



MANUALS & DOCUMENTS

CRUSHER

CRUSHER

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MANUALES Y DOCUMENTOS





INSTRUCCIONES GENERALES Y DE SEGURIDAD

En esta guía técnica pueden aparecer los 3 iconos siguientes. Cada uno de ellos indica que deben tomarse las siguientes precauciones:

ADVERTENCIA:

No seguir las indicaciones o usar la bicicleta de forma inadecuada puede ocasionar graves lesiones o incluso la muerte. Estas tareas entrañan dificultad técnica y, si no se realizan de forma adecuada, podrían causar daños a tu bicicleta o dar lugar a la anulación de la garantía.

CUIDADO:

No seguir las indicaciones o usar la bicicleta de forma inadecuada puede ocasionar lesiones leves. Estas tareas entrañan dificultad técnica y, si no se realizan de forma adecuada, podrían causar daños a tu bicicleta o dar lugar a la anulación de la garantía.

INFORMACIÓN:

Información imprescindible para realizar esta tarea correctamente y, así, evitar que se cause cualquier daño a la bicicleta o se pierda la garantía, pero que no supone ningún riesgo para el ciclista.

OTRAS CONSIDERACIONES

- El uso de piezas de repuesto no originales puede ocasionar daños, fallos de funcionamiento y accidentes que pueden tener graves consecuencias.
- Para realizar algunos de los pasos descritos en este manual se requieren habilidades superiores a las del usuario medio de bicicleta. En caso de no poder seguir alguno de estos pasos, lleva tu bicicleta a un servicio técnico autorizado Mondraker para el mantenimiento y sustitución de sus componentes. La instalación incorrecta de piezas de repuesto puede ocasionar fallos de funcionamiento, accidentes, lesiones y la anulación de la garantía.

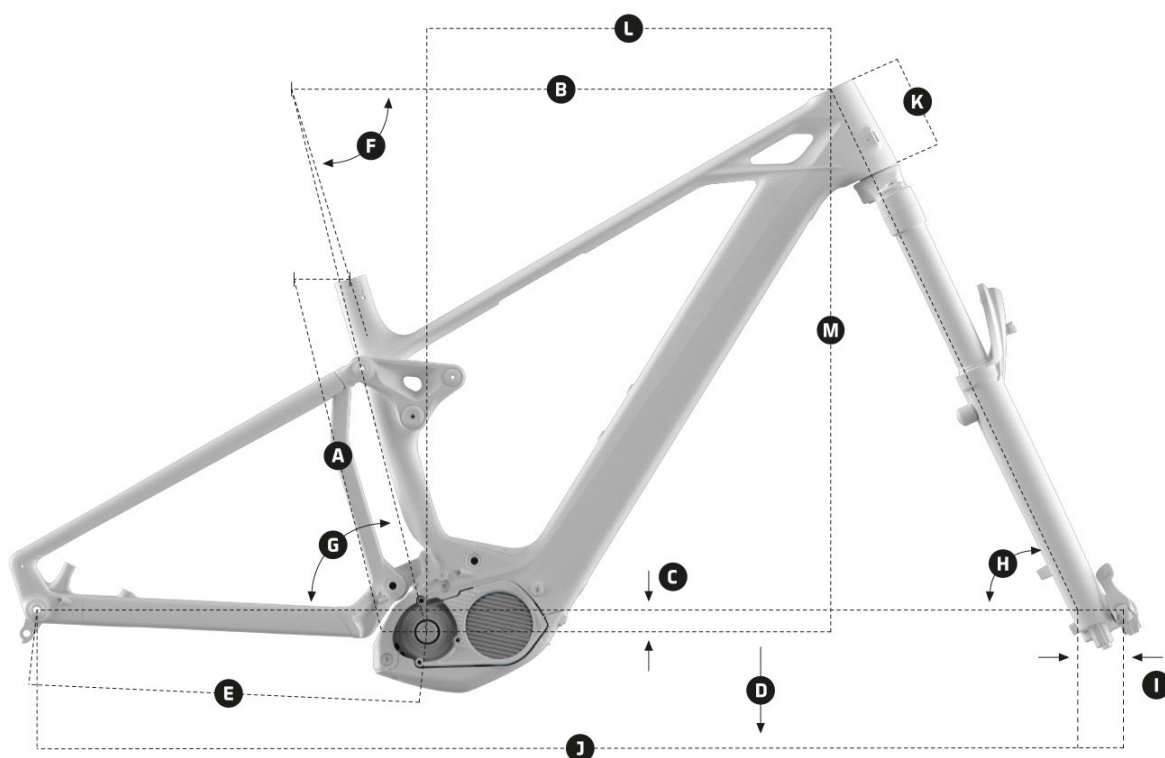
-  Para más información sobre la instalación de los componentes eléctricos, el motor, la pantalla y el mando a distancia, consulte los manuales de Shimano. <https://si.shimano.com/#/>

LIMPIEZA Y CUIDADO

- Una vez desmontadas las piezas, se recomienda limpiar, engrasar y poner sellador de roscas (en caso necesario) en los componentes que se vayan a reutilizar.



1. GEOMETRÍA



TALLA	S	M	L	XL
A Longitud tubo sillín	380mm	420mm	450mm	490mm
B Longitud tubo superior	605mm	625mm	650mm	670mm
C Caída eje pedalier	-25mm	-25mm	-25mm	-25mm
D Altura eje pedalier	350mm	350mm	350mm	350mm
E Longitud vainas	455mm	455mm	455mm	455mm
F Ángulo tubo sillín real	73.5°	73.5°	73.5°	73.5°
G Ángulo tubo sillín efectivo	76.0°	76.0°	76.0°	76.0°
H Ángulo dirección	65.0°	65.0°	65.0°	65.0°
I Offset de la horquilla	44mm	44mm	44mm	44mm
J Distancia entre ejes	1236mm	1256mm	1285mm	1305mm
K Longitud pipa	110mm	110mm	130mm	140mm
L Reach	450mm	470mm	490mm	510mm
M Stack	632mm	632mm	645mm	645mm



2. ESPECIFICACIONES TÉCNICAS DEL CUADRO

FRAME SIZES	S / M / L / XL
FRONT WHEEL SIZE	29"
FRONT HUB	110mm x 15mm
REAR WHEEL SIZE	29"
REAR HUB	148mm x 12mm (BOOST)
REAR AXLE	L180mm M12 PITCH 1.75, HEAD DIAMETER 19mm
TOTAL WATER BOTTLE / RANGE EXTENDERS MOUNTS	1 INTEGRATED FIDLOCK POCKET + 1 WATER BOTTLE CAGE MOUNT
MOTOR	Shimano PASOS EP801
BOTTOM BRACKET	Shimano
BATTERY SIZE	720Wh
RANGE EXTENDER COMPATIBLE	YES, 500ml WATER BOTTLE SIZE
REAR TRAVEL	150mm
REAR SHOCK	205 x 65mm TRUNNION, 25 x 10mm BOTTOM BUSHINGS
FRONT TRAVEL	160mm, 170mm MAX
SEATPOST DIAMETER	31.6mm (37mm seatpost clamp)
CHAINLINE	55mm
HEADSET	UPPER: IS52 1 1/8", LOWER ZS56 BLOCKLOCK 1.5"
MAX CHAINRING	34T
REAR BRAKE	POST MOUNT, DIRECT 200mm
MAX REAR TIRE WIDTH	66mm, 29 x 2.6"

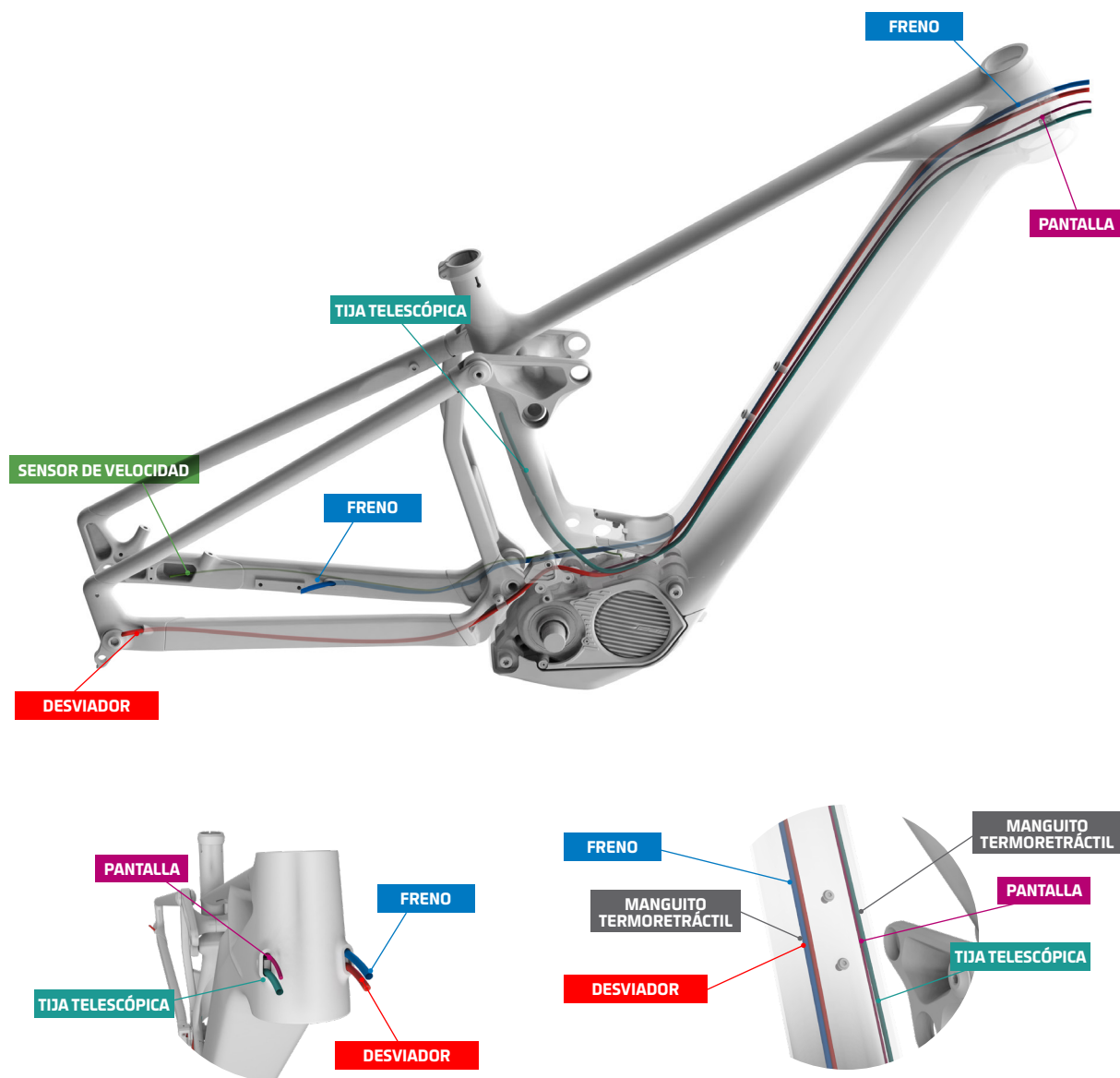
3. PROFUNDIDAD DE INSERCIÓN DE TIJA



TALLA DEL CUADRO	MIN. (mm)	MAX. (mm)
XL	100	285
L	100	245
M	100	215
S	100	175

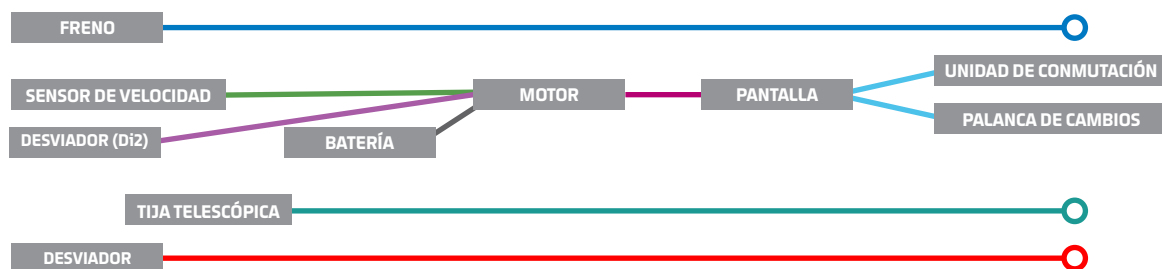


4. ENRUTAMIENTO INTERNO



Los cables pasan por un pasacables interno.

5. DIAGRAMA DE CONEXIÓN DE CABLES





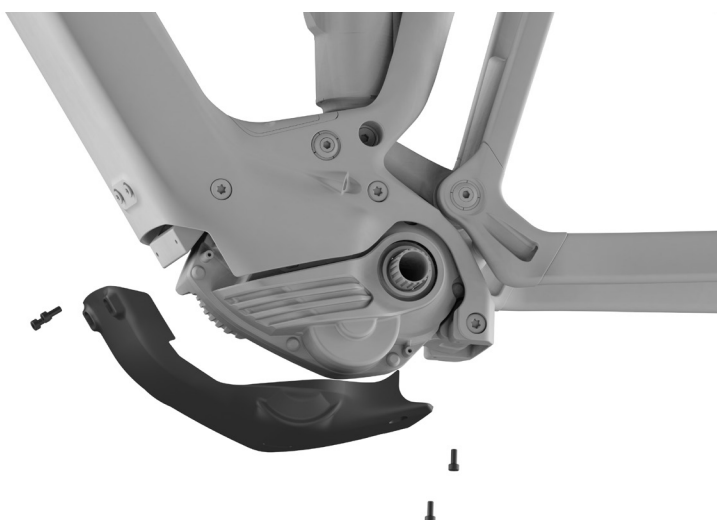
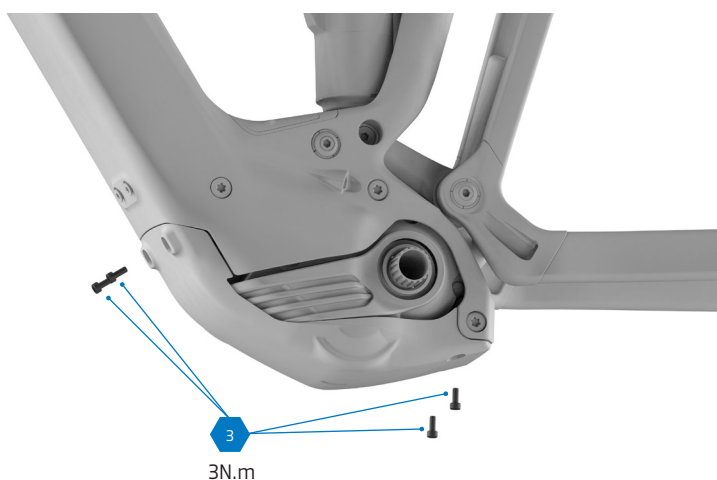
6. UNIDAD DE ACCIONAMIENTO

6.1. RETIRAR LA TAPA



PASO 1

Desatornillar 4 tornillos y retirar la tapa.

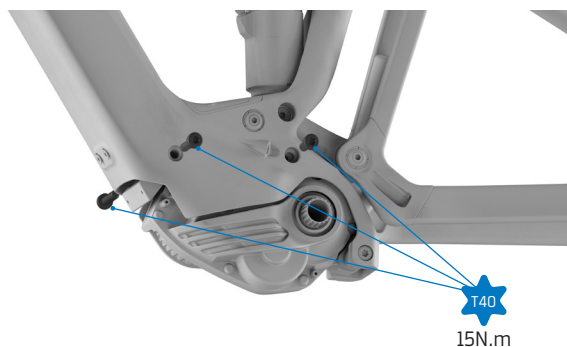


PASO 2

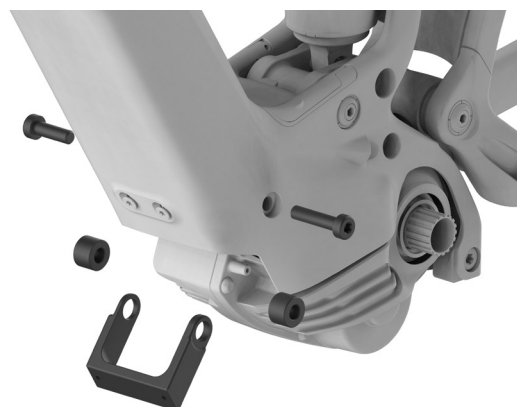
Retirar la tapa.



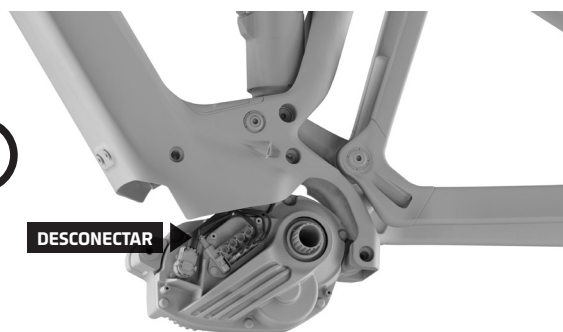
6. 2. RETIRAR LA UNIDAD DE ACCIONAMIENTO



PASO 1 Desatornillar 4 tornillos y retirar el soporte del motor.



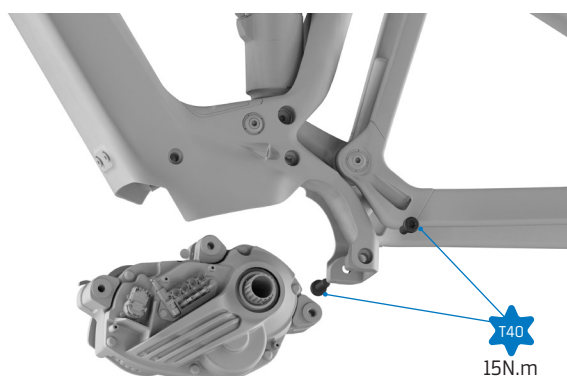
PASO 2 Girar el motor ligeramente y desconectar las conexiones.



Usa siempre la herramienta Shimano TL-EW300 para conectar y desconectar los cables en sus conexiones. Los cables son extremadamente frágiles y si no se utiliza la herramienta correcta se romperán. Para más información puede consultar los manuales de Shimano. <https://si.shimano.com/#/>



Asegúrate de colocar conectores de seguridad en los puertos E-TUBE que no se estén utilizando.

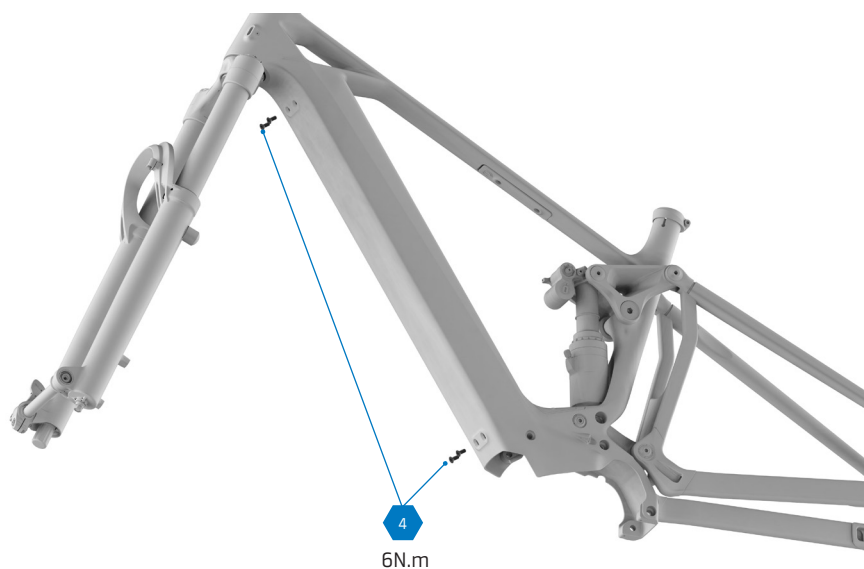


PASO 3 Desatornillar 2 tornillos y retirar el motor.

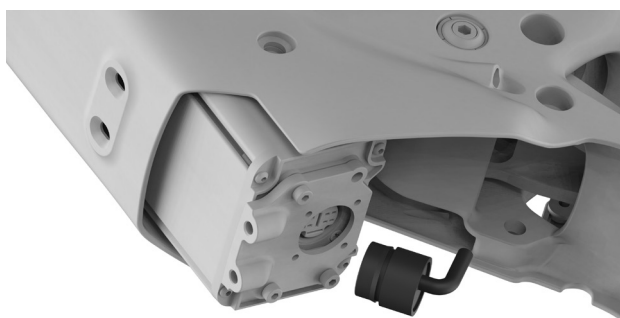


7. DESMONTAJE DE LA BATERÍA

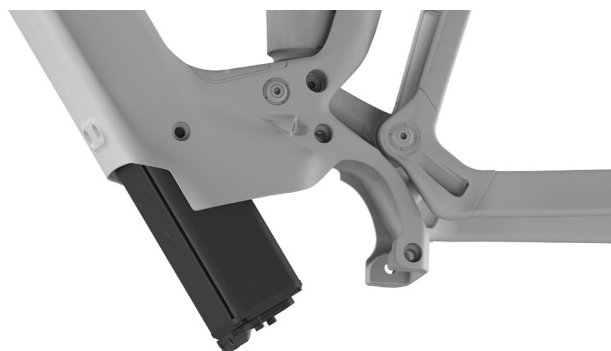
Seguir los pasos 6.1 y 6.2



PASO 1 Desatornillar 4 tornillo.



PASO 2 Desconectar la conexión

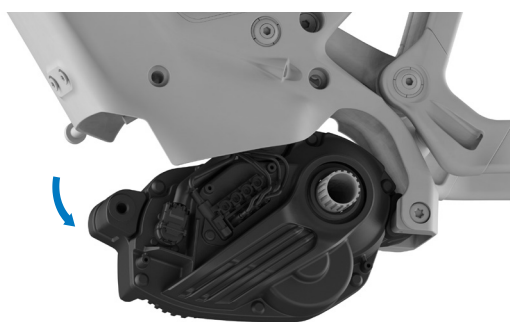


PASO 3 Extraer la batería.



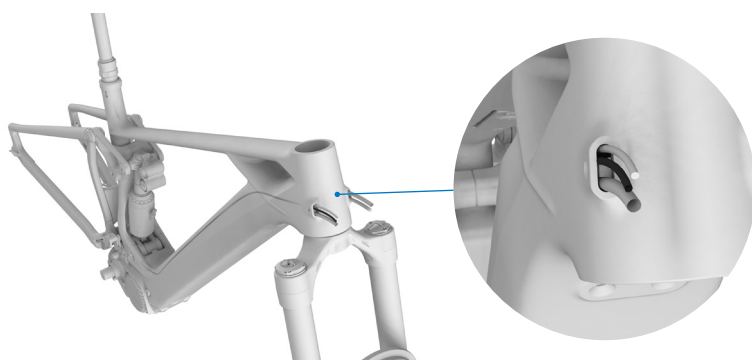
8. CONECTAR UNA LUZ (OPCIONAL)

-  Esta bicicleta viene con puerto de conexión opcional para iluminación delantera y trasera.
-  Usa siempre la herramienta Shimano TL-EW300 para conectar y desconectar los cables en sus conexiones. Los cables son extremadamente frágiles y si no se utiliza la herramienta correcta se romperán.
-  Para más información sobre las conexiones puedes consultar los manuales de Shimano.
<https://si.shimano.com/#/>



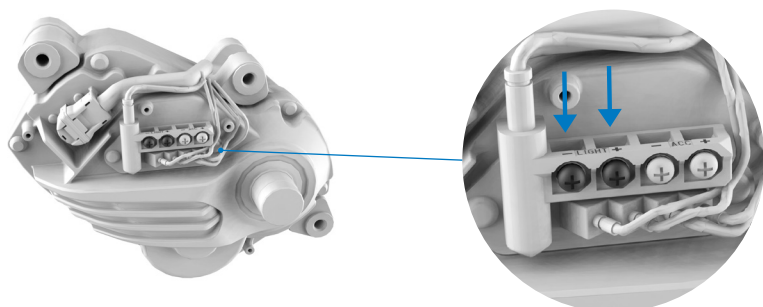
PASO 0

Sigue los pasos 6.1 y 6.2 para que los conectores de la unidad de accionamiento queden accesibles.



PASO 1

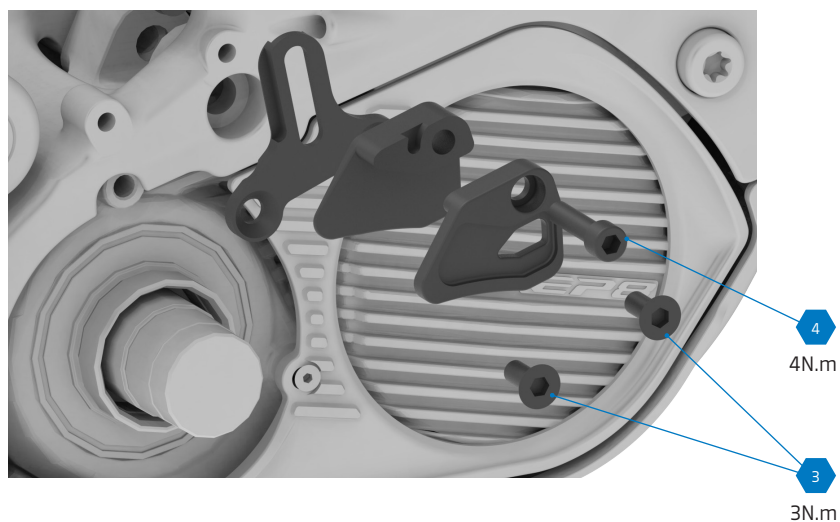
Pasa el cable de la luz por el orificio de entrada superior derecho.



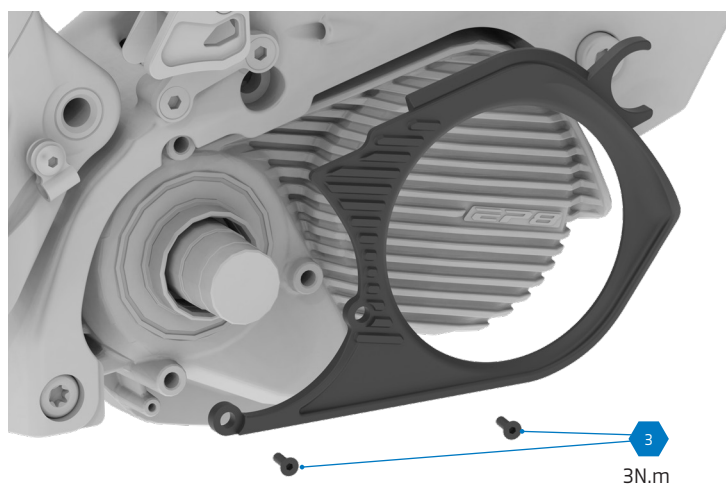
PASO 2

Conecta los cables conectados a la luz delantera a la unidad de accionamiento siguiendo las instrucciones de Shimano.
<https://si.shimano.com/#/>

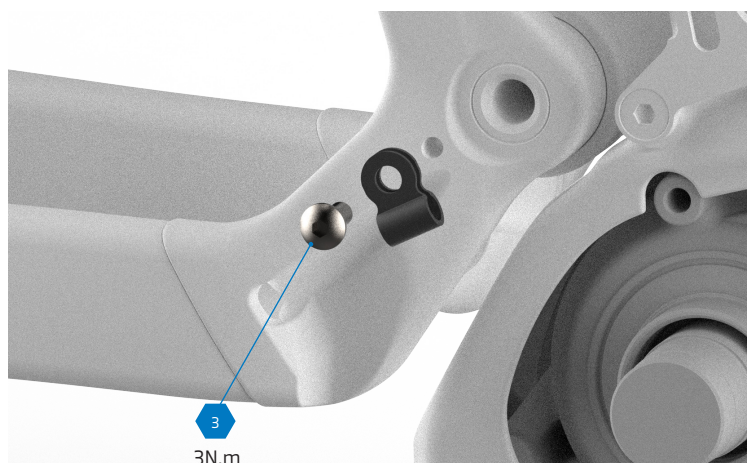
9. GUÍA DE CADENA



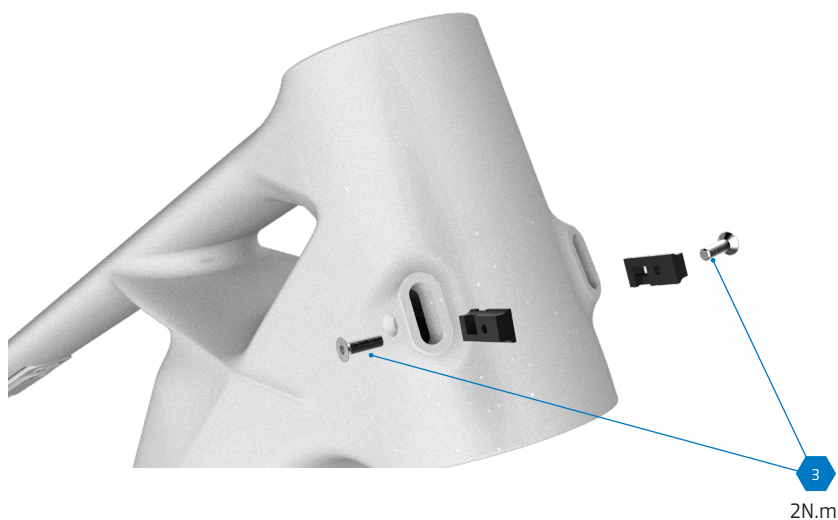
10. TAPA DEL MOTOR DEL LATERAL DERECHO



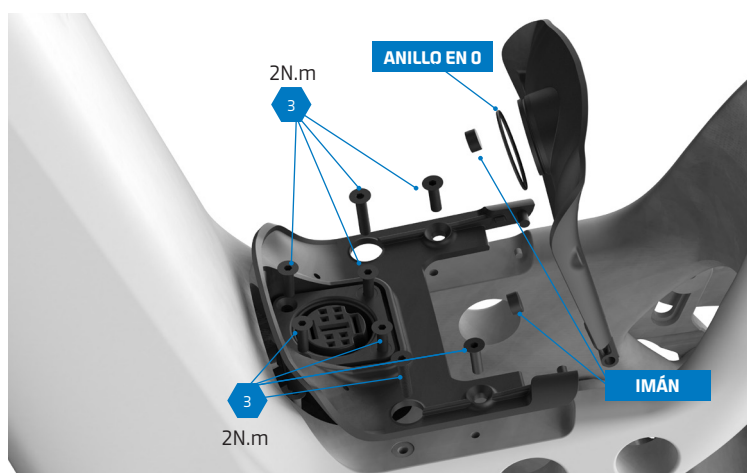
11. GUÍA DE CABLEADO



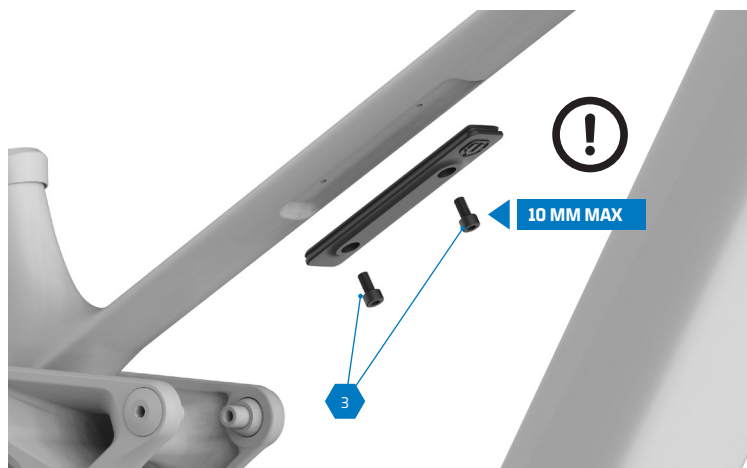
12. ENTRADA DE ENRUTAMIENTO INTERNO



13. TAPA DEL PUERTO DE CARGA

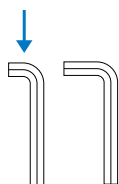


14. TUERCA BASE FIDLOCK





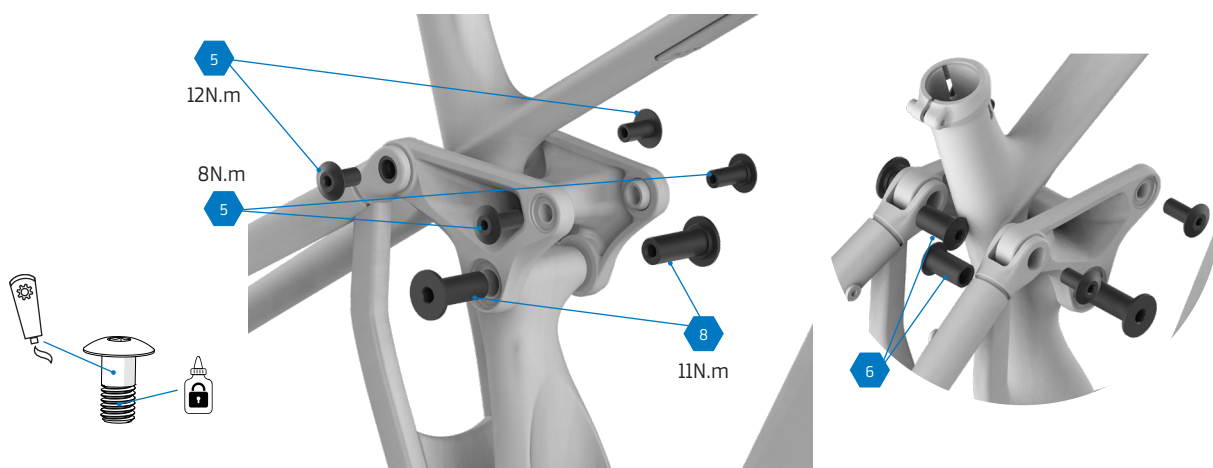
15. GUÍA DE INSTALACIÓN DE LA BIELETA SUPERIOR



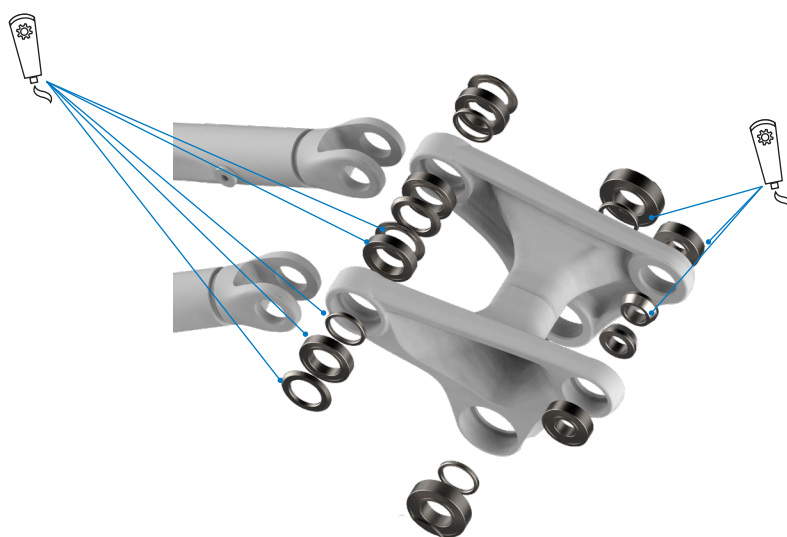
Para acceder a los tornillos del triángulo trasero, es necesario desmontar el amortiguador o utilizar un juego de llaves hexagonales cortas.



Para desmontar el amortiguador trasero, primero libera toda la presión de aire.



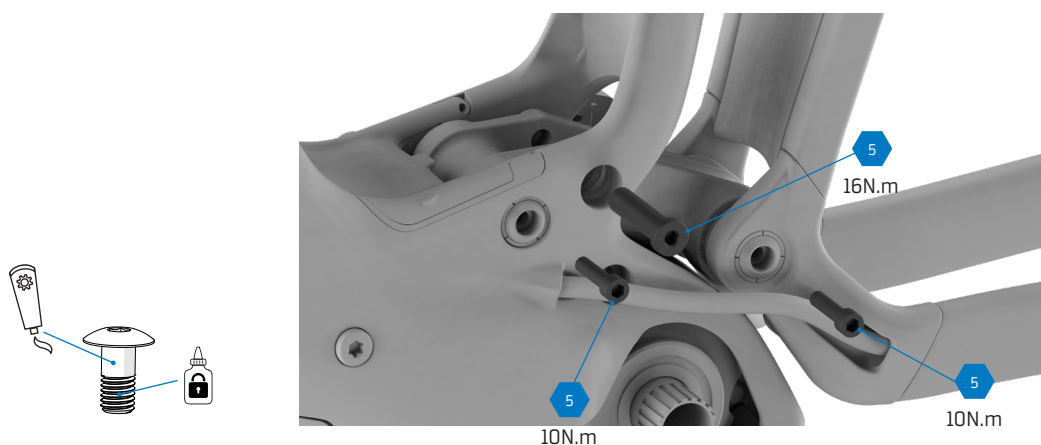
Para los tornillos principales aplica grasa al eje y Loctite 243 o similar a las roscas.



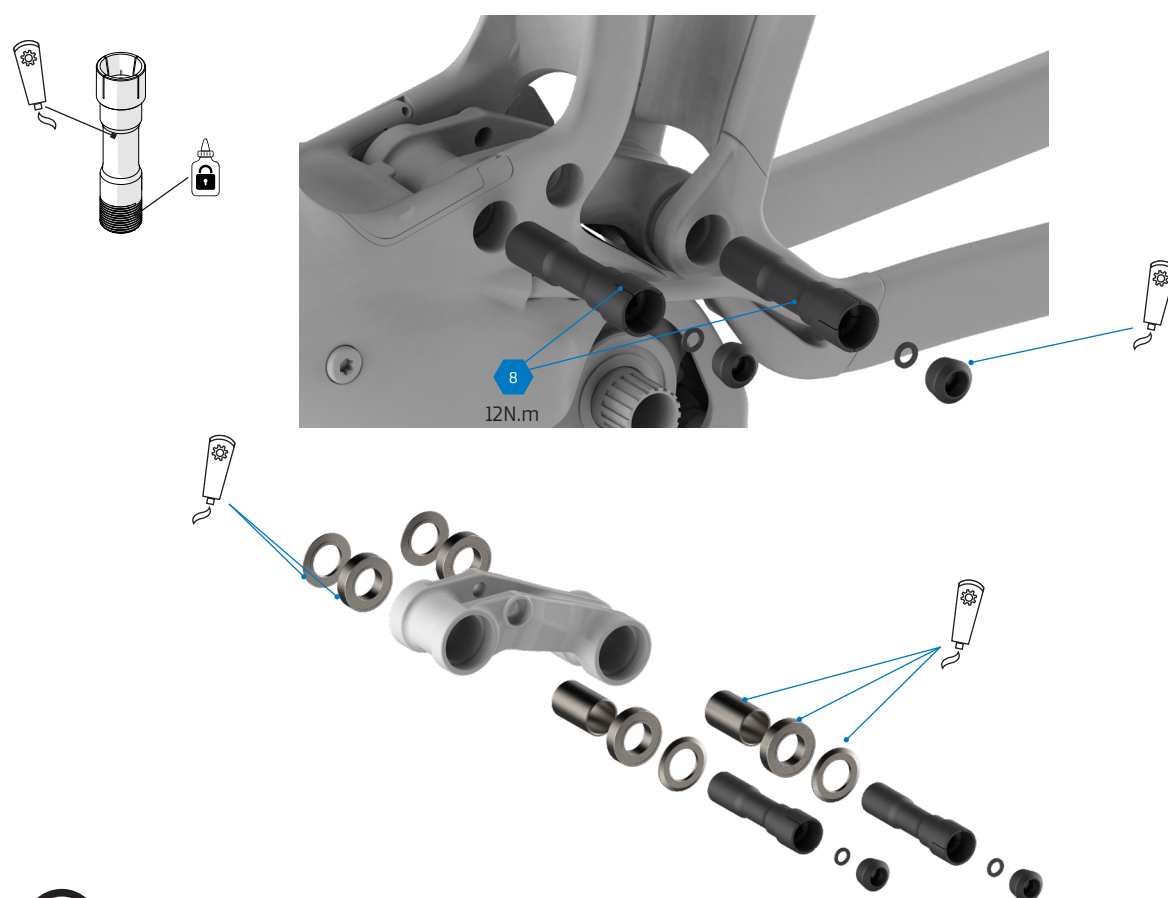
Aplica grasa a todos los rodamientos y espaciadores.



16. GUÍA DE INSTALACIÓN DE LA BIELETA INFERIOR



❗ Para los tornillos principales aplica grasa al eje y Loctite 243 o similar a las roscas.



❗ Aplica grasa a todos los rodamientos y espaciadores.

17. UNIDAD DE CONMUTACIÓN

El mando a distancia SW-EN600-L de Shimano tiene las siguientes funciones.

Botón de encendido



Botón de luz

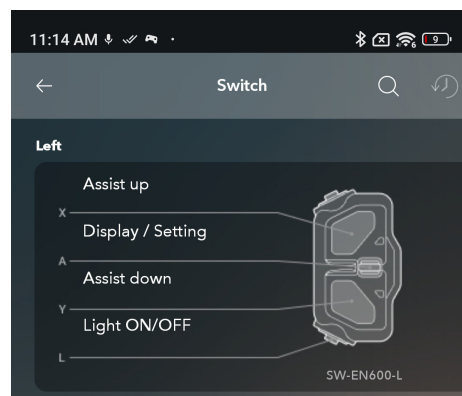
Botón asistencia en ascenso

Nivel de batería LED

Desplazamiento de pantalla

LED modo de asistencia

Botón asistencia en descenso
Modo asistencia a la marcha (pulsación larga)



18. AJUSTE FINO DEL DESVIADOR TRASERO

1. Enciende la bicicleta.
2. Coloca el desviador trasero en la posición del 5º piñón.
3. Accede al menú Ajuste pulsando prolongadamente el botón de desplazamiento de la pantalla.
4. Navega hasta Ajuste > Ajustar
5. Mientras gira el plato delantero, utiliza las palancas de cambio para microajustar el desviador.
6. Confirma los ajustes y sal del menú Ajuste.



