# Rocky Mountain Element Technical Manual

Rev B



# **Table of Contents**

Materials Re	equired	3
Suspension	Pivot Torque Guide	4
Small Parts	Torque Guide	5
Assembly In	nstructions	6
1) Beari	ing Installation	6
1.1 Mai	n Pivot	6
1.2 Top	Link & Chain Stay	6
2) Fram	e Assembly	7
2.1 Cha	ain Stay Installation	7
2.2 Top	Link Installation	8
2.3 Sea	at Stay Installation	9
2.4 Sho	ock Installation	10
3) Plast	ic Component Installation	11
3.1 Dov	vntube Cable Port	11
3.2 Hea	ad Tube Cable Ports	11
3.3 Cha	ain Stay Protector	12
3.4 Sea	at Stay Protector	12
4) Rear	Axle & Rear Derailleur Hanger	13
5) Cable	e Routing	14
5.1 Inte	rnal Cable Noise Damping Hose	14
5.2 Hea	ad Tube Port Cable Routing	15
5.3 Fra	me Cable Routing	15
6) Beari	ing Removal	16
6.1 Mai	n Pivot	16
6.2 Top	Link & Chain Stay	16

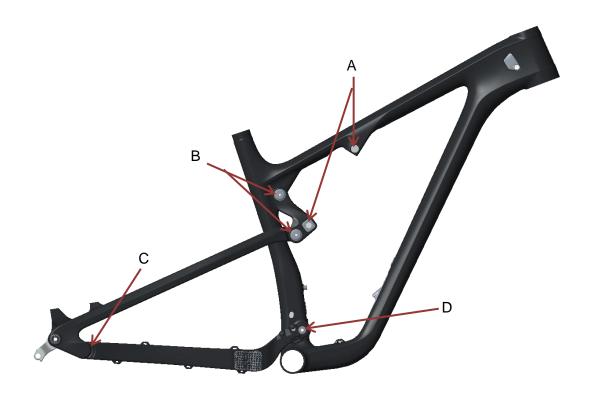
# **Materials Required**

- Rocky Mountain Element MY 2017 Frame
- 6900 Bearing Tool
- Loctite 243 (blue)
- Grease
- Torque Wrench
  - o 3mm, 4mm, and 6mm Hex Key Bits
- 4mm and 5mm Hex Keys
- Isopropyl Alcohol
- Clean Rags
- Blind Puller (10mm OD)

# **Suspension Pivot Torque Guide**

Note: All Torque values are +/-- 10%

Description		Part #	Location	Tool	Torque			Notes
					kg-cm	Nm	lb-in	Notes
А	Shock Bolts & Screws	1807049 & 180566-016 FBY	Top Link	5mm & 4mm Hex Keys	80			Torque only with correct shock and hardware installed. Apply grease to shock bolts, and Loctite 243 (blue) to screw threads.
		1807062 & 180566-016 FBY	Front Triangle	Two 4mm Hex Keys		8	70	
_	Top Link Bolts & Screws	1807047 & 180566-012 FBY	FT-TL Pivot	6mm & 4mm Hex 80 Key	00		70	Apply grease to pivot bolts, and Loctite 243 (blue) to screw threads.
В		1807048 & 180566-012 FBY	SS-TL Pivot		80	8		
С	Dropout Pivot Screws	1807046	Dropouts	6mm Hex Key	175	17	152	Apply Loctite 243 to female seat stay threads.
D	Main Pivot Bolt	1807045	Main Pivot	6mm Hex Key	175	17	152	Apply grease to inner bearing races and Loctite 243 to female chain stay threads.



# **Small Parts Torque Guide**

**Note:** All Torque values are +/-- 10%

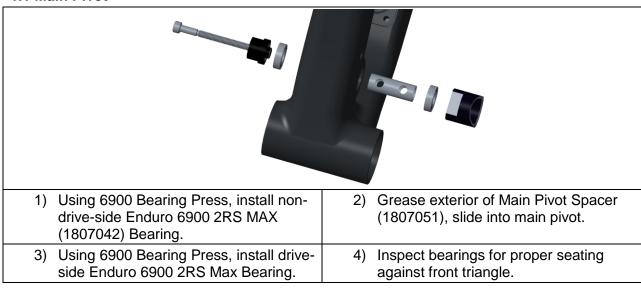
Description		Part #	Location	Tool	Torque			Notes
					kg-cm	Nm	lb-in	Notes
Е	Counter Sunk M5- 0.8x16mm	1806009	Head Tube Cable Port	3mm Hex Key	<9	<1	<8	Loctite 243 (blue). Tighten until snug.
			Downtube Cable Port					
F	Rear Axle Nut	1807046	Drive-Side Dropout	6mm Hex Key	204	20	177	Left hand thread, apply Loctite 243 (blue) to male threads.
G	Rear Axle	1807045	Non-Drive- Side Dropout	6mm Hex Key	104	10	90	Apply grease to axle shaft and threads. Use Stainless Steel Washer (3227006) on non-drive-side.



