

SHIMANO STEPS E8000

ASSEMBLY & SETTINGS





Technical specifications

Assembly

Charging port

Battery indicator

DU cover

Assembly tool

Compatibility chart





DRIVE UNIT

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DU-E8000

- Drive unit
- > 70Nm (max), 250W
- ► for RD only

SM-CRE80-B

Chain ring set
38T or 34T for
chainline 50 mm

SM-CRE80-B

Chain ring set38T or 34T forchain line 53 mm





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SM-CRE80-B

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SM-CRE80-B

Chain ring set38T or 34T forchain line 53 mm

[SM-CRE80-12 for M9100]





DESIGN OF FC



FC has dynamic chain engagement tooth design



DRIVE UNIT

SM-CDE80 - Chain device (optional)

- for chain line 53 mm assembly with back plate to the drive unit
- for chain line 50 mm and 53 mm; possibility for direct mount to the frame
- ▶ for chainline 50 mm: no backplate possible



SM-DUE10

CN-HG701-11

CN-E6090-10

Speed sensor

► 11-speed chain

10-speed chain

30-10-18 STEPS E8000 - assembly & settings training

CRANKS AND COVER



FC-E8050

Hollow crank arm set (two piece crank arm)

FC-E8000

Crank arm set (two piece crank arm)



COVER A



SM-DUE80-A

▶ Left DU cover



Right cover





COVER B

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SM-DUE80-B

▶ Left DU cover

SM-DUE80-B

Right cover





EXTERNAL BATTERY

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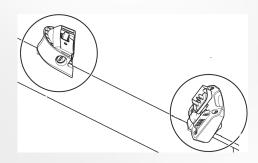
BT-E8010

- Down tube battery
- 504Wh / 36V
- Black

BM-E8010

Battery mount





INTERNAL BATTERY



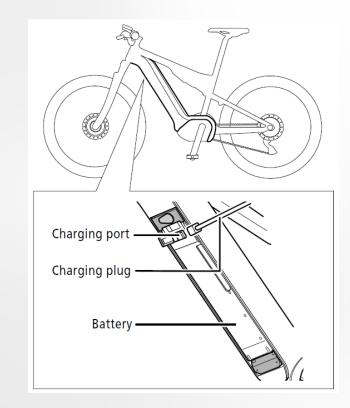
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BT-E8020

- Internal battery
- > 504Wh / 36V

BM-E8020

Battery mount



DISPLAY AND SWITCH



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SW-E8000-L

Switch



Display





Mechanical shifting or Electronic DI2 shifting

SWITCH

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Intuitive operation

- Power mode change "like shifting"
- Ergonomic switch position for MTB riding

Power walk mode

Motor assist available to push bike

Wireless programmability

- Customize through E-tube project application with smartphone and tablet
- Switch SW-E8000-L is different from XT DI2 switch in appearance and firmware.



DISPLAY

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Intuitive operation

- Bottom button to switch modes
- Modes support by use of colors

Dynamic feel

- Moving visuals when switching between modes
- Power input visualized by colored bar

Wireless programmability

 Customize through E-tube project application with smartphone and tablet



Eco

Riding support while enabling maximum range

Trail

Gradual support for encouraging sportive riding

Boost

Full support for maximum boost and uncompromised climbing

DRIVE UNIT: DYNAMICALLY COMPACT

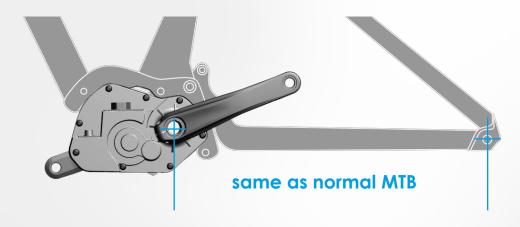


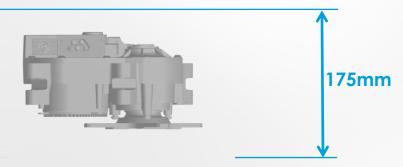
Short chain stays

 Shorter chain stay length ensuring better maneuverability

Narrow Q-factor

 Compact and light weight design for better handling with same
Q-factor as current XT

