TABLE OF CONTENTS

1. Tools needed & Spare Parts Kit 5
2. Troubleshooting / Tips & Specifications 6
3. Frameset Inspection 7
4. Frameset Skus & Descriptions 8-9
5. SeatPost Min. & Max. Insertion 10
6. SeatPost Assembly 11-12
7. Rear Derailleur Hanger Installation 13
7.1. Front Derailleur Hanger Installation 14
8. 3D Headset Assembly 15
9.1. Frame routing - Mechanical 16
9.2. Frame routing - eTap 17
9.3. Frame routing - Di2 18
10.1. Front Brake Routing 20
10.2. Rear Brake Routing 21
11. Fork Assembly 22
12. Bottom Bracket Cover Installation 23
13.2. Routing - Token Integrated Cockpit System 25

For the warranty to be valid, the bicycle must be fully assembled by an authorized Argon 18 dealer. High-end components, such as carbon parts, require extra care during assembly.

These components must be installed using a torque wrench to ensure each bolt is at the specified torque setting to prevent damage.

MY SUM

Date of Purchase: ________________________
Retailer: _______________________________
Size: ___________________________________
Serial Number: _________________________
1. **TOOLS NEEDED & SPARE PARTS KIT**

1. Hydraulic Hose Cutter
2. Set of Allen Key
3. Flush Cut Plier
4. Carbon Paste & Grease
5. Utility Picks
6. Clean Rag
7. Derailleur Hanger Alignment Gauge
8. Cables and Housing Cutter
9. Medium-strength Thread Locker
10. Isopropyl Alcohol
11. Torque Wrench
12. Cassette Lockring Tool
13. 8mm Wrench
13. Bleed Kit
14. Set of Torx Key
15. Mineral Oil
16. Headset Press

---

**SPARE PARTS KIT**

![Important: Essential parts to always have on hand in case of emergency... this might save your ride!]

1. Seat Post Clamp
2. Rear Derailleur hanger
3. Rear Derailleur hanger Direct Mount
4. Drive Side Rear Dropout
2. TROUBLESHOOTING / TIPS & SPECIFICATIONS

Brakes
Rear brake - 140/160mm disc rotors
Front brake - 140/160mm disc rotors

Tire Clearance
The biggest tires that can be installed are 700x30c, they must be no wider than 32mm, for the front and rear wheels.

Seat Post
Argon 18 exclusive D shape seatpost is only compatible with the SUM frame.

Saddle Clamp
The saddle clamp is compatible with both Ø 7mm round and oval saddle rail.

Bottom Bracket
BB86 (Press-fit)

Headset
Top Bearing: MR127 - 1 1/2", 36° x 45° Stainless Steel
Bottom Bearing: MR127 - 1 1/2", 36° x 45° Stainless Steel

Chainring
The SUM family is designed to work with round or oval chainring with 50 to 57 teeth and the equivalent max OD of a 57T chainring.

Seat Post Collar
Argon 18 exclusive, SUM seatpost clamp is NOT the same as the Nitrogen, E-117 and E-119 or any other seat clamp model.

Power Meter
The SUM is designed to work with the majority of the powermeters available on the market.

For Hub/Wheel based power meters:
The system must be compatible with a 12mm x 142mm rear thru-axle.

Please contact your local Argon 18 authorized retailer for confirmation before purchasing.

Please contact customer service at info@argon18.com for any further inquiries.

Always clamp the bike by the seatpost. Clamping it by any other tube might damage the frame and could cause an accident and/or injury.
3. FRAMESET INSPECTION

Before assembling your new S1M, please:

1. Check your parts against the frameset parts checklist (see p.8).
2. Inspect the frame for cosmetic defects (scratches, bumps, cracks, paint defects, etc.).
3. Record serial number on p.4 for reference.
4. Make sure you have all the necessary bolts (refer to frameset parts, p.8).

For optimal shifting performance, use a derailleur alignment gauge to make sure that the derailleur hanger is straight.

Some of the following parts are already assembled on the frame. When assembling the bike, you will need to adjust these parts according to their torque specifications and fastener conditions when necessary.

