



Making suspension better for everyone.



**Models Included:**

**Domain**

**Dual Crown 2007-2017 – 35mm/200mm travel**

Thank You for purchasing an Avalanche Advantage Cartridge Kit. The following instructions are intended for those experienced with the mechanics of suspension service. Please follow the instructions carefully and thoroughly. If there are any please contact Avalanche Down Hill Racing for further assistance.

**Do not dispose of waste oil inappropriately! Contact your local recycling center for information on proper disposal.**

### **Disclaimer**

Avalanche Suspension Inc. is not responsible for any damages to you or others from riding, transporting or other use of your Avalanche Advantage Domain Cartridge Kit or mountain bike. User fully understands that mountain bike riding and/or racing is dangerous and hard on equipment. In the event your Avalanche Advantage cartridge kit fork breaks or malfunctions, Avalanche Suspension Inc. will assume no liability or obligation beyond the repair or replacement of your fork.

Before getting started you will need to locate the following tools and consumables

## **Tools, fluid and lubricants required to service and rebuild your Domain for the Avalanche Advantage Cartridge upgrade kit**

### **Tools:**

**6 point sockets:** 24mm, 15mm

**Open end wrench :** ½ in

Hex Keys : 2mm , 4mm, 5mm

[Snap Ring plier](#) (Craftsman Model Number #47412)

Small Flat blade Screw driver

Coat hanger or welding wire

Soft face hammer

In-Lbs Torque wrench

Graduated Cylinder (Optional)    Small tape measure or ruler

**Consumables:**

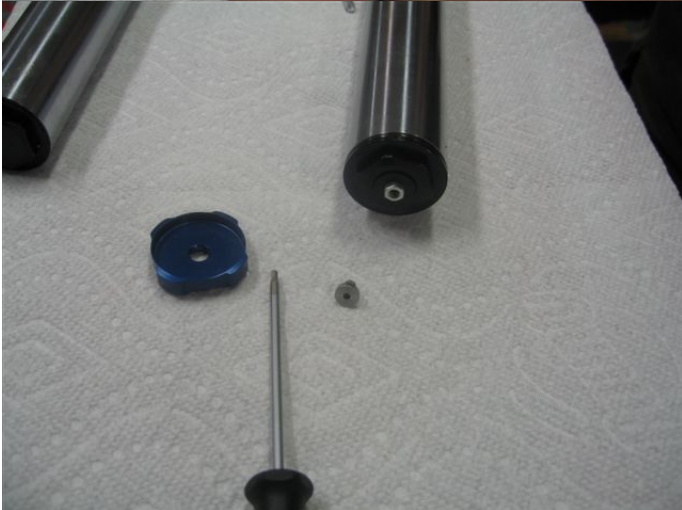
Rubber Gloves  
[Spectro oil 85/150](#)  
Shop rags  
Isopropyl alcohol  
Water proof grease



**Preparing your Domain for the  
Avalanche Advantage Cartridge upgrade kit**

The following steps will help guide you through the disassembly process and show you how to install the new cartridge:

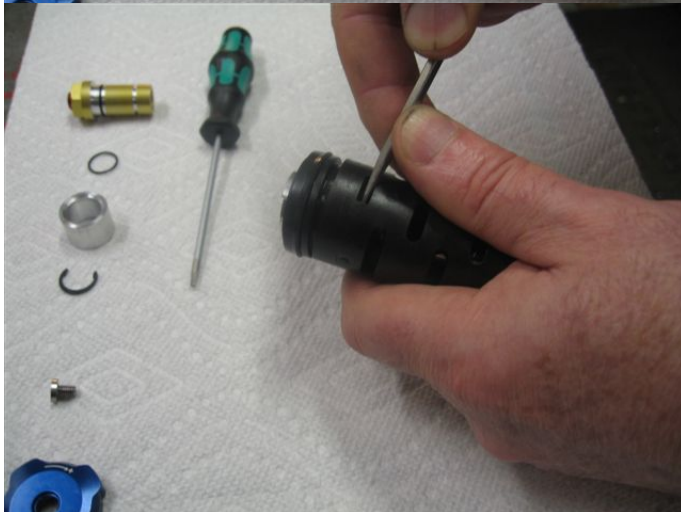
**Remove Damper side fork cap.**













Unthread the plastic tube from the fork cap, note that this is left handed threads









**Preparing your Domain Fork cap for the Avalanche Advantage Cartridge upgrade kit**

**Assemble Damper side fork cap.**



Slide the 11 mm o-ring all the way on the inside of the fork cap, this will act as a gap cushion to prevent movement under operation.