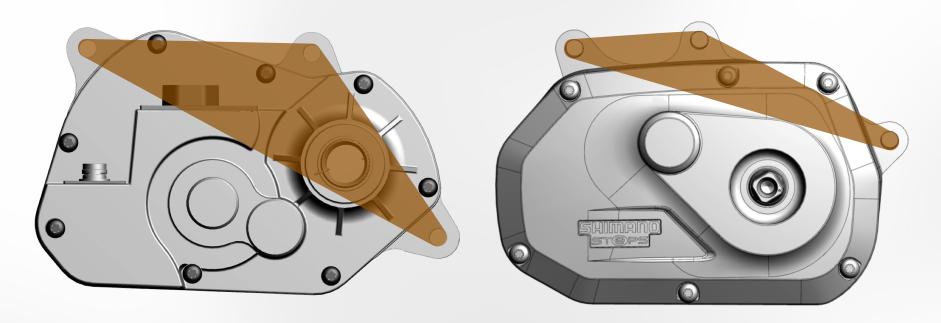




DRIVE UNIT

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Optimally balanced mount positions with efficient power transfer





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ASSEMBLY



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DU is attached with 6 M8 standard bolts to the frame

▶ Bolts are not supplied by Shimano



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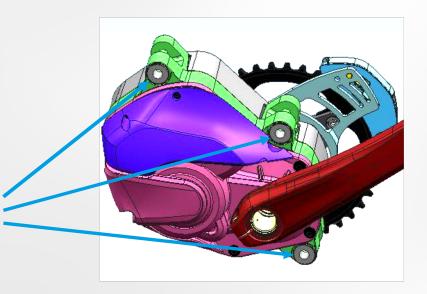
Bolts must be at least 8 windings in the mounting portion of DU

Frame requirement: 50 ± 0.25 mm

Max.size of DU: 49.5 mm

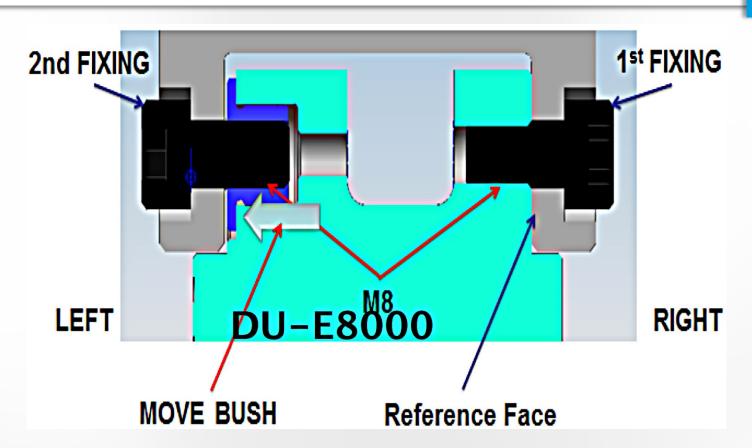
Difference is balanced by flange bushing

