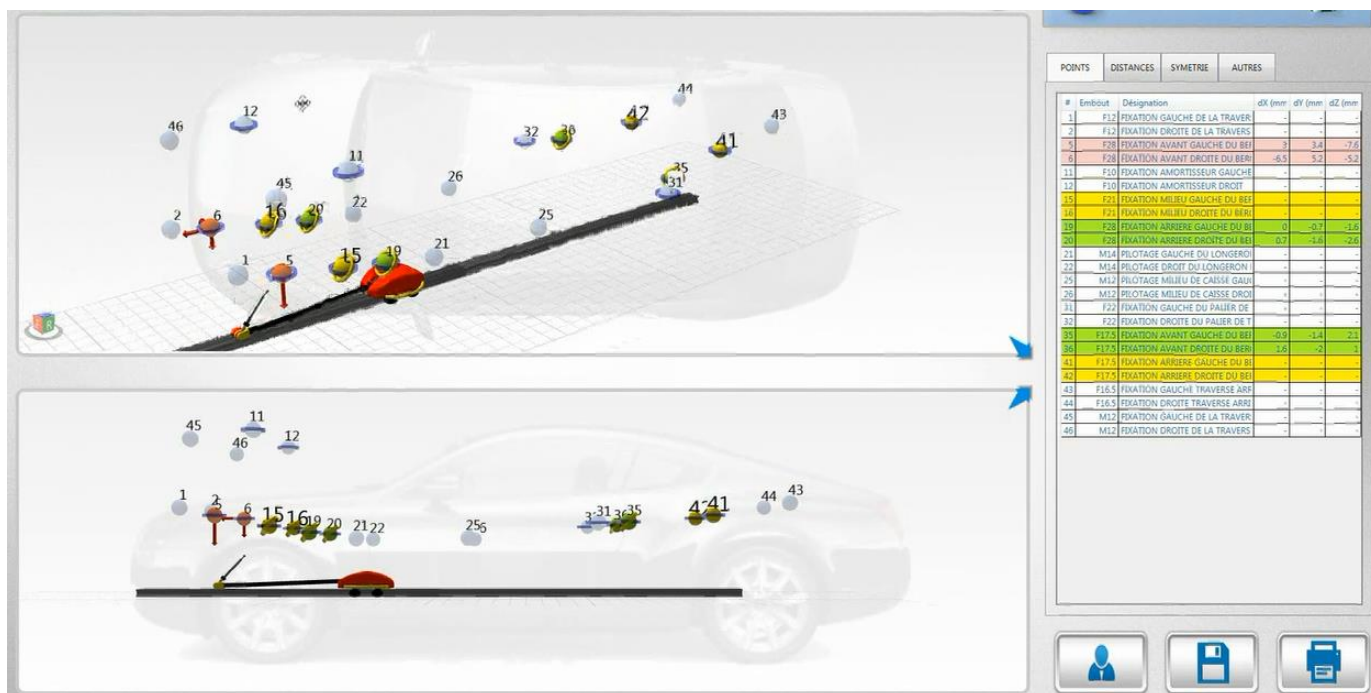


NAJA 3D SOFTWARE





Summary

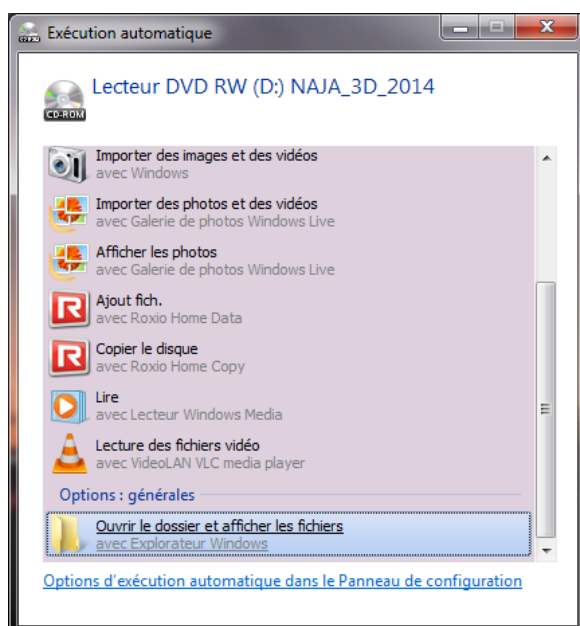
1- Installation of the software	3
2- Naja data calibration	6
3- Bluetooth connection windows 7	7
4- Bluetooth connection windows 8	9
5- Naja software bluetooth parameter	10
6- Main menu	11
7- Software setting	12
7.2- Customer tab	12
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9- Reopening report	23
10- Measure by symmetry	24
11- Measure distance	26
12- Additional information	28
13- Repair Mode	35
14- Customize data sheet mode	39

