



User Manual



Nom	Modification	Date	Ind
T.TRAN	Initial version	12/12/2019	A
T.TRAN	Online software Update	03/02/2020	B
T.TRAN	Diffusion for Online Version	01/04/2020	C
T.TRAN	Update for new hard/software	13/07/2020	D
T.TRAN	Streamable version	24/08/2020	E
T.TRAN	Update for software changes	06/10/2020	F
T.TRAN	Addition of Initialisation running lights	04/11/2020	G
T.TRAN	WI-FI password + accessories	11/02/2021	H
N.PIRIOU	Update for software changes	14/01/2022	I
N.PIRIOU	Update for Celette Connect	21/02/2023	J
N.PIRIOU	Update Manual	10/07/2023	K
N.PIRIOU	Add troubleshooting	27/07/2023	L

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Packing list

The Eagle is delivered in two different boxes:

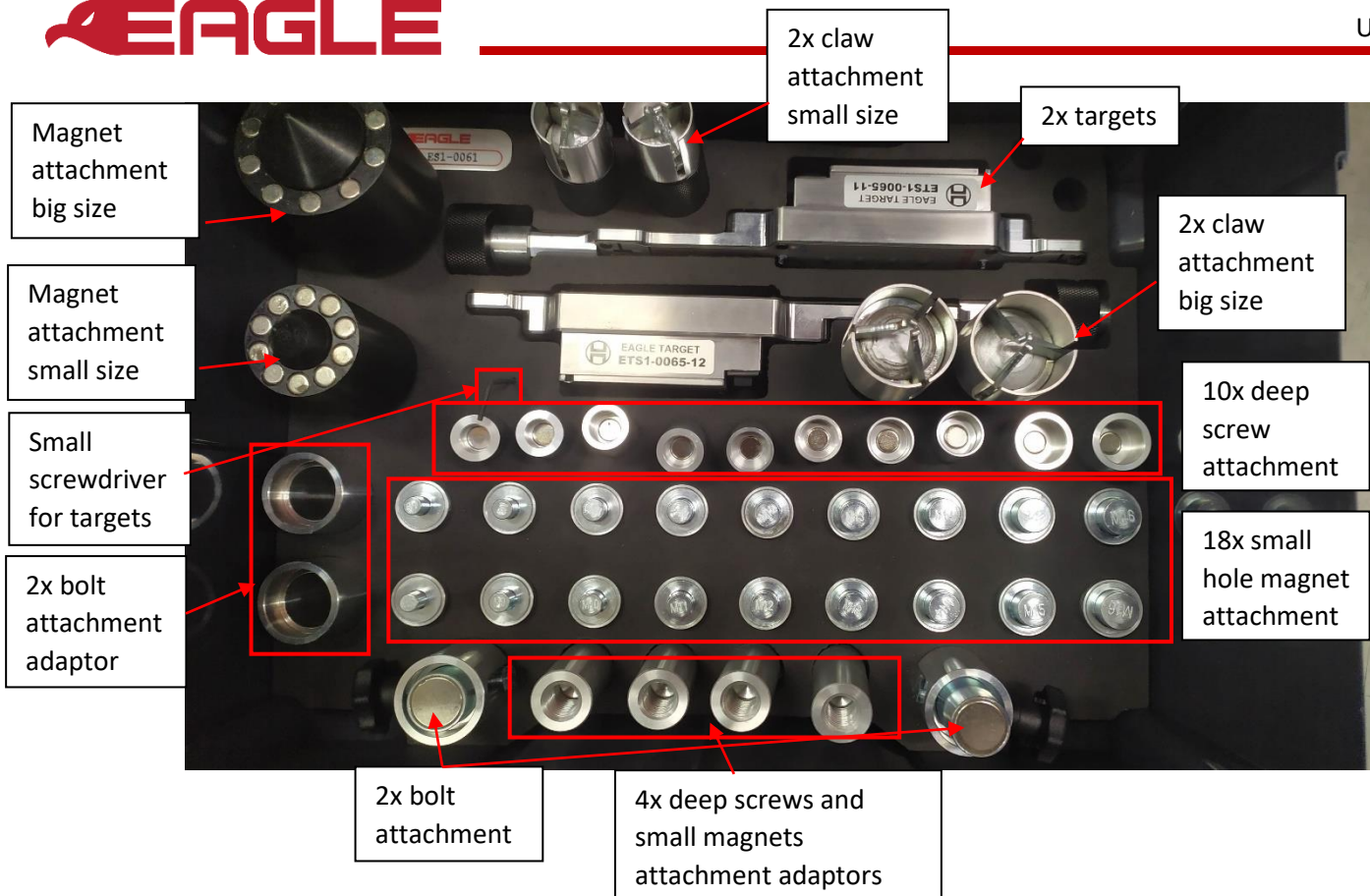
- Box 1, Eagle Head Set:
 - 1 Eagle Head
 - 1 hole attachment big size
 - 1 Battery charger + cable
 - 1 tool for attachment fixing
 - 1 ASUS WI-FI Dongle



- Box 2, Target Set:
 - Additional tray
 - 2 additional lengths 200 mm
 - 2 additional lengths 100 mm
 - 19 bolt sockets



- Target set:
 - 1x Magnet attachment big size
 - 1x Magnet attachment small size
 - 2x claw attachments small size
 - 2x claw attachments big size
 - 2x bolt attachments + adaptor
 - 1x tool for attachment fixing
 - 2x targets
 - 1x small screwdriver for targets
 - 10x deep screw attachment
 - 18x small hole magnet attachment



What is not delivered:

To complete this packing list, you need to buy rechargeable batteries please follow these recommendations:

- For the head, 2 x 18650 batteries:
 - o 3.7 V
 - o Capacity over 2600 mAh at least
 - o At least 250 mA
- For the targets, 4 x 14500 batteries:
 - o 3.7 V
 - o Capacity over 800 mAh at least
 - o At least 100 mA

Measuring Procedure

For the first measurement you need to download the updating software and update the Eagle head firmware to ensure proper use.

Head Installation

- 1) The first requirement is to connect your computer to internet
- 2) On your computer plug the WI-FI Dongle on one of your USB port, ideally use a direct USB port as hubs have a tendency to slow down a little bit the WI-FI connection.
- 3) Start your Eagle head and your targets, for both of them you need to use the toggle switch, the right switch on the head, and the switch on the back of the targets.