Flange bushing



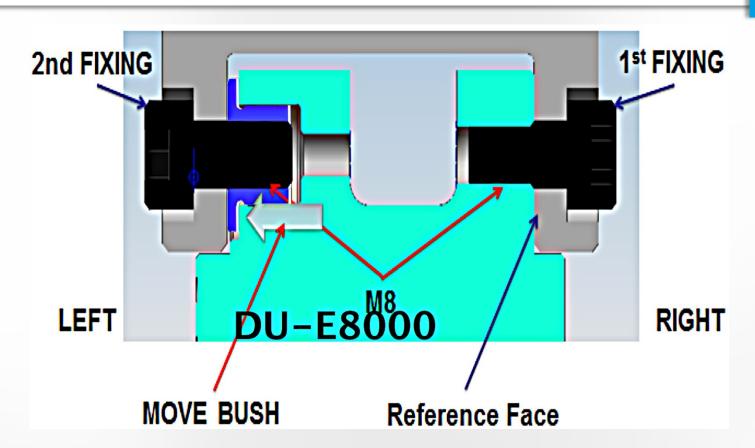


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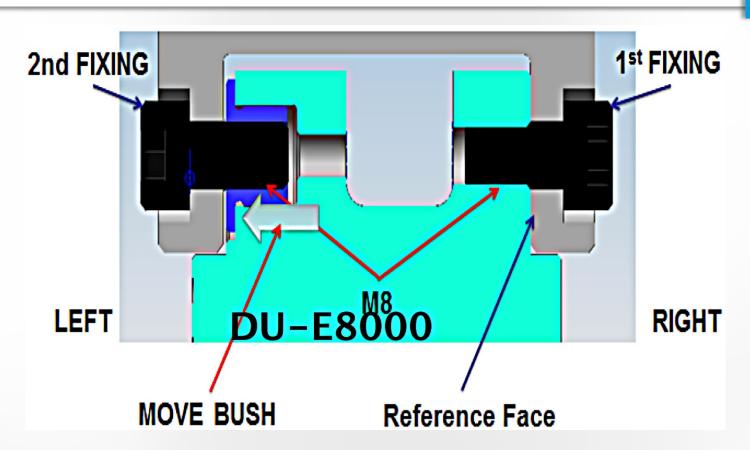


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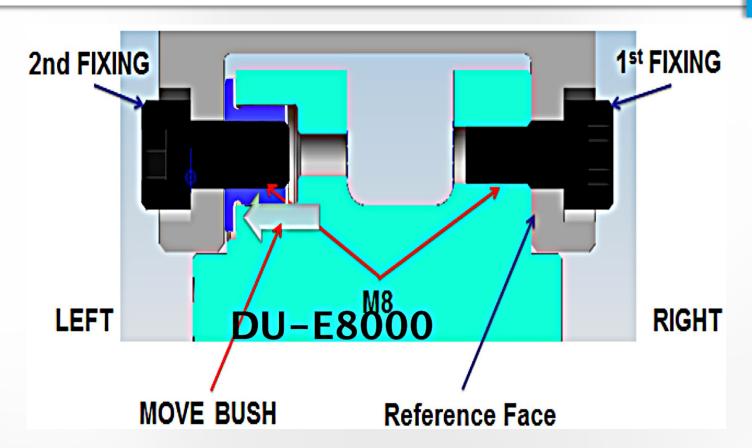


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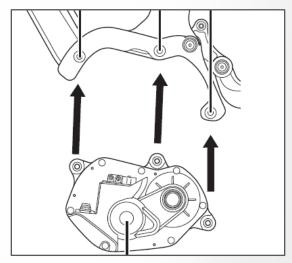


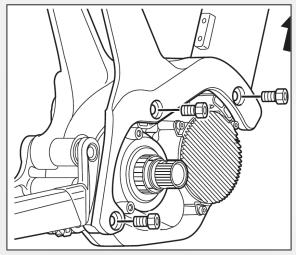


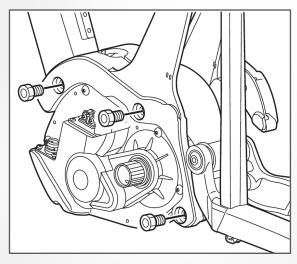
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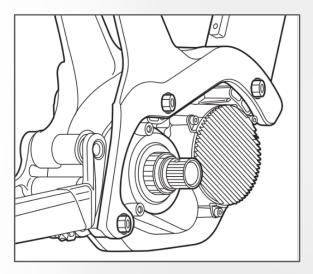


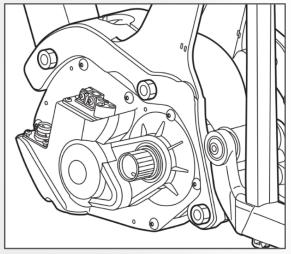


First insert the bolts on the right side

After this insert the bolts on the left side

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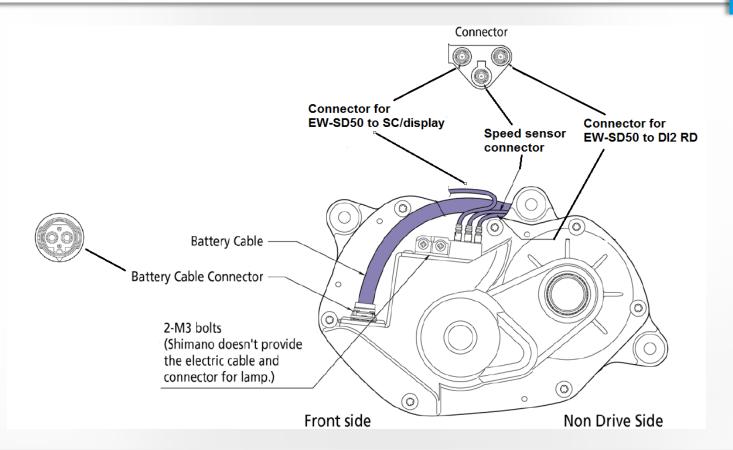
Then **tighten** the bolts on the right side

