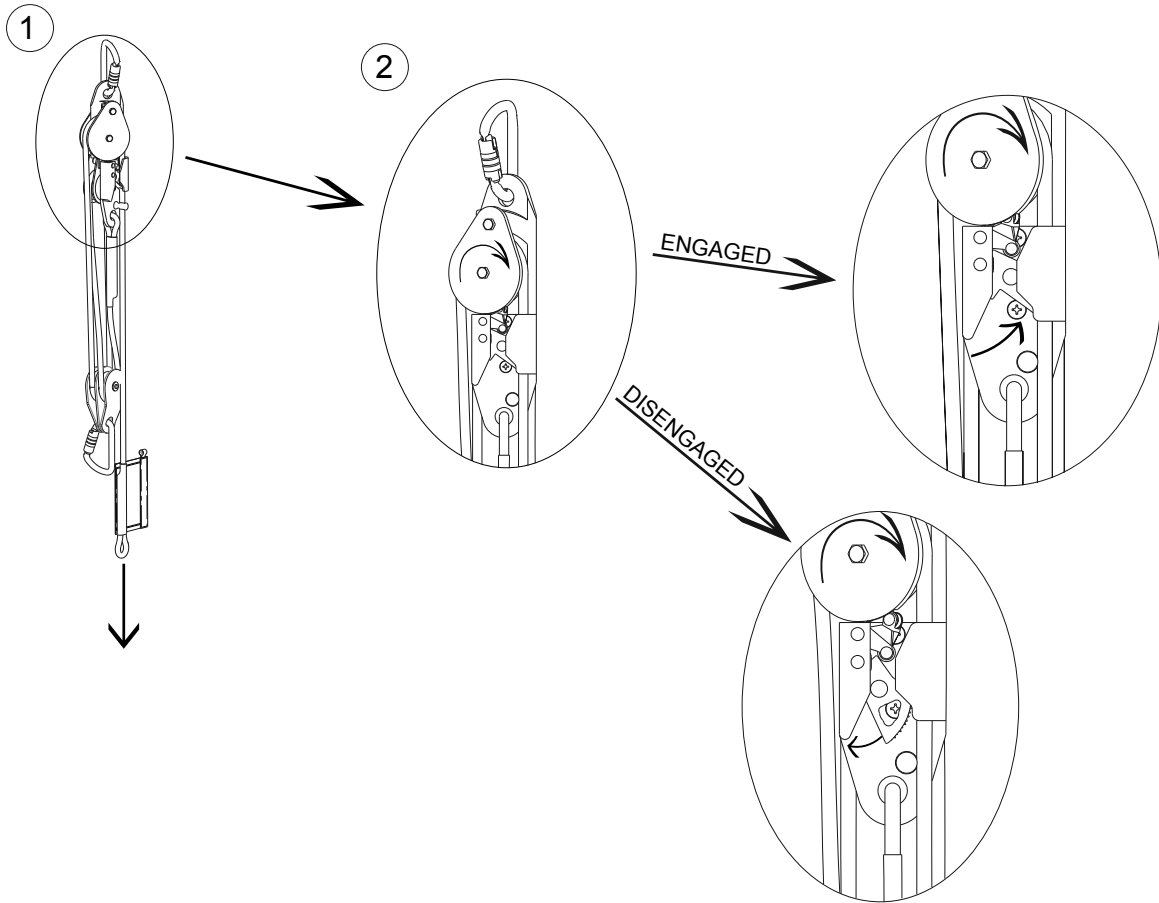
4



5

6







Fall Protection

3M Australia Pty Limited

Part No.:

Standard: NFPA 1983

3M.com.au/FallProtection

DESCRIPTION

ID :

Inspect prior to use as per the manufacturer's instruction

Manufacturer's instruction shall be followed at all times

95 Derby St, Silverwater, 2128, NSW Australia

S/No.:



F/Order No.:

D.O.M.:

Destroy Before:

SAFETY INFORMATION

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

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

Intended Use:

This Pre-Engineered Rescue System is intended for use as part of a complete personal fall protection and/or rescue system.

