

## WARNINGS AND INSTRUCTIONS FOR INSTALLATION OF THE BREMBO TRACKTRIBE

PLEASE, READ AND CAREFULLY FOLLOW THE INSTRUCTIONS BELOW

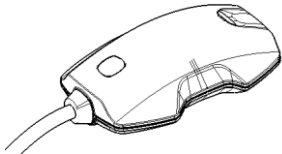
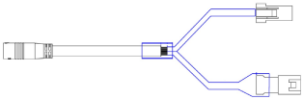

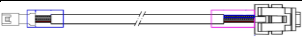
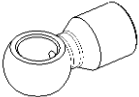


THIS DOCUMENT APPLIES EXCLUSIVELY TO THE PRODUCT IDENTIFIED BY PART NUMBER XC2CA71.

### CONTENTS OF THE PACKAGE

1x ECU, 1x Y-cable, 1x dual lock fixing, 1x stickers, 1x flyer limited warranty & warning EU, 1x pressure sensor kit.

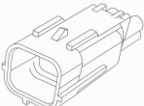

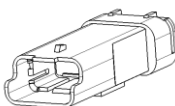

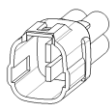

Pressure sensor kit is made up of:

1x pressure sensor, 1x pressure sensor cable, 1x banjo fitting, 1x banjo bolt, 4x washers.

|  |   |
|--|---|
| ECU<br>Product Number:<br>800-009-001<br>Commercial Number:<br>XC2CA01 |    |
| Y-cable  |  |
| Pressure sensor  |  |
| Pressure sensor cable  |  |
| Banjo fitting  |  |
| Banjo bolt   |  |
| Washers  |  |

**Figure 1 - Package content functional components**

Note: the cable to connect ECU to power supply is sold separately and depends on the motorcycle model on which the TRACKTRIBE will be installed. The choice is among one of the following codes: XC2CA12/22/32/42/52/62.

| Power supply    | OBD Euro 5  | OBD 2   | OBD Type 1  | OBD Type 2   | OBD Type 3  | Direct Battery  |
|-----------------|---|---|---|--|---|---|
| Code            | XC2CA12   | XC2CA22   | XC2CA32   | XC2CA42  | XC2CA52   | XC2CA62   |
| Connector image |  |  |  |  |  |  |

## GENERAL AND SAFETY INFORMATION

This BREMBO product has been designed to comply with all applicable safety standards. Products are not intended to be used differently from the specific use for which they have been designed and manufactured. Use for any other purpose, or any modification to, or tampering with, the Product can affect its performance and may render the Product unsafe. Any modification or improper use will void the Limited Warranty and may subject the individual so using the Product to liability for bodily injury or property damage to others.

As used in these instructions,



**DANGER** means procedures which, if not observed, have a high degree of probability that they will cause serious injury or even death.



**WARNING** means procedures which, if not observed, could possibly cause injury.



**CAUTION** means procedures which, if not observed, could result in damage to the vehicle.

## GENERAL WARNINGS AND PRECAUTIONS – PLEASE READ CAREFULLY



**DANGER** Proper installation and use of this Product contained in this KIT is essential for the safe operation of the motorcycle on which it is installed and to ensure the correct functioning of the hydraulic connection. This Product is intended to be installed only by a skilled, qualified professional who has been trained and/or is experienced in the installation and use of this Product, who has knowledge and experience with motorcycle repair and maintenance and is equipped with the appropriate tools of trade. As a general rule, closely follow the instructions contained in the original literature of the motorcycle manufacturer. Do not use an impact screwdriver, observe torques, always replace self-locking screws/nuts/safety elements.

Improper or incorrect installation, removal or reinstallation, whether caused by a failure to faithfully and completely follow these Instructions or otherwise, will void the Limited Warranty and could subject the installer to liability in the event of personal injury or property damage. BREMBO shall not be liable for any damage or injury that is caused by the improper installation of this Product including without limitation, damages or injuries caused by the operation of a motorcycle on which this Product has been improperly installed.