- 4) The targets will indicate you when the head is ready



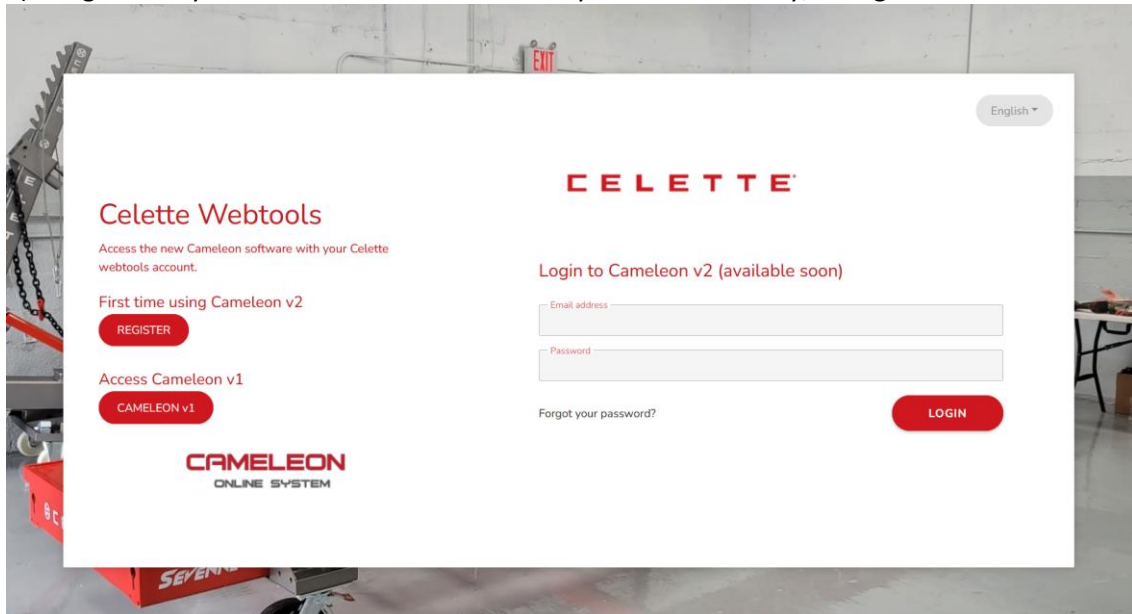
- 5) When the two diodes are stable you can connect the head to the second Wi-Fi, the main Wi-Fi must be connected to internet.

The password of the Eagle Head Wi-Fi **Celette-Eagle** is **Celette-Eagle**, exactly the same as the Wi-Fi SSID.

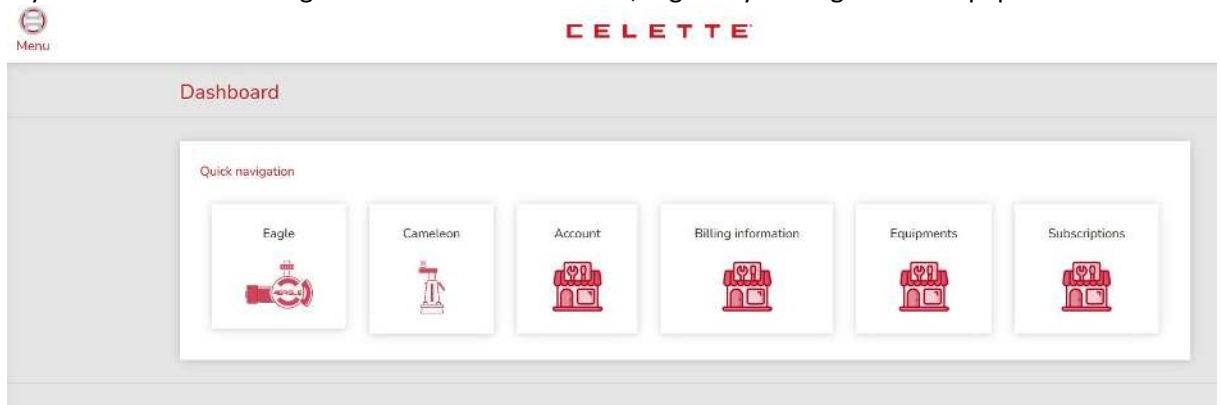
- 6) Create a shortcut to the online software with the following address:

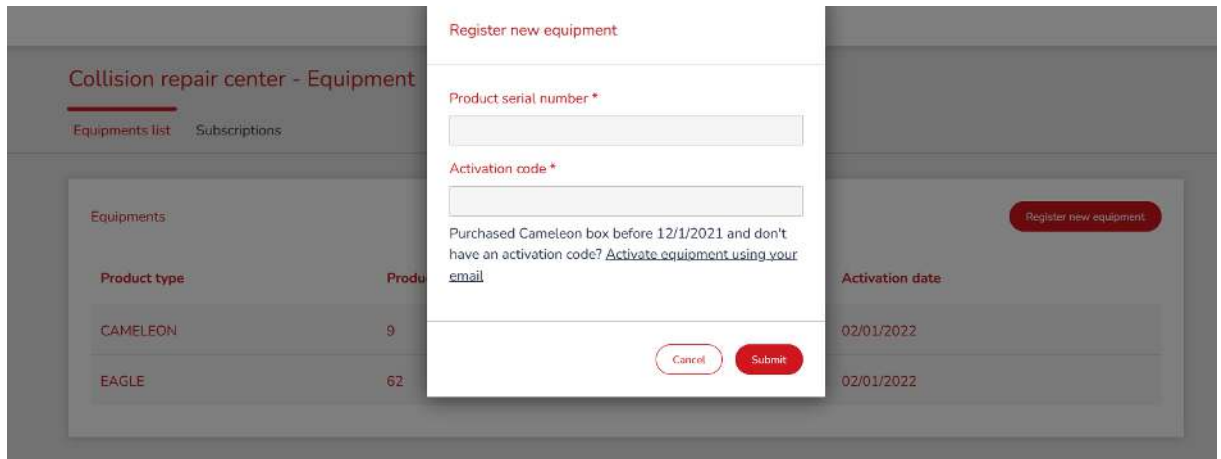
<http://app.celette.com/>

- 7) Log in with your Username and Password if you have it already, or register a new account