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

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

WARNING

This Pre-Engineered Rescue System is intended for use as part of a complete personal fall protection and/or rescue system. It is expected that all users be fully trained in the safe installation and operation of their Pre-Engineered Rescue System. **Misuse of this system could result in serious injury or death.** For proper selection, operation, installation, maintenance, and service, refer to these User Instructions and all manufacturer recommendations, see your supervisor, or contact 3M Technical Service.

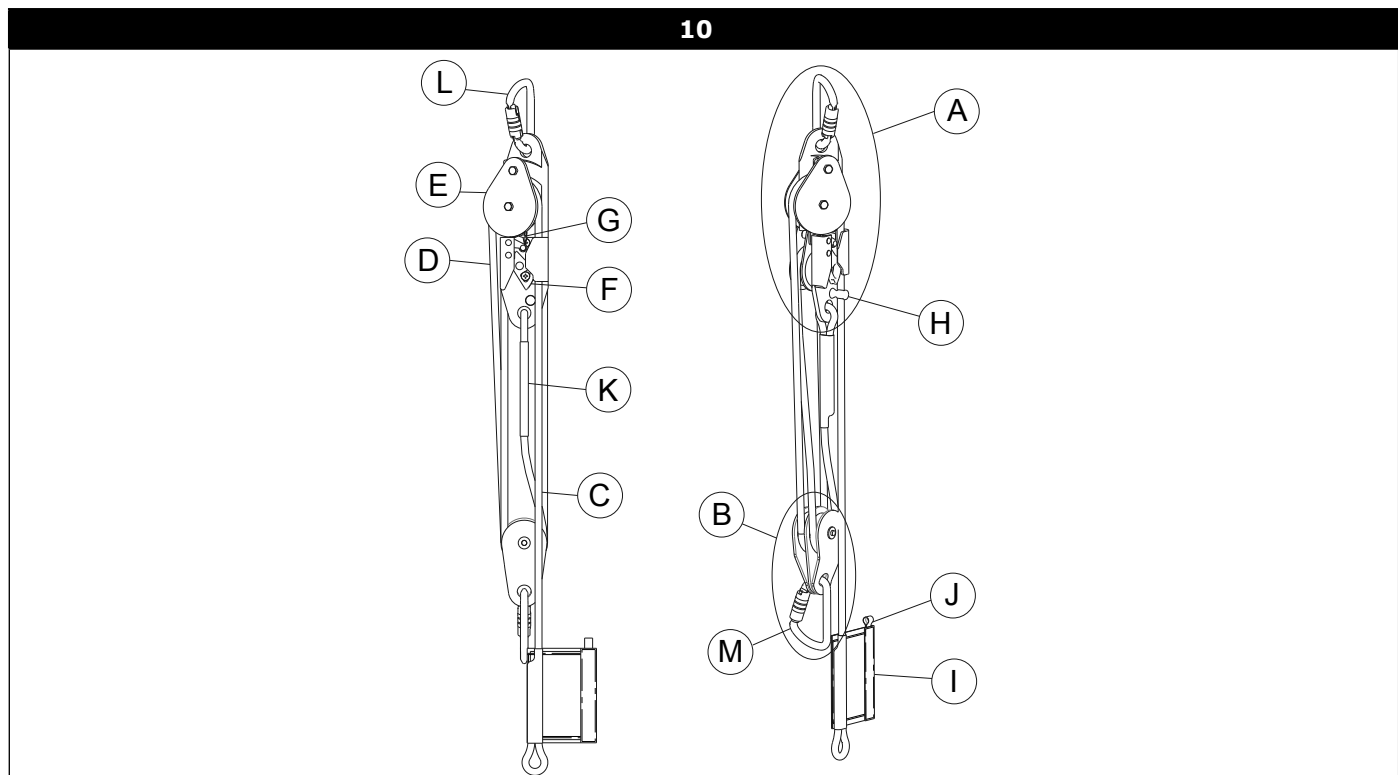
- **To reduce the risks associated with working with a Pre-Engineered Rescue System which, if not avoided, could result in serious injury or death:**
 - Inspect the system before each use and at least annually. Inspect in accordance with the User Instructions.
 - If inspection reveals an unsafe or defective condition in the device or a component of the device, remove the device from service and repair or replace according to the User Instructions.
 - Label the system 'UNUSABLE' and immediately remove the system from service if it has been subjected to fall arrest or impact force. Inspect and handle the system according to the User Instructions.
 - Ensure the rescue system and lifeline are kept free from all obstructions including, but not limited to, entanglement with other workers, yourself, and surrounding objects.
 - Follow all manufacturer recommendations when connecting a lifeline.
 - When performing rescue operations, always utilize fall protection safety measures as determined by your workplace rescue plan.
 - Do not touch parts of devices exposed to high friction during or after long descents, as these parts may get hot and cause burns.
 - Ensure proper edge protection is used if the lifeline may contact sharp edges or corners.
 - Ensure a clear descent path, and that the landing area is clear of any obstructions or hazards that you may contact.
 - Ensure that systems/subsystems assembled from components made by different manufacturers are compatible and meet the requirements of applicable standards, including the ANSI Z359 or other applicable fall protection codes, standards, or requirements. Always consult a Competent and/or Qualified Person before using these systems.
