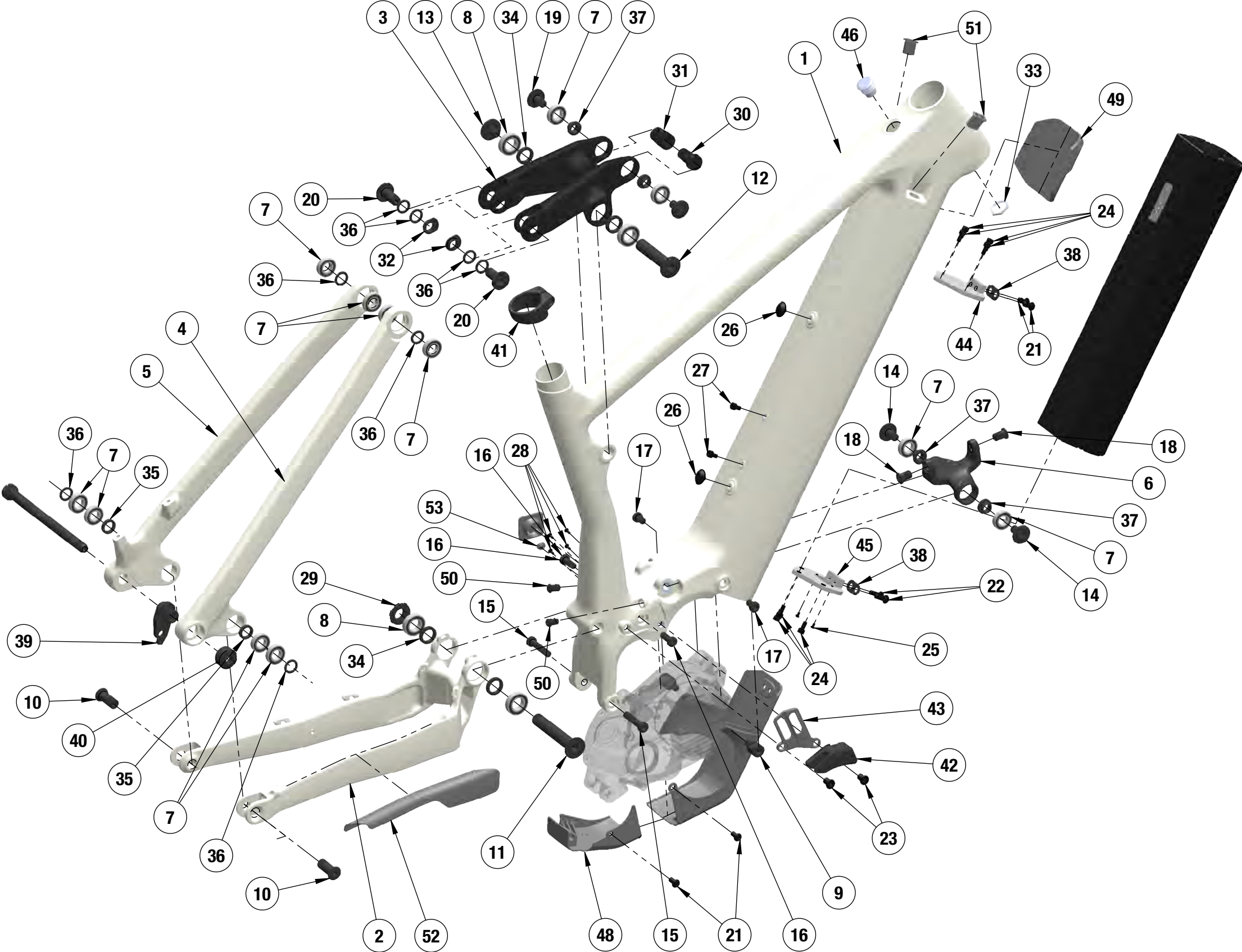




RANGE VLT

FRAME ASSEMBLY & SERVICE PARTS REFERENCE



ASSEMBLY DOCUMENT

BILL OF MATERIALS

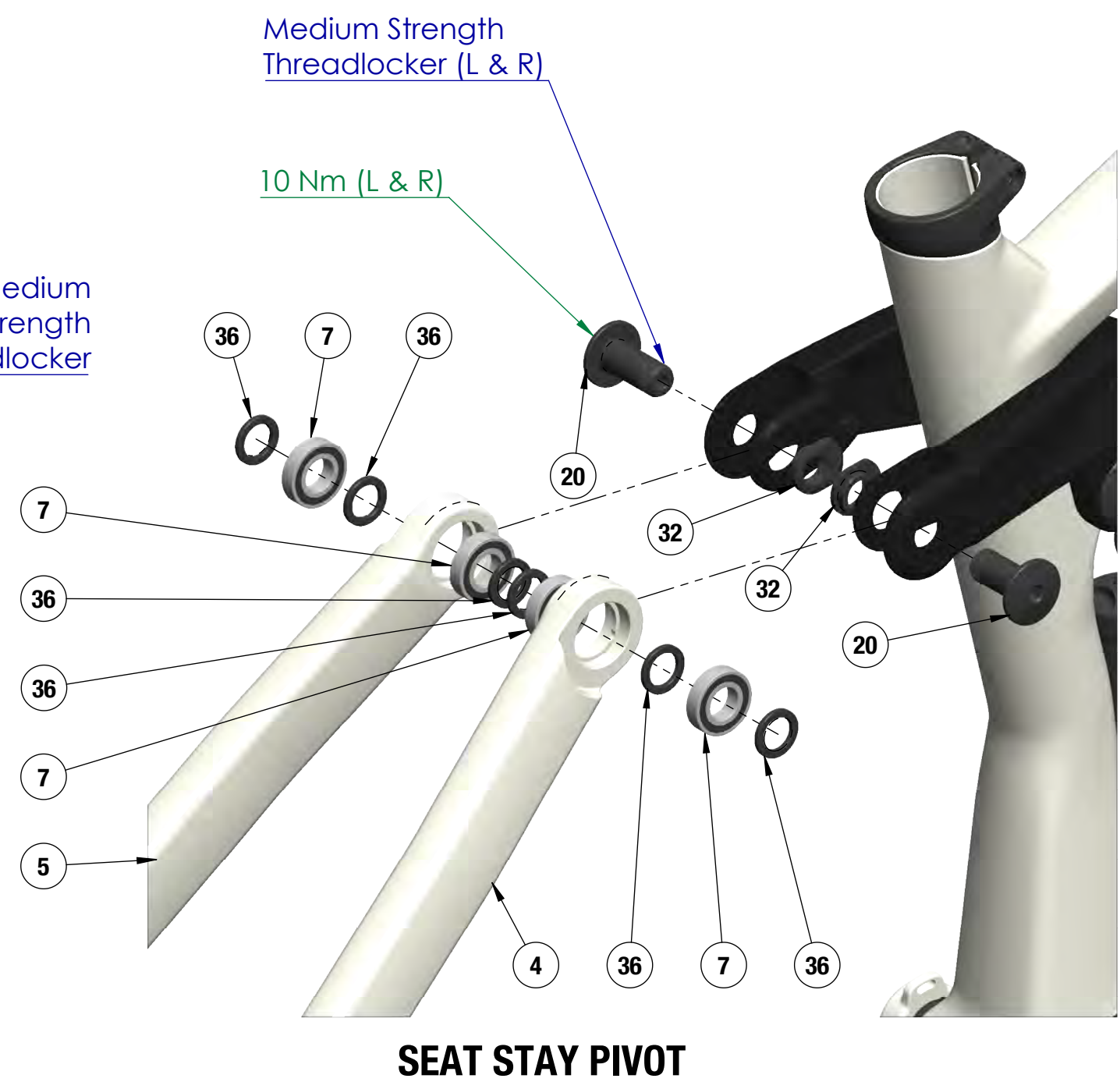
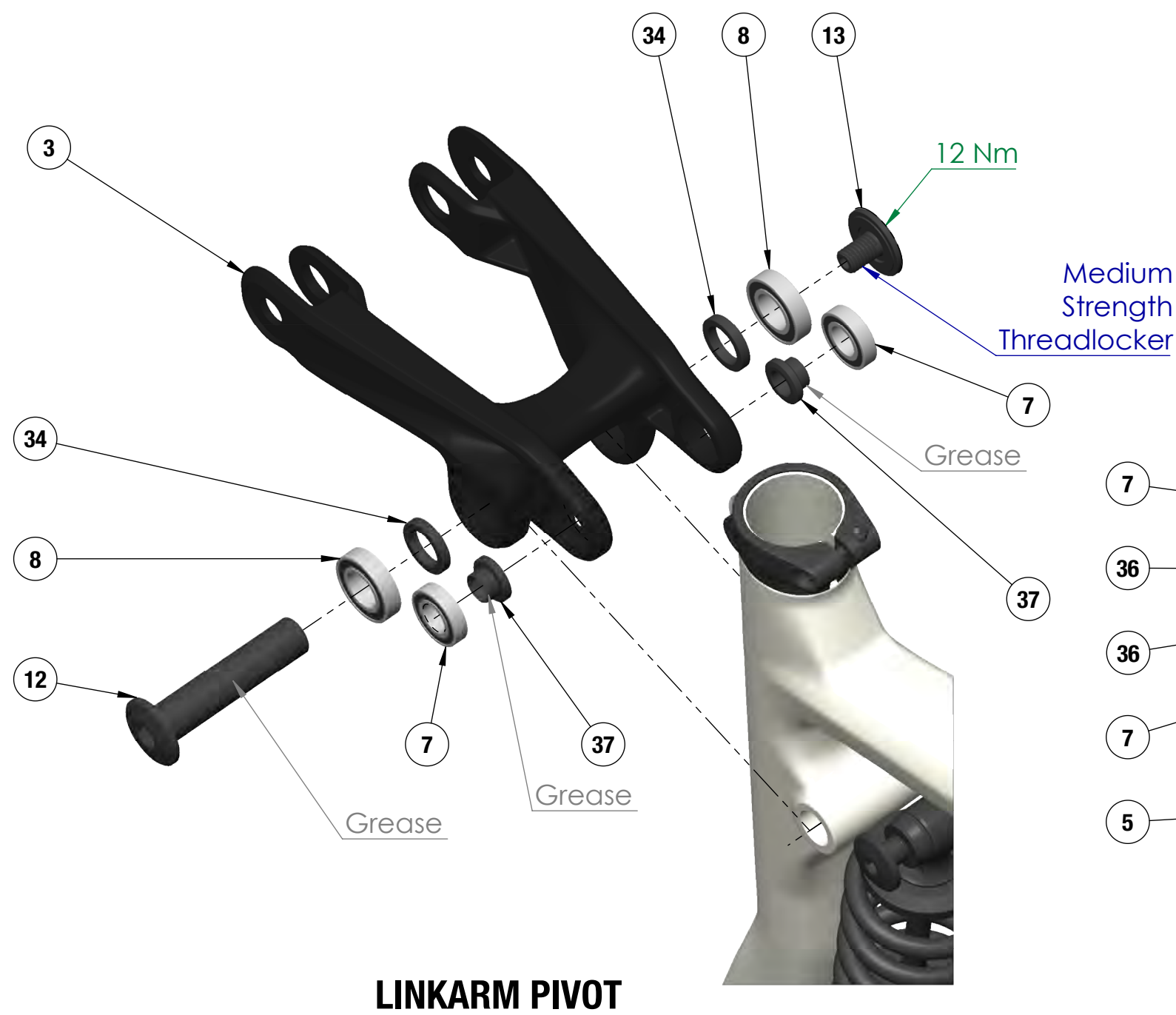
RANGE VLT