- 8) If you do not have the Eagle button in the Dashboard, register your Eagle in the equipment tab





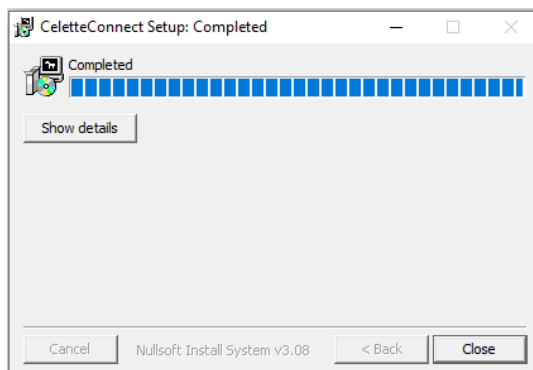
9) Download and install CeletteConnect

Warning

Introducing CeletteConnect, our new service that will automatically connect your Eagle tool to your computer via WiFi and keep it up-to-date with the latest software updates.

With CeletteConnect, you'll never have to worry about manually connecting or updating your Eagle again. Simply download and install, and let CeletteConnect handle the rest.

Cancel Download



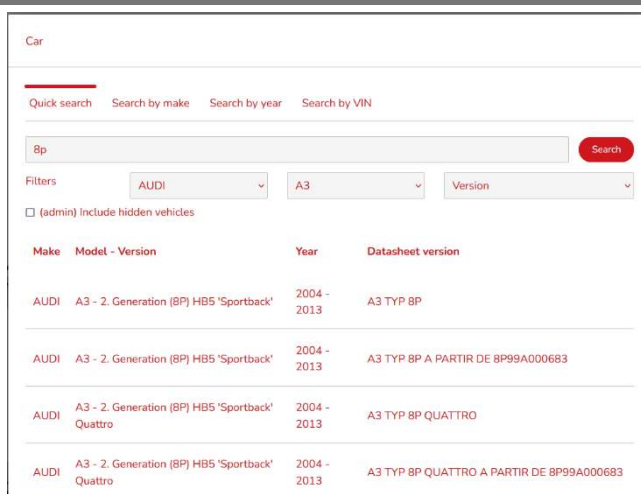
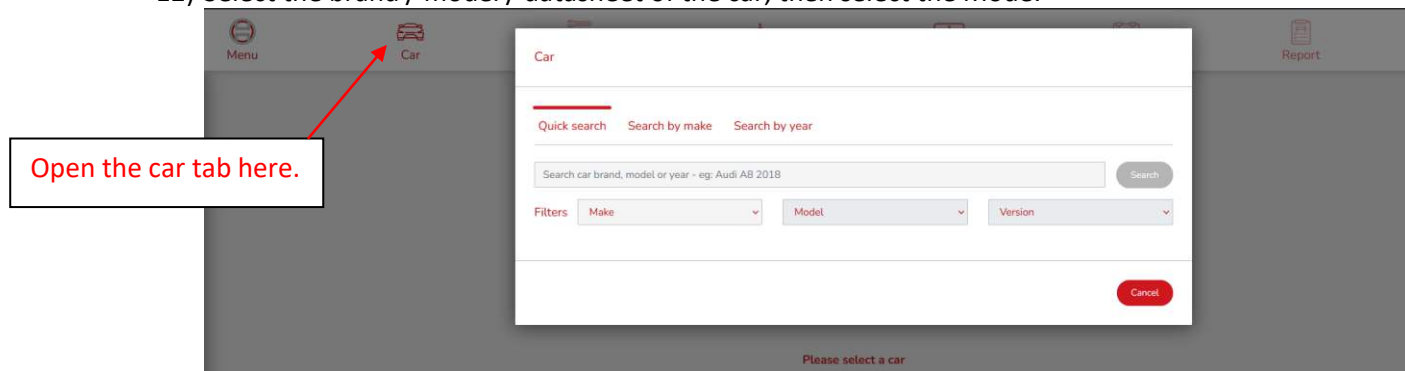
10) Plug in the USB Wi-Fi dongle



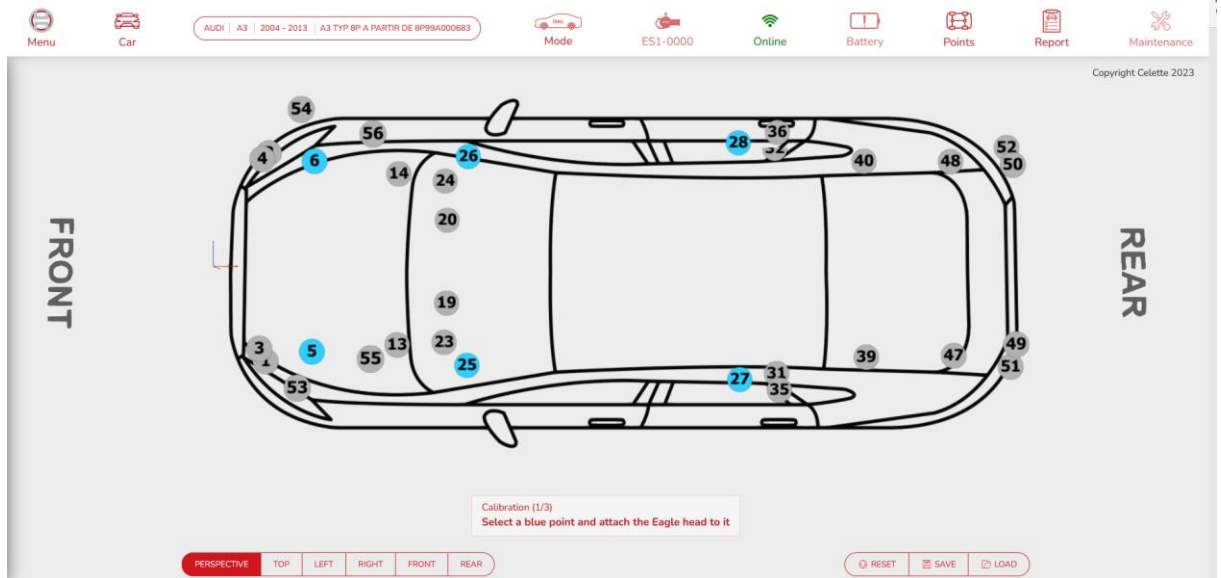
- 11) Start the Eagle Head and the Targets. The website will connect to the Head automatically. Your computer must be connected both at the head and at the internet at the same time. Once Eagle is connected, the Head logo in the toolbar will become green.