**DANGER** Before beginning replacement and installation of this Product, ensure that the Product and other parts used for replacement are intact, without any damage, dents or scratches.



**CAUTION** Note the position of all the components removed or partially removed to ensure proper reassembly of these components.



**CAUTION** In case certain components of the motorcycle (including, without limitation, covers, accessories and/or mirrors) obstruct the access to the master cylinder unit, and/or the disassembly of its interfaces, remove these components.

## INTENDED USE

The installer or operator should not install or service the Product unless he or she has read and understood the following assembly instructions, has been specifically trained and is authorized by his company. Operators must not make structural modifications to the components.

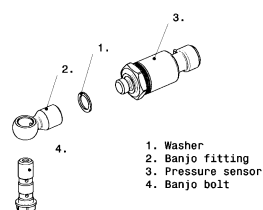
For installation guidance, the installer may refer to the video available at the following link:

<https://www.brembo.com/en/solutions/for-your-bike/tracktribe/instructions>.

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**PRE-ASSEMBLY OF THE PRESSURE SENSOR KIT**

Perform all the pre-assembly operations carefully, taking care not to damage any part of the KIT.



**Figure 2 - Pressure sensor kit detail**

- Insert one of the washers provided in the KIT onto the threaded end of the pressure sensor (also provided in the KIT).
- Hand-tighten the Banjo Fitting (provided in the KIT) onto the pressure sensor, ensuring the washer remains positioned between the two components.
- Set the pre-assembled KIT aside in a safe place.



**Figure 3 - Pressure sensor kit assembled**

**DISASSEMBLY OF THE HYDRAULIC SYSTEM**

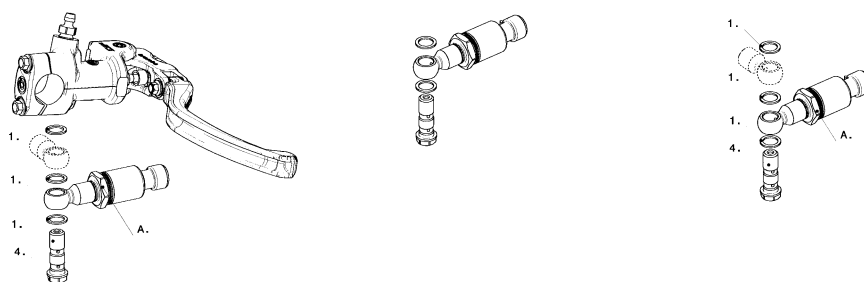
Perform all the disassembly operations carefully, taking care not to damage any part of the motorcycle, and ensuring that the fluid does not come into contact with parts of the vehicle that could be damaged.

- Pull the brake master cylinder lever and secure it in position using a zip tie (not included in the KIT) to close the hydraulic system.
- Unscrew the Banjo Bolt from the motorcycle's brake master cylinder.
- Remove the Banjo Fitting connected to the hydraulic feed line, along with all copper washers.
- Store or dispose the removed Banjo Bolt and washers, following the applicable laws and regulations.

**INSTALLATION OF THE PRESSURE SENSOR KIT**


Replace all the washers with the new washers provided in the KIT and check that all the parts provided in the KIT are compatible with the vehicle, otherwise the hydraulic connection may leak.

- Assemble the new hydraulic connection by inserting the following components onto the Banjo Bolt provided in the KIT, in the order listed below:
  - Washer (provided in the KIT)
  - Pre-assembled KIT
  - Washer (provided in the KIT)
  - Banjo Fitting connected to the motorcycle's hydraulic hose
  - Washer (provided in the KIT)



**Figure 4 - Pressure sensor mounting on brake master cylinder**



Correct tightening torque is necessary to prevent fluid leaking from the connection.