Install the sleeve with the chamfer end on first.





## **Preparing your Domain for the Avalanche Advantage Cartridge upgrade kit**

The following steps will help guide you through the disassembly process and show you how to install the new cartridge:

### **Remove Damper rod from lowers.**

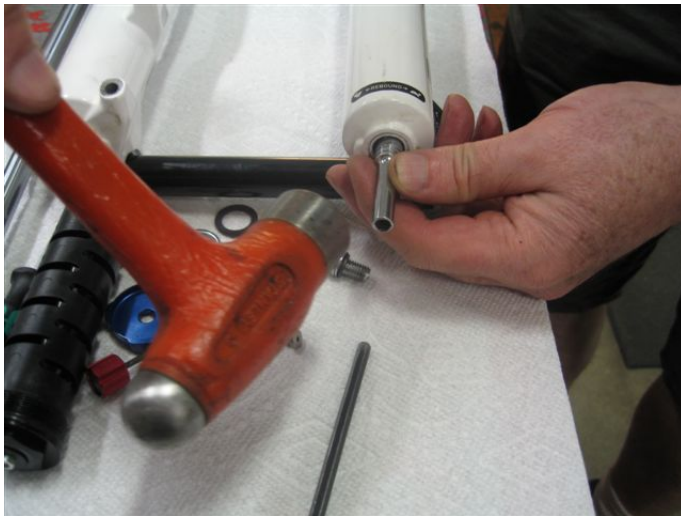


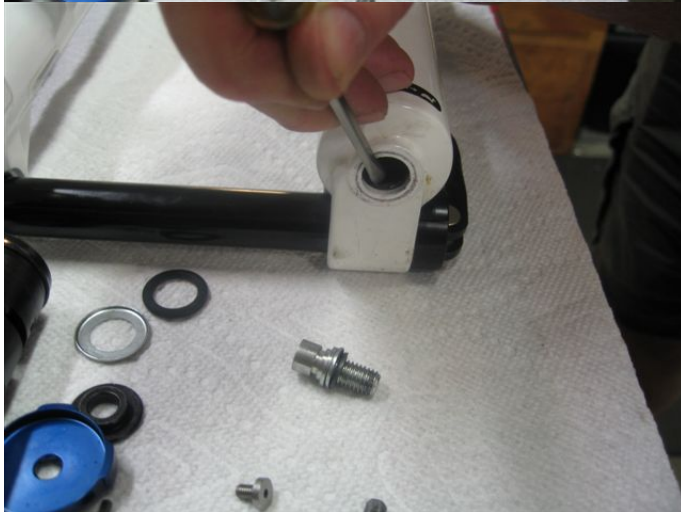




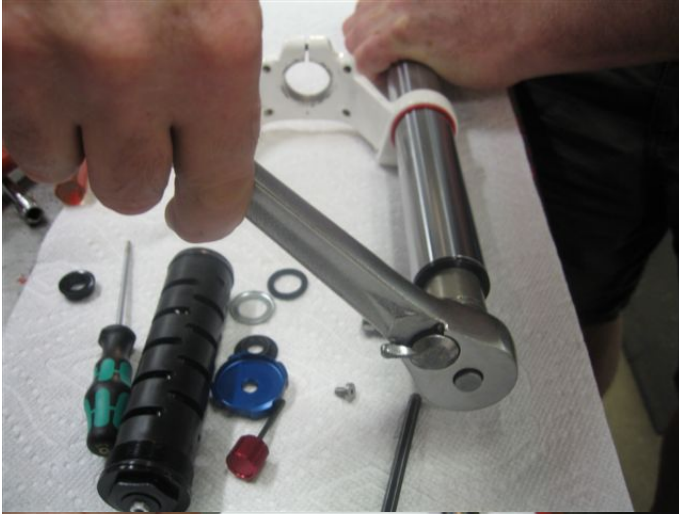


Punch out the internal insert.





