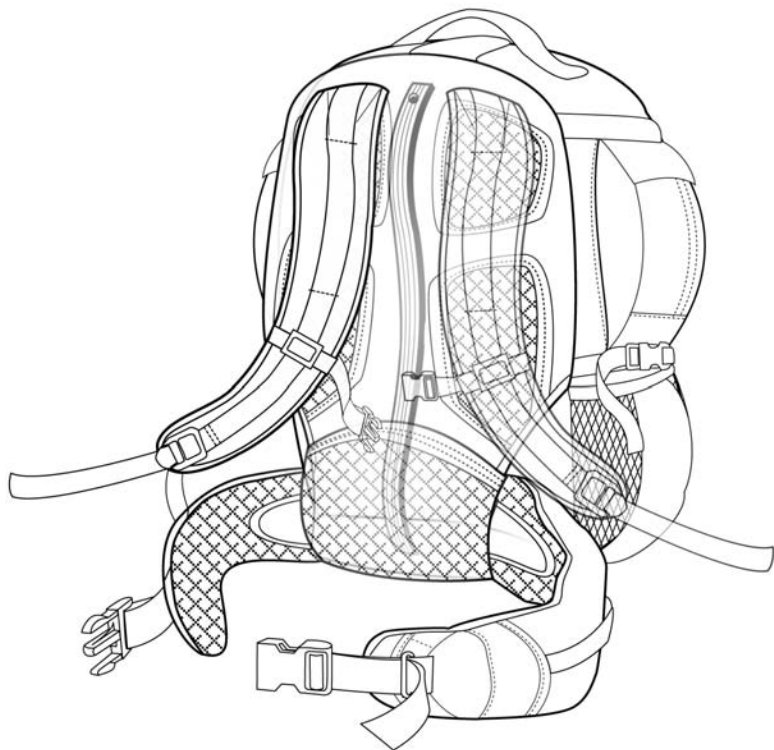




Trail Series

-MORaine & REDWING-

TRAIL SUSPENSION INSTRUCTIONS



INSTRUCTION INDEX

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Save these instructions for future reference.



SAFETY INFORMATION

-IMPORTANT-

- Read, and follow, all instructions before using this backpack!
- Failure to follow these warnings could result in a potentially hazardous situation which, if not avoided could cause rapid fatigue, death, serious injury or permanent disability to you or others.

! WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

! CAUTION indicates a potentially hazardous situation which, if not avoided, could result in property damage.

! WARNING

THIS BACKPACK MAY AFFECT YOUR COORDINATION AND BALANCE

- Before use, DO familiarize yourself with the added weight of the pack and contents.
- DO use a spotter to assist when hoisting pack onto shoulders.
- When strapping items such as skis to pack, be aware that they can catch on overhead obstructions causing you to lose your balance and fall.
- DO NOT overload pack, don't carry more weight than you can manage.

! WARNING

PROTECT YOURSELF

- DO NOT place backpack near a campfire, stove or any open flame.
- Only carry liquid fuel in containers approved for such use and make sure they are tightly sealed before placing in a pack.

! CAUTION

DO NOT USE A DAMAGED BACKPACK

- DO check the condition of the backpack before each use.
- DO check to assure all buckles snaps, straps, and adjustments are secure before each use.
- DO NOT use pack if the frame, fabric, straps or buckles are damaged.
- DO NOT use pack if pack is damaged in any way.
- DO NOT leave (store) a pack in direct sunlight. Ultra-violet light will cause materials to weaken and fade.
- For assistance in repairing your pack or answering any questions, call Kelty Customer support staff; toll free at 866-349-7225 (866-FIX-PACK).