1- Installation of the software

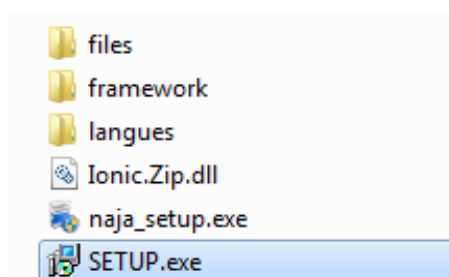
1. Insert CD-rom or USB key



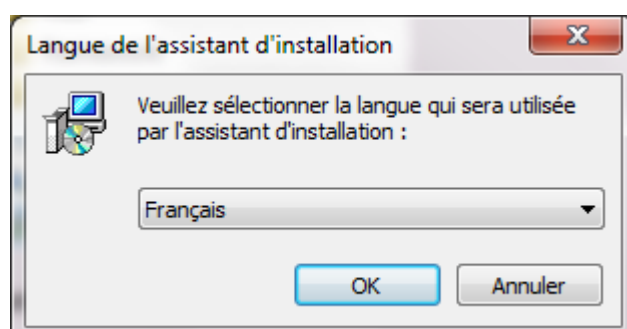
2. Open and show the files



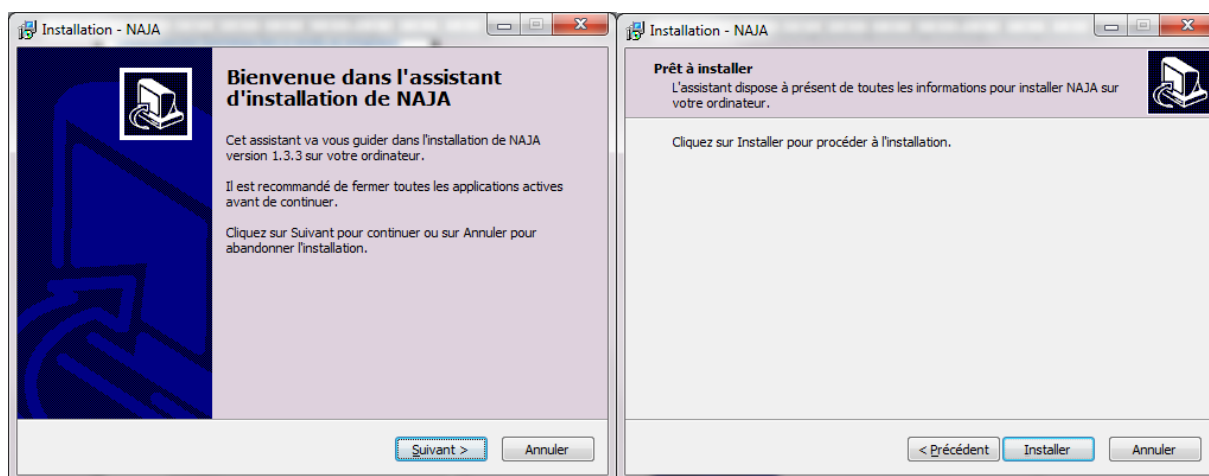
3. Double click on SETUP.EXE



4. Select the language and click on OK



5. Click on Next and Install



6. Click on a Flag

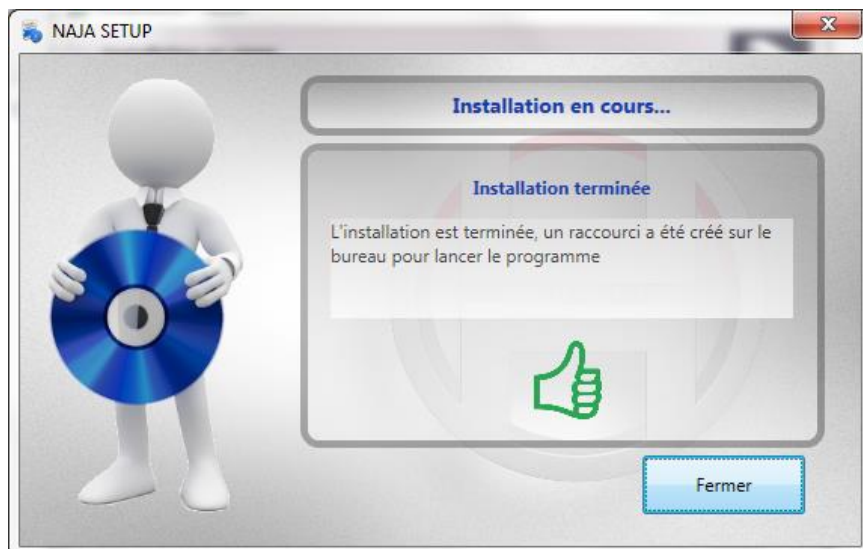


7. Click on Next

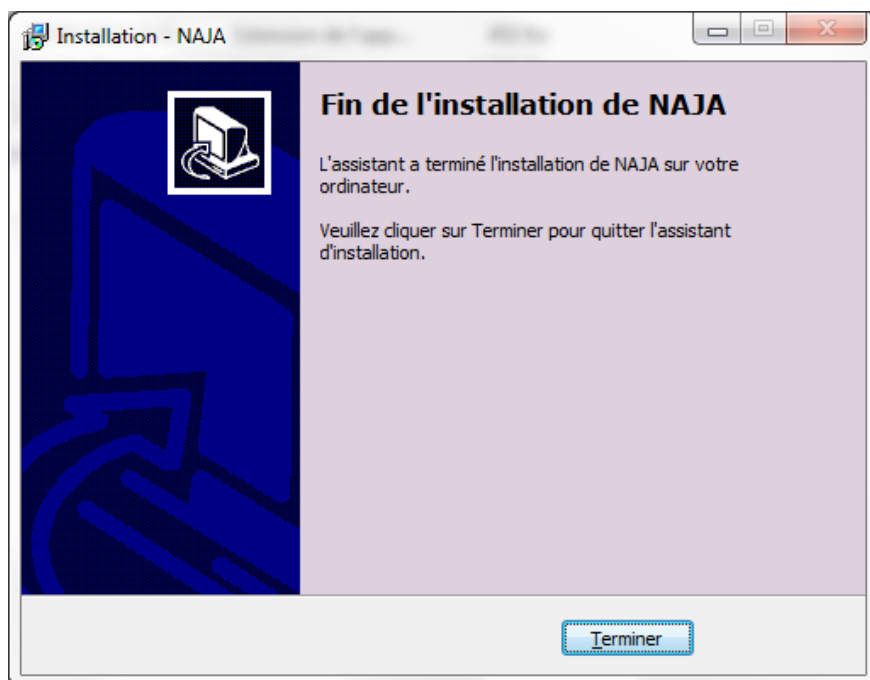


8. Wait for the installation to finish

9. Click on Close



10. Click on Finish



11. One shortcut was created on your desktop, double click on it to start NAJA software

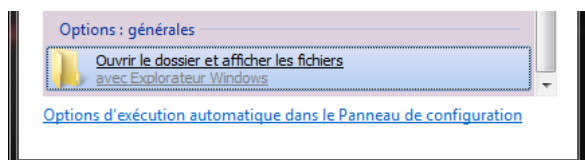


NAJA2014