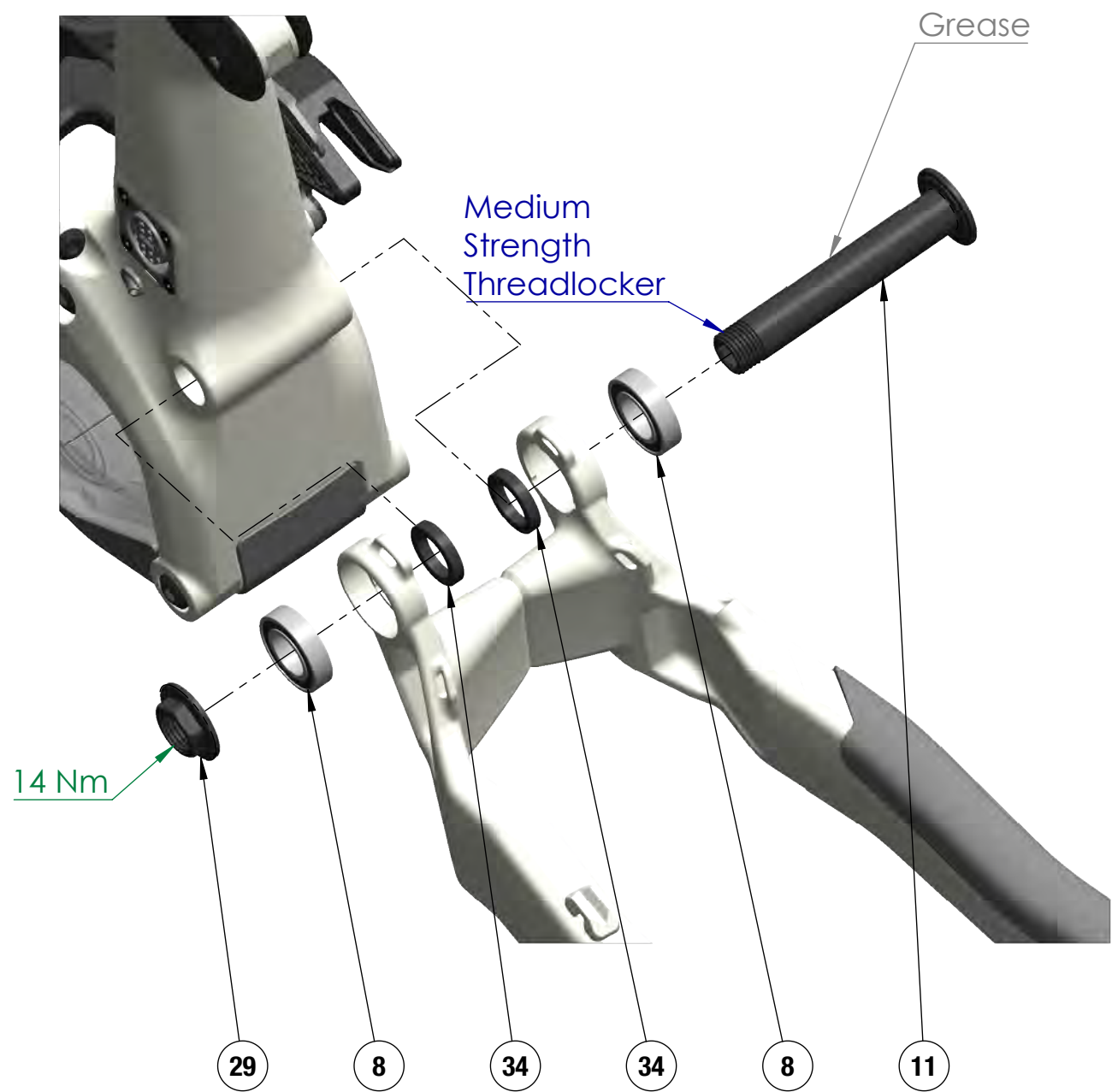
ADDITIONAL FRAME INFORMATION	
AVAILABLE FRAME SIZES	M, L, XL
S.H.I.S.	ZS44/28.6 ZS56/40
MAX. FORK LENGTH, OFFSET [mm]	582, 37
MOTOR MOUNTING STANDARD	SHIMANO E8000
MAX CHAINRING SIZE	38
O.L.D. [mm]	148
REAR BRAKE MOUNT [mm]	POST, 180
SEATPOST DIAMETER [mm]	34.9
RECOMMENDED TIRE SIZE	27.5" X 2.35" - 2.6"
SHOCK DIMENSIONS, WIDTH X STROKE [mm]	205 X 65
SHOCK HARDWARE - BODY [mm]	TRUNNION
SHOCK HARDWARE - SHAFT [mm]	N/A
ISCG 05 MOUNTS	NO
REAR AXLE TYPE	SYNTACE 174mm

ADDITIONAL SERVICE PARTS			
ITEM NO.	SUPPORT PART NUMBER	QTY.	DESCRIPTION
I	02915800-005	1	360 Wh EXT BATTERY W/CONNECTOR
II	02915800-006	1	360 Wh BATTERY ACCESSORY KIT
III	915700-009	1	CHARGEPORT COVER W/ LOOP
IV	915700-009-11	1	NEW GEN2 CHARGE PORT w/CONNECTOR
V	915801-001-1	1	MAIN WIRE HARNESS EX VERSION
VI	915800-004	1	630 Wh INTUBE BATTERY EX READY
VII	-	1	500 Wh INTUBE BATTERY EX READY
VIII	-	1	DU COVER ADAPTER, E7000, RH
IX	-	1	DU COVER ADAPTER, E7000, LH

