# **OWNER'S MANUAL**

MSR





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# **KEEP ALL FLAME AND HEAT SOURCES** AWAY FROM THIS TENT FABRIC

Never use any fuel-burning products (stoves, lanterns, heaters, etc.) inside or within proximity of this tent. Use of fuel-burning products inside or within proximity of this tent can result in the accumulation of dangerous concentrations of carbon monoxide-a colorless, odorless gas. Breathing carbon monoxide will cause serious injury or death.

Keep all flame and heat sources away from this tent. This tent is made with flame resistant fabric which meets CPAI-84 specifications. It is not fireproof. The tent fabric will burn if left in continuous contact with an open flame or other heat source. Failure to keep all flame and heat sources away from this tent can result in a fire that can burn, injure, or kill you.

## Before using this product, read and fully understand:

(1) attached warnings; (2) the instruction manual and all accompanying documentation. Failure to follow these directions can cause an unsafe situation leading to fire, burns, severe injury, or death.



Never place your stove, campfire, or other flame source in or near your tent or shelter. Never cook, light, or refuel a stove or any other heat source inside your tent or shelter. Death by suffocation and/or serious burns are possible.



Maintain adequate ventilation inside your tent at all times. Death by suffocation is possible.



When choosing a campsite, carefully consider the possibility CAMPSITE of falling rocks or tree limbs, lightning, flash floods, ava-CHOICE lanches, strong winds, and other potential hazards to reduce the risk of loss or injury to the tent or occupants.



Anchor your tent properly at all times to reduce the risk of loss **ANCHOR** or injury to the tent or occupants.

# **4 TIPS FOR LONGER TENT LIFE**

- 1. Never Store Your Tent Wet: Storing your tent while it's wet (or even just damp) leads to premature breakdown of the fabric and coatings. (See page 6).
- 2. Treat Your Poles Well During Setup: Most pole damage occurs during setup. Don't allow the shock cord to pull and snap the ends together as this can damage the pole ends and result in breakage. (See page 7).
- 3. Use a Footprint: Footprints keep your tent floor clean and dry and they minimize floor wear by protecting it from excessive abrasion. (See page 4).
- 4. Don't Rush the Zippers: Be kind to your zippers. Go slow when zipping. (See page 9).

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# SETUP AND USE

#### **BEFORE YOU GO**

Fully unpack your new MSR® shelter and pitch it at home. Familiarize yourself with the setup procedure and the various features, and attach the guy cords. This will help if you have to set it up in the dark or in adverse conditions.

## **SELECTING A SITE**

Select a site that's level, will drain well if it rains, and is protected from wind and other elements. Clear the area of sharp stones, sticks, and other debris, both for comfort and to protect your floor. If possible, avoid setting the tent on ground that is already wet. If you can't, minimize the resulting humidity and potential of condensation by keeping your tent well ventilated.

## **USING A FOOTPRINT**

It's recommended that you use a footprint (sold separately) underneath your tent. Designed for each specific model, a footprint will not only keep your tent floor clean and dry, it also will protect it from excessive abrasion, prolonging the life of the tent.

## **USING TENT POLES**

Handle tent poles carefully-nearly all pole damage occurs during setup.

- When unfolding and folding, do not allow the shock cord to pull and snap the ends together. This can damage the pole ends and result in breakage when the pole is tensioned.
- Push, don't pull, your poles through the sleeves. Pulling the poles will cause sections to separate and potentially damage the pole or your tent fabric. Don't force the poles; if you feel resistance, find the snag and work your way through it.
- Exposure to saltwater may cause your frame to fail due to corrosion. Rinse poles in fresh water when you return from your trip and apply a light coat of silicone lubricant.
- In extremely cold weather or after extended use, the shock cord can lose some elasticity. To adjust, simply pull each pole section quickly back and forth to tension the cord. If more tension is needed, unscrew the end tip, pull out a few inches of cord, and tie a new knot in the cord.