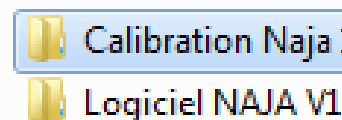
2- NAJA data calibration

1. Insert CD-rom or USB key

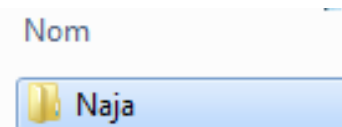
2. Open and show the files



1. Double click on the folder:
Calibration Naja

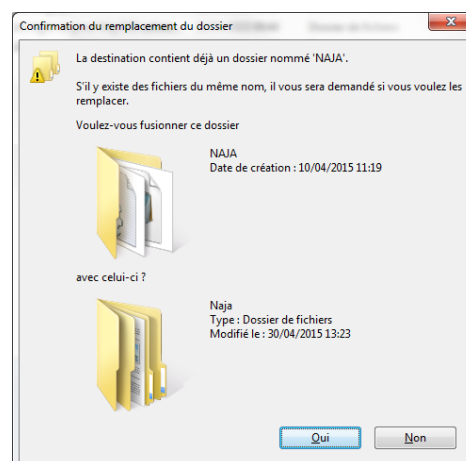


2. Copy the folder NAJA

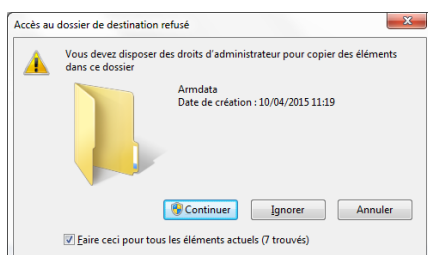


3. Paste it under C:\Program Files\CELETTE

4. One window appears and asks you if you want to replace existing folder, click on YES.

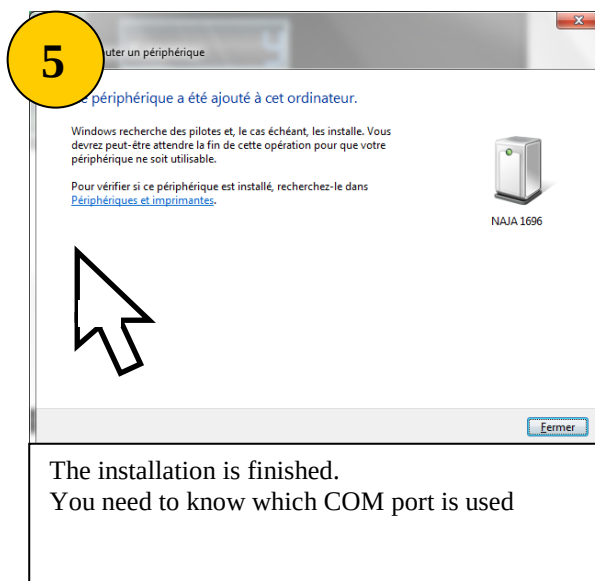
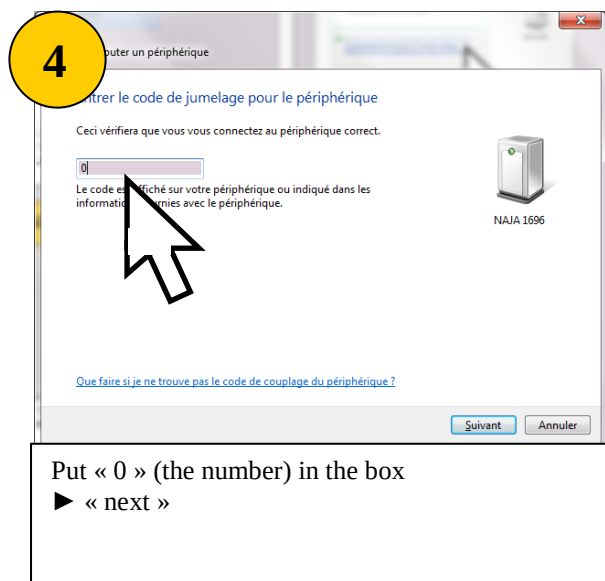
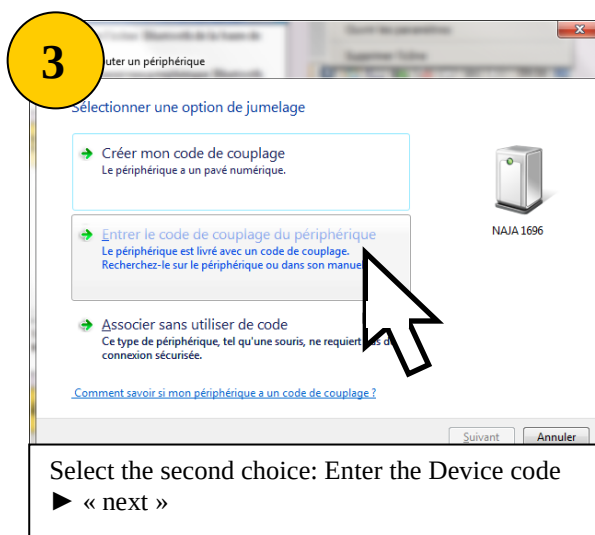
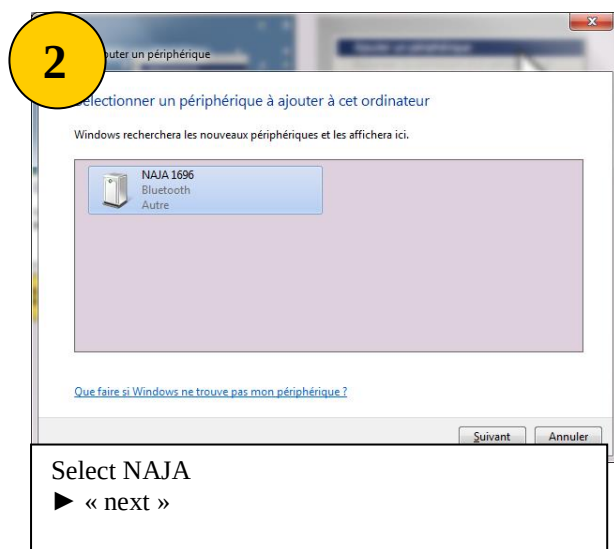
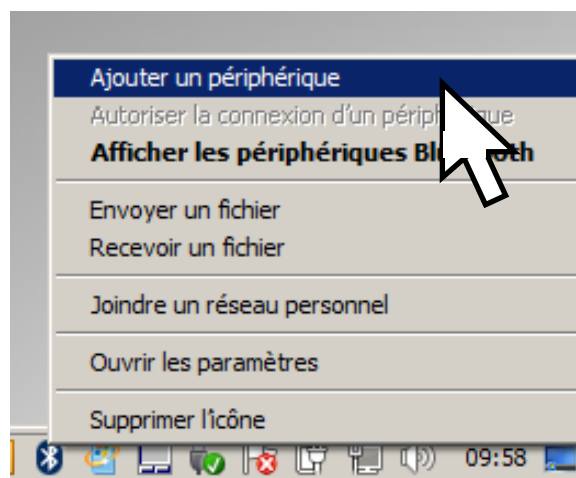
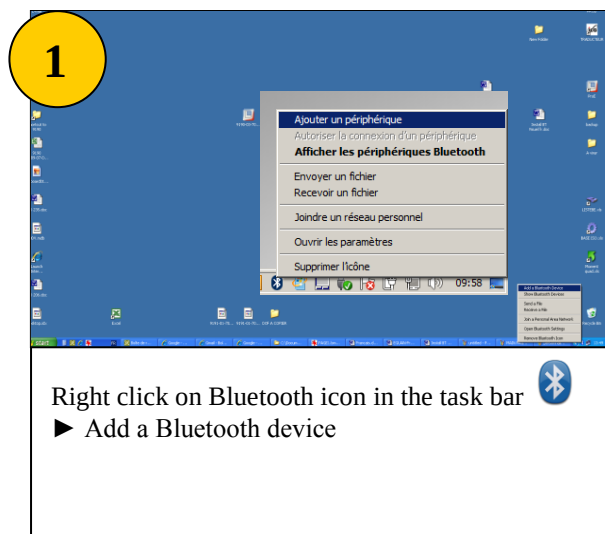