- 12) Select the brand / model / datasheet of the car, then select the Mode.

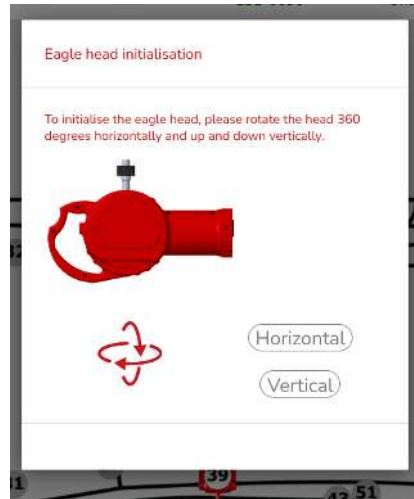


13) The points and a car drawing are now displayed on the screen.

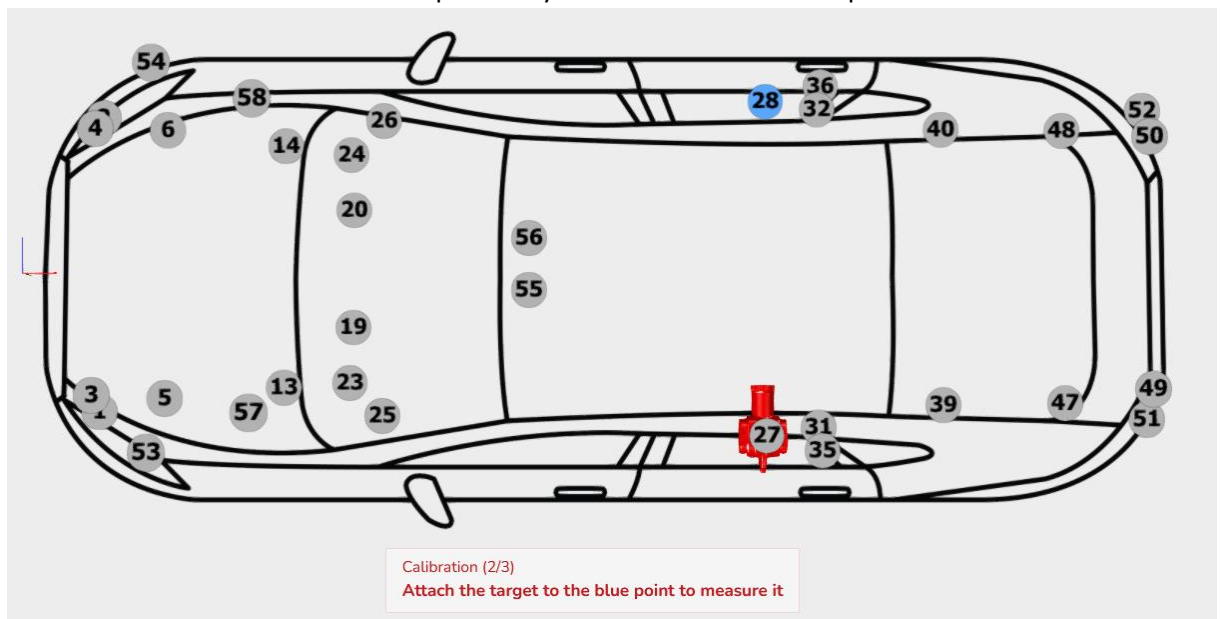


14) Then choose the starting measurement point, which is the point where the head is located under the car. You may only select one of the blue points. Left-click on a point to have more information on it. Left click on **Attach Eagle head to this point** to select it.

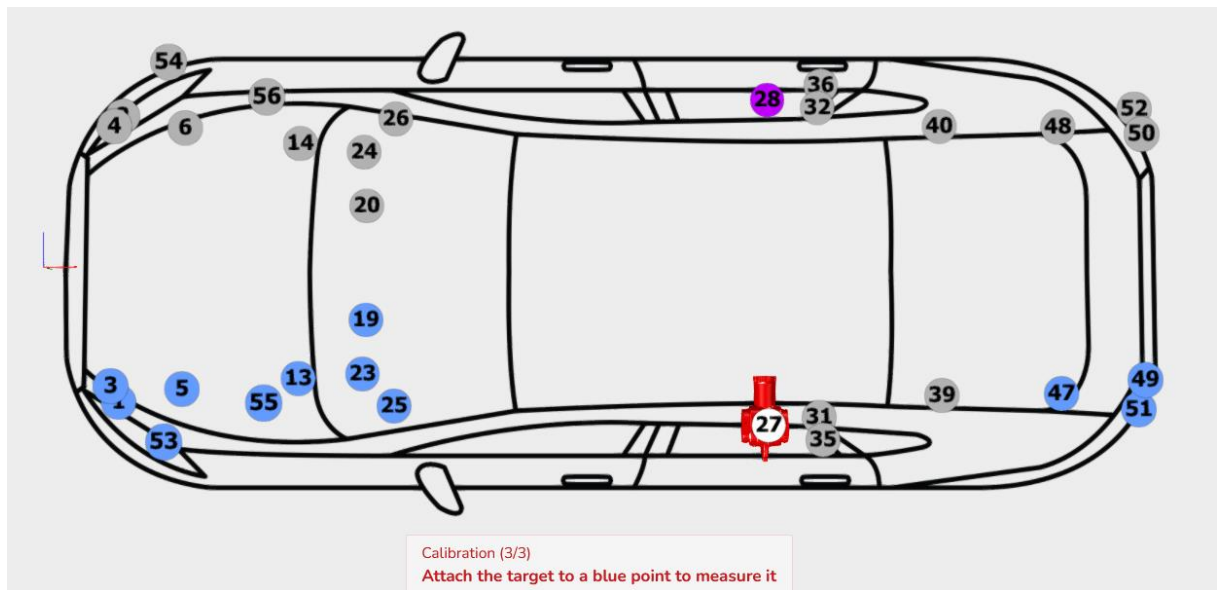
- 15) Then 2 buttons will appear Horizontal and Vertical, in order to validate those buttons, you need to rotate the head 360° horizontally and vertically for bottom to top position. Thus, you will initialize the head, in the same time a read running light will appear on the target and stop when the initialization is complete.