19. CONECTIVIDAD

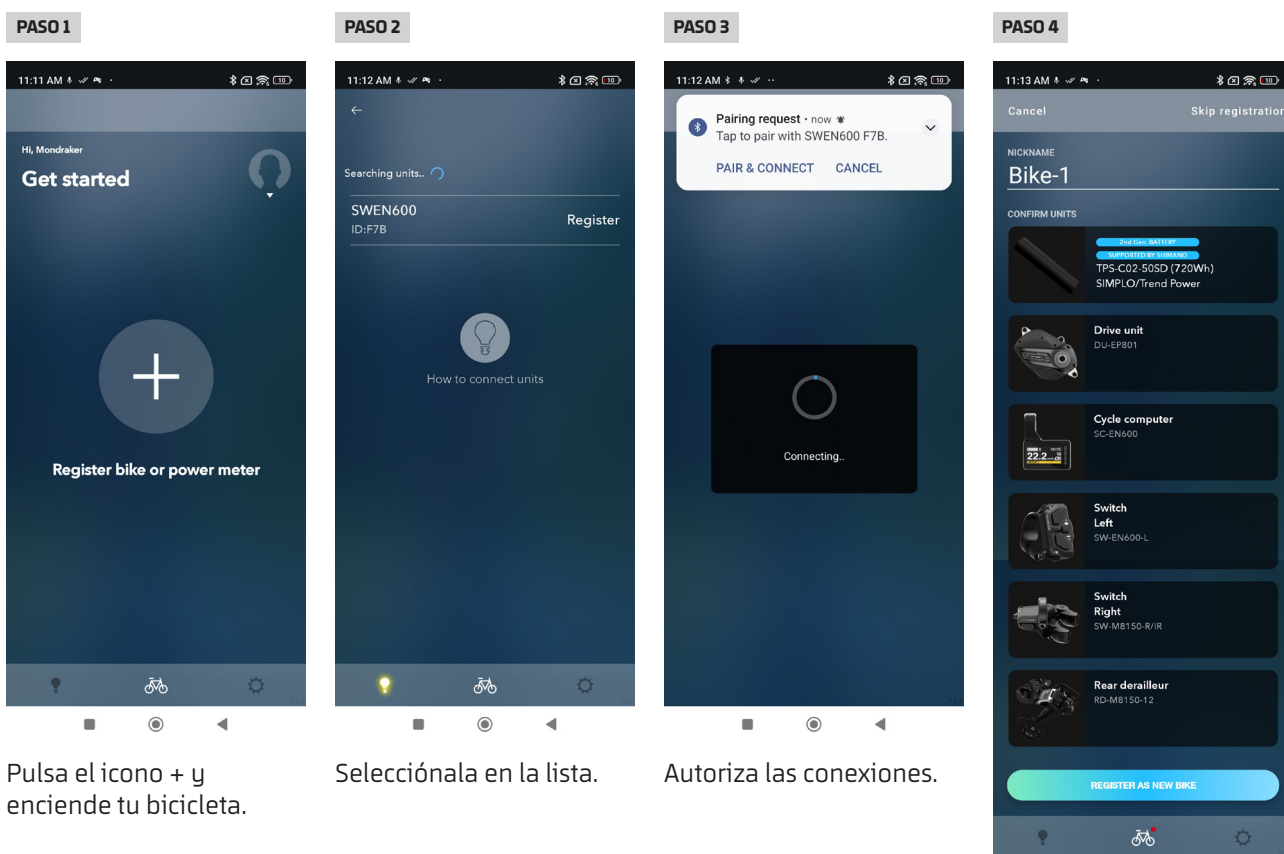
19.1. EMPAREJAR EL SMARTPHONE



Antes de la primera salida se recomienda cargar la bicicleta completamente.

Con la aplicación para smartphone E-TUBE PROJECT Cyclist, podrás personalizar los ajustes de tu Mondraker Crusher, así como realizar tareas de mantenimiento.

Encontrarás un manual de usuario más detallado en la página web de Shimano. Busca E-TUBE PROJECT Cyclist para descargar la última versión.



Pulsa el icono + y enciende tu bicicleta.

Selecciónala en la lista.

Autoriza las conexiones.

¡Tu bicicleta está conectada!



19.2. EMPAREJAR UNA UNIDAD GPS

1. Para conectar tu bici a un ciclocomputador con GPS, primero debes encender la bicicleta.
2. Enciende tu unidad GPS y selecciona en el menú "Añadir sensores" > "Buscar todos".
3. Selecciona el sensor "Shimano STEPS".
4. ¡Tu ciclocomputador ahora está vinculado a tu Mondraker Crusher!

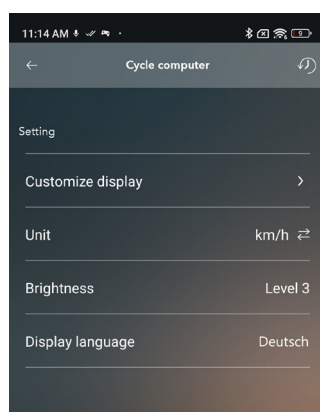
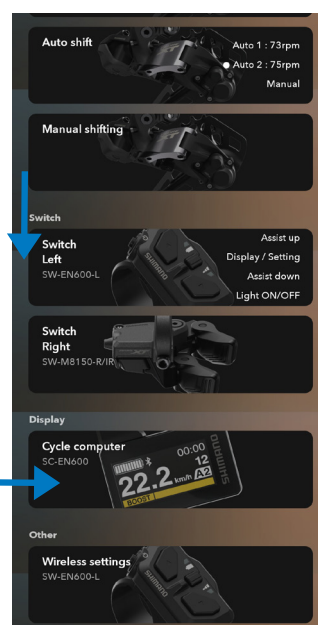




20. AJUSTES

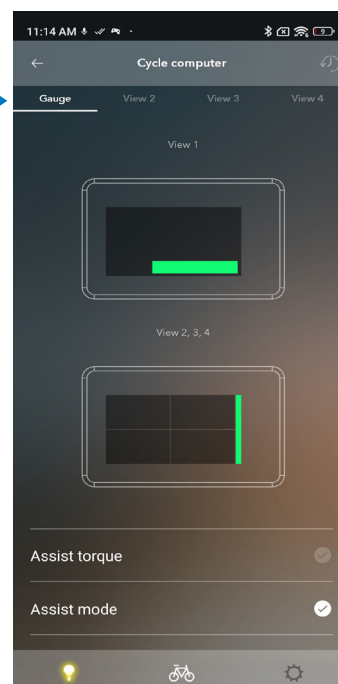
20.1. CAMBIAR IDIOMA, INFORMACIÓN Y UNIDADES DE LA PANTALLA

1. Enciende tu bicicleta y conéctala a tu smartphone.
2. Pulsa sobre tu bicicleta, que has guardado previamente.
3. Selecciona el menú PERSONALIZAR
4. Desplázate hacia abajo y selecciona Ciclocomputador
5. Selecciona las unidades, el brillo de la pantalla y el idioma que prefieras.



PASO 5

Puedes personalizar los datos de pantalla de cada una de las 4 páginas.



20.2. CONFIGURAR LOS MODOS Y PERFILES DE ASISTENCIA.

Shimano tiene la opción de personalizar la potencia de entrada de la unidad de accionamiento permitiendo al usuario crear diferentes modos de asistencia y 2 perfiles.

1. Selecciona el menú PERSONALIZAR
2. Pulsa en Asistencia
3. Configura cada Perfil
4. Aplica para salvar los cambios y enviarlos a tu bicicleta.



PASO 2



PASO 3

El primer perfil tiene un modo multiasistencia por defecto. Puedes modificar el número de niveles desde 3 hasta 15 y la intensidad de cada línea de manera individual.

Dentro de cada perfil puedes guardar diferentes configuraciones pero sólo se cargará una en tu bicicleta.

El segundo perfil tiene un modo de asistencia básico. Puedes modificar la intensidad de los 3 niveles.

PASO 4

Al pulsar "aplicar", el perfil 1 y el perfil 2 se cargarán en tu bicicleta.



20.3. CAMBIAR ENTRE PERFILES

Una vez que se han cargado los perfiles, puedes elegir usar el perfil 1 o el perfil 2 en la bicicleta.

Para seleccionarlos:

1. Enciende la bicicleta.
2. Accede al menú Ajuste pulsando prolongadamente el botón de desplazamiento de la pantalla.
3. Navega hasta el modo de asistencia presionando el botón Abajo 8 veces.
4. Entra al modo de asistencia presionando el modo de Pantalla.
5. Elige entre los perfiles existentes y presiona el botón Pantalla para validar la selección.





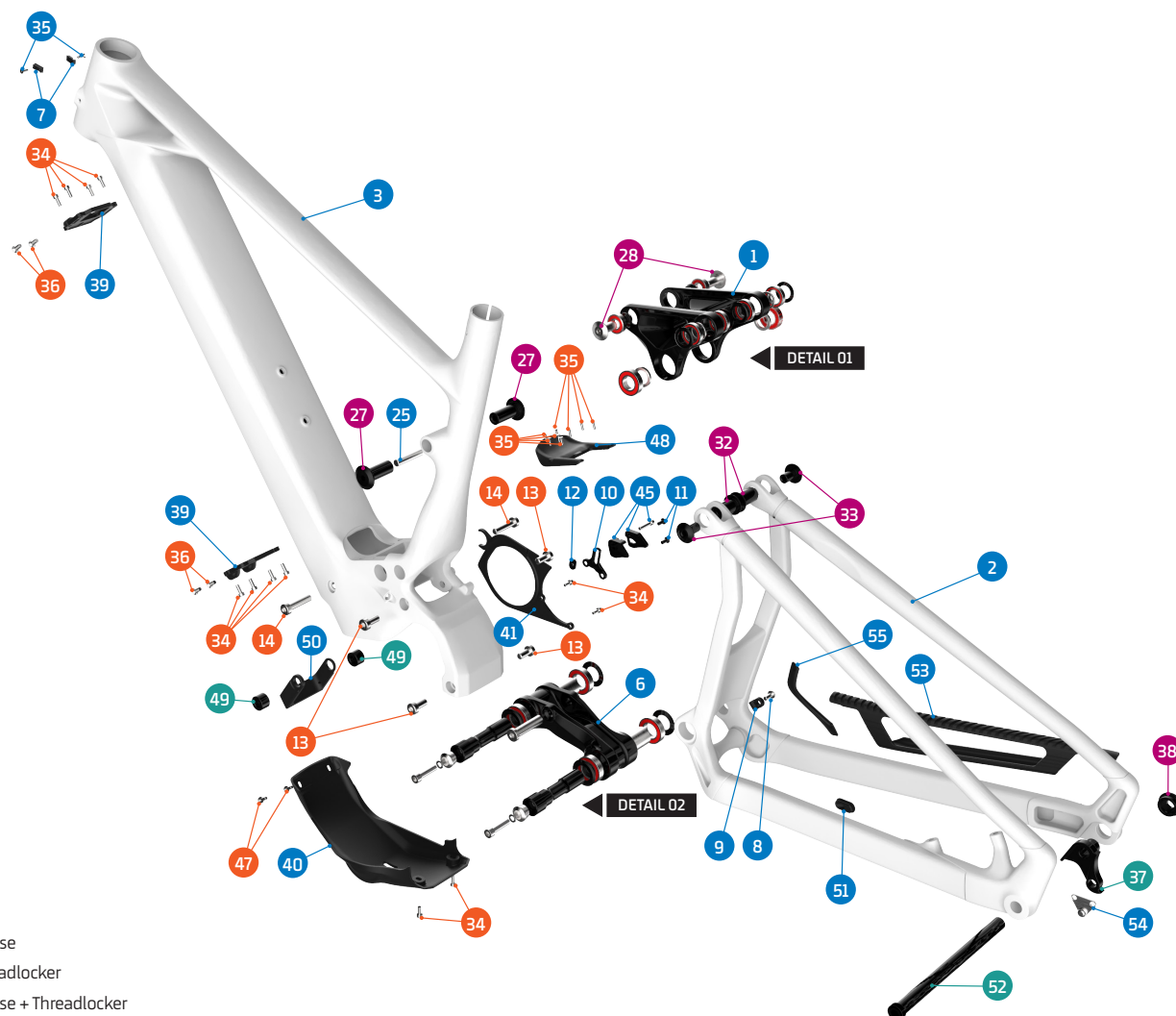
21. CAMBIO AUTOMÁTICO

Al presionar el botón de modo Cambio, se alternará entre el modo manual, auto 1 y auto 2.





22. SPARE PARTS



● Grease

● Threadlocker

● Grease + Threadlocker

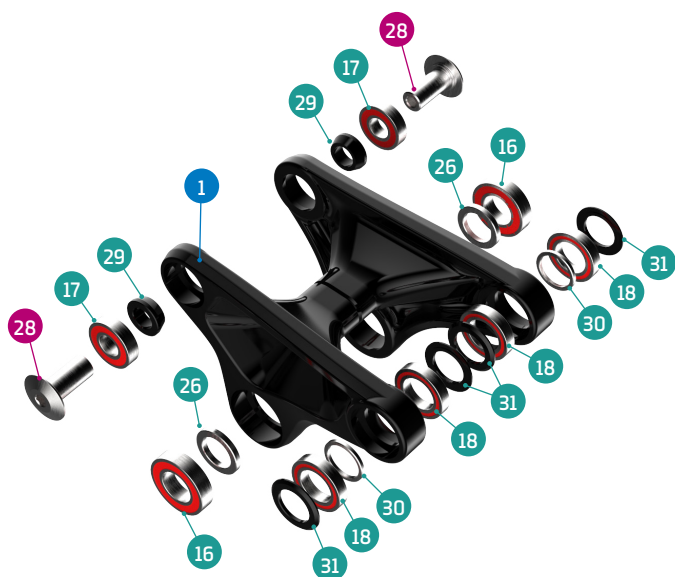
Apply grease to the shaft, and locker to the threads

ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
1	UPPER LINK	1	099.20039	
2	REAR TRIANGLE	1		
3	FRONT TRIANGLE	1		
6	LOWER LINK	1	099.20040	
7	HEADTUBE CABLE CLAMP	2	SET 6	
8	BOLT M5x12L-R11F	1		3Nm
9	RT CABLE GUIDE	1	099.22064	
10	CHAINGUIDE SLIDING MOUNT	1	SET 10	
11	CHAINGUIDE SCREW M5x12L	2	SET 10	3Nm
12	CHAINGUIDE SLIDING NUT	1	SET 10	
13	MOTOR BOLT 18MM	4	SET 8	15Nm
14	MOTOR BOLT 36MM	2	SET 8	15Nm
15	BEARING 30x17x7	4	SET 1	
16	BEARING 28x15x7	2	SET 1	
17	BEARING 22x10x6	2	SET 1	
18	BEARING 24x15x5	4	SET 1	
19	LOWER LINK SPACER 22x17x30L	2	SET 4	
20	LOWER LINK SHIELD 27x15x2	4	SET 4	
21	LOWER LINK COLLET BOLT	2	SET 4	12Nm
22	LOWER SHOCK BOLT	1	099.21012 / SET 2	16Nm
23	TAPER NUT	2	SET 4	
24	BOLT M6x25L-P11M	2	SET 4	10Nm
25	UPPER LINK THREADED	1	SET 3	
26	BEARING SPACER 22x15x3	2	SET 3	
27	UPPER LINK SEATTUBE AXLE	2	SET 3	11Nm
28	UPPER SHOCK BOLT	2	SET 2	8Nm

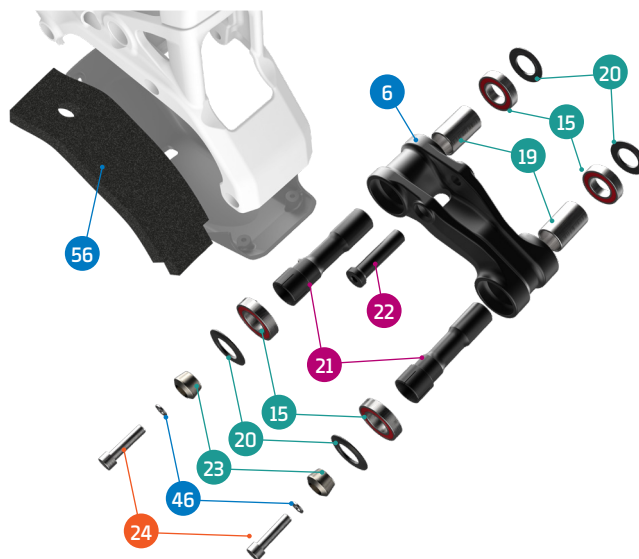
ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
29	SHOCK SPACER 17x10x6	2	SET 2	
30	BEARING SPACER 19x15x2	2	SET 3	
31	BEARING SPACER 24x15x2	2	SET 3	
32	UPPER LINK RT BOLT	4	SET 3	
33	UPPER LINK RT BOLT	2	SET 3	12Nm
34	BOLT M5x10L-P-S	12		3Nm
35	BOLT M3x10L-M-S	10	SET 6	2Nm
36	BATTERY BRACKET SCREW	4	SET 9	6Nm
37	HANGER	1	SET 5	
38	HANGER NUT	1	SET 5	4Nm
39	SIMPLO 720 Wh BRACKET	2	099.24056	
40	EP801 LOWER MOTOR COVER	1	099.23050	
41	EP801 RIGHT SIDE MOTOR COVER	1	099.24005	
45	CHAIN GUIDE BOLT	1	099.20010A	4Nm
46	COLLET WASHER SPACER	2	SET 4	
47	LOW PROFILE BOLT	2	099.24007	3Nm
48	CHARGING PORT COVER	1	099.24006	
49	MOTOR SPACER	2	SET 7	
50	MOTOR BRACKET	1	SET 7	
51	GROMMET	1	989.13010	
52	REAR AXLE 12x148 P1.75 L180	1	112.90022	
53	CHAIN PROTECTOR	1	099.20017	
54	ROTOR MAGNET SPEED SENSOR	1	124.20401	
55	YOKE PROTECTOR	1	099.20056	
56	SPONGE MOTOR PROTECTOR	1	099.20086	



DETAIL 01

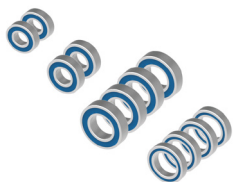


DETAIL 02



SET 1

ZERO BEARING KIT 20



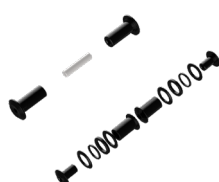
SET 2

SHOCK HARDWARE KIT 13



SET 3

UPPER LINK KIT 26



SET 4

LOWER LINK KIT 24



SET 5

HANGER M068 + NUT



PART NUMBER	DESCRIPTION	COMPONENTS
099.20101	SET 1: ZERO BEARING KIT 20	BEARING 6903V-2RS, 30x17x7 (x4) / BEARING 6802V-2RS, 24x15x5 (x 4) / BEARING 6902V-2RS, 28x15x7 (x2) / BEARING 6900V-2RS, 10x22x6 (x2)
099.20201	SET 2: SHOCK HARDWARE KIT 13	SHOCK BOLT (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x1)
099.20301	SET 3: UPPER LINK KIT 26	SPACER, 15x19x21 (x2) / SPACER, 15x24x2 (x4) / M8 THREAD AXLE (x1) / LINK AXLE (x2) / PIVOT AXLE, 26MM (x2) / PIVOT AXLE, M12 (x2) / SPACER, 15x22x3 (x2)
099.20401	SET 4: LOWER LINK KIT 24	TAPER NUT (x2) / SPACER (x2) / SCREW BOLT (x2) / SPACER, 15x27x2 (x4) / MAIN PIVOT AXLE, 17X60 (x2) / SPACER, 17x22x30L (x2)
099.00055	SET 5: HANGER M068 + NUT	HANGER (x1), HANGER NUT (x1)
099.24001	SET 6: GUIJA CABLE KIT CRUSHER	HEADTUBE INTERNAL CABLE CLAMP (x2) / SCREW BOLT (x2)
099.24002	SET 7: MOTOR SPACERS & BRACKET SET	MOTOR MOUNT FRONT BOLT SPACER (x2) / SKID PLATE MOUNTING BRACKET (x1)
099.24003	SET 8: MOTOR BOLTS SET	MOTOR MOUNTING BOLT, 18MM (x4) / MOTOR MOUNTING BOLT, 36MM (x2)
099.24004	SET 9: BATTERY BOLTS SET	BATTERY BRACKET FIXING SCREW (x4)
099.20081	SET 10: CHAIN GUIDE PLATE + BOTLS	CHAINGUIDE SLIDING MOUNT (x1) / CHAINGUIDE MOUNTING SCREW CSUNK (x2) / CHAINGUIDE SLIDING NUT (x1)



23. PREGUNTAS FRECUENTES

¿QUÉ AMORTIGUADORES SON COMPATIBLES CON CRUSHER?

Crafty es compatible con todos los amortiguadores de aire y muelle con o sin depósito como los Fox Float, Float DPS, Float X, Float DPX2, RockShox Deluxe, Vivid, Super Deluxe Air o Coil, así como los Float X2 o DHX2 o los Öhlins TTX Air o los TTX22. Crafty monta amortiguadores de medida métrica 205x65mm con anclaje superior Trunnion, mientras que en el inferior se utiliza un casquillo de 25x10mm.

¿CÚAL ES EL MÁXIMO RECORRIDO DE HORQUILLA QUE SE PUEDE MONTAR EN CRUSHER?

Crusher es compatible con horquillas de hasta 170mm.

¿EN QUÉ SE DIFERENCIA EL CUADRO CRUSHER DEL CRAFTY CARBON?

La geometría, la cinemática de la suspensión y el recorrido son los mismos, aunque la Crusher utiliza un basculante trasero de aluminio en lugar de carbono como la Crafty Carbon.

¿PUEDE INSTALARSE UN EXTENSOR DE AUTONOMÍA EN EL CUADRO?

Crusher no tiene soportes específicos para instalar un extensor de autonomía y, por eso, no se puede instalar.

¿PUEDO HACER CAMBIOS EN LA BICI COMO, POR EJEMPLO, EN EL CAMBIO O EN LOS NEUMÁTICOS?

Las bicicletas se ensamblan a mano en nuestras instalaciones de Mondraker y los parámetros técnicos y la programación de cada bicicleta también los ajustamos nosotros para garantizar su perfecto funcionamiento y todas las homologaciones pertinentes. El tamaño de la llanta y del neumático, el número de velocidades y sus diferentes números de piñones, etc., se definen en el programa de configuración de cada bicicleta para obtener un rendimiento adecuado. Cualquier modificación o actualización del firmware del sistema debe realizarla un distribuidor oficial Mondraker.

¿PUEDE QUITARSE LA BATERÍA A CRUSHER?

Crusher está centrada, esencialmente, en el rendimiento y su diseño tiene como objetivo conseguir el peso más ligero posible, por lo que la batería es interna y no extraíble. Para cargar la batería, tendrás que conectar el cargador directamente al puerto de batería situado debajo del tubo principal. Si, por cualquier motivo, fuera necesario extraer la batería, cualquier distribuidor Mondraker podrá extraer la batería retirando primero el motor.

¿CUÁNTO TARDA EN CARGARSE COMPLETAMENTE LA BATERÍA?

Si la batería está completamente descargada al 0%, con el cargador original se tarda unas 5 horas en cargar completamente la batería al 100%.

¿QUÉ TALLA DEBO COMPRAR?

Las tallas difieren de un ciclista a otro. Las preferencias personales son muy particulares y la forma de montar la bici también es importante a la hora de elegir la talla correcta. Esta es una tabla de tallas estándar que puedes utilizar como guía:

S 1.58 - 1.68

M 1.67 - 1.76

L 1.75 - 1.86

XL 1.85 - 1.95

¿QUÉ LONGITUD MÁXIMA DE TIJA TELESCÓPICA PUEDO UTILIZAR EN CRUSHER?

Consulta la tabla de la sección 3 de este manual.

¿QUÉ TIPO DE MANTENIMIENTO O COMPROBACIONES DE SEGURIDAD REQUIEREN LOS MOTORES?

Absolutamente ninguno. Tampoco es necesario lubricar ninguna pieza de la unidad de accionamiento ni desmontarla... Lo único que hay que hacer es cuidarla como una bicicleta de montaña tradicional. Es importante mencionar, no obstante, como precaución aplicable a cualquier bicicleta de montaña que las piezas electrónicas y, en concreto, la zona del eje de pedalier de la unidad de accionamiento, no deben limpiarse nunca con ninguna máquina de limpieza de alta presión. Por lo tanto, no se recomienda utilizar un chorro de agua a alta presión para limpiar directamente el eje de bielas, ya que pueden dañarse gravemente las piezas electrónicas de la unidad de accionamiento.



Toda la información e imágenes que contiene este documento se proporcionan, únicamente, a título informativo y no constituyen un contrato legal entre Mondraker y ninguna persona ni entidad. Las especificaciones, geometrías o cualquier otra información técnica aquí publicada están sujetas a cambios sin necesidad de previo aviso.

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MANUALS & DOCUMENTS



SAFETY AND GENERAL INSTRUCTIONS

Please, be aware that the following 3 icons may appear in this technical guide. Each one indicates to take the following precautions:

WARNING!

Not keeping to the indications or following unsafe practices may result in serious injuries or even death. The tasks involve technical difficulty and if they are badly developed, they could damage your bicycle or result in a void warranty.

CAUTION

Not keeping to the indications or following unsafe practices may result in light injuries. The tasks involve technical difficulty and if they are badly developed, they could damage your bicycle or result in a void warranty.

INFORMATION

Information which is essential for a proper execution of the task and therefore, avoid any possible damage to your bicycle or losing the warranty, but does not involve any risk for the rider.

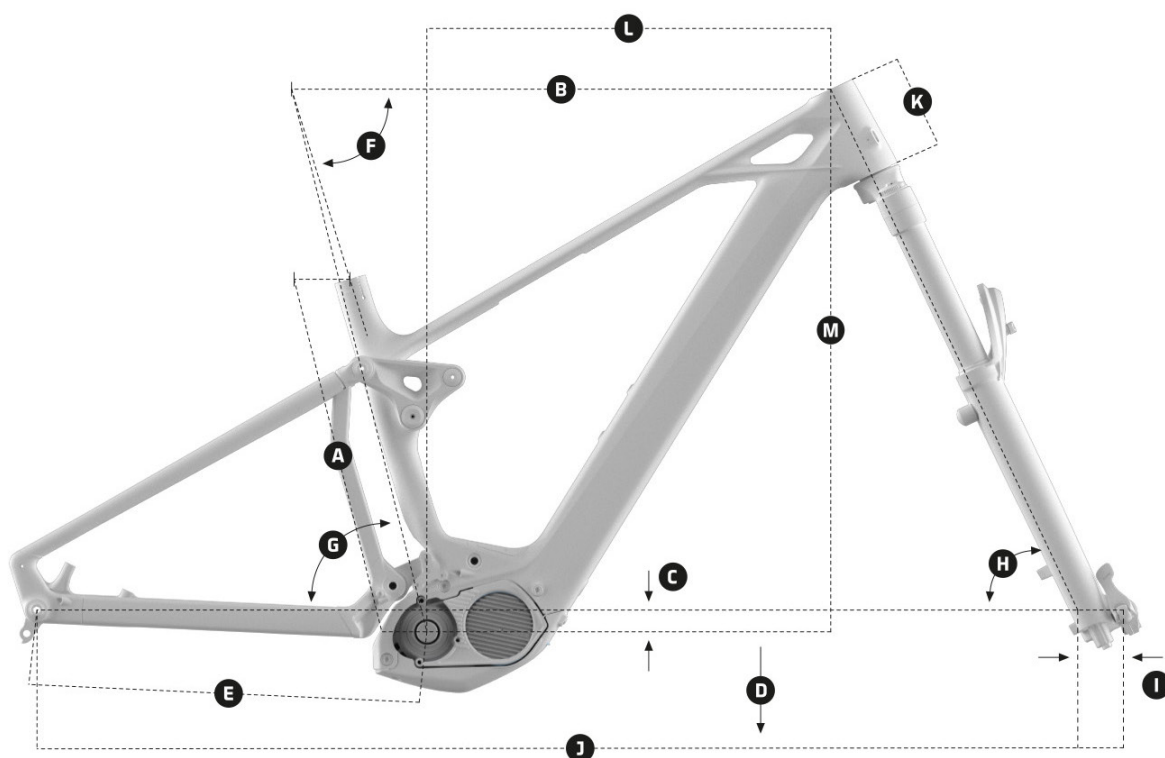
CONSIDERATIONS

- Using non-original spare parts may result in damage, malfunctions and accidents which may lead to severe consequences.
- Please note that to perform some of the steps described in this manual, skills beyond the average bicycle user are required. In the event of not being qualified to follow any of these steps, please take your bicycle to a Mondraker authorized technical service for maintenance and replacement of its components. The incorrect installation of spare parts can result in malfunctions, accidents, injuries, and warranty void.
-  For further installation details regarding electrical components, motor, display and control remote, please refer to Shimano manuals. <https://si.shimano.com/#/>

CLEANING & CARE

- Once the pieces are disassembled, it is recommended to clean, grease, and put threadlocker (if necessary) on the components which are going to be re-used.

1. GEOMETRY



SIZE	S	M	L	XL
A Seat Tube Length	380mm	420mm	450mm	490mm
B Top Tube Length	605mm	625mm	650mm	670mm
C Bottom Bracket Drop	-25mm	-25mm	-25mm	-25mm
D Bottom Bracket Height	350mm	350mm	350mm	350mm
E Chainstay Length	455mm	455mm	455mm	455mm
F Seat Tube Angle, Actual	73.5°	73.5°	73.5°	73.5°
G Seat Tube Angle, Effective	76.0°	76.0°	76.0°	76.0°
H Headtube Angle	65.0°	65.0°	65.0°	65.0°
I Fork Offset	44mm	44mm	44mm	44mm
J Wheelbase	1236mm	1256mm	1285mm	1305mm
K Headtube Length	110mm	110mm	130mm	140mm
L Reach	450mm	470mm	490mm	510mm
M Stack	632mm	632mm	645mm	645mm

2. FRAME TECHNICAL SPECIFICATIONS

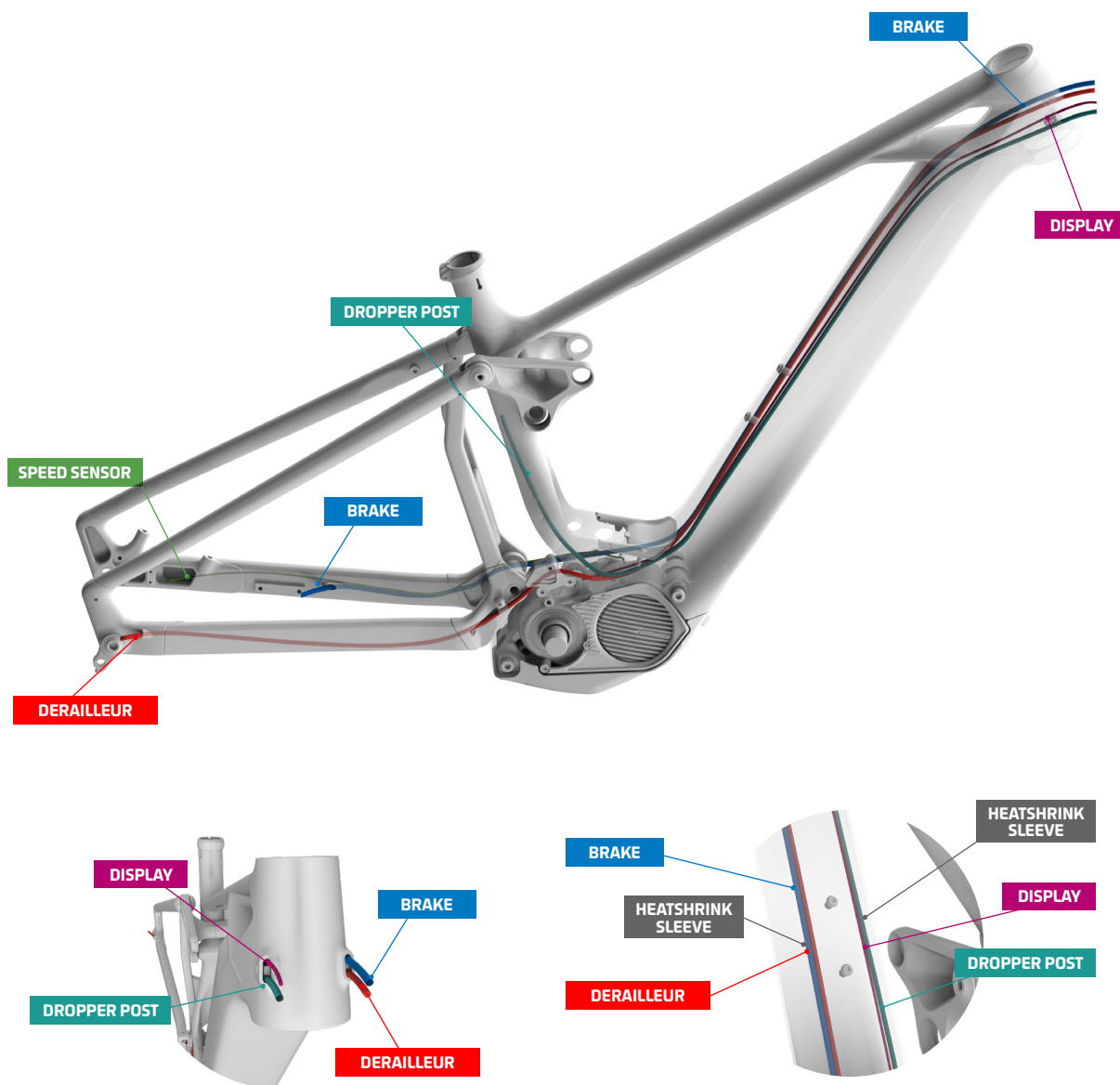
FRAME SIZES	S / M / L / XL
FRONT WHEEL SIZE	29"
FRONT HUB	110mm x 15mm
REAR WHEEL SIZE	29"
REAR HUB	148mm x 12mm (BOOST)
REAR AXLE	L180mm M12 PITCH 1.75, HEAD DIAMETER 19mm
TOTAL WATER BOTTLE / RANGE EXTENDERS MOUNTS	1 INTEGRATED FIDLOCK POCKET + 1 WATER BOTTLE CAGE MOUNT
MOTOR	Shimano STEPS EP801
BOTTOM BRACKET	Shimano
BATTERY SIZE	720Wh
RANGE EXTENDER COMPATIBLE	YES, 500ml WATER BOTTLE SIZE
REAR TRAVEL	150mm
REAR SHOCK	205 x 65mm TRUNNION, 25 x 10mm BOTTOM BUSHINGS
FRONT TRAVEL	160mm, 170mm MAX
SEATPOST DIAMETER	31.6mm (37mm seatpost clamp)
CHAINLINE	55mm
HEADSET	UPPER: IS52 1 1/8", LOWER ZS56 BLOCKLOCK 1.5"
MAX CHAINRING	34T
REAR BRAKE	POST MOUNT, DIRECT 200mm
MAX REAR TIRE WIDTH	66mm, 29 x 2.6"

3. SEAT POST INSERTION DEPTH



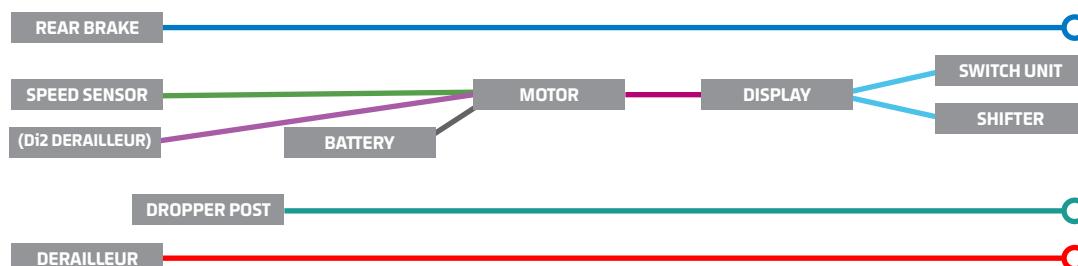
FRAME SIZE	MIN. (mm)	MAX. (mm)
XL	100	285
L	100	245
M	100	215
S	100	175

4. INTERNAL ROUTING



Cables run through a internal cable sleeve.

5. CABLE CONNECTION DIAGRAM



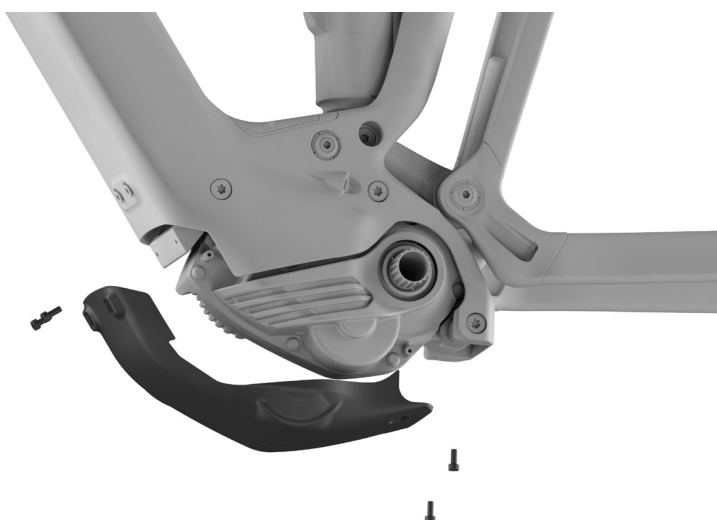
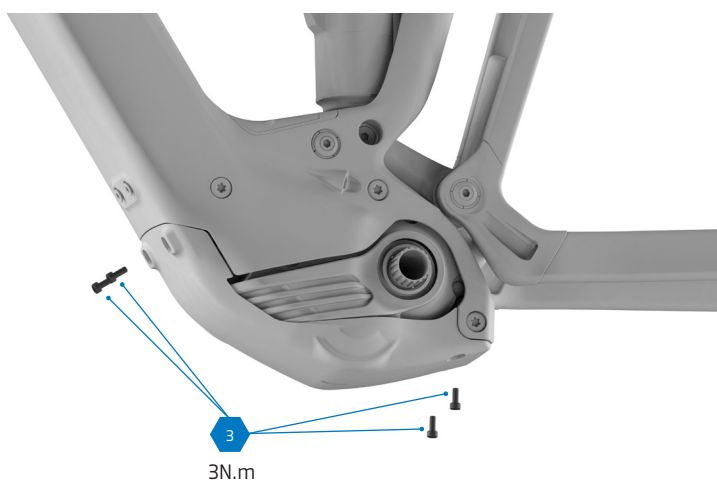
6. DRIVE UNIT

6.1. REMOVE COVER



STEP 1

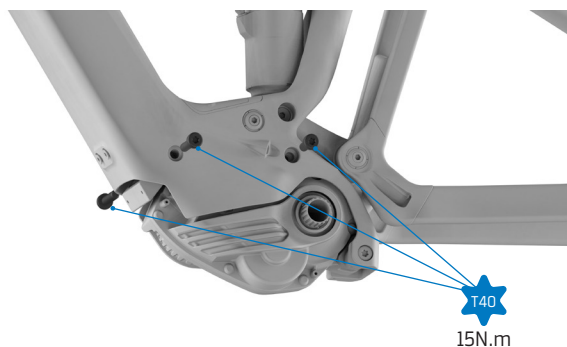
Unscrew 4 screws and remove cover.



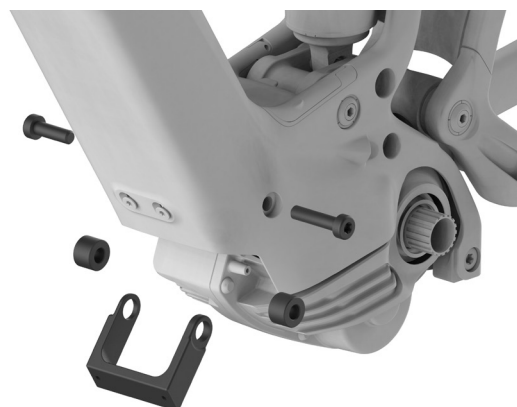
STEP 2

Remove cover.

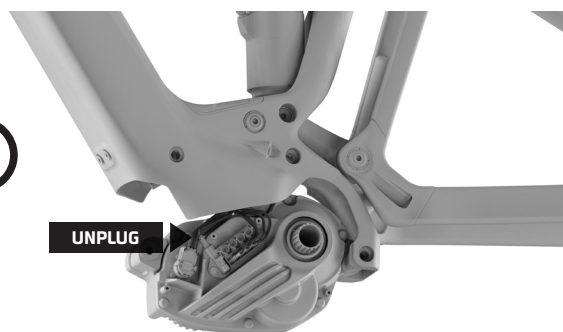
6.2. REMOVE DRIVE UNIT



STEP 1 Unscrew 4 screws and remove motor bracket.



