

## 1. INTRODUCTION

Congratulations on your choice of Aerostich A.D.1 pants. Your new pants are based on the classic qualities of the Aerostich Darien pant, with some added features. To receive the best performance from your A.D.1 pants, please read this owner's guide. Call us at (218) 722-1927 if you have any questions, comments, or suggestions.

**CAUTION:** Unlike leather, Cordura® Nylon fabrics melt at about 450° F. Contact with superheated exhaust components may damage this fabric.

**POCKET SAFETY WARNING:** Tools, cameras, etc. carried in your pockets can injure you during a crash. For safety, do not carry hard or pointed objects in the pockets.

**LEGAL NOTICE:** These garments are not considered to be personal protective equipment as defined in, or within the scope of, the personal protective equipment (EC Directive) regulations 1992 (S.I.1992/3139). No liability will be accepted arising out of these garments' non-compliance with such regulations.

## 2. ABRASION INFORMATION

Your A.D.1 pants are not designed for high speed abrasion protection, or to be used as a substitute for heavy leather pants. However, they will provide significant abrasion protection when used properly. A.D.1 pants are made from Cordura® Nylon and a TLTex® laminate. This HT500 Denier Cordura TLTex® fabric is tough, and outperforms denim, ordinary synthetics, and fashion weight leather. Low speed crashes will usually only scuff the fabric, but as speeds exceed 30–40 MPH, repairs may be required. Your pants should be returned to us for examination after an impact or abrasion.

Cordura® fabric is very strong, but it differs from leather in several important ways. A great deal of heat is generated by the friction of a long slide, so you should wear regular pants underneath to provide thermal insulation between the A.D.1 pants and your skin. If the fabric does become hot enough, our research indicates there is a theoretical possibility that it may melt or cause burns. In actual use, no burns have occurred. Cordura® is also more "slippery" than leather, so you may slide slightly farther in a crash, but roll and tumble less. The optional hip pads increase the pants' crash protection.

## 3. BREAK-IN

Initially, you may find the fabric feels a bit stiff. Riding several hundred miles will help soften and break in the fabric. Laundering will shorten the break-in period. (See section 10, Laundry and Care.)

## 4. SIZING AND FITTING

A.D.1 pants are offered in even waist sizes 30" thru 46" regular and long. They feature a diamond gusset crotch panel for greater comfort and the knees have a greater total bend around a larger radius. A loose fit is recommended. Sizes are generously cut to maximize freedom of movement, to permit the use of the optional hip pads, and to allow for layering in colder conditions. Custom length alterations are available.

## 5. COLD WEATHER USE (20°– 65°F)

Dressing in layers will provide the most comfort and flexibility in cold conditions, but do not add so much insulation that your freedom of movement is restricted. You may notice some stiffness in the **TF<sup>2</sup>** Pads during colder weather (see section 8). If this becomes unacceptable, consider substituting our regular **TF<sup>2</sup>** pads for our cold weather pads, or try removing the pads to provide more room for adding insulating clothing. Effective layers in very cold conditions may include thermal underwear, fleece pants, and electric chaps. On an all-day ride, insulating layers can be removed and packed as the temperature rises, and then re-employed in the afternoon or evening when the temperature begins to drop.

## 6. HOT WEATHER USE (80°– 100°F)

The A.D.1 pants were designed without a built-in lining which means less weight and maximum air circulation. Free hanging impact pads make the A.D.1 cooler because they hold the pants away from you, permitting increased air circulation. For maximum comfort in very hot weather consider wearing shorts under your A.D.1 pants.

## 7. WATERPROOFNESS

The TLTex® Cordura® fabric that your A.D.1 pants are made from is one of the most waterproof materials available. Inside, all of its seams are factory sealed using Gore-Seam® heat applied tape. For maximum waterproof performance, the zippers have full length inner and outer rainflaps that help keep rain and wind out, and the front fly zipper features an inner gusset.

Fabric care is important for maximum waterproofness in severe conditions. To help your pants work best in the wet, or after long use and multiple laundering, use a wash-in repellent like Nikwax® or spray its exterior with Scotchgard® or a similar waterproof preparation. For most riders, about half a can of one of these spray products, applied every year or two, will prevent water from saturating the outer weave of the Cordura. This treatment makes the pants lighter, drier, and more breathable in wet conditions. Just as water beads on the surface of a waxed car finish, spray treating your pants helps water to bead and run off the surface of the fabric.

In conditions that combine very high temperatures, high humidity and severe rain, you may not feel comfortable. For TLTex® fabric to work best, the climate outside the pants must be slightly less hot and humid than the micro-climate that exists between your skin and the inside of the pants. In other words, at +98°F and 100% humidity, you might be miserable; but at anything less (in temperature, humidity, or both) you will be drier and more comfortable in A.D.1 pants than in anything else.

## 8. **TF<sup>3</sup>**™

Like the hydraulic shock absorbers on a car or motorcycle, **TF<sup>3</sup>**'s remarkable characteristic of stiffening in a high-speed impact yet remaining soft and moldable for comfort make it the perfect pad material for your A.D.1 pants. Somewhat more sensitive to temperature than conventional foams, **TF<sup>3</sup>** performs best between 65°F and 85°F. Fortunately, your body keeps the pads within this temperature range even when the ambient temperature is much warmer or colder. If you leave your pants outside in freezing temperatures, the **TF<sup>3</sup>** may become stiff enough to split when flexed sharply; however, it is easy to repair this damage using any brand of contact cement. Your A.D.1 pants are one of the few motorcyclist garments available using this amazing high technology impact resistant material. Knee pads are removed from their pockets by first detaching each pocket from the pants. Pocket openings face the hook & loop attachment strips used to hold each pad in position. For winter riding you may wish to remove the **TF<sup>3</sup>** entirely, or substitute conventional foam. You should always remove the **TF<sup>3</sup>** when laundering.