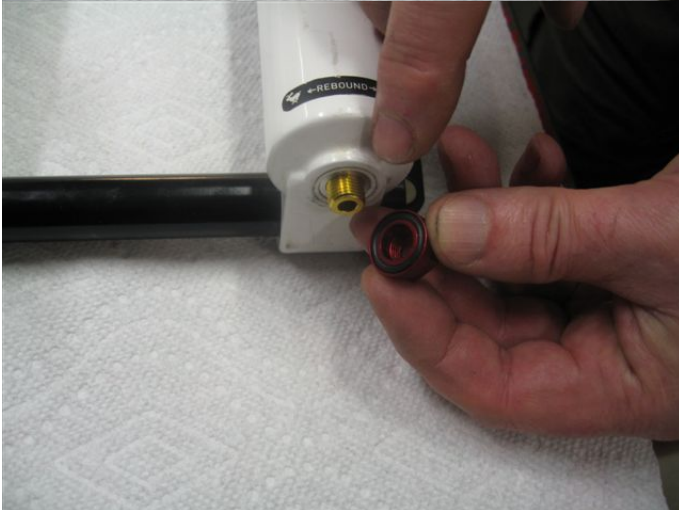
Remove the lower seal head, this is left hand threads.













Fill the stanchion tube as full as you can to help with the bleeding of the cartridge.





Bleed the cartridge rod and cycle the tube to remove air bubbles.



Pressurize the tube with your palm to help force the air bubbles out of the damper.





Screw the fork cap on the cartridge rod until it bottoms out on the rod



Insure the cap is screwed on all the way, there should be a gap between the blue jam nut and the gold adjuster cap.



Using a 15 mm wrench or socket and a 1/2 inch wrench tighten the jam nut, keep in mind they are thin aluminum parts and don't over tighten.









**The fork can now be reassembled with the crowns and installed on your frame as described by your owners manuals.**

Adjustments and internal settings are described in more detail in an additional Document. The fork cap adjuster is the low speed rebound and the standard setting is 11 clicks out (counterclockwise) from full hard. The bottom 10 mm adaptor bolt contains the low speed compression adjuster and the standard setting is 11 clicks out (counterclockwise) from full hard. It can be turn by inserting a small (3.75 mm wide max) flat blade screwdriver up into the lower leg gold adaptor bolt.

## **Set-up Options:**

### **Oil Type:**

Recommended oil:

[Golden Spectro 85/150 Cartridge Fork Fluid 5wt or equivalent](#)

Pro Honda HP Fork Oil 5wt

Pro Circuit Fork Fluid PC-01

Yamalube 01 Suspension Oil / KYB 01

Bel-Ray Fork Fluid 5wt

Motul Fork oil Factory Line 2.5 wt

There are many others that we have not tested but as long as they say for Cartridge Forks and or 85/150 rating they will work fine, all 5 wt fork oils are not the same so beware of lesser quality oils that may foam up easily

### **Oil level (outer): Dry assembly:**

Standard height: 130 mm from top fully compressed

Range 120-140 mm from top fully compressed

## **Compression and Rebound Settings:**

***These are rough starting points, adjustments will vary from rider to rider***

### **Standard:**

Rebound (fork top) 11 clicks out from full clockwise

Compression (fork bottom) 11 clicks out from full clockwise

### **Downhill roots/rocky conditions:**

Rebound 15 clicks out from full clockwise

Compression 17 clicks out from full clockwise

**Park Jump Lines smooth/drops conditions:**

Rebound 10 clicks out from full clockwise

Compression 8 clicks out from full clockwise

**[Revalving the Cartridge Kit:](#)**

*For more details see above link to 20 mm Cartridge Revalving Procedure:*

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