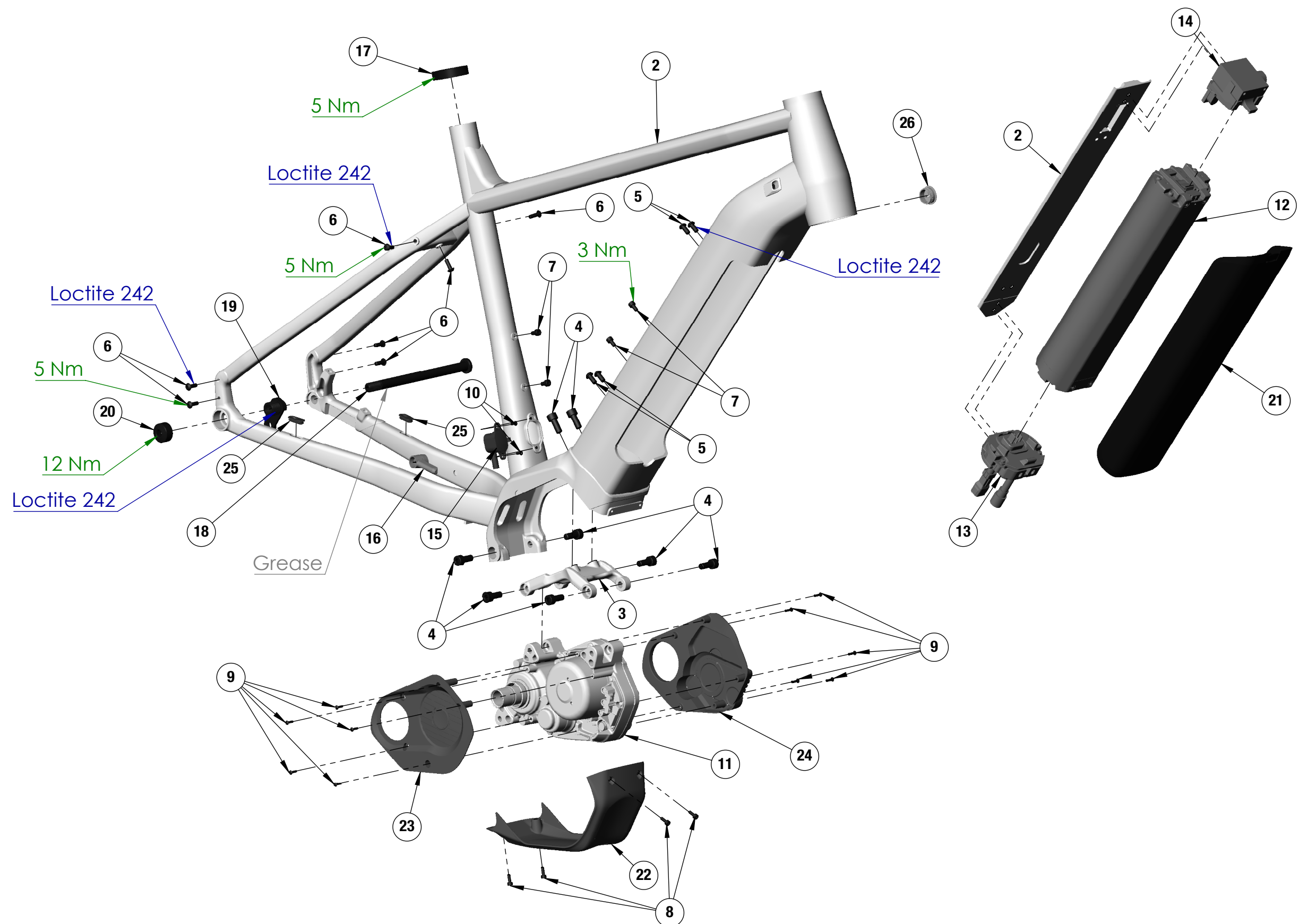




Indie VLT shown. Frame hardware installation is the same for the Indie VLT Step Through.

