

English

SERVICE PART GUIDE

TURBO LEVO 4



INDEX

| | |
|--|----|
| 1. COMPATABILITY SPECIFICATIONS | 2 |
| 2. WEIGHT LIMITS | 2 |
| 3. COMPONENTS | 3 |
| 4. TORQUE SPECIFICATIONS | 5 |
| 5. REAR TRIANGLE | 7 |
| 5.1. Bearings and Spacers | 7 |
| 5.2. Suspension Bearing And Spacer Specifications | 8 |
| 5.3. Bolts, Axle, Washers, and Flip Chips | 9 |
| 5.4. Rear Triangle Assembly - Bearings | 11 |
| 5.5. Rear Triangle Assembly - Chainstay | 12 |
| 5.6. Rear Triangle Assembly - Main Pivot | 13 |
| 5.7. Rear Triangle Assembly - Link at Seat Tube & Link at Seatstay | 14 |
| 5.8. Rear Triangle Assembly - Seatstay at Horst Pivot | 15 |
| 5.9. Rear Triangle Assembly - Rear Shock | 16 |
| 5.10. Rear Triangle Assembly - Rear Shock Extension | 17 |
| 5.11. Rear Triangle Assembly - Mudflap | 18 |
| 5.12. Battery Receiver | 19 |
| 5.13. Battery Receiver - Assembly | 20 |
| 6. BATTERY AND MOTOR | 22 |
| 6.1. Chargeport Door Assembly | 22 |
| 6.2. Motor Assembly | 23 |
| 6.3. Motor Assembly - Motor Bolts | 24 |
| 6.4. Rock Guard | 26 |
| 6.5. Battery Cover Assembly | 27 |
| 7. DRIVETRAIN | 28 |
| 7.1. Chainguide Assembly | 28 |
| 7.2. Spider & Chainwheel | 29 |
| 8. HEADSET STACK | 30 |
| 8.1. Headset | 30 |
| 8.2. Fork Assembly | 31 |
| 8.3. Swat bag Mount | 32 |
| 9. MASTERMIND T3 | 33 |
| 9.1. Display Installation | 33 |
| 9.2. Top Tube Cable Wrap | 34 |
| 9.3. ICR Ports | 35 |
| 10. RANGE EXTENDER & BOTTLE CAGE | 36 |
| 11. WIRING DIAGRAMS | 37 |
| 11.1. Base Model | 37 |
| 11.2. Base Model - with Light | 38 |
| 11.3. AXS Equipped | 39 |
| 11.4. AXS Equipped - with Light | 40 |
| 12. SYSTEM OVERVIEW | 41 |
| 12.1. BASE MODEL | 41 |
| 12.2. AXS EQUIPPED | 42 |
| 12.3. BASE MODEL WITH LIGHT | 43 |
| 12.4. AXS Equipped - with Light | 44 |
| 13. WHEELS AND HUBS | 45 |
| 13.1. Levo Alloy / LEVO COMP ALLOY / LEVO COMP CARBON | 45 |
| 13.2. Levo EXPERT CARBON | 46 |
| 13.3. Levo PRO CARBON | 47 |
| 13.4. Levo S-Works CARBON | 48 |
| 13.5. Levo S-Works LTD CARBON | 49 |
| 14. ADDITIONAL SERVICE PARTS | 50 |
| 14.1. Battery Doors By Model / Color | 50 |

SPECIALIZED BICYCLE COMPONENTS | 15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229
0000215278_SP6_R1 08/24

We may occasionally issue updates and addendum to this document. Please periodically check www.specialized.com or contact Rider Care to make sure you have the latest information.

SYMBOLS LEGEND

-  CAUTION FOR POTENTIAL HAZARDOUS SITUATION
-  IMPORTANT INFORMATION
-  TECHNICAL TIP
-  USE HIGH-QUALITY GREASE
-  USE HIGH-QUALITY CARBON ASSEMBLY PASTE
-  USE HIGH-QUALITY BEARING RETAINING COMPOUND
-  USE EVERSEAL 183 THREADLOCKER
-  USE BLUE THREADLOCKER
-  USE ANTI-SEIZE COMPOUND
-  USE DIELECTRIC GREASE ON ELECTRIC CONNECTORS
-  APPLY TORQUE USING TORQUE WRENCH
-  DO NOT TORQUE BOLT
-  LEFT HAND THREADED BOLT
-  ASSEMBLY DIRECTION
-  ASSEMBLY PATH
-  ASSEMBLY ORDER
-  TORQUE ORDER

[S225000009](#) SERVICE PART NUMBER - HYPERLINK TO B2B

COMMENTS OR FEEDBACK? Click [HERE](#) to share feedback or errors relating to this document with the Technical Writing team.

1. COMPATABILITY SPECIFICATIONS

| COMPONENT | COMPATIBLE SIZES/SPECS | |
|---------------------------------------|--|--|
| Min / Max Front Rotor | 200 mm / 220 mm with adapter | |
| Min / Max Rear Rotor | 200 mm / 220 mm with adapter | |
| Rear Hub Spacing | 148 mm | |
| Front Hub Spacing | 110 mm | |
| Chainring OE Spec | 34T | |
| Min Chainring | 32T | |
| Max Chainring | 36T | |
| Water Bottle Cage | Zee cage for Range Extender | |
| Seat Collar Diameter | 38.6 mm | |
| Wired Front Light | 24W / 12V (Y-splitter required) | |
| Swat Bag | S2 / S3 small bag S4 / S5 / S6 large bag | |
| Seatpost Diameter | 34.9 mm 30.9 mm (shim required) | |
| Headset Upper Bearing | 41.8 mm x 30.5 mm x 7 mm, 45° x 45° | |
| Headset Lower Bearing | 52 mm x 40 mm x 7 mm, 45° x 45° | |
| Handlebars | S2 :35 mm 800 width, 30mm rise / S3~S6: 35 mm 800 width, 40mm rise | |
| Stem Steerer Diameter | 28.6 mm OD | |
| Max Rear Tire | 27.5 x 2.6 in | |
| Rear Wheel Travel | 150 mm | |
| Shock Length / Stroke | 210 mm / 55 mm | |
| Min/Max Fork Travel | 160 mm - 180 mm | |
| Bottle Clearance | 24 oz bottle for S1-S6, 26 oz bottle S-3-S6 | |
| Steerer Tube Protector | S2 61 mm S3 66 mm S4 81 mm S5 96 mm S6 113 mm | |
| SWAT MTB Tool Bow Tie Anchor and Bolt | S1/S2 105 mm S3/S4 120 mm S5 135 mm S6 150 mm | |

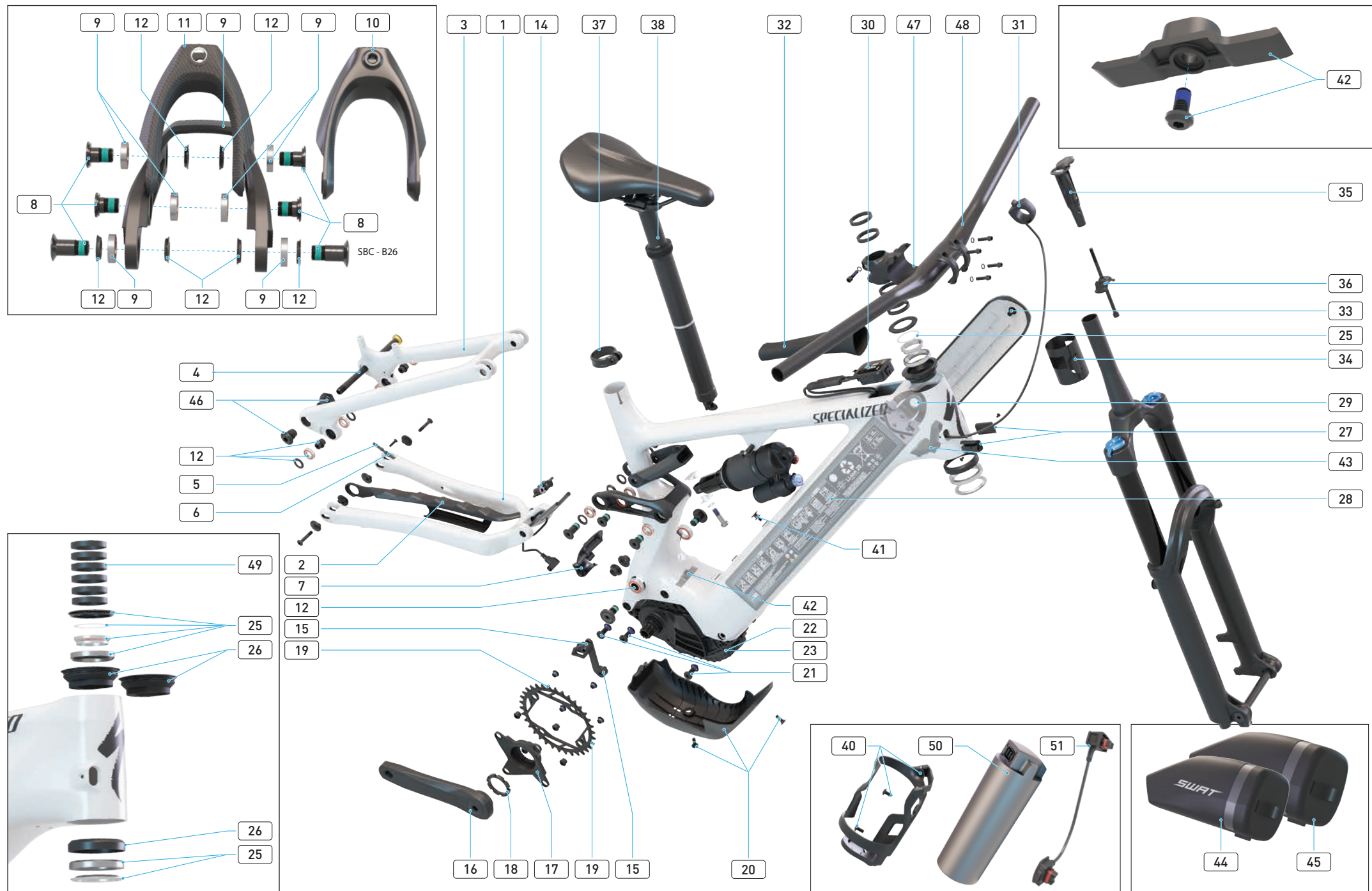
2. WEIGHT LIMITS

| MODEL | CARGO WEIGHT LIMIT kg / lb | | STRUCTURAL WEIGHT LIMIT kg / lb |
|--|-------------------------------|-------|------------------------------------|
| | REAR | FRONT | |
| Levo 4 S-Works LTD Levo 4 S-Works Carbon Levo 4 Pro Carbon | 2.3 kg / 5 lbs | | 125 / 275 |
| Levo 4 Expert Carbon Levo 4 Comp Carbon | | | 125 / 275 |
| Levo 4 Alloy Levo 4 Comp Alloy | | | 136 / 300 |

CARGO WEIGHT LIMIT: The maximum cargo weight a bicycle has been designed and tested to support structurally.

STRUCTURAL WEIGHT LIMIT: The maximum total weight (rider, and cargo) a bicycle is designed and tested to support structurally.

