

Never attempt to use this product until you have received appropriate instruction and are believed competent by your instructor.

Use this equipment.

Instruction received from an instructor who is well qualified in all phases of vertical rope work. Such instruction will include evaluation of your comprehension of, and ability to perform, the task required to safely and efficiently use this equipment.

The technician employed in the safe and proper use of this equipment may only be learned through personal instruction received from an instructor who is well qualified in all phases of vertical rope work. Such instruction will include evaluation of your comprehension of, and ability to perform, the task required to safely and efficiently use this equipment.

## USER INFORMATION

Under certain conditions Prusiks may not catch, or could fall. Below are certain conditions in which this could occur. It does not include all possible conditions or situations that could cause system damage or failure.

1. Equipment is muddy or icy
2. Prusik material can fall if it is the wrong diameter or materials
3. Prusiks are not tied tight enough when placed on the rope.
4. In high impact situations Tandem Prusiks could cause failure of main line.

Test the materials in your system before using Prusiks in a life safety situation.

## WARNING

Common applications include connecting a haul system to a main line, capturing progress during a haul, and as a belay. Whenever Tandem Prusiks are used, it is essential to ensure that a means of releasing the load is incorporated into the system, as it can be difficult or even impossible to release Prusiks under load.

PMI's Tandem Prusik kit contains all the gear you need for common Tandem Prusik applications, including a long Prusik, a short Prusik, and a Radium Release Hitch (RRH) kit for releasing the load. It is imperative that the user obtain hands-on training from a qualified source before using the contents of this Tandem Prusik kit. These instructions are not an acceptable alternative for such training.

The term "Tandem Prusik" refers to two such hitches in line.

Prusik is a sliding hitch by which a cord can be attached to a rope and slid up and down the rope for position- ing. The hitch will not slide under tension. The term "Tandem Prusik" refers to two such hitches in line.

Tandem Prusiks are a useful tool for a variety of rescue and rigging tasks where grabbing a rope is essential. A Prusik is a sliding hitch by which a cord can be attached to a rope and slid up and down the rope for position- ing. The hitch will not slide under tension. The term "Tandem Prusik" refers to two such hitches in line.

## INSTRUCTIONS

Tandem Prusiks are not necessarily effective in all rescue or rigging conditions. Prusiks can slip on ropes that are muddy or icy, and/or may damage themselves or the sheath of the rope if overloaded. Prusiks may not be appropriate for use in a hazardous environment in which a hang up could cause severe injury or death.

## WARNING

Prusiks must be tended by a person knowledgeable in its operation and who will remain alert at ALL TIMES.

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## INSPECTION FOR USE

Visually and physically inspect the parts of the PMI Tandem Prusik kit for any damage to cord and sewn parts. Pulley and carabiner must be checked for cracks, distortion, corrosion, scratches or gouges, sharp edges or rough areas that might abrade a rope. Remove it from service if there is any doubt about its safety and serviceability.

## REMOVAL FROM SERVICE

If any component of the Tandem Prusik kit is damaged or shows significant wear, the entire kit must be removed from service until the damaged/worn component can be replaced by the appropriate item or equal or greater strength. If the kit is subjected to a significant impact load the entire kit should be retired and replaced. The carabiners and pulley in this kit should be replaced if they have been dropped from a significant height or exposed to heat sufficient to alter the appearance of the surface. If the carabiners or pulley have scratches or gouges that are more than superficial they should be replaced. Retired components should be rendered unusable. If this kit has been exposed to potentially damaging chemicals or excessive heat, it must be removed from service and destroyed.

## MAINTENANCE AFTER USE

Always inspect the Tandem Prusik kit while you are de-rigging it. Check the prusiks, pulley, carabiners and cord for damage. If the hitch has been released during the operation, be sure to properly re-tie the radium release hitch in the starting position before returning it to the storage pouch. Maintain carabiners and pulley in accordance with manufacturer's instructions. If needed, wash the components of the kit in clear water or with mild soap, such as PMI Rope Soap. Ordinary laundry detergent, or solutions that may contain bleach, should not be used on life safety gear. Rinse thoroughly and air dry. Store the kit in a clean, dry place away from direct sunlight and potentially damaging chemicals.