ADDITIONAL FRAME INFORMATION		
MODEL	INDIE VLT	INDIE VLT STEP THROUGH
AVAILABLE FRAME SIZES	S, M, L, XL	S, M, L
WHEEL SIZE	650B	
S.H.I.S.	ZS44/28.6 ZS56/40	
MAX. FORK LENGTH, OFFSET [mm]	464, 44	
DRIVE UNIT MOUNTING STANDARD	SHIMANO STEPS	
MAX CHAINRING SIZE	38	
OLD [mm]	148	
REAR BRAKE MOUNT [mm]	160, POST	
SEATPOST DIAMETER [mm]	31.6	
RECOMMENDED TIRE SIZE [IN.]	650B X 2.2" - 2.4"	
REAR AXLE TYPE	TA 12mm L172/TL18/M12X1.75	

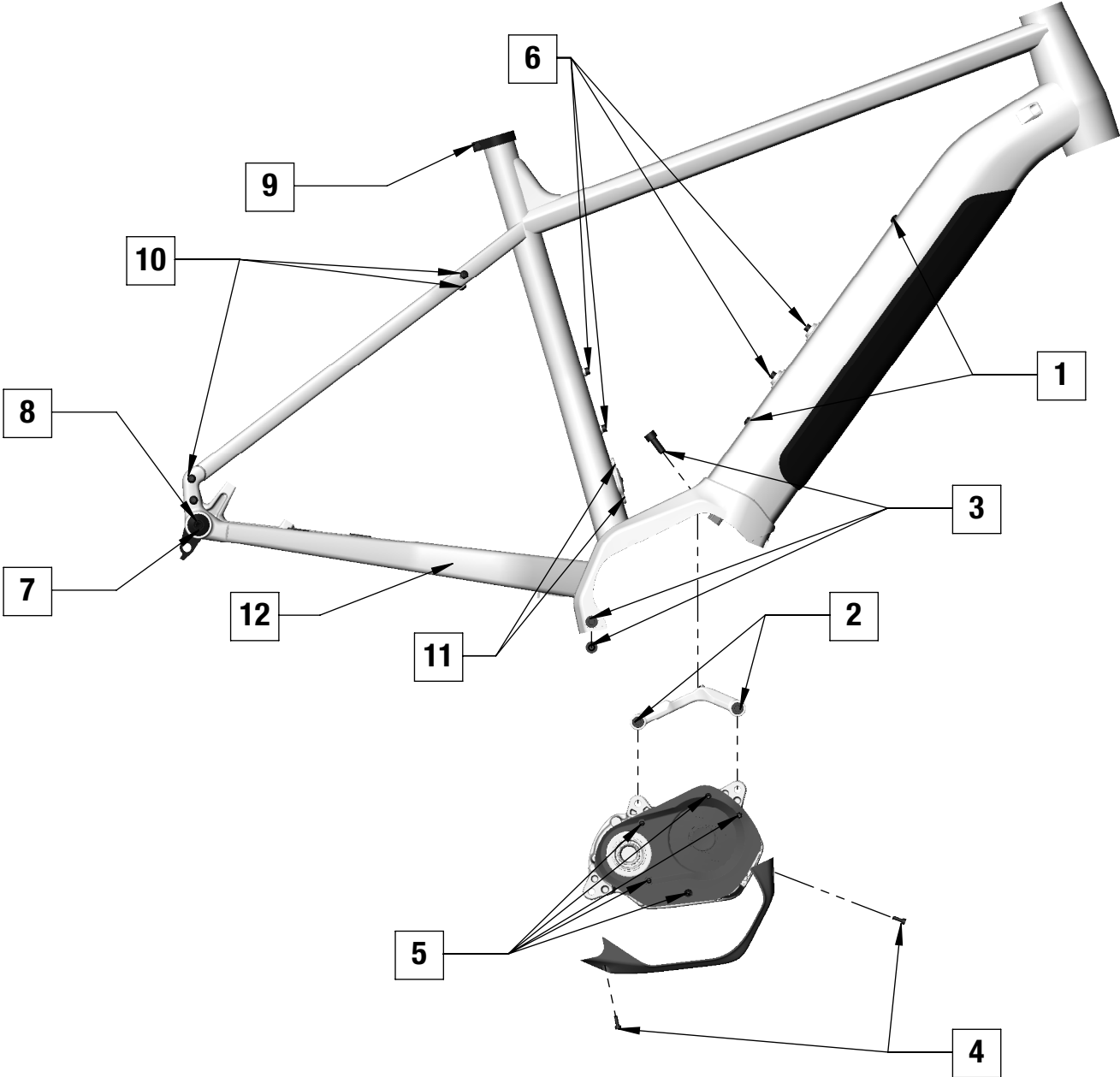


INDIE VLT

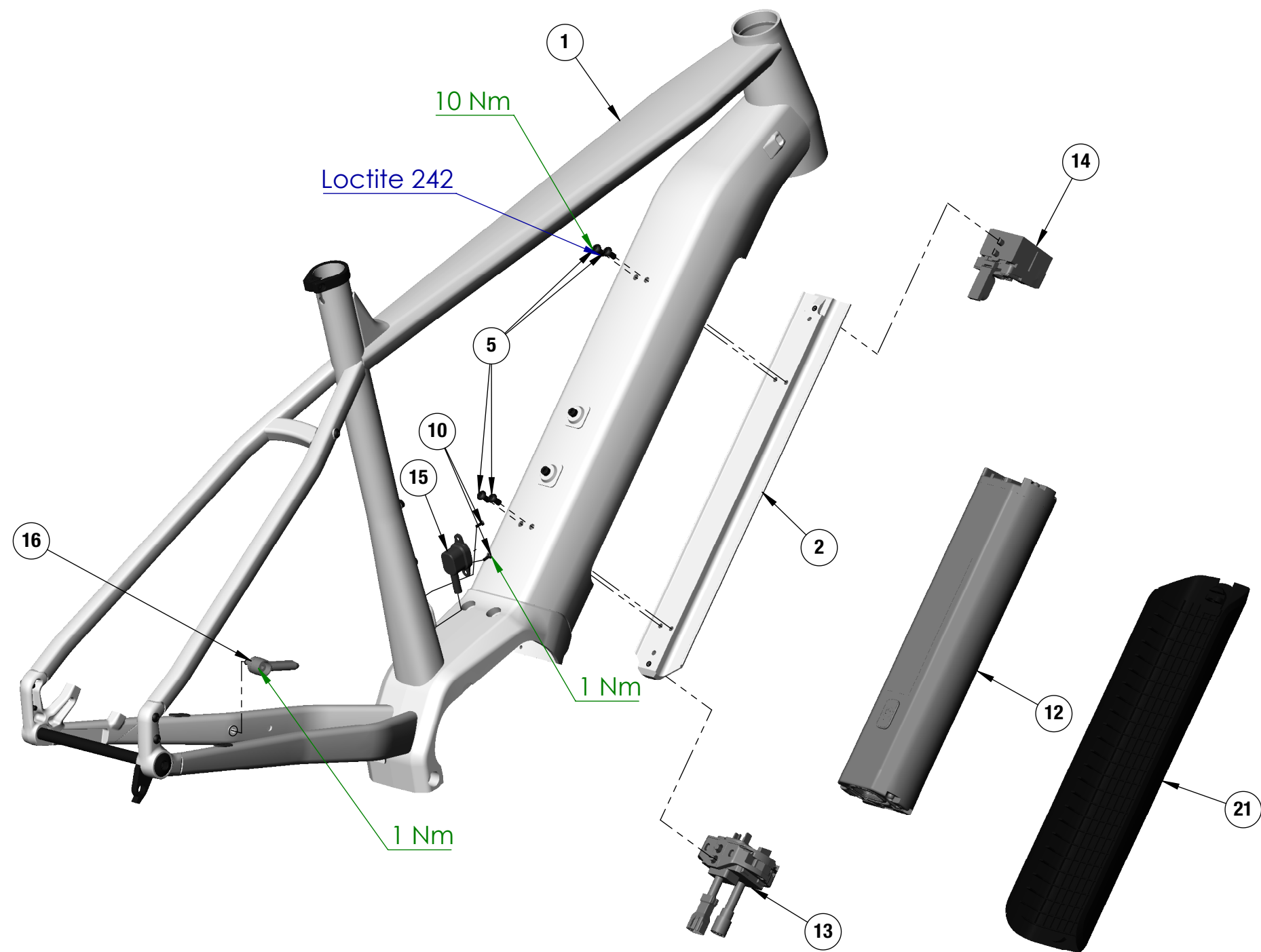


INDIE VLT STEP THROUGH

ITEM NO.	ENGINEERING PART NUMBER	Service Part Number	VENDOR	B	DESCRIPTION	MATERIAL
1			ASTRO	1	FRAME, INDIE VLT, MY21	6061-T6
2	NOR09925	915700-016	ASTRO	1	BATTERY MOUNT, INTERNAL	6061-T6
3	NOR09923	915802-008	ASTRO	1	MOTOR MOUNT	6061-T6
4	ISO 4762	913400-023	SOURCE AS REQUIRED	8	M8x18mm Socket Head Cap Screw	STEEL, BLACK CHROMATE