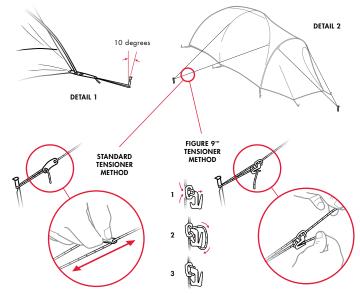
**Note:** Fabric expands and contracts in varying climates. To accommodate this, most MSR® tents have two grommets for inserting pole tips in the stake loops. Use the outer grommet in dry climates when the fabric is tight. The inner grommet is for humid climates when the fabric is loose.

# **STAKING**

All tents, including freestanding models, require staking to prevent them from flying away in a gust of wind. Always anchor your MSR tent. Enough stakes and guy cord are supplied to safely setup your tent in most situations. It may be necessary to purchase additional and/or specialized stakes and guy cords for use in extreme or varied soil conditions. Cascade Designs offers a full line of stake tensioning kits; see your dealer for more information. *(See detail 1).* 

## **USING GUY-OUTS**

Tightly tensioning your tent with guy out cords greatly increases the tent's strength and stability. (See detail 2). This will also reduce fabric droop and wrinkles, and prevent rainwater from pooling. Attach the cord to the tent guy-outs where needed and feed the cord through the tensioner. (See Tensioner Methods below).

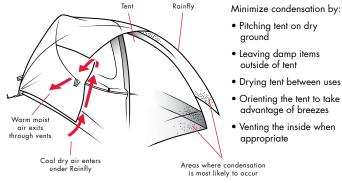


# SETUP AND USE

## CONDENSATION

Condensation is an unavoidable fact of physics. When warm, moist air comes in contact with the cool tent fabric it forms condensation. In most conditions condensation can be controlled by allowing air inside the tent to vent outside. During periods of high humidity, such as rain, it can be impossible to remove or reduce condensation. In these conditions, a high degree of ventilation can actually increase the condensation by drawing in more humid air. *(See detail 3)*.

MSR® double-wall tents are designed to allow humid air to pass through the breathable canopy fabric or No-See-Um mesh and collect on the inner side of the rainfly. It is normal to find the underside of the rainfly covered in water droplets in the morning. In humid conditions condensation will also collect on the sill and parts of the floor inside the tent. This is also normal and does not indicate leaking floor fabric.



DETAIL 3

FIRE

Never use fueled appliances or flame-producing items of any kind inside or near your tent. Position your shelter away from camp stoves, campfires, or other flame-producing items.

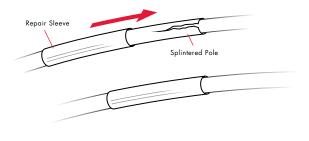
# HOW TO MAKE FIELD REPAIRS

## FABRIC & NO-SEE-UM MESH TEARS

If your tent fabrics are damaged while on a trip it's possible to do minor repairs in the field. The MSR® Tent Field Repair Kit (sold separately) includes waterproof, self-adhesive patches for tent fabrics, No-See-Um mesh, and even clear polyurethane for the rainfly. McNett Seam Grip® seam sealer is a good option for small holes. If you have a large tear, Customer Service can also fix your shelter—for a reasonable fee—after you return from your trip. Normal wear and tear is not covered under warranty.

# POLE REPAIR

If a pole breaks, you can make a temporary splint with the pole-repair sleeve included with your tent. Slide the repair sleeve over the broken section and tape or wedge it in place to hold it secure to form a temporary repair. After you return from your trip, contact the MSR<sup>®</sup> Product Service Center for information on a permanent repair to your pole. *(See detail 4).* 



DETAIL 4

# CARING FOR YOUR TENT AT HOME

# STORAGE

Never pack or store your tent if it is wet/damp or dirty. Though we use the best polyurethane waterproofing available, prolonged exposure to moisture causes hydrolysis; the waterproof layer breaks down, becoming soft, sticky and no longer waterproof. Storing a wet tent for as little as 24 hours in warm weather is also likely to start the process of mildew forming on the fabric. Mildew will cause your tent to stain, smell, and will lead to the premature breakdown of the waterproof coating. Mildew and moisture damage are not covered under the Warranty.