- 16) Then start the measurement by triggering the symmetrical target to the head, for example in the case of the head located on the point 39 you need to measure the point 40 first.



17) Once the point is measured, it will turn purple on the screen.

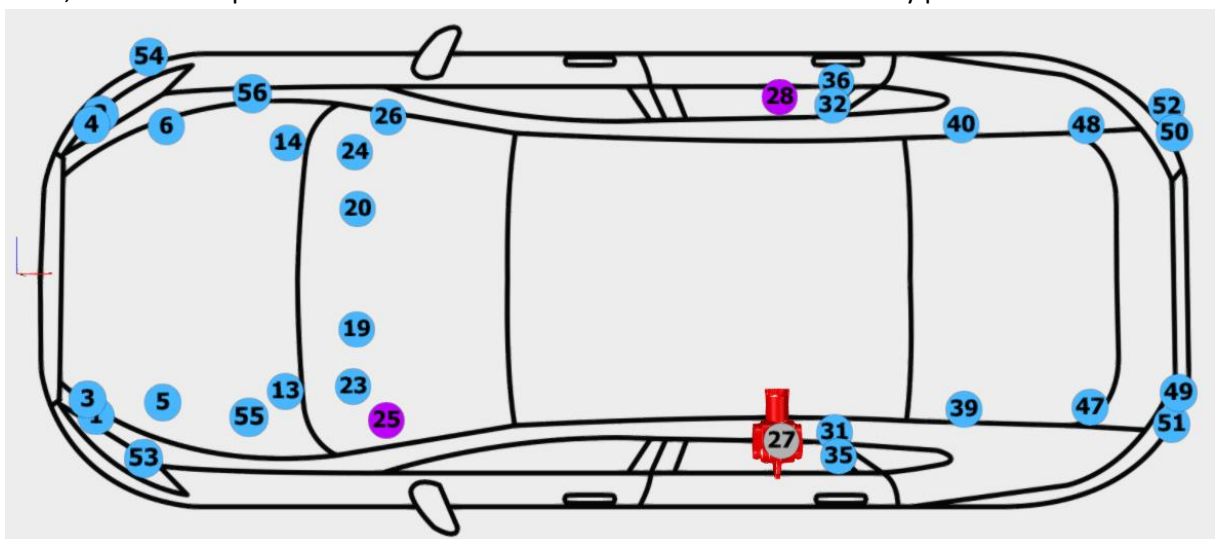


After this you need to measure a point located on the same side of the car as the head is. The software will present you a couple of points to choose from, in blue. In this example you could attach the target to either point 19, 23, 25, 13, 55, 5, 47, etc. You must measure one of those blue points.

You do not need to click anywhere. The Eagle will know which point you are measuring.

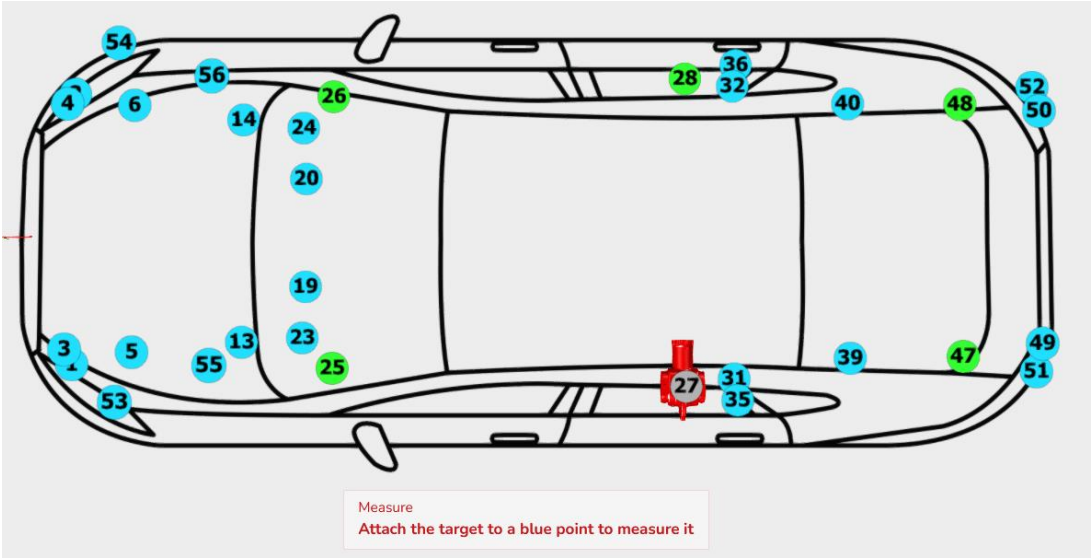
Tip: The first point must be symmetrical to the head this is compulsory, then when you choose where to set the head, please check also how is the condition of the symmetrical point, they must be clean from any damage both of them.

18) Then, all the other points on the screen turn blue. You can now measure any point.



However, it is recommended to measure the largest possible area around the car during the first five points, avoiding the damaged areas. The software does a calibration after the first 5 points so Continue your measurements until you measured all the points you need. The location of each point is automatically detected you do not have to enter anything.

19) You need to measure at least 5 different points to know the results of your measurements. After you measure 5 points the calculations will be automatically done. The points will change color according to the difference with expected.