- Tighten the Banjo Bolt to the motorcycle using a torque of 17–20 Nm. A CH12 wrench is needed.
- Tighten the pre-assembled pressure sensor to a torque of 17–20 Nm. A 7/8" wrench is needed.
- Remove the zip tie from the brake master cylinder lever.
- Refill the brake fluid reservoir with the fluid prescribed by motorcycle manufacturer (taken from a sealed container) as indicated in the motorcycle manufacturer manual.
- Bleed the brake system using all available bleed points, starting from the brake master cylinder. Refer to the motorcycle user manual and follow bleeding instructions for that specific motorcycle model.



The formation of air bubbles inside the hydraulic circuit will affect braking performance. Perform carefully the bleed operation, following the vehicle maintenance manual instructions.

- Check the stiffness of the lever, with the vehicle stationary.
- Inspect all bleed points and the reassembled hydraulic connection for any brake fluid leaks.
- Connect the pressure sensor to its cable.
- Route the pressure sensor cable towards the motorcycle tail.
- The pressure sensor cable must be routed away from any motorcycle parts that may expose it to temperatures higher than 85 °C; route the cable in a way that remains adherent to the motorcycle tank and away from the engine zone. As a reference, follow the instructions in the video available at the following link: <https://www.brembo.com/en/solutions/for-your-bike/tracktribe/instructions>.
- Verify that the motorcycle handlebar can be fully rotated in both directions without any interference from the pressure sensor cable.
- Connect the other end of the pressure sensor cable to the Y-cable (see picture below).

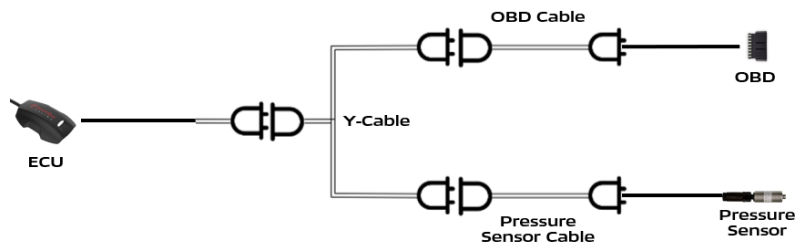


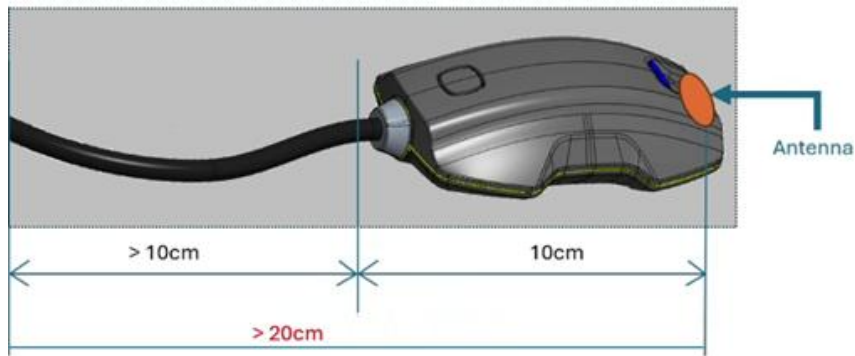
Figure 5 - Tracktribe harness schematics

**INSTALLATION OF THE ECU**

**WARNING** Take care not to damage any part of the KIT.

- It is recommended to install the product on the motorcycle tail section to ensure proper GPS exposure and adequate proximity to the OBD port for ECU power supply. Consider that ECU cable is 40cm long, and its connector has a diameter of 11,5mm.

**WARNING** • The ECU must be installed to guarantee a minimum distance of 20 cm between the body of the rider and the module antenna, as shown in the figure below.



