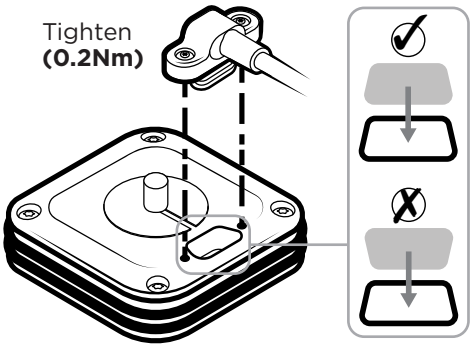
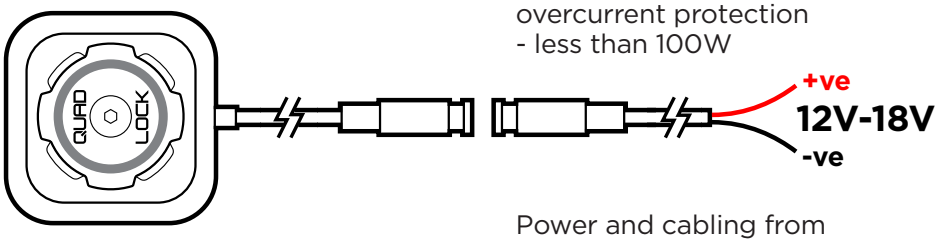
WIRELESS CHARGING MODULE