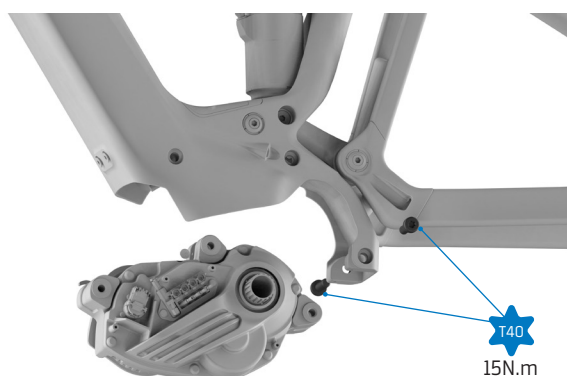
STEP 2 Rotate motor slightly and unplug connections



Always use Shimano TL-EW300 tool to plug and unplug cables into connections. Cables are extremely fragile and not using the correct tool will break the cable. For further information please refer to Shimano manuals. <https://si.shimano.com/#/>



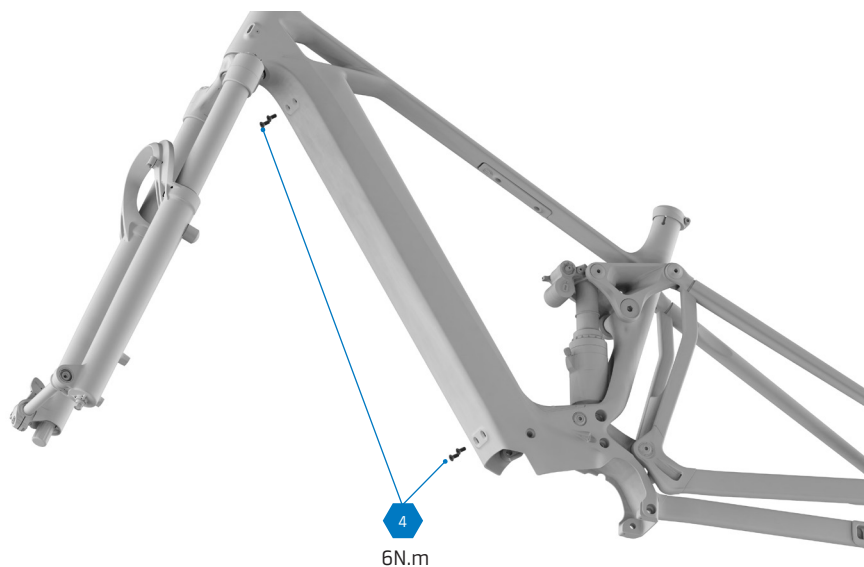
Be sure to attach dummy plugs to any unused E-TUBE ports.



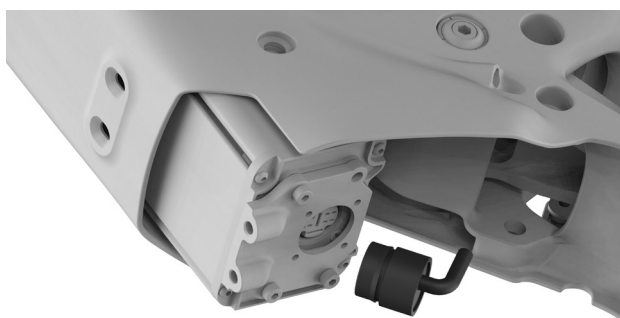
STEP 3 Unscrew 2 screws and remove motor

7. BATTERY DISASSEMBLY

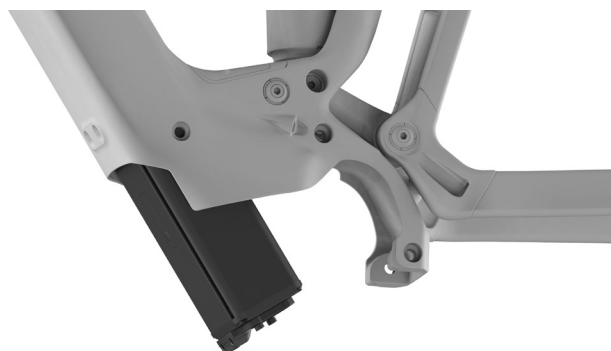
Follow steps 6.1 and 6.2



STEP 1 Unscrew 4 screws



STEP 2 Unplug connection



STEP 3 Extract battery



8. CONNECT A LIGHT (OPTIONAL)



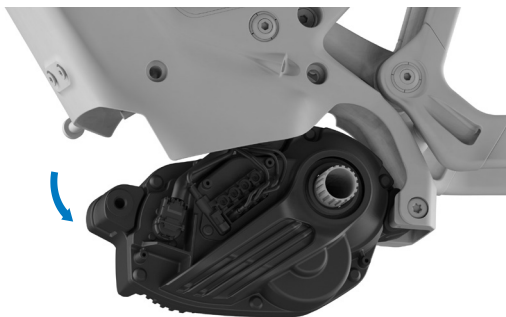
This bicycle comes with connection port for optional front and rear lighting



Always use Shimano TL-EW300 tool to plug and unplug cables into connections. Cables are extremely fragile and not using the correct tool will break the cable.

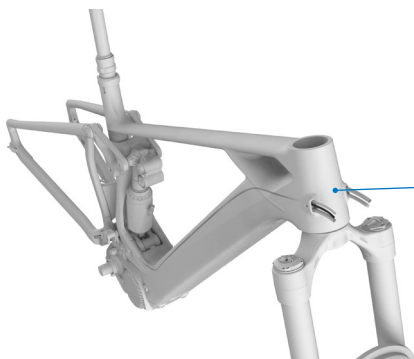


For further information regarding connections, please refer to Shimano manuals.
<https://si.shimano.com/#/>



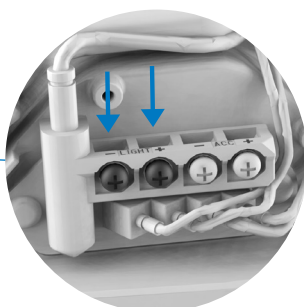
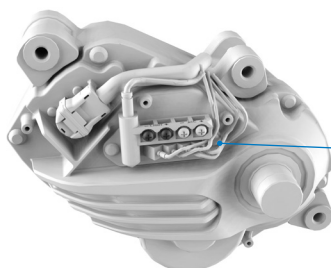
STEP 0

Follow steps 6.1 and 6.2 in order to leave drive unit with the connectors accessible.



STEP 1

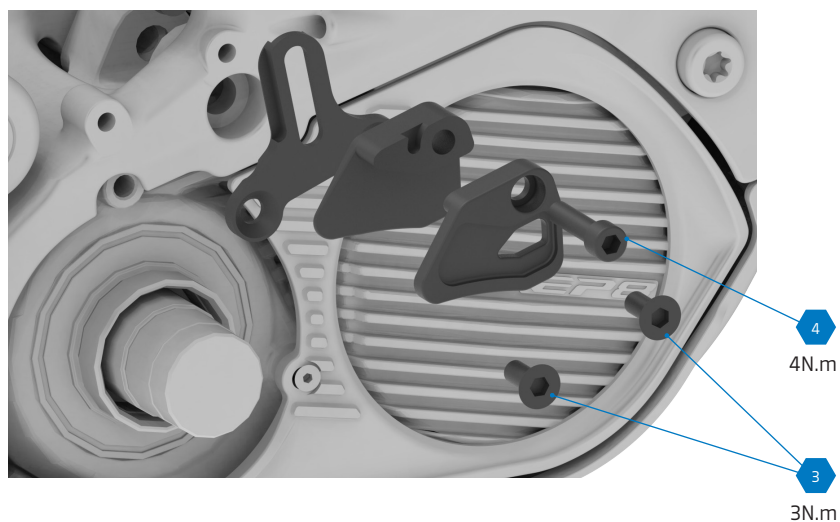
Route light cable through top right entry hole.



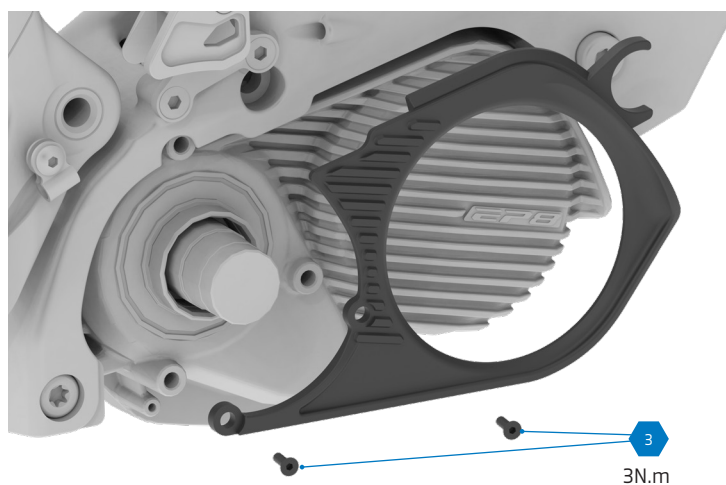
STEP 2

Connect the wires connected to the front light to the drive unit following shimano instructions.
<https://si.shimano.com/#/>

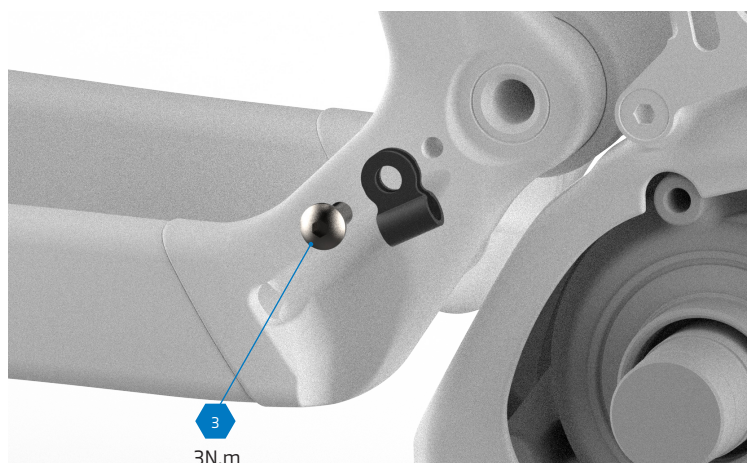
9. CHAIN GUIDE



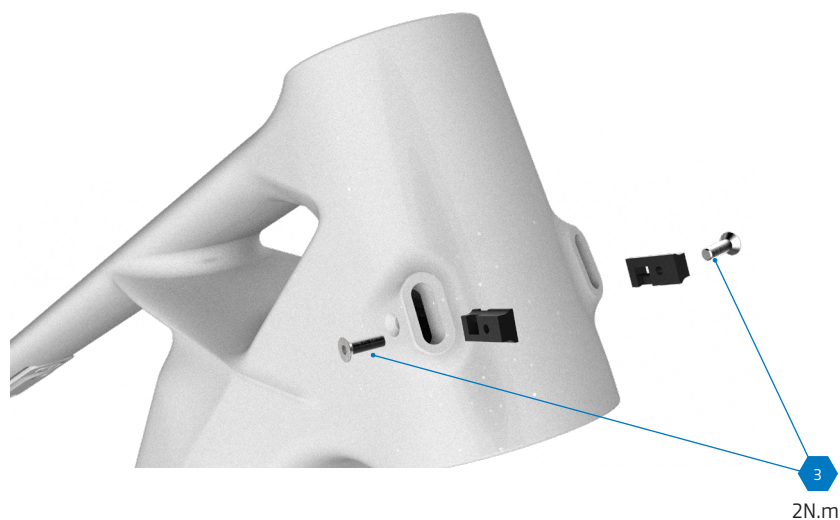
10. RIGHT SIDE MOTOR COVER



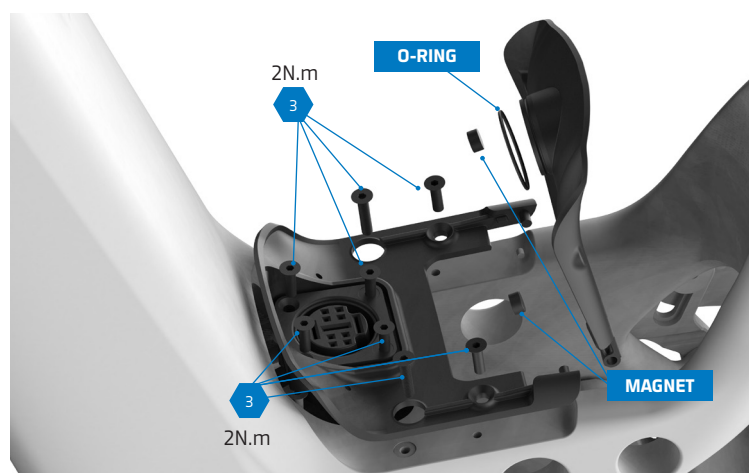
11. ROUTING CABLE GUIDE



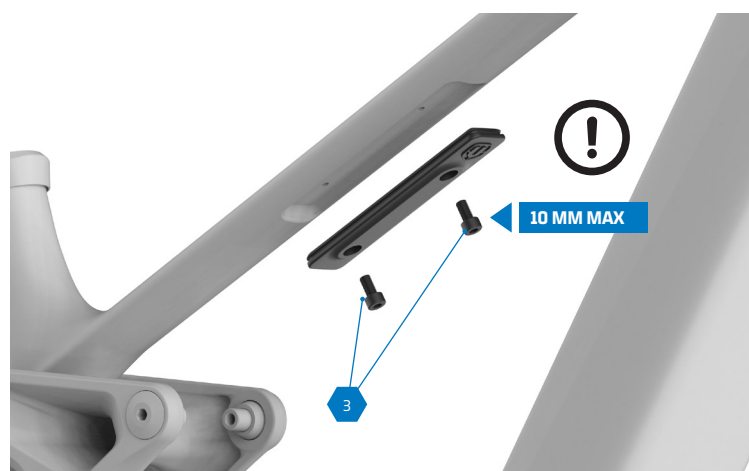
12. INTERNAL ROUTING INLET



13. CHARGING PORT COVER

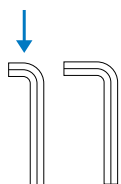


14. FIDLOCK COVER





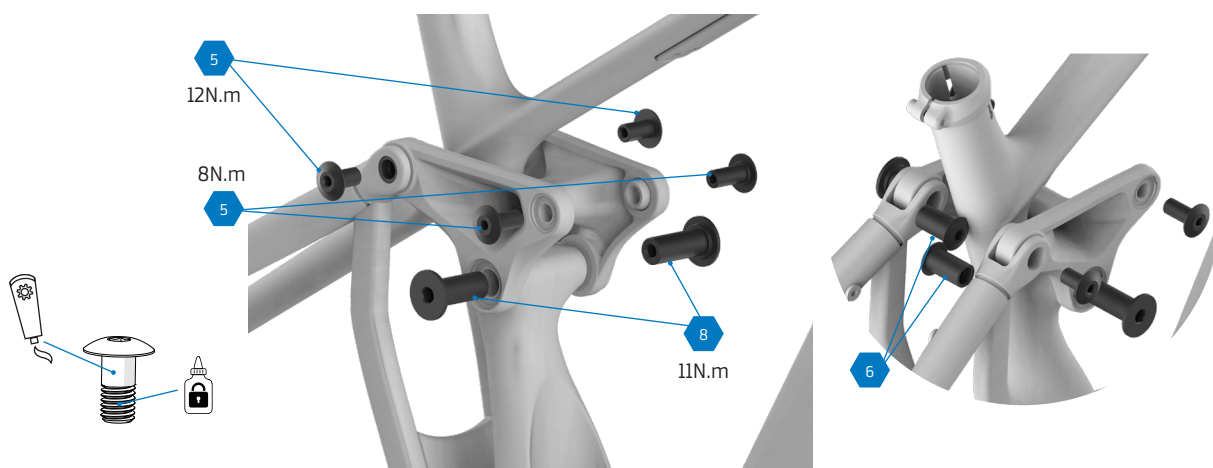
15. UPPER LINK INSTALLATION GUIDE



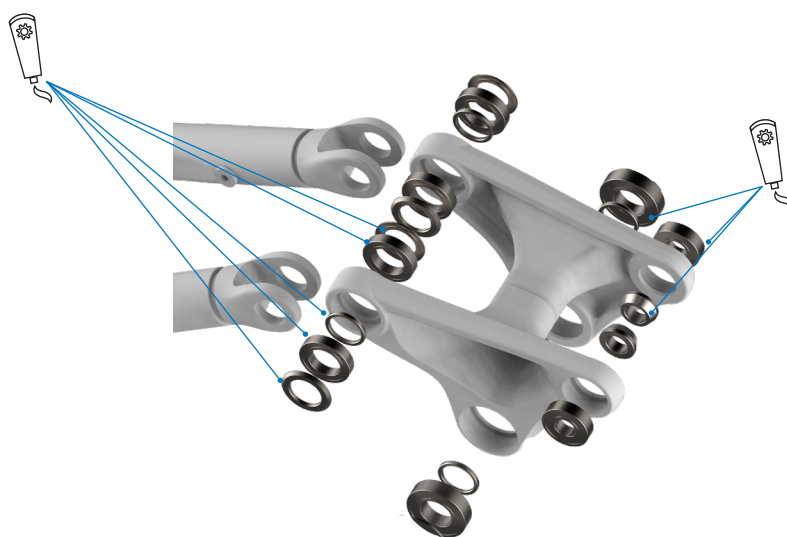
To reach rear triangle bolts, shock absorber must be removed or use a stubby hex wrench set.



For Rear shock removal, first release all air pressure.



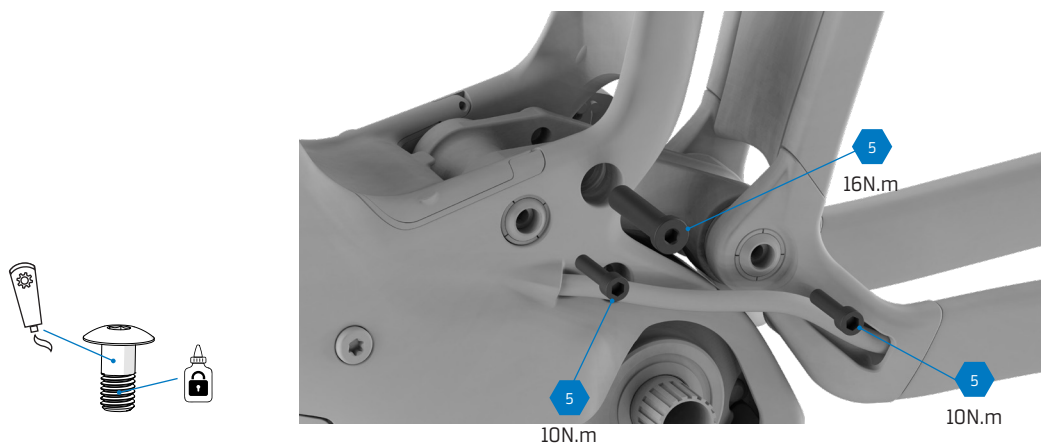
For main bolts apply grease to shaft and Loctite 243 or similar to threads.



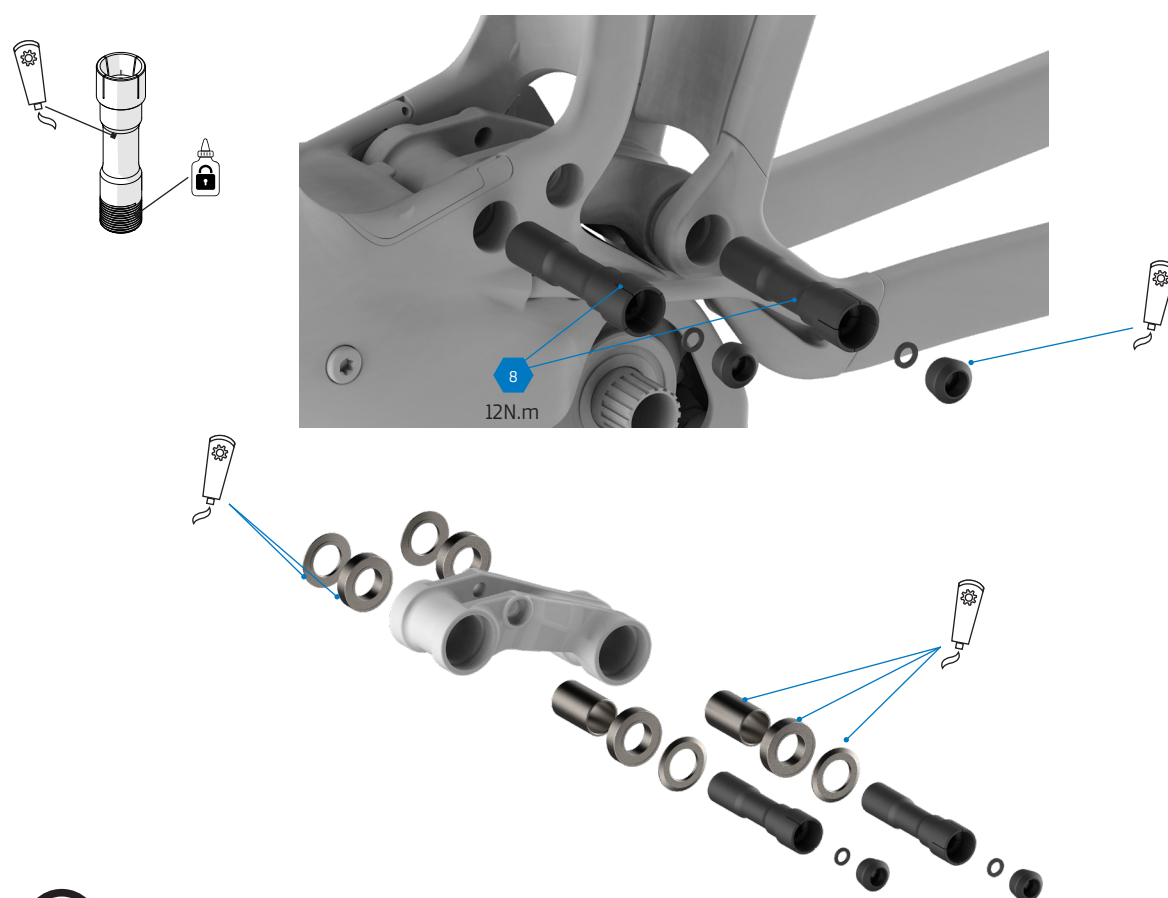
Apply grease to all bearings and spacers.



16. LOWER LINK INSTALLATION GUIDE



! For main bolts apply grease to shaft and Loctite 243 or similar to threads.



! Apply grease to all bearings and spacers.



17. SWITCH UNIT

The Shimano remote control SW-EN600-L has the following functions.



18. FINE ADJUSTMENT OF THE REAR DERAILLEUR

1. Turn your bike on.
2. Shift the rear derailleur to the 5th sprocket position.
3. Access Setting menu by long pressing Display scroll button.
4. Navigate to Setting > Adjust
5. While turning the front chainwheel use shifting switch levers to micro adjust the derailleur.
6. Confirm settings and Exit Setting menu.



19. CONNECTIVITY

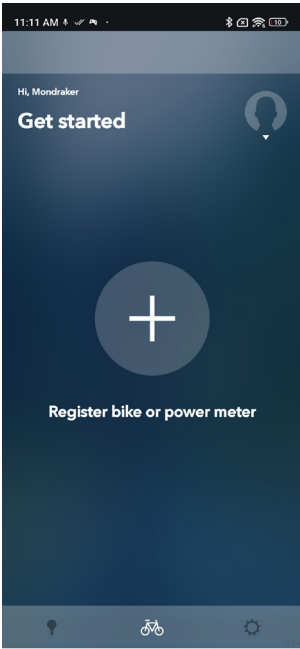
19.1. PAIRING YOUR SMARTPHONE

 Before first ride it is recommended to fully charge your bike.

With the smartphone application E-TUBE PROJECT Cyclist, you will be able to customize settings of your Mondraker Crusher as well as performing maintenance tasks.

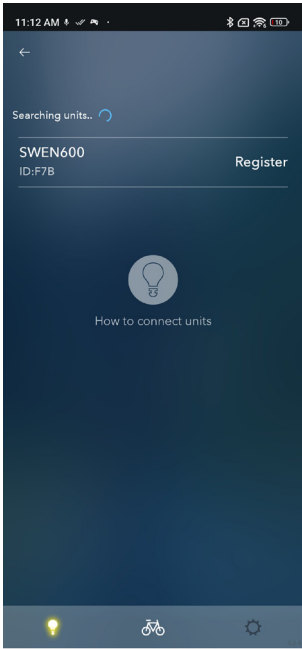
A more detail user manual is available in Shiamno Website.
Search for E-TUBE PROJECT Cyclist to download latest version.

STEP 1



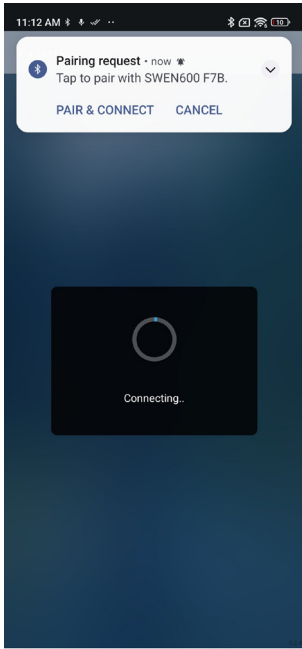
Tap + icon and power your bike.

STEP 2



Select it from the list.

STEP 3



Allow connections.

STEP 4



Your Bike is connected! _____



19.2. PAIRING YOUR GPS UNIT

1. To connect your bike to a GPS bicycle computer you first need to turn on your bike.
2. Turn on your GPS unit and select in the menu "Add Sensors" > "Search All".
3. Select at "Shimano STEPS" sensor.
4. Your Cycle computer is now linked to your Mondraker Crusher!

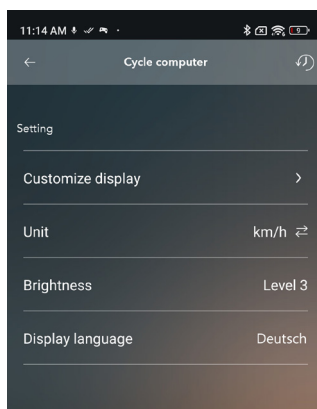
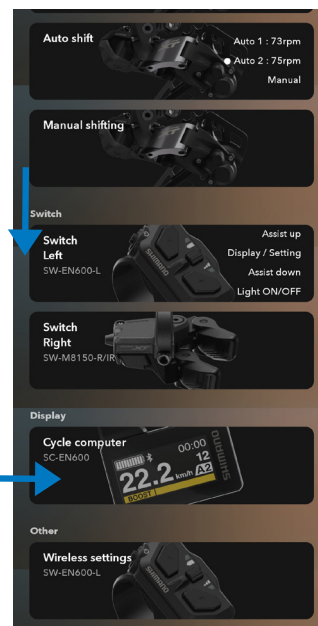




20. SETTINGS

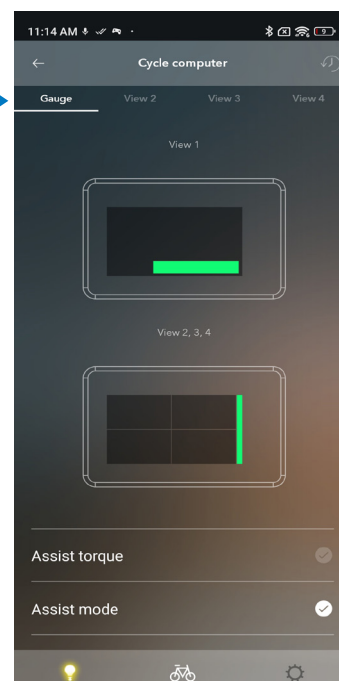
20.1. CHANGE DISPLAY LANGUAGE, INFO AND UNITS

1. Turn on your bike and connect your bike to your smartphone.
2. Tap on your previously saved bike.
3. Select CUSTOMIZE menu
4. Scroll down and select Cycle Computer
5. Select your preferred Units, Display Brightness and Language.



STEP 5

You can customize
Display data for
each 4 pages.





20.2. CONFIGURE ASSIST MODES AND PROFILES.

Shimano has the option to customize the power input by the drive unit allowing user to create different assist modes and 2 profiles.

1. Select CUSTOMIZE menu
2. Tap on Assist
3. Configure each Profile
4. Apply to save changes and send them to your bicycle.

STEP 1 →

STEP 2 →

STEP 3

First profile has a multiassistance mode by default. You can modify the number of levels ranging from 3 up to 15 and the intensity of each line individually.

Within a profile you can save different configurations but only one will be loaded in to your bike.

STEP 4 →

When applying, the Profile 1 and Profile 2 will be loaded into your bicycle.

The image shows a sequence of four screenshots from the Shimano E-Bike app. The first screenshot shows the 'CUSTOMIZE' menu with 'Assist' selected. The second screenshot shows the 'Assist customize' screen with 'Profile1: FINE TUNE MODE' selected. The third screenshot shows the 'Profile1: FINE TUNE MODE' graph with 6 modes and 5 assist levels. The fourth screenshot shows the 'Profile2: BASIC MODE' graph with 3 assist levels. Arrows indicate the flow from Step 1 to Step 4.

20.3. CHANGE BETWEEN PROFILES

Once profiles are loaded, you can choose in your bike to ride on Profile 1 or Profile 2.

To select them:

1. Turn your bike on.
2. Access Setting menu by long pressing Display scroll button.
3. Navigate to Assist Mode by pressing Down Button 8 times.
4. Enter Assist Mode by pressing Display mode.
5. Choose between Profiles and press Display Button to validate selection.



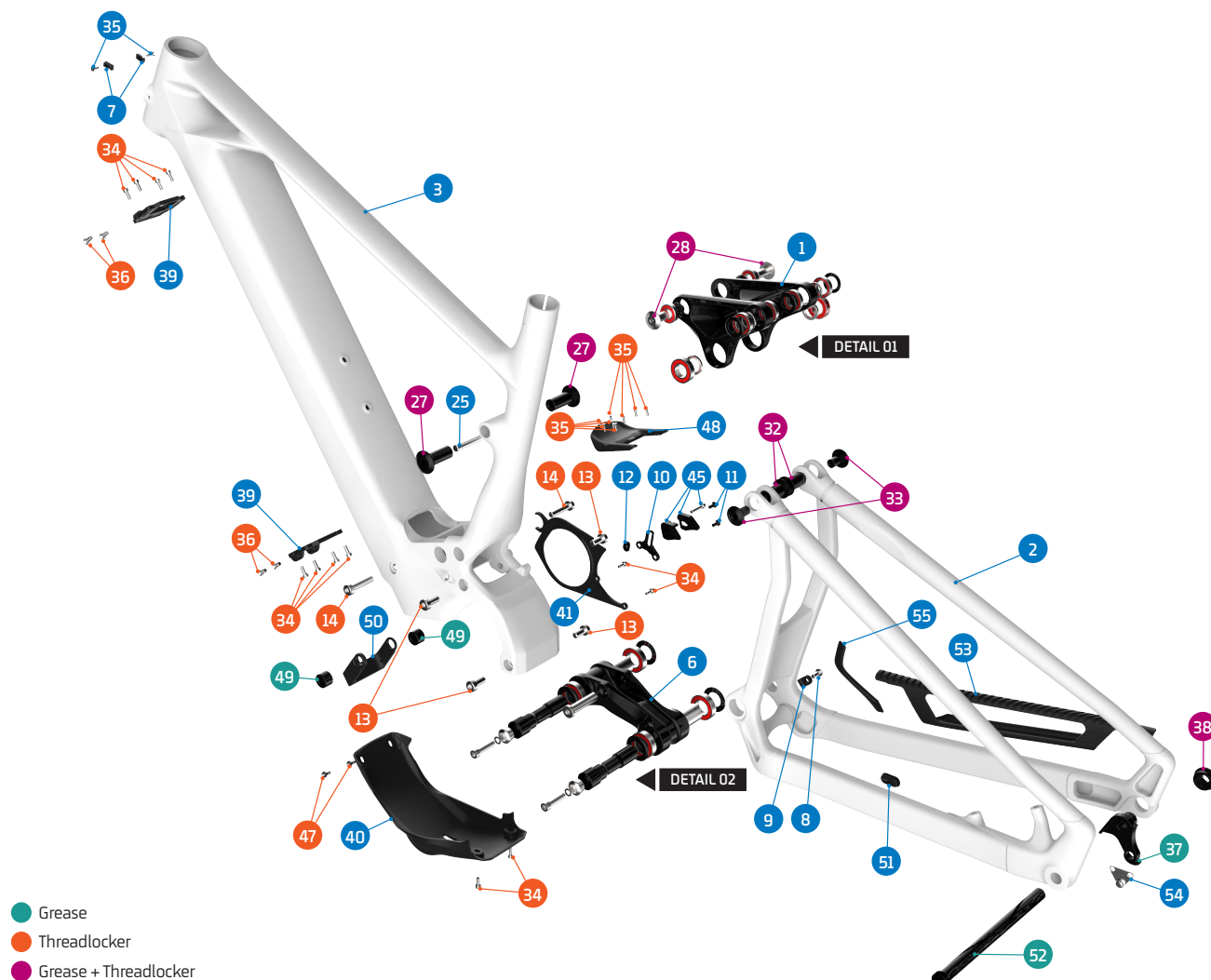
21. AUTO SHIFT

By pressing Shift mode button you will cycle between Manual Mode, Auto 1 and Auto 2.





22. SPARE PARTS



● Grease

● Threadlocker

● Grease + Threadlocker

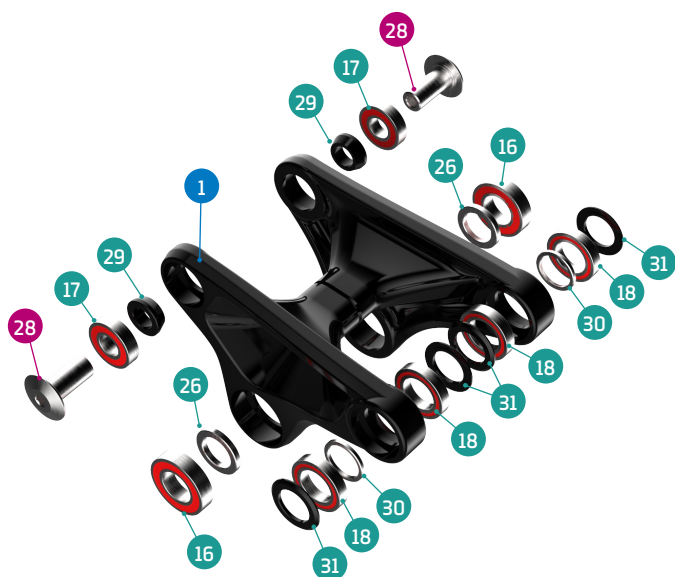
Apply grease to the shaft, and locker to the threads

ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
1	UPPER LINK	1	099.20039	
2	REAR TRIANGLE	1		
3	FRONT TRIANGLE	1		
6	LOWER LINK	1	099.20040	
7	HEADTUBE CABLE CLAMP	2	SET 6	
8	BOLT M5x12L-R11F	1		3Nm
9	RT CABLE GUIDE	1	099.22064	
10	CHAINGUIDE SLIDING MOUNT	1	SET 10	
11	CHAINGUIDE SCREW M5x12L	2	SET 10	3Nm
12	CHAINGUIDE SLIDING NUT	1	SET 10	
13	MOTOR BOLT 18MM	4	SET 8	15Nm
14	MOTOR BOLT 36MM	2	SET 8	15Nm
15	BEARING 30x17x7	4	SET 1	
16	BEARING 28x15x7	2	SET 1	
17	BEARING 22x10x6	2	SET 1	
18	BEARING 24x15x5	4	SET 1	
19	LOWER LINK SPACER 22x17x30L	2	SET 4	
20	LOWER LINK SHIELD 27x15x2	4	SET 4	
21	LOWER LINK COLLET BOLT	2	SET 4	12Nm
22	LOWER SHOCK BOLT	1	099.21012 / SET 2	16Nm
23	TAPER NUT	2	SET 4	
24	BOLT M6x25L-P11M	2	SET 4	10Nm
25	UPPER LINK THREADED	1	SET 3	
26	BEARING SPACER 22x15x3	2	SET 3	
27	UPPER LINK SEATTUBE AXLE	2	SET 3	11Nm
28	UPPER SHOCK BOLT	2	SET 2	8Nm

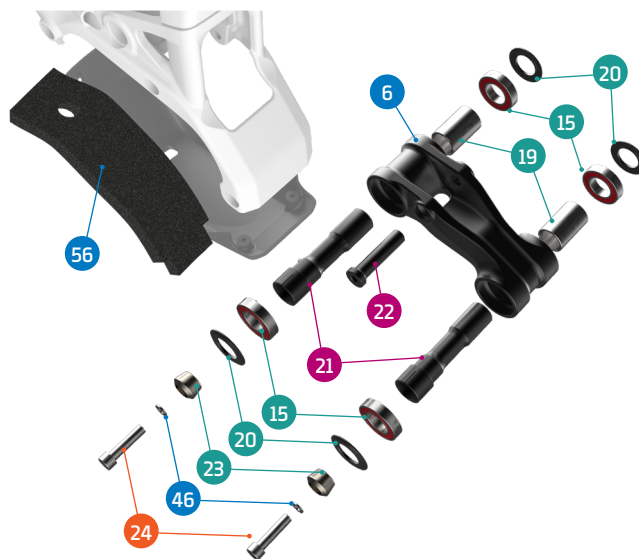
ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
29	SHOCK SPACER 17x10x6	2	SET 2	
30	BEARING SPACER 19x15x2	2	SET 3	
31	BEARING SPACER 24x15x2	2	SET 3	
32	UPPER LINK RT BOLT	4	SET 3	
33	UPPER LINK RT BOLT	2	SET 3	12Nm
34	BOLT M5x10L-P-S	12		3Nm
35	BOLT M3x10L-M-S	10	SET 6	2Nm
36	BATTERY BRACKET SCREW	4	SET 9	6Nm
37	HANGER	1	SET 5	
38	HANGER NUT	1	SET 5	4Nm
39	SIMPLO 720 Wh BRACKET	2	099.24056	
40	EP801 LOWER MOTOR COVER	1	099.23050	
41	EP801 RIGHT SIDE MOTOR COVER	1	099.24005	
45	CHAIN GUIDE BOLT	1	099.20010A	4Nm
46	COLLET WASHER SPACER	2	SET 4	
47	LOW PROFILE BOLT	2	099.24007	3Nm
48	CHARGING PORT COVER	1	099.24006	
49	MOTOR SPACER	2	SET 7	
50	MOTOR BRACKET	1	SET 7	
51	GROMMET	1	989.13010	
52	REAR AXLE 12x148 P1.75 L180	1	112.90022	
53	CHAIN PROTECTOR	1	099.20017	
54	ROTOR MAGNET SPEED SENSOR	1	124.20401	
55	YOKE PROTECTOR	1	099.20056	
56	SPONGE MOTOR PROTECTOR	1	099.20086	



DETAIL 01

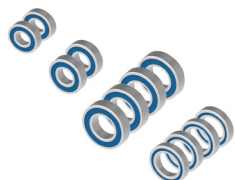


DETAIL 02



SET 1

ZERO BEARING KIT 20



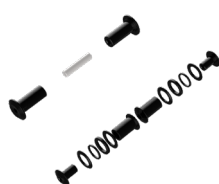
SET 2

SHOCK HARDWARE KIT 13



SET 3

UPPER LINK KIT 26



SET 4

LOWER LINK KIT 24



SET 5

HANGER M068 + NUT



PART NUMBER	DESCRIPTION	COMPONENTS
099.20101	SET 1: ZERO BEARING KIT 20	BEARING 6903V-2RS, 30x17x7 (x4) / BEARING 6802V-2RS, 24x15x5 (x 4) / BEARING 6902V-2RS, 28x15x7 (x2) / BEARING 6900V-2RS, 10x22x6 (x2)
099.20201	SET 2: SHOCK HARDWARE KIT 13	SHOCK BOLT (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x1)
099.20301	SET 3: UPPER LINK KIT 26	SPACER, 15x19x21 (x2) / SPACER, 15x24x2 (x4) / M8 THREAD AXLE (x1) / LINK AXLE (x2) / PIVOT AXLE, 26MM (x2) / PIVOT AXLE, M12 (x2) / SPACER, 15x22x3 (x2)
099.20401	SET 4: LOWER LINK KIT 24	TAPER NUT (x2) / SPACER (x2) / SCREW BOLT (x2) / SPACER, 15x27x2 (x4) / MAIN PIVOT AXLE, 17X60 (x2) / SPACER, 17x22x30L (x2)
099.00055	SET 5: HANGER M068 + NUT	HANGER (x1), HANGER NUT (x1)
099.24001	SET 6: GUIJA CABLE KIT CRUSHER	HEADTUBE INTERNAL CABLE CLAMP (x2) / SCREW BOLT (x2)
099.24002	SET 7: MOTOR SPACERS & BRACKET SET	MOTOR MOUNT FRONT BOLT SPACER (x2) / SKID PLATE MOUNTING BRAKET (x1)
099.24003	SET 8: MOTOR BOLTS SET	MOTOR MOUNTING BOLT, 18MM (x4) / MOTOR MOUNTING BOLT, 36MM (x2)
099.24004	SET 9: BATTERY BOLTS SET	BATTERY BRAKET FIXING SCREW (x4)
099.20081	SET 10: CHAIN GUIDE PLATE + BOTLS	CHAINGUIDE SLIDING MOUNT (x1) / CHAINGUIDE MOUNTING SCREW CSUNK (x2) / CHAINGUIDE SLIDING NUT (x1)



23. FAQs

WHICH SHOCKS ARE COMPATIBLE WITH CRUSHER?

Crusher is compatible with all coil sprung, air, inline or piggyback shocks such as the stock Fox Float, Float DPS, Float X, Float DPX2, RockShox Deluxe, Vivid, Super Deluxe Air or Coil as well as Float X2, DHX2 or Öhlins TTX Air or TTX22. Crusher feature metric sized 205 x 65 mm shocks with Trunnion upper mount and 25 x 10 mm bottom hardware.

WHICH IS THE MAXIMUM FORK TRAVEL I CAN RIDE ON CRUSHER?

Crusher is compatible with forks up to 170 mm travel.

HOW DOES THE CRUSHER FRAME DIFFER FROM THE CRAFTY CARBON?

Geometry, suspension kinematics and travel are all the same, although Crusher uses an aluminium rear swingarm instead of carbon like Crafty Carbon.

IS IT POSSIBLE TO FIT A RANGE EXTENDER ON THE FRAME?

Crusher does not have specific brackets for installing a range extender and cannot be installed.

CAN I MAKE CHANGES TO THE BIKE SUCH AS GEARING OR TIRES FOR INSTANCE?