After this **tighten** the bolts on the left side

ASSEMBLY - CONNECTING CABLES



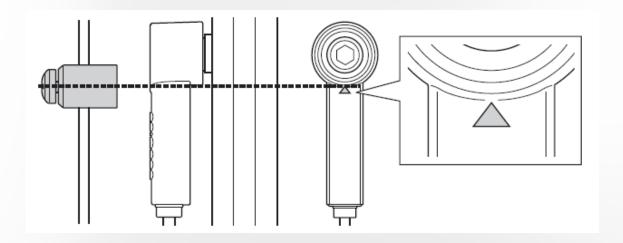
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ASSEMBLY – SPEED SENSOR

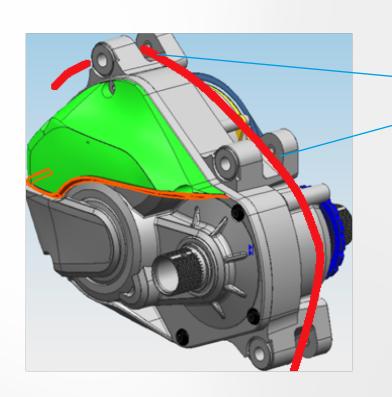
28

Mount the magnet aligned to the top of the triangle



ASSEMBLY - ROUTING CABLES



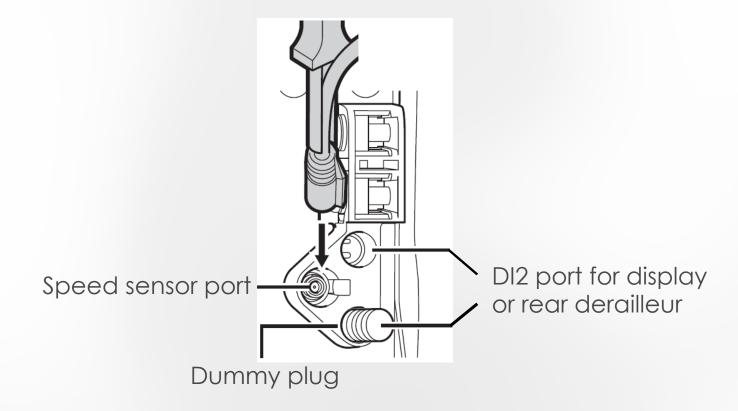


Cables can be routed between the attachment parts

ASSEMBLY – CONNECTION OF CABLES

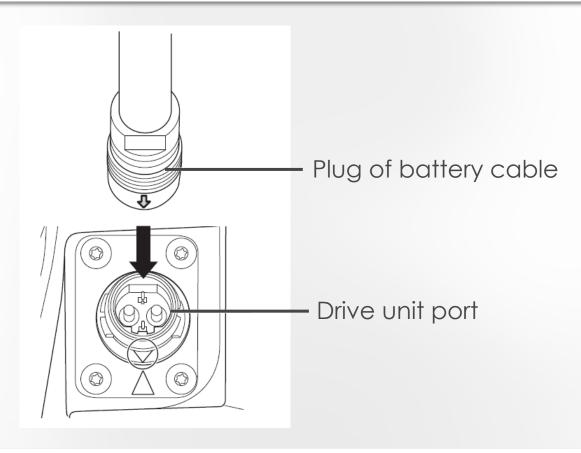


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ASSEMBLY – CONNECTING THE BATTERY CABLE