5	ISO 7380	913400-016	SOURCE AS REQUIRED	4	M6x12mm Button Head Cap Screw	STEEL, BLACK CHROMATE
6	ISO 7380	913400-041	SOURCE AS REQUIRED	7	M5x14mm Button Head Cap Screw	STEEL, BLACK CHROMATE
7	ISO 4762	913400-028	SOURCE AS REQUIRED	4	M5x8mm Socket Head Cap Screw	STEEL, BLACK CHROMATE
8	ISO 4762	913400-047	SOURCE AS REQUIRED	4	M4x10mm Socket Head Cap Screw	STEEL, BLACK CHROMATE
9	ISO 7380	913400-029	SOURCE AS REQUIRED	10	M3x10mm Button Head Cap Screw	STEEL, BLACK CHROMATE
10	ISO 10642	913400-022	SOURCE AS REQUIRED	2	M3x8mm Countersunk Socket Head Cap Screw	STEEL, BLACK CHROMATE
11	DU-E6100	CONTACT SHIMANO	SHIMANO	1	SHIMANO, DU-E6100, DRIVE UNIT	ASSEMBLY
12	BT-E8035	CONTACT SHIMANO	SHIMANO	1	SHIMANO, BT-E8035, BATTERY	ASSEMBLY
13	BM-E8030-A	CONTACT SHIMANO	SHIMANO	1	SHIMANO BM-E8030-A, LOWER BM ASSY	ASSEMBLY
14	BM-E8030-A	CONTACT SHIMANO	SHIMANO	1	SHIMANO BM-E8030-A, UPPER BM ASSY	ASSEMBLY