3. COMPONENTS



| | ASSEMBLY | PART | QTY | PART # | ALT PART # | DETAIL | | ASSEMBLY | PART | QTY | PART # | ALT PART # | DETAIL | | | | |
|----|------------------------------------|--------------------------------|------------|----------------------------|----------------------------|-------------------------|--------------------|---|--|--------------------------------|----------------------------|----------------------------|----------------------------|-------------------------|---|----------------------------|--|
| 1 | Chainstay Carbon | Carbon chainstay | 1 | S221500016 | | Page 12 | 16 | Crank Arms - 160 mm Carbon / 155 mm Alloy | | 2 | S241600006 | S241600011 | Page 29 | | | | |
| | | Cable Guide Tube | 2 | | | | 17 | Spider - 104 Bcd | | 1 | S225100005 | | | | | | |
| | Chainstay Alloy | Alloy Chainstay | 1 | S221500015 | | | 18 | Spider Lock Ring | | 1 | S245100001 | | | | | | |
| | | Cable Guide Tube | 2 | | | | 19 | Chain Ring 34T - with Bolts | | 1 | S231400002 | | | | | | |
| 2 | Chainstay Protector | | 1 | S226900008 | | | 20 | Rock Guard kit | Rock Guard | 1 | S229900026 | | Page 26 | | | | |
| 3 | Seatstay Carbon | Carbon seatstay | 1 | S225000010 | S240600003 | Page 11 | | | Rock Guard Bolt | 2 | | | | | | | |
| | | Seatsay Bearing | 4 | | | | | 21 | Motor Mounting Hardware Kit | Motor Mounting Bolt | 6 | S240500008 | | Page 24 | | | |
| | | Seatstay Bearing Step Spacer | 2 | | | | | | Motor Mounting Washer | 6 | | | | | | | |
| | Seatstay Alloy | Alloy seatstay | 1 | S225000009 | S240600003 | | 22 | Motor - Gen 3 | | 1 | S226800019 | | Page 23 | | | | |
| | | Seatsay Bearing | 4 | | | | 23 | S-Works Motor - Gen 3 | | 1 | S246800025 | | | | | | |
| | | Seatstay Bearing Step Spacer | 2 | | | | | 24 | Float X Genie Rear Shock | | 1 | Model Specific | | Page 16 | | | |
| 4 | Rear Thru-Axle | | 1 | S240200001 | | | 25 | Headset | Top Cap Micro Shim Compression Ring Upper Bearing Lower Bearing Crown Race | 1 | S242500004 | | Page 32 | | | | |
| 5 | Speed Sensor Cable | | 1 | S246800018 | | Page 12 | | | | | | | | | | | |
| 6 | Speed Sensor Grommet & Bolt Kit | Speed sensor grommet | 1 | S246800015 | | Page 15 | 26 | Adjustable Geo Headset Cups | Upper Headset Cup 0°(Default) | 1 | S212500015 | | | | | | |
| | | Speed Sensor Bolt | 1 | | | | | | Upper Headset Cup +/-1° | | | Lower Headset Cup | | | | | |
| 7 | Chainstay mudguard kit | Mudguard | 1 | S226900009 | | Page 18 | 27 | ICR Ports Kit | Headtube ICR Ports | 2 | S246500007 | | Page 36 | | | | |
| | | MudguardBolt | 2 | | | | 28 | Main Battery - SBC - B26 SBC - B34 | | 1 | 98924-5681 | | | Page 27 | | | |
| 8 | Suspension Pivot Bolt Kit | Main Pivot Bolt Drive Side | 1 | S240500010 | | Page 9 | 29 | Battery top Bracket | L-Shape Bracket & Bolts | 1 | S246800005 | | Page 34 | | | | |
| | | Main Pivot Bolt Non-Drive Side | 1 | | | | 30 | MasterMind T3 | | 1 | S226800023 | | | | | | |
| | | Main Pivot Center Spacer | 2 | | | | 31 | Handlebar Remote | | 1 | S226800017 | | Page 36 | | | | |
| | | Link at Seat Tube Bolt | 2 | | | | 32 | Top Tube Cable Wrap | | 1 | S249900025 | | | Page 35 | | | |
| | | Link at Extension Bolt | 2 | | | | 33 | Battery Cover | | 1 | Model / Color specific | | Page 27 | | | | |
| | | Link at Seatstay Bolt | 2 | | | | 34 | Steerer Tube Protector | | 1 | Frame Size Specific | | | Page 30 | | | |
| | | Horst Pivot Bolt | 2 | | S214200059 | | 35 | SWAT Tool | | 1 | 53224-1170 | | Page 32 | | | | |
| | | Horst Pivot Flip Chips Outer | 2 | | | | 36 | SWAT Tool Anchor Bolt and Butterfly | | 1 | Frame Size Specific | | | | | | |
| | | Horst Pivot Flip Chips Inner | 2 | | | | 37 | Seatpost Clamp | | 1 | S214700007 | | | | | | |
| | | Rear Shock Mounting Bolt | 1 | | S240500009 | | 38 | Dropper Post | | 1 | Model Specific | | | | | | |
| | | Rear Shock Mounting Washer | 1 | | | | 39 | Seatpost Shim (Not Shown) | | 1 | S174900001 | | | | | | |
| | | Forward Shock Mounting Bolt | 1 | | | | | 40 | Bottle Cage | Bottle Cage for Range extender | 1 | S249900016 | | Page 37 | | | |
| | | Forward Shock Mounting Axle | 1 | | | | | | Bottle Cage Bolt | 2 | | | | | | | |
| | | 9 | Shock Link | | | | Shock Link - Alloy | 1 | S224200018 | S240600003 | Page 14 | 41 | Range Extender Anchor Bolt | | 1 | S240500012 | |
| | | | | | Link Bearings | | 6 | | | | | 42 | Motor Cavity Cable Guide | Cable Guide | 1 | S246500009 | |
| 10 | Shock Extension - Alloy | | 1 | S226300007 | | Page 16 | | | Cable Guide Bolt | 1 | | | | | | | |
| 11 | Shock Extension - Carbon (S-Works) | | 1 | S226300008 | | | 43 | SWAT Mount | Magnetic Mounting Post & Bolts | | 1 | S249900022 | | Page 33 | | | |
| 12 | Suspension Bearing Kit | Suspension Bearings | 10 | S240600003 | | Page 7 | 44 | SWAT Bag Small: Frame S2-S3 | | 1 | S249900024 | Frame Size Specific | | | | | |
| | | Main Pivot Bearings | 2 | | | | 45 | SWAT Bag Large: Frame S4-S6 | | 1 | S249900023 | | | | | | |
| | | Bearing Spacers | 6 | | S214200059 | | 46 | SRAM UDH Derailleur Hanger | | 1 | S202600002 | | | | | | |
| | | Horst Pivot Spacers | 4 | | | | | 47 | Stem: 40 mm | | 1 | Model size specific | | Page 32 | | | |
| | | Horst Pivot Step Spacers | 2 | | | | 48 | Handlebar: 780 mm - 800 mm | | 1 | Frame size specific | | | | | | |
| 14 | Main Pivot Cable Guide | Main Pivot Cable Guide | 1 | S246500008 | | Page 12 | 49 | Headset Spacer 5 mm | | 6 | | | Page 32 | | | | |
| | | Cable Guide Bolt | 1 | | | | 50 | Range Extender Battery - SBC - B28 | | 1 | 98924-5680 | | | Page 37 | | | |
| 15 | Chain Guide | | 1 | S221200007 | | Page 28 | 51 | Range Extender Cable - 210 mm | | 1 | 98924-5660 | | | | | | |

4. TORQUE SPECIFICATIONS

4 mm 6.2 Nm 55 in-lbf 12

5 mm 5 Nm 44 in-lbf 20

4 mm 6 Nm 53 in-lbf 8

6 mm 20 Nm 177 in-lbf 3

6 mm 23 Nm 204 in-lbf 4

6 mm 20 Nm 177 in-lbf 5

T8 0.5 Nm 4 in-lbf 29

6 mm 21 Nm 186 in-lbf 2

5 mm 15 Nm 133 in-lbf 13

8 mm 50 Nm 443 in-lbf 14

2.5 mm 1.3 Nm 12 in-lbf 11

5 mm 12 Nm 106 in-lbf 6

6 mm 15 Nm 133 in-lbf 10

4 mm 1.5 Nm 13 in-lbf 22

4 mm 5 Nm 44 in-lbf 21

5 mm 5 Nm 44 in-lbf 13

6 mm 21 Nm 186 in-lbf 1

20 Nm 177 in-lbf 15

4 mm 6 Nm 53 in-lbf 24

5 mm 8 Nm 71 in-lbf 23

2 mm 0.7 Nm 6 in-lbf 26

T6 0.7 Nm 6 in-lbf 28

25 1.5 Nm 13 in-lbf T10

9 6 Nm 54 in-lbf 4 mm

19 2.2 Nm 19 in-lbf 3 mm

7 20 Nm 177 in-lbf 6 mm

18 2.2 Nm 19 in-lbf 3 mm

3 20 Nm 177 in-lbf 6 mm

21 5 Nm 44 in-lbf 4 mm

4 23 Nm 204 in-lbf 6 mm

5 20 Nm 177 in-lbf 6 mm

13 15 Nm 133 in-lbf 5 mm

17 3.5 Nm 30 in-lbf 5 mm

































16 3.5 Nm 30 in-lbf 4 mm

14 50 Nm 443 in-lbf 8 mm

EVERSEAL 183

THREADLOCKER

LH

| # | PART NAME | QUANTITY | SPECIFICATION | TOOL | TORQUE | | NOTES |
|----|--|----------|--|---------------------------------|--------|--------|--|
| | | | | | Nm | in-lbf | |
| 1 | Main Pivot Bolt Drive Side | 1 | M12 x 23 mm x 1.0 mm P (LH) | 6 mm hex | 21 | 186 |    **  |
| 2 | Main Pivot Bolt Non-Drive Side | 1 | M12 x 23 mm x 1.0 mm P | 6 mm hex | 21 | 186 |   **  |
| 3 | Link At Seat Tube Bolt | 2 | M12 x 17 mm x 1.0 mm P | 6 mm hex | 20 | 177 |   ** |
| 4 | Link At Extension Bolt | 2 | M12 x 14 mm x 1.0 mm P | 6 mm hex | 23 | 204 |   ** |
| 5 | Link At Seatstay Bolt | 2 | M12 x 27 mm x 1.0 mm P | 6 mm hex | 20 | 177 |   ** |
| 6 | Horst Pivot Bolt | 2 | M6 x 32 mm x 1.0 mm P | 5 mm hex | 12 | 106 |   ** |
| 7 | Rear Shock Mounting Bolt | 1 | M8 x 28 mm x 1.25 mm P | 6 mm hex | 20 | 177 |   * |
| 8 | Forward Shock Mounting Bolt | 1 | M5 x 13 mm x 0.8 mm P | 4 mm hex | 6 | 53 |   * |
| 9 | Forward Shock Mounting Axle | 1 | 8 mm OD x 0.8 mm x 31.2 mm | 4 mm hex | – | – |  |
| 10 | 12 mm Rear Thru-Axle | 1 | Mtn Boost Thru-Axle, Non-Tapered, M12 x 148 mm | 6 mm hex | 15 | 133 |  |
| 11 | Speed Sensor Mount Bolt | 1 | M4 x 18 mm x 0.7 mm P | 2.5 mm hex | 1.3 | 12 |  * |
| 12 | Seat Collar Bolt | 1 | M6 x 20 mm | 4 mm hex | 6.2 | 55 | |
| 13 | Motor Mount Bolts | 6 | M8 x 24 mm x 1.25 mm P | 5 mm hex | 15 | 133 |  * |
| 14 | Crank Bolts | 2 | 155 mm Alloy 160 mm Carbon | Consult Component Documentation | | | |
| 15 | Spider Lock Ring | 1 | M33 x 1 mm x 1.0 mm P | Park Tool BBT-18 | 20 | 177 |  |
| 16 | Chain Guide Mount Bolt | 1 | M8 x 11 mm x 1.0 mm P | 4 mm hex | 3.5 | 30 |  * |
| 17 | Chain Guide Adjustment Nut | 1 | M8 x 1.0 mm P Nut | 5 mm hex | 3.5 | 30 | |
| 18 | Water Bottle Cage Bolts | 2 | M5 x 10 mm x 0.8 mm P | 3 mm hex | 2.2 | 19 | |
| 19 | RE Anchor Bolt | 1 | M5 x 7 mm x 0.8 mm P Custom Bolt | 3 mm hex | 2.2 | 19 |  ** |
| 20 | Battery Cover Bolt | 1 | M8 x 14 mm x 1.0 mm P | 5 mm hex | 5 | 44 | |
| 21 | Rock Guard Bolts | 2 | M6 x 13 mm x 1.0 mm P | 4 mm hex | 5 | 44 | |
| 22 | Mudflap Bolts | 2 | M4 x 10 mm x 0.75 mm P | 4 mm hex | 1.5 | 13 |  |
| 23 | Stem at Steerer Tube Bolts (No-Gap Stem) | 2 | M6 x 20 mm x 1.0 mm P | 5 mm hex | 8 | 71 |  * |
| 24 | Stem At Handlebar Bolts(No-Gap Stem) | 4 | M5 x 18 mm x 0.8 mm P | 4 mm hex | 6 | 53 |  * |
| 25 | SWAT Bag Mounting Bracket Bolts | 2 | M4 x 10 mm x 0.7 mm P | T10 Torx | 1.5 | 13 |  |
| 26 | Head Tube ICR Port Bolt | 2 | M3 x 6 mm x 0.5 mm P | 2 mm hex | 0.7 | 6 | |
| 27 | Derailleur Hanger | 1 | Sram Universal Derailleur Hanger | 8 mm hex | 25 | 221 |   |
| 28 | Display Front Spring Bolt | 1 | M3 x 7 mm x 0.5 mm P | T6 Torx | 0.2 | 1.8 | |
| 29 | Chargeport Door Screws | 4 | M2.2 x 10 mm | T8 Torx | 3 | 27 | |

* Bolts treated with blue threadlocker - apply grease to non-threaded surfaces only. DO NOT apply grease to threads.