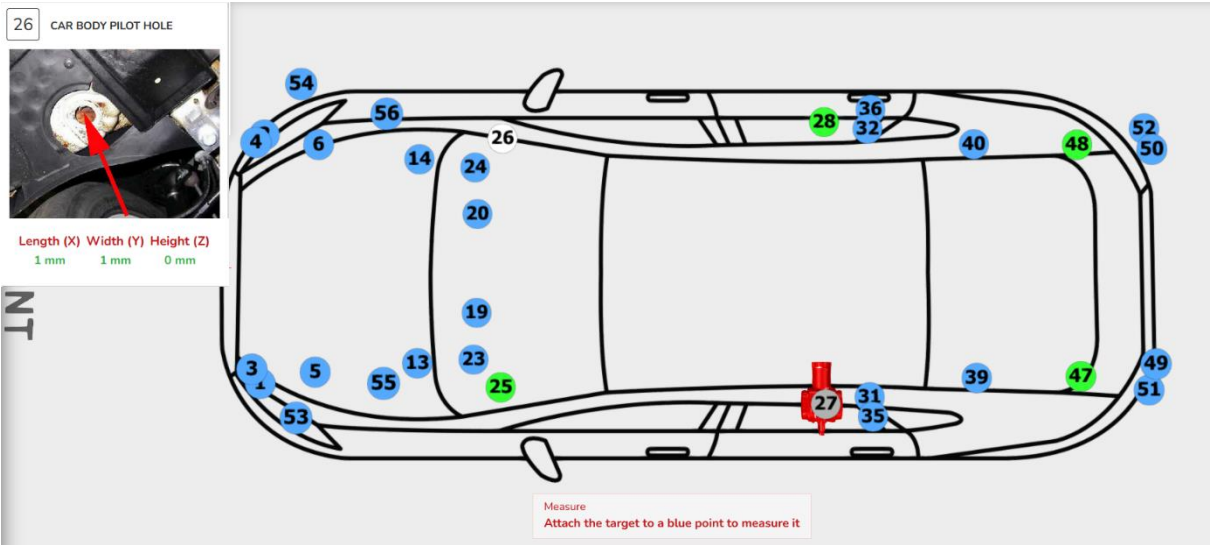


20) Hit the Points button to know the values.



Point	Description	Socket	Length (X)	Width (Y)	Height (Z)
22	SHOCK ABSORBER AT IACHMENT	F19	-	-	-
25	FRONT SUBFRAME = FRONT ATTACHMENT	F21	0	1	1
26	FRONT SUBFRAME = FRONT ATTACHMENT	F21	1	1	0

Or just click on any point on the main screen:



21) After you completed the measurement, you can then print the report, to get a report with all information you need to fill the field inside the report tabs.



Report



Here you can find the template of the report that you will obtain after measurement.