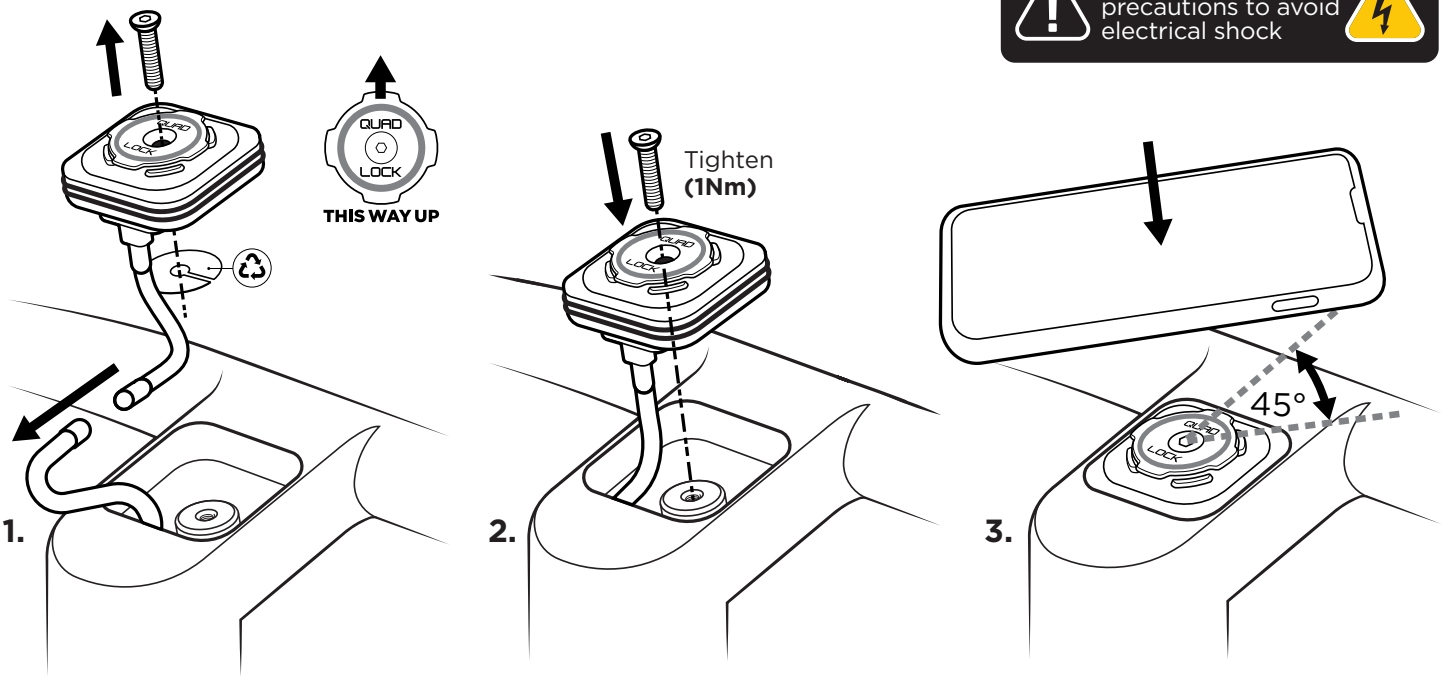
CABLE INSTALLATION





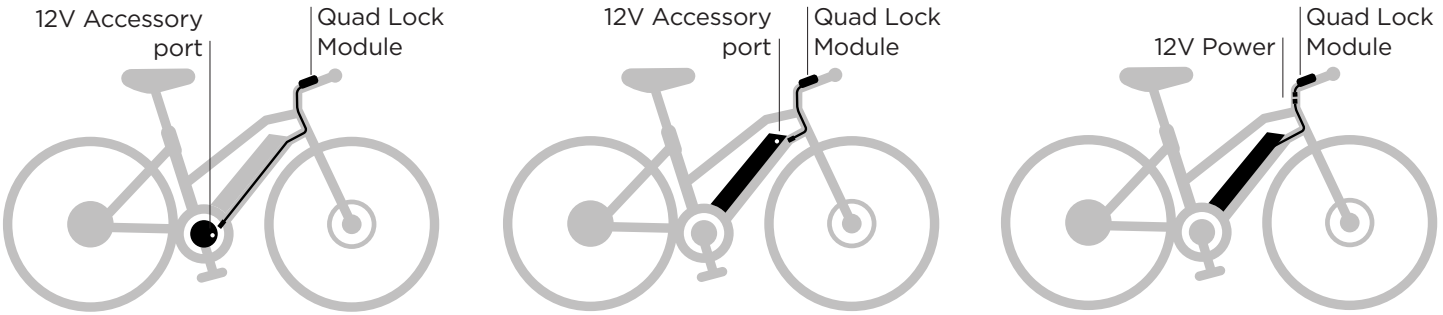
PUCK INSTALLATION

Follow neccessary precautions to avoid electrical shock



NOTE: This product must be professionally installed by an authorised assembly plant or service centre. Any installation by un-authorised parties will void the product warranty.

EXAMPLE WIRING CONFIGURATIONS



1. MID DRIVE MOTOR

2. HUB MOTOR

3. CONNECT AT STEM

Annex Products Pty Ltd, Como Centre, Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141
Ph: +61 3 9069 9698 | E: compliance@quadlock.com.au

2312-394

TROUBLESHOOTING

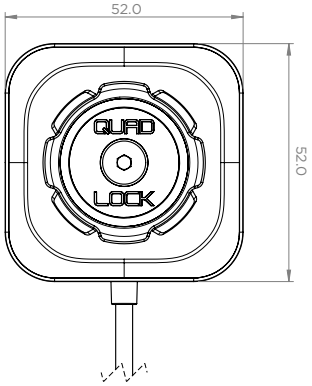
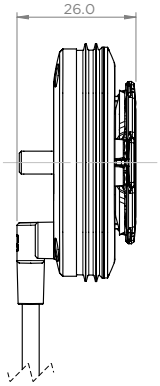
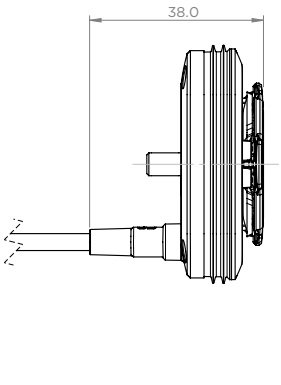
1. Is the Drive System OK?
2. Is the Power on?
3. Is the Battery charged?