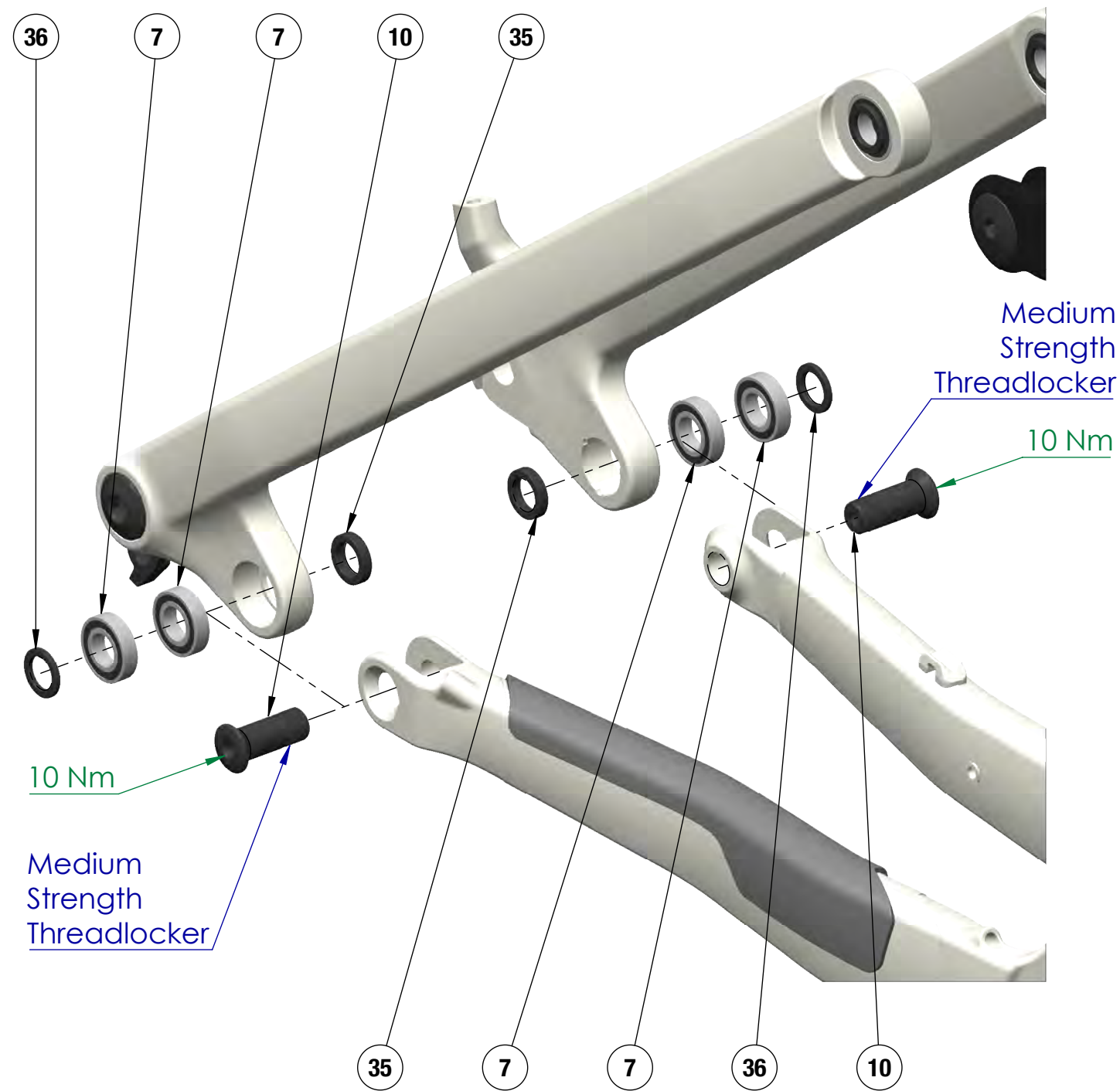
ITEM NO.	SERVICE PART NUMBER	QTY.	DESCRIPTION	MATERIAL	TORQUE
1	SEE CUSTOMER SERVICE	1	FT, RANGE VLT, MY20	CARBON	-
2		1	CS, RANGE VLT, MY20	ALUMINIUM	-
3		1	LA, RANGE VLT, MY20	ALUMINIUM	-
4		1	SS, RH, RANGE VLT, MY20	CARBON	-
5		1	SS, LH, RANGE VLT, MY20	CARBON	-
6	913800-022	1	SHOCK EXTENSION, RANGE VLT, MY20	ALUMINIUM	-
7	913200-6901	12	6901-2RS SEALED BEARING, 12X24X6MM	ALLOY STEEL	-
8	913200-6902	4	6902-2RS SEALED BEARING, 15X28X7MM	ALLOY STEEL	-
9	913300-015	2	DU MOTORSPACER SHIMANO	STAINLESS STEEL	12.5 NM
10	913500-013	2	SHAFT, DIA12, L30.5, M12X1.25, HEX6	7075-T6	10 NM
11	913500-016	1	SHAFT, DIA15, L86.5, M15X1.5, HEX8	7075-T6	14 NM
12	913500-014	1	SHAFT, DIA15, L66.5, M10X1.5 INT, HEX8	7075-T6	10 NM
13	913700-003	1	BOLT, M10X1.5, L13, HEX5	7075-T6	12 NM
14	913800-023	2	BOLT, M10X1, L17, HEX5, INTERNAL M4	7075-T6	8 NM
15	913400-019	2	BOLT M8X1.25, L38, HEX5	AISI 316 SS BAR	10 NM
16	913400-018	2	BOLT, M8X1.25, L20, HEX5	AISI 316 SS BAR	10 NM
17	913400-020	2	BOLT, M8X1.25, L14	AISI 316 SS BAR	10 NM
18	913800-018	2	BOLT, M10X1, L14, HEX5	7075-T6	8 NM
19	913800-005	2	BOLT, M10X1, L17, HEX5	7075-T6	8 NM
20	913500-019	2	SHAFT, M12X1.25, L26.5, HEX5	7075-T6	10 NM
21	913400-016	4	M6X12MM BUTTON HEAD CAP	STEEL, BLACK CHROMATE	REFER TO DETAIL
22	913400-033	2	M6X16MM BUTTON HEAD CAP	STEEL, BLACK CHROMATE	4 NM
23	913400-037	2	CHAINRING SCREW, 10mm, T25	STEEL	3 NM
24	913400-021	7	M5X10MM SOCKET HEAD CAP	STEEL, BLACK CHROMATE	4 NM
25	913400-025	2	M3X5MM BUTTON HEAD CAP	STEEL, BLACK CHROMATE	2 NM
26	913400-039	2	BOLT, M4X08, L8, HEX5, COVERBOLT	7075-T6	1 NM
27	913400-040	2	M5X8MM SOCKET HEAD CAP	STEEL, BLACK CHROMATE	3 NM
28	913400-022	4	M3X8MM COUNTERSUNK SOCKET HEAD CAP	STEEL, BLACK CHROMATE	2 NM
29	913700-005	1	NUT, M15X1.5, 18HEX	7075-T6	10 NM
30	913800-021	1	NUT, L7.65, M10X1.0 ,M14X1.5 HEX5 SHOCK EXCENTER ADAPTER	7075-T6	10 NM
31	913800-020	1	NUT, L27.65, M10X1.0 ,M14X1.5 HEX6	7075-T6	10 NM
32	913700-006	2	NUT, M12X1.25, KEYED	AISI 316 SS BAR	-
33	913700-007	2	NUT, M18X1.5, 2.5mm, POWER SWITCH		HAND TIGHTEN
34	913300-003	4	SPACER, ID15, OD22, L4	7075-T6	-
35	913300-001	2	SPACER, ID12, OD18, L4	7075-T6	-
36	913300-002	8	SPACER, ID12, OD18, L2	7075-T6	-
37	913800-006	4	TOPHAT, ID10, OD12, L3.5	AISI 316 SS BAR	-
38	913300-016	2	SPACER, DT BATTERY BRACKET	ALUMINIUM	-
39	913015-004	1	RD HANGER, TWO PIECE, M12X1 HANGER	ALUMINIUM	-
40	913020-002	1	RD HANGER, TWO PIECE, M18X1 NUT, HEX8	ALUMINIUM	-
41	915000-008	1	NORCO SEATPOST CLAMP, 38.0mm	ALUMINIUM	-
42	914200-005	1	E13, TRS, HEAD ONLY		-
43	914200-006	1	CHAINGUIDE BACKPLATE FOR E-13 TRS PLUS, RANGE VLT, MY20	ALUMINIUM	-
44	915700-010	1	BATTERY MOUNTING BRACKET, TOP SIDE	ALUMINIUM	-
45	915700-011	1	BATTERY MOUNTING BRACKET, BOTTOM, TP-SMN-01/02	ALUMINIUM	-
46	915700-013	1	POWER SWITCH		-
47	915500-003	1	DU GUARD FRONT, SIGHT VLT, MY19	PLASTIC	-
48	915500-004	1	DU GUARD REAR, SIGHT VLT, MY19	PLASTIC	-
49	915500-009	1	DT GUARD, RANGE VLT, MY20	EPDM RUBBER	-
50	959800-15-303	2	GIZMO, RUBBER GROMMET, OD7.9, ID4.1	EPDM RUBBER	-
51	914100-027	2	GIZMO3, 2P, 5mm & 6mm	EPDM RUBBER	-
52	915200-014	1	CHAINSTAY GUARD, SIGHT VLT, MY19	POLYURETHANE	-
53	914100-011	1	GROMMET, SHIMANO, DI2, 7X8MM, SM-GM02	EPDM RUBBER	-
54	915700-009	1	CHARGEPORT COVER SIMPLO GEN2 CHARGEPORT	EPDM RUBBER	-



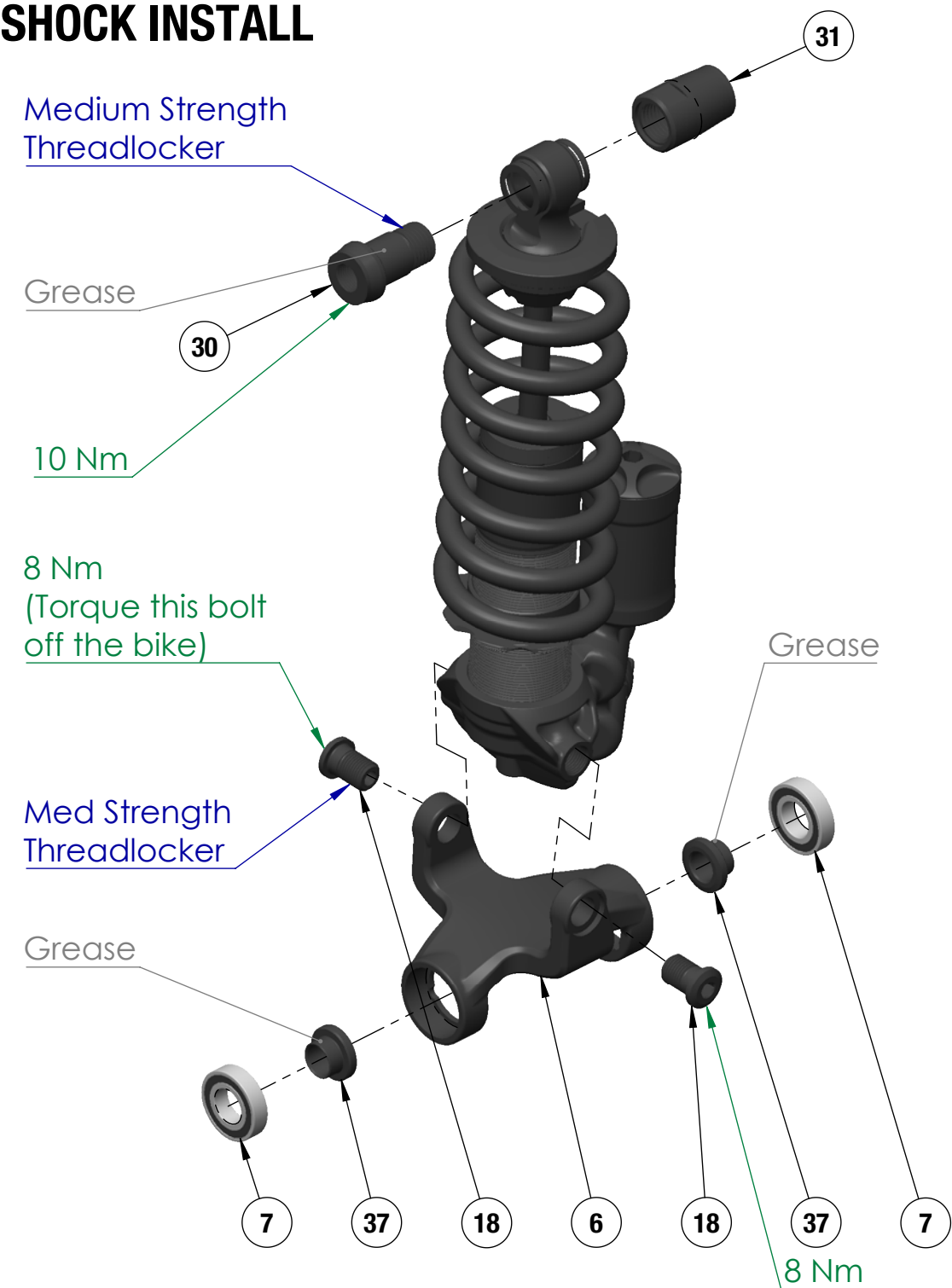
- Note:
1. **36** sit in between the two bearings on each seat stay.
 2. Use Loctite 242 or equivalent as Medium Strength Threadlocker.