- **To reduce the risks associated with working at height which, if not avoided, could result in serious injury or death:**
 - Ensure your health and physical condition allow you to safely withstand all of the forces associated with working at height. Consult with your doctor if you have any questions regarding your ability to use this equipment.
 - Never exceed allowable capacity of your fall protection equipment.
 - Never exceed maximum free fall distance of your fall protection equipment.
 - Do not use any fall protection equipment that fails pre-use or other scheduled inspections, or if you have concerns about the use or suitability of the equipment for your application. Contact 3M Technical Services with any questions.
 - Some subsystem and component combinations may interfere with the operation of this equipment. Only use compatible connections. Consult 3M prior to using this equipment in combination with components or subsystems other than those described in the User Instructions.
 - Use extra precautions when working around moving machinery (e.g. top drive of oil rigs) electrical hazards, extreme temperatures, chemical hazards, explosive or toxic gases, sharp edges, or below overhead materials that could fall onto you or the fall protection equipment.
 - Use Arc Flash or Hot Works systems when working in high heat environments.
 - Avoid surfaces and objects that can damage the user or equipment.
 - Ensure there is adequate fall clearance when working at height.
 - Never modify or alter your fall protection equipment. Only 3M or parties authorized in writing by 3M may make repairs to the equipment.
 - Prior to use of fall protection equipment, ensure a rescue plan is in place which allows for prompt rescue if a fall incident occurs.
 - If a fall incident occurs, immediately seek medical attention for the fallen worker for the worker who has fallen.
 - Do not use a body belt for fall arrest applications. Use only a Full Body Harness.
 - Minimize swing falls by working as directly below the anchorage point as possible.
 - If training with this device, a secondary fall protection system must be utilized in a manner that does not expose the trainee to an unintended fall hazard.
 - Always wear appropriate personal protective equipment when installing, using, or inspecting the device/system.

