

B&C lot module user manual



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Amendments

Revision	Implementation date	Release notes
v1.0	02.02.2022	First issue.
v1.1	12.07.2022	Changed wording on safe distance warning

Introduction

Product Bonnie & Clyde overview

The COMODULE IoT device is designed to be connected wirelessly into existing network infrastructure to gather and transmit data and to be controlled remotely. It thus creates opportunities for the physical world to be digitalized, which results in improved efficiency, accuracy and economic benefits.

This manual is intended for electric bike manufacturers for COMODULE IoT module integration.

Installation

Description of installation process of Bonnie & Clyde product

Required equipment

- Bonnie & Clyde product
- Mounting adapters for fixing the Bonnie part inside the bike frame
- Mounting adapters for fixing the Clyde part inside the bike motor cover

General description of the Comodule product and the vehicle into which integration is done. Possibly a quick overview of the general concept (Sharing or OEM etc) and the scope. The line thickness should be 3pt and the text size should be according to the necessary proportions, but preferably 12pt

Bonnie & Clyde part description

A- Main module - Bonnie

B- Antenna module - Clyde

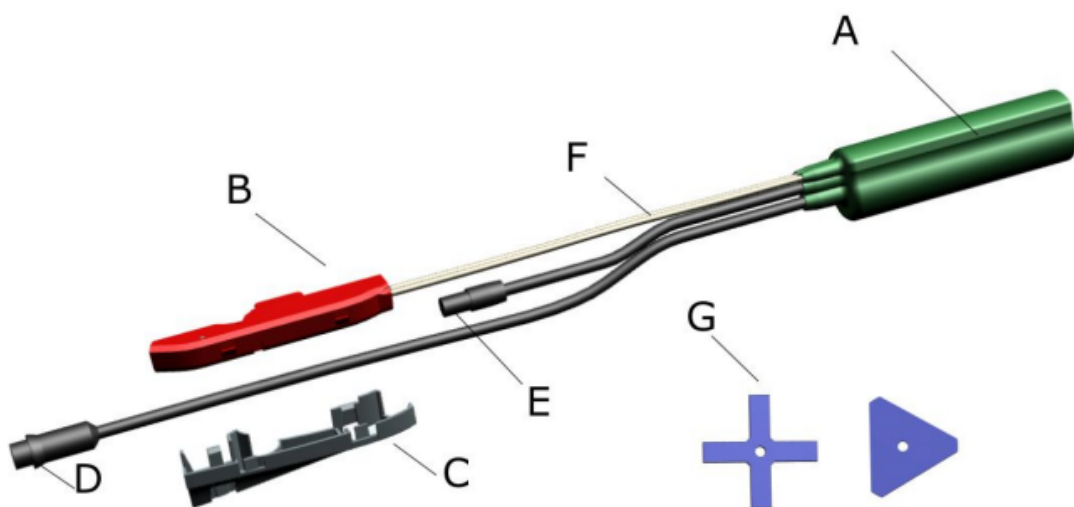
C- Mounting adapter (currently displayed Bosh Gen4 adapter)

D- COM cable (270mm exposed length) HR30-6J-6P (min. bend radius 39,2mm)

E- IO cable (120mm exposed length) JL-F39-Z508JG (min. bend radius 25mm)

F- RF cable (160mm exposed length) (min. bend radius 13mm)

G- Fixator tabs (OD 40mm)



Bonnie & Clyde installation

! 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 20cm between the radiator & your body. To satisfy RF exposure requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Description of one of the possible methods of Bonnie & Clyde product installation:

The antenna unit and the main unit are permanently fixed together. The antenna unit and wiring are routed to a suitable fixation point with all antennas having good reception.

Step 1

The fully assembled unit will be dropped into a tube from the top. It will be fixated with the help of the fixator tabs (suitable one to be selected).

*can also be pushed up from the bottom in case of space constraints

Step 2

The wires and antenna module will be pulled through from a hole in the tube and routed to a suitable fixation point (with antennas having good reception - we recommend testing the fixation).

Step 3

The cables are connected to the drivetrain and the antenna unit is attached to a predetermined fixation point by using a suitable mounting adapter.

Interference

INSTRUCTION TO THE USER:

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.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.