5. If this windows appears click on CONTINUE

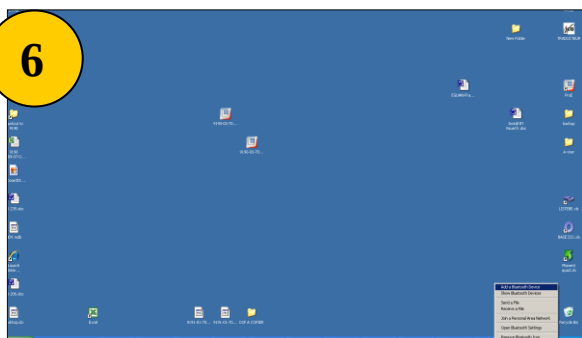


3- Bluetooth connection windows 7

Please first, switch on the NAJA measuring head



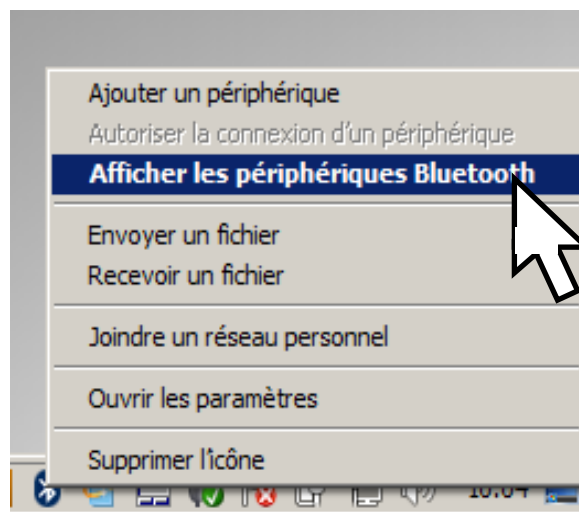
6



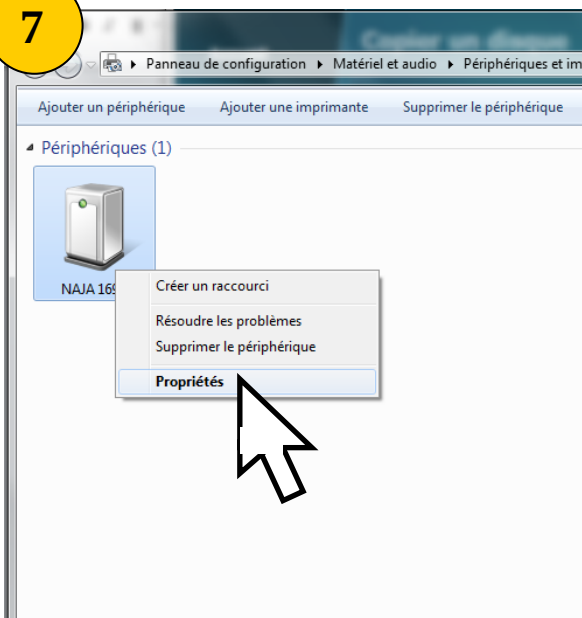
Right click on the Bluetooth Icon in the task bar»