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.

DESCRIPTION

Figure 1 defines the different configurations of Riggersmate Hauling Kit. Figure 10 defines the components of the Hauling Kit:

- A. HEAD UNIT
- B. TRAVEL ASSEMBLY
- C. ROPE (TAIL END)
- D. ROPE (LOADED END)
- E. TOP PULLEY
- F. LOCKING CAM
- G. CAM FOLLOWER
- H. ROPE GUIDE
- I. LABEL PACK
- J. INSPECTION TAG ATTACHMENT POINT
- K. ROPE TERMINATION
- L. TOP ATTACHMENT KARABINER
- M. TRAVEL ATTACHMENT KARABINER



SPECIFICATIONS

Performance:	
NFPA 1983	General
Minimum Breaking strength	36 kN (8093 lb)

Materials:	
Rope	Polyester/Nylon orange with black fleck
Stitching	Polyester
Label Cover	Nylon Black
Karabiner	Steel, Yellow zinc plate MBS 53kN (11914 lb), Gate 16kN (3600 lb)
Head unit and travel	Aluminium 6000 series, Stainless steel

1.0 APPLICATIONS

1.1 PURPOSE: Hauling Kits are to be used as components in Personal Fall Protection Systems, designed to provide mechanical advantage for raising or lowering a load. More information on hauling kits and engineered systems can be found in NFPA 1500 and NFPA 1983. Also refer to ANSI Z359.1, Z359.4 and local governing regulations for safe rescue operations. Hauling Kits are typically used as part of a Rescue or Controlled Descent system (see Figure 2):

(A)	Fall Arrest (AS/NZS1891.4): Personal fall arrest systems typically include a Full Body Harness and a connecting subsystem (Energy Absorbing Lanyard, Self-Retracting Device, etc.). Maximum arresting force must not exceed 6 kN (1,349 lb). Maximum free fall distance 2m (6.6 ft). Anchorage Strength: Selected anchorage must sustain loads of 15 kN (3,372 lb) for single person use or 21kN (4721 lb) or greater for 2 person use.
(B)	Work Positioning (AS/NZS1891.4): Work positioning systems typically include a Full Body Harness, positioning lanyard, and a back-up personal fall arrest system. For work positioning applications, connect the work positioning subsystem (example: lanyard, Y-lanyard, etc.) to the lower (hip level) side or belt mounted work positioning attachment anchorage elements (D-Rings). Never use these connection points for fall arrest. Maximum free fall distance 0.6m (2 ft) Anchorage Strength: Selected anchorage must sustain loads of 12 kN (2698 lb) for single person use or 18kN (4047 lb) or greater for 2 person use.
(C)	Climbing (AS/NZS1891.3): The Full Body Harness is used as a component of a climbing system to prevent the user from falling when climbing a ladder or other climbing structure. Climbing systems typically include a Full Body Harness, vertical cable or rail attached to the structure, and climbing sleeve. For ladder climbing applications, harnesses equipped with a frontal D-Ring in the sternal location may be used for fall arrest on fixed ladder climbing systems. Sternal. <i>Anchorage Strength:</i> Structure to which the climbing system is attached must sustain the loads required by the climbing system manufacturer's documentation.
(D)	Rescue: Rescue systems are configured depending on the type of rescue. For limited access (confined space) applications, harnesses equipped with D-Rings on the shoulders may be used for entry and egress into confined spaces where worker profile is an issue.
(E)	Controlled Descent: For controlled descent applications, harnesses equipped with a single sternal level D-Ring, one or two frontal mounted D-Rings, or a pair of connectors originating below the waist (such as a seat sling) may be used for connection to a descent or evacuation system.
(F)	Restraint (AS/NZS1891.4): The Full Body Harness is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a Full Body Harness and a lanyard or restraint line.

1.2 STANDARDS: The Hauling Kits included in this manual conform to the standard(s) identified on the front cover of this instruction. 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.

1.3 TRAINING: 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.

1.4 LIMITATIONS: Always consider the following application limitations before using this equipment:

- **CAPACITY:** The Hauling Kit is rated to 59-282kg (130-620lb), minimum breaking strength of 36 kN (8093 lb). Make sure all of the components in your system are rated to a capacity appropriate to your application.
- **FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 2 m (6.6 ft)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 0.6 m (2 ft) 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 0.46 m (18 in) or less. Rescue systems must be rigged so that no vertical free fall is possible. See subsystem manufacturer's instructions for more information.
- **FALL CLEARANCE:** Figure 3 illustrates the components of a Fall Arrest. There must be sufficient Fall Clearance (FC) to arrest a fall before the user strikes the ground or other obstruction. Clearance is affected by a number of factors including: (A) Lanyard Length, (B) Lanyard Deceleration Distance or SRL Maximum Arrest Distance, (C) Harness Stretch and D-Ring/Connector Length and Settling (typically a Safety Factor of 1 m (3.3 ft)). Refer to the instructions included with your Fall Arrest subsystem for specifics regarding Fall Clearance calculation.
- **SWING FALLS:** Swing Falls occur when the anchorage point is not directly above the point where a fall occurs (see Figure 4). The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as directly below 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 Device or other variable length connecting subsystem is used.
- **EXTENDED SUSPENSION:** A Full Body Harness is not intended for use in extended suspension applications. If the user is going to be suspended for an extended length of time it is recommended that some form of seat support be used. 3M recommends a seat board, suspension work seat, seat sling, or a boatswain chair. Contact 3M for more information on these items.
- **ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.
- **ENVIRONMENT:** This equipment is design for use between -40° and 60°Celsius (-40 and 140° F).