- Ensure the motorcycle tail surface is clean and dry prior to attaching the Dual lock fixing; once the Dual lock tape is fixed to the motorcycle tail, attach the counterpart to the ECU.
- The ECU must be installed with the arrow marked on the product aligned with the direction of travel of the vehicle, to guarantee optimal system operation and accuracy (see pictures below).
- To guarantee optimal system accuracy, the maximum variation in yaw angle with respect to the direction of travel of the motorcycle must be smaller than 4°.

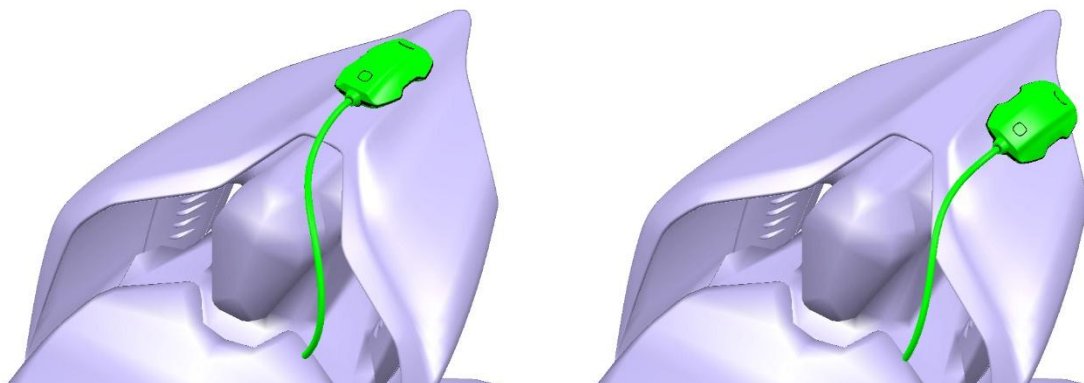


Figure 1 - Correct installation direction

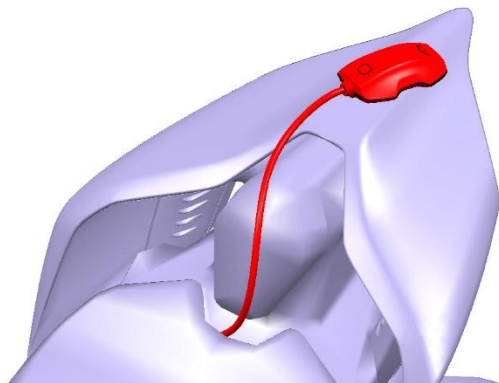


Figure 2 - wrong installation direction

- Connect the ECU cable to the Y-cable (see figure 5).
- Once installed, the ECU must be calibrated following the procedure described at the following link: <https://www.brembo.com/en/solutions/for-your-bike/tracktribe/instructions>.

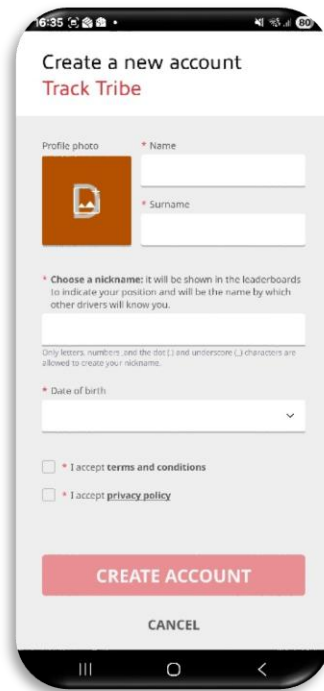
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#### PAIRING PROCEDURE

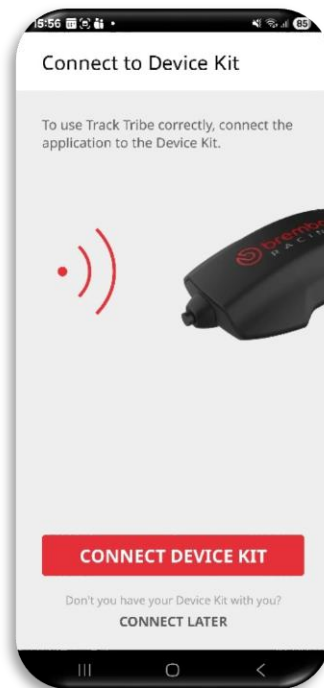
1. Open the Track Tribe App and log in using your Apple or Google account.