Bikes are hand-assembled at our Mondraker Headquarters and each bike's technical parameters and programming are also set by us to ensure its perfect performance and all relevant homologation. Wheel size and tire size, number of speeds and its different sprocket numbers etc., are defined into each bike's setting program for proper performance. Any modification or system firmware update must be carried out by an official Mondraker Dealer.

IS IT POSSIBLE TO REMOVE THE BATTERY FROM CRUSHER?

Crusher is focused on pure performance and designed with the lightest possible weight in mind so the battery is internal and non removable. To charge the battery you'll need to plug the charger directly to the battery port below the main tube. If, by any chance a battery removal is needed, any Mondraker Dealer will be able to take out the battery removing the motor first.

HOW LONG DOES IT TAKE TO FULLY CHARGE THE BATTERY?

If the battery is fully drained to 0%, with the original charger it takes about 5 hours to fully charge the battery to 100%.

WHICH SIZE SHOULD I BUY?

Sizes differ from one rider to other. Personal preferences are very unique and how you ride your bike is also important when choosing the correct size. This is a standard size chart you can use as a guideline:

S 1.58 - 1.68

M 1.67 - 1.76

L 1.75 - 1.86

XL 1.85 - 1.95

WHICH MAXIMUM DROPPER POST LENGTH CAN I USE ON THE CRUSHER?

See table on section 3 of this manual.

WHICH TYPE OF MAINTENANCE OR SAFETY CHECKS DO MOTORS REQUIRE?

Absolutely none. Nor is it required to lubricate any parts in the drive unit nor disassemble it... All you have to do is taking care for it as a traditional mountain bike. It is important to mention, however, as a precaution applicable to any mountain bike: electronic parts and, specifically, the bottom bracket area of the drive unit should never be cleaned with any high-pressure cleaning machine. Therefore, it is not recommended to use high-pressure water jet to clean the cranks axle directly as the electronic parts of the drive unit can be seriously damaged.



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MANUELS ET DOCUMENTS



CONSIGNES GÉNÉRALES ET DE SÉCURITÉ

Veuillez noter que les 3 icônes suivantes peuvent apparaître dans ce guide technique. Chacune indique que vous devez prendre les précautions suivantes :

AVERTISSEMENT !

Le non-respect des indications ou la réalisation de pratiques dangereuses peut entraîner des blessures graves, voire la mort. Les tâches impliquent des difficultés techniques. Si elles sont mal réalisées, elles peuvent endommager votre vélo ou entraîner la nullité de la garantie.

ATTENTION

Le non-respect des indications ou la réalisation de pratiques dangereuses peut entraîner des blessures légères. Les tâches impliquent des difficultés techniques. Si elles sont mal réalisées, elles peuvent endommager votre vélo ou entraîner la nullité de la garantie.

INFORMATION

Information essentielle pour une bonne exécution de la tâche et, par conséquent, pour éviter tout dommage sur le vélo ou la perte de la garantie, mais qui ne comporte aucun risque pour le cycliste.

CONSIDÉRATIONS

- L'utilisation de pièces de rechange non originales peut entraîner des dommages, des dysfonctionnements et des accidents qui pourraient avoir des conséquences graves.
- Veuillez noter que pour effectuer certaines des étapes décrites dans ce manuel, des compétences supérieures à celles de l'utilisateur de vélo moyen sont requises. Si vous n'êtes pas qualifié pour réaliser l'une de ces étapes, adressez-vous à un service technique agréé Mondraker pour l'entretien et le remplacement de ses composants. L'installation incorrecte des pièces de rechange peut entraîner des dysfonctionnements, des accidents, des blessures et la nullité de la garantie.

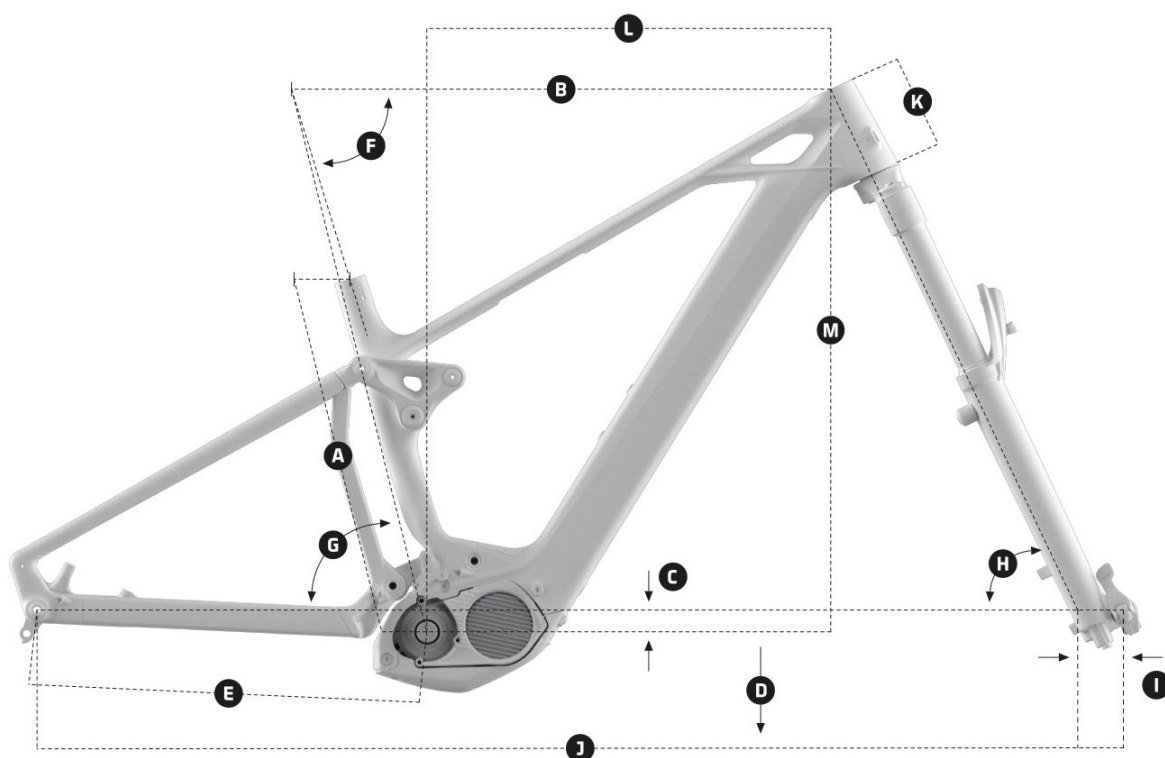
-  Pour plus de détails sur l'installation concernant les composants électriques, le moteur, l'écran et la télécommande, reportez-vous aux manuels Shimano. <https://si.shimano.com/#/>

NETTOYAGE ET ENTRETIEN

- Une fois les pièces démontées, il est recommandé de nettoyer, de graisser et d'appliquer du frein-filet (si nécessaire) sur les composants qui vont être réutilisés.



1. GÉOMÉTRIE



TAILLE	S	M	L	XL
A Longueur du tube de selle	380mm	420mm	450mm	490mm
B Longueur du tube supérieur	605mm	625mm	650mm	670mm
C Différence axe boîtier/axe moyeu	-25mm	-25mm	-25mm	-25mm
D Hauteur de pédalier	350mm	350mm	350mm	350mm
E Longueur des bases	455mm	455mm	455mm	455mm
F Angle de tube de selle	73.5°	73.5°	73.5°	73.5°
G Angle de tube de selle effectif	76.0°	76.0°	76.0°	76.0°
H Angle du tube de direction	65.0°	65.0°	65.0°	65.0°
I Déport de fourche	44mm	44mm	44mm	44mm
J Empattement	1236mm	1256mm	1285mm	1305mm
K Longueur du tube de direction	110mm	110mm	130mm	140mm
L Reach	450mm	470mm	490mm	510mm
M Stack	632mm	632mm	645mm	645mm



2. SPÉCIFICATIONS TECHNIQUES DU CADRE

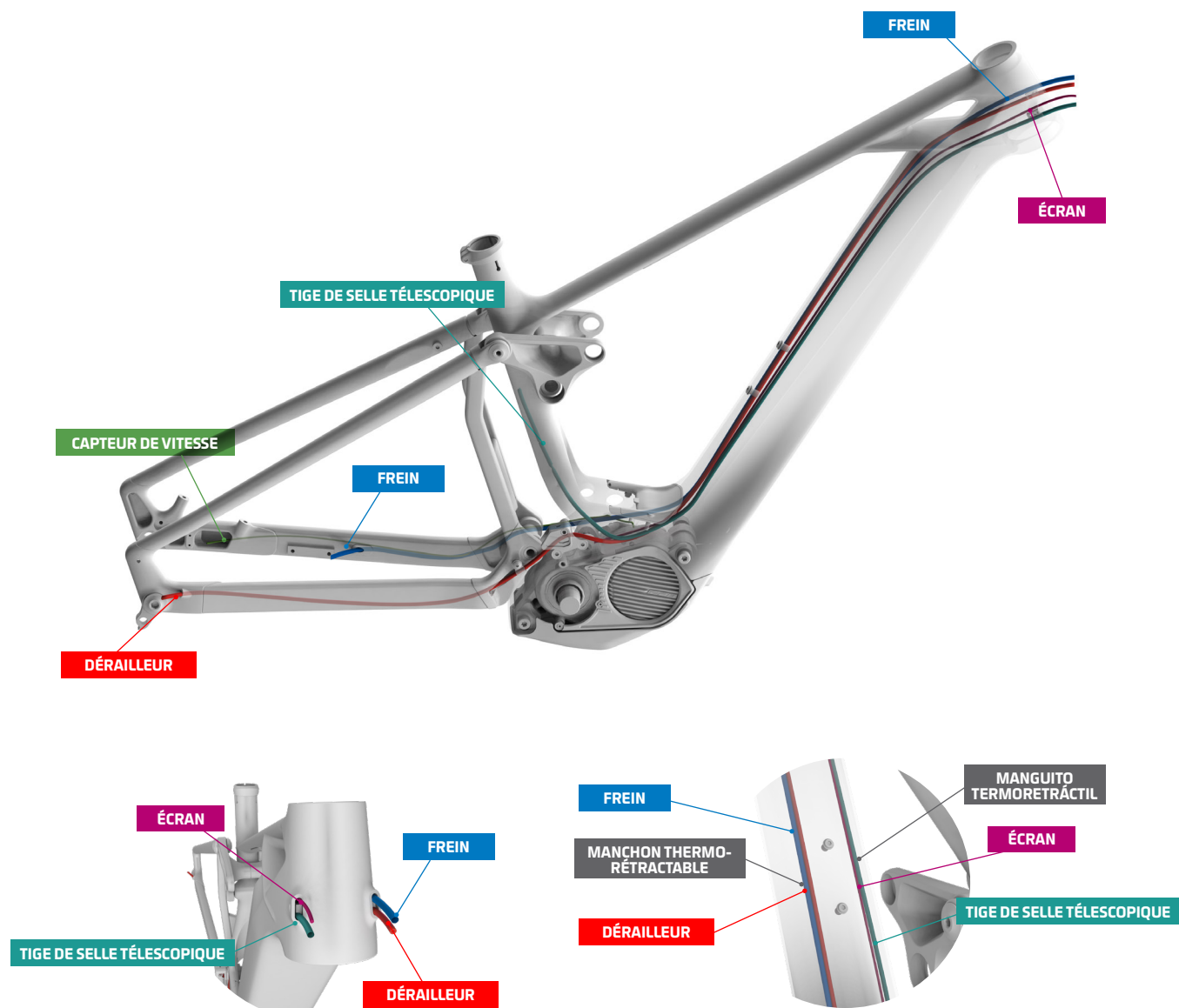
FRAME SIZES	S / M / L / XL
FRONT WHEEL SIZE	29"
FRONT HUB	110mm x 15mm
REAR WHEEL SIZE	29"
REAR HUB	148mm x 12mm (BOOST)
REAR AXLE	L180mm M12 PITCH 1.75, HEAD DIAMETER 19mm
TOTAL WATER BOTTLE / RANGE EXTENDERS MOUNTS	1 INTEGRATED FIDLOCK POCKET + 1 WATER BOTTLE CAGE MOUNT
MOTOR	Shimano ÉTAPES EP801
BOTTOM BRACKET	Shimano
BATTERY SIZE	720Wh
RANGE EXTENDER COMPATIBLE	YES, 500ml WATER BOTTLE SIZE
REAR TRAVEL	150mm
REAR SHOCK	205 x 65mm TRUNNION, 25 x 10mm BOTTOM BUSHINGS
FRONT TRAVEL	160mm, 170mm MAX
SEATPOST DIAMETER	31.6mm (37mm seatpost clamp)
CHAINLINE	55mm
HEADSET	UPPER: IS52 1 1/8", LOWER ZS56 BLOCKLOCK 1.5"
MAX CHAINRING	34T
REAR BRAKE	POST MOUNT, DIRECT 200mm
MAX REAR TIRE WIDTH	66mm, 29 x 2.6"

3. PROFONDEUR D'INSERTION TIGE DE SELLE



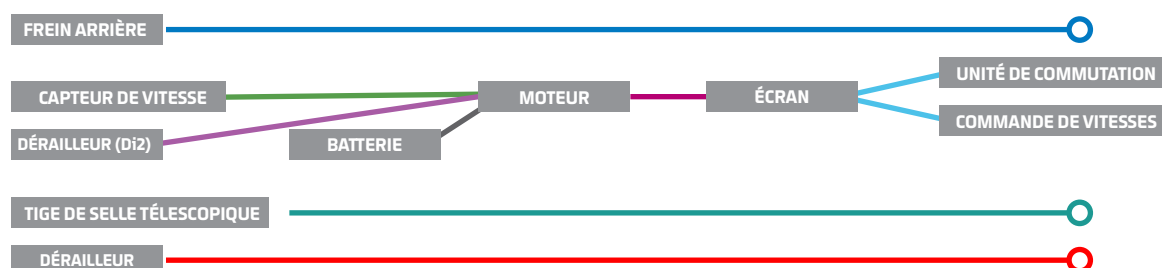
TAILLE DE CADRE	MIN. (mm)	MAX. (mm)
XL	100	285
L	100	245
M	100	215
S	100	175

4. ACHÈMINEMENT INTERNE



Les câbles traversent un manchon de câble interne.

5. SCHÉMA DE CONNEXION DU CÂBLE





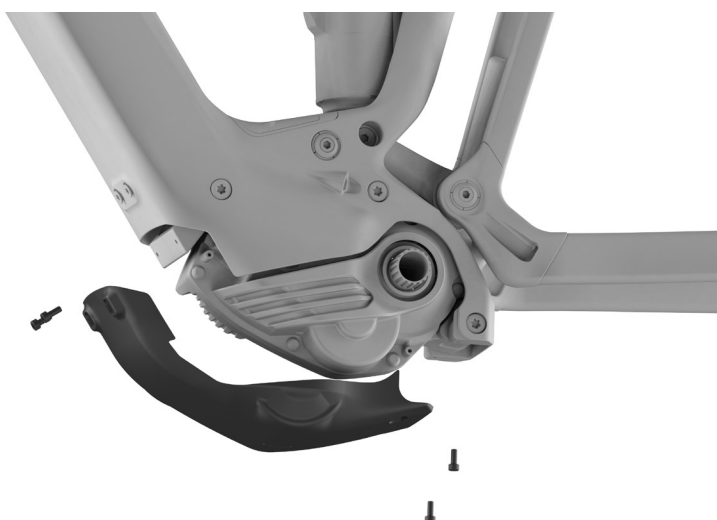
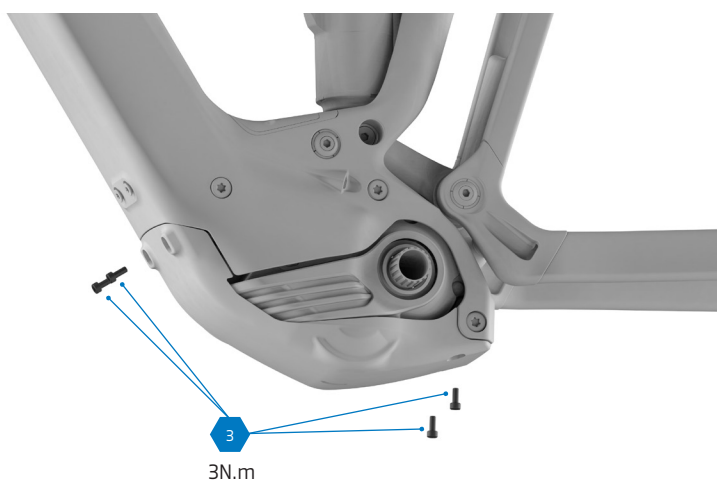
6. UNITÉ D'ENTRAÎNEMENT

6.1. RETIRER LE COUVERCLE



ÉTAPE 1

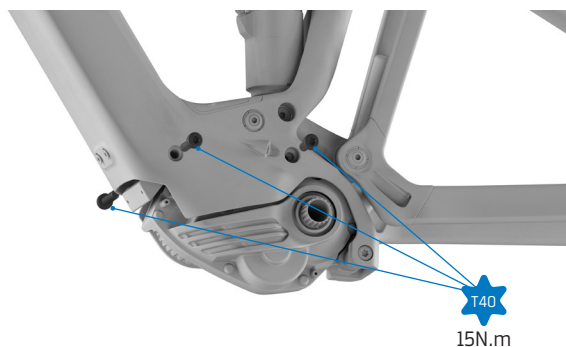
Dévissez 4 vis et retirez le couvercle.



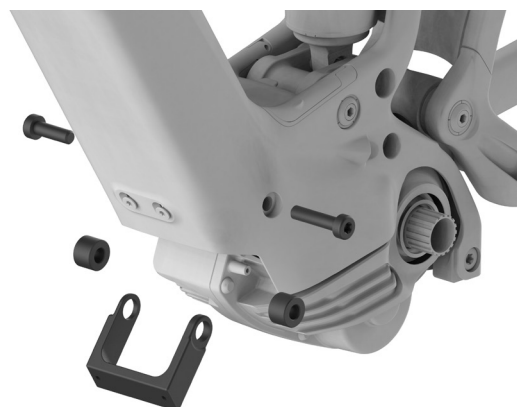
ÉTAPE 2

Retirez le couvercle.

6. 2. RETIREZ L'UNITÉ D'ENTRAÎNEMENT



ÉTAPE 1 Dévissez 4 vis et retirez le support du moteur.



ÉTAPE 2 Tournez légèrement le moteur et débranchez les connexions



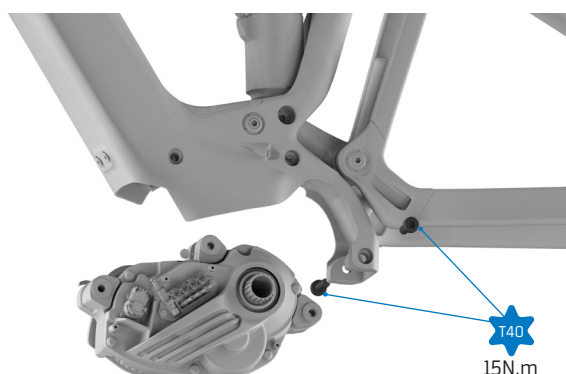
DÉBRANCHEZ



Utilisez toujours l'outil Shimano TL-EW300 pour brancher et débrancher les câbles dans les connexions. Les câbles sont extrêmement fragiles, et ne pas utiliser le bon outil cassera le câble. Pour plus d'informations, reportez-vous aux manuels Shimano. <https://si.shimano.com/#/>



Assurez-vous de bien fixer des fiches factices sur tous les ports E-TUBE non utilisés.

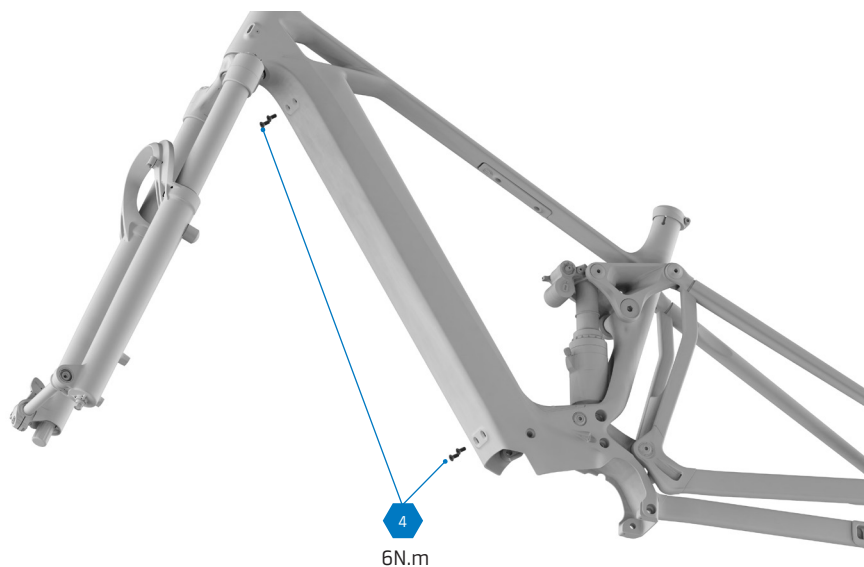


ÉTAPE 3 Dévissez 2 vis et retirez le moteur

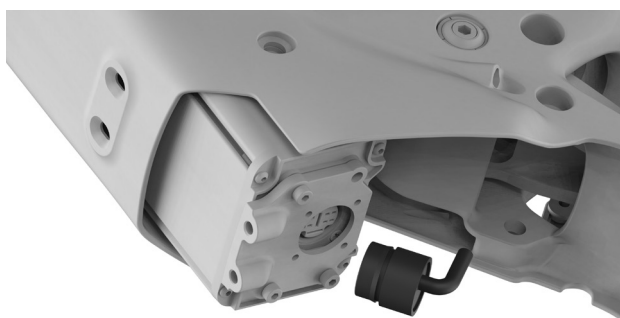


7. DÉMONTAGE DE LA BATTERIE

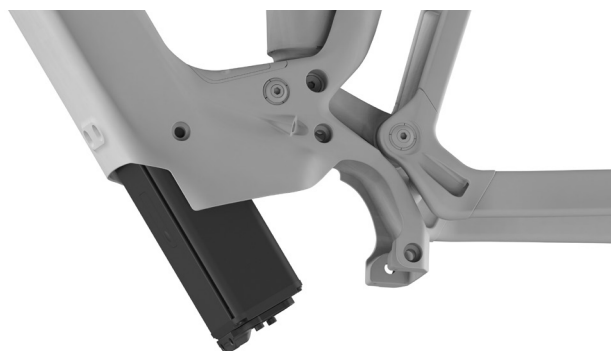
Suivre les étapes 6.1 et 6.2



ÉTAPE1 Dévissez 4 vis



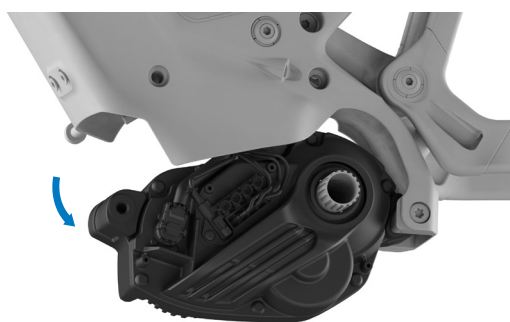
ÉTAPE2 Débrancher la connexion.



ÉTAPE3 Retirer la batterie.

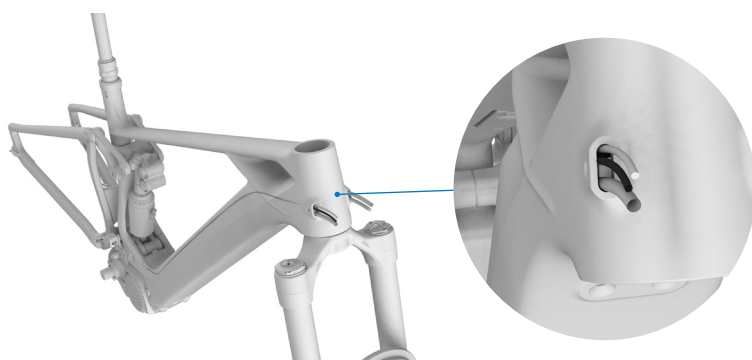
8. CONNECTER UNE LAMPE (EN OPTION)

-  Ce vélo est livré avec un port de connexion pour un éclairage avant et arrière en option
-  Utilisez toujours l'outil Shimano TL-EW300 pour brancher et débrancher les câbles dans les connexions. Les câbles sont extrêmement fragiles, et ne pas utiliser le bon outil cassera le câble.
-  Pour plus d'informations concernant les connexions, reportez-vous aux manuels Shimano.
<https://si.shimano.com/#/>



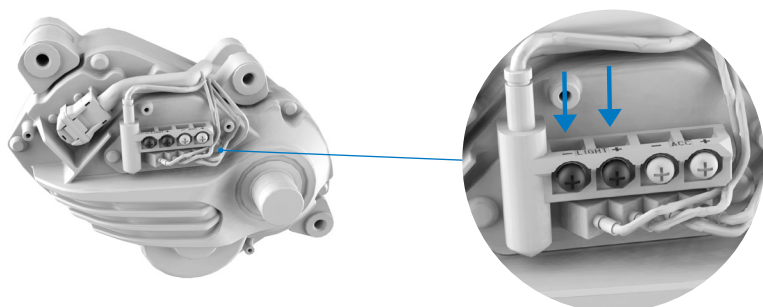
ÉTAPE 0

Suivre les étapes 6.1 et 6.2 pour laisser l'unité d'entraînement avec les connecteurs accessibles.



ÉTAPE 1

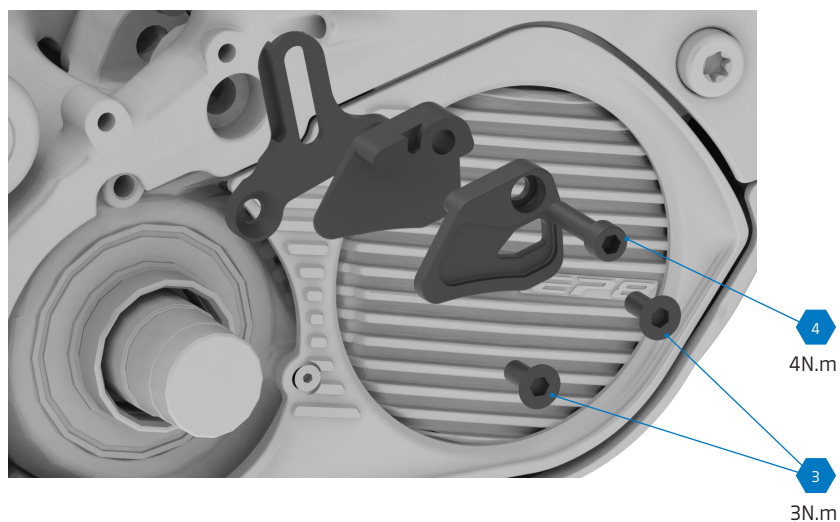
Faites passer le câble de la lampe à travers le trou d'entrée supérieur droit.



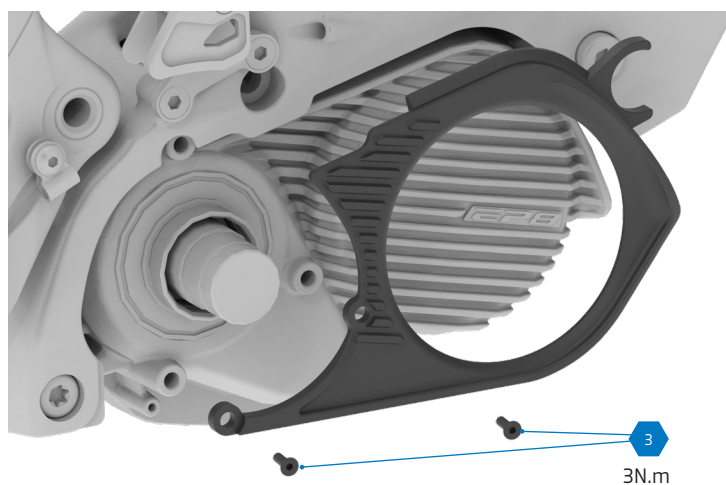
ÉTAPE 2

Connectez les fils connectés à la lampe avant à l'unité d'entraînement en suivant les instructions de Shimano.
<https://si.shimano.com/#/>

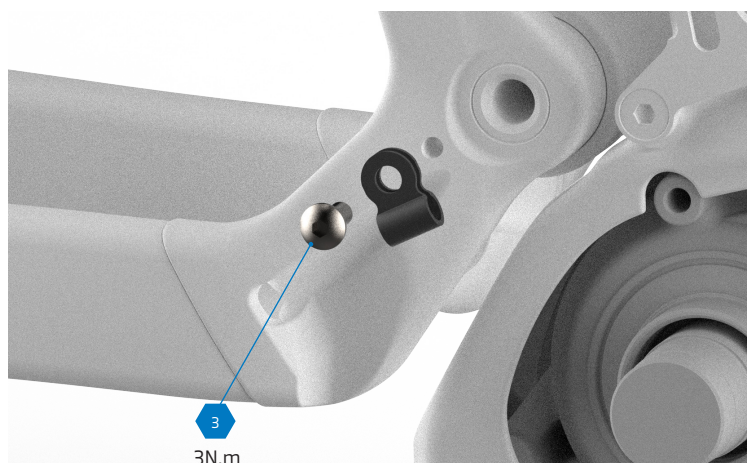
9. GUIDE-CHAÎNE



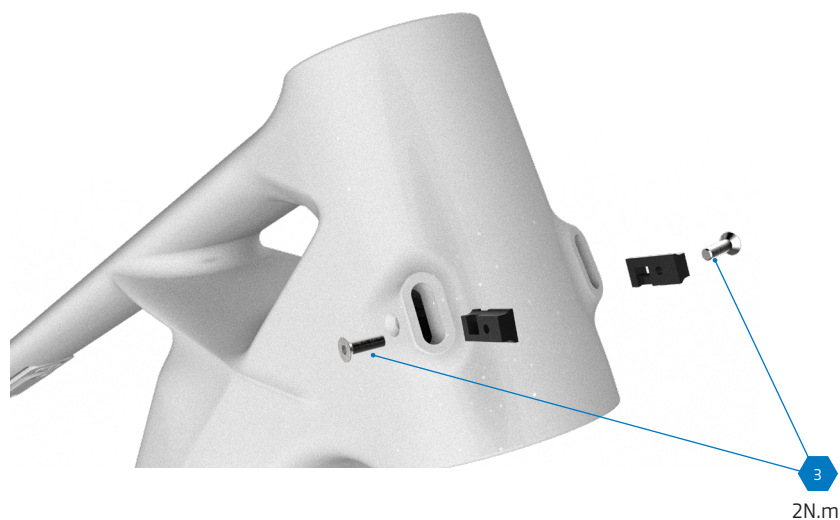
10. COUVERCLE CÔTÉ DROIT DU MOTEUR



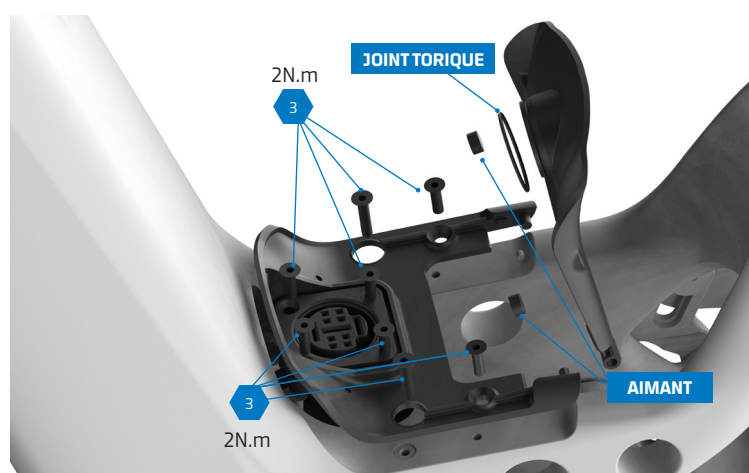
11. GUIDE D'ACHEMINEMENT DU CÂBLE



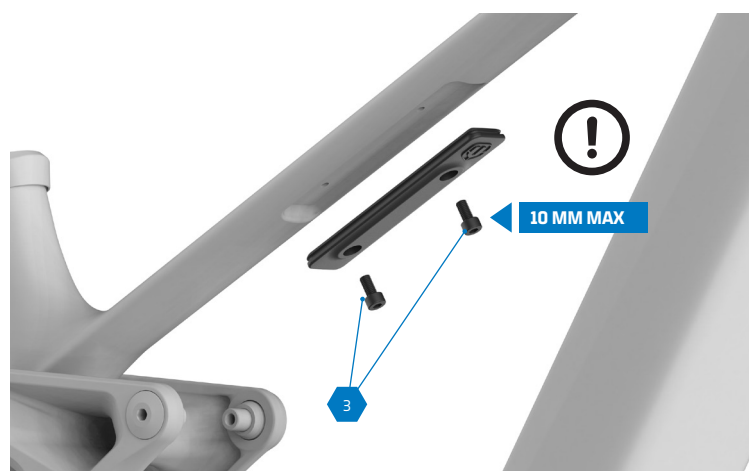
12. ENTRÉE D'ACHEMINEMENT INTERNE



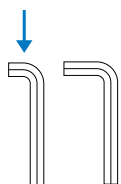
13. COUVERCLE DU PORT DE CHARGE



14. COUVERCLE FIDLOCK



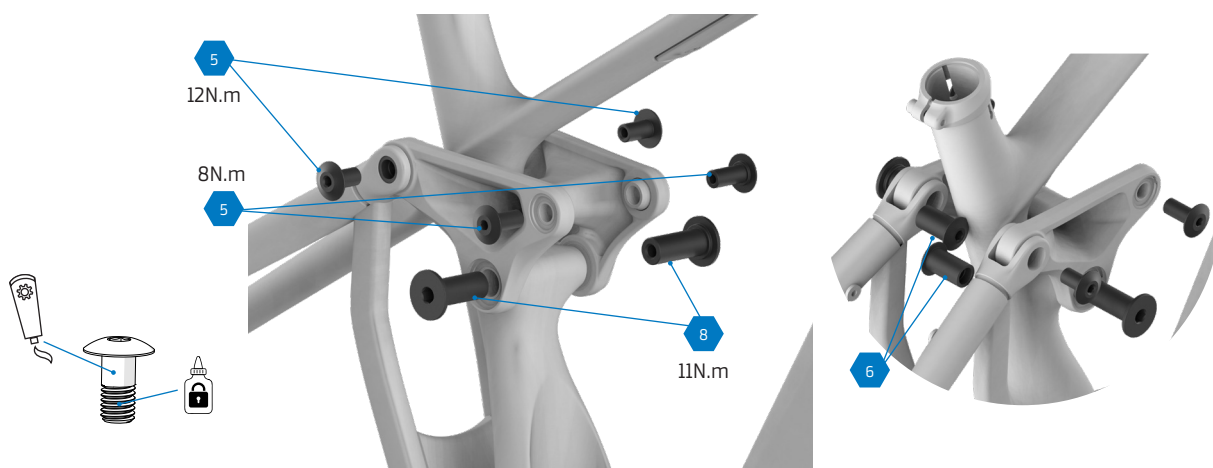
15. GUIDE D'INSTALLATION DE LA BIELLETTE SUPÉRIEURE



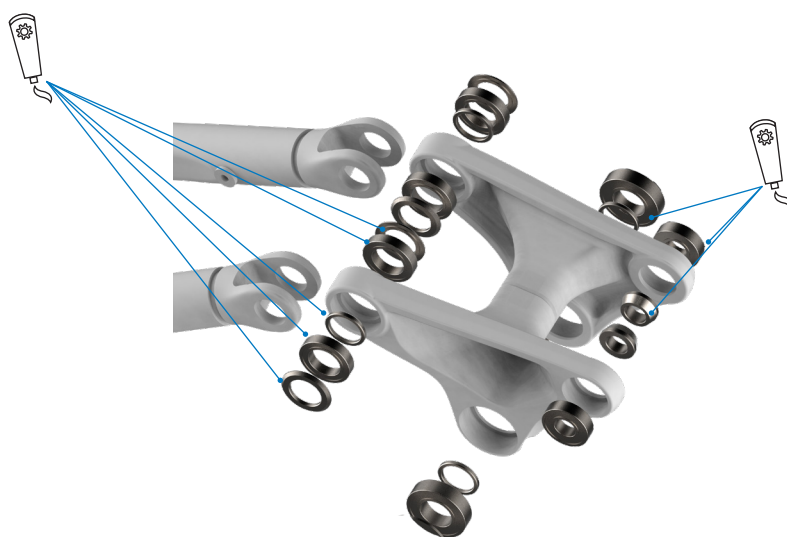
Pour atteindre les boulons du triangle arrière, retirez l'amortisseur ou utilisez un jeu de clés hexagonales courtes.



Pour retirer l'amortisseur arrière, libérez d'abord toute pression d'air.



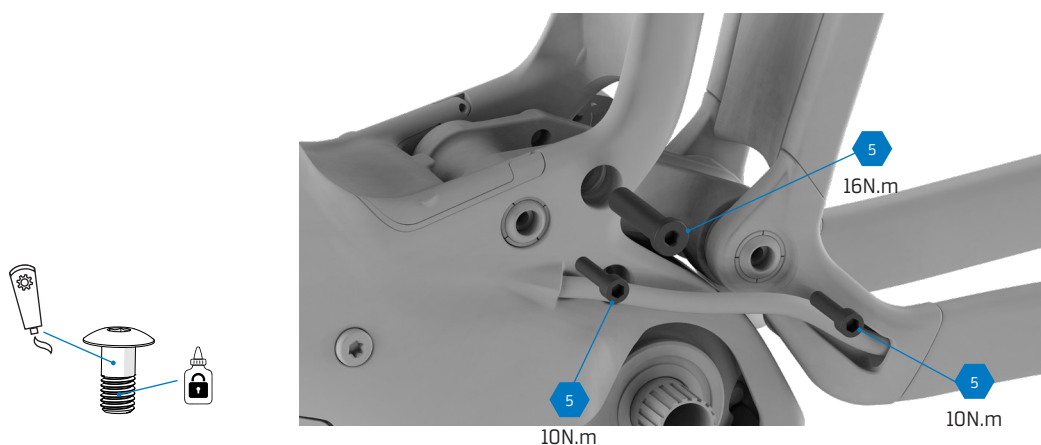
Pour les boulons principaux, appliquez de la graisse sur l'arbre et du Loctite 243 ou similaire sur les filetages.



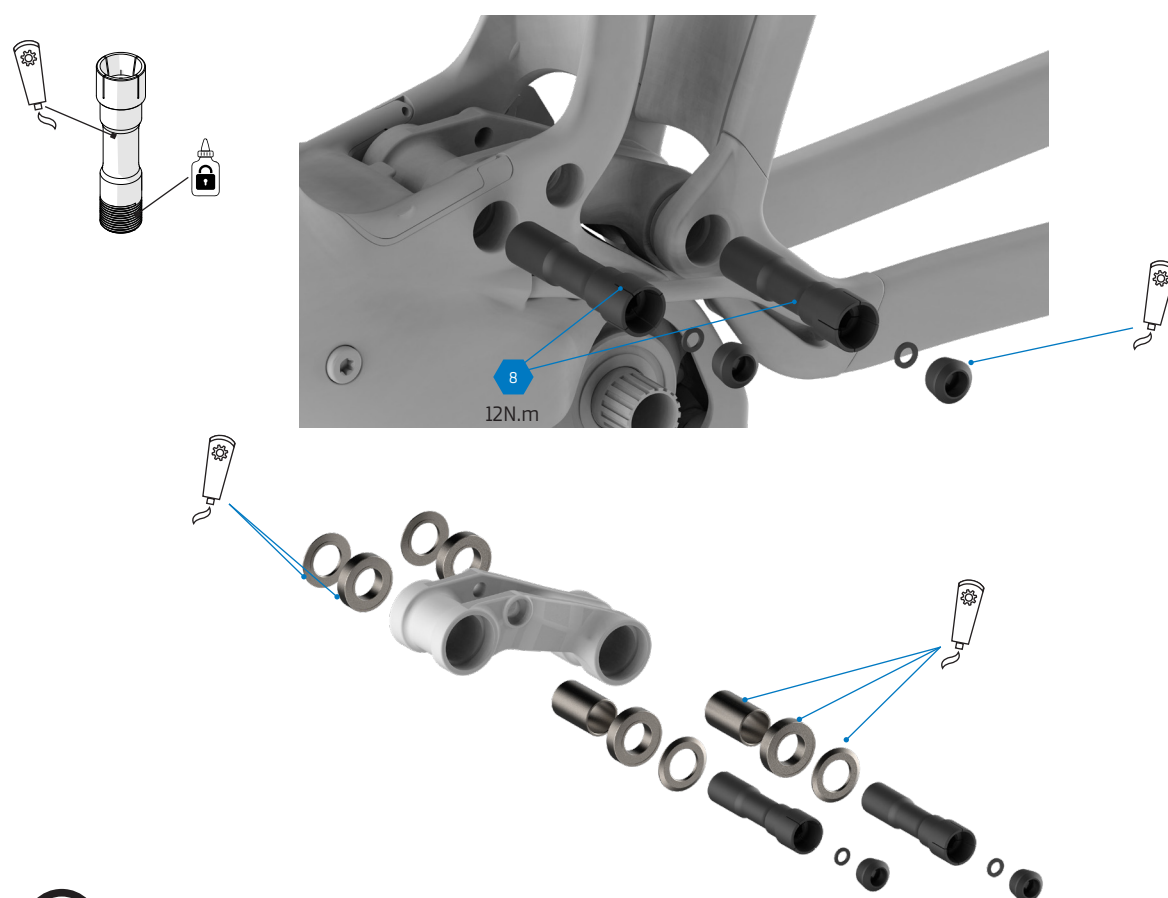
Appliquez de la graisse sur tous les roulements et entretoises.



16. GUIDE D'INSTALLATION DE LA BIELLETTE INFÉRIURE



❗ Pour les boulons principaux, appliquez de la graisse sur l'arbre et du Loctite 243 ou similaire sur les filetages.