Bodysshop details

Celette	
-	
20130 chonburi	
Thailand	
nicolas@azimuthasia.co.th	0646304090

Customer details

N/A

Insurance details

N/A

Job details

Technician name	John Doe	Job number	1
Start date		End date	

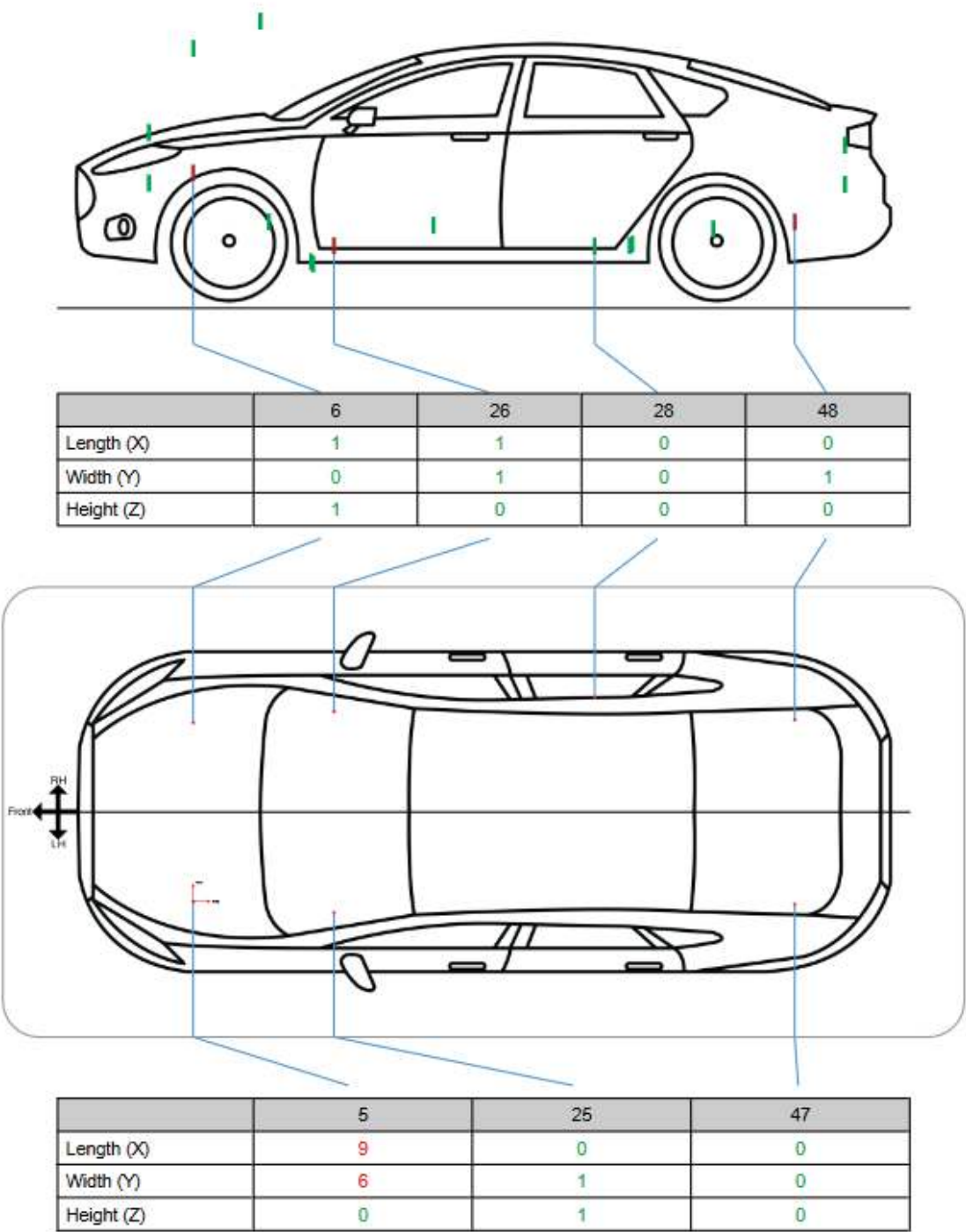
Vehicle details

AUDI	
A3	
A3 TYP 8P QUATTRO A PARTIR DE 8P99A000683	
2004	0123456789123456
AA-123-AA	123000

Notes

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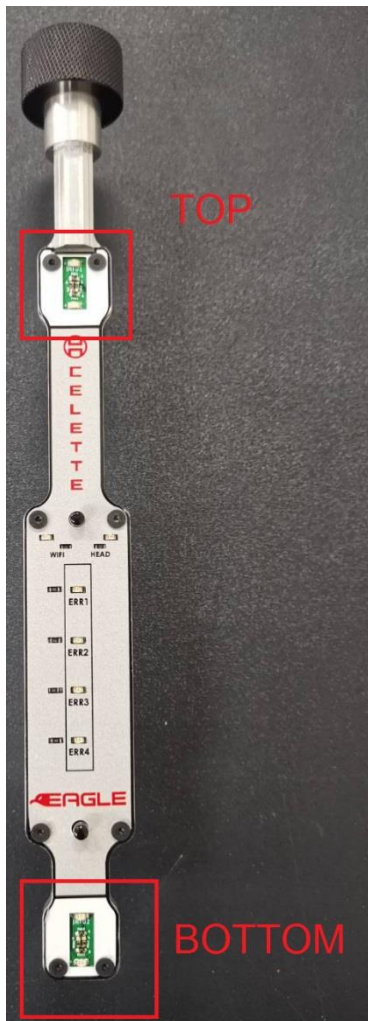
The colors of the point are reflecting the degree of confidence to the fact that the point is well positioned or not.



This report was created in accordance with original OEM 3D CAD data



Target Measurement



- 1) To obtain the position of the target you need to set it on the dedicated points under the car, (see the point after).
- 2) When the target is firmly set you need to point the laser on the location of the top group of detector cell.
- 3) The picture on the left indicate the top and bottom photodiodes regarding the black nut, it compulsory to do it in this order top then bottom, if you do not proceed like that you will have and Err3.
- 4) The detection will autotrigger when the laser reaches the detectors, it will trigger green photodiodes blinking. If the detection is validated then one of the green lights will remain. The detection is accompanied by a sound of detection.
- 5) Then repeat the operation on the bottom group of photodiodes, it will trigger also the sound of detection. If you correctly detected the 2 group of photodiodes you will trigger a sound of measurement and the green diodes will blink.

Tips: In order to get the best from Eagle measurement you need to train a little bit. The key point is to try to stay as stable as possible when you manage to trigger the detection of the laser. That is to say that when the green light starts to blink you should stop to move until the measurement sound triggers.

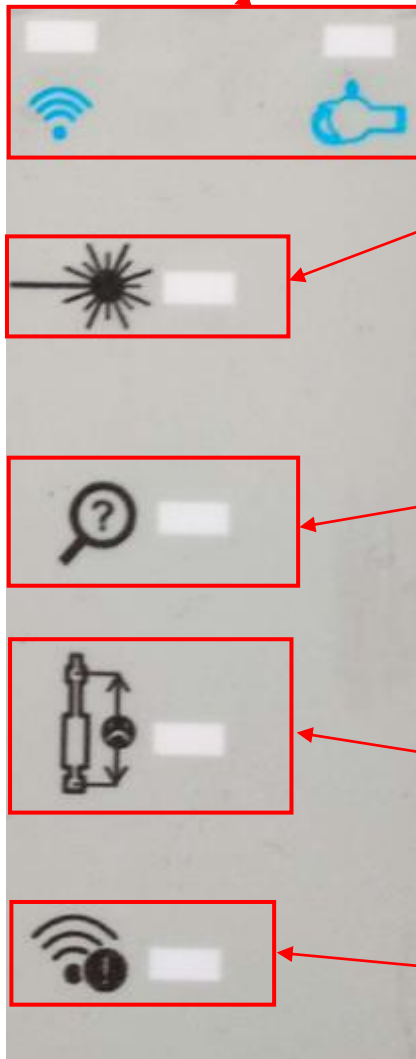
Tip: If you fail to proceed to the proper measurement you have a variety of LED that will help you to find out why the measurement could not be completed and how to solve this:



- Note that in general after one fail in the measurement it is compulsory to remeasure the two groups of photodiodes even if you fail only at the second one.
- Please find below the different possible errors

- 6) After five points measured the measured values will be displayed in the report tab.

Target Errors



Target connection to the Eagle head. Both theses diodes will blink after the target is turned on, then should be blue at all time.

The right-side diode blinking repeatedly when you try to measure the head means the head is not functioning correctly and should be reset or restarted.

The distance meter (laser) could not get the distance.

You should measure again the point (top and bottom).

If this happens repeatedly, the battery level of the head and/or the target may be too low.

You are not measuring the point you are supposed to measure (indicated in blue on the screen).
If you are confident that you are measuring the correct point, reset the Eagle head and start from the beginning.

The distance calculated between the two detecting elements is different from the theory.

You should measure again the point (top and bottom).

If this happens repeatedly, make sure that you aim steadily at the target, the target is facing towards the head, and the head is correctly fixed to the car (not moving).

The communication between the head, the target and the computer has an issue.

Wait 5 seconds until the red light turns off and keep measuring the target normally.

If this error is repeating consider to check you Wifi environment and try to reduce the number of additional Wifi networks.