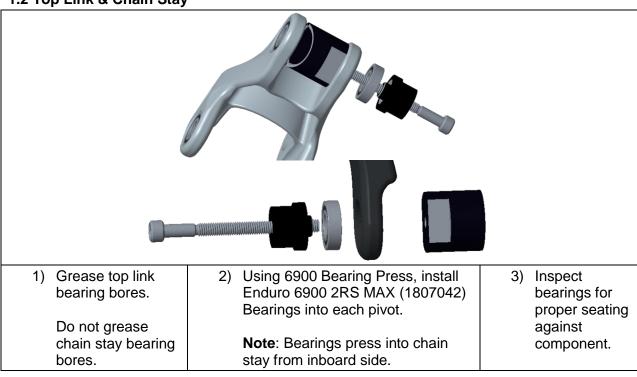
# **Assembly Instructions**

## 1) Bearing Installation

#### 1.1 Main Pivot



#### 1.2 Top Link & Chain Stay

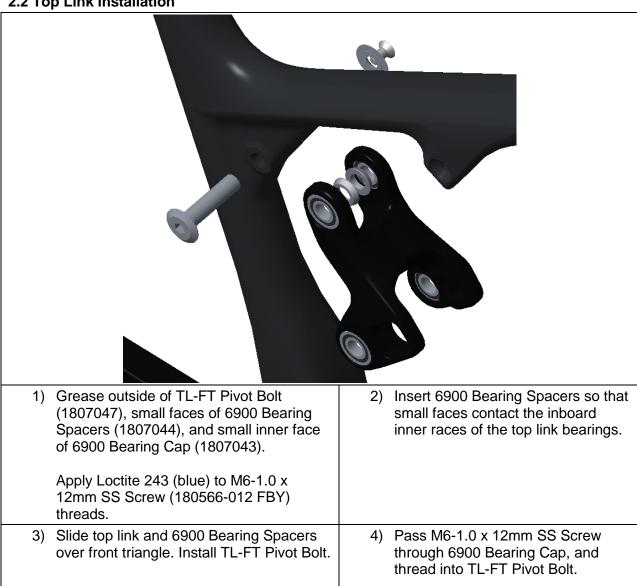


# 2) Frame Assembly

## 2.1 Chain Stay Installation

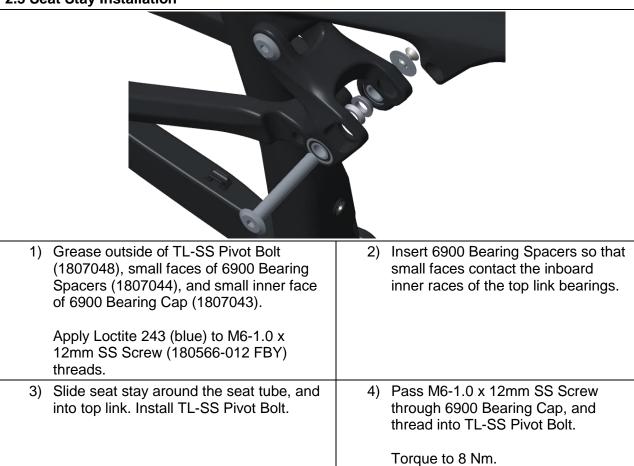


#### 2.2 Top Link Installation



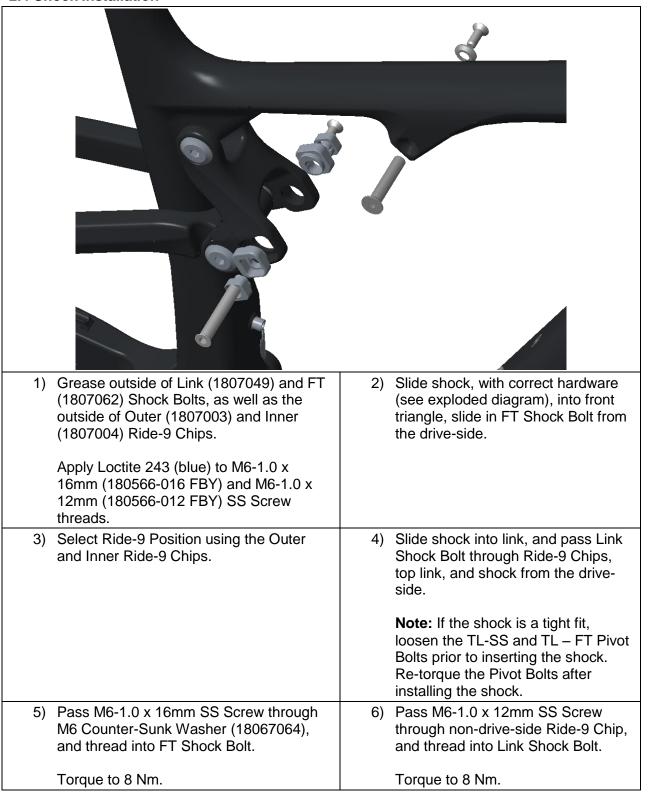
Torque to 8 Nm.