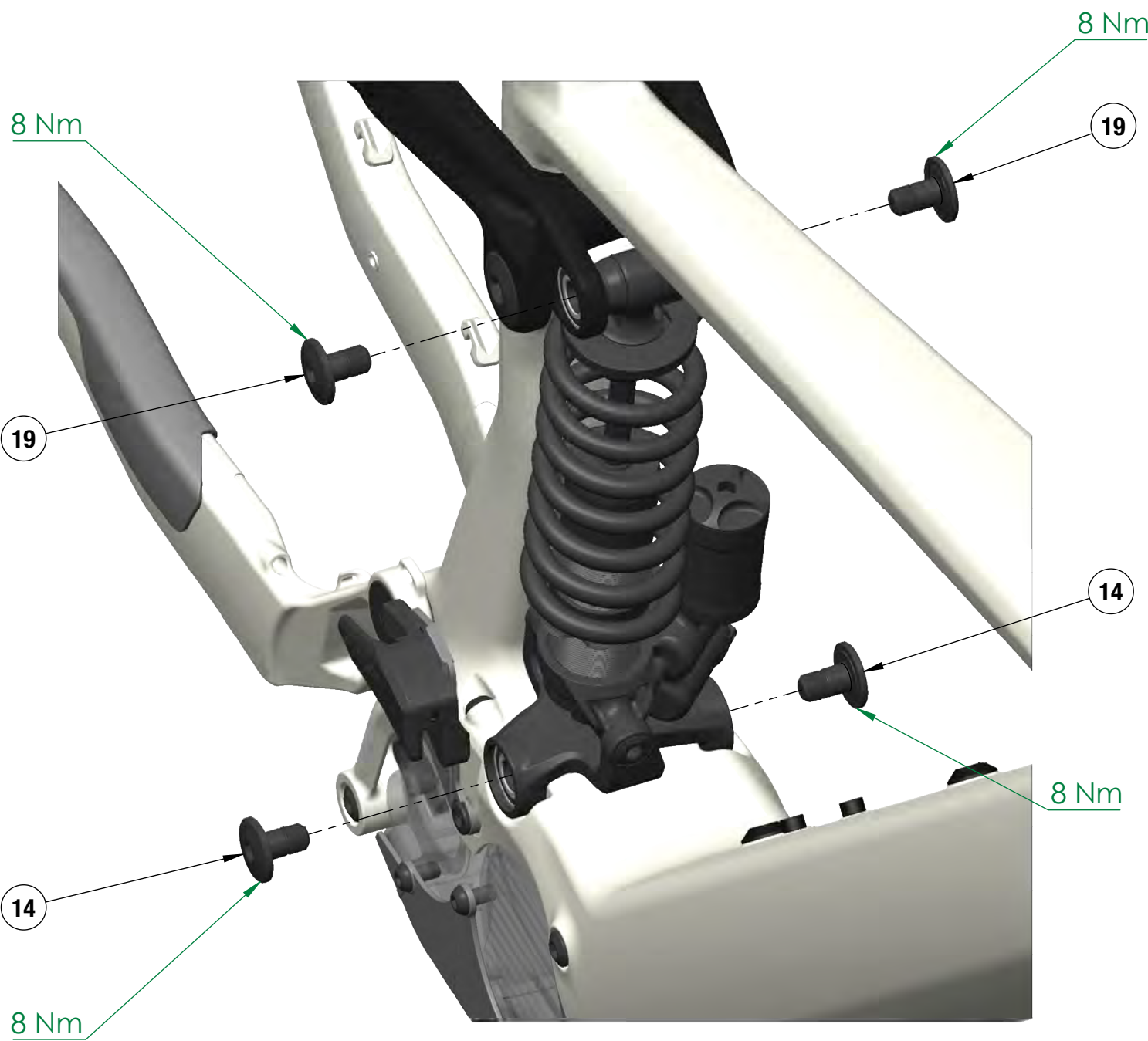
MAIN PIVOT



HORST PIVOT

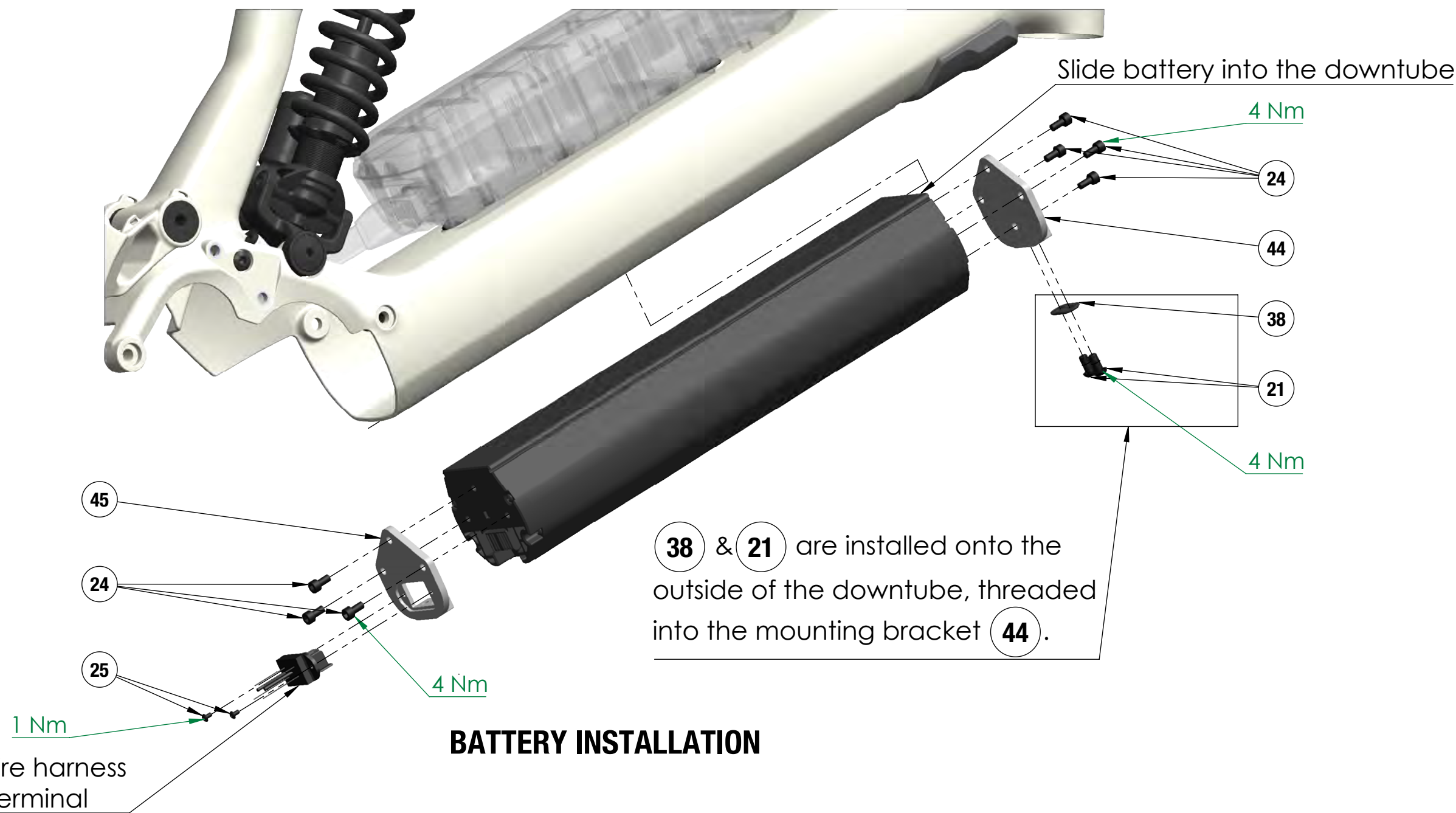


SHOCK HARDWARE



SHOCK INSTALLATION

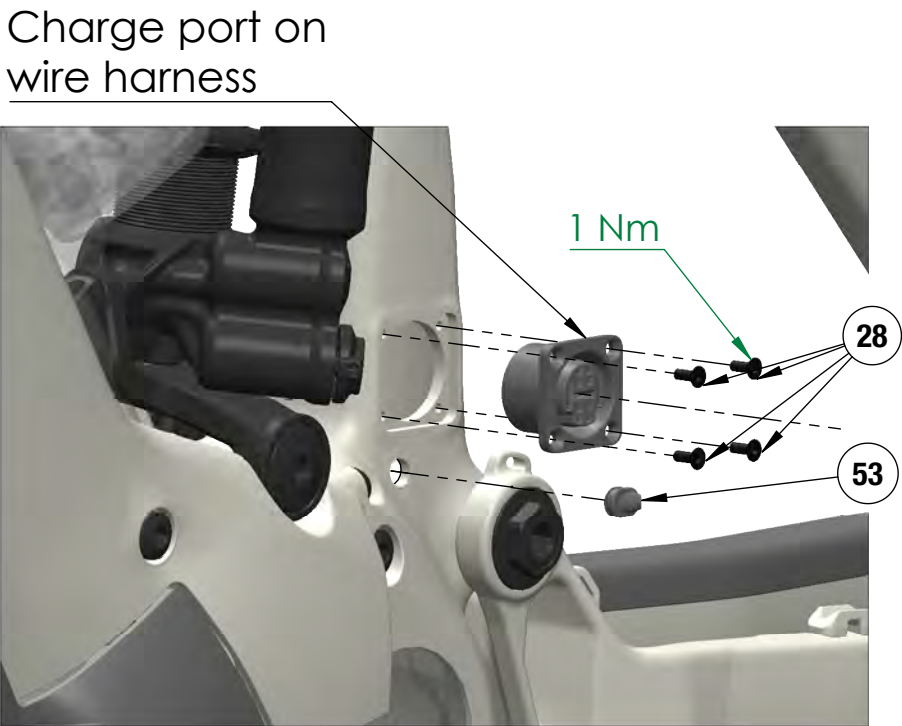
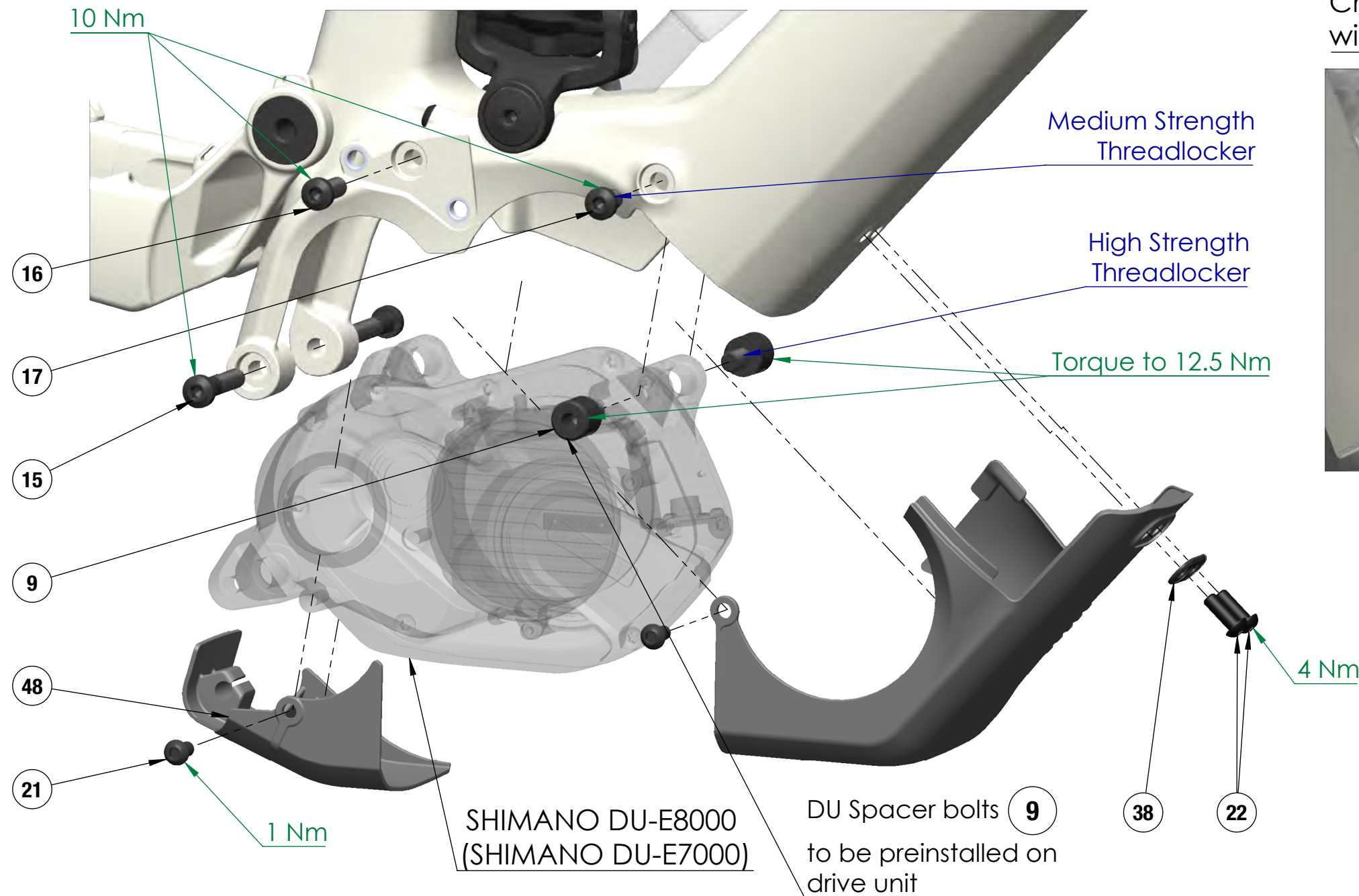
Note: Shock reservoir is oriented towards the non-drive side of the frame.
(31) is on non-drive side; (30) is on drive side.