2. Complete your Track Tribe user profile information.



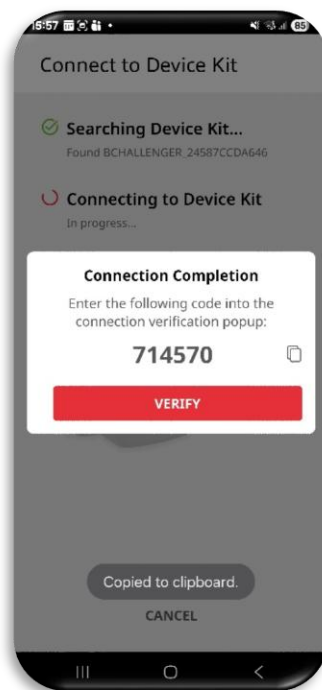
3. Make sure that Bluetooth connection is active and that your phone has internet connection. Also, verify that the ECU is powered and turned on.



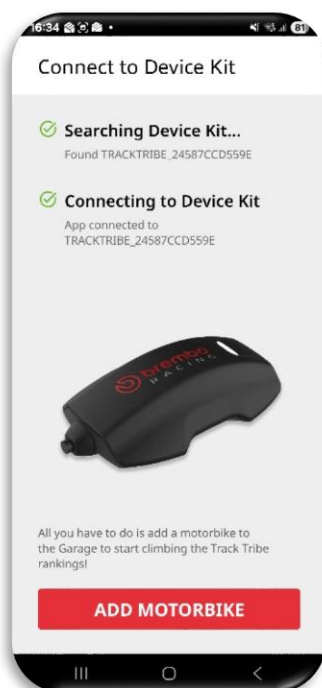
4. Connect the Track Tribe device by entering the identification number manually or by scanning the QR code, located on the bottom of the device.



5. Copy the unique security key received and enter it in the designated field.



6. The connection to the device is complete. From here, you will be able to add your motorcycle.



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#### SESSION ACQUISITION START CONDITIONS

Start session acquisition when the following condition is met:

- GPS speed ( $v_{\text{gps}}$ ) > 60 km/h for at least 5 seconds.

*Note: 60 km/h corresponds to the pit-lane speed limit. This threshold prevents false session acquisition during low-speed movements in the paddock or when the vehicle is stopped before entering the track (e.g. during safety checks).*

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#### SESSION TERMINATION CONDITIONS

Terminate the session when any of the following conditions occurs:

- GPS speed ( $v_{\text{gps}}$ ) < 5 km/h for at least 10 seconds.
  - GPS speed ( $v_{\text{gps}}$ ) = 0 km/h for at least 3 seconds.
  - The vehicle exits the predefined circuit geofence.
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**GENERAL INFORMATION**

A hard copy of this warranty is available upon request and can be sent to the following address: Via Stezzano 87, 24126 Bergamo (BG), Italy

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**FREQUENCY AND POWER****Frequency bands:**

WIFI: 2412 ÷ 2472 MHz

BLE/ANT: 2402 ÷ 2480 MHz

**GNSS:**

- GPS L1: 1575.42 ± 1.023 MHz
- Galileo E1: 1575.42 ± 2.048 MHz
- Glonass G1: 1602 MHz + (n \* 0.5625 MHz, n = -7, -6, -5, ..., 0, ..., 6)

**RF power:**

WIFI: 19.98 dBm EIRP

BLE (ESP32): 10.76 dBm EIRP

BLE/ANT: 4.38 dBm EIRP

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