❗ Appliquez de la graisse sur tous les roulements et entretoises.

17. UNITÉ DE COMMUTATION

La télécommande Shimano SW-EN600-L a les fonctions suivantes.

Bouton d'alimentation



Bouton d'éclairage

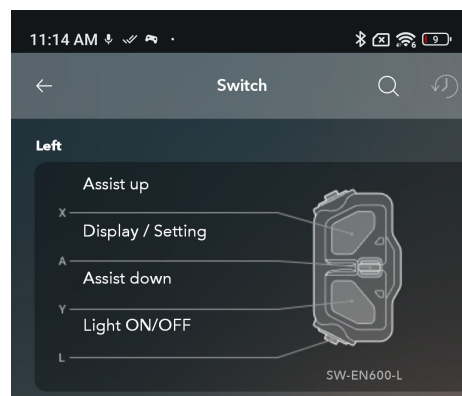
Bouton d'assistance
haut

Niveau de
batterie LED

Défilement de
l'écran

Mode d'assistance
LED

Mode de marche du bouton
d'assistance bas (pression longue)



18. RÉGLAGE FIN DU DÉRAILLEUR ARRIÈRE

1. Allumez votre vélo.
2. Mettez le dérailleur arrière sur la 5ème position du pignon.
3. Accédez au menu Réglage par pression longue sur le bouton de défilement de l'écran.
4. Accédez à Réglage > Ajuster
5. Tout en faisant tourner le plateau avant, utilisez les leviers de changement de vitesse pour effectuer le réglage fin du dérailleur.
6. Confirmez les réglages et quittez le menu Réglage.



19. CONNECTIVITÉ

19.1. APPAIRAGE DE VOTRE SMARTPHONE

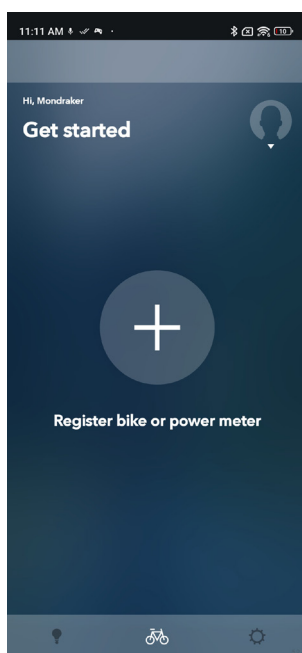


Avant la première course, il est recommandé de charger complètement votre vélo.

Avec l'application pour smartphone E-TUBE PROJECT Cyclist, vous pourrez personnaliser les paramètres de votre Mondraker Crusher et effectuer des tâches de maintenance.

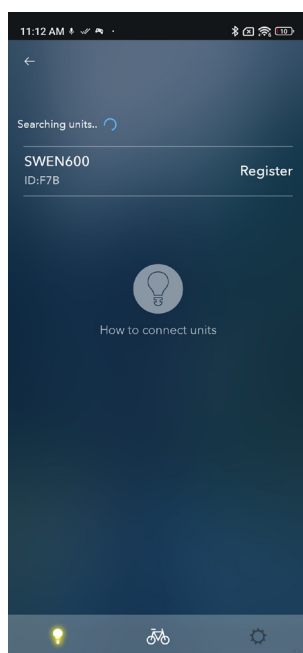
Un manuel d'utilisation plus détaillé est disponible sur le site Web de Shimano. Recherchez E-TUBE PROJECT Cyclist pour télécharger la dernière version.

ÉTAPE 1



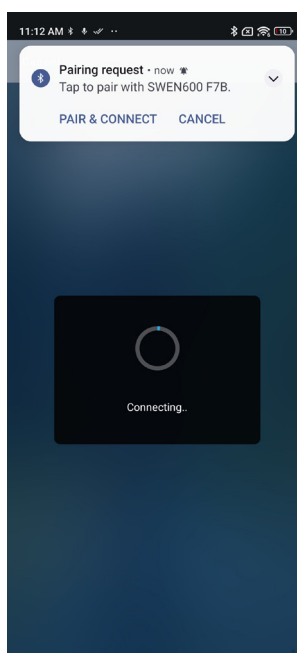
Appuyez sur l'icône + et alimentez votre vélo.

ÉTAPE 2



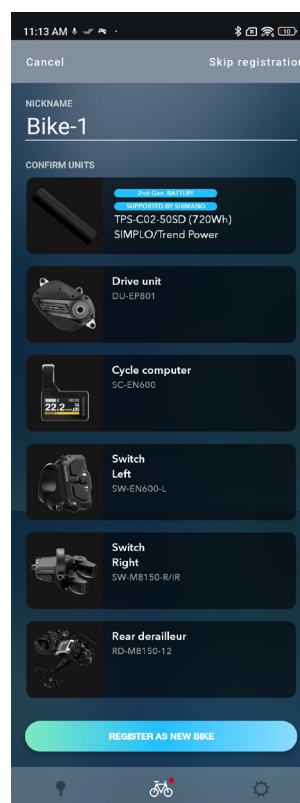
Sélectionnez-le sur la liste.

ÉTAPE 3



Autoriser les connexions.

ÉTAPE 4





19.2. APPAIRAGE DE VOTRE ORDINATEUR GPS

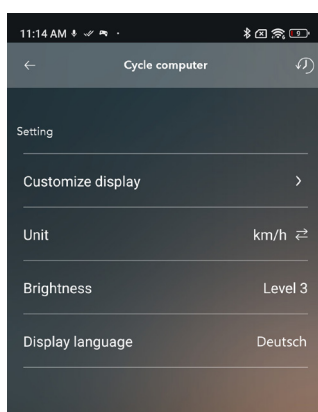
1. Pour connecter votre vélo à un ordinateur GPS de vélo, vous devez d'abord allumer votre vélo.
2. Allumez votre unité appareil GPS et sélectionnez dans le menu « Ajouter des capteurs » > « Rechercher tout ».
3. Sélectionnez sur le capteur « Shimano STEPS ».
4. Votre ordinateur de vélo est maintenant appairé à votre Mondraker Crusher !



20. RÉGLAGES

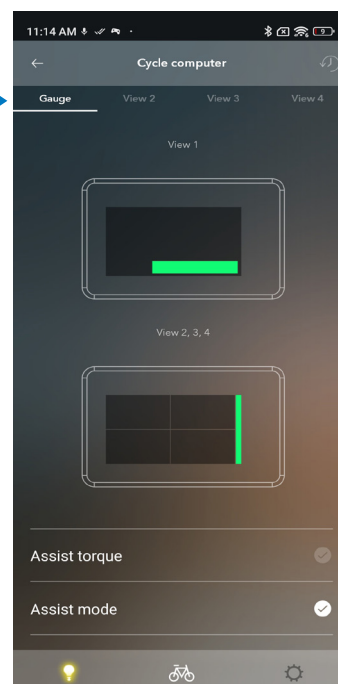
20.1. MODIFIER LA LANGUE, LES INFORMATIONS ET LES UNITÉS DE L'ÉCRAN

1. Allumez votre vélo et connectez-le à votre smartphone.
2. Appuyez sur votre vélo précédemment enregistré.
3. Sélectionnez le menu PERSONNALISER
4. Faites défiler vers le bas et sélectionnez Cycle Computer (ordinateur de vélo)
5. Sélectionnez les unités, la luminosité de l'écran et la langue souhaitées.



ÉTAPE 5

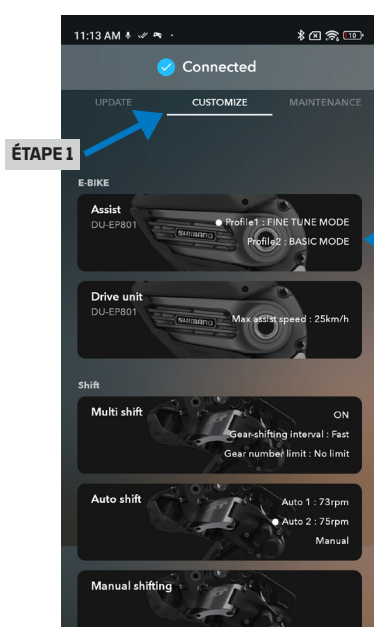
Vous pouvez personnaliser les données d'affichage toutes les 4 pages.



20. 2. CONFIGUREZ LES MODES ET PROFILS D'ASSISTANCE.

Shimano donne la possibilité de personnaliser l'entrée de puissance par l'unité d'entraînement, ce qui permet à l'utilisateur de créer différents modes d'assistance et 2 profils.

1. Sélectionnez le menu CUSTOMIZE
2. Appuyez sur « Assist »
3. Configurez chaque profil
4. Appuyez sur Apply pour enregistrer les modifications et les envoyer à votre vélo.



ÉTAPE 2



ÉTAPE 3

Le premier profil a un mode multiassistance par défaut. Vous pouvez modifier le nombre de niveaux de 3 à 15 et l'intensité de chaque ligne individuellement.

Dans un profil, vous pouvez enregistrer différentes configurations, mais une seule sera chargée sur votre vélo.

Le deuxième profil a un mode d'assistance de base. Vous pouvez modifier l'intensité des 3 niveaux.

Lors de l'application, le Profil 1 et le Profil 2 seront chargés sur votre vélo.

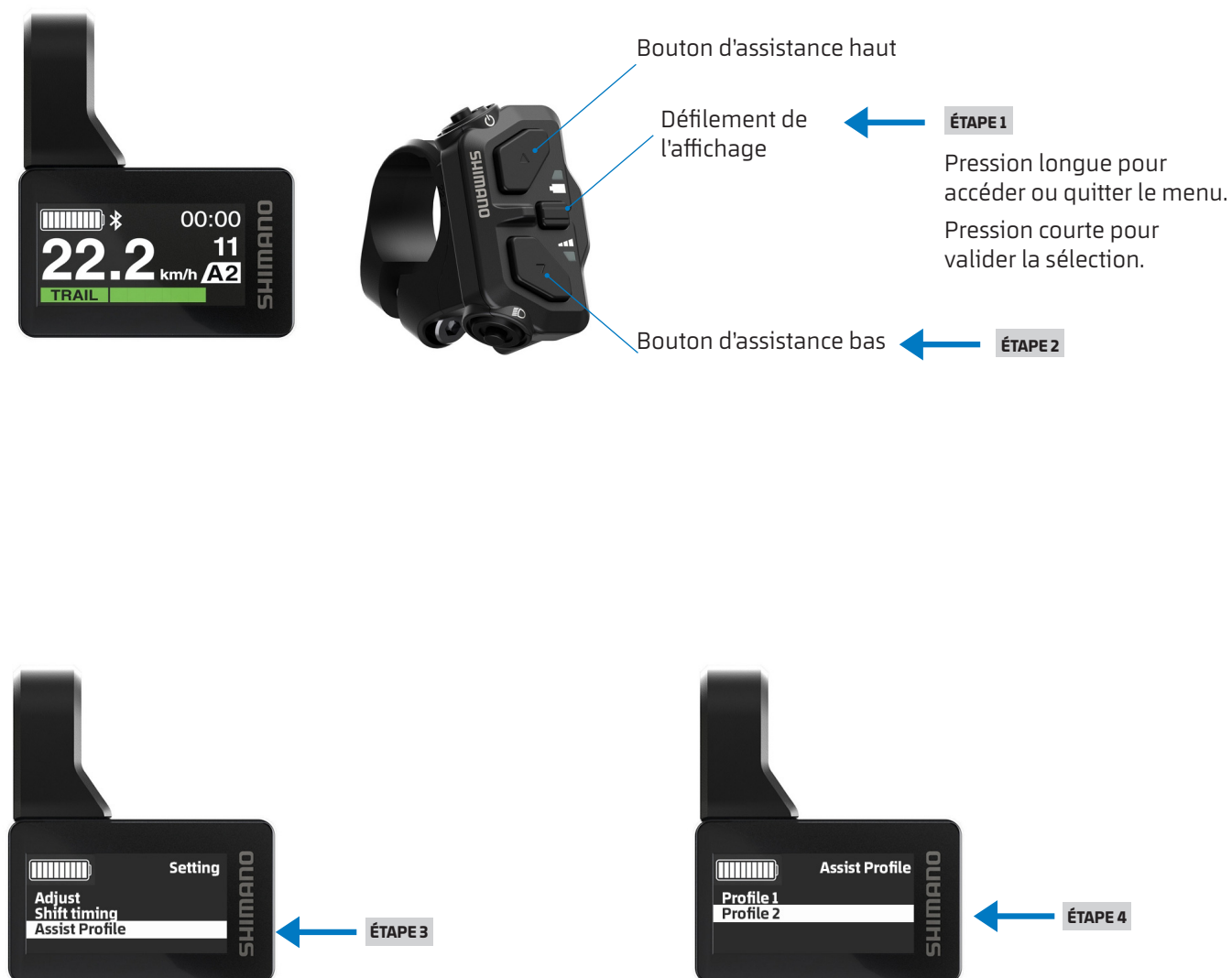


20.3. PASSER D'UN PROFIL À L'AUTRE

Une fois les profils chargés, vous pouvez choisir sur votre vélo de rouler sur le Profil 1 ou le Profil 2.

Pour les sélectionner :

1. Allumez votre vélo.
2. Accédez au menu Réglage par pression longue sur le bouton de défilement de l'écran.
3. Accédez au mode d'assistance en appuyant 8 fois sur le bouton vers le bas.
4. Accédez au mode d'assistance en appuyant sur le mode d'affichage.
5. Choisissez entre les profils et appuyez sur le bouton d'affichage pour valider la sélection.





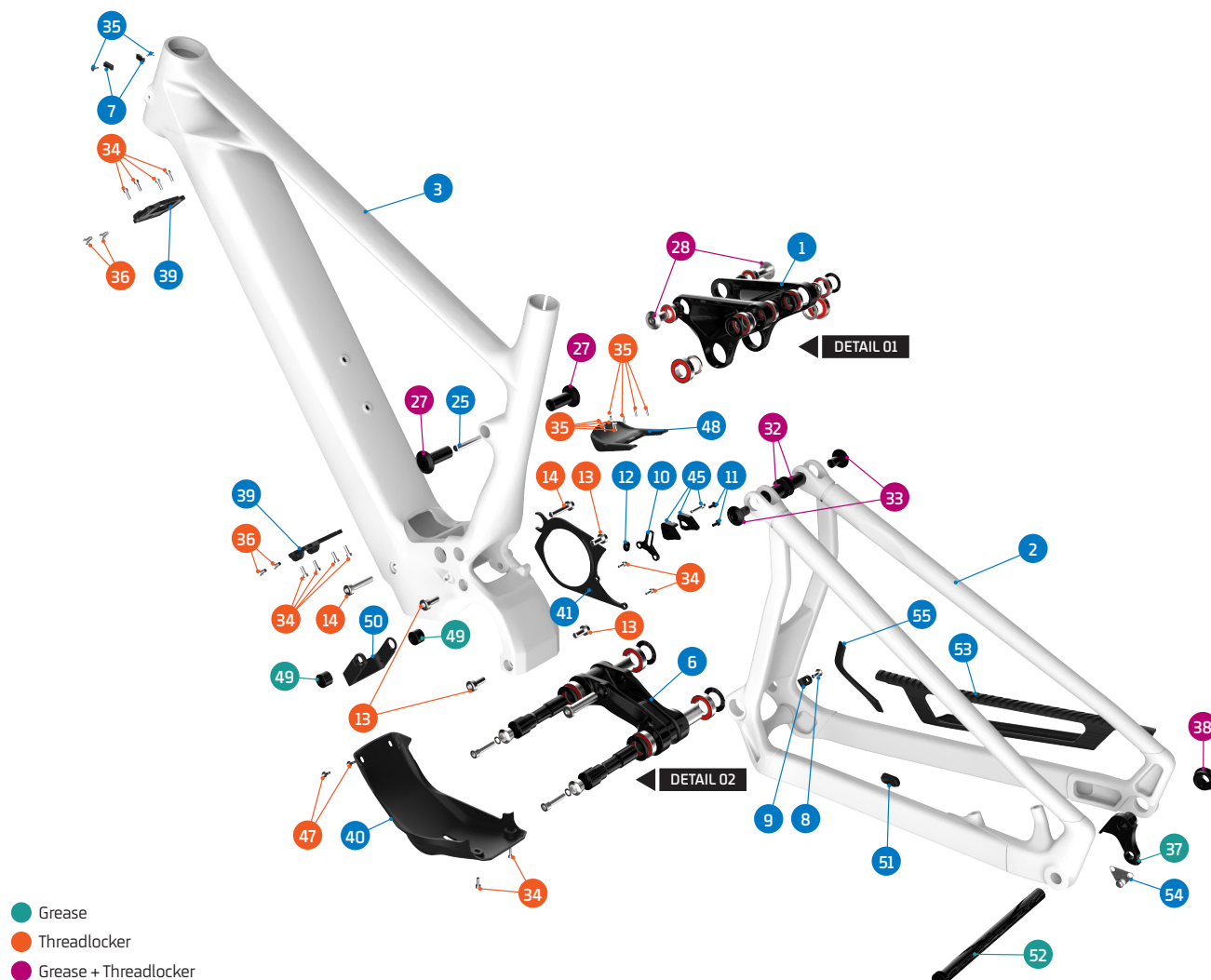
21. CHANGEMENT DE VITESSE AUTOMATIQUE

En appuyant sur le bouton Shift Mode, vous passerez du mode manuel à Auto 1 et Auto 2.





22. SPARE PARTS



● Grease

● Threadlocker

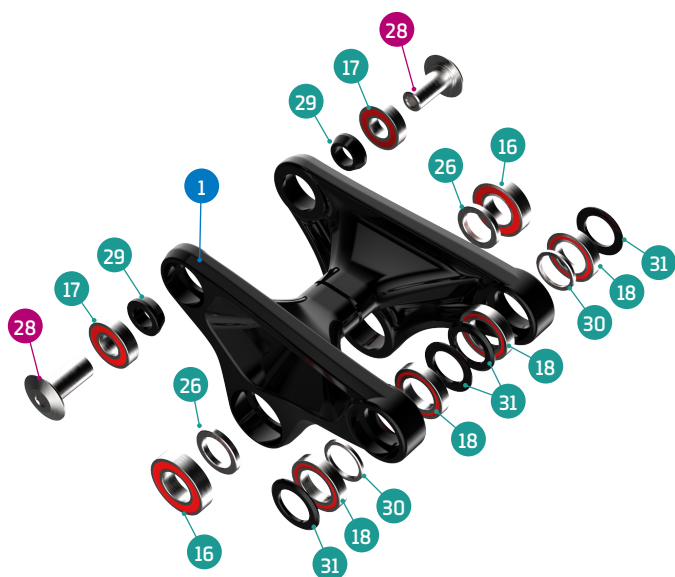
● Grease + Threadlocker

Apply grease to the shaft, and locker to the threads

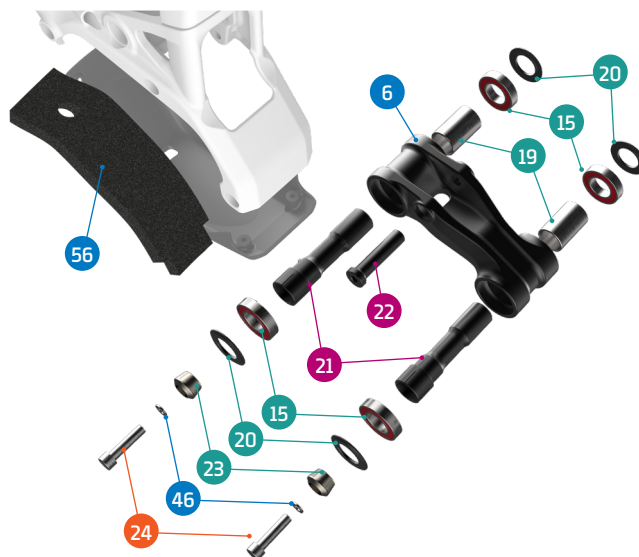
ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
1	UPPER LINK	1	099.20039	
2	REAR TRIANGLE	1		
3	FRONT TRIANGLE	1		
6	LOWER LINK	1	099.20040	
7	HEADTUBE CABLE CLAMP	2	SET 6	
8	BOLT M5x12L-R11F	1		3Nm
9	RT CABLE GUIDE	1	099.22064	
10	CHAINGUIDE SLIDING MOUNT	1	SET 10	
11	CHAINGUIDE SCREW M5x12L	2	SET 10	3Nm
12	CHAINGUIDE SLIDING NUT	1	SET 10	
13	MOTOR BOLT 18MM	4	SET 8	15Nm
14	MOTOR BOLT 36MM	2	SET 8	15Nm
15	BEARING 30x17x7	4	SET 1	
16	BEARING 28x15x7	2	SET 1	
17	BEARING 22x10x6	2	SET 1	
18	BEARING 24x15x5	4	SET 1	
19	LOWER LINK SPACER 22x17x30L	2	SET 4	
20	LOWER LINK SHIELD 27x15x2	4	SET 4	
21	LOWER LINK COLLET BOLT	2	SET 4	12Nm
22	LOWER SHOCK BOLT	1	099.21012 / SET 2	16Nm
23	TAPER NUT	2	SET 4	
24	BOLT M6x25L-P11M	2	SET 4	10Nm
25	UPPER LINK THREADED	1	SET 3	
26	BEARING SPACER 22x15x3	2	SET 3	
27	UPPER LINK SEATTUBE AXLE	2	SET 3	11Nm
28	UPPER SHOCK BOLT	2	SET 2	8Nm

ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
29	SHOCK SPACER 17x10x6	2	SET 2	
30	BEARING SPACER 19x15x2	2	SET 3	
31	BEARING SPACER 24x15x2	4	SET 3	
32	UPPER LINK RT BOLT	2	SET 3	
33	UPPER LINK RT BOLT	2	SET 3	12Nm
34	BOLT M5x10L-P-S	12		3Nm
35	BOLT M3x10L-M-S	10	SET 6	2Nm
36	BATTERY BRACKET SCREW	4	SET 9	6Nm
37	HANGER	1	SET 5	
38	HANGER NUT	1	SET 5	4Nm
39	SIMPLO 720 Wh BRACKET	2	099.24056	
40	EP801 LOWER MOTOR COVER	1	099.23050	
41	EP801 RIGHT SIDE MOTOR COVER	1	099.24005	
45	CHAIN GUIDE BOLT	1	099.20010A	4Nm
46	COLLET WASHER SPACER	2	SET 4	
47	LOW PROFILE BOLT	2	099.24007	3Nm
48	CHARGING PORT COVER	1	099.24006	
49	MOTOR SPACER	2	SET 7	
50	MOTOR BRACKET	1	SET 7	
51	GROMMET	1	989.13010	
52	REAR AXLE 12x148 P1.75 L180	1	112.90022	
53	CHAIN PROTECTOR	1	099.20017	
54	ROTOR MAGNET SPEED SENSOR	1	124.20401	
55	YOKE PROTECTOR	1	099.20056	
56	SPONGE MOTOR PROTECTOR	1	099.20086	

DETAIL 01

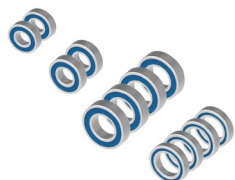


DETAIL 02



SET 1

ZERO BEARING KIT 20



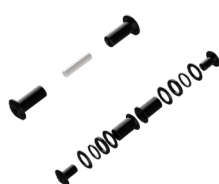
SET 2

SHOCK HARDWARE KIT 13



SET 3

UPPER LINK KIT 26



SET 4

LOWER LINK KIT 24



SET 5

HANGER M068 + NUT



PART NUMBER	DESCRIPTION	COMPONENTS
099.20101	SET 1: ZERO BEARING KIT 20	BEARING 6903V-2RS, 30x17x7 (x4) / BEARING 6802V-2RS, 24x15x5 (x 4) / BEARING 6902V-2RS, 28x15x7 (x2) / BEARING 6900V-2RS, 10x22x6 (x2)
099.20201	SET 2: SHOCK HARDWARE KIT 13	SHOCK BOLT (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x1)
099.20301	SET 3: UPPER LINK KIT 26	SPACER, 15x19x21 (x2) / SPACER, 15x24x2 (x4) / M8 THREAD AXLE (x1) / LINK AXLE (x2) / PIVOT AXLE, 26MM (x2) / PIVOT AXLE, M12 (x2) / SPACER, 15x22x3 (x2)
099.20401	SET 4: LOWER LINK KIT 24	TAPER NUT (x2) / SPACER (x2) / SCREW BOLT (x2) / SPACER, 15x27x2 (x4) / MAIN PIVOT AXLE, 17X60 (x2) / SPACER, 17x22x30L (x2)
099.00055	SET 5: HANGER M068 + NUT	HANGER (x1), HANGER NUT (x1)
099.24001	SET 6: GUIJA CABLE KIT CRUSHER	HEADTUBE INTERNAL CABLE CLAMP (x2) / SCREW BOLT (x2)
099.24002	SET 7: MOTOR SPACERS & BRACKET SET	MOTOR MOUNT FRONT BOLT SPACER (x2) / SKID PLATE MOUNTING BRACKET (x1)
099.24003	SET 8: MOTOR BOLTS SET	MOTOR MOUNTING BOLT, 18MM (x4) / MOTOR MOUNTING BOLT, 36MM (x2)
099.24004	SET 9: BATTERY BOLTS SET	BATTERY BRACKET FIXING SCREW (x4)
099.20081	SET 10: CHAIN GUIDE PLATE + BOTLS	CHAINGUIDE SLIDING MOUNT (x1) / CHAINGUIDE MOUNTING SCREW CSUNK (x2) / CHAINGUIDE SLIDING NUT (x1)



23. FAQ

QUELS AMORTISSEURS SONT COMPATIBLES AVEC CRUSHER ?

Le Crusher est compatible avec tous les amortisseurs à ressorts hélicoïdaux, pneumatiques, en ligne ou combinés tels que le stock Fox Flot, Flot DES, Flot X, Flot DPX2, RockShox Deluxe, Vivid, Super Deluxe Air ou Coil ainsi que Flot X2, DHX2 ou Öhlins TTX Air ou TTX22. Le Crusher est équipé d'amortisseurs métriques de 205 x 65 mm avec montage supérieur Trunnion et matériel inférieur de 25 x 10 mm.

QUELLE EST LA CHASSE DE FOURCHE MAXIMALE QUE JE PEUX UTILISER SUR CRUSHER ?

Crusher est compatible avec des fourches jusqu'à 170 mm de chasse.

EN QUOI LE CADRE CRUSHER DIFFÈRE-T-IL DU CRAFTY CARBON ?

La géométrie, la cinématique de la suspension et la chasse sont toutes les mêmes, mais Crusher utilise un bras oscillant arrière en aluminium et non pas en carbone comme le Crafty Carbon.

EST-IL POSSIBLE DE MONTER UN PROLONGATEUR D'AUTONOMIE SUR LE CADRE ?

Le Crusher n'a pas de supports spécifiques pour prolongateur d'autonomie, et il n'est donc pas possible d'en installer un.

PUIS-JE APPORTER DES MODIFICATIONS AU VÉLO, COMME LES COURONNES OU LES PNEUS, PAR EXEMPLE ?

Les vélos sont montés manuellement à notre siège social Mondraker, et les paramètres techniques et la programmation de chaque vélo sont également définis par nous-mêmes en vue de garantir leur performance parfaite et toutes les homologations pertinentes. La taille des roues et des pneus, le nombre de vitesses et les différents nombres de pignons, etc., sont définis dans le programme de réglage de chaque vélo pour obtenir de bonnes performances. Toute modification ou mise à jour du micrologiciel du système doit être effectuée par un concessionnaire officiel Mondraker.

EST-IL POSSIBLE DE RETIRER LA BATTERIE DU CRUSHER ?

Le Crusher est axé sur les performances pures et conçu avec le poids le plus léger possible de sorte que la batterie est interne et non amovible. Pour charger la batterie, vous devez brancher le chargeur directement sur le port de batterie sous le tube principal. Si l'était nécessaire de retirer la batterie, n'importe quel concessionnaire Mondraker sera en mesure de le faire en retirant d'abord le moteur.

COMBIEN DE TEMPS FAUT-IL POUR CHARGER COMPLÈTEMENT LA BATTERIE ?

Si la batterie est à 0 %, avec le chargeur d'origine, il faut environ 5 heures pour charger complètement la batterie à 100 %.

QUELLE TAILLE DOIS-JE ACHETER ?

Les tailles diffèrent d'un rider à l'autre. Les préférences personnelles sont très spécifiques, et la façon dont vous maniez votre vélo est également à tenir en compte dans le choix de la taille appropriée. Voici un tableau des tailles standard que vous pouvez utiliser comme indicateur :

S 1.58 - 1.68

M 1.67 - 1.76

L 1.75 - 1.86

XL 1.85 - 1.95

QUELLE LONGUEUR MAXIMALE DE TIGE TÉLESCOPIQUE PUIS-JE UTILISER SUR LE CRUSHER ?

Reportez-vous au tableau de la section 3 de ce manuel.

DE QUEL TYPE DE MAINTENANCE OU DE CONTRÔLES DE SÉCURITÉ LES MOTEURS ONT-ILS BESOIN ?

Absolument aucun. Il n'est pas nécessaire non plus de lubrifier les pièces de l'unité d'entraînement ni de le démonter... Il vous suffit de l'entretenir comme un VTT traditionnel. Il est toutefois important de mentionner, à titre de précaution applicable à tout VTT, que les parties électroniques et, plus précisément, la zone du boîtier du pédalier de l'unité d'entraînement, ne doivent jamais être nettoyées avec une machine haute pression. Par conséquent, il n'est pas recommandé d'utiliser un jet d'eau sous pression pour nettoyer directement l'essieu des manivelles, car cela pourrait endommager gravement les parties électroniques de l'unité d'entraînement.



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ANLEITUNGEN UND DOKUMENTE



SICHERHEITS- UND ALLGEMEINE HINWEISE

Bitte beachten Sie, dass in diesem technischen Leitfaden die folgenden drei Symbole erscheinen können. Sie weisen jeweils auf die folgenden Vorsichtsmaßnahmen hin:

WARNUNG!

Die Nichtbeachtung dieser Hinweise oder die Durchführung unsicherer Praktiken kann zu schweren Verletzungen oder sogar zum Tod führen. Die Arbeiten sind technisch anspruchsvoll und können bei fehlerhafter Ausführung zu Schäden am Fahrrad oder zum Erlöschen der Garantie führen.

VORSICHT

Die Nichtbeachtung dieser Hinweise oder die Durchführung unsicherer Praktiken kann zu leichten Verletzungen führen. Die Arbeiten sind technisch anspruchsvoll und können bei fehlerhafter Ausführung zu Schäden am Fahrrad oder zum Erlöschen der Garantie führen.

INFORMATION

Informationen, die für eine ordnungsgemäße Ausführung der Arbeit wichtig sind und daher mögliche Schäden an Ihrem Fahrrad oder den Verlust der Garantie verhindern. Hier besteht jedoch kein Risiko für den Fahrer.

WICHTIGE HINWEISE

- Die Verwendung von nicht originalen Ersatzteilen kann zu Schäden, Fehlfunktionen und Unfällen mit schweren Folgen führen.
- Bitte beachten Sie, dass für einige der in diesem Handbuch beschriebenen Arbeitsschritte Kenntnisse erforderlich sind, die über die Kompetenz eines durchschnittlichen Fahrradfahrers hinausgehen. Falls Sie nicht qualifiziert sind, diese Schritte auszuführen, bringen Sie Ihr Fahrrad zur Wartung und zum Austauschen von Bauteilen zu einem von Mondraker autorisierten technischen Kundendienst. Der falsche Einbau von Ersatzteilen kann zu Fehlfunktionen, Unfällen, Verletzungen und zum Erlöschen der Garantie führen.

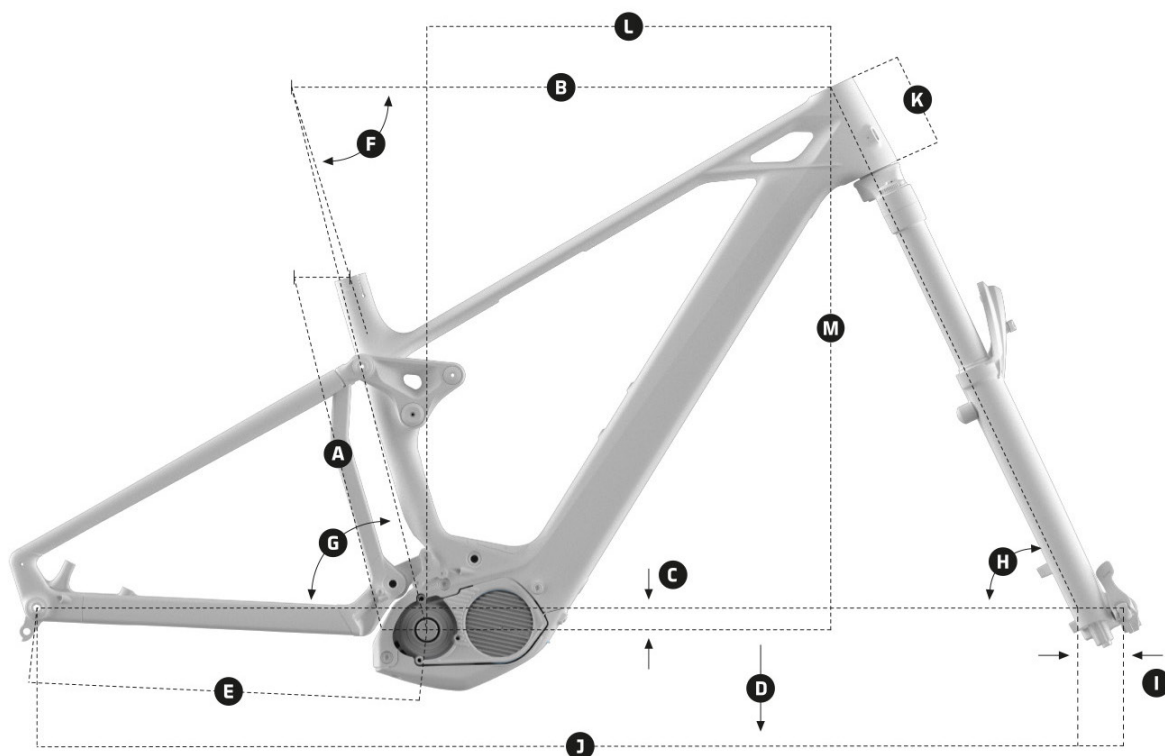
-  Weitere Informationen zur Installation von elektrischen Komponenten, Motor, Display und Fernbedienung finden Sie in den Handbüchern von Shimano: <https://si.shimano.com/#/>

REINIGUNG UND PFLEGE

- Nach einem Ausbau der Teile wird empfohlen, die wiederzuverwendenden Komponenten zu reinigen, zu fetten und (falls erforderlich) mit Schraubensicherung zu versehen.



1. GEOMETRIE



GRÖßE	S	M	L	XL
A Sitzrohlänge	380mm	420mm	450mm	490mm
B Oberrohrlänge	605mm	625mm	650mm	670mm
C Innenlagerabsenkung	-25mm	-25mm	-25mm	-25mm
D Innenlagerhöhe	350mm	350mm	350mm	350mm
E Kettenstrebenlänge	455mm	455mm	455mm	455mm
F Sitzrohrwinkel	73.5°	73.5°	73.5°	73.5°
G Sitzrohrwinkel (effektiv)	76.0°	76.0°	76.0°	76.0°
H Steuerrohrwinkel	65.0°	65.0°	65.0°	65.0°
I Gabel-Offset	44mm	44mm	44mm	44mm
J Radstand	1236mm	1256mm	1285mm	1305mm
K Steuerrohrlänge	110mm	110mm	130mm	140mm
L Reach	450mm	470mm	490mm	510mm
M Stack	632mm	632mm	645mm	645mm



2. RAHMENSPEZIFIKATIONEN

FRAME SIZES	S / M / L / XL
FRONT WHEEL SIZE	29"
FRONT HUB	110mm x 15mm
REAR WHEEL SIZE	29"
REAR HUB	148mm x 12mm (BOOST)
REAR AXLE	L180mm M12 PITCH 1.75, HEAD DIAMETER 19mm
TOTAL WATER BOTTLE / RANGE EXTENDERS MOUNTS	1 INTEGRATED FIDLOCK POCKET + 1 WATER BOTTLE CAGE MOUNT
MOTOR	Shimano SCHRITTS EP801
BOTTOM BRACKET	Shimano
BATTERY SIZE	720Wh
RANGE EXTENDER COMPATIBLE	YES, 500ml WATER BOTTLE SIZE
REAR TRAVEL	150mm
REAR SHOCK	205 x 65mm TRUNNION, 25 x 10mm BOTTOM BUSHINGS
FRONT TRAVEL	160mm, 170mm MAX
SEATPOST DIAMETER	31.6mm (37mm seatpost clamp)
CHAINLINE	55mm
HEADSET	UPPER: IS52 1 1/8", LOWER ZS56 BLOCKLOCK 1.5"
MAX CHAINRING	34T
REAR BRAKE	POST MOUNT, DIRECT 200mm
MAX REAR TIRE WIDTH	66mm, 29 x 2.6"

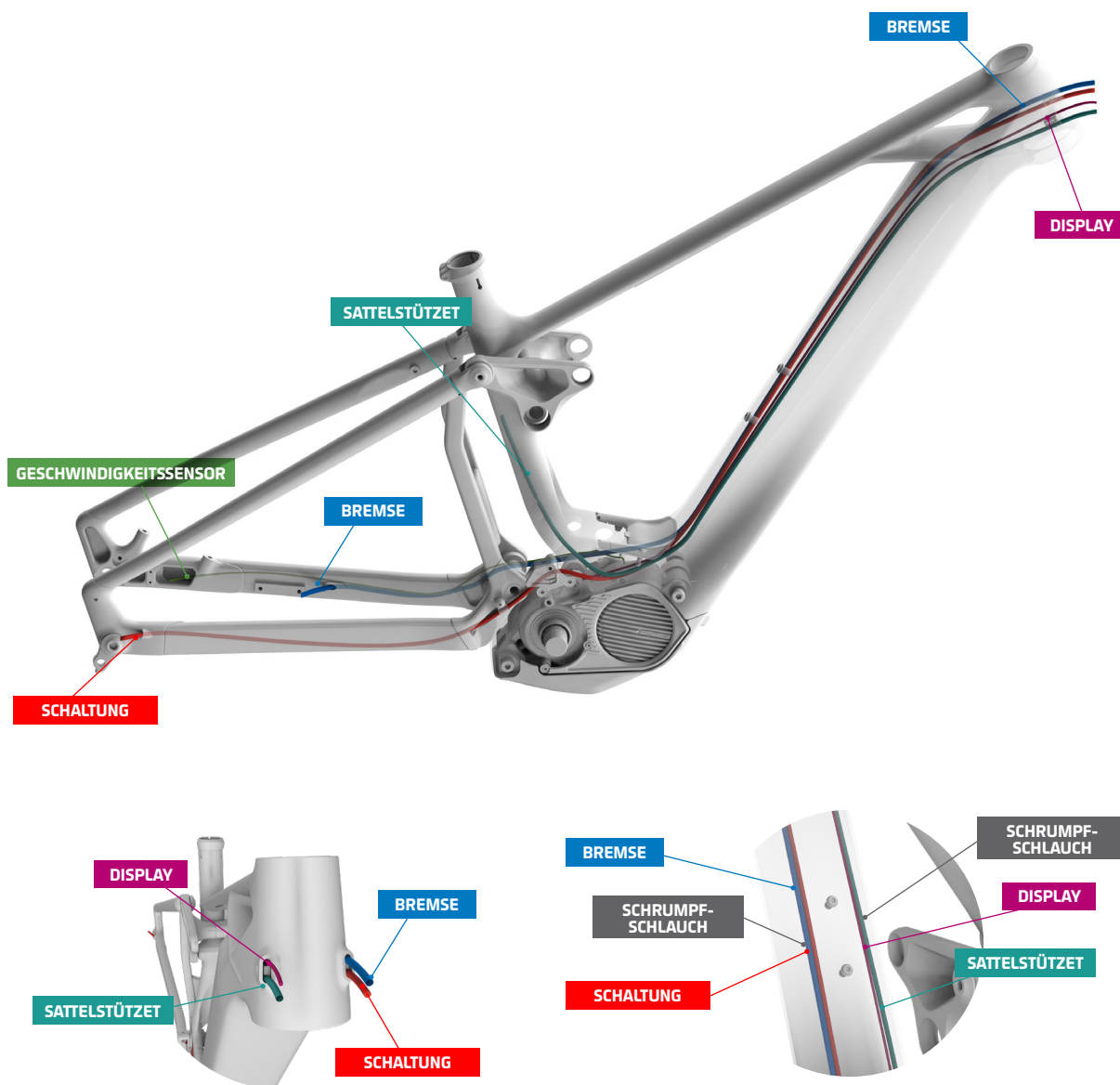
3. EINSTECKTIEFE DER SATTELSTÜTZE



RAHMEN-GRÖßE	MIN. (mm)	MAX. (mm)
XL	100	285
L	100	245
M	100	215
S	100	175

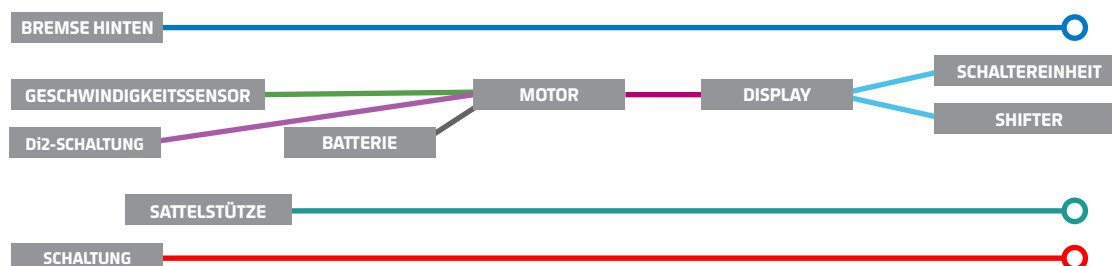


4. INTERNE KABEL- UND ZUGVERLEGUNG



Die Kabel verlaufen durch einen internen Kabelschlauch.