#### 2.3 Seat Stay Installation



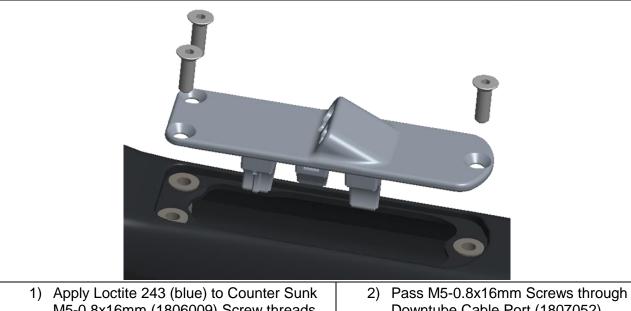


#### 2.4 Shock Installation



# 3) Plastic Component Installation

#### 3.1 Downtube Cable Port



- M5-0.8x16mm (1806009) Screw threads.
- Downtube Cable Port (1807052) and thread into front triangle.

Torque to snug (<1 Nm).

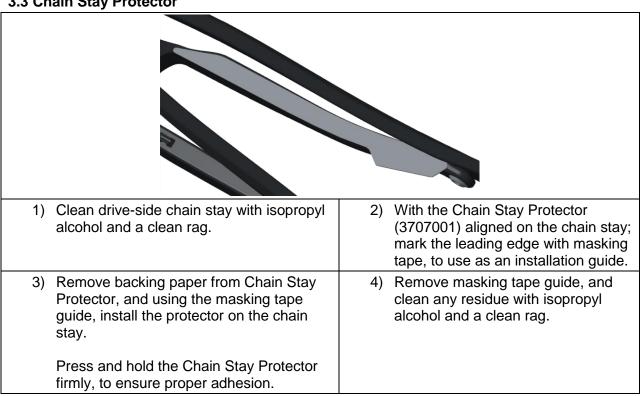
#### 3.2 Head Tube Cable Ports



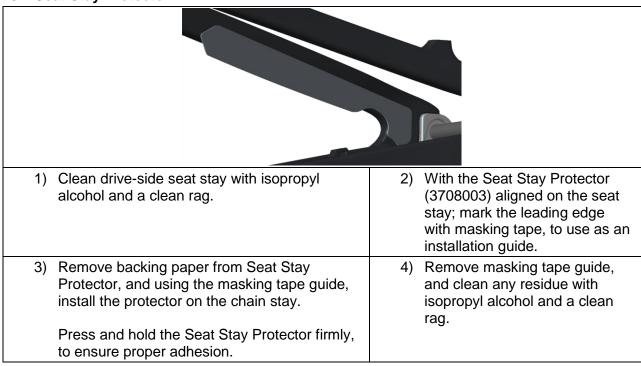
- 1) Apply Loctite 243 (blue) to Counter Sunk M5-0.8x16mm (1806009) Screw threads.
- 2) Pass M5-0.8x16mm Screws through Drive-Side (1087140) and Non-Drive-Side (1097136) Head Tube Cable Ports and thread into front triangle.

Torque to snug (<1 Nm).

#### 3.3 Chain Stay Protector



#### 3.4 Seat Stay Protector



## 4) Rear Axle & Rear Derailleur Hanger



## 5) Cable Routing

#### 5.1 Internal Cable Noise Damping Hose

We recommend our riders install our Foam Tubes to damp cable noise within the frame.

**Note:** Only the one cable is shown in this image for clarity.



 Pour isopropyl alcohol down Foam Tube to lubricate foam tube.

Foam Tube for 4mm Housing (3337001).

Foam Tube for 5mm Housing (3337002).

2) Slide one Foam Tube over each internal cable, prior to routing cables through frame.

**Note:** The Foam Tubes do not fit through either the head tube or down tube cable ports.

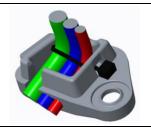
## 5.2 Head Tube Port Cable Routing

#### **Colour Coding:**

Green – 5mm Hose (hydraulic lines or smaller)

Blue – 4mm Housing (mechanical shift cable housing or smaller)

Red – 3mm Cable (electronic cables or smaller)



**Note:** Use a zap-strap to affix cables before installing port, as shown.

#### **5.3 Frame Cable Routing**



#### **Colour Coding:**

Green - Brake Hose

Orange - Internal Dropper Post Hose

Purple - Shock Remote

Blue – Side Swing Front Derailleur Cable

Red - Di2 Front Derailleur Cable

Pink – Rear Derailleur Cable

# 6) Bearing Removal

#### **6.1 Main Pivot**



1) Use a blind puller seated against the bearing inner races to remove main pivot bearings.

#### 6.2 Top Link & Chain Stay