15	NOR05067	CONTACT SHIMANO	SHIMANO	1	SHIMANO EW-CP100, SATELLITE CHARGING PORT	ASSEMBLY
16	NOR04091	CONTACT SHIMANO	SHIMANO	1	SHIMANO, SM-DUE10, SPEED SENSOR	ASSEMBLY
17	NOR07910	AFTERMARKET	ZOOM	1	34.9mm SEAT POST CLAMP	6061-T6
18	TA-12R	913105-013	NOVATEC	1	AXLE - TA 12mm L172/TL18/M12X1.75	7075-T6
19	NOR02127	913015-001-2	JSD	1	RD HANGER, TWO PIECE, M12X1.75 HANGER	7075-T6
20	NOR02123	913020-002	JSD	1	RD HANGER, TWO PIECE, M18X1 NUT, HEX8	7075-T6
21	NOR08209	915500-015	ASTRO	1	DOWN TUBE BATTERY COVER, CHARGER VLT	PLASTIC
22	NOR06492	915500-016	ASTRO	1	CHARGER AND INDIE VLT, MOTOR GUARD, AFEJ-SP	NYLON
23	NOR08424	915500-018	ASTRO	1	INDIE VLT, COVER DU6100, RH	PLASTIC
24	NOR08423	915500-019	ASTRO	1	INDIE VLT, COVER DU6100, LH	PLASTIC
25	TCBC-CGR-1	914100-043	ASTRO	2	CABLE SLOT GROMMET 18X8MM	EPDM RUBBER
26	AFEL-KCV	914300-004	ASTRO	1	BATTERY MOUNT KEY GROMMET	EPDM RUBBER