## ADDITIONAL INFORMATION

Retain user instructions and labels supplied with this equipment on a permanent record.

Maintain a copy of instructions and warnings with the equipment so that any potential user can read them.

## WARNING

The successful grabbing a Prusik depends on the interaction of the material of the prusiks and the rope material. Before relying on a Prusik, test the materials you are using for their compatibility and holding strength.



## TANDEM PRUSIK KIT

Tandem Prusiks are a useful tool for a variety of rescue and rigging tasks where grabbing a rope is essential. PMI's Tandem Prusik kit contains all the gear you need for common Tandem Prusik applications.

Kit Includes:  
 PMI Radium Release Hitch Kit  
 3" SMC PMP pulley  
 2" 8mm sewn prusiks  
 Storage pouch

Product# KT36075



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### PMI LIMITED WARRANTY

PMI products are warranted to the original retail purchaser to be free from defect in material and workmanship for a period of one year. PMI will repair or replace the item without charge provided inspection at our factory discloses no misuse or alteration, which, in our judgment, has affected the condition or functioning of the product. All implied warranties imposed by law in connection with the sale of PMI products are also limited in duration to a period of one year. PMI expressly excludes and shall not be liable for any consequential damages arising out of any breach of the express or implied warranties on sales of PMI products. Because of the high risks involved in high angle rope work such as, but not limited to, rescue, rope access, caving, rappelling, rock climbing and mountaineering, no further warranties exist or are implied by PMI. Regulations issued under the Magnuson-Moss Warranty Act require us to include the following statement: some states do not allow limitations on how long an implied warranty lasts nor the excluding or limitation of incidental or consequential damages, so the above limitations may not apply to you.

## WARNING

- YOU COULD BE KILLED OR SERIOUSLY INJURED IF YOU DO NOT READ AND UNDERSTAND THIS BOOKLET BEFORE USING PRODUCT.
- SPECIAL TRAINING AND KNOWLEDGE ARE REQUIRED TO USE THIS PRODUCT.
- YOU MUST THOROUGHLY READ AND UNDERSTAND ALL MANUFACTURERS INSTRUCTIONS BEFORE USE.
- USE AND INSPECT THIS PRODUCT ONLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- YOU CAN CONTACT THE MANUFACTURER AT 706-764-1437 FOR IMPORTANT SAFETY INFORMATION.



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## RIGGING INSTRUCTIONS

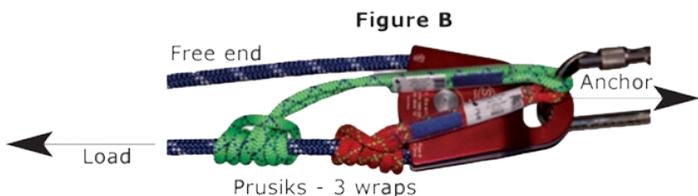
### Tandem Prusik

These instructions indicate how to attach Prusiks to a rope, and how to operate a Radium Release Hitch in a system. They do not provide complete instruction on any particular aspect of using a Tandem Prusik kit such as how to belay or how to capture progress during a hauling operation.

#### Attaching Tandem Prusiks to rope:

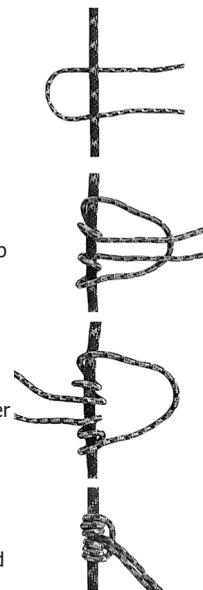
1. Lay the longer sewn Prusik cord across the rope; approximately one third of the loop will be on one side of the rope and two thirds on the other.
2. Wrap the longer section of the prusik around the rope, bringing it through the bight formed by the shorter section of the Prusik.
3. Repeating the process, bringing the longer section of the Prusik around the rope and back through its' own bight again, results in a "two wrap Prusik" hitch.
4. Repeating the action once again results in a "three wrap Prusik" hitch. The number of wraps appropriate for your application is at your own discretion, depending on your operating procedures and system requirements.
5. Tighten and dress the wraps so that they lay smoothly on the rope.