► Display the Bluetooth devices



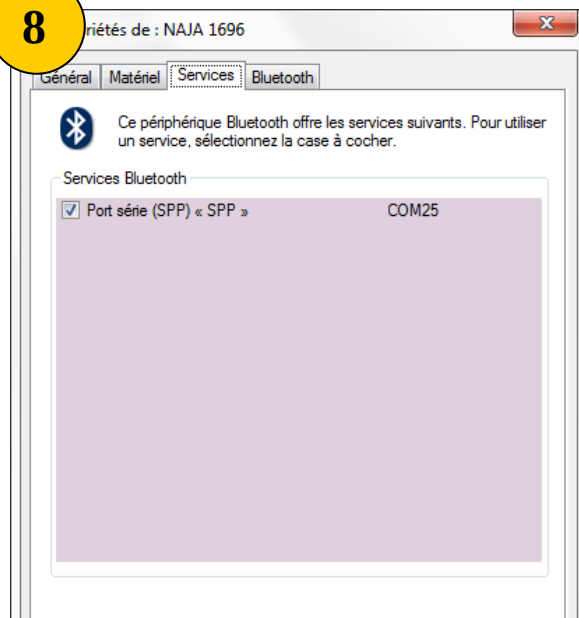
7



Right Click on the NAJA

► Properties

8

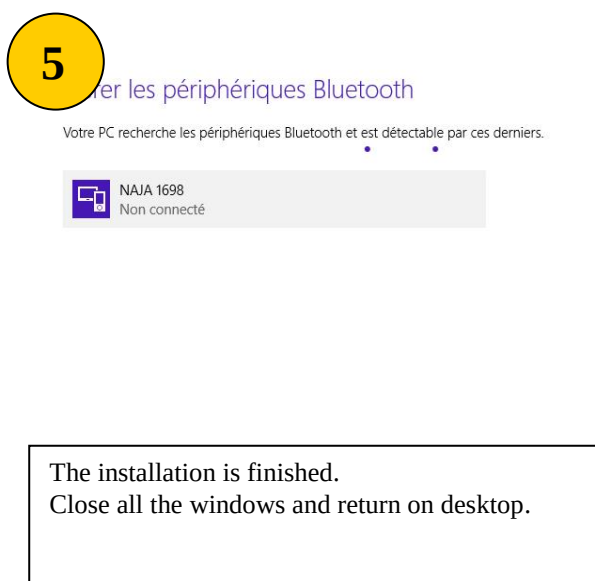
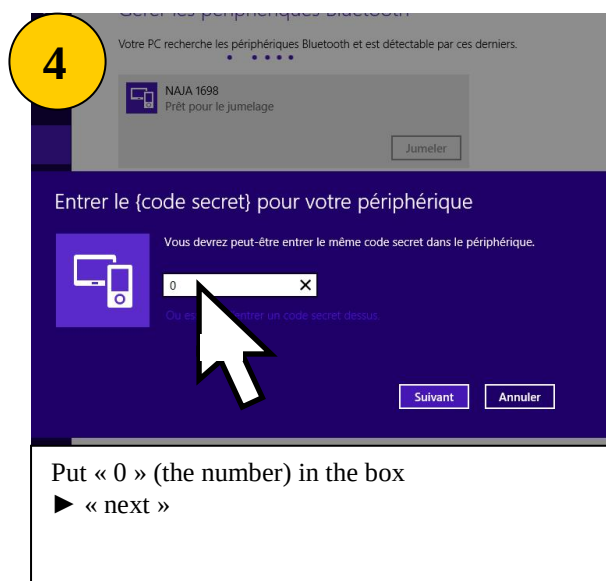
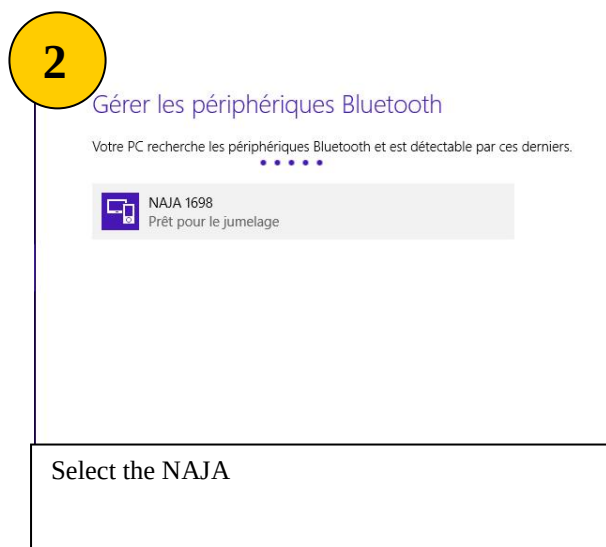
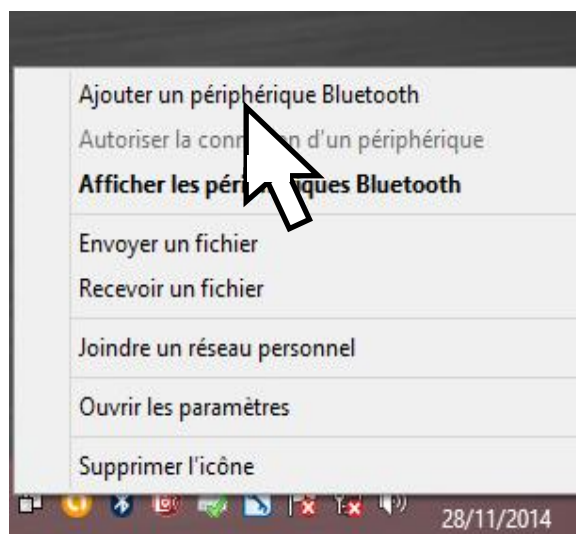
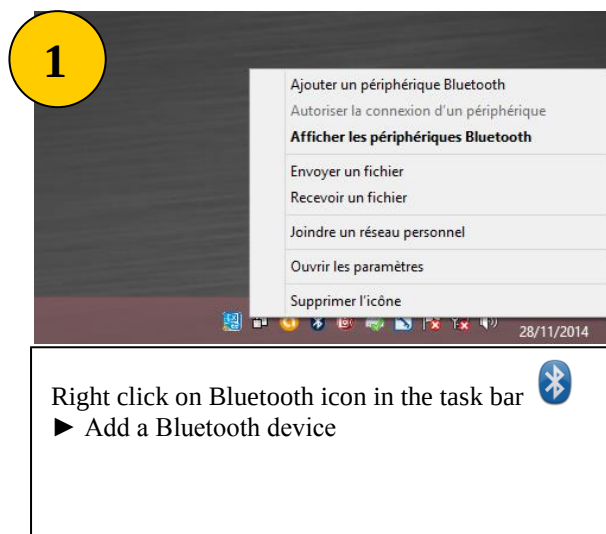