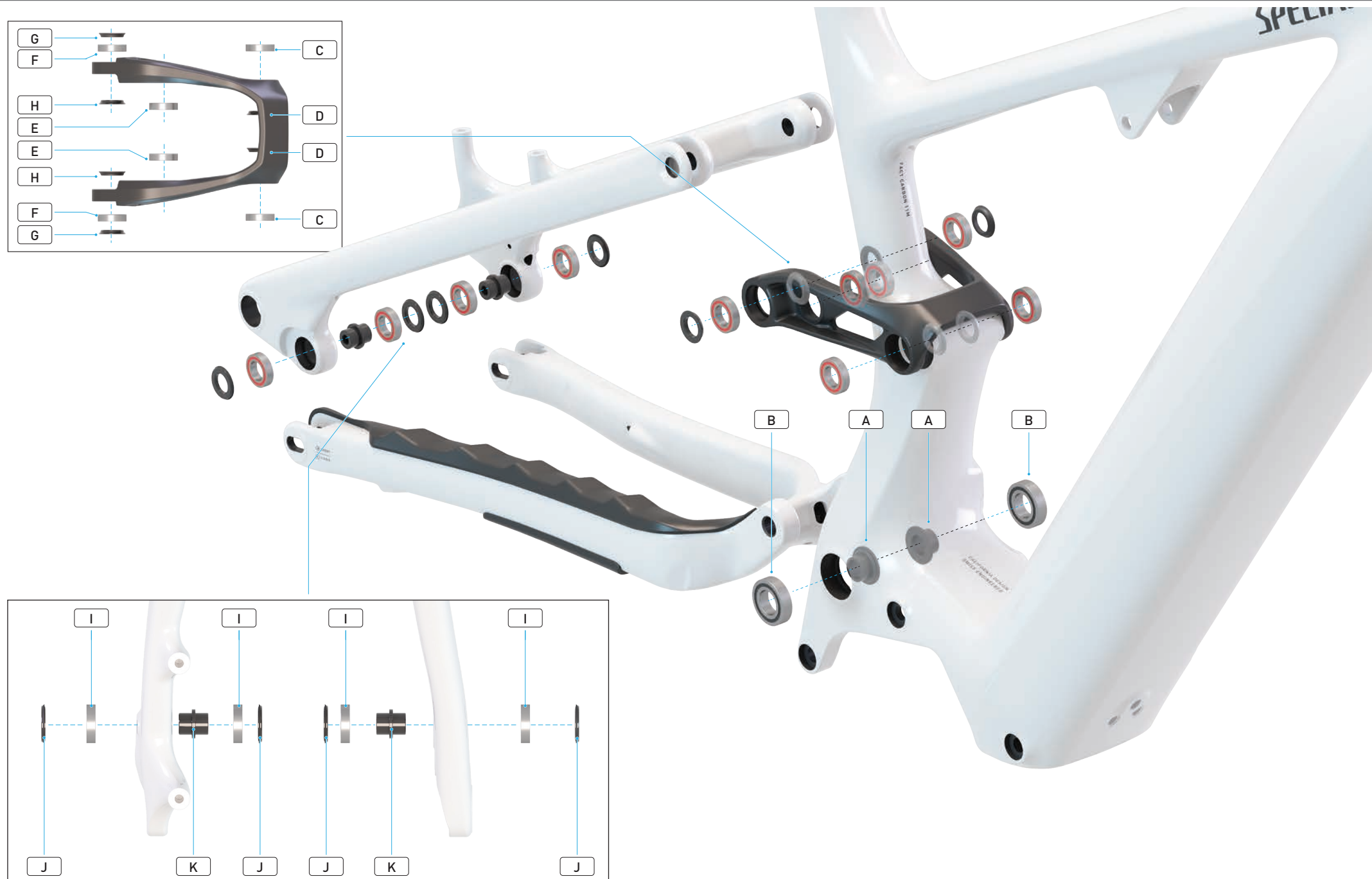
** Bolts treated with Everseal 183 threadlocker - apply grease to all contact surfaces.














CAUTION: Before reinstalling the main pivot bolts, inspect the bolt threads for damage and reapply Everseal 183 threadlocker before reassembly. Should there be visible wear on the threads, replace the bolts.

5. REAR TRIANGLE

5.1. BEARINGS AND SPACERS

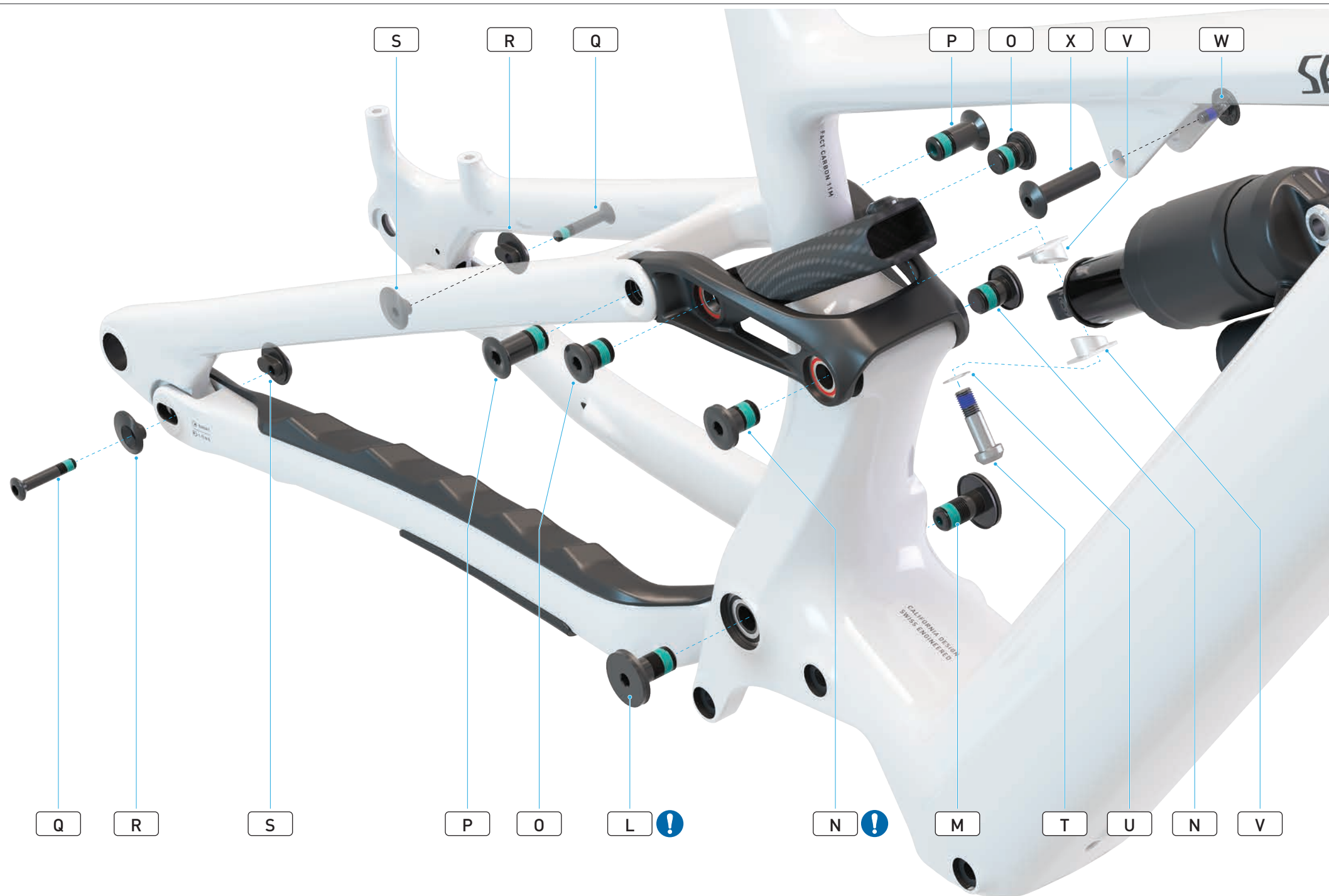





















5.2. SUSPENSION BEARING AND SPACER SPECIFICATIONS

| | LOCATION | QTY | BEARING | DIMENSION (MM) | NOTES |
|---|---------------------------------|-----|----------|----------------------------------|---|
| A | Main Pivot Center Spacer | 2 | – | 12 mm ID x 23 mm OD x 9.6 mm W |  |
| B | Main Pivot Bearing | 2 | 6902-2RS | 15 mm ID x 28 mm OD x 7 mm W |  |
| C | Link At Seat Tube Bearing | 2 | 6801-2RS | 12 mm ID x 21 mm OD x 5 mm W |  |
| D | Link At Seat Tube Spacer | 2 | – | 12.1 mm ID x 19.5 mm OD x 3 mm W |  |
| E | Link At Extension Bearing | 2 | 6801-2RS | 12 mm ID x 21 mm OD x 5 mm W |  |
| F | Link At Seatstay Bearing | 2 | 6801-2RS | 12 mm ID x 21 mm OD x 5 mm W |  |
| G | Link At Seatstay Spacer (Outer) | 2 | – | 12.1 mm ID x 19.5 mm OD x 3 mm W |  |
| H | Link At Seatstay Spacer (Inner) | 2 | – | 12.1 mm ID x 19.5 mm OD x 3 mm W |  |
| I | Horst Pivot Bearing | 4 | 6801-2RS | 12 mm ID x 21 mm OD x 5 mm W |  |
| J | Horst Pivot Spacer | 4 | – | 12 mm ID x 21 mm OD x 2.5 mm W |  |
| K | Horst Pivot Center Spacer | 2 | – | 6 mm ID x 16 mm OD x 16 mm W |  |

 Apply green Loctite 603 to the bearing and bore interface surfaces before pressing them into their respective pivot locations. Allow to cure for 12 hours before riding.