¹ **Fall Arrest Free Falls:** Free falls greater than 2 m (6.6 ft) may be permitted when users are secured to the anchorage with a connecting subsystem which limits maximum arresting force to 6 kN (1,349 lb) and is authorized for such use (i.e., 3M Force 2™ Lanyards).

2.0 SYSTEM USE

- 2.1 RESCUE PLAN:** When using this equipment and connecting subsystem(s), the employer must have a rescue plan and the means at hand to implement and communicate that plan to users², authorized persons³, and rescuers⁴.
- 2.2 INSPECTION FREQUENCY:** The Hauling Kit shall be inspected by the user before each use and by a competent person⁵ other than the user at intervals of no more than 12 months⁶. Inspection procedures are described in the *User Instruction Manual's "Inspection and Maintenance Log"*. Results of each Competent Person inspection should be recorded on copies of the *"Inspection and Maintenance Log"*. If the unit is dropped or impact-load during use the product should be removed from service and inspected by a competent person immediately.

Where required by 3M, due to complexity or innovation of the equipment; or where critical knowledge is needed in dismantling, reassembly, or assessment of the equipment, periodic examinations shall only be conducted by 3M or persons or organizations authorised by 3M.

- 2.3 COMPATIBILITY OF COMPONENTS:** 3M equipment is designed for use with 3M 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.
- 2.4 COMPATIBILITY OF CONNECTORS:** Connectors are 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 3M if you have any questions about compatibility. Connectors (hooks, carabiners, and D-Rings) must be capable of supporting at least 22.2 kN (5,000 lb). 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 5). Connectors must be compatible in size, shape, and strength. If the connecting element to which a snap hook (shown) or carabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or carabiner. This force may cause the gate to open, allowing the snap hook or carabiner to disengage from the connecting point. Self-locking snap hooks and carabiners are required.
- 2.5 MAKING CONNECTIONS:** Use only self-locking snap hooks and carabiners with this equipment. Use only connectors that are suitable for 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.
- 3M connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 6 for inappropriate connections. 3M 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.
 - C. In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
 - D. To each other.
 - E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
 - F. To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
 - G. In a manner that does not allow the connector to align properly while under load.
- 2.6 CONNECTING SUBSYSTEMS:** Connecting subsystems (self-retracting lifeline, lanyard, rope grab and lifeline, cable sleeve, etc.) must be suitable for your application (See section 1.1). See the subsystem manufacturer's instructions for additional information.

2 User: A person who performs activities at heights while protected by a personal fall protection system.

3 Authorized Person: A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.

4 Rescuer: Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.

5 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.

6 Inspection Frequency: Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of competent person inspections.

3.0 INSTALLATION AND USE

3.1 BEFORE EACH USE of this equipment inspect it according to the "Inspection and Maintenance Log" (Table 1).

3.2 PLAN your system before use. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:

- **Anchorage:** Select an anchorage capable of sustaining the Static Load requirements of the intended fall protection application (see Section 1.1). The anchorage location should address Free Fall, Fall Clearance, Swing Fall, and Environmental limitations described in Section 1.4.
- **Sharp Edges:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
- **After A Fall:** Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
- **Rescue:** The employer must have a rescue plan when using this equipment. The employer must have the ability to perform a rescue quickly and safely.
- **Rescue Harness:** Rescue Harnesses are intended to be worn during normal work activities. Before using rescue attachment elements for the first time, the user should carry out a suspension test in safe conditions to ensure the harness is sized and fitted for optimal comfort during suspension.