SERVICES tab

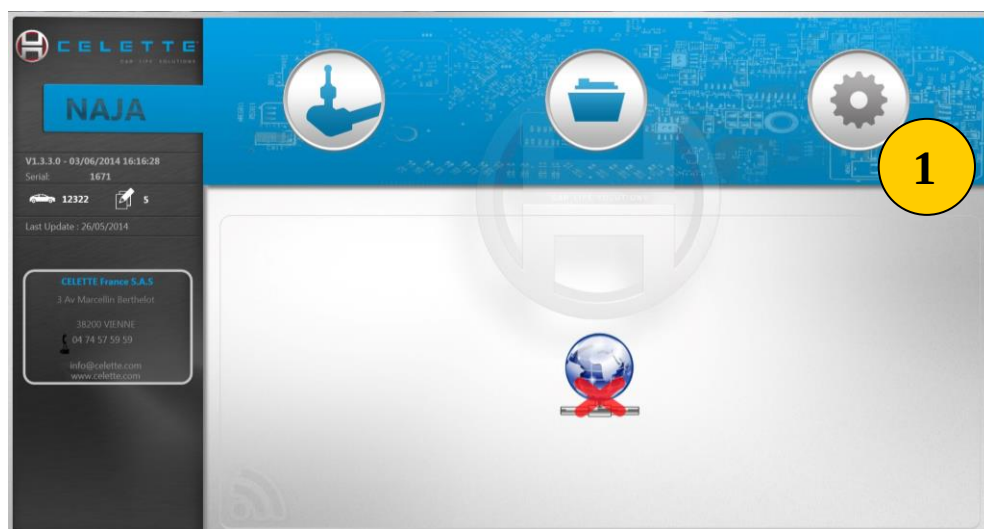
Note the Outgoing COM port, it will be used later in the software

4- Bluetooth connection windows 8

Please first, switch on the NAJA measuring head.



5- Naja software Bluetooth parameter

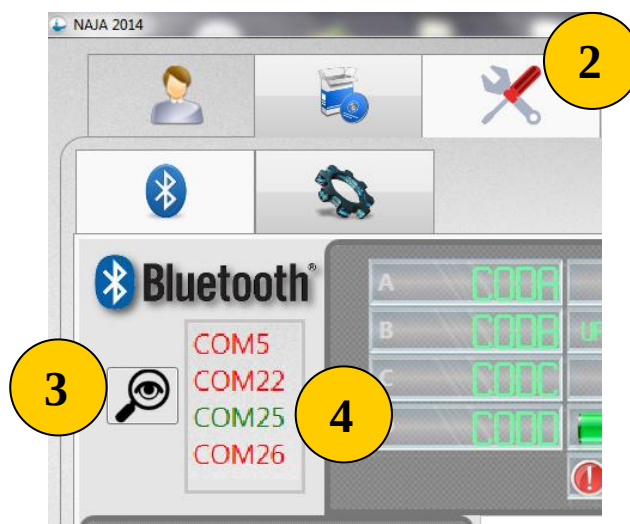


1) Click on parameter.