5.3. BOLTS, AXLE, WASHERS, AND FLIP CHIPS

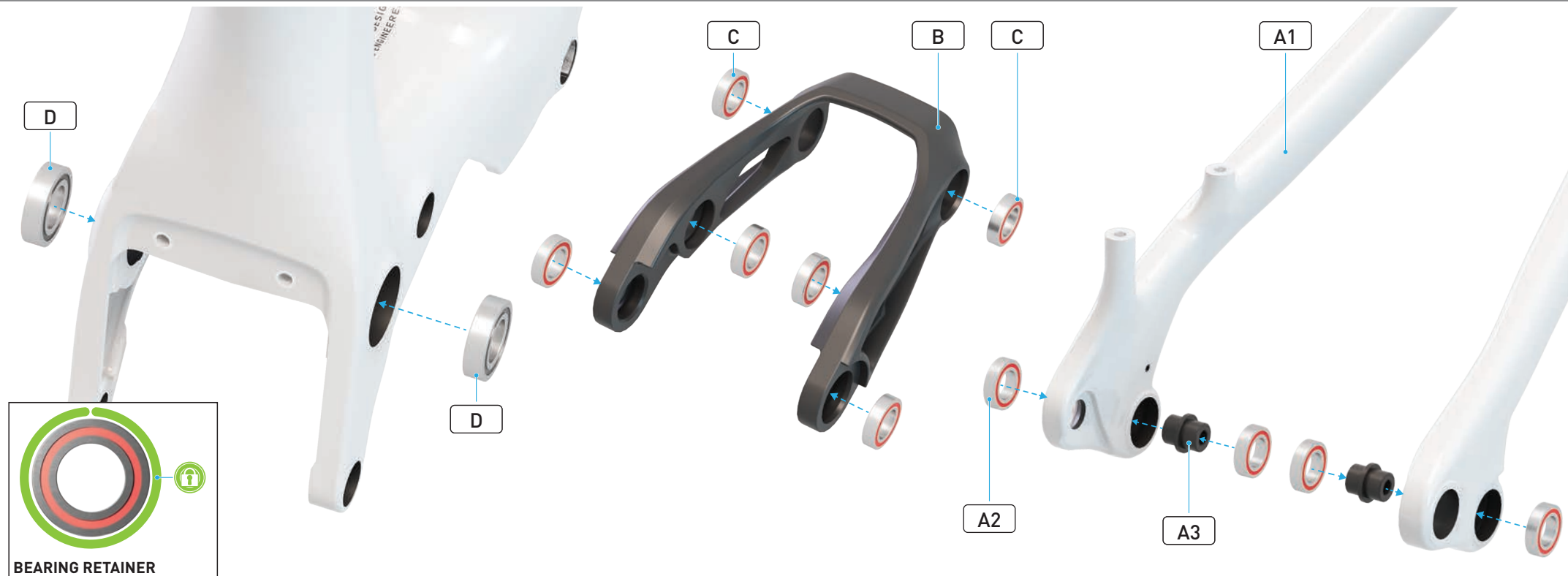


| | LOCATION | QTY | DIMENSION (MM) | TOOL SIZE | TORQUE | | NOTES |
|--|--------------------------------|-----|-----------------------------------|---|--------|--------|--|
| | | | | | Nm | in-lbf | |
| L | Main Pivot Bolt Drive Side | 1 | M12 x 23 mm x 1.0 mm P (LH) | 6 mm hex | 21 | 186 |    **  |
| M | Main Pivot Bolt Non-Drive Side | 1 | M12 x 23 mm x 1.0 mm P | 6 mm hex | 21 | 186 |   **  |
| N | Link At Seat Tube Bolt | 2 | M12 x 17 mm x 1.0 mm P | 6 mm hex | 20 | 177 |   ** |
| O | Link At Extension Bolt | 2 | M12 x 14 mm x 1.0 mm P | 6 mm hex | 23 | 204 |   ** |
| P | Link At Seatstay Bolt | 2 | M12 x 27 mm x 1.0 mm P | 6 mm hex | 20 | 177 |   ** |
| Q | Horst Pivot Bolt | 2 | M6 x 32 mm x 1.0 mm P | 5 mm hex | 12 | 106 |   ** |
| R | Horst Pivot Flip Chips - Outer | 2 | M6 Geo adjust pivot | | | |  |
| S | Horst Pivot Flip Chips - Inner | 2 | M6 Geo adjust pivot- threaded | | | | |
| T | Rear Shock Mounting Bolt | 1 | M8 x 28 mm x 1.25 mm P | 6 mm hex | 20 | 177 |   * |
| U | Rear Shock Mounting Washer | 1 | 8.4 mm ID x 13 mm OD x 0.5 mm Thk | | | | |
| V | Shock Extension Flip Chips | 2 | 8 mm ID x 15 mm OD x 6.5 mm Thk | | | |  |
| W | Forward Shock Mounting Bolt | 1 | M5 x 13 mm x 0.8 mm P | 4 mm hex | 6 | 53 |   * |
| X | Forward Shock Mounting Axle | 1 | 8 mm OD x 0.8 mm x 31.2 mm | 4 mm hex | | |  |
| * Bolts treated with blue threadlocker - apply grease to non-threaded surfaces only. DO NOT apply grease to threads. | | | | ** Bolts treated with Everseal 183 threadlocker - apply grease to all contact surfaces. | | | |



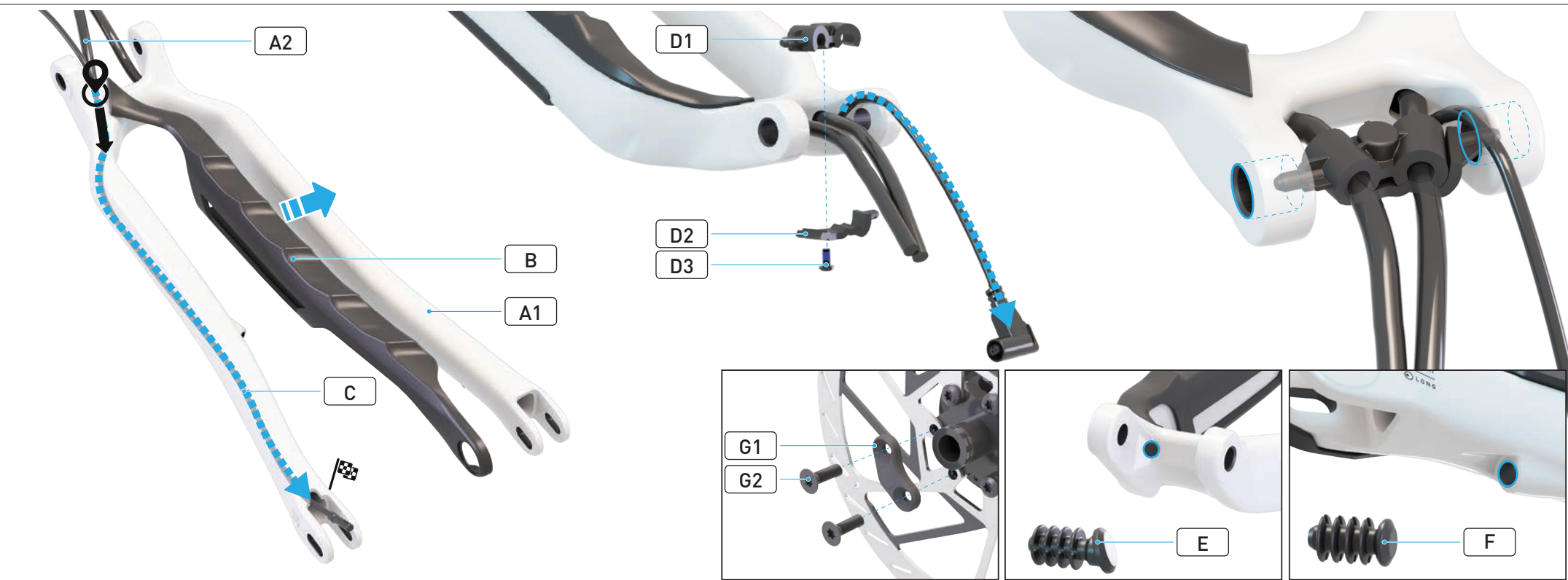
CAUTION: Before reinstalling the main pivot bolts, inspect the bolt threads for damage and reapply Everseal 183 threadlocker before reassembly. Should there be visible wear on the threads, replace the bolts.

5.4. REAR TRIANGLE ASSEMBLY - BEARINGS



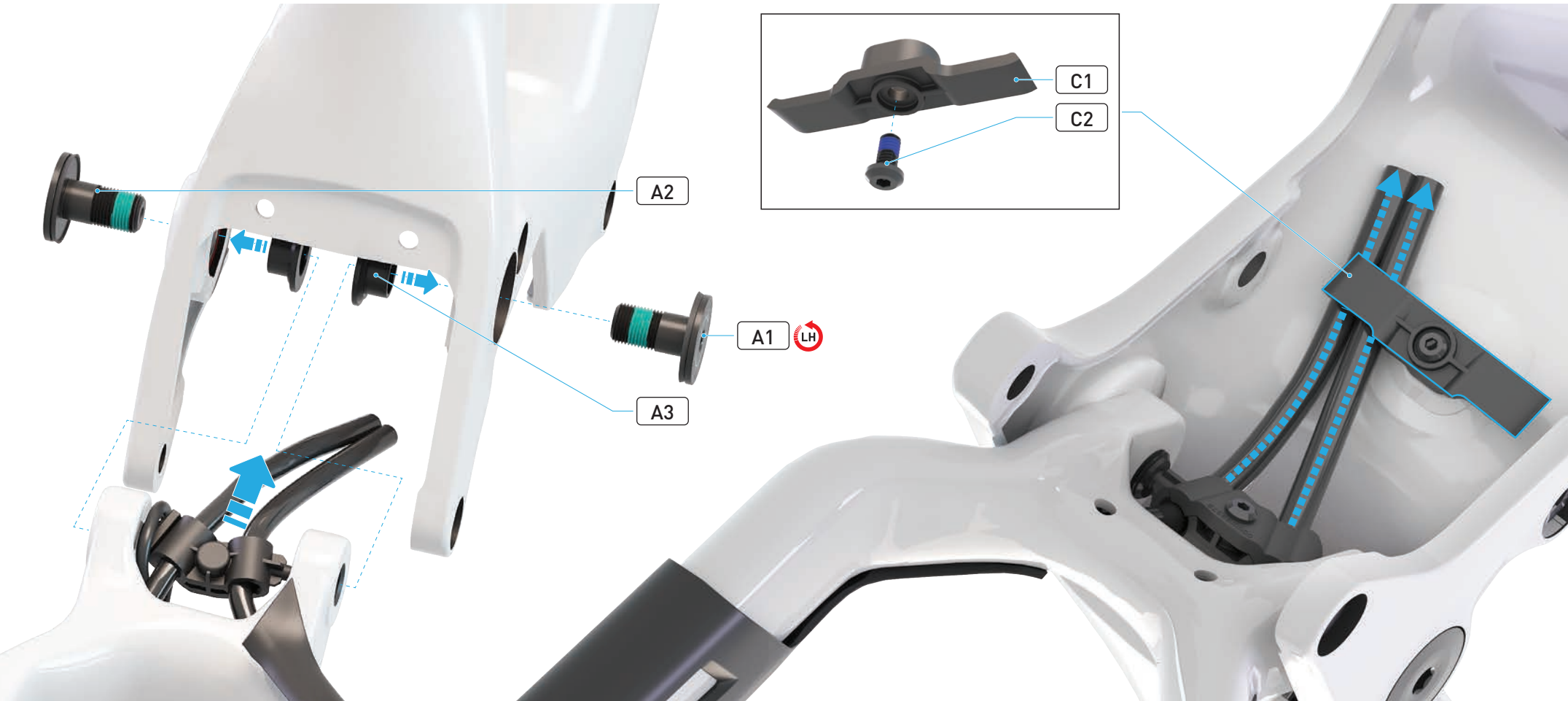
| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|---------------------|--------------------------|---------------------------------------|---------------------------------------|--|---|------|--------|--------|---------------|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Carbon Seatstay | S225000010 | | 1 | SS,MTB,PA TRAIL FSR H1,29"F/27.5"R, CRBN | | | | Carbon Frames |
| | A2 | Carbon Seatstay Bearings | | PART OF S240600003 | 4 | 12 mm ID x 21 mm OD X 5 mm Thk, Double Sealed | | | | |
| | A3 | Horst Pivot Step Spacer | | 2 | Step Spacer 6 mm ID X 16 mm OD X 16 mm W | | | | | |
| A | A1 | Alloy Seatstay | S225000009 | | 1 | STS MY26 LEVO (GEN.4) SEATSTAY, ALLOY, 27.5" | | | | Alloy Frames |
| | A2 | Alloy Seatstay Bearings | | PART OF S240600003 | 4 | 12 mm ID x 21 mm OD X 5 mm Thk, Double Sealed | | | | |
| | A3 | Horst Pivot Step Spacer | | 2 | Step Spacer 6 mm ID X 16 mm OD X 16 mm W | | | | | |
| B | Shock Link | | S224200018 | | 1 | LINK,MTB,PA TRAIL FSR H1,29"F/27.5"R, ALY | | | | |
| C | Shock Link Bearings | | PART OF S240600003 | S240600003 | 6 | 12 mm ID x 21 mm OD X 5 mm Thk, Double Sealed | | | | |
| D | Main Pivot Bearing | | | | 2 | 15 mm ID x 28 mm OD x 6 mm Thk, Double Sealed | | | | |