CARE AND CLEANING

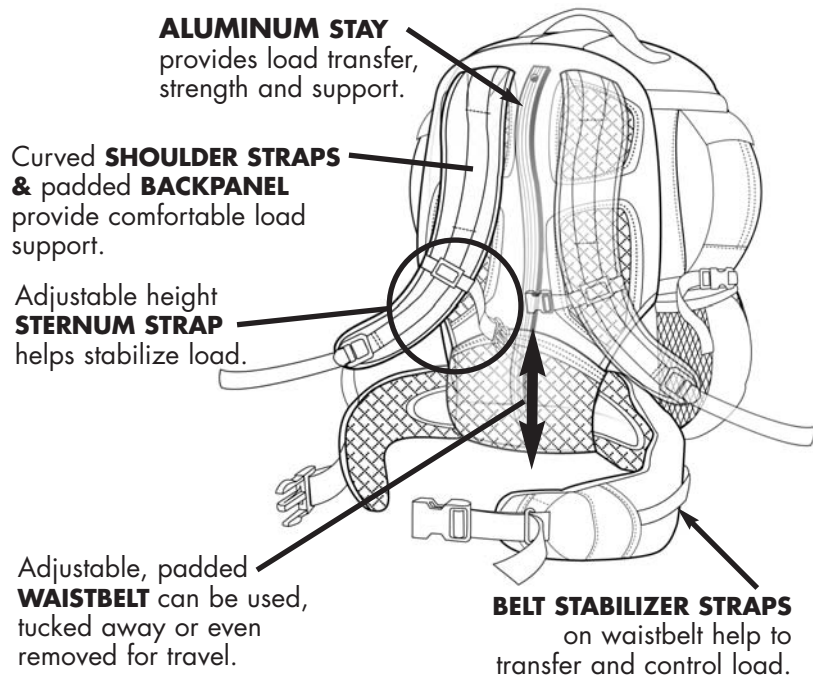
1. Brush off loose dirt with a dry brush.
2. As needed, wipe out the inside with a damp sponge and mild soap.
3. Rinse only, if possible. Use cold water and a sponge or rinse in a tub without soap.
4. Machine wash in front-loading unit (DO NOT use machine with agitator, agitator could cause damage not covered under warranty) with cold water and mild soap (Ivory Flakes, Woolite, Sport Wash, Etc.) Not detergents.
5. DO NOT soak in soapy water, it may cause damage to the coated fabric.
6. Rinse thoroughly to eliminate soap residue.
7. DO NOT use a dryer, air dry only.
8. Always store in a cool, dry area.

ZIPPER CARE

1. Keep loose threads trimmed.
2. Keep free from dirt.
3. Spray periodically with a non-greasy, non-staining silicone spray designed for fabrics.
4. To prevent salt water corrosion on zipper pulls, make sure you rinse with clear water after exposure.

1. SUSPENSION FEATURES

The Moraine and Redwing suspension features:



2. FITTING YOUR PACK

Follow these steps **IN SEQUENCE** to achieve the best fit every time you use your pack. Refer to the figure above to identify pack parts.

Before starting, loosen all load-lifter and belt stabilizer straps.

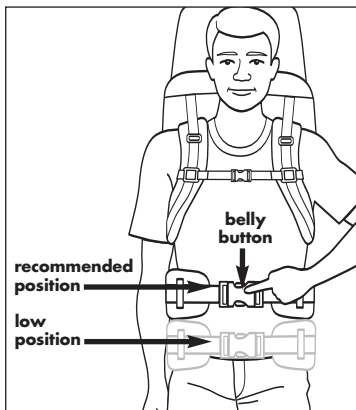


Figure 2A

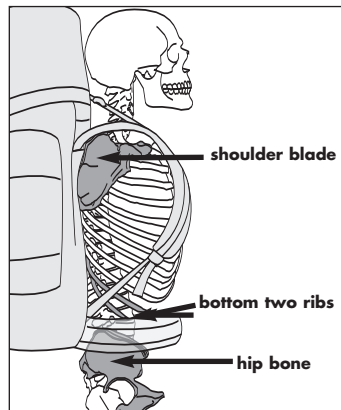


Figure 2B

A. FIRST weight the pack with at least 25 lb. (35 lb. is ideal).

B. NEXT put the pack on and tighten the waistbelt. Make sure you place the waistbelt in the proper location (Figures 2A & 2B).

It is recommended to wear the belt on hip bones, just under the rib cage. If you still prefer to wear the belt low, add one to two inches to your torso length measurement. Figure 2A shows both the preferred placement of the waistbelt and an example of a belt worn low. The low position is not recommended. Once positioned correctly, tighten the belt to prevent it from sliding. (A good rule of thumb is to have the belt buckle approximately over your belly button.)