<table>
<thead>
<tr>
<th>No.</th>
<th>A18 SKU#</th>
<th>Function</th>
<th>Description</th>
<th>Screw Type</th>
<th>Torque</th>
<th>Detail</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>81248</td>
<td>Front derailleur hanger screw</td>
<td>M5 x 16mm Screw</td>
<td>Flat head</td>
<td>3 Nm</td>
<td>Grease</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>100150</td>
<td>Rear derailleur hanger screw</td>
<td>M3 x 8mm Screw</td>
<td>Flat head</td>
<td>2 Nm</td>
<td>Loctite</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>100158*</td>
<td>Seat post clamp top screw</td>
<td>M8 x 10mm Screw</td>
<td>Set screw</td>
<td>5.5 Nm</td>
<td>Grease</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>100158*</td>
<td>Seat post clamp bottom screw</td>
<td>M3 x 6mm Screw</td>
<td>Button head</td>
<td>Hand Tighten Slack</td>
<td>Loctite</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>100154*</td>
<td>Saddle clamp screw</td>
<td>M5 x 40mm Screw</td>
<td>Socket head</td>
<td>6 Nm</td>
<td>Grease</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>80807</td>
<td>Water bottle screw</td>
<td>M5 x 18mm Screw</td>
<td>Socket head</td>
<td>3 Nm</td>
<td>Grease</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>100161</td>
<td>Front Thru Axle</td>
<td>M12 x P1.5 x 119mm Axle</td>
<td>-</td>
<td>15 Nm</td>
<td>Grease</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>100160</td>
<td>Rear Thru Axle</td>
<td>M12 x P1.5 x 161mm Axle</td>
<td>-</td>
<td>15 Nm</td>
<td>Grease</td>
<td>1</td>
</tr>
</tbody>
</table>

* Included With

**IMPORTANT:**
Indicates special precautions and important steps that must be taken to avoid damages and/or injuries.

- **Torque Value**
- **Allen key size**
- **Apply carbon paste** on the indicated surfaces.
- **Apply threadlocker** on the indicated surfaces.
- **Apply grease** on the indicated surfaces.

For troubleshooting and FAQ, please visit:
https://www.parktool.com/blog/repair-help
### 4. FRAMESET SKUS & DESCRIPTIONS

<table>
<thead>
<tr>
<th>NO.</th>
<th>NAME</th>
<th>A18 SKU#</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SUM Pro Frame -OR- SUM Frame</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>SUM Chain Suck Guard</td>
<td>100145</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>SUM Bottom Bracket cover</td>
<td>100146</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>SUM Drive Side Rear Dropout</td>
<td>100147</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>SUM Rear Derailleur Hanger</td>
<td>100148</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>SUM Rear Derailleur Hanger direct mount</td>
<td>100149</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Front Derailleur Hanger removable</td>
<td>81238</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Front Derailleur Plug</td>
<td>81240</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Front Derailleur Cable Stopper</td>
<td>81242</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Long Grommet Mech</td>
<td>80985</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>Long Plug</td>
<td>80804</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>Long Grommet Di2</td>
<td>80805</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>Oblong Cable Guide</td>
<td>80551</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Water Bottle Screw - M5 x 18mm</td>
<td>80807</td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td>Plastic Plug M5</td>
<td>80264</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>SUM Pro Fork (S-M-L-XL), 44mm rake -OR- SUM Fork (XXS-XS), 48mm rake</td>
<td>FK.SUMP.S-XL.352A / FK.SUMP.XXS-XS.352A / FK.SUMP.X-XL.352B / FK.SUMP.XXS-XS.352B</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>SUM Pro Fork (S-M-L-XL), 44mm rake -OR- SUM Fork (XXS-XS), 48mm rake</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>SUM Pro / SUM seatpost assembly</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>SUM Seatpost shaft monocoque carbon (valid for 352A, 353A, 353B)</td>
<td>100151</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>SUM Seatpost cradle + top clamp</td>
<td>100153</td>
<td>1 kit</td>
</tr>
<tr>
<td>20</td>
<td>SUM Seatpost saddle hardware (Barrel+Bolts)</td>
<td>100154</td>
<td>1 kit</td>
</tr>
<tr>
<td>21</td>
<td>SUM Battery Holder set</td>
<td>100155</td>
<td>1 kit</td>
</tr>
<tr>
<td>22</td>
<td>3D Headset Column IST2</td>
<td>100156</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>3D Headset Column 25mm</td>
<td>100361</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>3D Headset Column 15mm</td>
<td>100362</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>SUM Seatpost wedge assembly</td>
<td>100158</td>
<td>1</td>
</tr>
<tr>
<td>26</td>
<td>Axle GW Rear 161x12 - SB-02 LITE &amp; HOLLOW</td>
<td>100160</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td>Axle GW Front 119x12 - SB-02 LITE &amp; HOLLOW</td>
<td>100161</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>Removable lever for GW thru axle 12mm</td>
<td>81054</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>Foam liner for hydraulic hose</td>
<td>80811</td>
<td>3</td>
</tr>
</tbody>
</table>
4.1 FRAMESET PARTS