5.5. REAR TRIANGLE ASSEMBLY - CHAINSTAY



| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|---------------------|-------------------------------|----------------------------|------------|-----|--|--|--------|--------|------------------------|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Chainstay Carbon | S221500016 | | 1 | CS,MTB,PA TRAIL FSR H1,29F/27.5R,CRBN | | | | Carbon Frames |
| | A2 | Nylon Guide Tube | | | 2 | 5.5 mm ID x 7 mm OD Nylon Guide Tube | | | | 425mm DS / 325mm NDS |
| | A1 | Chainstay Alloy | S221500015 | | 1 | CHS MY26 LEVO 4, CHAINSTAY, ALLOY, 27.5" | | | | Alloy Frames |
| | A2 | Nylon Guide Tube | | | 2 | 5.5 mm ID x 7 mm OD Nylon Guide Tube | | | | 425mm DS / 325mm NDS |
| B | Chainstay Protector | | S226900008 | | 1 | CS PROTECTOR,PA TRAIL FSR H1 | | | | Secured by Mudflap |
| C | Speed Sensor Cable | | S246800018 | | 1 | CA,SPEED SNSR,PLUTO,1000 mm | | | | Route over Cable Guide |
| D | D1 | Main Pivot Cable Guide Female | S246500008 | | 1 | KIT,ICR,MP,FEMALE,MTB,PA TRAIL FSR H2.2 | | | | |
| | D2 | Main Pivot Cable Guide Male | | | 1 | ICR,MP,MALE,MTB,PA TRAIL FSR H2.2 | | | | |
| | D3 | Main Pivot Cable Guide Bolt | | | 1 | M4 x 8 mm x 0.7 mm P | 2.5 mm hex | 2.5 | 22 | |
| E | Angled Port Plug | | S246500010 | | 1 | PLUG,HOUSING,6MM AND 7MM,BLACK | Used to Plug Chainstay Bridge ICR Cable Port if Unused | | | |
| F | Flat Port Plug | | S246500011 | | 1 | ICR INSERT PLUG,MTB,PA TRAIL FSR 2.1,29F/27.5R | Used to Plug Chainstay ICR Cable Port if Unused | | | |
| G | G1 | Speed Sensor Magnet | S194200016 | | 1 | 6-BOLT SPEED SENSOR LOW PROFILE, W/BOLTS | | | | |
| | G2 | Speed Sensor Magnet Bolt | | | 2 | M5 x 15 mm x 0.8 mm P | T25 | 6 | 53 | |

5.6. REAR TRIANGLE ASSEMBLY - MAIN PIVOT



| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|-----------|--------------------------------|----------------------------|------------|-----|---|------------|--------|--------|---|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Main Pivot Bolt Drive Side | S240500010 | | 1 | M12 x 23 mm x 1.0 mm P (LH) | 6 mm hex | 21 | 186 |     |
| | A2 | Main Pivot Bolt Non-Drive Side | | | 1 | M12 x 23 mm x 1.0 mm P | 6 mm hex | 21 | 186 |    |
| | A3 | Main Pivot Center Spacer | | | 2 | 12 mm ID X 23 mm OD X 9.6 mm Thk | | | |  |
| B | B1 | Motor Cavity Cable Guide | S246500009 | | 1 | ICR, FIX, MOTOR MOUNT, MTB, PA TRAIL FSR H2.2 | | | | |
| | B2 | Motor Cavity Cable Guide Bolt | | | 1 | M4 x 8 mm x 0.7 mm P | 2.5 mm hex | 2.5 | 22 |  |




CAUTION: Before reinstalling the main pivot bolts, inspect the bolt threads for damage and reapply Everseal 183 threadlocker before reassembly. Should there be visible wear on the threads, replace the bolts.

5.7. REAR TRIANGLE ASSEMBLY - LINK AT SEAT TUBE & LINK AT SEATSTAY



| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|-----------------|------------------------|------------------------------------|------------|-----|---|------------|--------|--------|---------------|
| | | | | | | | | Nm | in-lbf | |
| A | Shock Link | | S224200018 | | 1 | LINK,MTB,PA TRAIL FSR H1,29F/27.5R,ALY | | | | |
| B | Carbon Seatstay | | S225000010 | | 1 | MY25 LEVO 4 SEATSTAY, CARBON | | | | Carbon Frames |
| | Alloy Seatstay | | S225000009 | | 1 | STS MY26 LEVO 4, SEATSTAY, ALLOY, 27.5" | | | | Alloy Frames |
| C | C1 | Link at Seat Tube Bolt | Part of S240500010 | | 2 | M12 x 17 mm x 1.0 mm P | 6 mm hex | 20 | 177 | |
| | C2 | Link at Seatstay Bolt | | | 2 | M12 x 27 mm x 1.0 mm P | 6 mm hex | 20 | 177 | |
| D | Bearing Spacer | | Part of S240600003 | | 6 | 12.1 mm ID x 19.5 mm OD x 3 mm Thk | 2.5 mm hex | 2.5 | 22 | |

5.8. REAR TRIANGLE ASSEMBLY - SEATSTAY AT HORST PIVOT



ADJUSTABLE GEOMETRY CHANGES

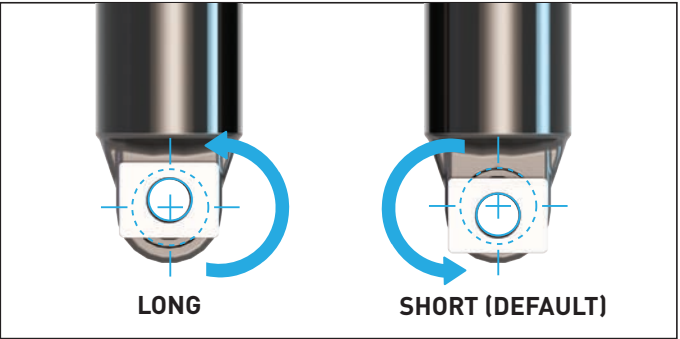
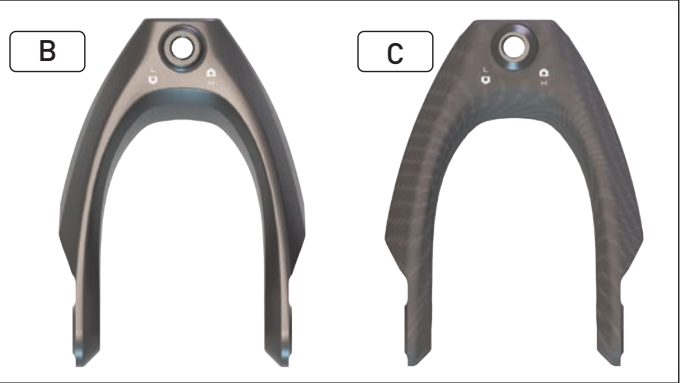
| ADJUSTMENT POINT | CHAINSTAY LENGTH (A) | BOTTOM BRACKET HEIGHT (B) | HEAD TUBE ANGLE (C) |
|-----------------------------|----------------------|---------------------------|---------------------|
| HORST PIVOT SHORT (DEFAULT) | 435 mm | 350 mm | 64.5° |
| HORST PIVOT LONG | 446 mm | 338 mm | 63.7° |

| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|--------------------------|-----------------------------|------------------------------------|----------------------------|-----|--|------------|--------|--------|--|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Speed Sensor Grommet | Part of S246800015 | | 1 | GROMMET,SPEED SENSOR,3mm ID FOR 6.4 mm | | | | Push speed sensor past mounting hole in seatstay |
| | A2 | Speed Sensor Bolt | | | 1 | M4 x 18 mm x 0.7 mm P | 2.5 mm hex | 1.3 | 12 | |
| B | Horst Pivot Outer Spacer | | Part of S240600003 | | | 12.1 mm ID x 19.5 mm OD x 3 mm Thk | | | | |
| C | C1 | Horst Pivot Bolt | Part of S240500010 | S214200059 | 1 | M6 x 32.5 mm x 1.0 mm P | 5 mm hex | 12 | 106 | |
| | C2 | Horst Outer Pivot Flip Chip | | | 2 | SPCR,DO PIVOT SPACER,GEO ADJ,6.0 ID,FLAT,ALY | | | | |
| | C3 | Horst Inner Pivot Flip Chip | | | 2 | SPCR,DO PIVOT,GEO ADJ,M6 X 1,ALY | | | | |



CAUTION: Dirt and grime could accumulate around the speed sensor during use, preventing it from being removed. When removing the speed sensor, don't pull the wire out of the sensor. First, remove the speed sensor bolt and grommet, then use compressed air to remove any debris that could have accumulated around the speed sensor and gently pull the speed sensor out.

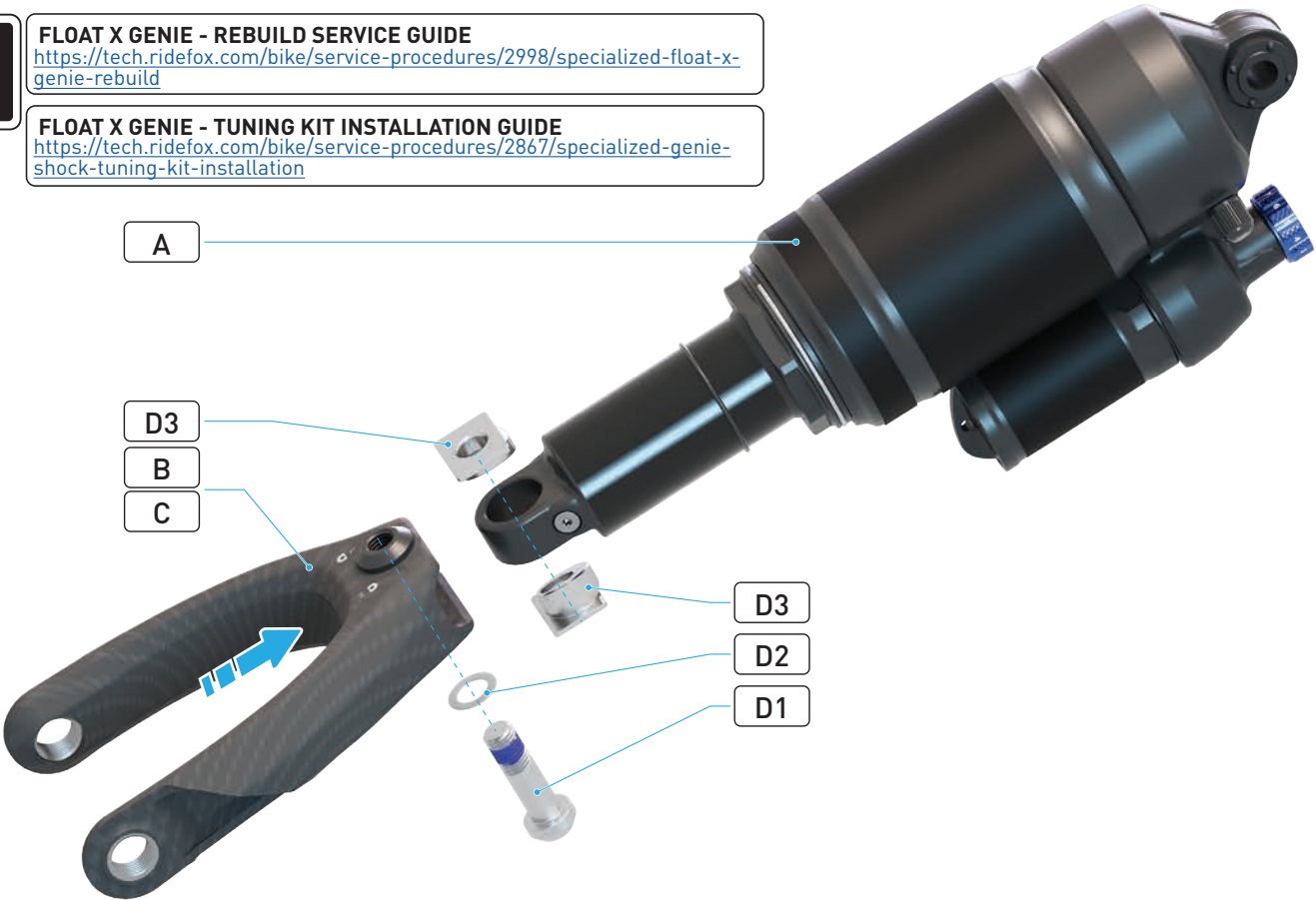
5.9. REAR TRIANGLE ASSEMBLY - REAR SHOCK



| ADJUSTABLE GEOMETRY CHANGES | | | |
|-----------------------------|----------------------|---------------------------|---------------------|
| ADJUSTMENT POINT | CHAINSTAY LENGTH (A) | BOTTOM BRACKET HEIGHT (B) | HEAD TUBE ANGLE (C) |
| EXTENSION SHORT (DEFAULT) | 435 mm | 350 mm | 64.5° |
| EXTENSION LONG | 433 mm | 356 mm | 64.9° |