Check drive system manual and resolve any issues

4. Check 12V power at Connector
5. Replace Cable
6. Replace Charging Module

Follow neccessary precautions to avoid electrical shock

TECHNICAL SPECIFICATIONS

SKU	QLO-WCM	QLO-WCM-LC
Model	QL-6585	QL-6416
Model Name	OEM WCM 2.0- 12V-18V, 1.8A	OEM WCM 2.0- 12V-18V, 1.0A
Input Voltage	12V-18V DC	12V-18V DC
Input Current	1.8A Max @12V	1A Max @12V
Input Connection	2-wire - GND	2-wire - GND
Output Power	5W / 7.5W / 10W / 15W	5W / 7.5W
Operating Temperature	-10°C to +40°C at RH ≤ 95%	
OperatingFrequency	105Khz~205Khz.	
Efficiency	Up to 70% at maximum load (15W output) @ +23°C ambient	
Standby Current	40mA	
Phone Charging	Apple : Up to 7.5W Fast Charging Samsung : Up to 10W Fast Charging Google : Up to 15W Fast Charging Huawei : Up to 15W Fast Charging	Apple : Up to 7.5W Fast Charging Samsung : Up to 7.5W Fast Charging Google : Up to 7.5W Fast Charging Huawei : Up to 7.5W Fast Charging
Electronics Protection	Reverse polarity protection Overvoltage/Undervoltage protection Overcurrent protection Transient spike protection Overtemperature protection – 2-stage Foreign Object Protection (FOD) – detects presence of metal objects in proximity above charger and limits power output from coil to prevent overheating	
Certification	FCC ID: 2AOU9-QLO2 R33116 RoHS	
Water resistance	IP67	
Dimensions	 Right-Angle Cable   Vertical Cable	
Product Weight (kg)	0.080 kg	

Annex Products Pty Ltd, Como Centre, Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141
Ph: +61 3 9069 9698 | E: compliance@quadlock.com.au

2312-394

DEVICE COMPATIBILITY

All devices must be using a dedicated Quad Lock Case (Original or MAG) to ensure optimal charging and mounting experience.
(As at April 2024).

APPLE

iPhone 15 Pro
iPhone 15 Pro Max
iPhone 15
iPhone 15 Plus
iPhone 14 Pro
iPhone 14 Pro Max
iPhone 14
iPhone 14 Plus
iPhone 13 Pro
iPhone 13 Pro Max
iPhone 13
iPhone 13 mini
iPhone SE (3rd Gen)
iPhone 12 Pro
iPhone 12 Pro Max
iPhone 12
iPhone 12 mini
iPhone 11 Pro
iPhone 11 Pro Max
iPhone 11
iPhone SE (2nd Gen)
iPhone XS
iPhone XS Max
iPhone XR
iPhone X
iPhone 8
iPhone 8 Plus

SAMSUNG

Galaxy S24
Galaxy S24+
Galaxy S24 Ultra
Galaxy S23
Galaxy S23+
Galaxy S23 Ultra
Galaxy S22
Galaxy S22+
Galaxy S22 Ultra
Galaxy S21 FE
Galaxy S21
Galaxy S21+
Galaxy S21 Ultra
Galaxy Note20
Galaxy Note20 Ultra
Galaxy S20 FE
Galaxy S20
Galaxy S20+
Galaxy S20 Ultra
Galaxy Note10
Galaxy Note10+
Galaxy Note9
Galaxy S10
Galaxy S10+
Galaxy S10e
Galaxy S9
Galaxy S9+
Galaxy S8
Galaxy S8+

GOOGLE

Pixel 8a
Pixel 8
Pixel 8 Pro
Pixel 7a
Pixel 7
Pixel 7 Pro
Pixel 6
Pixel 6 Pro
PIxel 5
Pixel 4
Pixel 4XL
Pixel 3
Pixel 3 XL