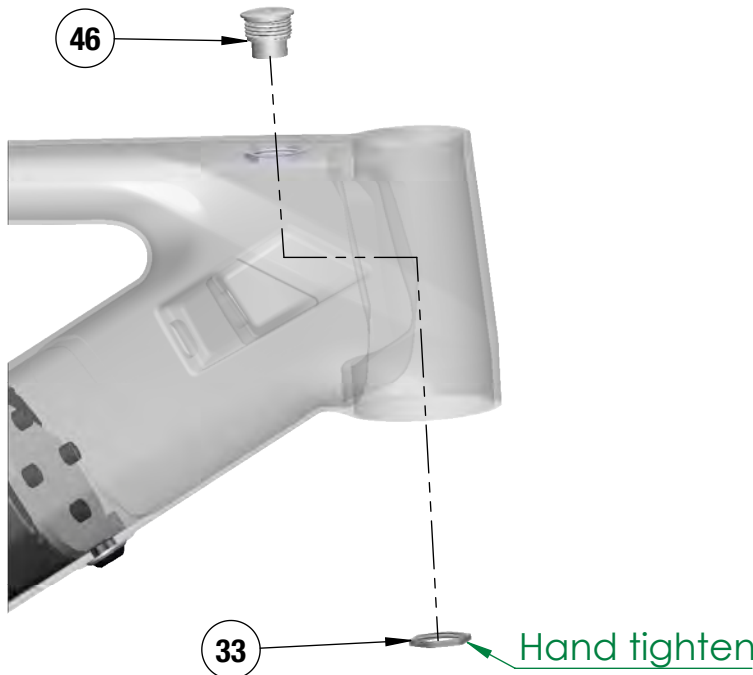
BATTERY INSTALLATION

Note: Sequence of Install

1. Secure battery mounting brackets 44 & 45 to the battery using 24.
2. Connect wire harness to battery and secure to mounting bracket 45 with 25.
3. Slide battery into downtube.
4. Secure battery in place using spacer 38 and bolts 21.