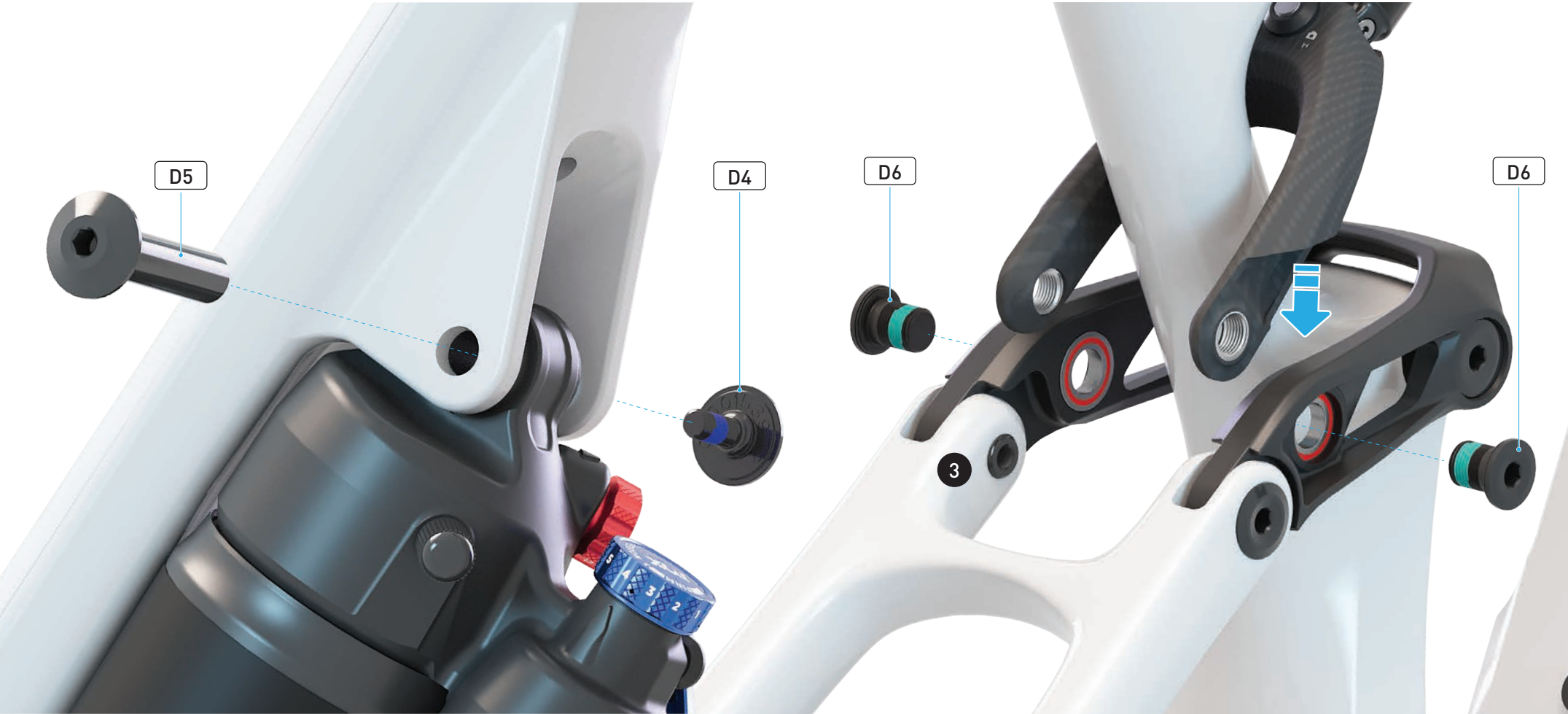
FLOAT X GENIE - REBUILD SERVICE GUIDE
<https://tech.ridefox.com/bike/service-procedures/2998/specialized-float-x-genie-rebuild>






FLOAT X GENIE - TUNING KIT INSTALLATION GUIDE
<https://tech.ridefox.com/bike/service-procedures/2867/specialized-genie-shock-tuning-kit-installation>



| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|--------------------------|----------------------------|----------------------------|--|-----|---|----------|--------|--------|----------------|
| | | | | | | | | Nm | in-lbf | |
| A | Rear Shock - Expert | | S244200008 | | 1 | MY25 FOX, FLOAT X GENIE, PERFORMANCE ELITE, 210 mm x 55 mm, | | | | |
| A | Rear Shock - S-Works | | S244200006 | | 1 | MY25 FOX, FLOAT X GENIE, FACTORY, 210X55 mm, LEVO (GEN.4) | | | | |
| B | Shock Extension - Alloy | | S226300007 | | 1 | MY24 LEVO (GEN.4) SHOCK EXTENSION, ALLOY, 91 mm LENGTH | | | | |
| C | Shock Extension - Carbon | | S226300008 | | 1 | MY24 LEVO (GEN.4) SHOCK EXTENSION, CARBON, 91 mm LENGTH | | | | S-works Models |
| D | D1 | Rear Shock Mounting Bolt | S240500009 | Part of S240500010 S189900096 | 1 | M8 x 28 mm x 1.25 mm P | 6 mm hex | 20 | 177 | |
| | D2 | Rear Shock Mounting Washer | | | 2 | 8.4 ID mm x 13 mm OD x 0.5 mm Thk | | | | |
| | D3 | Shock Extension Flip Chips | | | 2 | Geo Adjust Chips 8 mm ID x 15 mm OD x 6.5 mm Thk | | | | |


5.10.REAR TRIANGLE ASSEMBLY - REAR SHOCK EXTENSION



| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|-----------|-----------------------------|---------------------------------------|------------|-----|----------------------------|----------|--------|--------|---|
| | | | | | | | | Nm | in-lbf | |
| D | D4 | Forward Shock Mounting Bolt | Part of S240500009 | | 1 | M5 x 13 mm x 0.8 mm P | 4 mm hex | 6 | 53 |   |
| | D5 | Forward Shock Mounting Axle | | | 1 | 8 mm OD x 0.8 mm x 31.2 mm | 4 mm hex | | |  |
| | D6 | Link at Extension Bolt | Part of S240500010 | | 2 | M12 x 14 mm x 1.0 mm P | 6 mm hex | 23 | 204 |   |

5.11.REAR TRIANGLE ASSEMBLY - MUDFLAP



| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|-----------|--------------|----------------------------|------------|-----|------------------------------------|----------|--------|--------|--|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Mudflap | S226900009 | | 1 | MUD FLAP,CO-MOLDED,PA TRAIL FSR H2 | | | | Only install Mudflap with the chainstay guard installed |
| | A2 | Mudflap bolt | | | 2 | M4 x 10 mm x 0.7 mm P | 4 mm hex | 1.5 | 13 |  Apply to contact surface /avoid the thread |

5.12. BATTERY RECEIVER



LEVO 4 BATTERY & BATTERY RECEIVER REPLACEMENT GUIDE
<https://vimeo.com/941480035?share=copy>

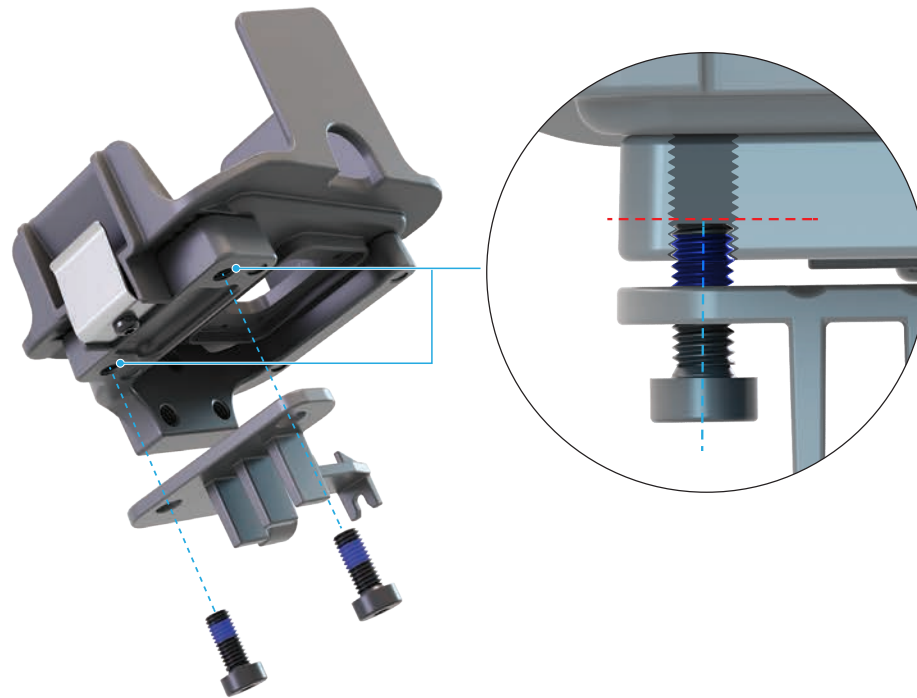
| | PART NAME | | PART # | QTY | DESCRIPTION | T00L | TORQUE | | NOTES |
|---|-----------|---------------------------------|------------|-----|---|----------|--------|--------|--|
| | | | | | | | Nm | in-lbf | |
| A | A1 | Battery Receiver | S246800004 | 1 | BTRY RECEIVER,PLUTO,BOTTOM | | | | |
| | A2 | Battery Receiver Bolt | | 4 | M5 x 12 mm x 0.8 mm P | 3 mm hex | 3 | 27 | |
| | A3 | Frame Adapter | | 1 | FRAME ADAPTER,MTB,PA TRAIL FSR H1,14S3P,PLUTO | | | | |
| | A4 | Battery Cover Spring | | 1 | SPR,BTRY COVER,PLUTO,PA TRAIL FSR H2 | | | | |
| | A5 | Battery Cover Spring Screw | | 1 | M2.2 x 10 mm | T8 Torx | 0.5 | 4 | |
| | A6 | Battery Receiver Cable Guide | | 1 | CBL GUIDE,HMI CONN,BROSE,PLUTO | | | | Install before Main Harness |
| | A7 | Battery Cable Guide Bolt | | 2 | M5 x 12 mm x 0.8 mm P | 3 mm hex | 2 | 18 | Shared with battery receiver bolt |
| | A8 | Battery Receiver Mounting Bolt | | 2 | M5 x 14.5 mm x 0.8 mm P | 3 mm hex | 4.5 | 40 | Push the battery receiver against the installed battery to ensure alignment before torquing the bolts. |
| B | B1 | Main Harness -Motor-Battery-HMI | S226800022 | 1 | CA,MAIN HARNESS,BROSE,PLUTO | | | | Motor-Battery-HMI |
| | B2 | Main Harness Screw | | 4 | M2.2 x 10 mm | T8 Torx | 0.5 | 4 | |