2) Click on Maintenance

3) Click on the magnifying glass

4) Click on green COM port.
In this example COM25

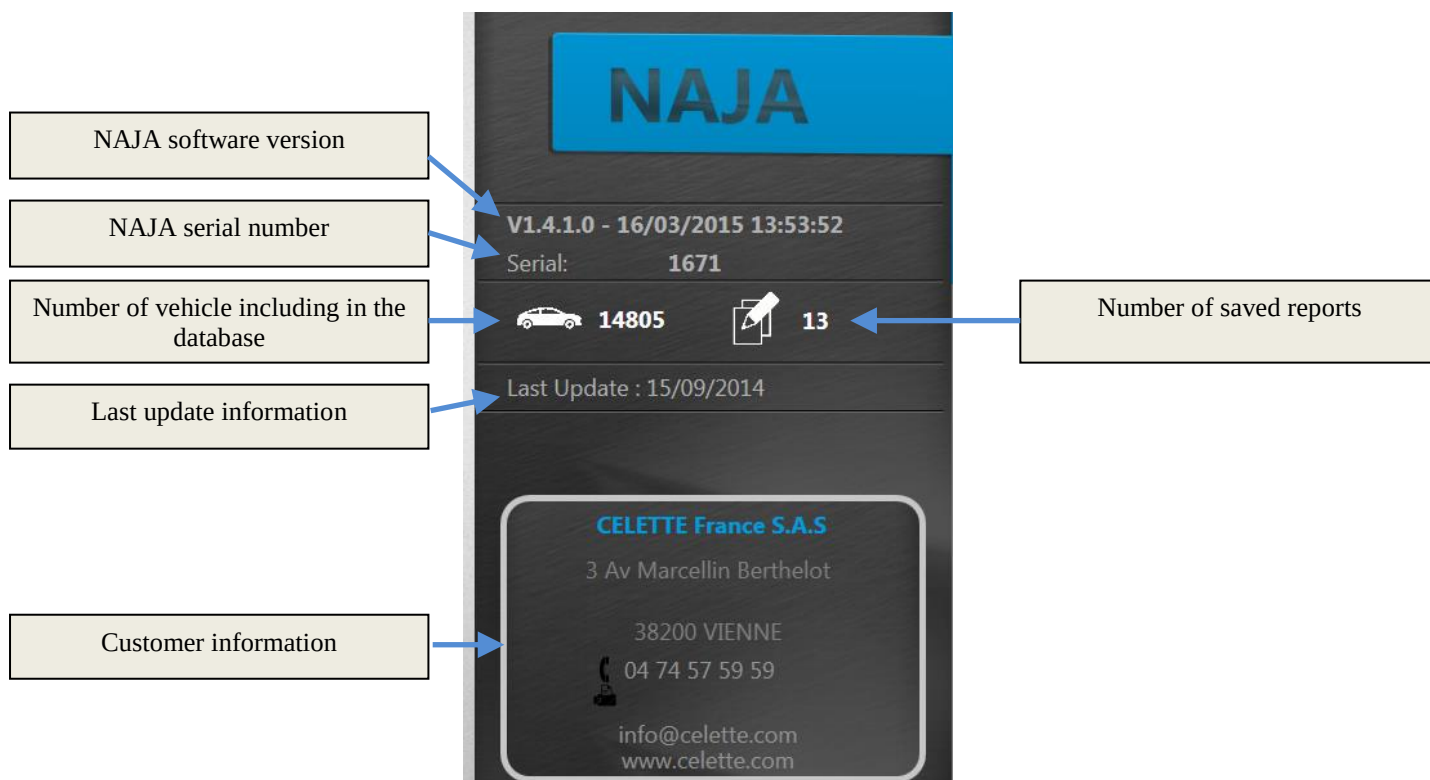
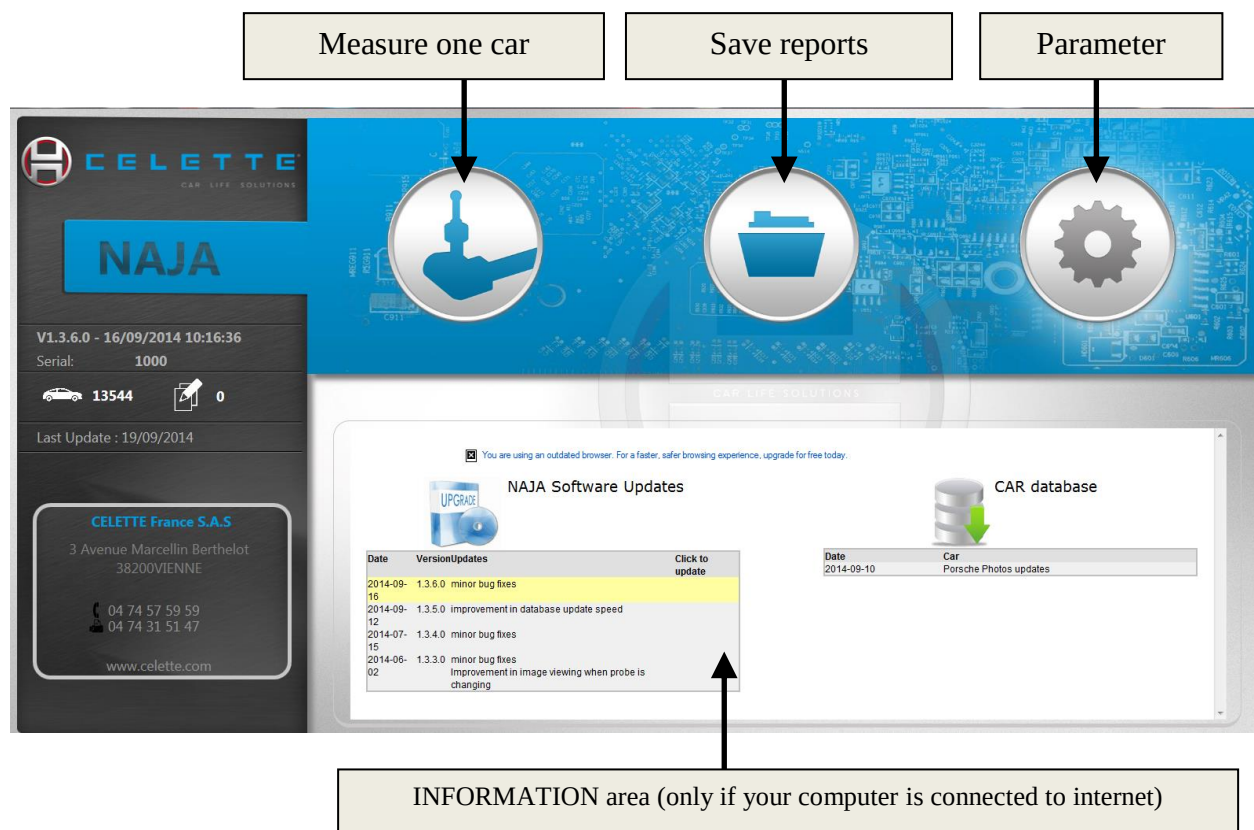


The COM port number will be save when you'll close completely the software.

This procedure is done just one time during the first installation of Naja software.

6- Main menu

The main screen has 3 main buttons and a general information area.



7- Software setting

1) From the main menu click on button parameter.



2) Customer tab

CELETTE Information
(not editable)

Customer Logo:

Click on the middle of this square to modify the logo.

**CLICK HERE
TO CHANGE
THE LOGO**

Customer information:

Enter your address.