*Not available separately

*Except for the frame itself, which is not sold separately as a spare part, all parts can be ordered by using their respective SKU number.
5. **SEATPOST MIN. & MAX. INSERTION**

Refer to the adjacent table for details on saddle height and seatpost insertion limits:

i. The correct frame size must be determined according to the saddle height limits.

A. Maximum Saddle Height.
B. Minimum Saddle Height.

ii. Depending on the size of the frame and the desired saddle height, the seatpost might need to be cut.

If the desired saddle height is lower than value “C”, Calculate the required cutting length “G” as follow:

\[ G = C - \text{Desired saddle height} + 10 \text{mm (to allow adjustment)} \]

**Example:** For a desired saddle height of 650mm on a Small frame, the required minimum seatpost cut length (G) is:

\[ G = 686 - 650 + 10 = 46 \text{ mm} \]

**Important:** In any case the saddle height can be lower than value “B”.

### SADDLE HEIGHT LIMITS (MM)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>Max Saddle Height</th>
<th>Min Saddle Height</th>
<th>Min Saddle Height (Without cut)</th>
<th>Min Seatpost Insert</th>
<th>Max Seatpost Insert</th>
<th>Max Seat tube Cut</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX-SMALL</td>
<td>715</td>
<td>565</td>
<td>636</td>
<td>80</td>
<td>150</td>
<td>71</td>
</tr>
<tr>
<td>X-SMALL</td>
<td>745</td>
<td>595</td>
<td>670</td>
<td>80</td>
<td>155</td>
<td>75</td>
</tr>
<tr>
<td>SMALL</td>
<td>780</td>
<td>630</td>
<td>686</td>
<td>80</td>
<td>174</td>
<td>56</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>825</td>
<td>675</td>
<td>688</td>
<td>80</td>
<td>217</td>
<td>13</td>
</tr>
<tr>
<td>LARGE</td>
<td>870</td>
<td>720</td>
<td>720</td>
<td>80</td>
<td>263</td>
<td>0</td>
</tr>
</tbody>
</table>

**Based on saddle with 50mm between center of rail to top.**
**6. SEATPOST ASSEMBLY**

**The seat post is supplied fully assembled**

1. Loosen the two M5 x 40mm screw to allow the seat post head assembly to move.

2. Apply a drop of blue Threadlocker (n. 242) on the M5 x 40mm screw thread.

3. Apply Carbon paste on the curved face of the seatpost shaft.

4. Install the saddle rails into the seatpost clamp.

5. Adjust the angle of the saddle and tighten the M5 x 40mm screw at 6Nm.
6.1 SEATPOST INSTALLATION

1. Apply grease on the lower angle surface of the seat post collar.
2. Apply a drop of blue Threadlocker (n. 242) on the M3 x 6mm screw thread.
3. Hand tighten the M3 x 6mm screw and make a 1/4 turn back, making sure the wedge (a) is allowed to slide.
4. Apply grease on the thread of the M8 x 10mm set screw.
5. Screw the M8 x 10mm set screw in place.
6. Slide the rubber cover onto the wedge assembly.
7. Adjust the angle of the seatpost wedge cover to make it flush with the frame surface.
8. Adjust the seatpost at the desired height. Make sure to follow the seatpost min and max insertion. (p. 10)
9. Insert the wedge assembly into the frame.
10. Tighten the M8 x 10mm set screw of the seat post clamp to 5.5Nm.

