

2010 SCALPEL

Magnesium Shock Link

Certain 2010 model Scalpels are assembled using a high-performance forged magnesium shock link. Magnesium links can be identified by the special graphic markings. "MAGNESIUM // LINK" and "Mg 12." See photo at right.

Weight Comparison

The magnesium link is considerably lighter than the aluminum 6061-T6 alloy version which was used on all 2009 Scalpels. Magnesium alloys have a greater strength-to-weight ratio compared to aluminum alloys.

| LINK | WEIGHT (g) |
|--------------------------------|------------|
| High-Performance - (magnesium) | 63 |
| Standard - (6061-T6 aluminum) | 90 |



Link Care and Maintenance

Magnesium is a very reactive metal. Untreated and exposed, it corrodes. A bare (unpainted or uncoated) magnesium part will immediately react with oxygen in the atmosphere and form a thin powdery oxide coating. Raw magnesium is subject to galvanic corrosion when in contact with dissimilar metals.

During manufacture, magnesium Scalpel links are coated in special process. The process covers or coats the raw part with Keronite, a barrier material. This coating underlies the paint and clear coating. The three coatings act to isolate the magnesium part and prevent contact with the dissimilar metals such as the bearings and the shock bolt.

We have subjected magnesium Scalpel links to hundreds of hours of exposure in our corrosion test tank. It is the type of testing that produces very ugly but useful results. In testing, the magnesium link performs like any other manufactured magnesium bicycle part. In fact, it shared the tank with other manufacturers' bike linkage systems and fork parts. The truth is that exposed magnesium parts eventually corrode.

The link and the related assembly parts (bearings, shields, and axles) are subject to the "COMPONENTS" coverage described in the Cannondale Limited Warranty. See your *Cannondale Bicycle Owner's Manual*.

To maximize the useful life of the link :

- Avoid damaging the painted finish.
- After riding, clean and dry the link. Allowing moisture or contaminants to stand on the link will accelerate both atmospheric and galvanic corrosion - shortening its useful life.
- Store your bicycle out of the elements.
- When connecting the link assembly to the bicycle, always apply a thin film of bicycle bearing grease to both sides of each bearing to help repel moisture. When servicing the bearings, be very careful to not scratch or damage the link.
- Frequently inspect the link for signs of corrosion which can lead to a part failure.

Replacement

The following replacement links are available through a Cannondale Dealer.

| ORDER NO. | KIT DESCRIPTION |
|------------------|---|
| KP115/WHT | Complete Scalpel Magnesium Link Assembly (white) includes shock mounting hardware |
| KP115/RED | Complete Scalpel Magnesium Link Assembly (red) includes shock mounting hardware |