How to plug the attachment inside a hole

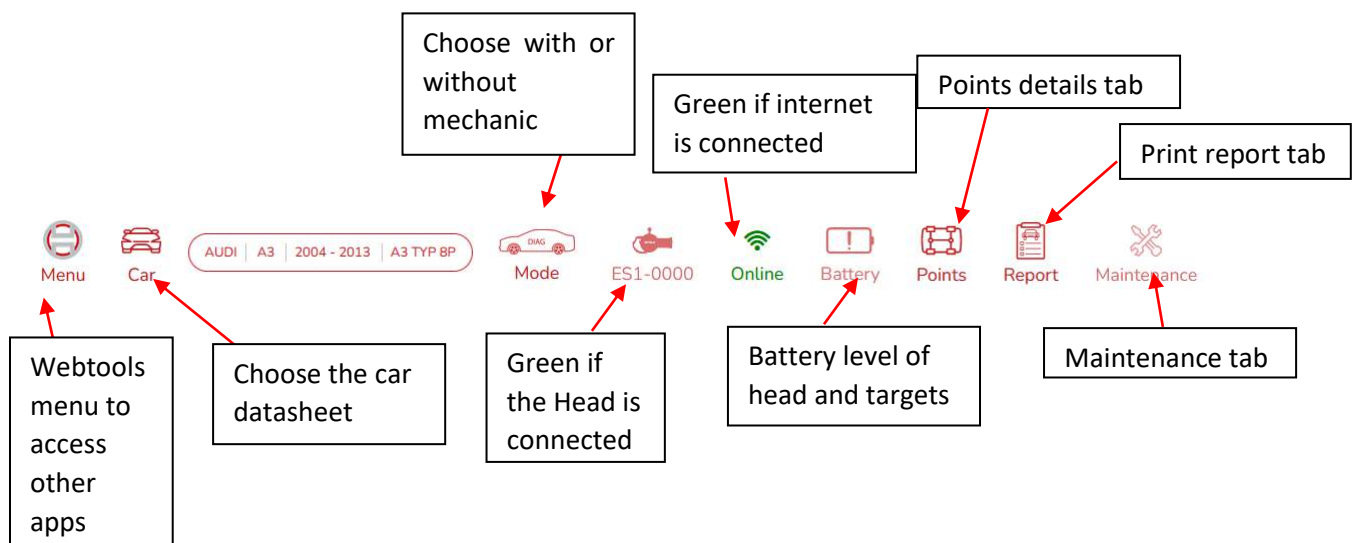
- Take a hole adaptor (choose between small and big size according to your hole)
- To make the measurement easier unscrew completely the black knurled part, and then screw it again around 1/3 of the length.
- Then tighten the bottom screw with the tool, to spread the clamps. Then screw the knurled adaptor, until the cup is fully compressed.
- Then screw the knurl black nut of the target on the adaptor, be really careful to well set the top surface of the axis of the target to the bottom surface of the adaptor. Be extremely careful to the orientation of the pins.

How to measure a head screw

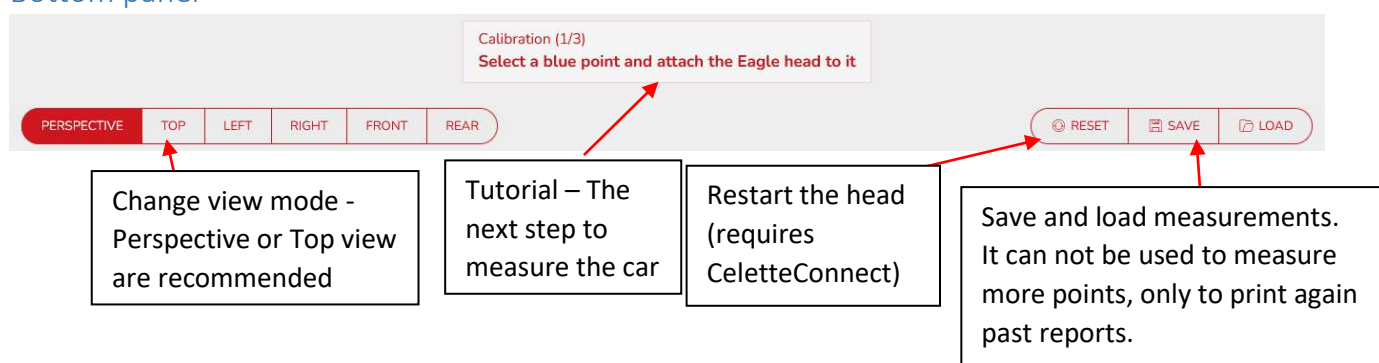
- Choose the required attachment (size is written on the attachment, follow the software information)
- Set the adapting socket on the head screw, be sure to attain the reference surface as shown in the software.
- Take one of the bolt adaptors, and set it below the socket, bring the magnet up until it is set on the head screw, then tight the control knob.

Software Presentation

Top panel



Bottom panel



Additional accessories use

Adaptor bolt attachment



The pictures are describing the bolt attachment adaptors that are supposed to be used for stud measurement



You can then use this as a standard bolt attachment with a plastic socket

Special adaptors

Those special adaptors are designed to cap screws when the space around is very narrow for the following brands; Jaguar Landrover, BMW, Mercedes, Porsche. In case of a doubt when measuring a car of this brand please contact your Celette support contact.



Small holes adaptors

The small hole adaptors are screwed the same way as special adaptors. They are magnetic and used to fix the targets in small holes, where the universal magnets cones could not fit.



Troubleshooting connection issues

The steps to connect Eagle

1. Make sure you put fully charged rechargeable batteries inside the Eagle
2. Turn on Eagle
3. Plug in the Dongle
4. (At this step, if you look at your Wi-Fi networks, you should have your normal Wi-Fi connected to internet, and the new Wi-Fi network not connected to anything)
5. Open the Eagle app: <https://app.celette.com/#/eagle>
6. Download and install/update CeletteConnect if not done already, as the website requests it
7. Select a car on the website
8. Wait a bit, up to 2 minutes
9. By now, Eagle should be connected correctly. You know this because both Eagle and Online logos are green on the website.

Troubleshooting if the Eagle logo is still not green after 2 minutes

First, make sure that your internet is connected and work. You can do a google search in another tab to try it. Also, the "Online" logo on the app should be green.

Look at the Windows network tab.



One Wi-Fi network should be connected to your internet, the other one should be connected to Celette-Eagle

If Celette-Eagle Wi-Fi is connected but the Eagle does not appear green, several tricks can work:

1. Make sure you have only 1 tab open with the Eagle website. If it is already green on a window, it will not green up on another one.
2. Change the car/mode as this can trigger a new connection
3. Refresh the page
4. Disconnect Celette-Eagle from your networks, let it reconnect automatically
5. Remove the dongle then plug it in again. Let it reconnect automatically.
6. Restart Eagle then wait 1 minute

If Celette-Eagle Wi-Fi is not connected: restart your Eagle then wait 2 minutes. If it still does not connect:

1. Make sure Eagle and your computer are not more than 5 meters away from each other.
2. Look into the Wi-Fi tab on your computer. You should see a network named "Celette-Eagle". If you do not see the network, there may be a problem with your device.
3. Change Eagle batteries. Rechargeable batteries sometimes appear to be full on the charger, but do not output enough power to let Eagle run properly, especially as they get older.
4. Your network may be saturated by another Wi-Fi. If you are using a phone as a Wi-Fi router, make sure it is not too close to the Eagle or the computer as it can create Wi-Fi interferences.