5.13. BATTERY RECEIVER - ASSEMBLY

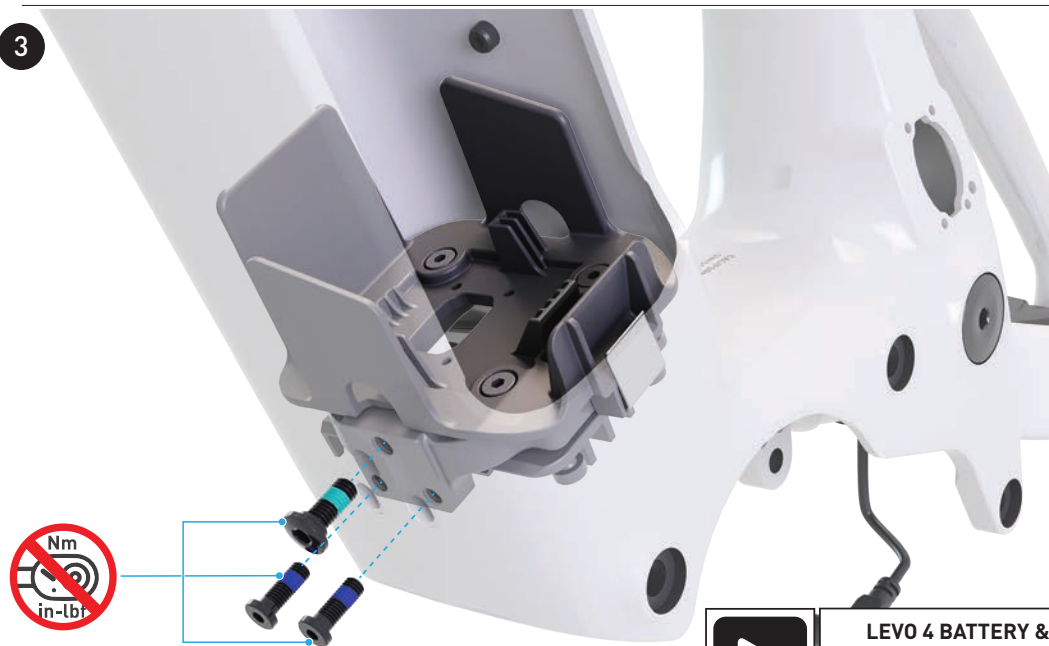
1



2



3

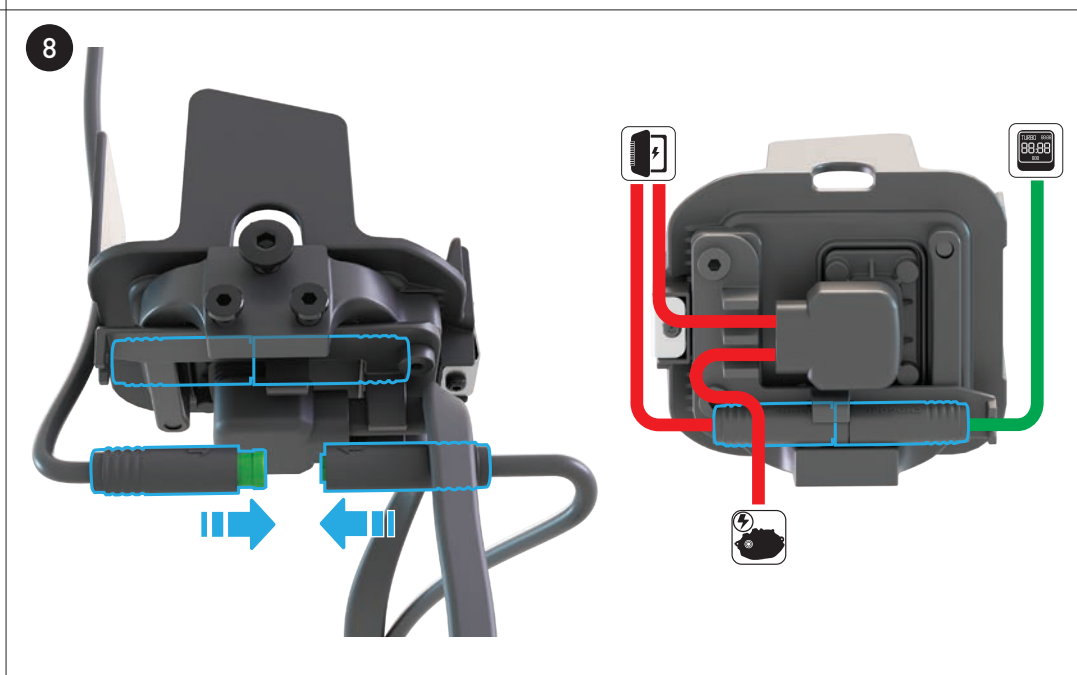
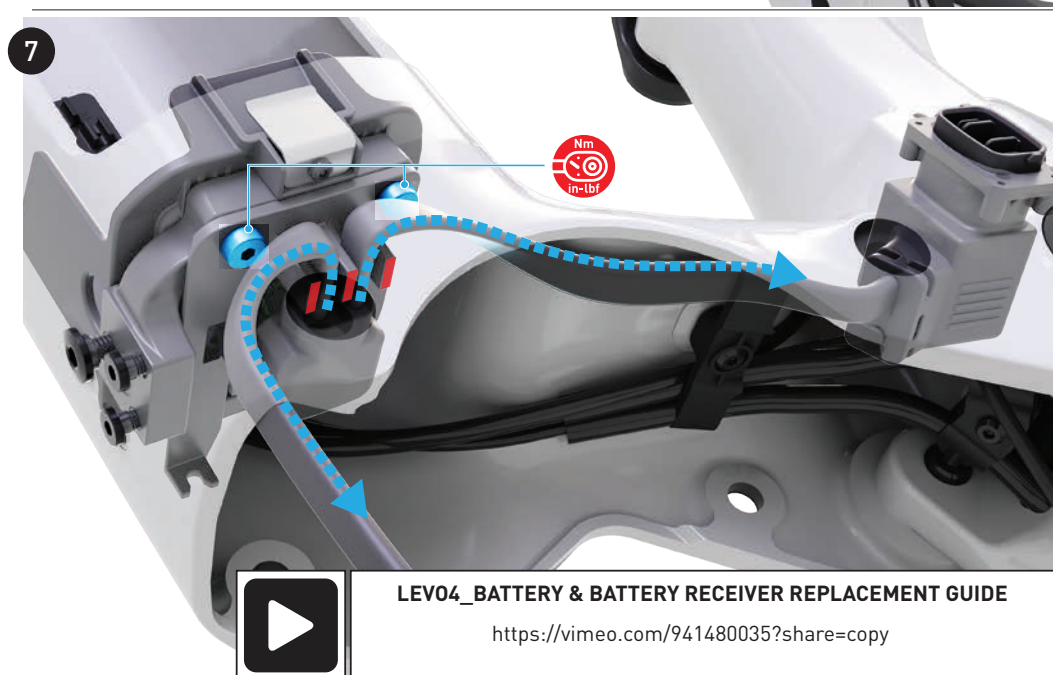
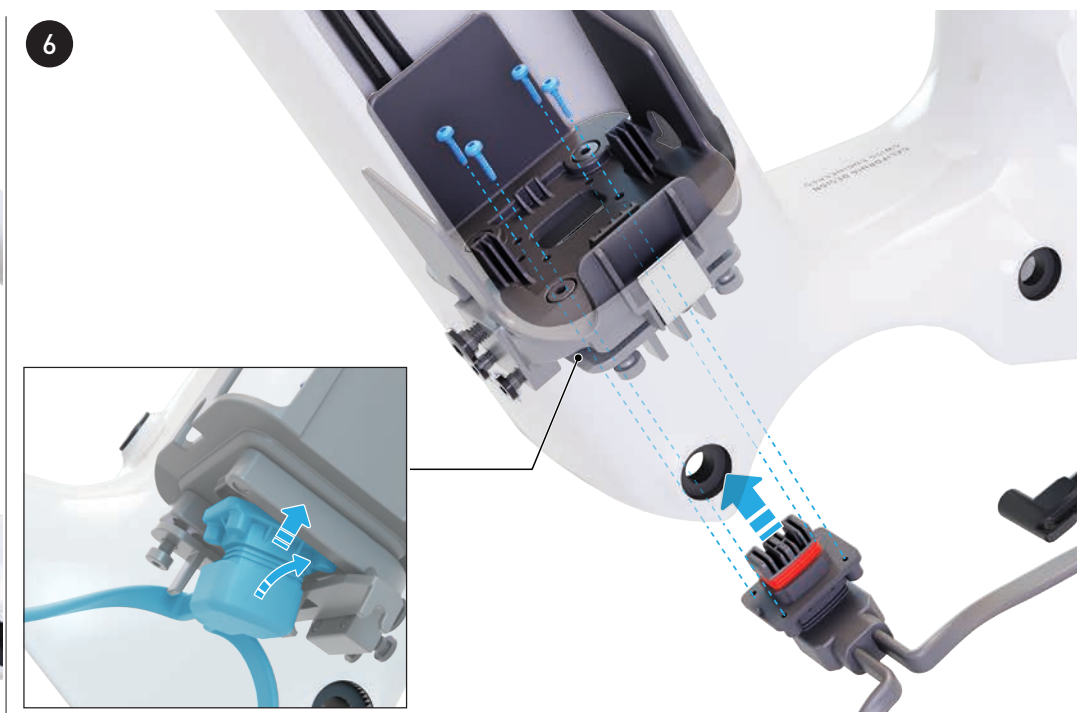
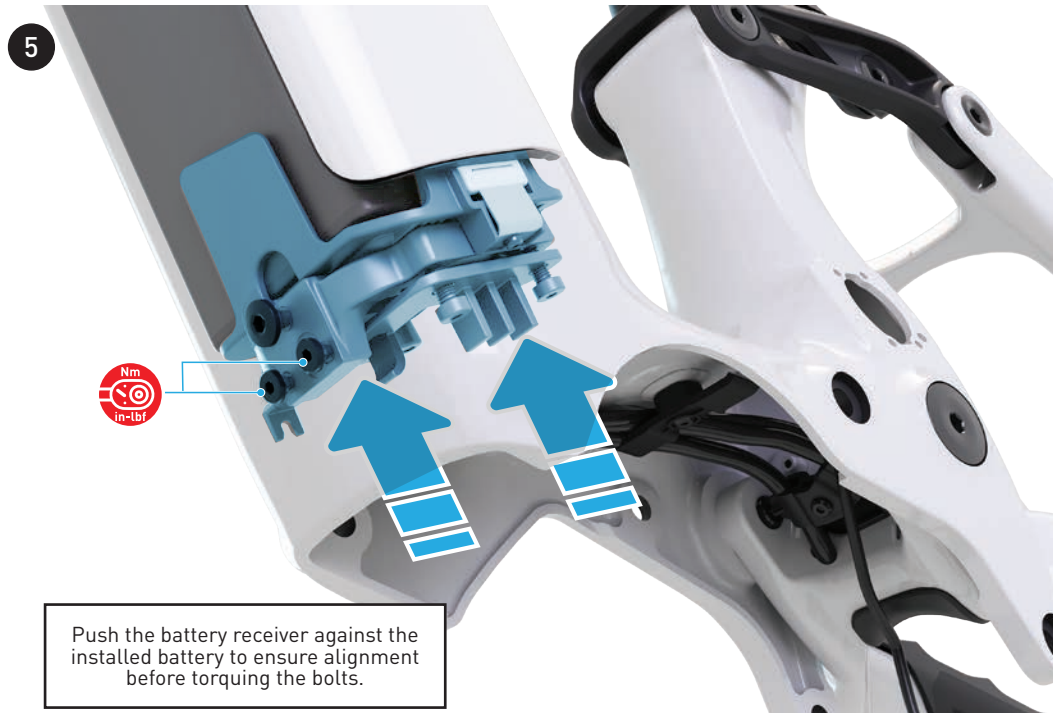


4



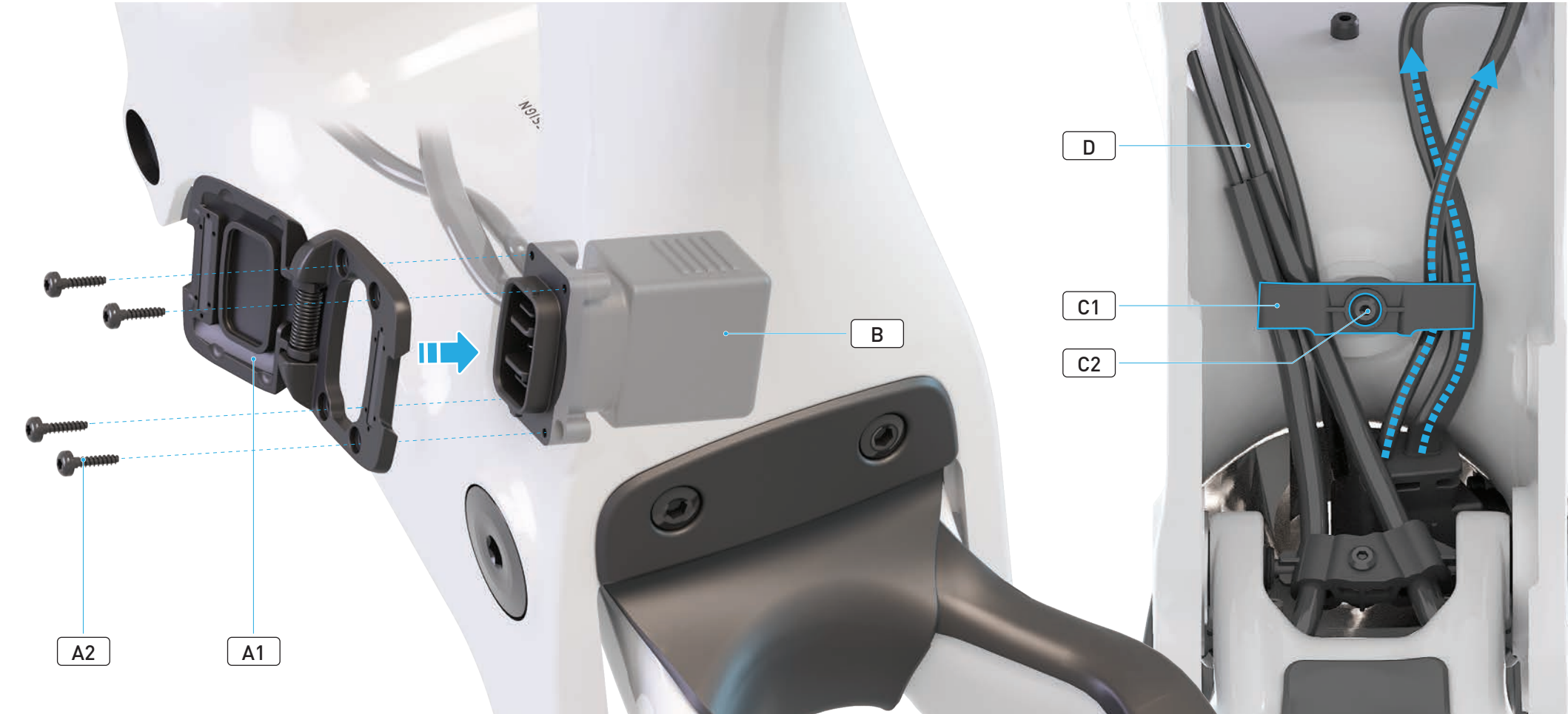
LEVO 4 BATTERY & BATTERY RECEIVER REPLACEMENT GUIDE