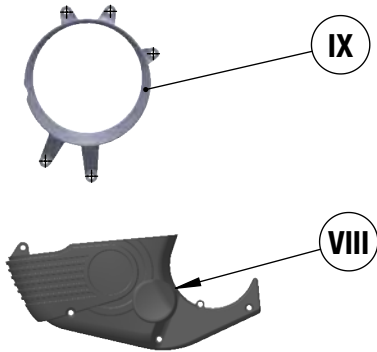


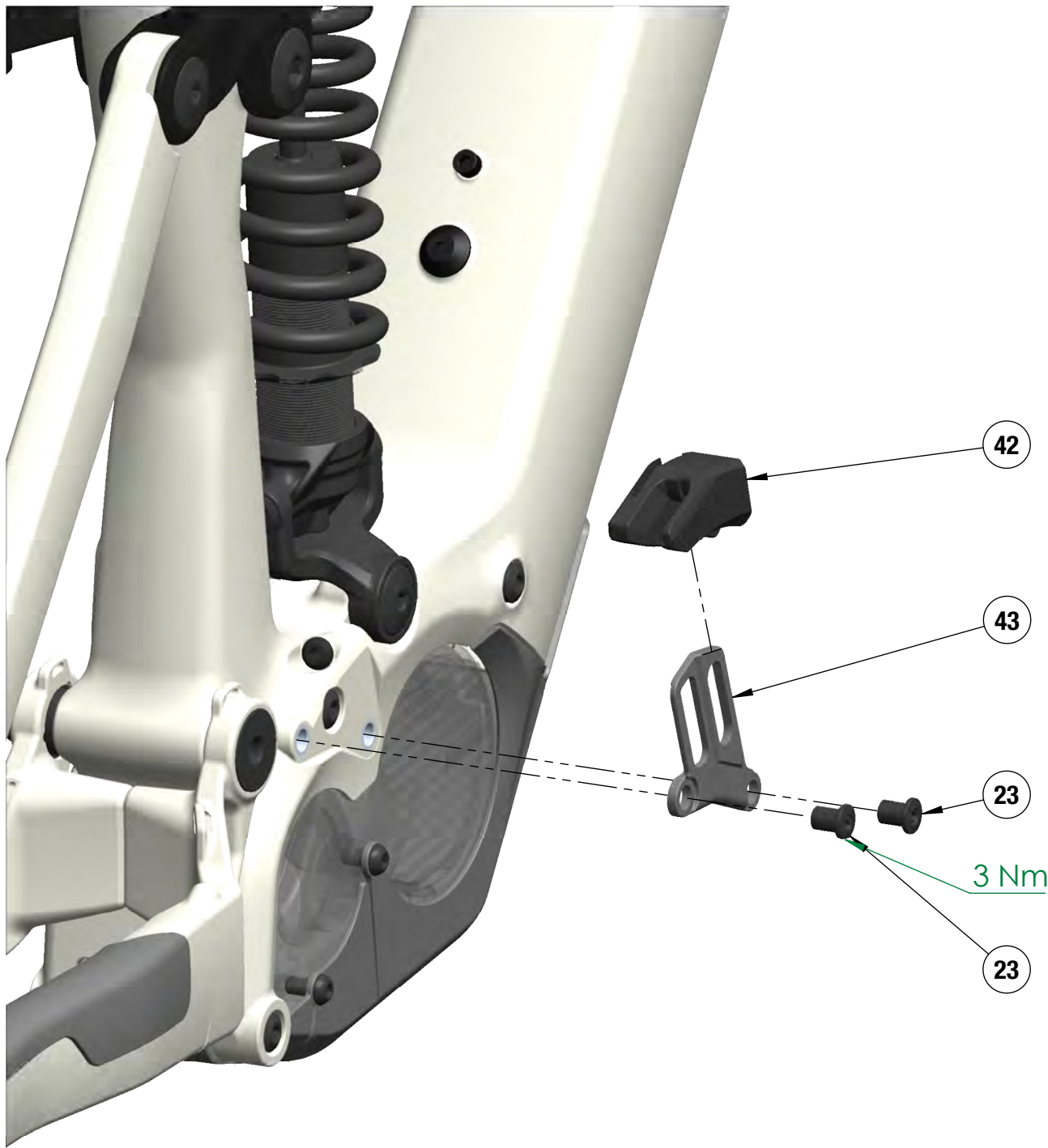
CHARGE PORT INSTALL



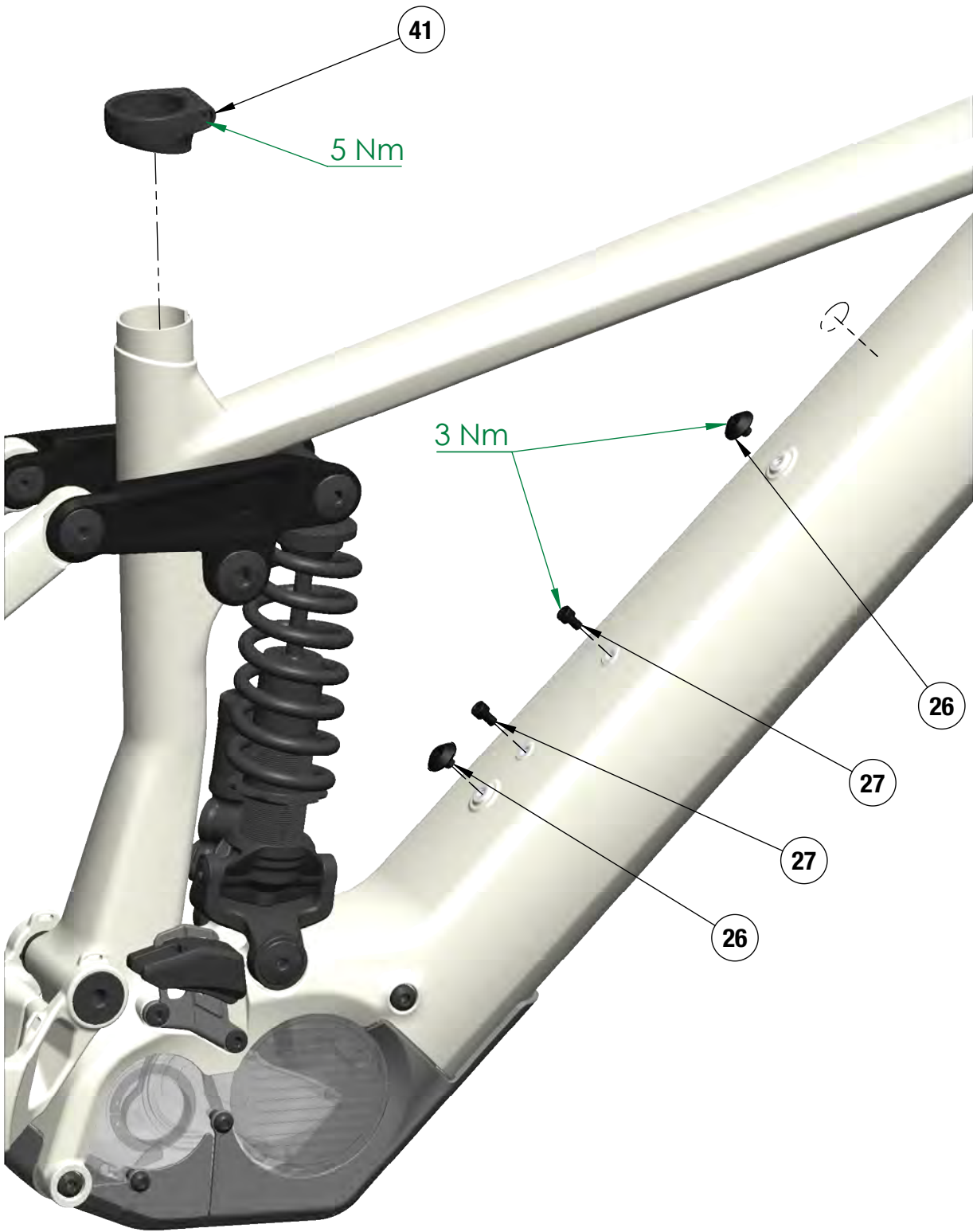
POWER BUTTON INSTALL

- Note:
1. **IX** & **VIII** are motor adapters applicable only to the Shimano DU-E7000 drive unit.
 2. The cable connecting the speed sensor to the drive unit is routed through cable port **53**.
 3. Use Loctite 242 for Medium Strength and Loctite 271 for High Strength Threadlockers (or equivalent).