Dry your tent thoroughly after every trip and store it outside of the stuff sack, the same as you would a sleeping bag, in a dry area out of direct sunlight.

# CARE

## Sun & Ultraviolet Rays

UV light is one of the most damaging elements for your tent or shelter. Though shelters are often used in the sun, extended and prolonged exposure will cause fabric to fade, lose strength, and eventually tear. The effects occur more rapidly at higher elevations. If possible, pitch your tent or shelter out of direct sunlight and use your rainfly to help protect the more fragile mesh and uncoated nylon. UV damage is not covered by the warranty.

## Seam Sealing

Superior fabrics and construction make  $\mathsf{MSR}^{\textcircled{B}}$  tents and shelters extremely waterproof.

#### Tents with DuraShield™ coating

The rainfly and floor are factory seam-taped, so seam sealing is not necessary. If any problems develop, simply seam seal only the specific area using McNett Seam Grip® (www.mcnett.com). Follow the instructions on the seam sealer tube, and seam seal the inner, coated, shiny side of the fabric only.

#### Tents with Xtreme™ Shield coating

The Xtreme™ Shield System is a two part solution that maximises the life of your tent's waterproof coating and keeps those seams intact. We use a precision-stitched, factory-sealed seam that's not only more durable than a taped seam.

We have found that in higher humidity and rainfall regions like Oceania and Asia, it may be necessary to seam seal these tents **before use**, and the tent can be maintained over time if need-be, the same way, to ensure it provides watertight protection over the life of your tent.

# Cleaning

A tent footprint is the most effective way to keep your tent clean (see "Using a Footprint," *pg.* 4). If your tent should require cleaning, set it up and use a sponge with warm water. If further cleaning is needed, a garden hose should be able to wash off any remaining dirt. Do not use detergent, soap, bleach, or have it dry cleaned, as these may remove the waterproofing and/or damage the fabric. Allow the tent to air-dry completely before packing or storing.

## Zippers

When sand and grit get in the zipper teeth, they can cause abrasion and damage to the metal zipper sliders. If you use your shelter in these conditions, keep the zipper teeth clean by rinsing them out with water. The pressure from a regular garden hose will push out small sand particles from inside the zipper coil. Handling your zipper slider with care can also prolong the life of a zipper. Just like a zipper on a duffle bag or piece of luggage, make sure to align the tracks before sliding the zipper—and don't exert excessive force. If fabric gets caught in the slider, stop and slowly reverse the slider to remove.

## Animals

To prevent damage from animals chewing holes in the fabric, never store food or cooking equipment in your tent.

# REPAIR | LIMITED WARRANTY

We at Cascade Designs, Inc. take pride in offering the highest-quality outdoor gear available, and we stand behind everything we make. If you experience any problems with one of our products, the information below will help you get it repaired or replaced as quickly as possible.

#### Most damaged Cascade Designs products can be repaired

In order to keep our products in use and out of the landfills, Cascade Designs offers a repair service. If you cannot repair your product, please return it to the Cascade Designs Service Center. If possible we will repair non-warranty damage at a fair rate. For North American customers, please contact our Customer Service Center for details on current repair fees. For customers in Australia, please consult the Distributor listing below.

#### E-mail: Cascade Designs Australian Service Center

Tel: 1-800-634-853

Email: support@spelean.com.au

Web Support: https://www.spelean.com.au/support-request

#### Hours of operation:

Monday–Friday, 9 a.m.–5:00 p.m. Eastern Standard Time. \*We ask that you clean products before sending them to us.

#### LIMITED WARRANTY:

To view the complete Limited Warranty/Limitations of Remedies and Liability, please go to http://cascadedesigns.com/Service/Warranty-and-Repair

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