Benefits of wearing the belt high on the waist:

- Proper loading of the skeletal frame, further supported by the two strongest muscle groups in the body: the quadriceps & gluteals.
- Blood flow & nerves route across the front of the hips; wearing the belt too low can restrict blood flow causing muscle fatigue, nerve pinching and possible numbness.

WAISTBELT ADJUSTMENT

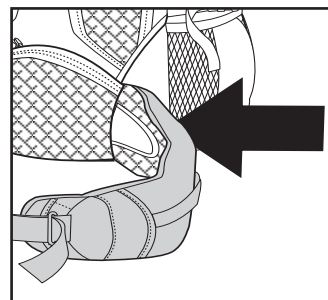


Figure 2C

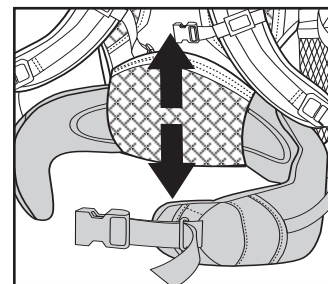


Figure 2D

I. Insert an open hand between the hook & loop material in front of the packbag but behind the waistbelt (Figure 2C).

II. Slide the waistbelt into the desired position by pulling up or pushing down on the waistbelt (Figure 2D).

III. Re-velcro the waistbelt to the backpanel.

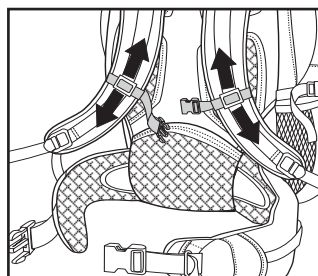


Figure 2E

C. OPTIONAL- Position the sternum strap (Figure 2E) on your chest, and pull it snug. The sternum strap should cross your chest high, just below your clavicle, so it doesn't interfere with your breathing. Some people find it more comfortable not to use the sternum strap when breathing hard—especially at altitude.

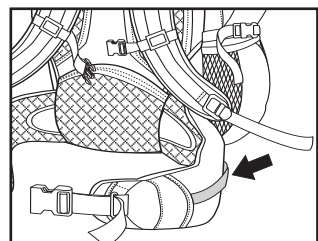


Figure 2F

D. OPTIONAL- Pull the belt stabilizers just snug (Figure 2F). If overtightening them feels good, you might need to bend more curve into the frame in the lumbar region. Overtightening causes gaps between you and the belt. Belt stabilizers are best left loose for the first 15-30 minutes of hiking.)

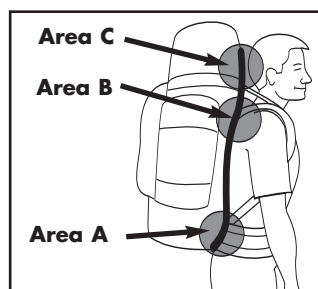


Figure 2G

E. When the waistbelt is in the correct position, walk around and notice how the pack feels against your back. The pack should conform to your back as in Figure 2G. Use the short evaluation below to ensure a great fit. Take notice of any pressure points and trouble shoot them in the next section.

	feels great	discomfort/ pressure
Area A- Lumbar Pad (bottom of the belt)	<input type="checkbox"/> top	<input type="checkbox"/> top
	<input type="checkbox"/> mid	<input type="checkbox"/> mid
	<input type="checkbox"/> bottom	<input type="checkbox"/> bottom
Area B - Shoulder Pad (top of back)	<input type="checkbox"/>	<input type="checkbox"/>
Area C - Headroom	<input type="checkbox"/>	<input type="checkbox"/>

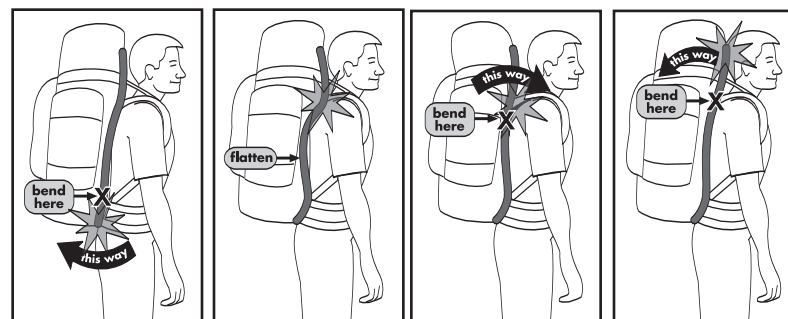
3. FRAME SHAPING

If you have answered "discomfort/pressure" see, the trouble shooting below.