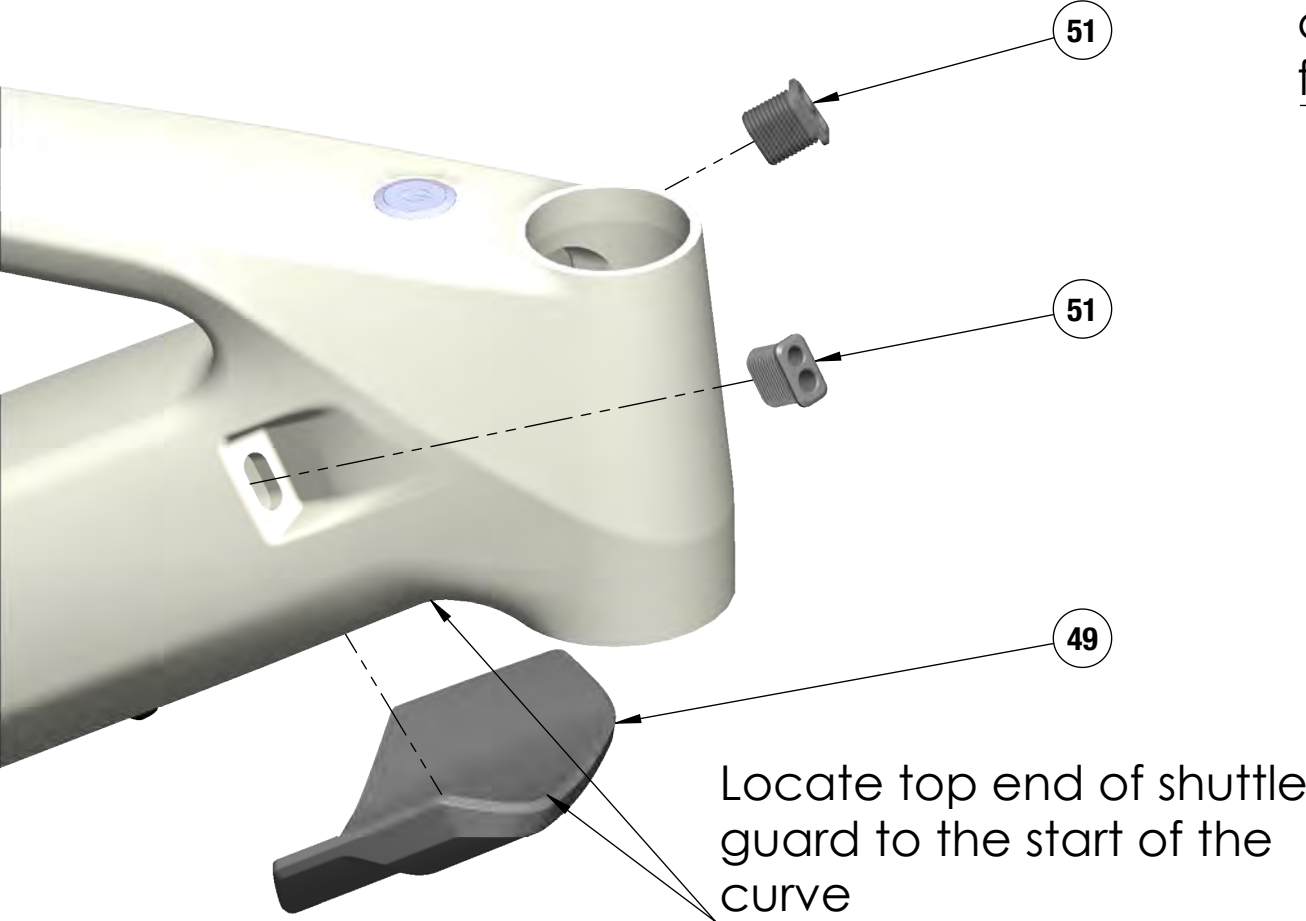




CHAINGUIDE INSTALL

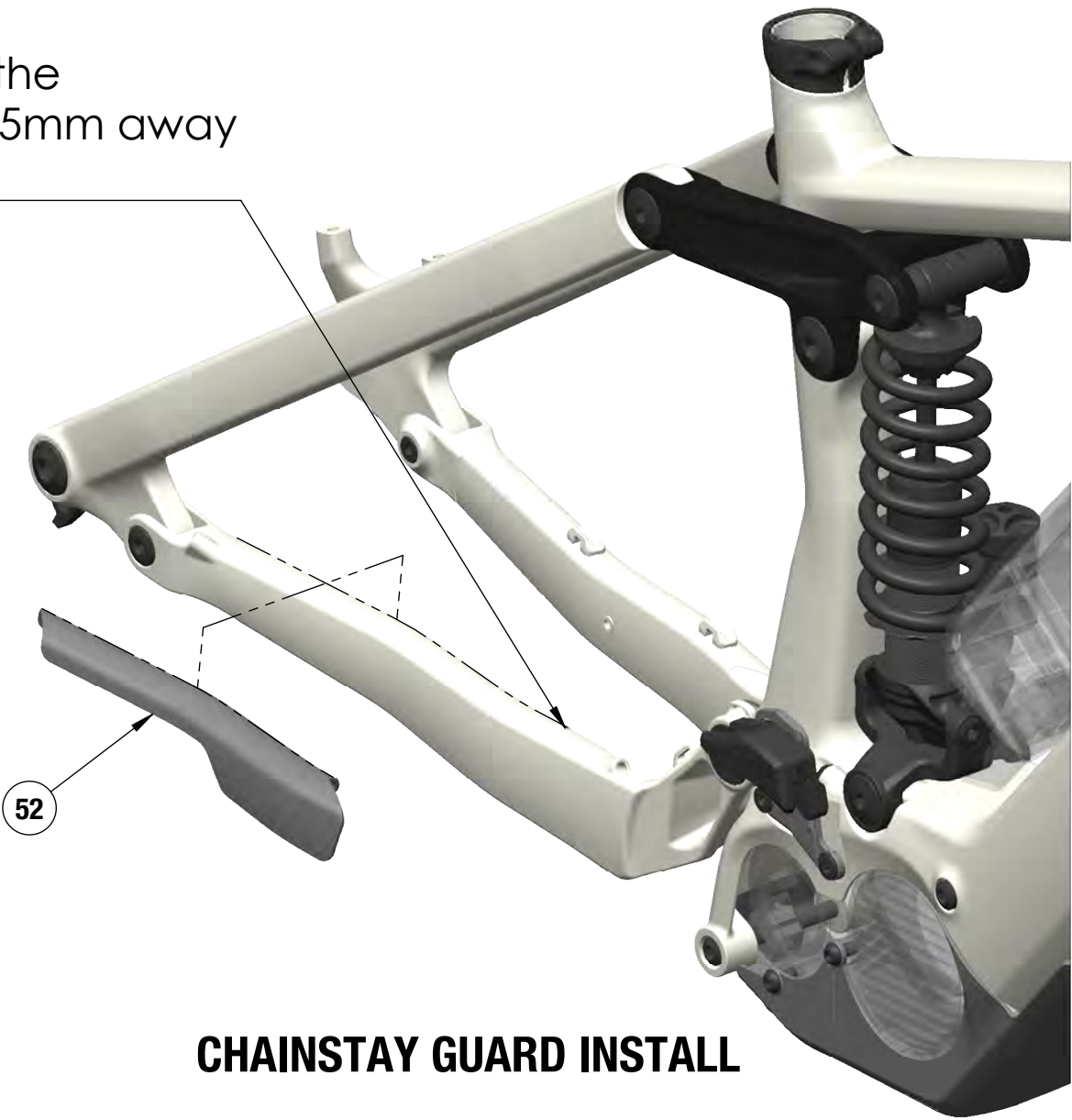


SEATPOST CLAMP & DOWNTUBE BOLTS

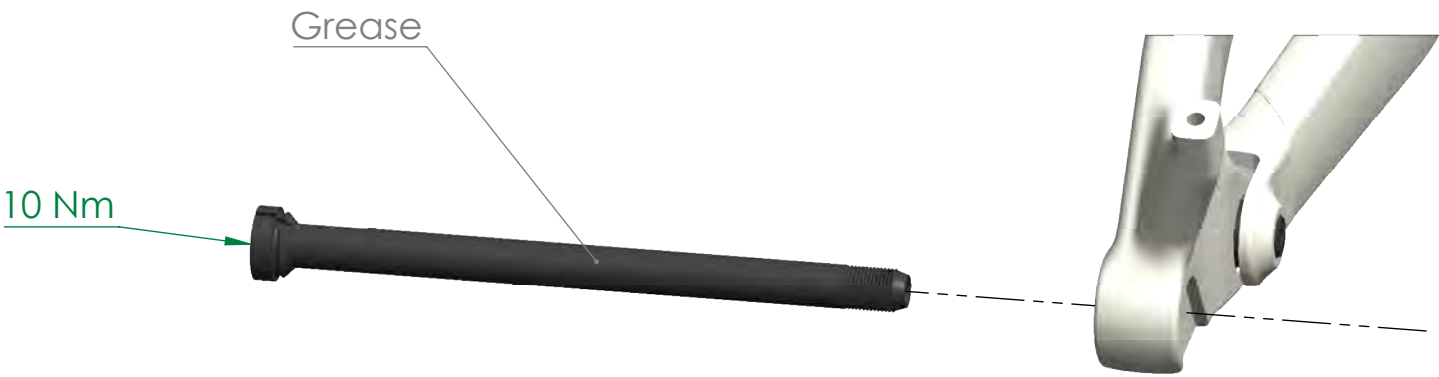


SHUTTLE GUARD & CABLE PORTS

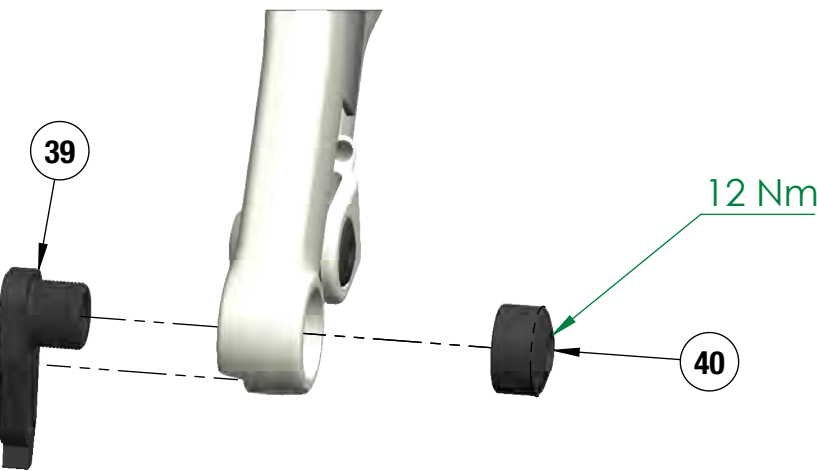
Align the end of the chainstay guard 5mm away from the weld