HUAWEI

Huawei P40 Pro
Huawei P30 Pro

WIRELESS CHARGING FUNCTIONALITY IS NOT COMPATIBLE WITH QUAD LOCK UNIVERSAL ADAPTORS

Annex Products Pty Ltd, Como Centre, Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141
Ph: +61 3 9069 9698 | E: compliance@quadlock.com.au

2312-394

CERTIFICATION

CE Annex products Pty Ltd, Australia, declares that the radio equipment type QL-6585 and QL-6416 is in compliance with RED Directive (2014/53/EU).
The CE certificate of conformity can be found at:
www.quadlock.com.au/compliance

H-Field	1.24dBuA/m at 10m
Frequency band	116kHz to 159.36kHz

UKCA Annex products Pty Ltd, Australia, declares that the radio equipment type QL-6585 and QL-6416 is in compliance with the following Directives: Radio Equipment Regulations 2017.
The certificate of conformity can be found at:
www.quadlock.com.au/compliance

FC This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

— Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device has been evaluated to meet general RF exposure requirement.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and a human body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

Annex Products Pty Ltd, Como Centre, Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141
Ph: +61 3 9069 9698 | E: compliance@quadlock.com.au

2312-394

QUAD LOCK
產品名稱：OEM WCM 2.0 - 12V-18V無線充
型號：QL-6585
電源供應器：15W以上
輸入：12V-18V DC, 1.8A 輸出： 5W (DC 5V/ 1A) / 7.5W (DC 7.5V/ 1A) / 10W (DC 9V/ 1.12A) / 15W (DC 9V/ 1.66A)

總輸出：15W Max 海拔：2000米 操作溫度：-10ºC to +40ºC
電源電壓允許偏差±10%
12V輸入可支援5W或 7.5W或10W或15W輸出。

設備名稱Equipment name：OEM WCM 2.0 - 12V-18V無線充 (型式) Type designation (Type)：QL-6585

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
塑膠外殼	○	○	○	○	○	○
電路板	○	○	○	○	○	○
感應線圈	○	○	○	○	○	○
外部連接線	○	○	○	○	○	○

備考1.“超出0.1 wt %”及“超出0.01 wt %”系指限用物質之百分比含量超出百分比含量基準值。
Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.“○”系指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.“－”系指該項限用物質為排除專案。
Note 3：The “－” indicates that the restricted substance corresponds to the exemption.

NCC 警語：
取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

Annex Products Pty Ltd, Como Centre, Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141
Ph: +61 3 9069 9698 | E: compliance@quadlock.com.au

2312-394

QUAD LOCK

產品名稱：OEM WCM 2.0 - 12V-18V無線充

型號： QL-6416

電源供應器：7.5W以上

輸入： 12V-18V DC, 1A　　輸出　5W (DC 5V/ 1A) / 7.5W (DC 7.5V/ 1A)

總輸出：7.5W Max　　海拔：2000米　操作溫度 -10ºC to +40ºC

電源電壓允許偏差±10%

12V輸入可支援5W或 7.5W

設備名稱Equipment name： OEM WCM 2.0 - 12V-18V無線充 （型式）Type designation (Type)： QL-6416

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
塑膠外殼	○	○	○	○	○	○
電路板	○	○	○	○	○	○
感應線圈	○	○	○	○	○	○
外部連接線	○	○	○	○	○	○

備考1.“超出0.1 wt %”及“超出0.01 wt %”系指限用物質之百分比含量超出百分比含量基準值。
Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.“○”系指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.“－”系指該項限用物質為排除專案。
Note 3：The “－” indicates that the restricted substance corresponds to the exemption.

NCC 警語：

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

Annex Products Pty Ltd, Como Centre, Level 3 Suite 6A, 299 Toorak Rd, South Yarra VIC 3141
Ph: +61 3 9069 9698 | E: compliance@quadlock.com.au

2312-394