<https://vimeo.com/941480035?share=copy>



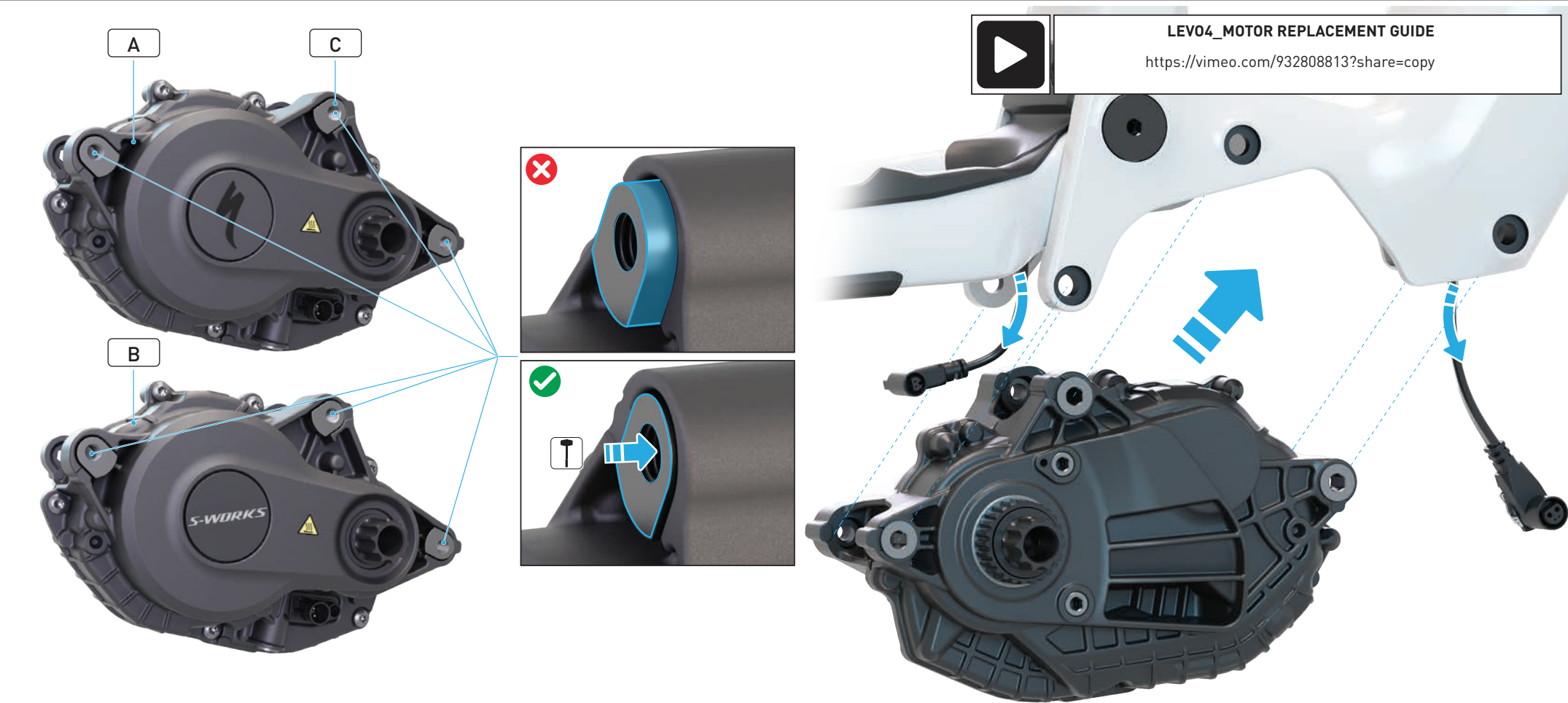
6. BATTERY AND MOTOR

6.1. CHARGEPORT DOOR ASSEMBLY



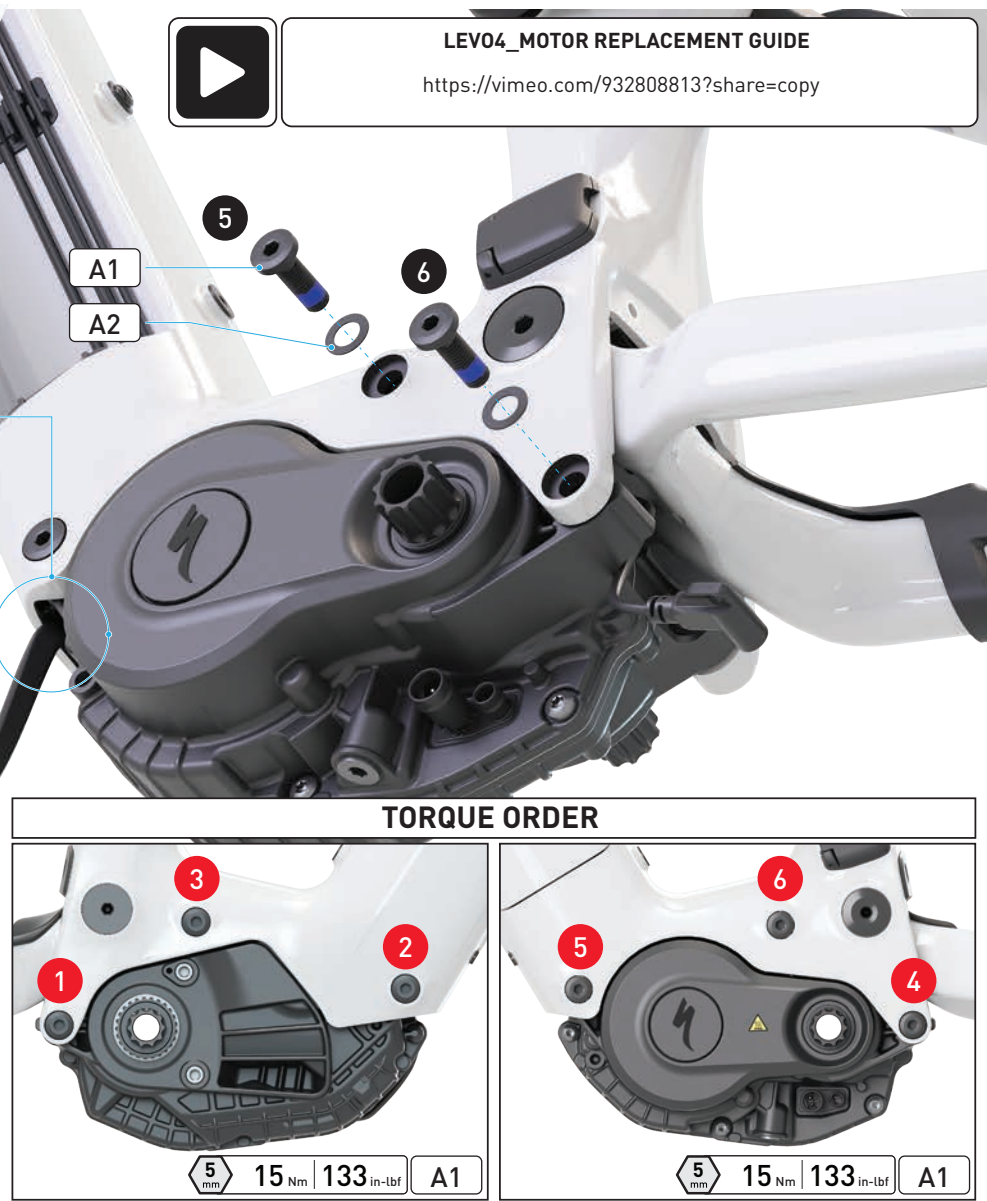

| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|---------------------------------|-------------------------------|----------------------------|------------|-----|--|------------|--------|--------|---|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Chargeport Door | S229900027 | | 1 | CHARGEPORT DOOR,PLUTO,SELFOPENING | | | | |
| | A2 | Chargeport Door Screw | | | 4 | M2.2 x 10 mm | T8 Torx | 0.5 | 4 | |
| B | Main Harness -Motor-Battery-HMI | | S226800022 | | 1 | CA,MAIN HARNESS,BROSE,PLUTO | | | | Motor-Battery-HMI |
| C | C1 | Motor Cavity Cable Guide | S246500009 | | 1 | ICR,FIX,MOTOR MOUNT,MTB,PA TRAIL FSR H2.2 | | | | |
| | C2 | Motor Cavity Cable Guide Bolt | | | 1 | M4 x 8 mm x 0.7 mm P | 2.5 mm hex | 2.5 | 22 |   Apply to contact surface / avoid the thread |
| D | AXS Derailleur Adaptor Cable | | S246800019 | | 1 | ELE WIRING, SPECIALIZED FULL POWER 3.1 SYSTEM, WIRED AXS DERAILLEUR ADAPTER CABLE, 780MM LENGTH | | | | AXS Equipped Models Only |

6.2. MOTOR ASSEMBLY





| | PART NAME | PART # | ALT PART # | QTY | DESCRIPTION | NOTES |
|---|------------------------------|----------------------------|------------|-----|--|---|
| A | Motor - Gen 3 | S226800019 | | 1 | MOTOR TLA,BROSE GEN3 | |
| B | S-Works Motor - Gen 3 | S246800025 | | 1 | MOTOR TLA,BROSE GEN3,S-WORKS | |
| C | Threaded Motor Mount Inserts | Included with motor | | 3 | THREADED MOTOR MOUNT INSERTS, NON-DRIVE SIDE | Use a rubber mallet to reset the position of all three NDS inserts before installing the motor. |

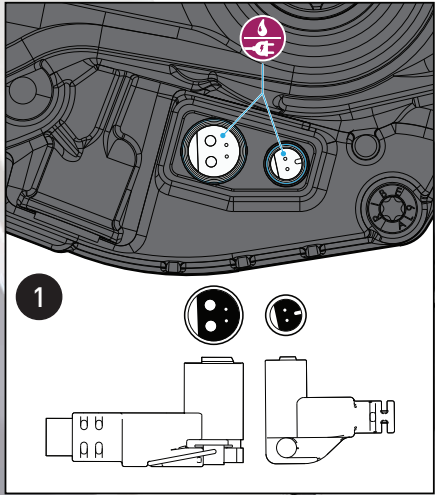
6.3. MOTOR ASSEMBLY - MOTOR BOLTS



LEV04_MOTOR REPLACEMENT GUIDE

<https://vimeo.com/932808813?share=copy>

| | PART NAME | | PART # | ALT PART # | QTY | DESCRIPTION | TOOL | TORQUE | | NOTES |
|---|-----------|--------------------|------------|------------|-----|---------------------------------|----------|--------|--------|--|
| | | | | | | | | Nm | in-lbf | |
| A | A1 | Motor Mount Bolt | S240500008 | | 6 | M8 x 24 mm x 1.25 mm P | 5 mm hex | 15 | 133 |   Follow the order in red when torquing the bolts. |
| | A2 | Motor Mount Washer | | | 6 | 9 mm ID x 15 mm OD x 0.5 mm Thk | | | | |



LEV04_MOTOR REPLACEMENT GUIDE

<https://vimeo.com/932808813?share=copy>