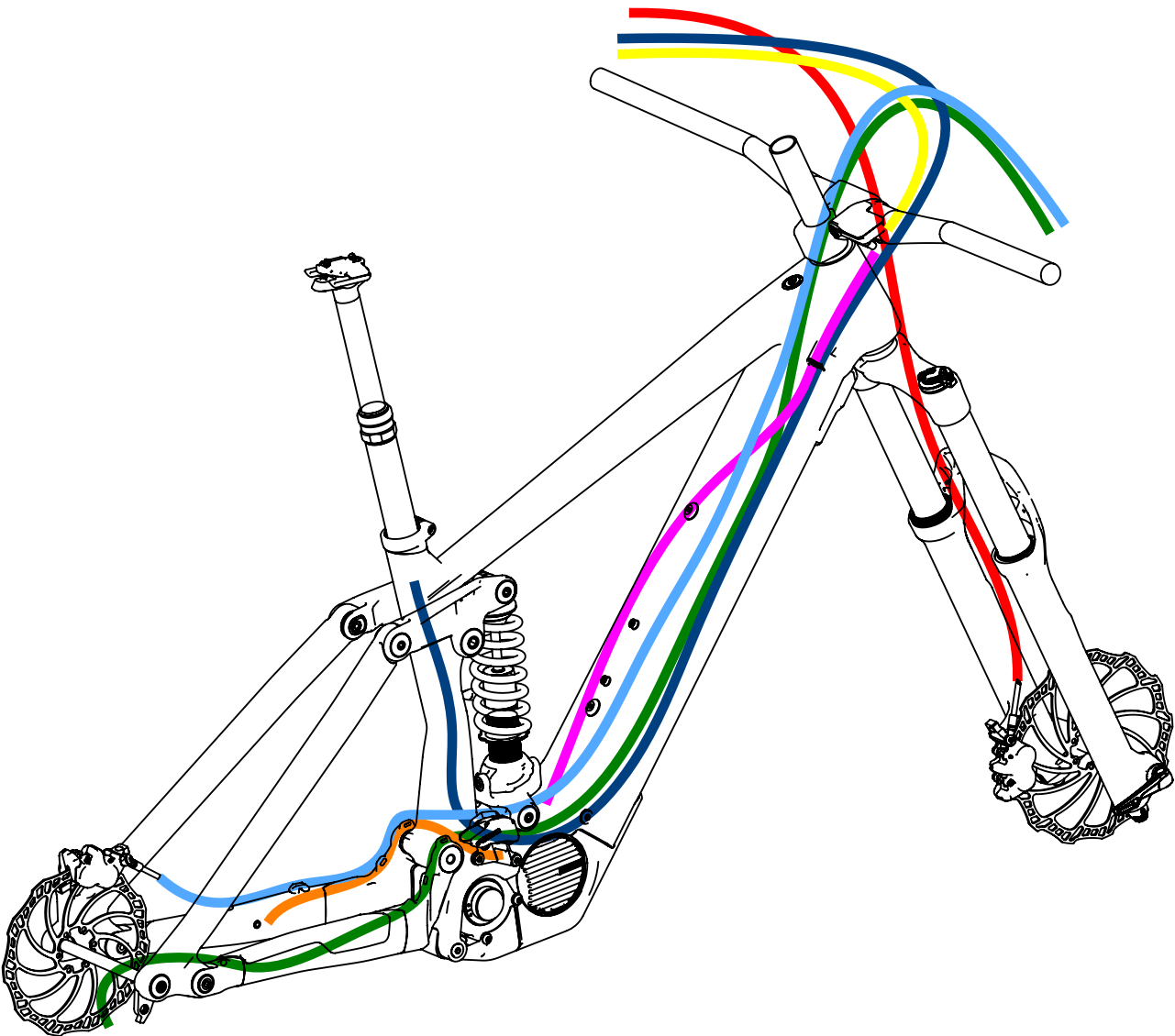
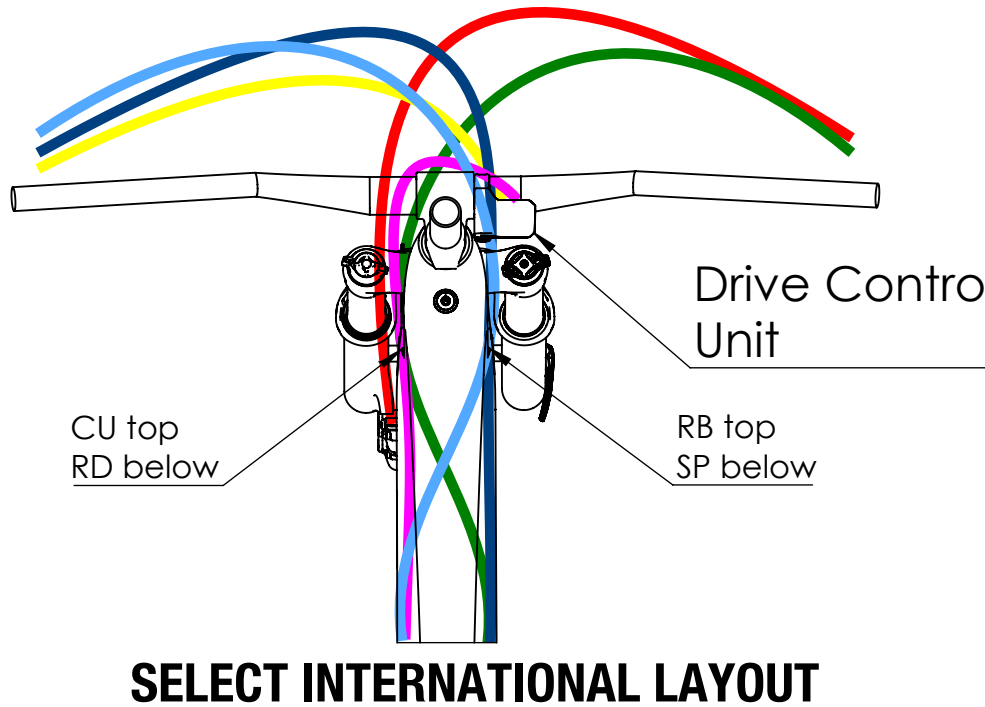
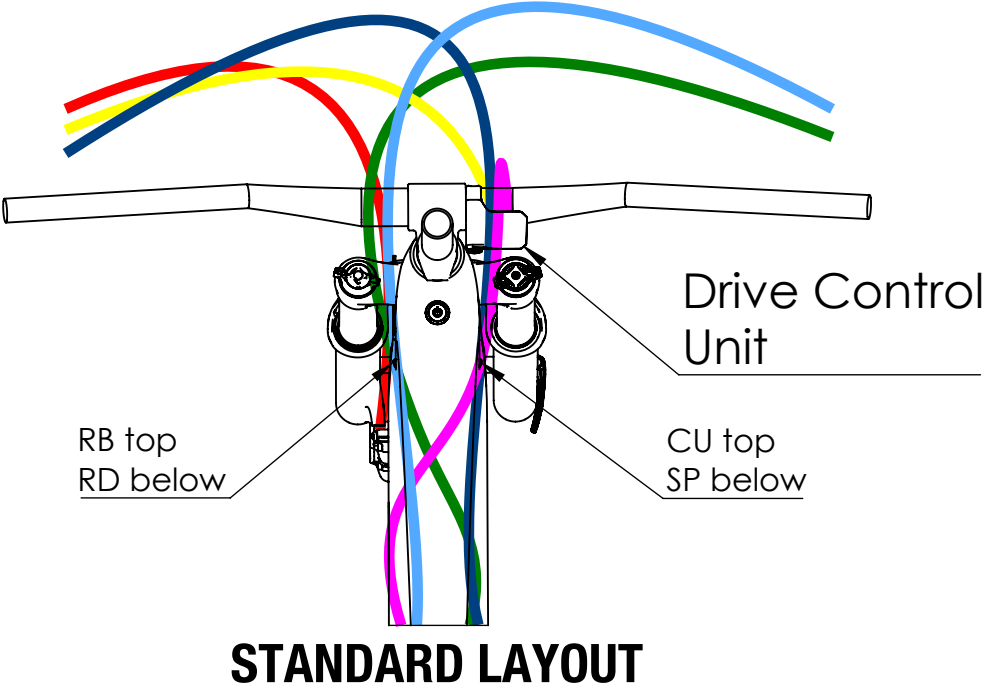


CHAINSTAY GUARD INSTALL

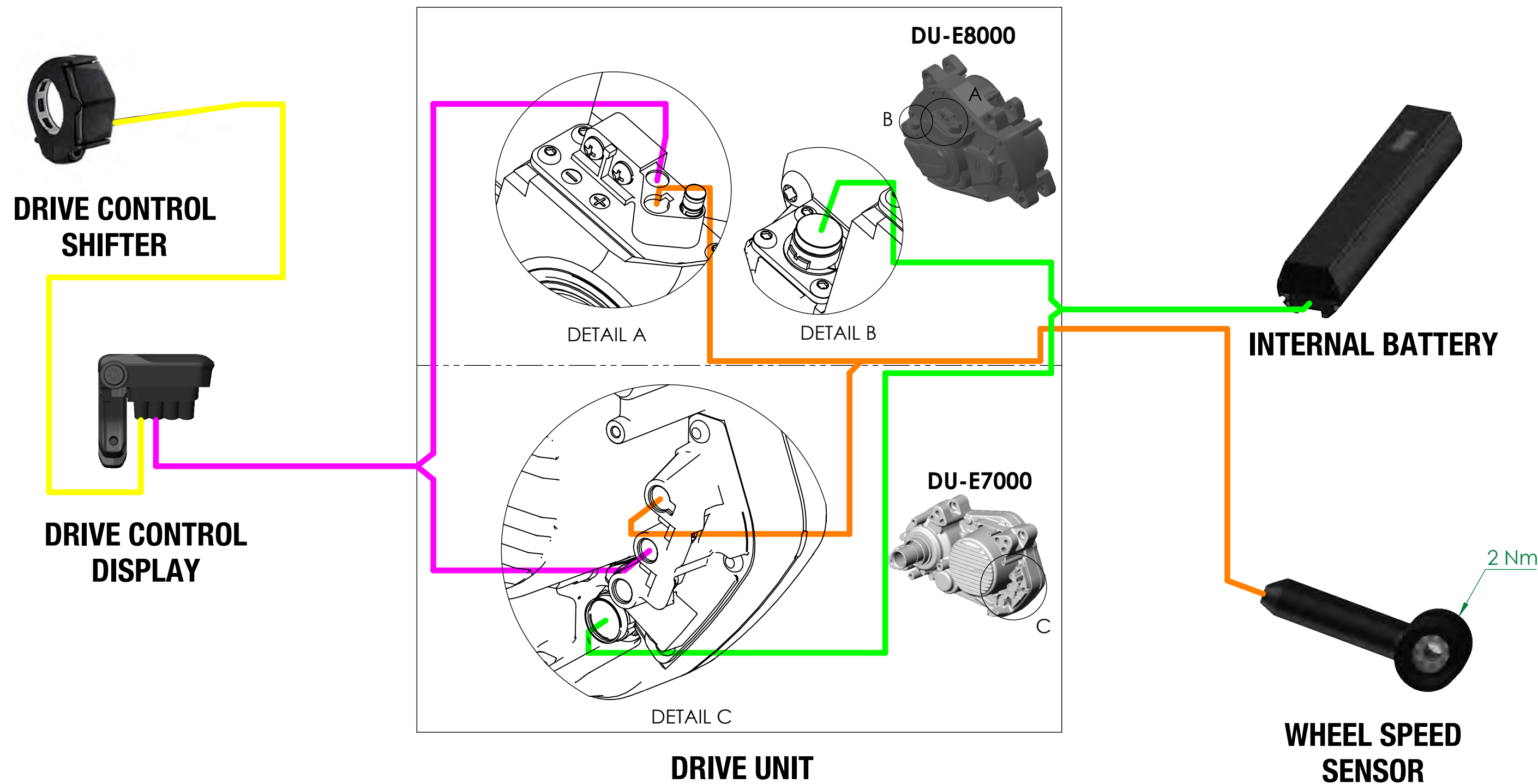


REAR AXLE & HANGER INSTALL





LEGEND	
	Front Brake Hose (FB)
	Rear Brake Hose (RB)
	Rear Derailleur Cable (RD)
	Seatpost Cable (SP)
	Drive Unit Shifter Cable (DuS)
	Control Unit cable (CU)
	Wheel Speed Sensor



Note: The installation screw for the wheel speed sensor on the Left Chainstay is tightened to 2 Nm.