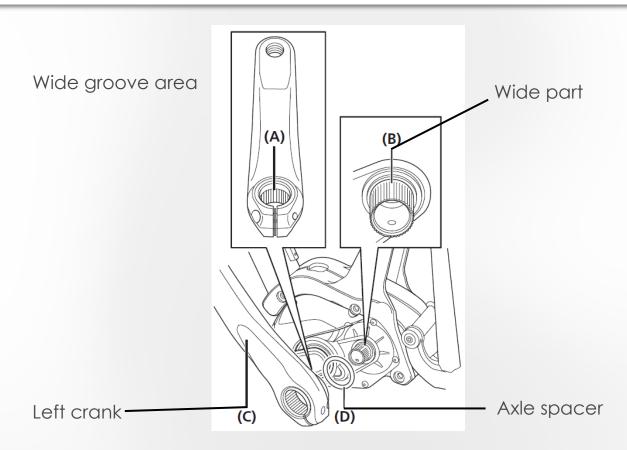




ASSEMBLY – INSTALLING THE LEFT CRANK

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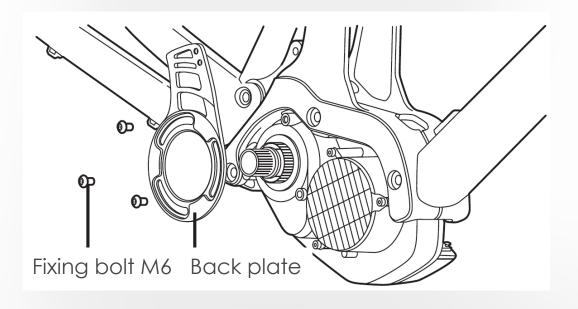
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ASSEMBLY - CHAIN DEVICE WITH BACKPLATE



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ASSEMBLY - CHAIN DEVICE WITH BACKPLATE

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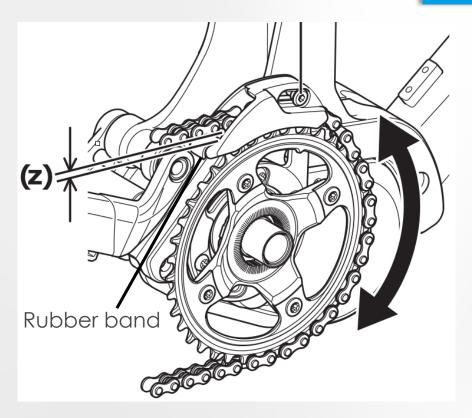




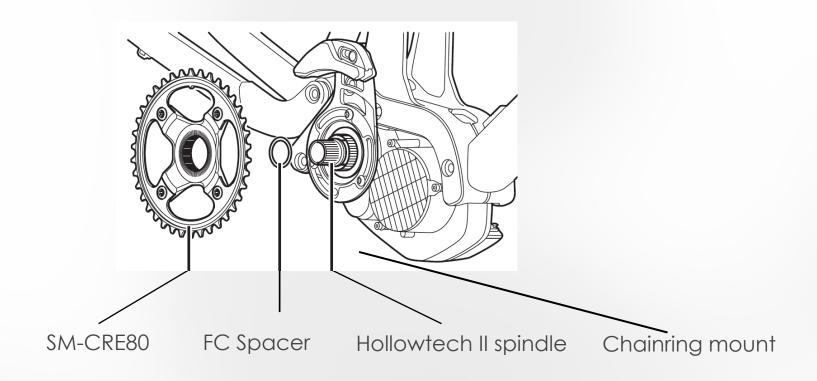
ASSEMBLY - FC AND CHAIN DEVICE

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- Distance (z) should be between 0 and 1 mm
- Adjustment has to be done on smallest sprocket
- Rear suspension must be completely extended