To use the two Prusiks in a tandem configuration, use the technique described above to wrap the shorter PMI sewn loop onto the rope between the first Prusik and the anchor. Be sure to wrap both Prusiks in the same direction around the rope. Holding the free end of both Prusiks together should result in approximately 4" of space between the two Prusiks when they are fully extended.



Anchor the Tandem Prusiks by clipping the free end of both Prusiks into an appropriately anchored carabiner.

Prusiks may be used in conjunction with the Prusik Minding Pulley (PMP) (included). Simply clip the PMP into the anchored carabiner so that the Prusiks are between the pulley and the load, as show (Figure B). As the free end of the rope is pulled, the Tandem Prusiks will be pressed against the edge of the PMP, holding them open. When released, the Prusiks should lock onto the rope and prevent the load from traveling.



## WARNING

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### Radium Release Hitch

The PMI Radium Release Hitch (RRH) is pre-tied for your convenience. Always inspect the RRH to ensure that it is properly tied before using it.

The RRH is used to extend a portion of a system in order to release a load, for example from Prusiks that have engaged. Users should be properly trained by a qualified instructor before attempting to use an RRH in a life safety situation.

#### To rig the RRH into a system:

1. Remove cover before use.
2. Attach the carabiner on the Mnter hitch end of the Radium Release Hitch (RRH) to the belay anchor.
3. Attach the load end of the RRH to the part of the load to be released, such as a Tandem Prusik.
4. The tail of the 8mm cord in the RRH is pre-tied to the anchor carabiner as added security. Do not detach.
5. Always make sure that carabiners are locked.

#### To release the Radium Release Hitch:

1. Untie the overhand-on-a-bight that secures the hitch.
2. Maintaining tension on the Mnter hitch, carefully untie the half hitch below the Mnter hitch.
3. Slowly feed line through the Mnter hitch to allow the radium hitch to lengthen and to lower the load.
4. When the load has been transferred to the main line, re-secure the Radium Release Hitch by tying a half hitch and an overhand-on-a-bight below the Mnter hitch.

Reconfigure the Radium Release Hitch for use before storage.

#### Tying a Radium Release Hitch:

1. Tie a compact figure-eight-on-a-bight on one end of the cord.
2. Clip the loop (bight) of the knot into the load side carabiner with the loop close to the carabiner's spine. This load end carabiner is where the Tandem Prusiks or other load is attached to RRH hitch.
3. Bring the standing part of the cord up through the anchor end carabiner close to the carabiner's spine and back down and through the load end carabiner next to the previously tied figure-eight-on-a-bight.  
Note: The anchor end carabiner must be attached to an anchor system capable of sustaining the full load of the system during and after a potential main line failure.
4. Once again bring the cord back up to the anchor carabiner. However, this time tie a Mnter hitch onto the anchor carabiner next to the previous wraps on the gate side of the end. Make sure to tie the Mnter hitch into its release position with the loose (standing) end toward the gate side of the anchor carabiner. At this point, you should have a 3:1 mechanical advantage system built between the two carabiners with a Mnter hitch to control release of the load.
5. Secure the hitch by taking a bight in the standing end of the rope and tying a half hitch around the three parallel cords just below the Mnter hitch. Back it up with an overhand-on-a-bight knot around the bundle.
6. As a final security, tie a figure-eight-on-a-bight in the standing end of the cord and clip it into an anchor as a backup, so that the system is secure even in the event of an unintended complete release by the operator.
7. Check to make sure the gates of both carabiners are locked.