5. KABELANSCHLUSSDIAGRAMM





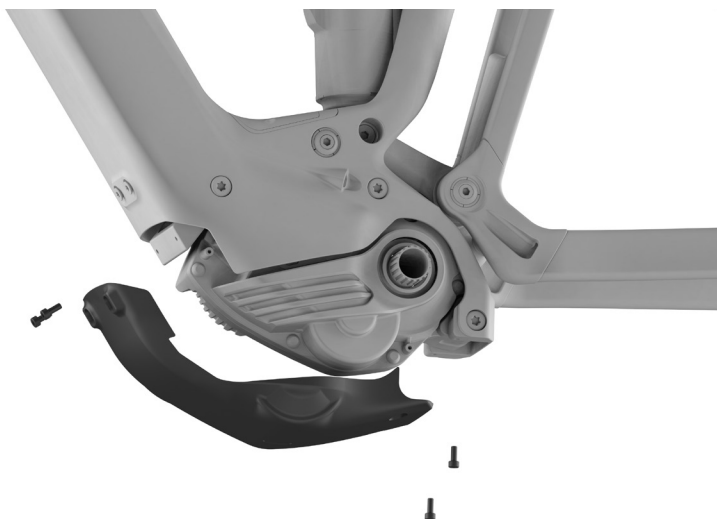
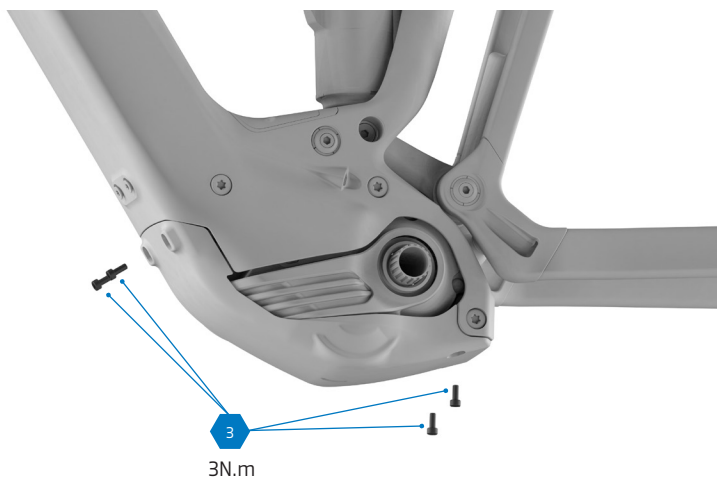
6. ANTRIEBSEINHEIT

6.1. ABDECKUNG ABNEHMEN



SCHRITT 1

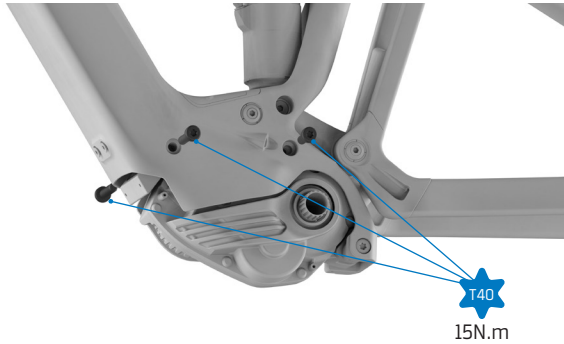
Lösen Sie die 4 Schrauben und nehmen Sie die Abdeckung ab.



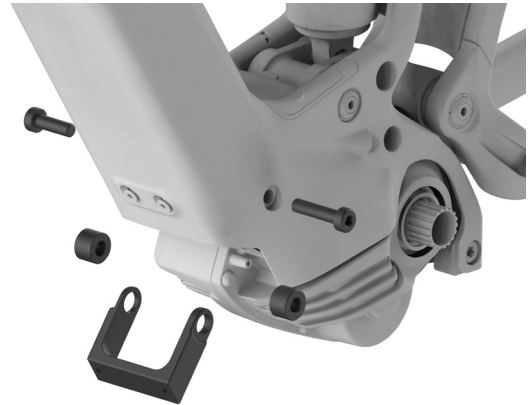
SCHRITT 2

Abdeckung abnehmen.

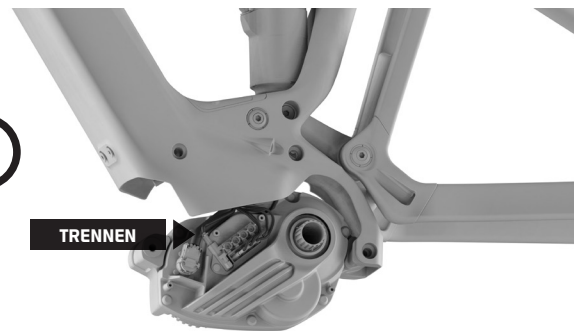
6. 2. ANTRIEBSEINHEIT HERAUSNEHMEN



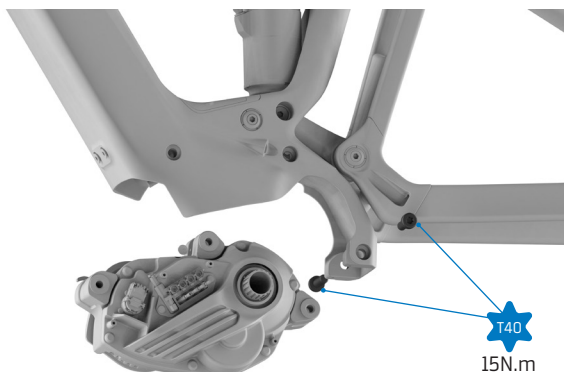
SCHRITT 1 Lösen Sie die 4 Schrauben und nehmen Sie die Motorhalterung ab.



SCHRITT 2 Drehen Sie den Motor leicht und trennen Sie die Verbindungen.



Verwenden Sie immer das Werkzeug TL-EW300 von Shimano, um Kabel anzuschließen oder Verbindungen zu trennen. Die Kabel sind äußerst empfindlich. Wenn Sie nicht das richtige Werkzeug verwenden, kann das Kabel beschädigt werden. Weitere Informationen finden Sie in den Handbüchern von Shimano: <https://si.shimano.com/#/>



SCHRITT 3 Lösen Sie die 2 Schrauben und nehmen Sie den Motor heraus.

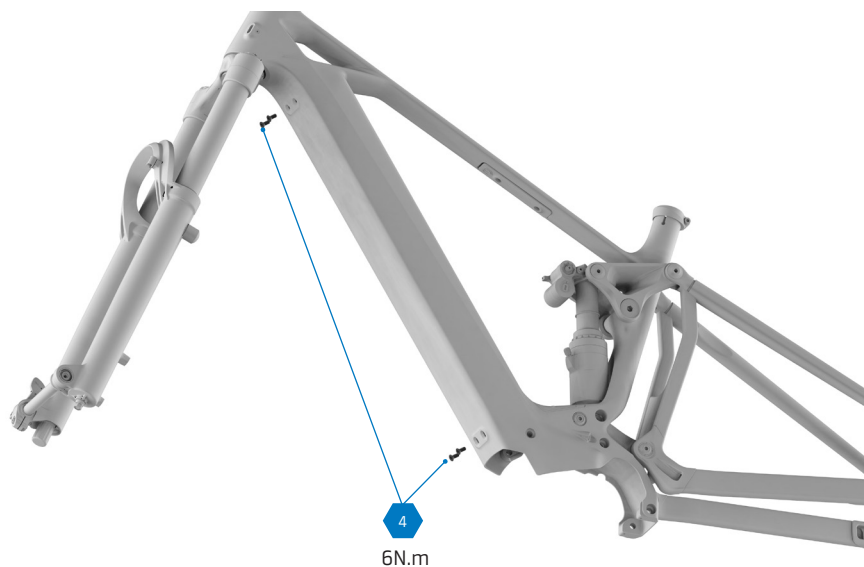


Bringen Sie unbedingt Blindstopfen an allen nicht verwendeten E-TUBE-Anschlüssen an.

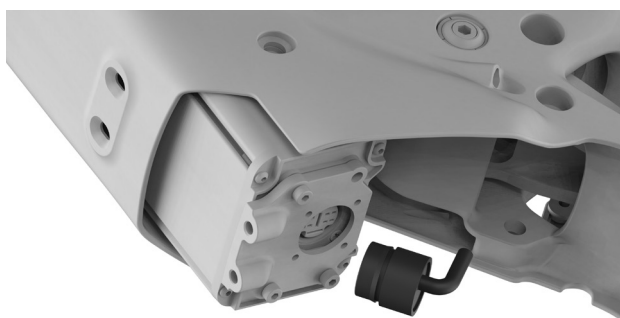


7. BATTERIEAUSBAU

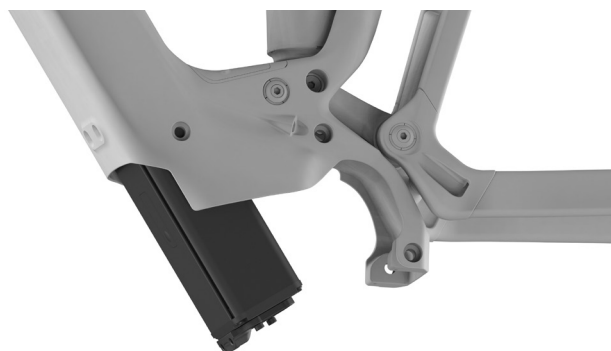
Führen Sie die Schritte 6.1 und 6.2 aus.



SCHRITT 1 Lösen Sie die 4 Schrauben.



SCHRITT 2 Trennen Sie die Verbindung.



SCHRITT 3 Ziehen Sie die Batterie heraus.



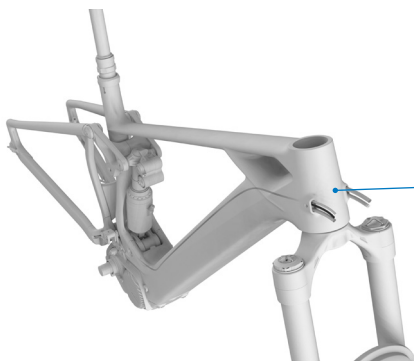
8. LICHT ANSCHLIEßEN (OPTIONAL)

-  Dieses Fahrrad ist mit einem Anschluss für eine Front- und Rückleuchte ausgestattet.
-  Verwenden Sie immer das Werkzeug TL-EW300 von Shimano, um Kabel anzuschließen oder Verbindungen zu trennen. Die Kabel sind äußerst empfindlich. Wenn Sie nicht das richtige Werkzeug verwenden, kann das Kabel beschädigt werden.
-  Weitere Informationen bezüglich der Anschlüsse finden Sie in den Handbüchern von Shimano: <https://si.shimano.com/#/>



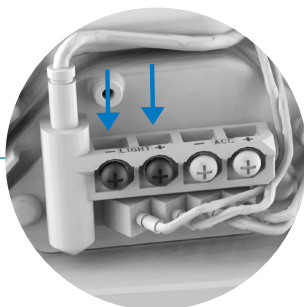
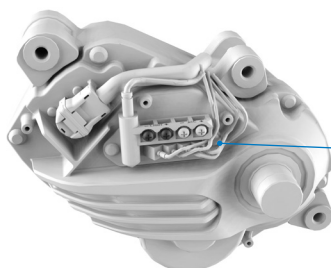
SCHRITT 0

Führen Sie die Schritte 6.1 und 6.2 aus, um an die Anschlüsse der Antriebseinheit zu gelangen.



SCHRITT 1

Führen Sie das Lichtkabel durch die Öffnung oben rechts.

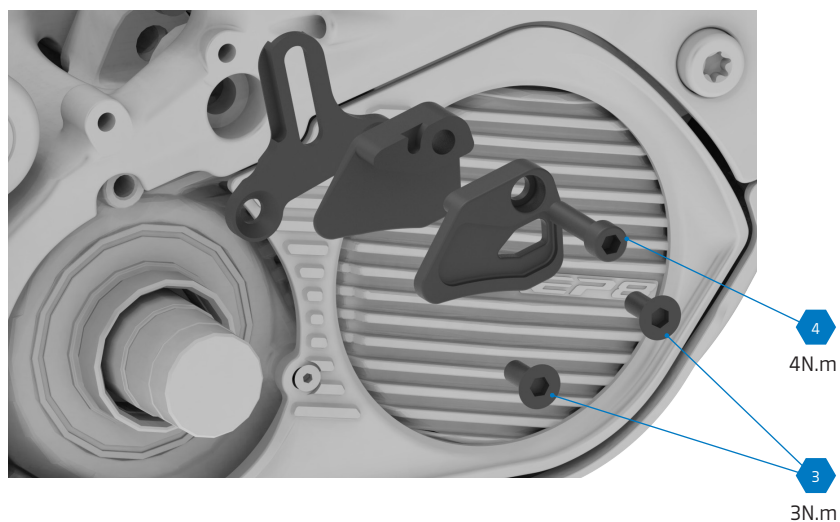


SCHRITT 2

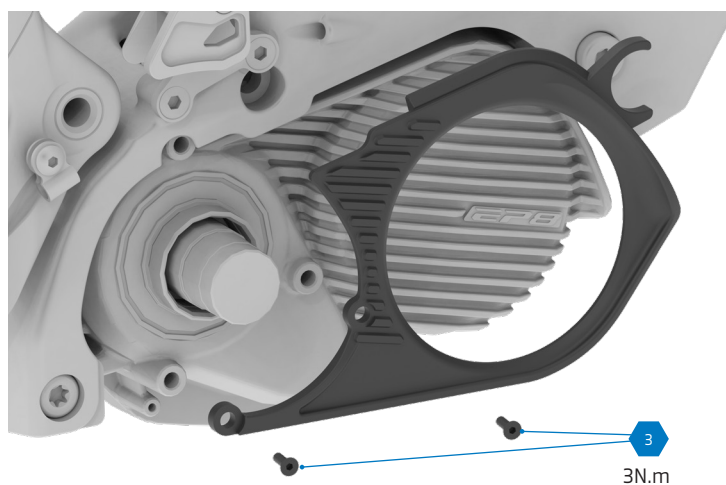
Schließen Sie die Kabel, die mit der Frontleuchte verbunden sind, gemäß den Anweisungen von Shimano (<https://si.shimano.com/#/>) an die Antriebseinheit an.



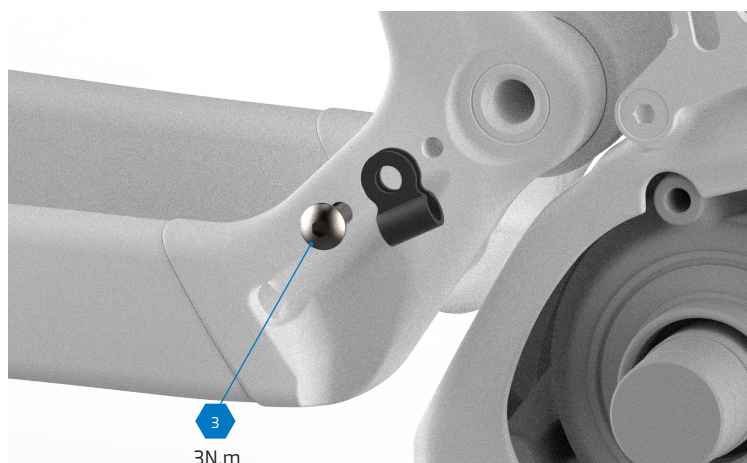
9. KETTENFÜHRUNG



10. RECHTE MOTORABDECKUNG

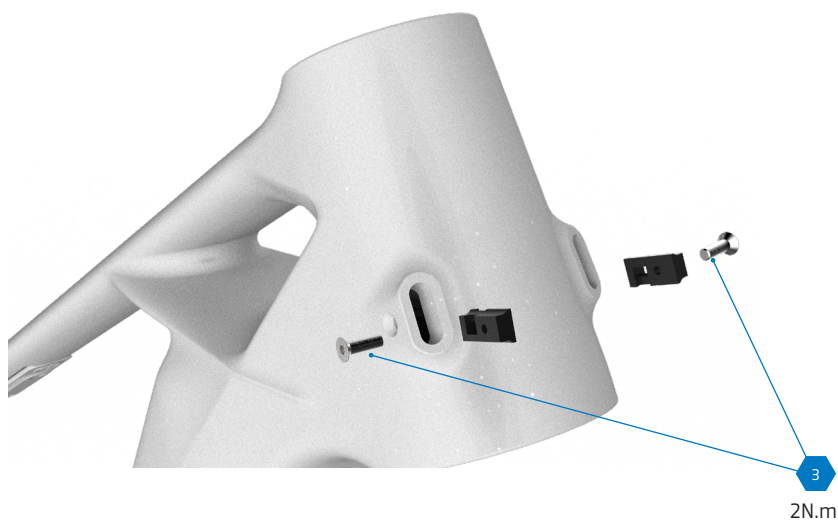


11. KABELFÜHRUNG

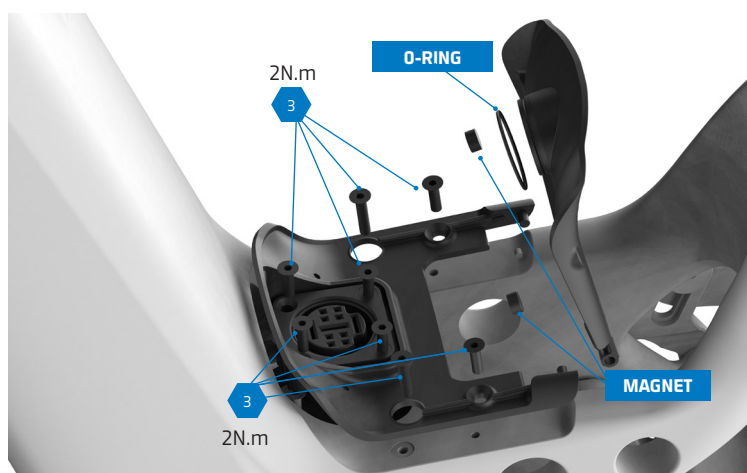




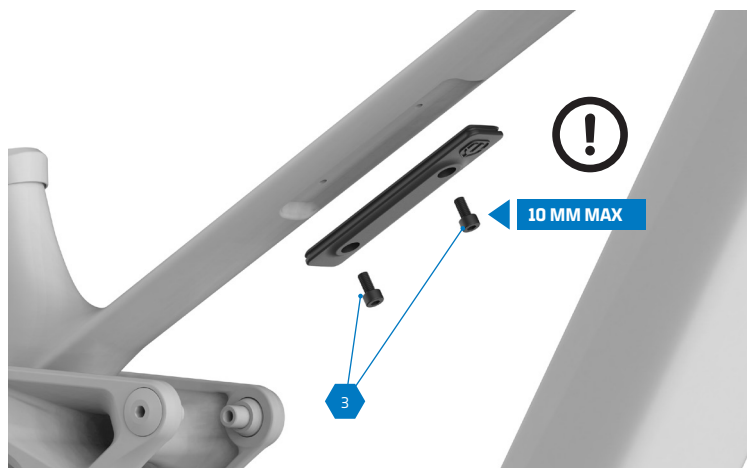
12. EINGANG FÜR INTERNE KABELVERLEGUNG



13. LADEANSCHLUSS-ABDECKUNG

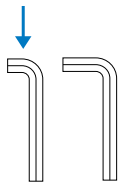


14. FIDLOCK-ABDECKUNG





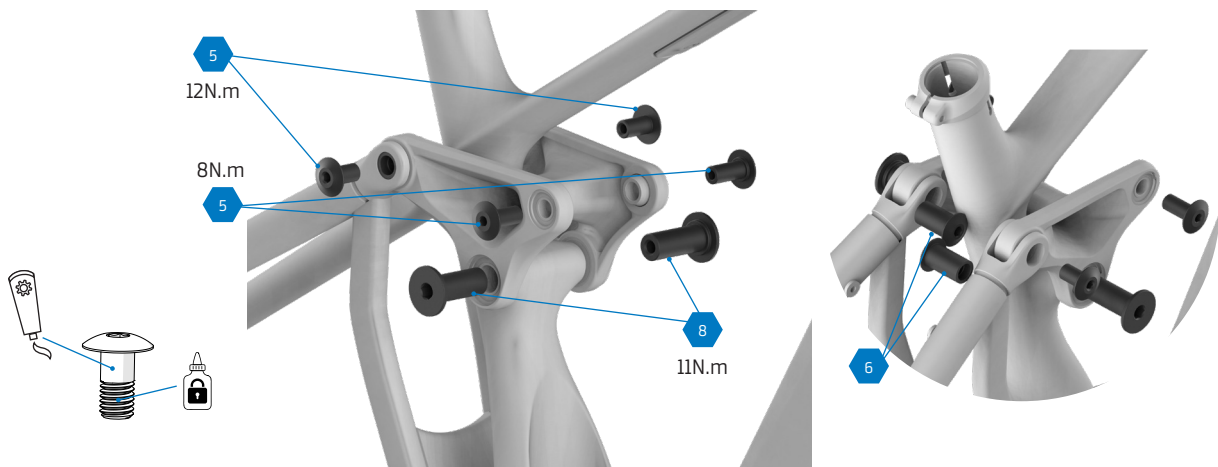
15. MONTAGEANLEITUNG FÜR OBERE WIPPE



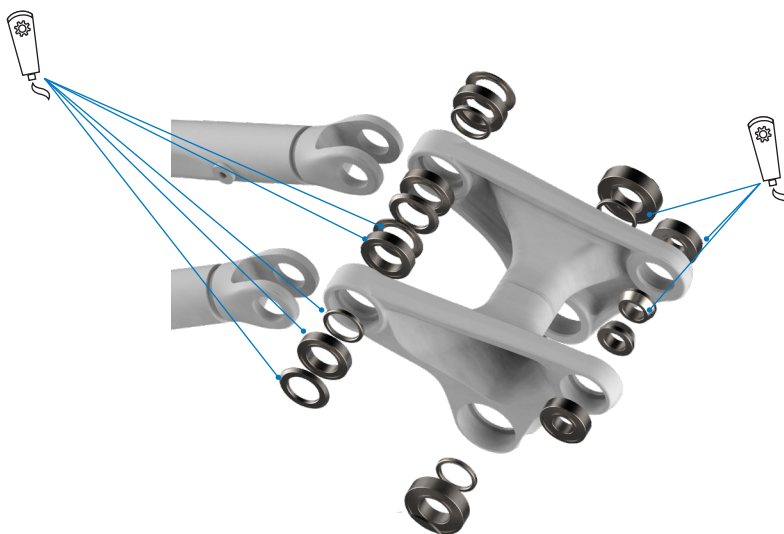
Um an die Schrauben des hinteren Dreiecks zu gelangen, muss der Stoßdämpfer entfernt oder ein kurzer Sechskantschlüsselsatz verwendet werden.



Lassen Sie für den Ausbau des Dämpfers zuerst den gesamten Luftdruck ab.

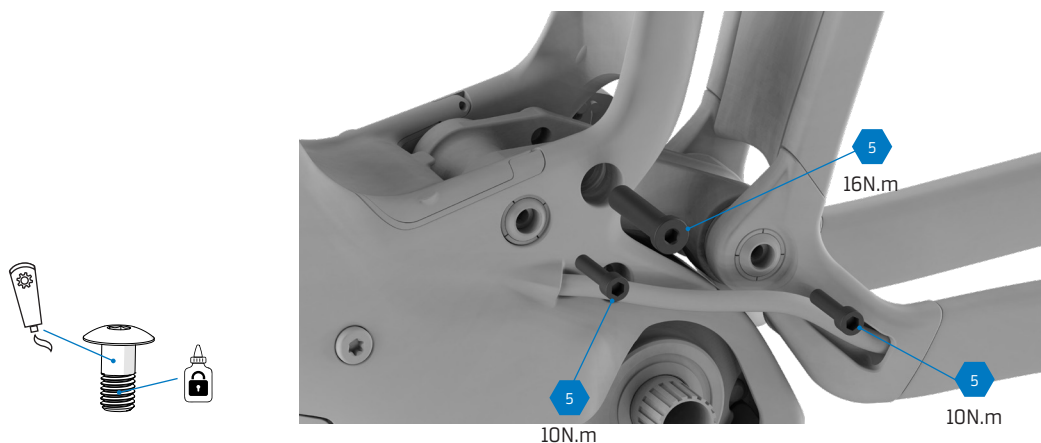


Tragen Sie bei den Hauptschrauben Fett auf den Schaft und Loctite 243 oder ähnliches auf das Gewinde auf.

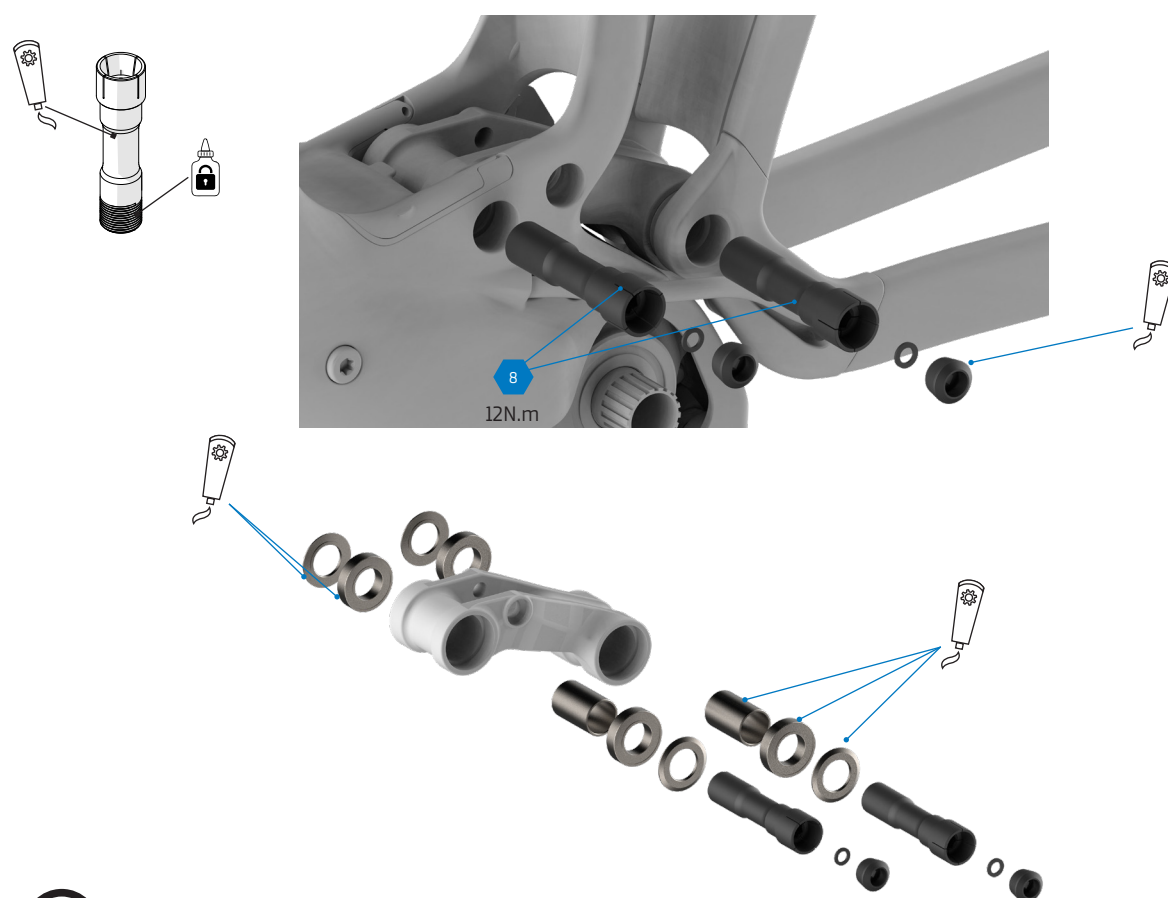


Tragen Sie Fett auf alle Lager und Spacer auf.

16. MONTAGEANLEITUNG FÜR UNTERE WIPPE



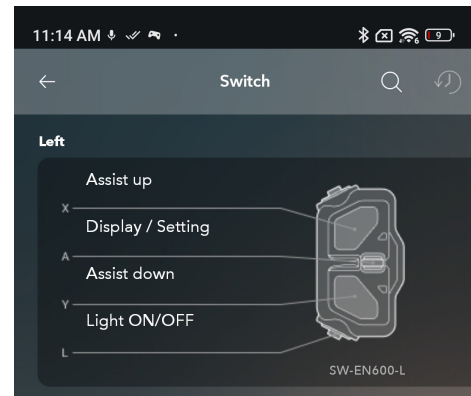
! Tragen Sie bei den Hauptschrauben Fett auf den Schaft und Loctite 243 oder ähnliches auf das Gewinde auf.



! Tragen Sie Fett auf alle Lager und Spacer auf.

17. SCHALTEREINHEIT

Die Shimano Fernbedienung SW-EN600-L hat die folgenden Funktionen:



18. FEINEINSTELLUNG DES SCHALTWERKS

1. Schalten Sie Ihr E-Bike ein.
2. Schalten Sie das Schaltwerk auf das 5. Ritzel.
3. Rufen Sie das Einstellungs Menü durch langes Drücken der Anzeige-Wechseltaste auf.
4. Blättern Sie zu Einstellung > Anpassen
5. Während Sie das vordere Kettenrad drehen, verwenden Sie die Schalthebel zur Feineinstellung des Schaltwerks.
6. Bestätigen Sie die Einstellungen und beenden Sie das Einstellungs Menü.





19. KONNEKTIVITÄT

19.1. KOPPELN DES SMARTPHONES

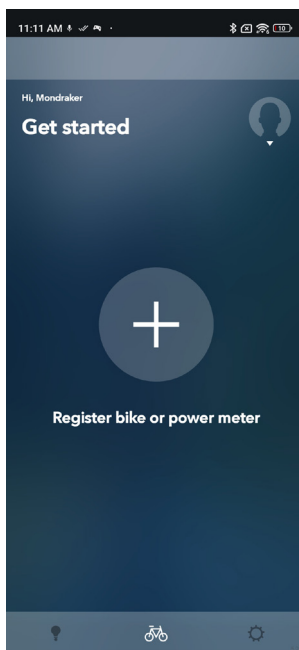


Es wird empfohlen, das E-Bike vor der ersten Fahrt vollständig aufzuladen.

Mit der Smartphone-App E-TUBE PROJECT Cyclist können Sie die Einstellungen Ihres Mondraker Crusher individuell anpassen und Wartungsaufgaben durchführen.

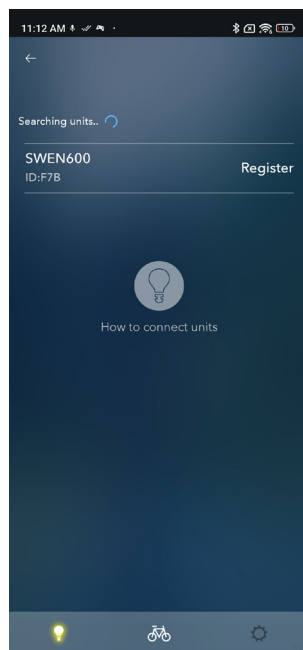
Ein ausführliches Benutzerhandbuch ist auf der Shimano-Website verfügbar. Suchen Sie nach E-TUBE PROJECT Cyclist, um die neueste Version herunterzuladen.

SCHRITT 1



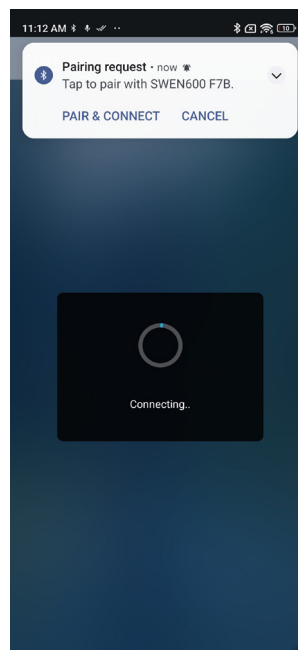
Tippen Sie auf + und schalten Sie Ihr E-Bike ein.

SCHRITT 2



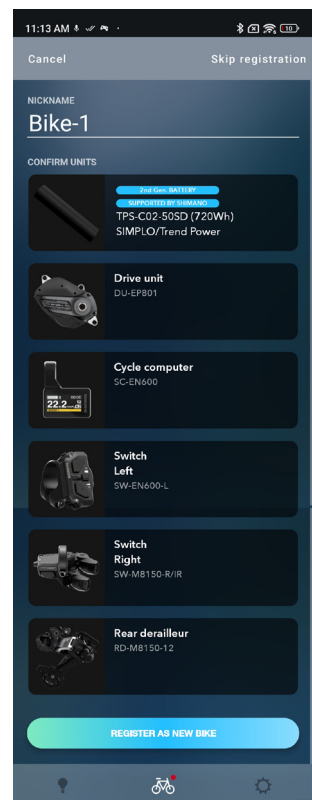
Wählen Sie es aus der Liste aus.

SCHRITT 3



Bestätigen Sie die Verbindung.

SCHRITT 4





19.2. KOPPELN EINES GPS-GERÄTS

1. Um Ihr E-Bike mit einem GPS-Fahrradcomputer zu verbinden, müssen Sie zuerst das Fahrrad einschalten.
2. Schalten Sie Ihr GPS-Gerät ein und wählen Sie im Menü Sensoren hinzufügen > (Alle suchen).
3. Wählen Sie den Sensor „Shimano STEPS“.
4. Ihr Fahrradcomputer ist jetzt mit Ihrem Mondraker Crusher verbunden!

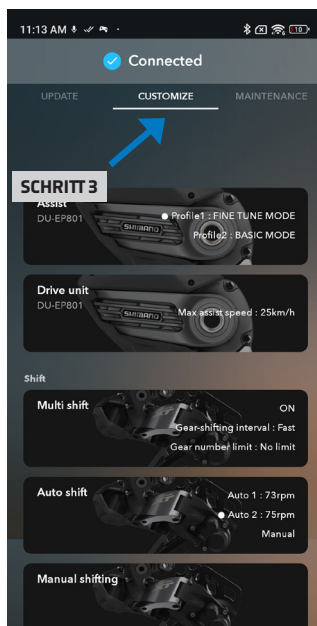




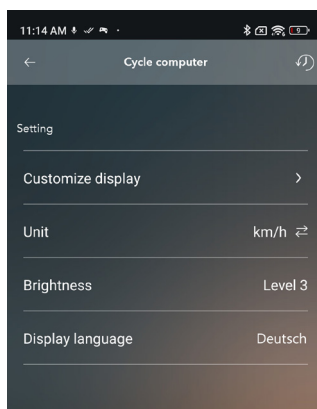
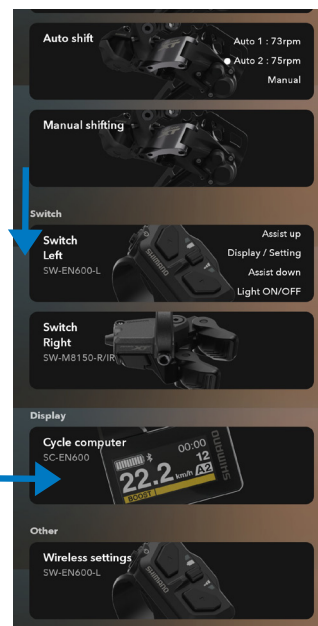
20. EINSTELLUNGEN

20.1. SPRACHE DER ANZEIGE, INFO UND EINHEITEN ÄNDERN

1. Schalten Sie Ihr E-Bike ein und verbinden Sie es mit dem Smartphone.
2. Tippen Sie auf das zuvor gespeicherte E-Bike.
3. Wählen Sie ANPASSEN aus.
4. Scrollen Sie nach unten und wählen Sie Fahrradcomputer aus.
5. Wählen Sie Ihre bevorzugten Einheiten, die Helligkeit und Sprache der Anzeige aus.

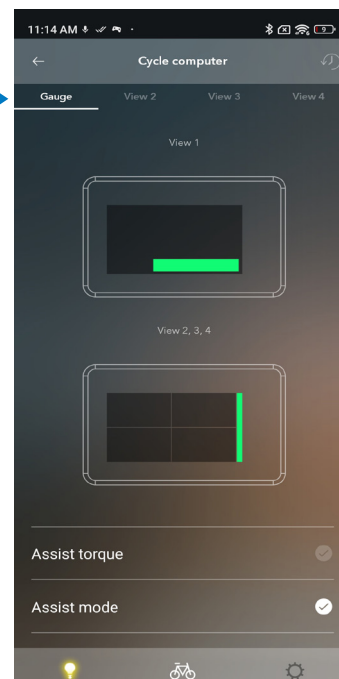


SCHRITT 4



SCHRITT 5

Sie können die
Anzeigedaten
für alle 4 Seiten
anpassen.

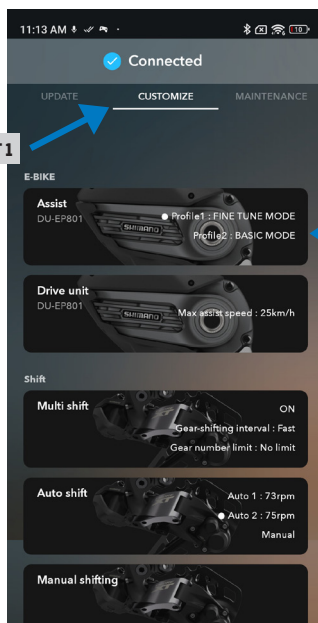




20.2. UNTERSTÜTZUNGSMODI UND PROFILE KONFIGURIEREN

Shimano bietet die Möglichkeit, die Leistungsaufnahme der Antriebseinheit anzupassen, sodass der Benutzer verschiedene Unterstützungsmodi und 2 Profile erstellen kann.

1. Wählen Sie ANPASSEN aus.
2. Tippen Sie auf Unterstützung
3. Konfigurieren Sie die Profile.
4. Übernehmen Sie die Änderungen, um sie zu speichern und an Ihr Fahrrad zu senden.



SCHRITT 2



SCHRITT 3

Das erste Profil hat standardmäßig einen mehrstufigen Unterstützungsmodus. Sie können die Anzahl der Stufen von 3 bis 15 und die Intensität jeder Linie individuell ändern.

Innerhalb eines Profils können Sie verschiedene Konfigurationen speichern, aber nur eine wird auf das E-Bike geladen.

Das zweite Profil hat einen Basisunterstützungsmodus. Sie können die Intensität der 3 Stufen ändern.

SCHRITT 4

Wenn Sie übernehmen, werden Profil 1 und Profil 2 auf Ihr Fahrrad geladen.

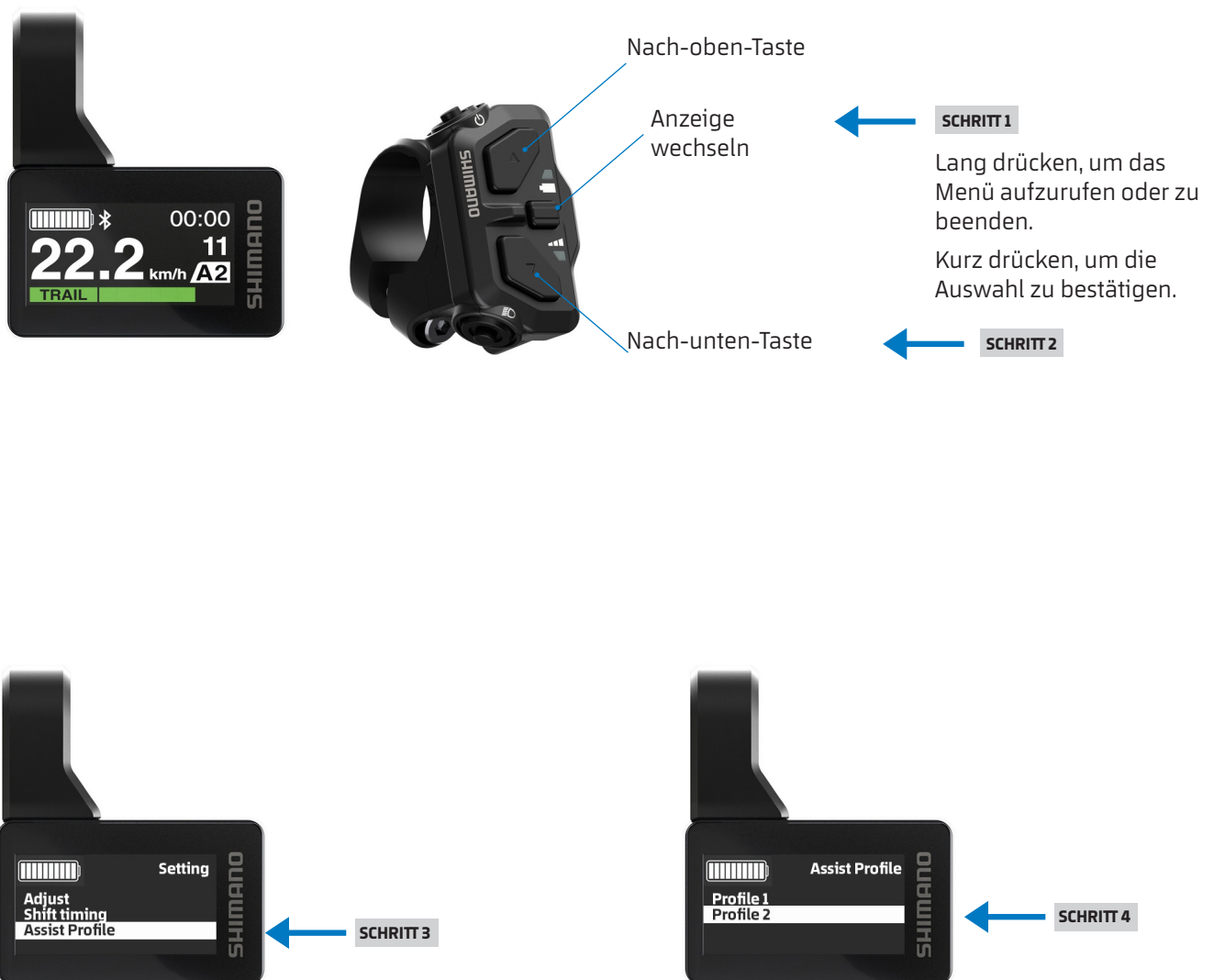


20.3. ZWISCHEN PROFILEN WECHSELN

Sobald die Profile geladen sind, können Sie auf Ihrem E-Bike wählen, ob Sie mit Profil 1 oder Profil 2 fahren möchten.