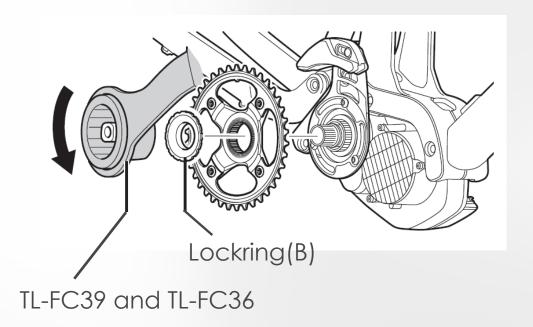
ASSEMBLY - FC AND CHAIN DEVICE

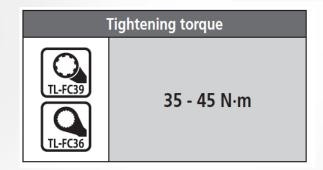


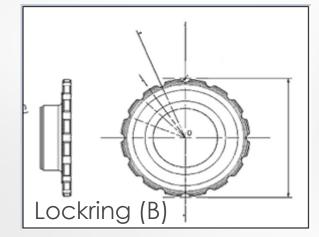
ASSEMBLY - FC

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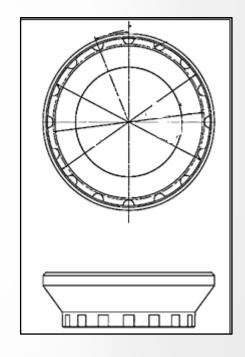






ASSEMBLY – TOOL TL-FC39

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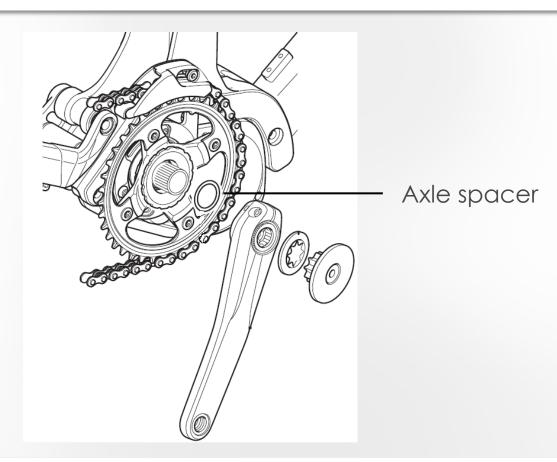
TL-FC36

Note: TL-FC39 has different size than TL-FC38

TL-FC39

ASSEMBLY – INSTALLING THE RIGHT CRANK

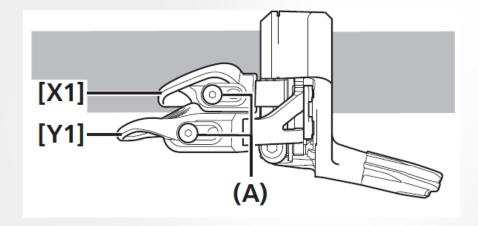




ASSEMBLY – ASSEMBLY OF THE SWITCH

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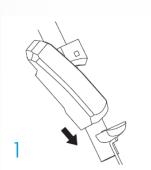
- Adjust the positions of Lever [X1] and lever [Y1]
- Loosen the lever fixing bolt (A) using a 2mm hexagon wrench.
 Adjust the lever's position so that it is easy to push.



ASSEMBLY – BT-E8010 BATTERY INSTALLATION

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- 1. Insert the battery
- 2. Slide the batteryto the right
- 3. Push in the battery, until you hear the click

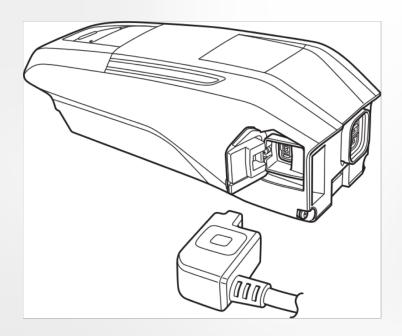




ASSEMBLY – CHARGING PORT ON THE BT-E8010



- In difference to BT-E6010 there is a charging port on the BT-E8010
- Battery can be charged on and off the bike



ASSEMBLY - BATTERY INDICATOR ON THE BT-E8010/BT-E8020

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Battery indicator shows SOC (state of charge) also, when battery is connected to the bike.