## 9. ADHESIVE HOOK & LOOP AND SEAM TAPE

To make your A.D.1 pants as lightweight, cool, and ventilated as possible there is no lining. This unique, highly functional design exposes the seam sealing tape to wear, and also requires the use of adhesive hook & loop to locate the impact pads (without any stitching or snaps that would be visible from the outside of the garment). The adhesives used in the seam tape and hook & loop pad mounts are very reliable and should last the life of the pants, but if a part of the adhesive begins to detach, repairs are easy. If you send it to us, mark the areas that need to be checked. If you need adhesive hook & loop or seam tape, call and we will send it to you. The adhesive can be reactivated with heat or solvents, but the easiest way is to simply repair where needed using an adhesive like Seam Grip, or any other general purpose contact cement.

## 10. LAUNDRY AND CARE

Machine wash recommended. Do not dry clean unless clear distilled hydrocarbon solvent is used for rinsing and spray DWR (Durable Water Repellent) is applied to fabric before drying. Remove **TF<sup>3</sup>** pads and contents of all pockets before washing. Close all main zippers, pockets and vent zippers. Wash on a warm permanent press cycle (105° F/40° C) using a small amount of liquid detergent. Run the complete wash/rinse cycle a second time with no soap. Do not use powder detergents or any products that contain fabric softeners, conditioners, stain removers or bleach as they will affect garment performance. Do not wash with other heavily soiled clothing. Line dry or machine dry on a warm, gentle cycle. Once dry, tumble dry your garment for 20 minutes to reactivate the DWR treatment on the outer fabric. Do not use any anti-static spray. If unable to tumble dry, iron the dry garment on gentle setting (warm, no steam) by placing a towel between the garment and the iron in order to help reactivate the DWR treatment. Reinsert the **TF<sup>3</sup>** pads. Your suit's hook & loop fastener will pick up lint if you wash the suit with towels, etc. When the factory applied DWR treatment can no longer be reactivated (after long use and many wash/dry cycles), apply a new water-repellent treatment (available as a pump-spray or wash-in product) to the garment's outer fabric. This will help water to "bead" on the suit's surface fibers in rainy conditions. Silicone spray or Aerostich Zipper Lube on the zipper chain will help the slider move easier.

After you have put thousands of road miles on your suit, spots, stains and accumulated dirt may be difficult or impossible to entirely remove, but the following technique may be useful (it may, however, compromise your suit's waterproofness). First, spray Clorox® prewash on the soiled spots and rub in by hand. Let stand for 10 minutes. Next, scrub the spots with a brush and a little liquid detergent and let stand for another 10 minutes before washing normally. For individual oil stains, waterless hand cleaner can be worked into the spot by hand and rinsed out thoroughly with very hot tap water.

## 11. EXCHANGES AND REPAIRS

Please send all items insured and prepaid. Include your name, address, a daytime phone number and the reason for the return. Exchanges and returns for refund must be in new condition. Returns for repair must be clean. If your pants require additional cleaning before being repaired, you will be charged. Some sewing, upholstery, or boat cover shops in your area may be able to patch or repair your pants. If needed, call us, and we will send any materials you require (such as fabrics, reflective material, zippers, etc.). If major repairs are required, we will contact you with a quote before beginning work. If repair costs exceed half the pants replacement value the pants are "totaled", and will not be repaired.

## 12. FEATURES

### 1. COVERED FRONT POCKETS

Hook and loop secures your cargo.

### 2. HOOK & LOOP CLOSED BACK POCKET

Suitable for carrying a wallet, bandanna, etc.

### 3. GUSSETED CROTCH

Ride in comfort with this diamond crotch panel.

### 4. HOOK AND LOOP ON LEFT THIGH

Attach an optional map pocket.

### 5. CARGO POCKET

Vertical zippered pocket for larger additional storage.

### 6. REFLECTIVE ANKLE TABS

Radial loop strips for a more secure adjustment around the calf and lower leg.



## 13. FINALLY

Your A.D.1 pants were designed and made by a team of experts who are proud of the quality built into each garment. You can expect your pants to last 5 to 10 years or 50,000 to 100,000 miles. We hope that you will experience many miles and years of safe, comfortable motorcycling while wearing them. Good riding!

**LIMITED GUARANTEE:** To the original purchaser, Aero Design & Manufacturing Company, Inc., the manufacturer and seller of Aerostich RiderWear products, guarantees all Aerostich RiderWearHouse products against defects in materials and workmanship for two full years. Since no Aerostich product is indestructible this guarantee does not cover: ordinary wear, soiling and aging; or damage due to contact with superheated components, misuse or accidents. Repairs due to normal wear and tear over time or accidents will be done at a reasonable charge.

**MONEY-BACK SATISFACTION:** If you are dissatisfied with any RiderWearHouse Catalog product in any way, you have 30 days from the date of delivery to return the item in an undamaged and unsoiled condition for a full refund, by prepaid delivery to: Aero Design and Manufacturing Company, Inc., 8 South 18th Avenue West, Duluth, Minnesota, 55806.