3.3 ANCHORAGE REQUIREMENTS: The Riggersmate Hauling Kits should be attached to a suitable anchorage or anchorage connector capable of supporting the required loads. As per AS/NZS 5532: 2013 the anchorage connector should be rated to a minimum of 12kN for single person use and 18kN for 2 person use.

3.4 INSTALLATION REQUIREMENTS:

1. Attach the Hauling Kit to a suitable anchorage connector as per section 3.3, using the connector provided on the head unit.
2. The travel assembly end of the device can then be attached to the load using the connector provided.

3.5 RAISING:

1. Raise a load by pulling the tail end of the rope.
2. Whilst the load is being raised, the locking cam will engaged and disengaged once every revolution of the top pulley, making a clicking sound.
3. Continue pulling the tail end of the rope until the load reaches the required position.
4. Slow release the tail end of the rope. If the rope tail tries to pull back through the device, raise the load another 50mm to engage the locking cam.
5. The travel assembly should never be raise to interfere with the rope termination.

3.6 LOWERING:

1. To lower the load, pull on the tail end of the rope until the locking cam disengages.
2. Slowly allow the tail end of the rope be pulley back through the device by the raise load.
3. To stop lowering, pull on the tail end of the rope and raise the load 50mm to engage to locking cam.

3.7 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.

3.8 OVER-SPEED LOCK: All Riggersmate Hauling Kits are equipped with an internal over-speed lock. If at any point during operation the load becomes uncontrolled or the tail end of the rope released, this feature will automatically lock and prevent the load from falling to the ground. If the over-speed lock is activated, follow the lowering procedure, section 3.6, to continue operation. As soon as possible after an over-speed lock the unit shall be inspected as per section 5 of this manual. Do not continue to use this product after an over-speed lock unless completing a rescue.

4.0 INSPECTION

- 4.1 INSPECTION FREQUENCY:** The Hauling Kit must be inspected at the intervals defined in Section 2.2. Inspection procedures are described on the "*Inspection and Maintenance Log*" (Table 1).
- 4.2 DEFECTS:** If inspection reveals a defective condition, is deemed unsuitable for use by a competent person or has been involved in a fall, remove unit from service immediately and destroy.
- 4.2 PRODUCT LIFE:** The functional life of Hauling Kit is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service for up to 10 years from the date of manufacture.

5.0 MAINTENANCE, SERVICING, STORAGE

- 5.1 CLEANING INSTRUCTIONS:** Clean the Rollgliss Technical Rescue Hauling Kit as follows:

A) Wash Haul Kits in clean water only. Attention should be given to the locking cam and cam follower to ensure any grit is removed and they are moving smoothly. If you need to remove grit or more stubborn dirt and grime that often causes stiffness in the operation of the cam, a light cleaning agent such as WD40 or equivalent may be used. When a cleaning agent is used, ensure that all remnants are washed off and that the cleaning agent does not come into contact with the rope.

B) After washing, dry the unit with a soft cloth and hang the rope in a well ventilated area out of direct sunlight, to allow for proper drying.

C) Inspect Riggersmate Hauling Kits as per the inspection section within this manual. If the unit fails inspection or there is concern about its condition, return the unit to 3M Fall Protection and or their authorised service agent for service.

D) Store dry units within their supplied bag in a clean and dry location.

- 5.2 AUTHORISED SERVICE:** Additional maintenance and servicing procedures must be completed by a factory authorised service center. Authorisation must be in writing. Do not attempt to alter the unit in any way.
- 5.3 STORAGE AND TRANSPORT:** Store and transport the Hauling Kit in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect the Hauling Kit after extended storage.

6.0 LABELING:

Figures 8 and 9 illustrate product markings and labels and their location on the Hauling Kit. All markings and labels must be present and fully legible.