Battery level indication	Battery level
	100% - 81%
	80% - 61%
	60% - 41%
	40% - 21%
	20% - 1%
	0% (When battery is not on bicycle)
	0%, Power off / Shutdown (When battery is on bicycle)

No light

Light on

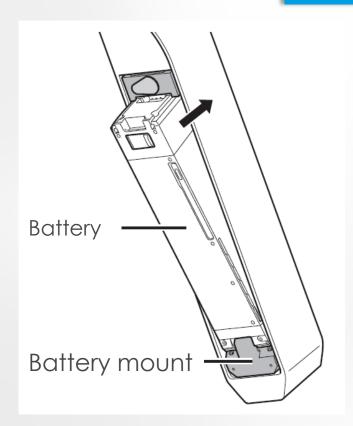
| blinking

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ASSEMBLY – BT-E8020 BATTERY INSTALLATION

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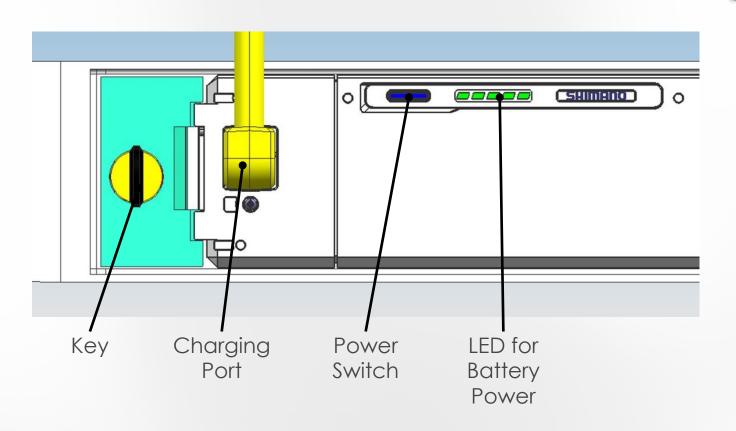
- Insert the battery into the battery mount until there is a click
- When inserted until a click is heard, the battery is locked automatically



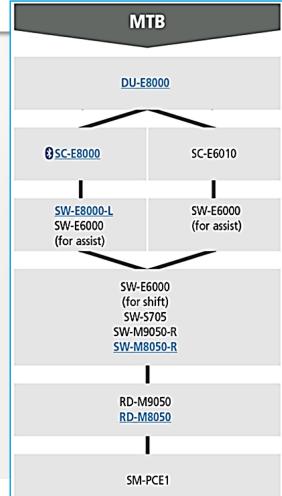
ASSEMBLY – CHARGING PORT ON THE BT-E8020



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ASSEMBLY - COMPATIBILITY DRIVE UNIT





ASSEMBLY - COMPATIBILITY BATTERY SHIMANO BM-E6000-A/B BT-E6001 DU-E6000 SM-BME60-A/B BM-E6010 DU-E6001 DU-E6010 BT-E6010 DU-E6050 SM-BME61 BM-E8010 BT-E8010 **DU-E8000** BT-E8020 BM-E8020 30-10-18 47 STEPS E8000 - assembly & settings training

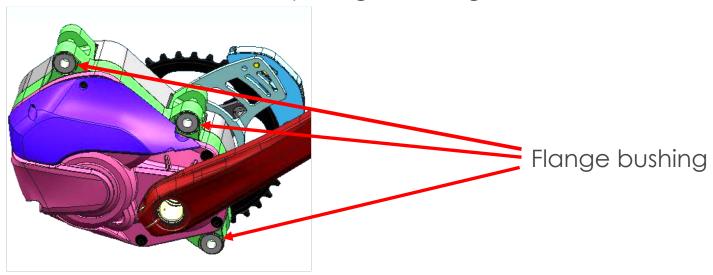
ASSEMBLY - COMPARISON SC-E6010/SC-E8000

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	SC-E6010	SC-E8000	Differences
	Removable	Non-removable	SC-E8000 is based on the design of SC-M9050
E-tube ports	3	4	Future expansion
LCD type	Mono- chromatic	8 color LCD	Clarify the assist mode by color display
Switches	2 (power,light)	1 (display change)	The same button structure as the XTR-Di2
Size comparison	67 x 99 x 18 mm	56.5 x 35 x 16.2 mm	
Wireless functionality	-	₿ Bluetooth [™]	Connectivity with wireless application

Assembly – drive unit

- Bolts must be at least 8 windings in the mounting portion of DU
- Frame requirement: 50 ± 0.25 mm
- Max.size of DU: 49.5 mm
- Difference is balanced by flange bushing





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QUESTIONS?



THANK YOU!

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