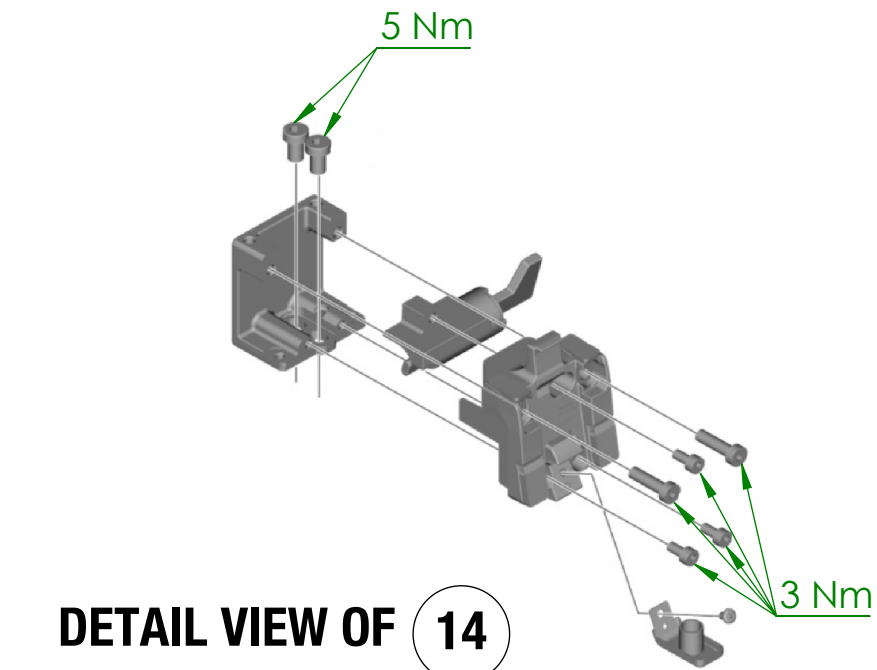
INDEX	CONNECTION NAME	Torque	TOOL
1	BATTERY MOUNT BOLTS	4 Nm	4mm HEX
2	MOTOR MOUNT BOLTS	12 Nm	6mm HEX
3	FRAME MOUNT BOLTS	12 Nm	6mm HEX
4	MOTOR LOWER COVER BOLTS	1 Nm	3mm HEX
5	MOTOR SIDE COVER BOLTS	1 Nm	2mm HEX OR #2 PHILLIPS SCREWDRIVER
6	BOTTLE CAGE BOLTS	3 Nm	4mm HEX
7	HANGER	12 Nm	8mm HEX
8	AXLE	10 Nm	5mm OR 6mm HEX AS PER SPEC.
9	SEAT CLAMP	5 Nm	4mm HEX
10	RACK & FENDER MOUNT BOLTS	5 Nm	4mm HEX
11	CHARGE PORT SCREWS	1 Nm	2mm HEX
12	SPEED SENSOR BOLT	1 Nm	3mm HEX



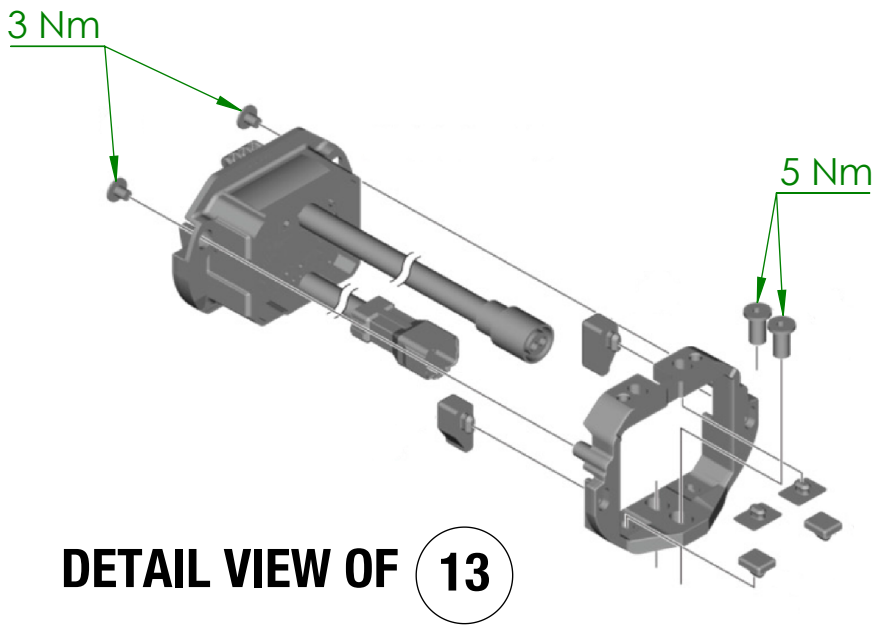
Installation Sequence:

1. Install battery mounts (13) & (14) to internal battery mount (2).
2. Secure internal battery mount (2) to inside of frame using M6x12mm (7).
3. Clip in battery (12) to battery mount (2).
4. Attach downtube battery cover (21) to frame (1).