So wählen Sie aus:

1. Schalten Sie Ihr E-Bike ein.
2. Rufen Sie das Einstellungs Menü durch langes Drücken der Anzeige-Wechseltaste auf.
3. Blättern Sie zum Unterstützungsmodus, indem Sie 8-mal die Nach-unten-Taste drücken.
4. Rufen Sie den Unterstützungsmodus auf, indem Sie auf die Modusanzeige drücken.
5. Wählen Sie ein Profil und drücken Sie die Anzeigetaste, um die Auswahl zu bestätigen.





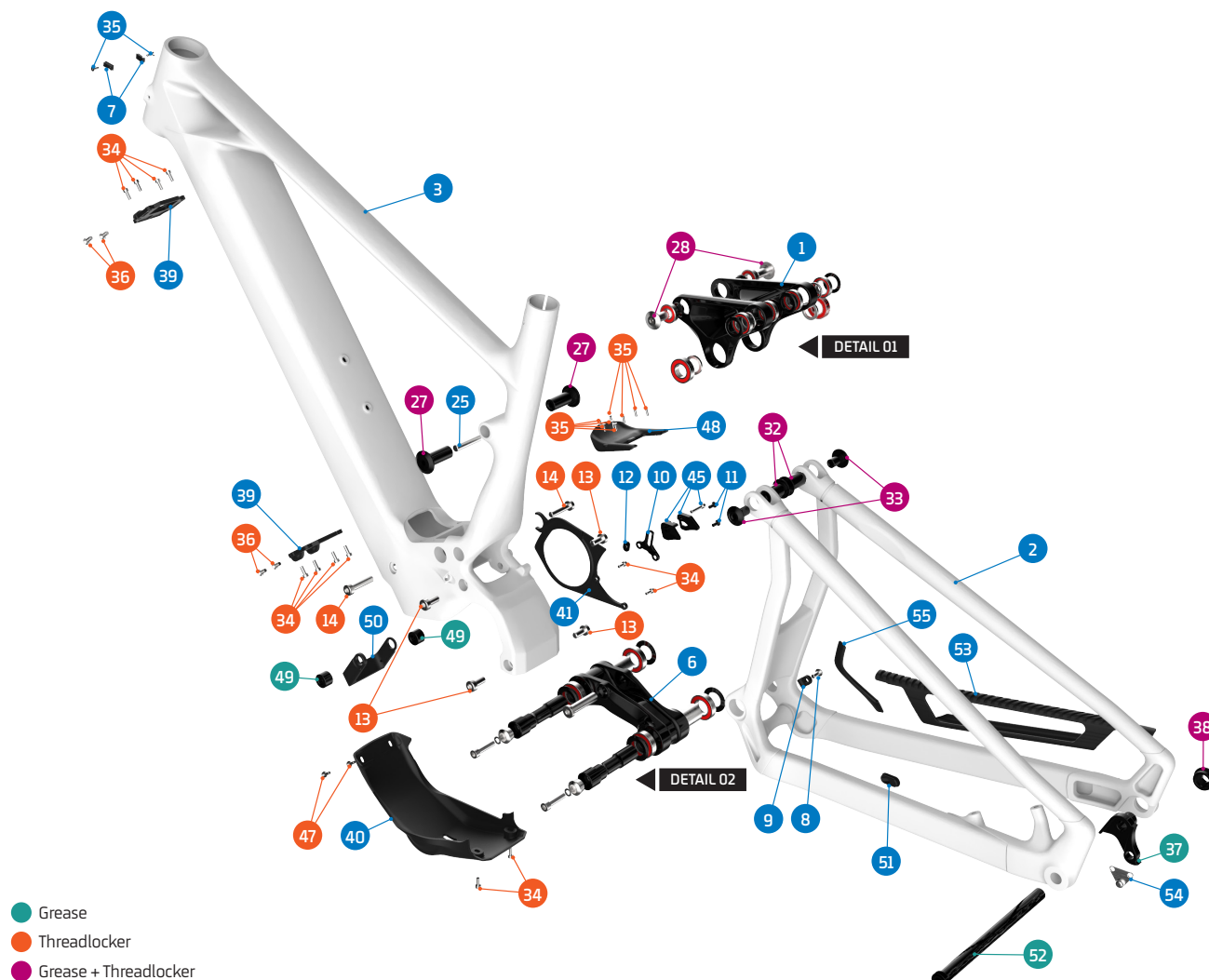
21. AUTOMATISCHES SCHALTEN

Durch Drücken der Umschalttaste wechseln Sie zwischen dem manuellen Modus, Auto 1 und Auto 2.





22. SPARE PARTS



● Grease

● Threadlocker

● Grease + Threadlocker

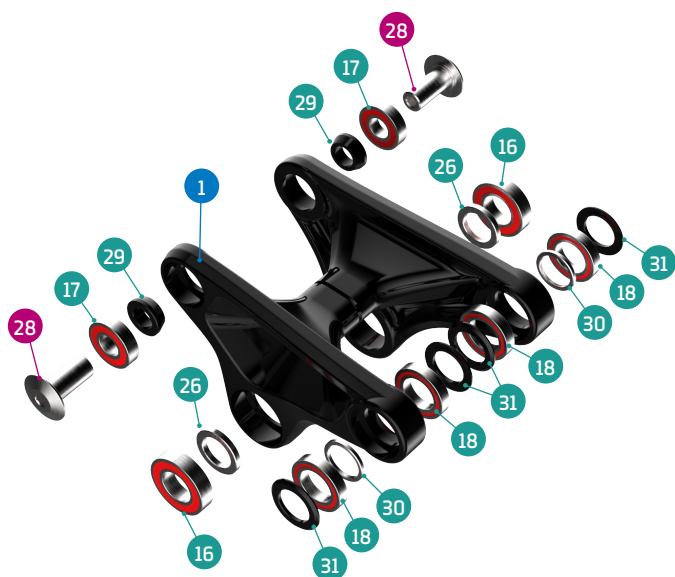
Apply grease to the shaft, and locker to the threads

ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
1	UPPER LINK	1	099.20039	
2	REAR TRIANGLE	1		
3	FRONT TRIANGLE	1		
6	LOWER LINK	1	099.20040	
7	HEADTUBE CABLE CLAMP	2	SET 6	
8	BOLT M5x12L-R11F	1		3Nm
9	RT CABLE GUIDE	1	099.22064	
10	CHAINGUIDE SLIDING MOUNT	1	SET 10	
11	CHAINGUIDE SCREW M5x12L	2	SET 10	3Nm
12	CHAINGUIDE SLIDING NUT	1	SET 10	
13	MOTOR BOLT 18MM	4	SET 8	15Nm
14	MOTOR BOLT 36MM	2	SET 8	15Nm
15	BEARING 30x17x7	4	SET 1	
16	BEARING 28x15x7	2	SET 1	
17	BEARING 22x10x6	2	SET 1	
18	BEARING 24x15x5	4	SET 1	
19	LOWER LINK SPACER 22x17x30L	2	SET 4	
20	LOWER LINK SHIELD 27x15x2	4	SET 4	
21	LOWER LINK COLLET BOLT	2	SET 4	12Nm
22	LOWER SHOCK BOLT	1	099.21012 / SET 2	16Nm
23	TAPER NUT	2	SET 4	
24	BOLT M6x25L-P11M	2	SET 4	10Nm
25	UPPER LINK THREADED	1	SET 3	
26	BEARING SPACER 22x15x3	2	SET 3	
27	UPPER LINK SEATTUBE AXLE	2	SET 3	11Nm
28	UPPER SHOCK BOLT	2	SET 2	8Nm

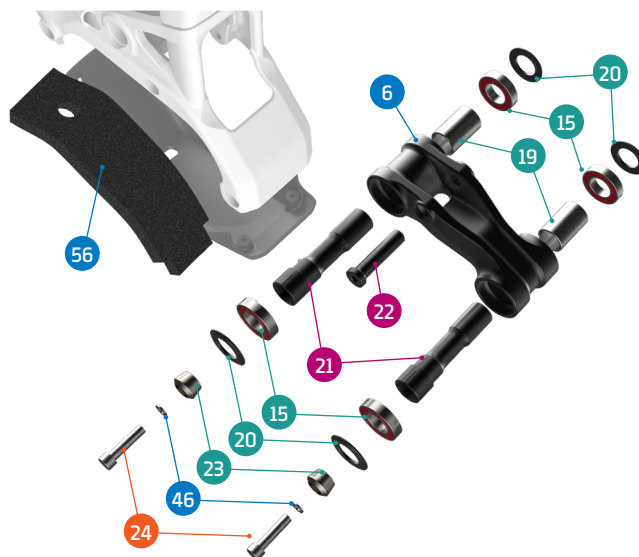
ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
29	SHOCK SPACER 17x10x6	2	SET 2	
30	BEARING SPACER 19x15x2	2	SET 3	
31	BEARING SPACER 24x15x2	4	SET 3	
32	UPPER LINK RT BOLT	2	SET 3	
33	UPPER LINK RT BOLT	2	SET 3	12Nm
34	BOLT M5x10L-P-S	12		3Nm
35	BOLT M3x10L-M-S	10	SET 6	2Nm
36	BATTERY BRACKET SCREW	4	SET 9	6Nm
37	HANGER	1	SET 5	
38	HANGER NUT	1	SET 5	4Nm
39	SIMPLO 720 Wh BRACKET	2	099.24056	
40	EP801 LOWER MOTOR COVER	1	099.23050	
41	EP801 RIGHT SIDE MOTOR COVER	1	099.24005	
45	CHAIN GUIDE BOLT	1	099.20010A	4Nm
46	COLLET WASHER SPACER	2	SET 4	
47	LOW PROFILE BOLT	2	099.24007	3Nm
48	CHARGING PORT COVER	1	099.24006	
49	MOTOR SPACER	2	SET 7	
50	MOTOR BRACKET	1	SET 7	
51	GROMMET	1	989.13010	
52	REAR AXLE 12x148 P1.75 L180	1	112.90022	
53	CHAIN PROTECTOR	1	099.20017	
54	ROTOR MAGNET SPEED SENSOR	1	124.20401	
55	YOKE PROTECTOR	1	099.20056	
56	SPONGE MOTOR PROTECTOR	1	099.20086	



DETAIL 01

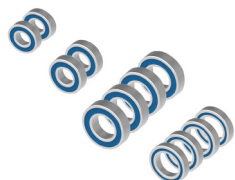


DETAIL 02



SET 1

ZERO BEARING KIT 20



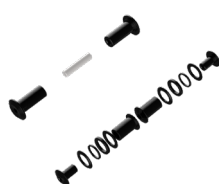
SET 2

SHOCK HARDWARE KIT 13



SET 3

UPPER LINK KIT 26



SET 4

LOWER LINK KIT 24



SET 5

HANGER M068 + NUT



PART NUMBER	DESCRIPTION	COMPONENTS
099.20101	SET 1: ZERO BEARING KIT 20	BEARING 6903V-2RS, 30x17x7 (x4) / BEARING 6802V-2RS, 24x15x5 (x 4) / BEARING 6902V-2RS, 28x15x7 (x2) / BEARING 6900V-2RS, 10x22x6 (x2)
099.20201	SET 2: SHOCK HARDWARE KIT 13	SHOCK BOLT (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x1)
099.20301	SET 3: UPPER LINK KIT 26	SPACER, 15x19x21 (x2) / SPACER, 15x24x2 (x4) / M8 THREAD AXLE (x1) / LINK AXLE (x2) / PIVOT AXLE, 26MM (x2) / PIVOT AXLE, M12 (x2) / SPACER, 15x22x3 (x2)
099.20401	SET 4: LOWER LINK KIT 24	TAPER NUT (x2) / SPACER (x2) / SCREW BOLT (x2) / SPACER, 15x27x2 (x4) / MAIN PIVOT AXLE, 17X60 (x2) / SPACER, 17x22x30L (x2)
099.00055	SET 5: HANGER M068 + NUT	HANGER (x1), HANGER NUT (x1)
099.24001	SET 6: GUIJA CABLE KIT CRUSHER	HEADTUBE INTERNAL CABLE CLAMP (x2) / SCREW BOLT (x2)
099.24002	SET 7: MOTOR SPACERS & BRACKET SET	MOTOR MOUNT FRONT BOLT SPACER (x2) / SKID PLATE MOUNTING BRAKET (x1)
099.24003	SET 8: MOTOR BOLTS SET	MOTOR MOUNTING BOLT, 18MM (x4) / MOTOR MOUNTING BOLT, 36MM (x2)
099.24004	SET 9: BATTERY BOLTS SET	BATTERY BRAKET FIXING SCREW (x4)
099.20081	SET 10: CHAIN GUIDE PLATE + BOTLS	CHAINGUIDE SLIDING MOUNT (x1) / CHAINGUIDE MOUNTING SCREW CSUNK (x2) / CHAINGUIDE SLIDING NUT (x1)



23. FAQ

WELCHE DÄMPFER KÖNNEN AM CRUSHER VERBAUT WERDEN?

Das Crusher ist kompatibel mit allen Stahlfeder-, Air-, Inline- oder Piggyback-Dämpfern wie z. B. dem serienmäßigen Fox Float, Float DPS, Float X, Float DPX2, RockShox Deluxe, Vivid, Super Deluxe Air oder Coil sowie dem Float X2, DHX2 oder Öhlins TTX Air und TTX22. Am Crusher werden metrische 205 x 65 mm Dämpfer mit Trunnion-Aufnahme oben und 25 x 10 mm Befestigungsteilen unten verbaut.

WELCHEN MAXIMALEN FEDERWEG DARF DIE GABEL AM CRUSHER HABEN?

Das Crusher ist kompatibel mit Federgabeln mit bis zu 170 mm Federweg.

WORIN UNTERSCHIEDET SICH DER RAHMEN DES CRUSHER VOM CRAFTY CARBON?

Geometrie, Aufhängungskinematik und Federweg sind gleich, allerdings wird beim Crusher eine Aluminium-Hinterradschwinge anstelle der Carbon-Schwinge am Crafty Carbon verwendet.

IST ES MÖGLICH, EINEN RANGE EXTENDER AM RAHMEN ANZUBRINGEN?

Das Crusher verfügt nicht über spezielle Halterungen für einen Range Extender, der daher nicht montiert werden kann.

KÖNNEN AM BIKE ANPASSUNGEN WIE Z.B. ÄNDERUNG DER ÜBERSETZUNG ODER REIFEN VORGENOMMEN WERDEN?

Die Bikes werden von unseren Mondraker-Monteuren von Hand zusammengebaut. Die technischen Spezifikationen für jedes Bike und seine Programmierung werden ebenfalls von uns erstellt, um eine perfekte Leistungsfähigkeit und alle nötigen Zulassungen sicherzustellen. Informationen wie die Rad- und Reifengröße, Anzahl der Gänge, Größe der Kettenblätter etc. werden für eine optimale Funktion in der Programmierung jedes Bikes hinterlegt. Jede Modifikation und jedes Firmware-Update am System muss von einem offiziellen Mondraker-Händler ausgeführt werden.

KANN DIE BATTERIE BEIM CRUSHER AUSGEBAUT WERDEN?

Das Crusher ist auf reine Leistung ausgelegt und wurde mit dem Ziel entwickelt, möglichst leicht zu sein. Daher ist die Batterie integriert und nicht ausbaubar. Um die Batterie zu laden, muss das Ladegerät direkt am Batterieanschluss unter dem Hauptrohr angeschlossen werden. Falls doch einmal ein Ausbau der Batterie notwendig ist, kann dies jeder Mondraker-Händler nach Ausbau des Motors tun.

WIE LANGE DAUERT ES, BIS DIE BATTERIE VOLLSTÄNDIG AUFGELODEN IST?

Ist die Batterie komplett auf 0 % entladen, dauert es mit dem originalen Ladegerät etwa 5 Stunden, bis die Batterie auf 100 % aufgeladen ist.

WELCHE GRÖÖE SOLLTE ICH KAUFEN?

Die richtige Größe ist je nach Fahrer sehr unterschiedlich. Persönliche Vorlieben und der eigene Fahrstil sind wichtig für die Wahl der richtigen Rahmengröße. Die folgende Standardgrößentabelle dient daher lediglich als Orientierung:

S 1.58 - 1.68
M 1.67 - 1.76
L 1.75 - 1.86
XL 1.85 - 1.95

WELCHE MAXIMALE LÄNGE DARF DIE TELESKOPSATTELSTÜTZE AM CRUSHER HABEN?

Siehe Tabelle in Abschnitt 3 dieses Handbuchs.

WELCHE ART DER WARTUNG ODER SICHERHEITSKONTROLLEN BENÖTIGEN DIE MOTOREN?

Überhaupt keine. Es ist auch nicht erforderlich, Teile in der Antriebseinheit zu schmieren oder zu zerlegen. Sie müssen sich lediglich so darum kümmern, wie Sie sich auch um ein traditionelles Mountainbike kümmern. Es ist jedoch wichtig, eine Vorsichtsmaßnahme zu erwähnen, die für jedes Mountainbike gilt: Elektronische Teile und insbesondere der Tretlagerbereich der Antriebseinheit sollten niemals mit einem Hochdruckreiniger gesäubert werden. Es wird daher empfohlen, die Kurbelachse nicht mit einem Hochdruckwasserstrahl zu reinigen, da die elektronischen Teile der Antriebseinheit ernsthaft beschädigt werden können.



Alle Informationen und Bilder in diesem Dokument dienen nur zu Informationszwecken und stellen keinen rechtlichen Vertrag zwischen Mondraker und einer natürlichen oder juristischen Person dar. Spezifikationen, Geometrien und andere veröffentlichte technische Informationen können ohne vorherige Ankündigung geändert werden.

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MANUALI E DOCUMENTI

 | **IT** | **CRUSHER**



SICUREZZA E ISTRUZIONI GENERALI

In questo manuale tecnico sono riportate le seguenti 3 icone, ciascuna delle quali indica di prendere le seguenti precauzioni:

ATTENZIONE!

Non attenersi alle indicazioni o procedimenti non sicuri può causare lesioni gravi o addirittura la morte. Le diverse mansioni comportano difficoltà tecniche e, se eseguite male, potrebbero danneggiare la bicicletta o comportare l'annullamento della garanzia.

AVVERTENZA

Non attenersi alle indicazioni o procedimenti non sicuri possono causare lesioni di lieve entità. Le diverse mansioni comportano difficoltà tecniche e, se sono eseguite male, potrebbero danneggiare la bicicletta o comportare l'annullamento della garanzia.

INFORMAZIONI

Informazioni indispensabili per una corretta esecuzione dei procedimenti per evitare eventuali danni della bicicletta o perdita della garanzia, ma che non comportano alcun rischio per la persona.

CONSIDERAZIONI

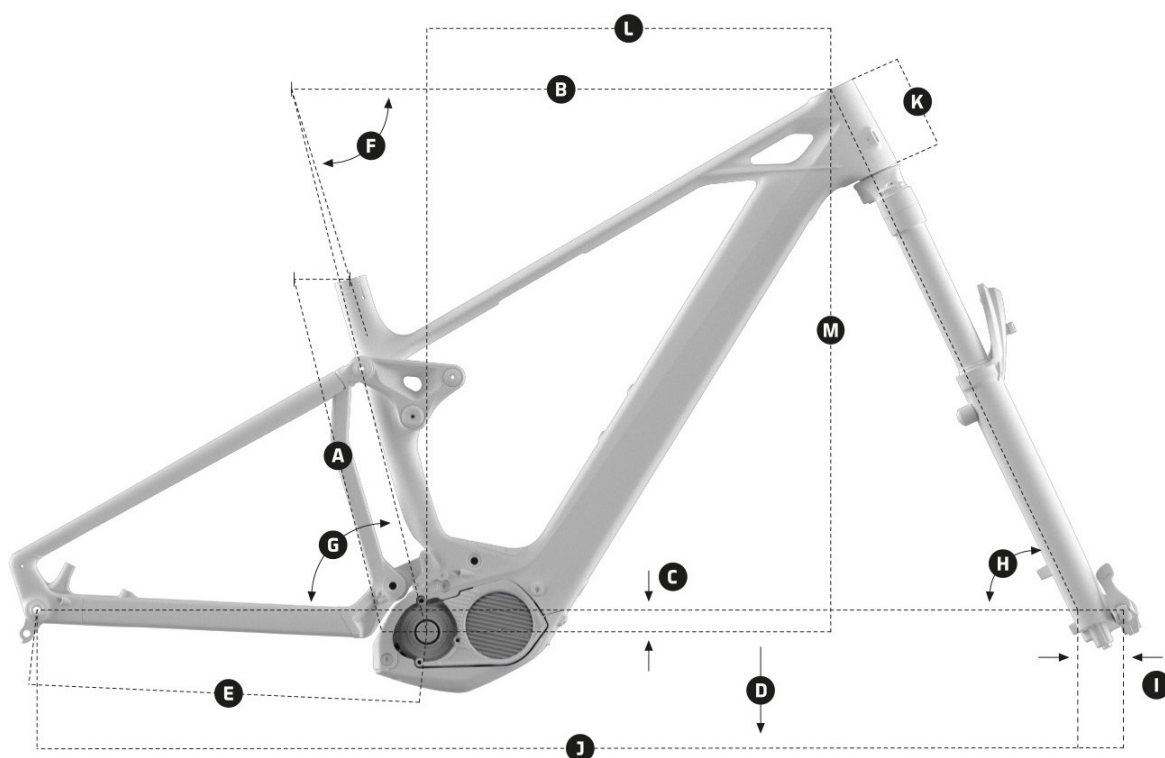
- L'uso di ricambi non originali può causare danni, malfunzionamenti e incidenti che possono portare a gravi conseguenze.
 - Si noti che per eseguire alcuni dei passaggi descritti in questo manuale, sono richieste competenze che vanno ben oltre le conoscenze di un'utilizzatore medio di bicicletta. Nel caso in cui non si è qualificati per seguire una delle seguenti indicazioni, si prega di portare la bicicletta presso un servizio tecnico autorizzato Mondraker per la manutenzione e la sostituzione dei suoi componenti. L'installazione errata dei pezzi di ricambio può causare malfunzionamenti, incidenti, lesioni e l'annullamento della garanzia.
-  Per ulteriori dettagli sull'installazione di componenti elettrici, motore, display e dispositivo remoto, consultare i manuali Shimano. <https://si.shimano.com/#/>

PULIZIA E CURA

- Non appena i pezzi sono stati smontati, si consiglia di pulire, ingrassare e mettere il frenafili (se necessario) sui componenti che verranno riutilizzati.



1. GEOMETRIA



DIMENSIONE DEL TELAIO	S	M	L	XL
A Lunghezza Piantone	380mm	420mm	450mm	490mm
B Lunghezza Tubo Orizz. Virtuale	605mm	625mm	650mm	670mm
C BB Drop	-25mm	-25mm	-25mm	-25mm
D Altezza movimento centrale	350mm	350mm	350mm	350mm
E Lunghezza Batticatena	455mm	455mm	455mm	455mm
F Angolo tubo sella	73.5°	73.5°	73.5°	73.5°
G Angolo Sella	76.0°	76.0°	76.0°	76.0°
H Angolo Sterzo	65.0°	65.0°	65.0°	65.0°
I Offset Forcella / Rake	44mm	44mm	44mm	44mm
J Intersasse	1236mm	1256mm	1285mm	1305mm
K Lunghezza Tubo Sterzo	110mm	110mm	130mm	140mm
L Reach	450mm	470mm	490mm	510mm
M Stack	632mm	632mm	645mm	645mm



2. SPECIFICHE TECNICHE TELAIO

FRAME SIZES	S / M / L / XL
FRONT WHEEL SIZE	29"
FRONT HUB	110mm x 15mm
REAR WHEEL SIZE	29"
REAR HUB	148mm x 12mm (BOOST)
REAR AXLE	L180mm M12 PITCH 1.75, HEAD DIAMETER 19mm
TOTAL WATER BOTTLE / RANGE EXTENDERS MOUNTS	1 INTEGRATED FIDLOCK POCKET + 1 WATER BOTTLE CAGE MOUNT
MOTOR	Shimano STEPS EP801
BOTTOM BRACKET	Shimano
BATTERY SIZE	720Wh
RANGE EXTENDER COMPATIBLE	YES, 500ml WATER BOTTLE SIZE
REAR TRAVEL	150mm
REAR SHOCK	205 x 65mm TRUNNION, 25 x 10mm BOTTOM BUSHINGS
FRONT TRAVEL	160mm, 170mm MAX
SEATPOST DIAMETER	31.6mm (37mm seatpost clamp)
CHAINLINE	55mm
HEADSET	UPPER: IS52 1 1/8", LOWER ZS56 BLOCKLOCK 1.5"
MAX CHAINRING	34T
REAR BRAKE	POST MOUNT, DIRECT 200mm
MAX REAR TIRE WIDTH	66mm, 29 x 2.6"

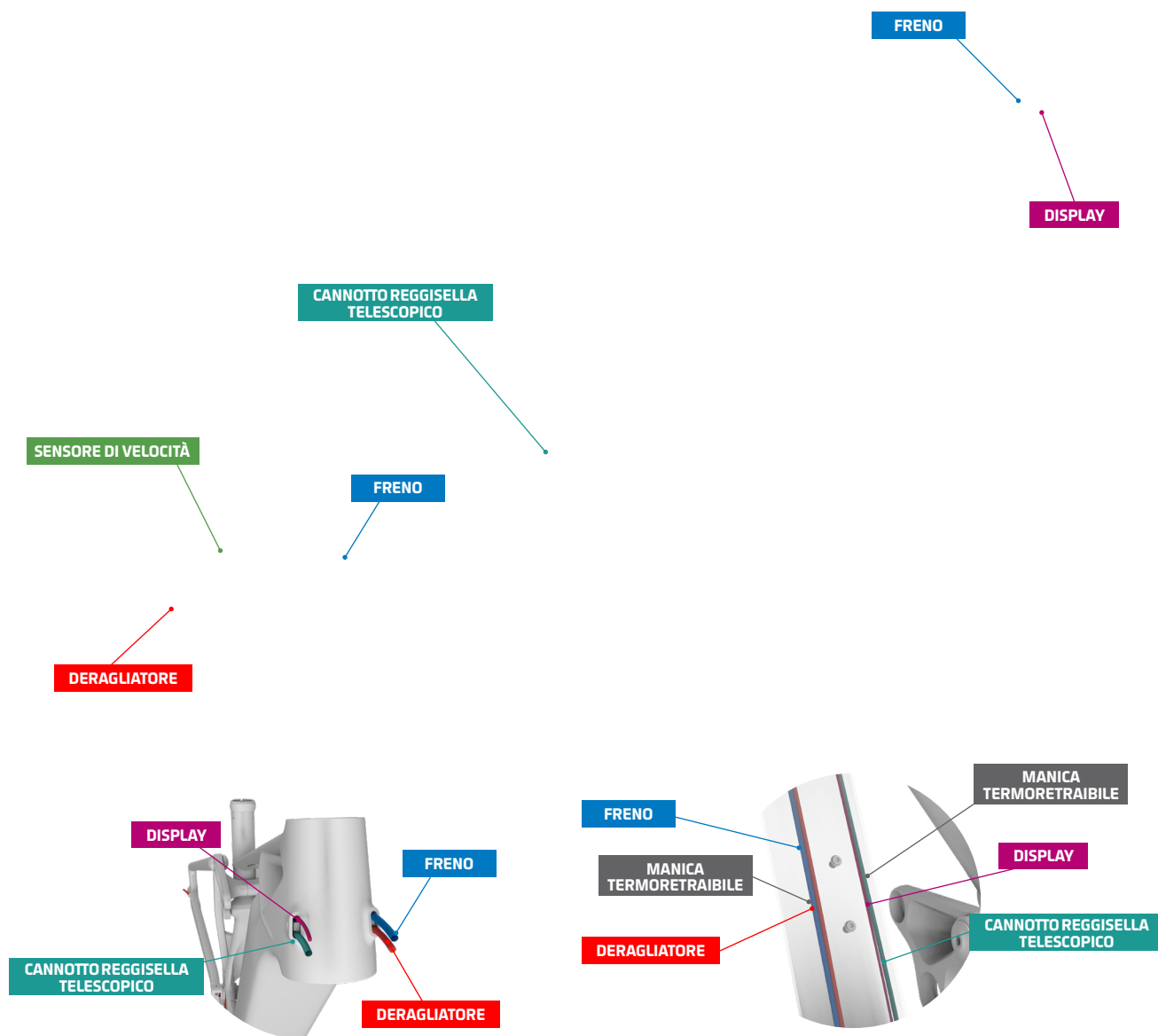
3. PROFONDITÀ DI INSERIMENTO CANNOTTO REGGISSELLA



DIMENSIONE TELAIO	MIN. (mm)	MAX. (mm)
XL	100	285
L	100	245
M	100	215
S	100	175

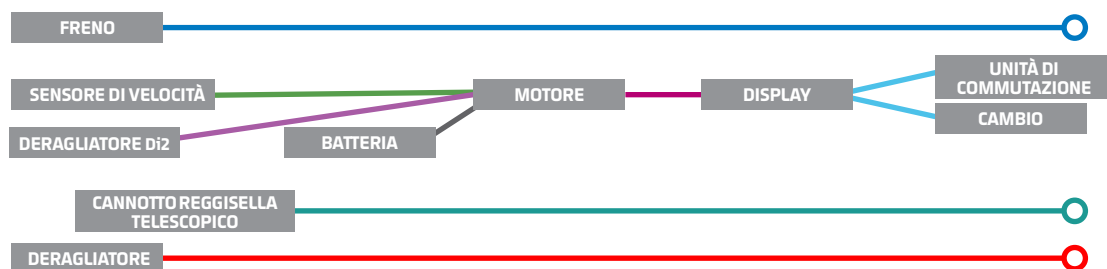


4. CABLAGGIO INTERNO



I cavi passano attraverso un manicotto interno.

5. SCHEMA COLLEGAMENTO CAVI





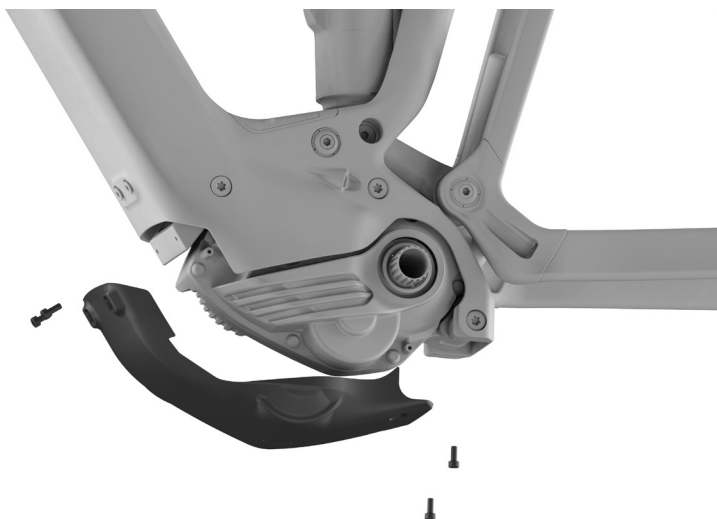
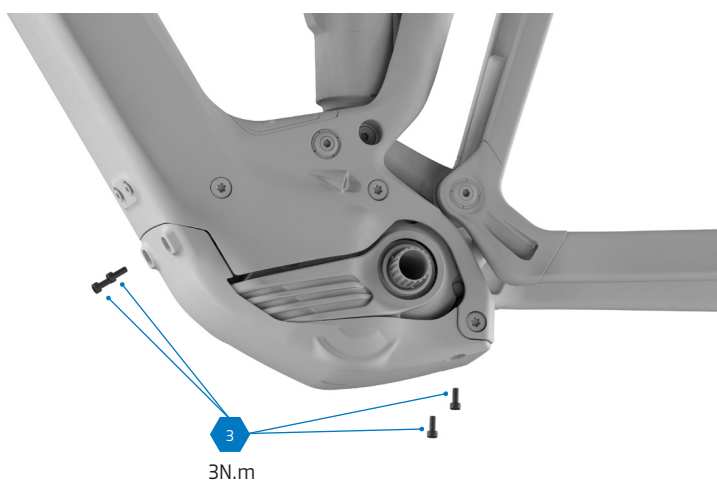
6. UNITÀ DI AZIONAMENTO

6.1. RIMOZIONE DEL COPERCHIO



1° STEP

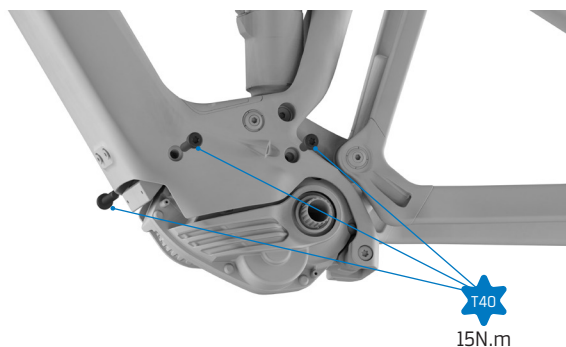
Svitare 4 viti e rimuovere il coperchio.



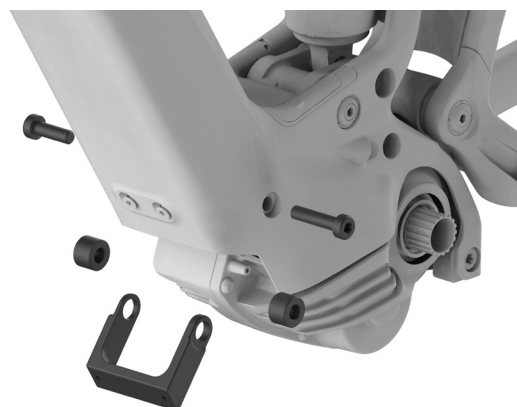
2° STEP

Rimuovere il coperchio.

6. 2. RIMOZIONE DELL'UNITÀ DI AZIONAMENTO



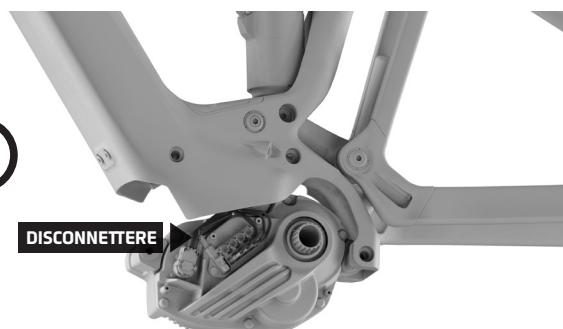
1° STEP Svitare 4 viti e rimuovere la staffa del motore.



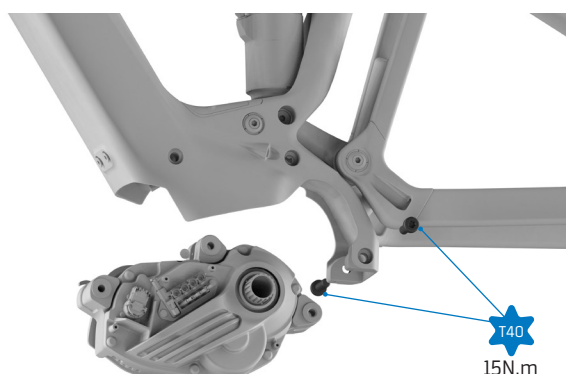
2° STEP Ruotare leggermente il motore e scollegare le connessioni.



DISCONNETTERE



Utilizzare sempre lo strumento Shimano TL-EW300 per collegare e scollegare i cavi nelle connessioni. I cavi sono estremamente fragili e se non si utilizza l'utensile corretto il cavo si romperà. Per ulteriori informazioni consultare i manuali Shimano. <https://si.shimano.com/#/>



3° STEP Svitare 2 viti e rimuovere il motore.

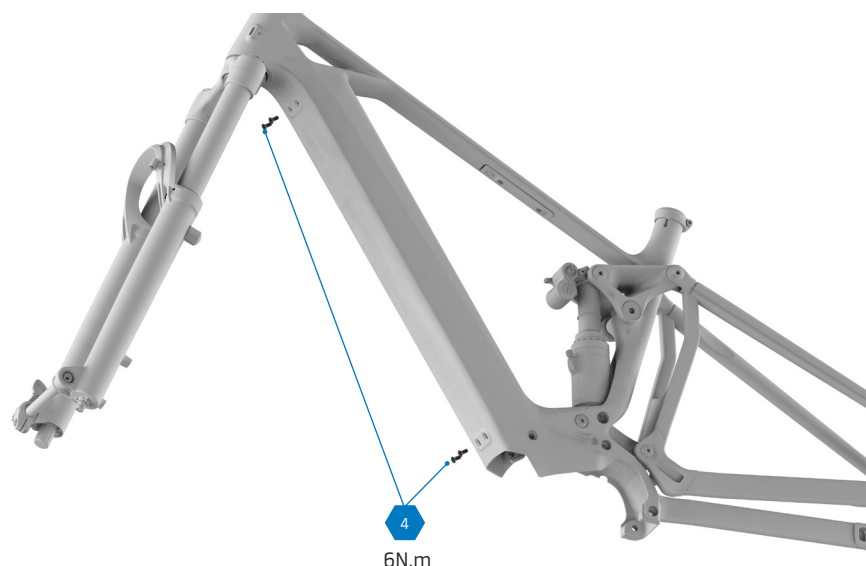


Assicurarsi di collegare le spine fittizie a qualsiasi porta E-TUBE inutilizzata.

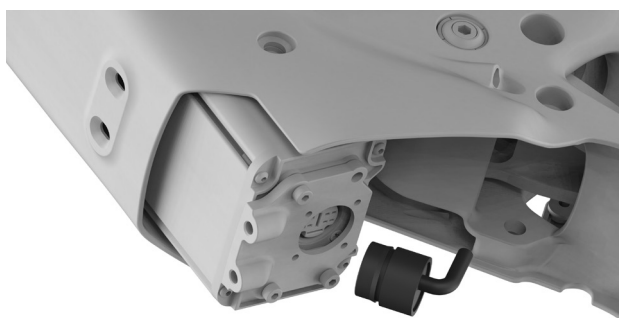


7. SMONTAGGIO DELLA BATTERIA

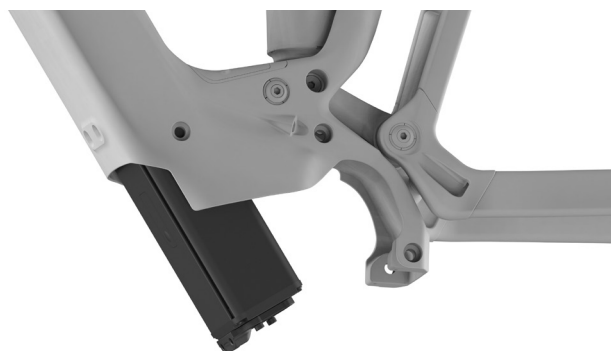
Seguire i passaggi 6.1 e 6.2



1° STEP Svitare 4 viti.



2° STEP Disconnettere la connessione.



3° STEP Estrarre la batteria.



8. CONNESSIONE LUCE (OPZIONALE)



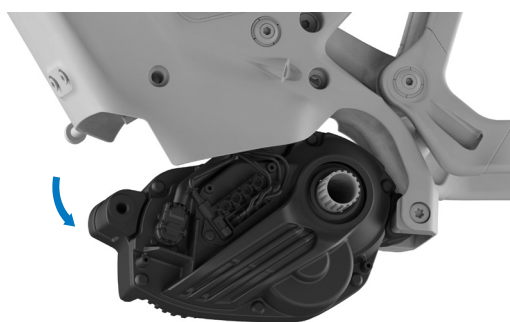
Questa bicicletta è dotata di porta di collegamento per l'illuminazione anteriore e posteriore opzionale.



Utilizzare sempre lo strumento Shimano TL-EW300 per collegare e scollegare i cavi nelle connessioni. I cavi sono estremamente fragili e se non si utilizza l'utensile corretto il cavo si romperà.

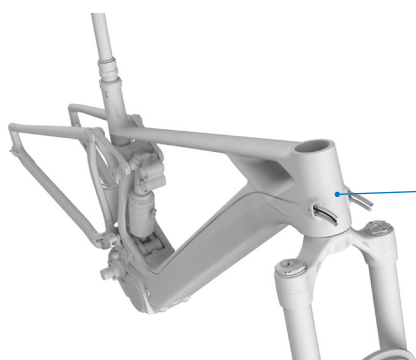


Per ulteriori informazioni consultare i manuali Shimano. <https://si.shimano.com/#/>



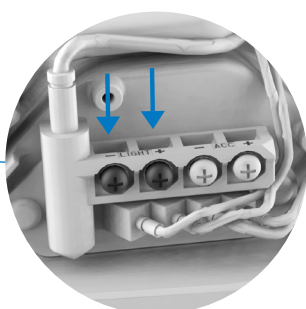
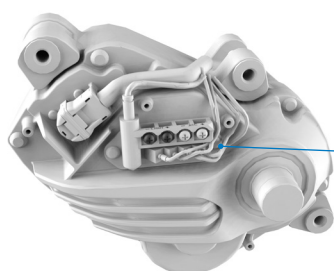
STEP 0

Seguire i passaggi 6.1 e 6.2 per lasciare l'unità di azionamento con i connettori accessibili.



1° STEP

Instradare il cavo della luce attraverso il foro di ingresso in alto a destra.