When you are walking with weight in the pack, the pack's shape should be exactly the same as your back. We put an average curve into the frame at the factory, but some additional fine-tuning may be required.

HINT: Most bending of the stays can be done over a knee without taking the stays out of the pack. (Bending and re-bending the stays won't hurt them.) Fit your pack with an average load, wear your hiking boots, and carefully load your pack with the weight close to your back just like you would for a trip. **Walk around.** Use the guide below to address problems.

HINT: Wearing a pack with wrinkled clothing or seam lumps under the waistbelt can cause pressure points. Belt loops and elasticized waistbands are classic sources of discomfort.



PROBLEM:
Pressure at bottom of belt

Bend at lumbar pad top (X) to tuck the pad into the small of your back.

PROBLEM:
Pressure at top of back

Flatten the curve of the frame where it bows away from the back.

PROBLEM:
Gap at top of shoulder

Add curve to the frame and then bend back the top (X).

PROBLEM:
Need more headroom

Bend the frame away from the head (at X).

4. PACKING HINTS

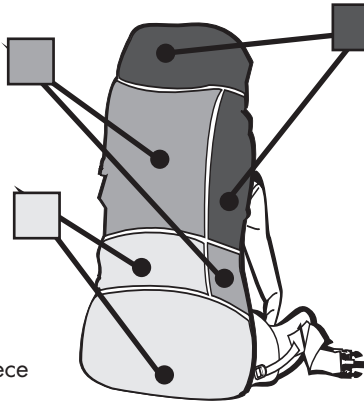
Loading the pack greatly affects your comfort—follow the guidelines below for optimum comfort.

MEDIUM ITEMS

- Cooking utensils
- Some clothing
- Some foods
- Tent body and fly

LIGHTEST ITEMS

- Sleeping bag
- Pad
- Rain, wind gear
- Bivy sack
- Bulky clothing/ fleece



HEAVY ITEMS

- Water
- Stove
- Fuel
- Food
- Tent poles

NOTE: If your pack feels like it's leaning away too much from your shoulders, you have a weight distribution problem.

Hints to keep you comfortable when out on the trail:

- When balance is crucial for off-trail travel, climbing or skiing, pack heavy items centered and close to the back.
- The sleeping bag should always go in or on the bottom of the pack.
- Pack clothing and other light gear around heavy items (ie. a stove or climbing gear) in order to keep them from shifting.
- Items you will need during the day should be packed in the top of the main compartment, the top pocket, or side pockets.
- Foam pads and odd-sized equipment (such as long tent poles) can be carried on the outside of the pack. Use the appropriate accessory patches, ice axe loop, or ski slots for these items.
- Do not put heavy items like water bottles or climbing equipment in pockets located far from your back.

KELTY Lifetime Warranty

Kelty takes pride in its workmanship and undertakes to manufacture the best possible products. Kelty products are covered under warranty, to the original owner, for the lifetime of the product, against defects in materials or workmanship.

Since no Kelty product is indestructible, Kelty's warranty does not cover defects attributable to or resulting from normal wear and tear (ie: exhausted zippers), natural hazard damage (ie: weather, animals, ultraviolet [UV] damage on tents), abuse or alteration.

All products being returned require a Return Authorization number. Service under our warranty is available to the original purchaser by returning the product to any authorized Kelty dealer or by contacting our customer service department at 1-866-349-7225 (1-866-FIX-PACK) for a Return Authorization number.

If, after inspection, we determine that the product is defective, we will repair or replace it at our discretion, free of charge. If your Kelty product needs service or repair that is not covered under warranty, we will provide the necessary service at a reasonable charge.

This warranty gives you, the original purchaser, specific legal rights. You may also have other rights, which vary from state to state.