DETAIL VIEW OF (14)

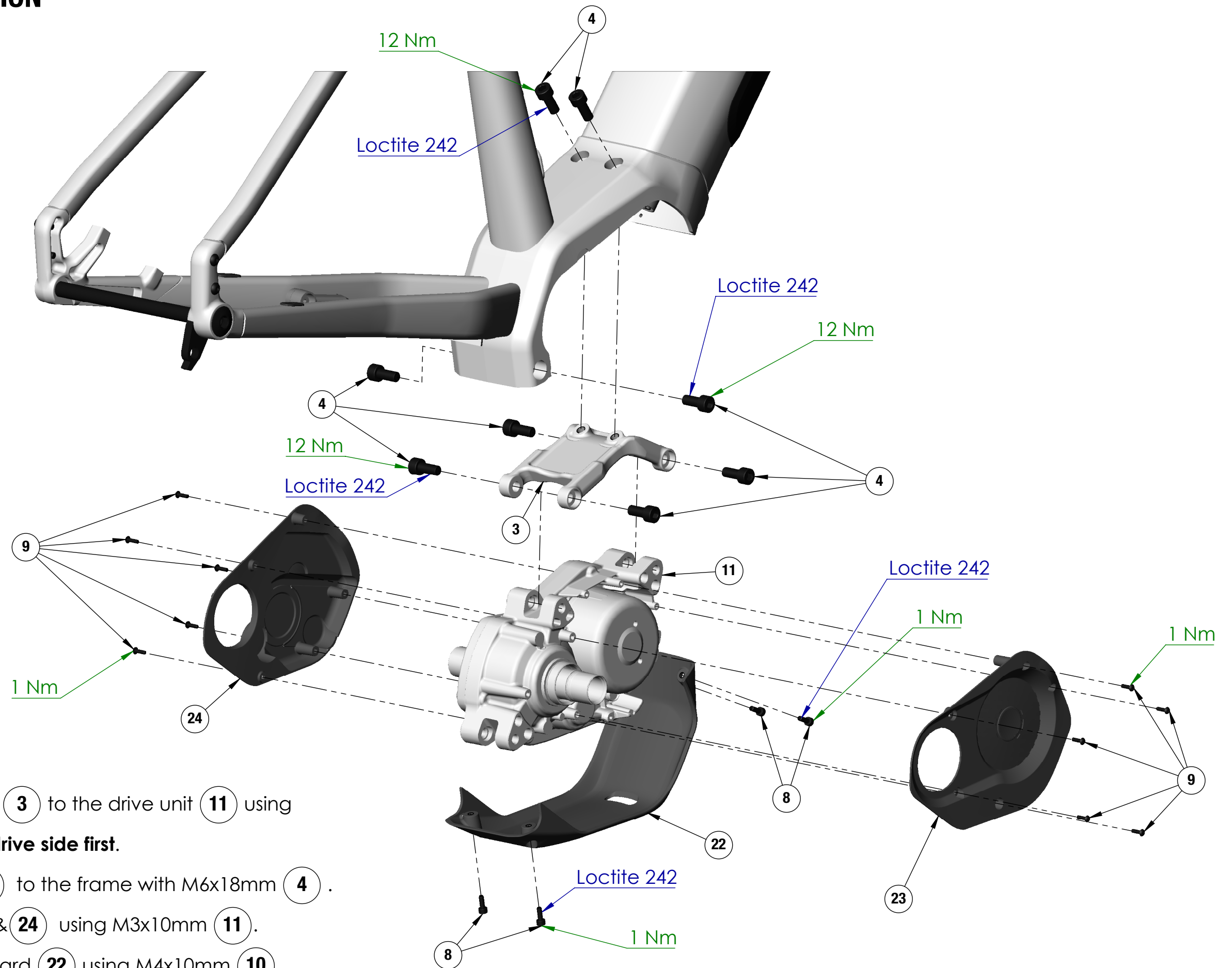


DETAIL VIEW OF (13)