IMPORTANT:
Refer to p.10 for seatpost MIN and MAX insertion limits.
**7. REAR DERAILLEUR HANGER INSTALLATION**

**Assembling with a regular hanger:**

1. Assemble the rear derailleur hanger on the frame with the Dropout DS.
2. Apply a drop of blue Threadlocker (n. 242) on the M3x8mm screw threads and tighten to 2Nm.
3. Use a rear derailleur hanger alignment gauge to align the rear derailleur hanger. (If necessary)

**Assembling with a direct mount hanger:**

1. Assemble the rear derailleur hanger (SKU: 100149) on the frame with the Dropout DS.
2. Apply a drop of blue Threadlocker (n. 242) on the M3 x 8mm screw threads and tighten to 2Nm.
3. Use a rear derailleur hanger alignment gauge to align the rear derailleur hanger. (If necessary)

For assistance, visit Park Tool’s website at: [https://www.parktool.com/blog/repair-help/rear-derailleur-hanger-alignment](https://www.parktool.com/blog/repair-help/rear-derailleur-hanger-alignment)
7.1 FRONT DERAILLEUR HANGER INSTALLATION

Using a Double Chainring Set-Up:

1. Apply grease on the thread of both M5 x 16mm screws.
2. Assemble the front derailleur hanger (SKU: 81238) on the frame with the two bolts.
3. Tighten the two M5x16mm screws to 3Nm.

Note: The Front derailleur hanger has been designed to work with 50 to 57 teeth round chainrings or oval chainrings with an equivalent max OD of a 57T round chainring.

Using a Single Chainring Set-Up:

1. Insert the plastic plug (SKU: 81240) onto the front derailleur hanger inserts.
8. 3D HEADSET ASSEMBLY

Assembling 3D headset (+15mm & +25mm)

1. Insert the plastic column onto the 3D headset cup. (SKU: 100156)
2. Sit the 3D headset (SKU: 100361 or 100362) perfectly straight on the headtube opening.
3. Slowly press the cups into the frame using a headset press + adaptor until it sits flush with the frame.

IMPORTANT:
Make sure to use a headset press adaptor to protect the frame.
9.1 FRAME ROUTING - MECHANICAL

1. Guide the rear cable housing starting through the hole in the rear right chainstay all the way up to the headset opening. Pass the housing **above** the bottom bracket shell.

2. Guide the front cable housing starting through the headset opening all the way down to the bottom bracket opening **under** the bottom bracket shell. Let the housing hang out the frame.

3. Install the housing end and the cable stopper (81242) onto the housing.

4. From inside stick the head of the cable stopper into the frame hole.

5. Slide foam liners (80811) onto both housing until they reach the bottom bracket shell.

**IMPORTANT:**
The front derailleur can also be routed **full housing** with a cable stop integrated front derailleur. (Shimano only)
Use another mech. grommet (80985)
1. Insert the three plug grommets onto front (2x) and rear (1x) derailleur cable holes. (80804)
1. Using as fishing cable*, guide all four Di2 wires from their respective opening to the bottom bracket opening (under the frame). Pass all the wires behind the bottom bracket shell and let them hang out the frame by the opening.

2. Connect all the wires to the JC-41 junction box and gently push the box into the frame.
9.3 FRAME ROUTING - DI2

1. Wrap the battery holder around the Di2 battery.
2. Connect the battery to the system.
3. Insert the battery inside the seatpost shaft until the lips sits on the bottom of the shaft.
4. Insert the Di2 grommets onto front and rear derailleur wires. (80805)

TIPS:
Use a gear cable and a metal cable end to fix and pull the Di2 wires through the frame.
1. Guide the hydraulic housing through the hole in the fork’s brake mount recess and pull it out from the **steerer bottom hole**.

2. Guide the hydraulic housing through the hole in the fork’s brake mount recess and pull it out from the **steerer column top**.

**IMPORTANT:**
You have to route the front brake accordingly to which integrated headset you install.

**Front Brake**
10.2 REAR BRAKE ROUTING

1. Guide the rear brake housing starting through the hole in the rear left chainstay all the way up to the headset opening. Pass the housing under the bottom bracket shell.

2. Slide foam liners (80811) onto the brake housing until it reach the bottom bracket shell.
II. FORK ASSEMBLY

1. Apply grease onto all the surfaces where bearing sit (frame & fork)
2. Insert the fork steerer and front brake housing through the bottom bearing (MR127).
3. Slide the fork steerer into the frame headtube.
4. Insert the top bearing (MR127) onto the steerer and into the frame.
5. Pass every housing and/or wires through the top bearing.
12. BOTTOM BRACKET COVER INSTALLATION

1. After installing all the cables routing, insert the bottom bracket cover.
13.1 ROUTING - ACR INTEGRATED COCKPIT SYSTEM

*Integrated headsets are not included in the frameset.
13.2 ROUTING - TOKEN INTEGRATED COCKPIT SYSTEM

*Integrated headsets are not included in the frameset.