Table 1 – Inspection and Maintenance Log

Serial Number(s):		Date Purchased:	
Model Number:		Date of First Use:	
Inspection Date:		Inspected By:	
Component:	Inspection: (See Section 2.2 for Inspection Frequency)	User	Competent Person
Rope and Stitching	Inspect rope; material must be free of frayed, cut, or broken fibers. Check for tears, abrasions, mold, burns, or discoloration. Inspect stitching; Check for pulled, cut or broken stitches.	<input type="checkbox"/>	<input type="checkbox"/>
Labels and markings	All labels and marking should be present and fully legible. See figures 8 and 9.	<input type="checkbox"/>	<input type="checkbox"/>
Head unit	Inspect top pulley is free to rotate in both directions. When rotating clockwise the cam follower plate should rotate in synchronous with the pulley, when rotating counter clockwise the cam follower plate should remain stationary. Inspect the top pulley and lower pulleys are free of foreign material. Inspect the cam and cam follower are free of foreign material and is free to move. Inspect the cam teeth are sharp and grip the rope. Inspect all components for wear, abrasion, deformation, rust (corrosion) and deterioration.	<input type="checkbox"/>	<input type="checkbox"/>
Travel Assembly 8700025 or 8700027	Inspect the sheaves of the pulley are free to rotate and free of foreign material. Inspect all components for wear, abrasion, deformation, rust (corrosion) and deterioration.	<input type="checkbox"/>	<input type="checkbox"/>
Karabiners 8700568	Inspect the body for the Karabiner for wear, abrasion, deformation, rust (corrosion) and deterioration. . Inspect the gate opens and auto closes freely.	<input type="checkbox"/>	<input type="checkbox"/>
System & Subsystem Components	Inspect each system component or subsystem according to the manufacturer’s instructions. Inspect each system component or subsystem is compatible with this equipment.	<input type="checkbox"/>	<input type="checkbox"/>
Corrective Action/Maintenance:		Approved By:	
		Date:	
		Next Inspection:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
		Next Inspection:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
		Next Inspection:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
		Next Inspection:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
		Next Inspection:	

3M AUSTRALIA PTY LTD & 3M NEW ZEALAND LTD ("3M") LIMITATION OF LIABILITY

To the extent permitted by law, 3M's liability and the liability of the person who sold you this product, is limited at 3M's option, to the repair or replacement of the goods or the refund of the purchase price of the goods. 3M will not be liable for any Equipment damage resulting from wear, abuse, damage in transit, failure to maintain the product or other damage beyond the control of 3M.

Except to the extent that such liability is not able to be excluded by law, all other liability of 3M whether arising from negligence or otherwise is expressly excluded. For the avoidance of doubt, except where required by the Australian Consumer Law or any other law that cannot be excluded, 3M will not be liable for any indirect, special, incidental or consequential loss (including, but not limited to, loss of profits, and the costs of inspection, testing, storage or transportation).

3M reserves the right to require that the Equipment be returned to its plant for inspection before determining the appropriate course of action.



Fall Protection

USA

3833 SALA Way
Red Wing, MN 55066-5005
Toll Free: 800.328.6146
Phone: 651.388.8282
Fax: 651.388.5065
3Mfallprotection@mmm.com

Brazil

Rua Anne Frank, 2621
Boqueirão Curitiba PR
81650-020
Brazil
Phone: 0800-942-2300
falecoma3m@mmm.com

Mexico

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

Colombia

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

Canada

260 Export Boulevard
Mississauga, ON L5S 1Y9
Phone: 905.795.9333
Toll-Free: 800.387.7484
Fax: 888.387.7484
3Mfallprotection-ca@mmm.com

EMEA (Europe, Middle East, Africa)

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

France:

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

Australia & New Zealand

95 Derby Street
Silverwater
Sydney NSW 2128
Australia
Toll-Free : 1800 245 002 (AUS)
Toll-Free : 0800 212 505 (NZ)
3msafetyaucs@mmm.com

Asia

Singapore:
1 Yishun Avenue 7
Singapore 408731
Phone: +65 - 65587758
Fax: +65 - 65587058
totalfallprotectio@mmm.com

Shanghai:

19/F, L'Avenue, No.99 Xian Xia Rd
Shanghai 200051, P R China
Phone: +86 21 62539050
Fax: +86 21 62539060
3MFallProtecton-CN@mmm.com

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