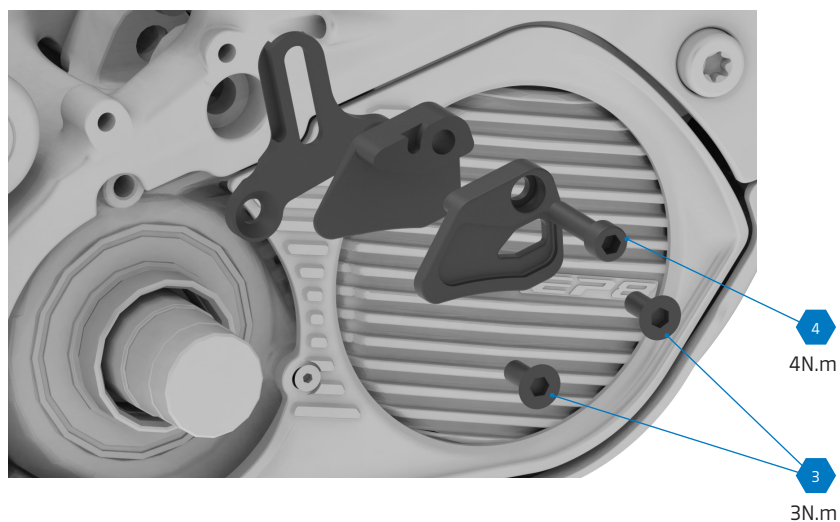


2° STEP

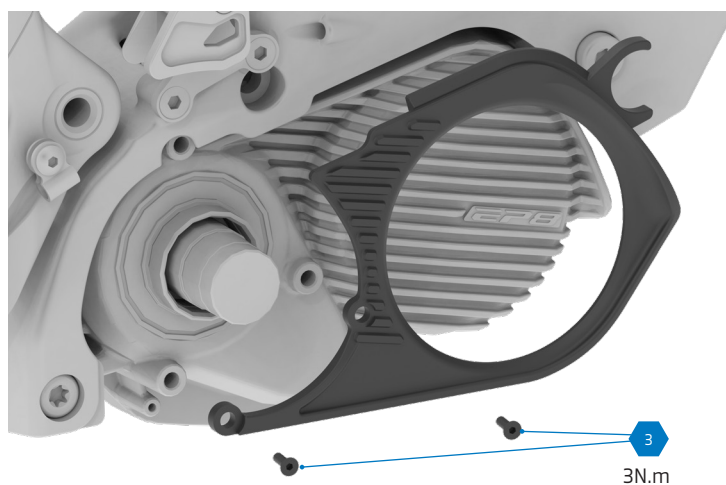
Collegare i fili connessi alla luce anteriore all'unità di azionamento seguendo le istruzioni di Shimano. <https://si.shimano.com/#/>



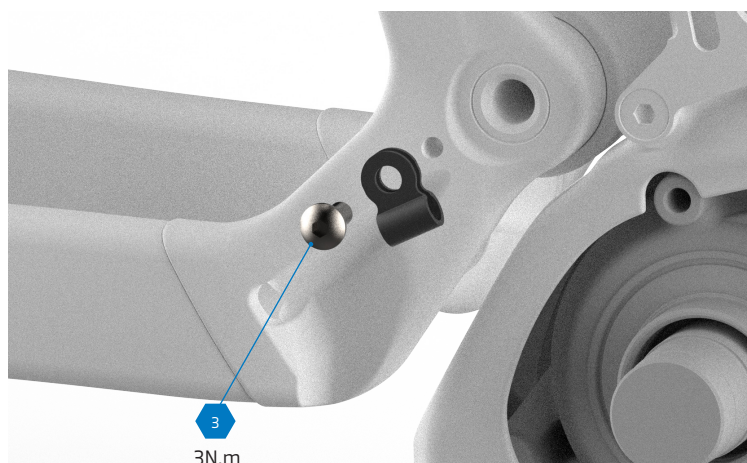
9. GUIDACATENA



10. COPERCHIO MOTORE LATO DESTRO

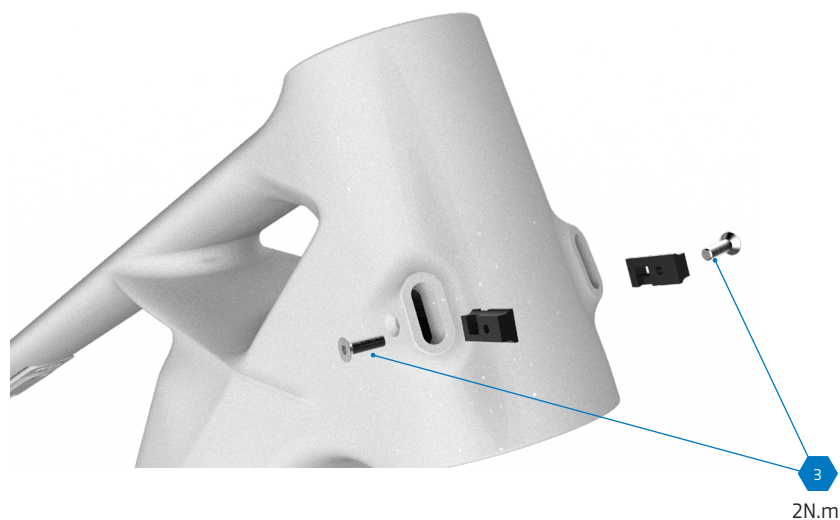


11. GUIDA CAVI DI INSTRADAMENTO

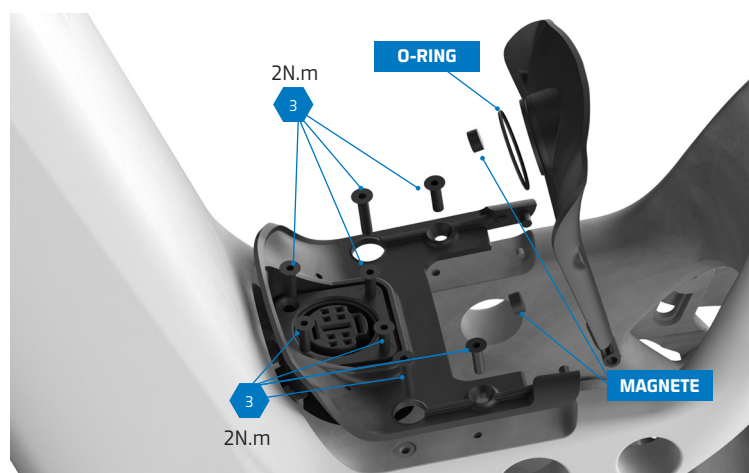




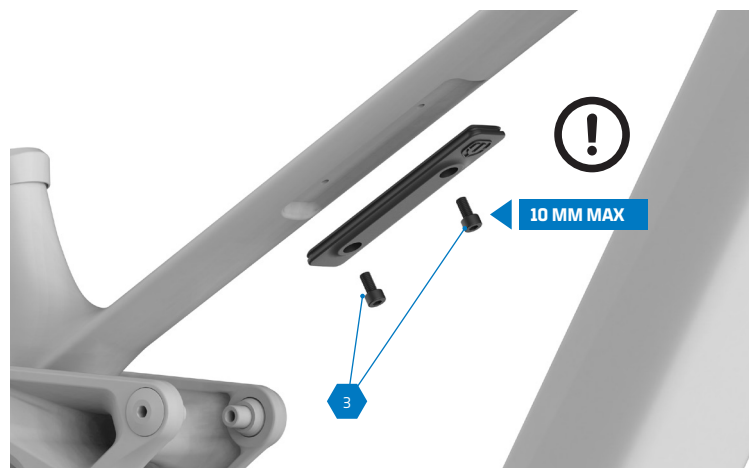
12. INGRESSO CABLAGGIO INTERNO



13. COPERCHIO DELLA PORTA DI RICARICA

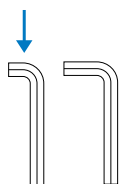


14. COPERCHIO FIDLOCK





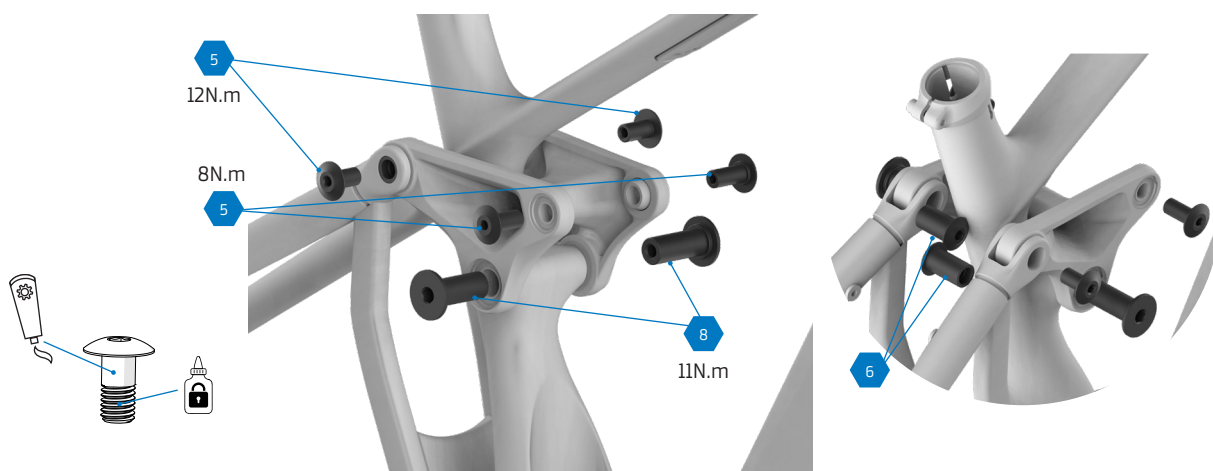
15. GUIDA ALL'INSTALLAZIONE DEI BRACCETTI SUPERIORI



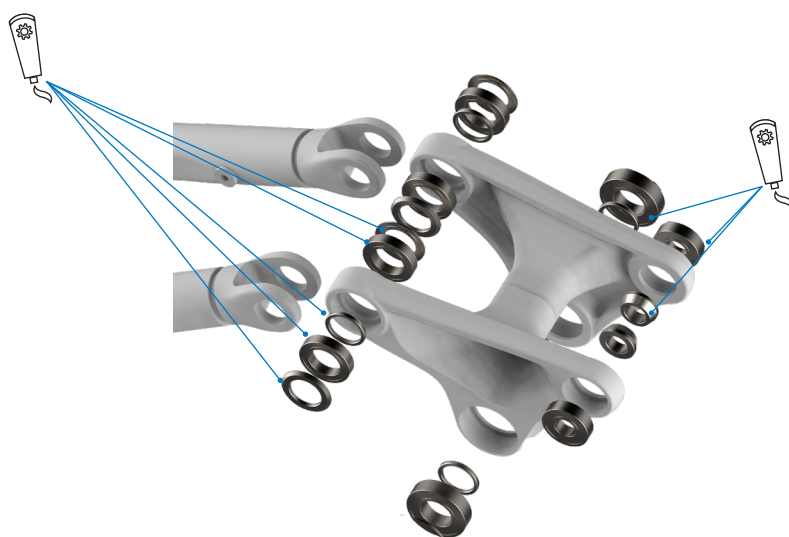
Per accedere ai bulloni del triangolo posteriore, l'ammortizzatore deve essere rimosso o utilizzare un set di chiavi esagonali tozze.



Per lo smontaggio dell'ammortizzatore posteriore, rilasciare prima tutta la pressione dell'aria.



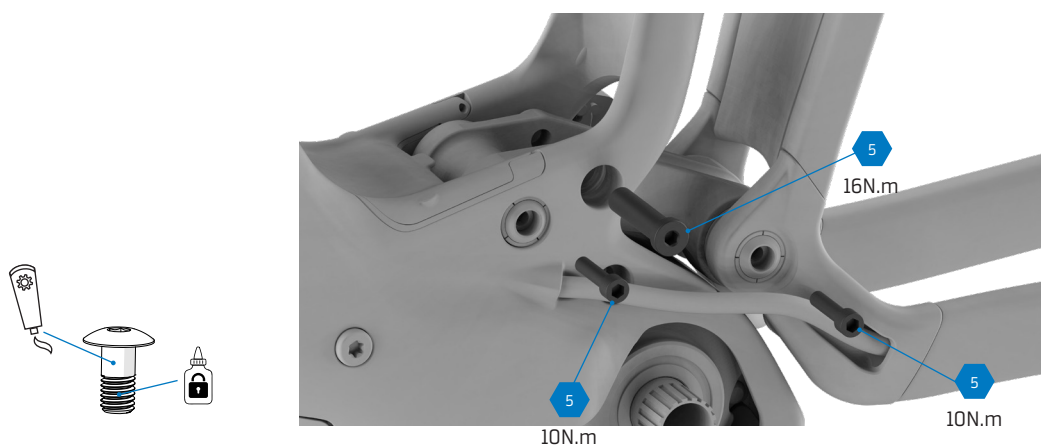
Per i bulloni principali applicare grasso all'albero e Loctite 243 o simili alle filettature.



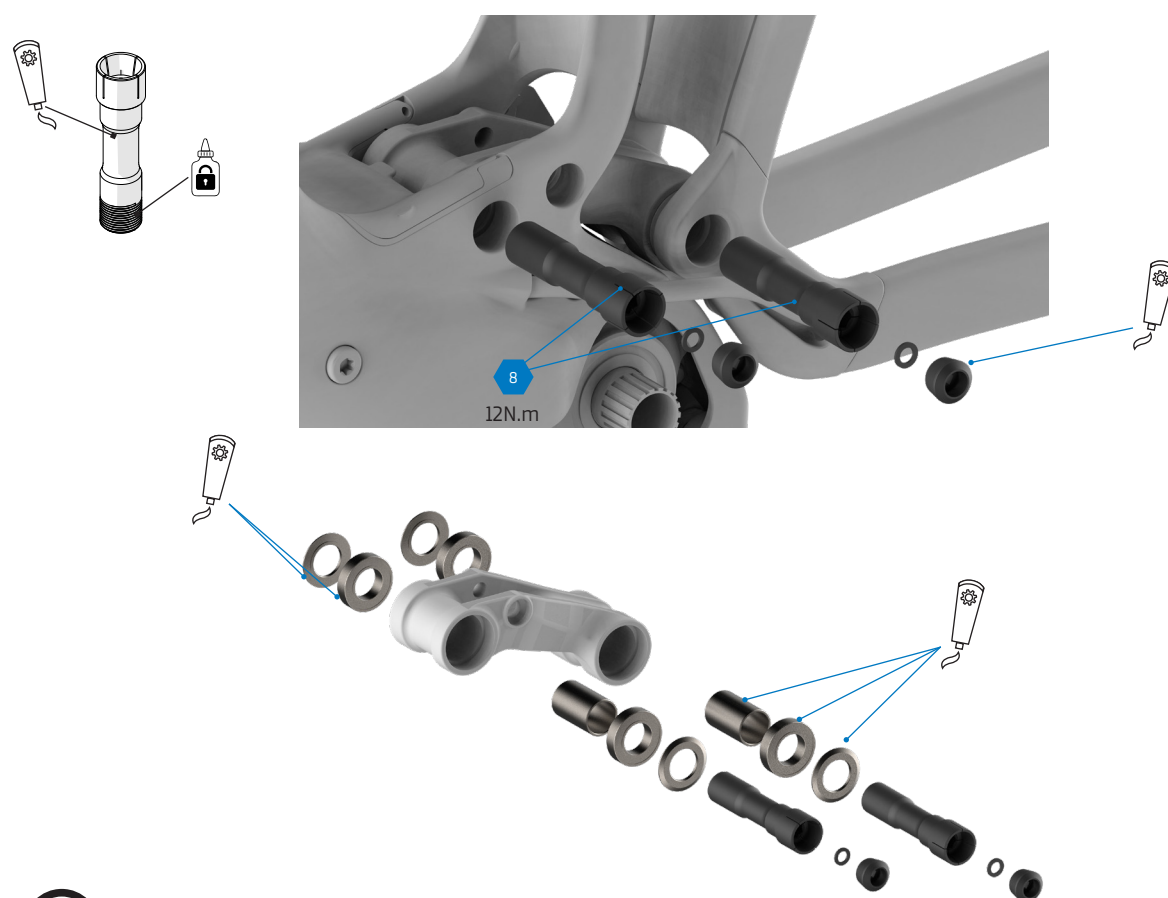
Applicare grasso su tutti i cuscinetti e distanziali.



16. GUIDA ALL'INSTALLAZIONE DEI BRACCETTI INFERIORI



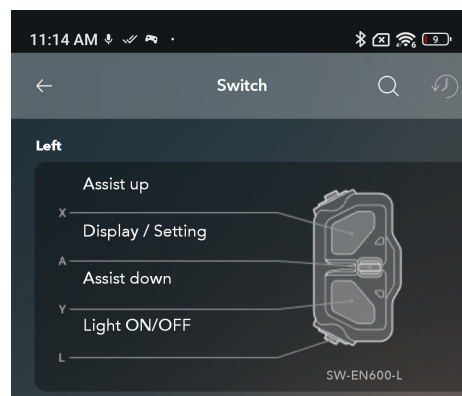
❗ Per i bulloni principali applicare grasso all'albero e Loctite 243 o simili alle filettature.



❗ Applicare grasso su tutti i cuscinetti e distanziali.

17. UNITÀ DI COMMUTAZIONE

Il telecomando Shimano SW-EN600-L ha le seguenti funzioni.



18. REGOLAZIONE FINE DEL DERAGLIATORE POSTERIORE

1. Accendi la bici.
2. Sposta il deragliatore posteriore sulla 5ª posizione del pignone.
3. Accedi al menu Impostazioni premendo a lungo il pulsante di scorrimento del Display.
4. Vai a Impostazioni > Regola
5. Mentre si gira la guarnitura anteriore, utilizzare le leve dell'interruttore di cambio per microregolare il deragliatore.
6. Conferma le impostazioni ed esci dal menu Impostazioni.





19. CONNETTIVITÀ

19.1. ABBINAMENTO DELLO SMARTPHONE

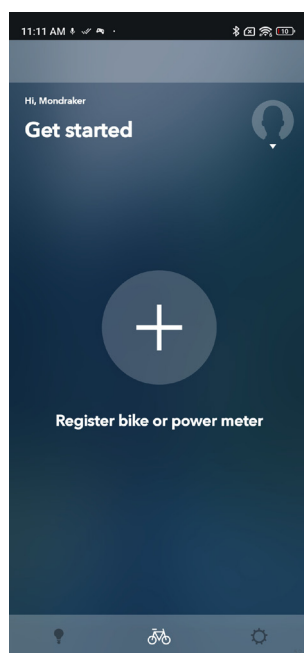


Prima della prima corsa si consiglia di ricaricare completamente la bici.

Con l'applicazione per smartphone E-TUBE PROJECT Cyclist, sarai in grado di personalizzare le impostazioni della tua Mondraker Crusher e di eseguire attività di manutenzione.

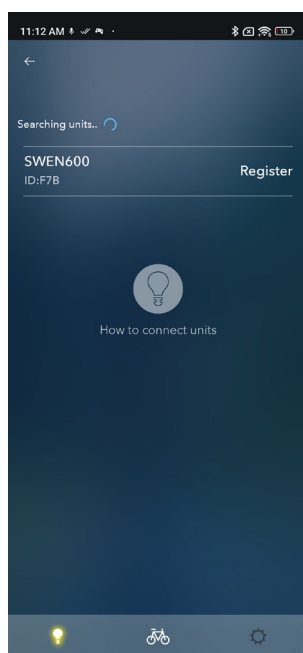
Un manuale utente più dettagliato è disponibile sul sito web di Shimano. Cerca E-TUBE PROJECT Cyclist per scaricare l'ultima versione.

1° STEP



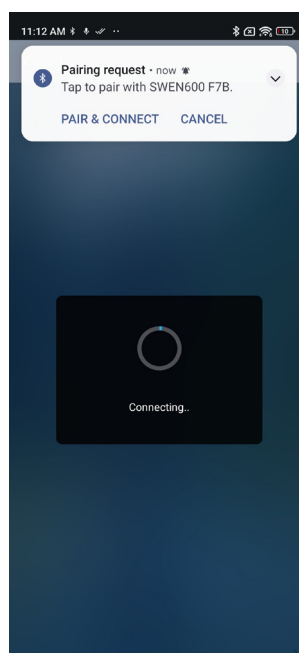
Tocca l'icona + e alimenta la bici.

2° STEP



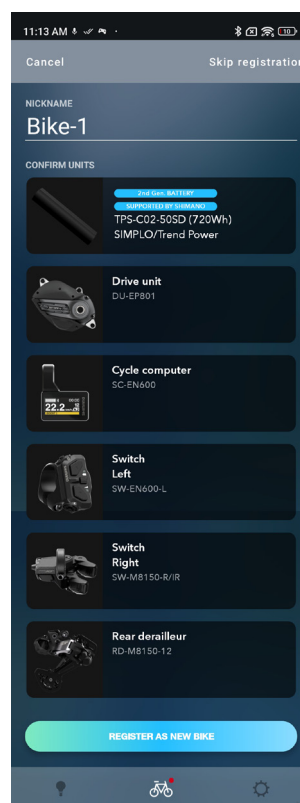
Selezionala dall'elenco.

3° STEP



Consenti le connessioni.

4° STEP





19.2. ABBINAMENTO AL DISPOSITIVO GPS

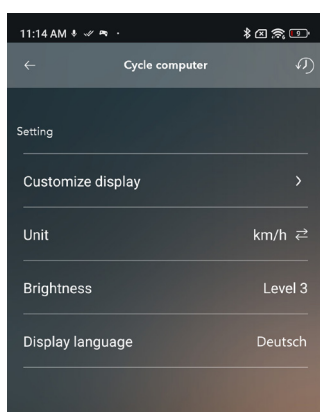
1. Per collegare la tua bici a un computer GPS per bici devi prima accenderla.
2. Accendi la tua unità GPS e seleziona nel menu "Aggiungi sensori" > "Cerca tutti"
3. Selezionare il sensore "Shimano STEPS".
4. Il tuo computer Cycle è ora connesso alla tua Mondraker Crusher!



20. IMPOSTAZIONI

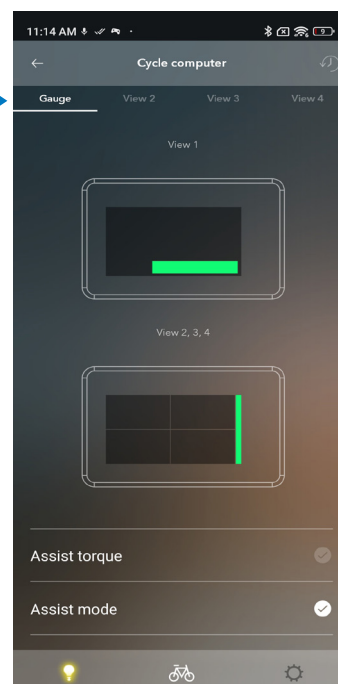
20.1. CAMBIA LA LINGUA DI VISUALIZZAZIONE, LE INFORMAZIONI E LE UNITÀ

1. Accendi la bici e collegala al tuo smartphone.
2. Premi sulla bici salvata in precedenza.
3. Seleziona il menù PERSONALIZZA
4. Scorri verso il basso e seleziona Cycle Computer
5. Seleziona le unità preferite, la luminosità del display e la lingua.



5° STEP

È possibile personalizzare i dati di visualizzazione ogni 4 pagine.

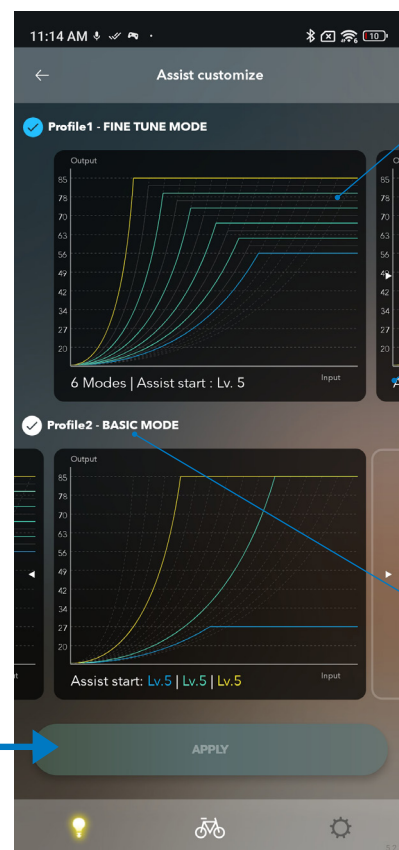




20.2. CONFIGURAZIONE DELLE MODALITÀ E DEI PROFILI DI ASSISTENZA.

Shimano ha la possibilità di personalizzare l'alimentazione in ingresso da parte dell'unità di azionamento consentendo all'utente di creare diverse modalità di assistenza e 2 profili.

1. Seleziona il menù PERSONALIZZA
2. Premi su Assist
3. Configura ciascun profilo
4. Applica per salvare le modifiche e inviarle alla tua bicicletta.



3° STEP

Il primo profilo ha una modalità multiassistenza per impostazione predefinita. È possibile modificare il numero di livelli che vanno da 3 fino a 15 e l'intensità di ciascuna linea singolarmente.

All'interno di un profilo puoi salvare diverse configurazioni, ma solo una verrà caricata sulla tua bici.

Il secondo profilo ha una modalità di assistenza di base. È possibile modificare l'intensità dei 3 livelli.

Durante l'applicazione, nella tua bicicletta verranno caricati il Profilo 1 e il Profilo 2.



20.3. CAMBIO TRA PROFILI

Una volta caricati i profili, puoi scegliere se utilizzare il Profilo 1 o il Profilo 2 sulla tua bici.

Per selezionarli:

1. Accendi la bici.
2. Accedi al menu Impostazioni premendo a lungo il pulsante di scorrimento del Display.
3. Passare alla modalità Assistenza premendo il pulsante Giù 8 volte.
4. Accedi alla modalità Assistenza premendo Modalità di Visualizzazione.
5. Scegli tra i Profili e premere il pulsante Visualizza per convalidare la selezione.





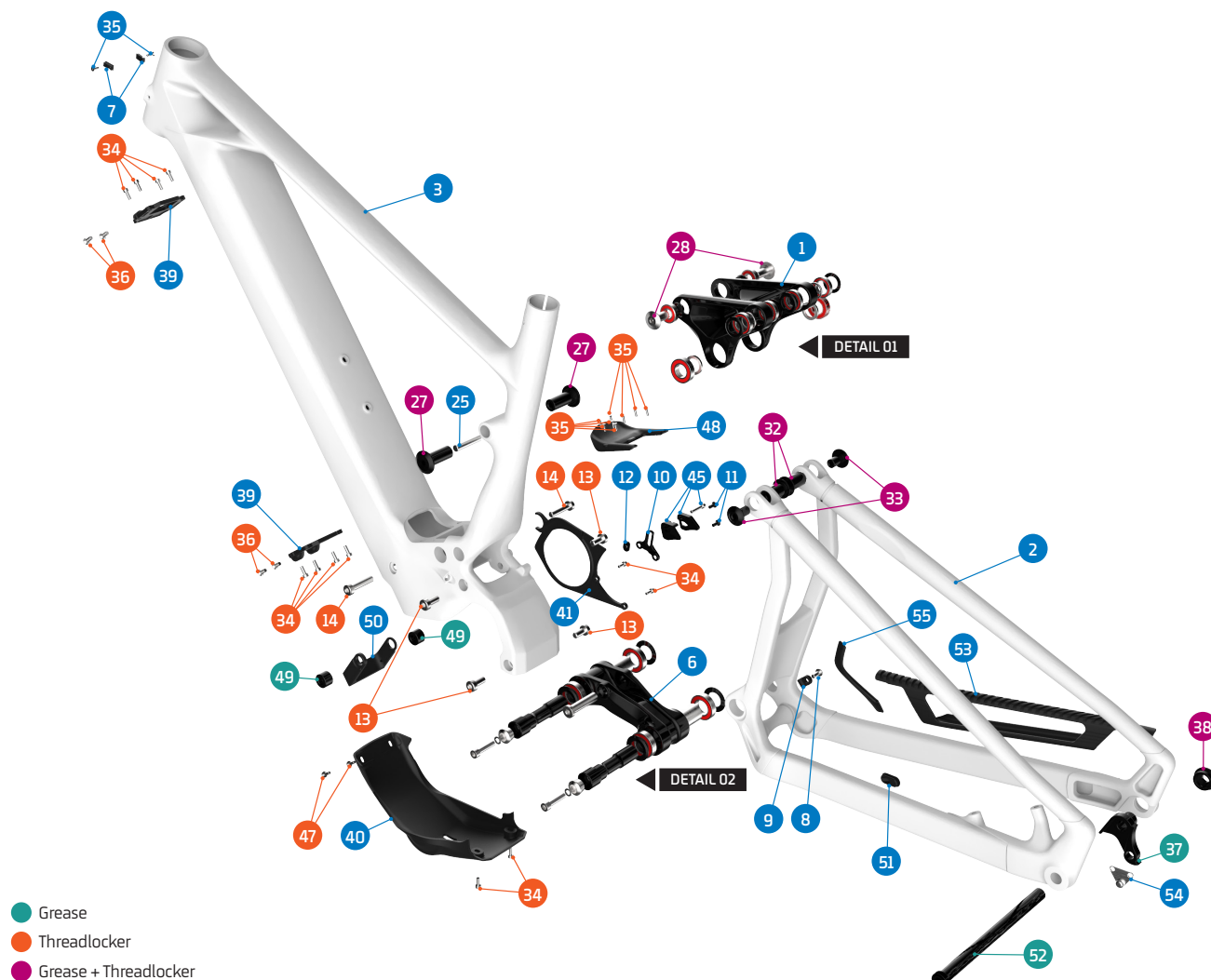
21. AUTO SHIFT (CAMBIO AUTOMATICO)

Premendo il pulsante Shift mode si passa dalla modalità Manuale, Auto 1 e Auto 2.





22. SPARE PARTS



● Grease

● Threadlocker

● Grease + Threadlocker

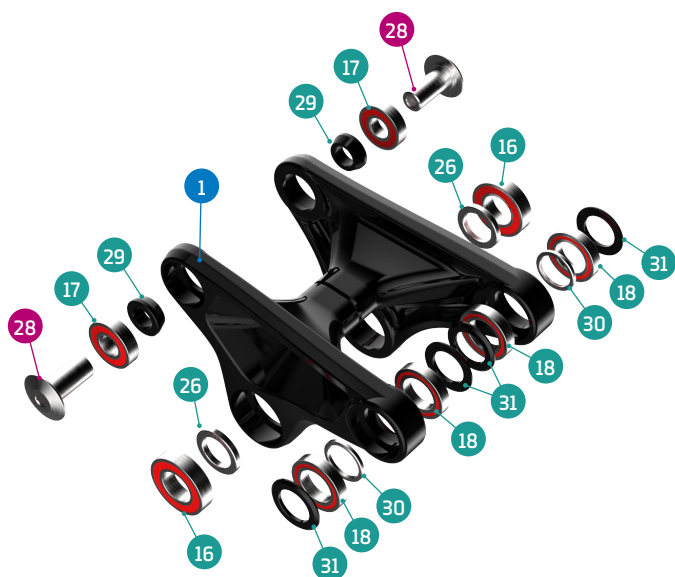
Apply grease to the shaft, and locker to the threads

ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
1	UPPER LINK	1	099.20039	
2	REAR TRIANGLE	1		
3	FRONT TRIANGLE	1		
6	LOWER LINK	1	099.20040	
7	HEADTUBE CABLE CLAMP	2	SET 6	
8	BOLT M5x12L-R11F	1		3Nm
9	RT CABLE GUIDE	1	099.22064	
10	CHAINGUIDE SLIDING MOUNT	1	SET 10	
11	CHAINGUIDE SCREW M5x12L	2	SET 10	3Nm
12	CHAINGUIDE SLIDING NUT	1	SET 10	
13	MOTOR BOLT 18MM	4	SET 8	15Nm
14	MOTOR BOLT 36MM	2	SET 8	15Nm
15	BEARING 30x17x7	4	SET 1	
16	BEARING 28x15x7	2	SET 1	
17	BEARING 22x10x6	2	SET 1	
18	BEARING 24x15x5	4	SET 1	
19	LOWER LINK SPACER 22x17x30L	2	SET 4	
20	LOWER LINK SHIELD 27x15x2	4	SET 4	
21	LOWER LINK COLLET BOLT	2	SET 4	12Nm
22	LOWER SHOCK BOLT	1	099.21012 / SET 2	16Nm
23	TAPER NUT	2	SET 4	
24	BOLT M6x25L-P11M	2	SET 4	10Nm
25	UPPER LINK THREADED	1	SET 3	
26	BEARING SPACER 22x15x3	2	SET 3	
27	UPPER LINK SEATTUBE AXLE	2	SET 3	11Nm
28	UPPER SHOCK BOLT	2	SET 2	8Nm

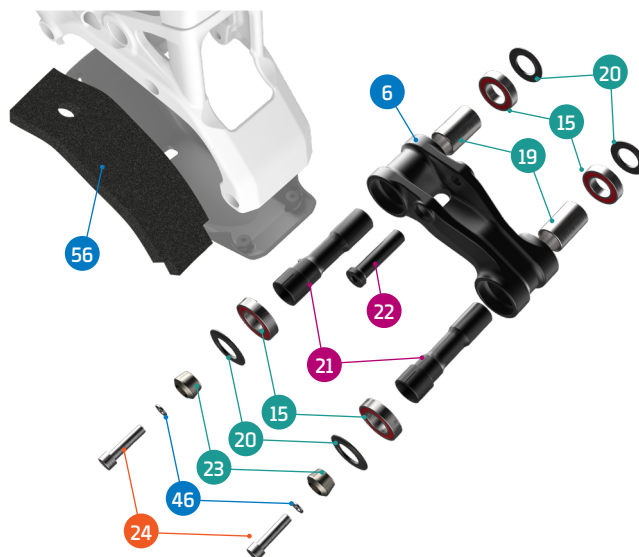
ITEM No.	DESCRIPTION	QTY.	PART NUMBER	TORQUE
29	SHOCK SPACER 17x10x6	2	SET 2	
30	BEARING SPACER 19x15x2	2	SET 3	
31	BEARING SPACER 24x15x2	2	SET 3	
32	UPPER LINK RT BOLT	4	SET 3	
33	UPPER LINK RT BOLT	2	SET 3	12Nm
34	BOLT M5x10L-P-S	12		3Nm
35	BOLT M3x10L-M-S	10	SET 6	2Nm
36	BATTERY BRACKET SCREW	4	SET 9	6Nm
37	HANGER	1	SET 5	
38	HANGER NUT	1	SET 5	4Nm
39	SIMPLO 720 Wh BRACKET	2	099.24056	
40	EP801 LOWER MOTOR COVER	1	099.23050	
41	EP801 RIGHT SIDE MOTOR COVER	1	099.24005	
45	CHAIN GUIDE BOLT	1	099.20010A	4Nm
46	COLLET WASHER SPACER	2	SET 4	
47	LOW PROFILE BOLT	2	099.24007	3Nm
48	CHARGING PORT COVER	1	099.24006	
49	MOTOR SPACER	2	SET 7	
50	MOTOR BRACKET	1	SET 7	
51	GROMMET	1	989.13010	
52	REAR AXLE 12x148 P1.75 L180	1	112.90022	
53	CHAIN PROTECTOR	1	099.20017	
54	ROTOR MAGNET SPEED SENSOR	1	124.20401	
55	YOKE PROTECTOR	1	099.20056	
56	SPONGE MOTOR PROTECTOR	1	099.20086	



DETAIL 01

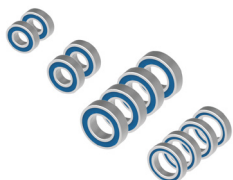


DETAIL 02



SET 1

ZERO BEARING KIT 20



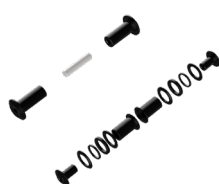
SET 2

SHOCK HARDWARE KIT 13



SET 3

UPPER LINK KIT 26



SET 4

LOWER LINK KIT 24



SET 5

HANGER M068 + NUT



PART NUMBER	DESCRIPTION	COMPONENTS
099.20101	SET 1: ZERO BEARING KIT 20	BEARING 6903V-2RS, 30x17x7 (x4) / BEARING 6802V-2RS, 24x15x5 (x 4) / BEARING 6902V-2RS, 28x15x7 (x2) / BEARING 6900V-2RS, 10x22x6 (x2)
099.20201	SET 2: SHOCK HARDWARE KIT 13	SHOCK BOLT (x2) / SPACER, 10x17x6 (x2) / SHOCK BOLT (x1)
099.20301	SET 3: UPPER LINK KIT 26	SPACER, 15x19x21 (x2) / SPACER, 15x24x2 (x4) / M8 THREAD AXLE (x1) / LINK AXLE (x2) / PIVOT AXLE, 26MM (x2) / PIVOT AXLE, M12 (x2) / SPACER, 15x22x3 (x2)
099.20401	SET 4: LOWER LINK KIT 24	TAPER NUT (x2) / SPACER (x2) / SCREW BOLT (x2) / SPACER, 15x27x2 (x4) / MAIN PIVOT AXLE, 17X60 (x2) / SPACER, 17x22x30L (x2)
099.00055	SET 5: HANGER M068 + NUT	HANGER (x1), HANGER NUT (x1)
099.24001	SET 6: GUIA CABLE KIT CRUSHER	HEADTUBE INTERNAL CABLE CLAMP (x2) / SCREW BOLT (x2)
099.24002	SET 7: MOTOR SPACERS & BRACKET SET	MOTOR MOUNT FRONT BOLT SPACER (x2) / SKID PLATE MOUNTING BRACKET (x1)
099.24003	SET 8: MOTOR BOLTS SET	MOTOR MOUNTING BOLT, 18MM (x4) / MOTOR MOUNTING BOLT, 36MM (x2)
099.24004	SET 9: BATTERY BOLTS SET	BATTERY BRACKET FIXING SCREW (x4)
099.20081	SET 10: CHAIN GUIDE PLATE + BOTLS	CHAINGUIDE SLIDING MOUNT (x1) / CHAINGUIDE MOUNTING SCREW CSUNK (x2) / CHAINGUIDE SLIDING NUT (x1)



23. DOMANDE FREQUENTI

QUALI AMMORTIZZATORI SONO COMPATIBILI CON CRUSHER?

Crusher è compatibile con tutti gli ammortizzatori a molla, ad aria, in linea o con piggy back come Fox Float, Float DPS, Float X, Float DPX2, RockShox Deluxe, Vivid, Super Deluxe Aria o Molla così come Float X2, DHX2 o Öhlins TTX Air o TTX22. Crusher è dotato di ammortizzatori di dimensioni metriche da 205 x 65 mm con attacco superiore Trunnion e bulloneria inferiore da 25 x 10 mm.

QUAL È LA CORSA MASSIMA DELLA FORCELLA CHE POSSO UTILIZZARE SU CRUSHER?

Crusher è compatibile con forcelle fino a 170 mm di escursione.

COME IL TELAIO DI CRUSHER DIFFERISCE DA QUELLO DI CRAFTY CARBON?

La geometria, la cinematica delle sospensioni e la corsa sono tutte uguali, anche se Crusher utilizza un forcellone posteriore in alluminio e non al carbonio come Crafty Carbon.

È POSSIBILE MONTARE UN RANGE EXTENDER SUL TELAIO?

Crusher non ha staffe specifiche per l'installazione di un range extender e non possono essere installate.

POSSO EFFETTUARE MODIFICHE ALLA BICI COME, PER ESEMPIO, AGLI INGRANAGGI O AI PNEUMATICI?

Le biciclette sono assemblate a mano presso la nostra sede Mondraker così come i parametri tecnici e la programmazione di ogni bicicletta sono impostati da noi per garantire delle prestazioni perfette e tutte le relative omologazioni. Le dimensioni della ruota e del pneumatico, il numero di velocità e i diversi numeri di pignoni, ecc., sono inseriti nel programma di impostazione di ogni bicicletta per una corretta performance. Qualsiasi modifica o aggiornamento del firmware del sistema deve essere effettuato da un rivenditore ufficiale Mondraker.

È POSSIBILE RIMUOVERE LA BATTERIA DA CRUSHER?

Crusher è stata focalizzata sulle prestazioni pure e progettata con un peso più leggero possibile, quindi la batteria è interna e non rimovibile. Per caricare la batteria sarà necessario collegare il caricabatterie direttamente alla porta della batteria sopra e sotto il tubo principale. Se, per qualsiasi motivo, è necessaria la rimozione della batteria, qualsiasi Concessionario Mondraker sarà in grado di estrarre la batteria rimuovendo prima il motore.

QUANTO TEMPO SARÀ NECESSARIO PER CARICARE COMPLETAMENTE LA BATTERIA?

Se la batteria è completamente scarica allo 0%, con il caricabatterie originale ci vogliono circa 5 ore per caricare completamente la batteria al 100%.

CHE TAGLIA DOVREI ACQUISTARE?

Le taglie variano da un rider all'altro. Ognuno ha le proprie preferenze così come importante è anche il modo in cui si guida la bici al momento di scegliere la taglia giusta. Di seguito si mostra una tabella con le taglie standard che possono essere utilizzate come linea guida:

S 1.58 - 1.68

M 1.67 - 1.76

L 1.75 - 1.86

XL 1.85 - 1.95

QUAL È LA LUNGHEZZA MASSIMA DEL REGGISELLA TELESOPICO CHE POSSO UTILIZZARE SU CRUSHER?

Consultare la tabella nella sezione 3 di questo manuale.

CHE TIPO DI MANUTENZIONE O VERIFICHE DI SICUREZZA RICHIEDONO I MOTORI?

Assolutamente nessuna. Inoltre, non è necessario lubrificare alcuna parte del gruppo di azionamento oppure smontarlo... Tutto quello che si deve fare è prendersene cura come una mountain bike tradizionale. Tuttavia, come precauzione applicabile a qualsiasi mountain bike, è importante ricordare che: le parti elettroniche e, in particolare, la zona del movimento centrale del gruppo motore non devono mai essere pulite con una macchina idropulitrice. Pertanto, non è possibile utilizzare acqua ad alta pressione per pulire direttamente l'asse delle pedivelle poiché le parti elettroniche dell'unità di trasmissione possono essere seriamente danneggiate.



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