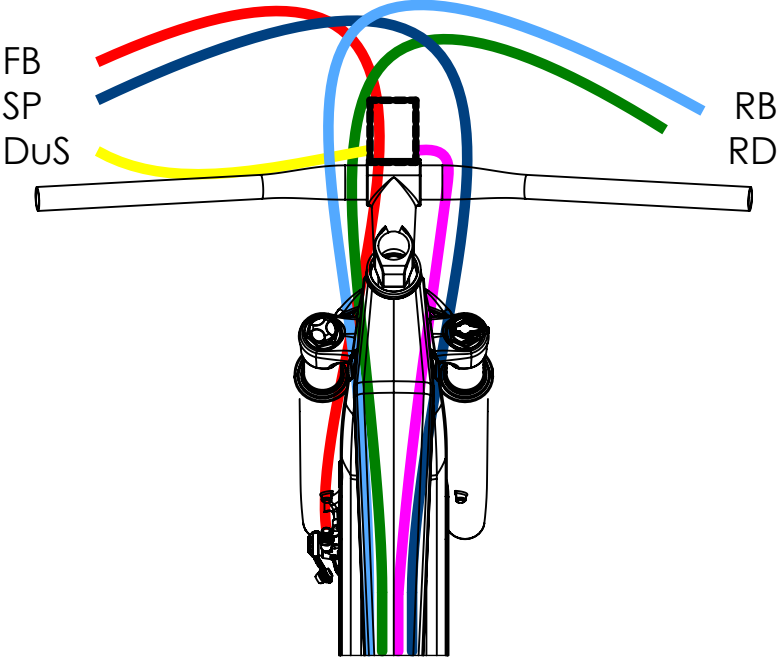


Detail views of (13) & (14) are derived from the Shimano dealer manual.

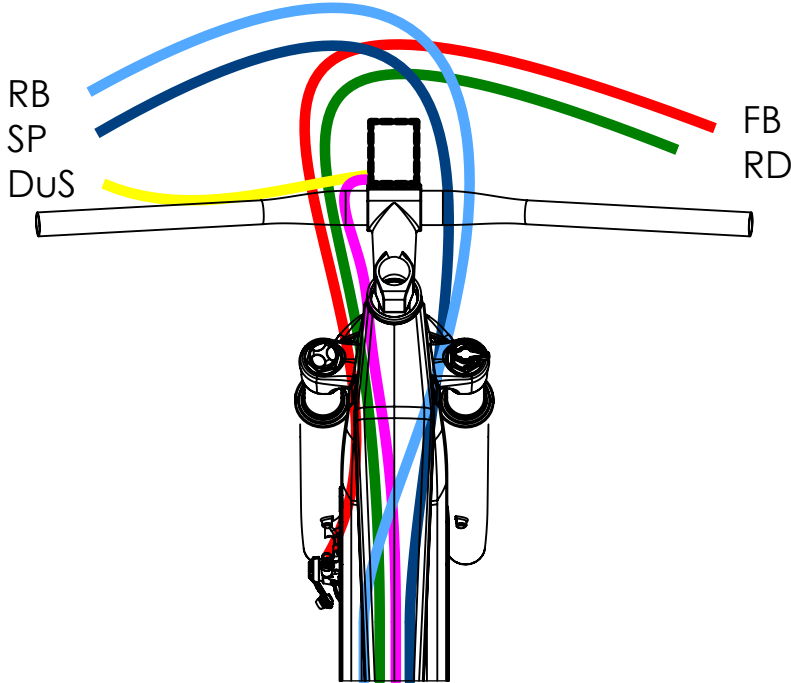
DRIVE UNIT INSTALLATION

Installation Sequence:

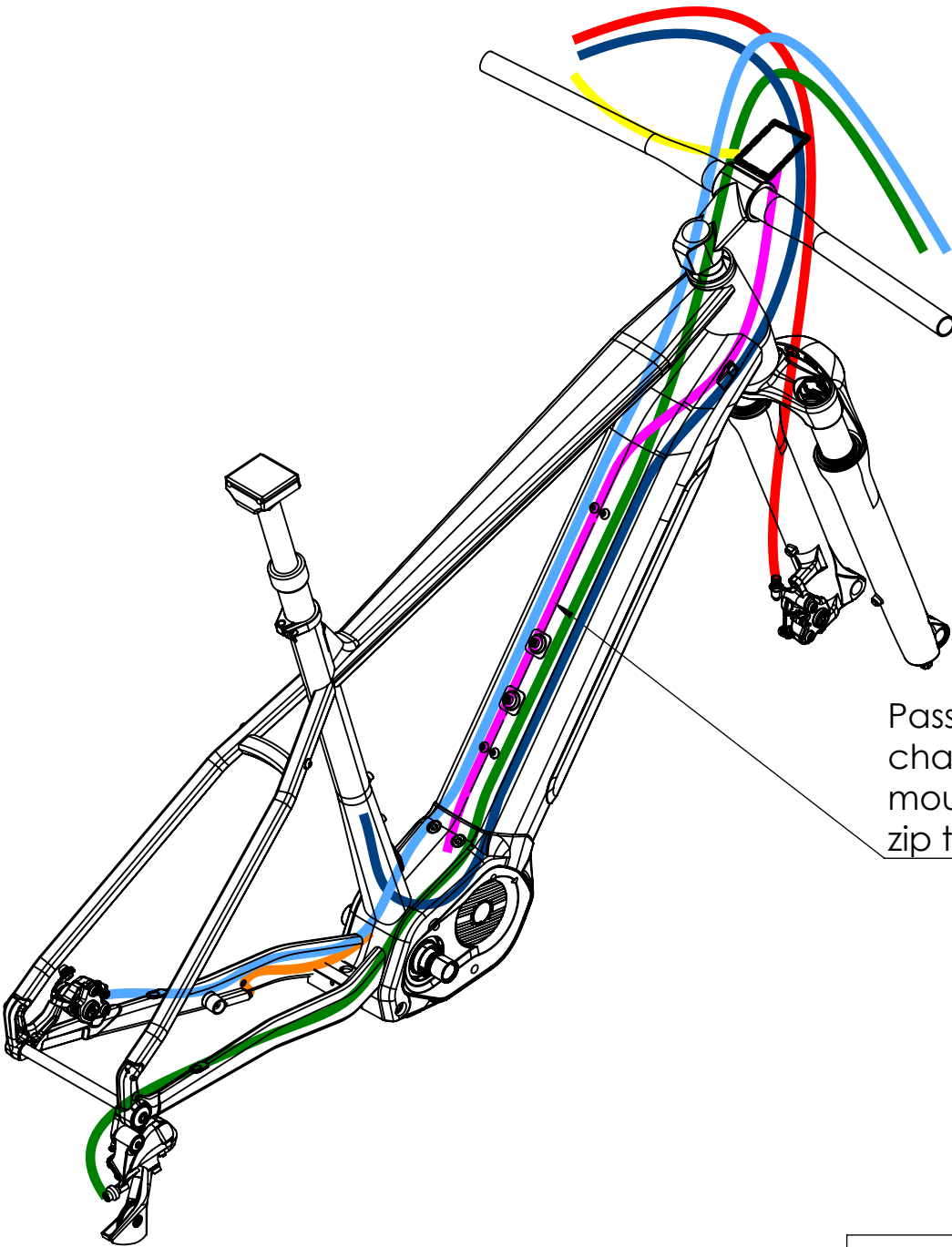
1. Attach the motor mount (3) to the drive unit (11) using M6x18mm (6). **Torque drive side first.**
2. Secure the drive unit (11) to the frame with M6x18mm (4).
3. Attach side covers (23) & (24) using M3x10mm (11).
4. Attach bottom motor guard (22) using M4x10mm (10).



STANDARD LAYOUT



SELECT INTERNATIONAL LAYOUT



Pass cables through the channels between the battery mount and the frame. Do not zip tie cables together.

Legend	
	Front Brake Hose (FB)
	Rear Brake Hose (RB)
	Rear Derailleur Cable (RD)
	Seatpost Cable (SP)
	Drive Unit Selector Cable (DuS)
	Control Unit Cable (CU)
	Speed Sensor Cable (SS)