NAJA 2014

CELETTE

Celette France

3 Av M. Berthelot
38200 Vienne
France

+33 474575959

+33 474315147

naja@celette.com

www.celette.com

CELETTE France S.A.S

Adresse du garage 3 Av Marcellin Berthelot
38200 VIENNE

04 74 57 59 59

info@celette.com

www.celette.com

3) Software tab

Language:

Click on your corresponding flag to modify the language in the software.

Sounds:

Default sound list used by the Naja software.

Update by:

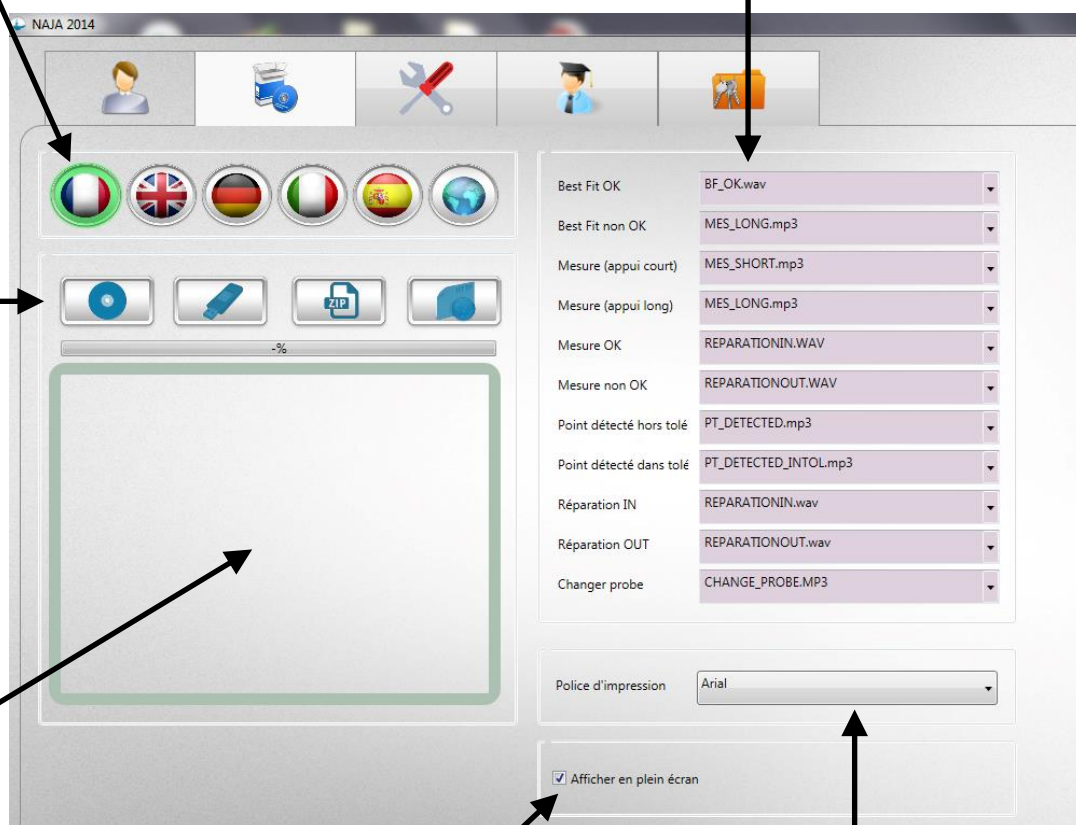
CD-ROM

USB stick

ZIP Folder

INTERNET
(Require Internet access).

Information area
used during
Internet update.



Full screen display:

Activate this option and the software will adjust automatically to your configuration.

Font setup:

Select the font to print out the measuring report.
(Prefer ARIAL).

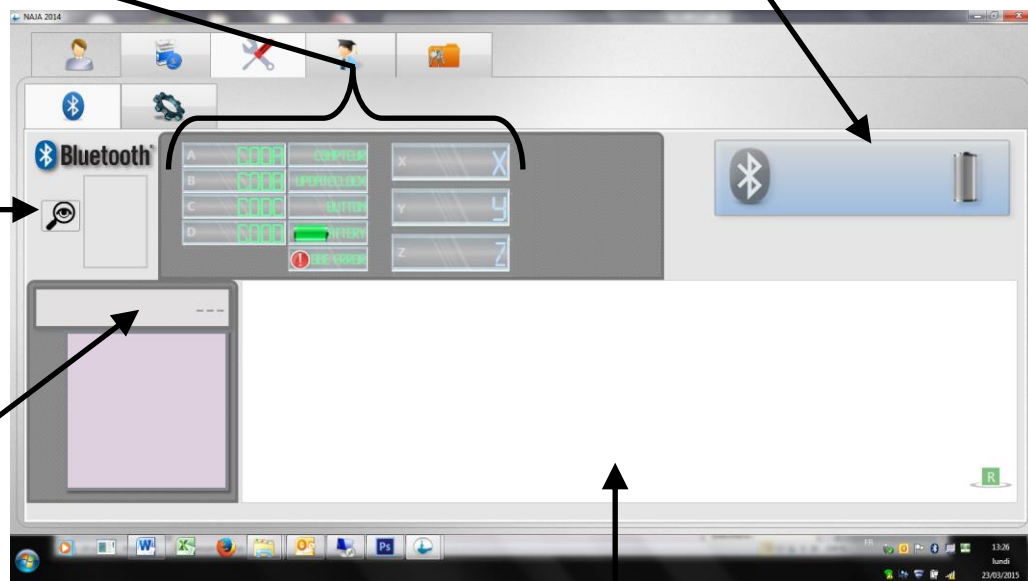
4) Maintenance tab

Measuring head information:
Coder diagnosis, button, and values.

Bluetooth link and battery information.

Port com research

Measuring distance between 2 points (eg: gauge bar) and summary table for the last measure.



Measuring head display to check displacement and coder information.

8- Measure a car

1) From the main menu click on the button to measure one car.

1

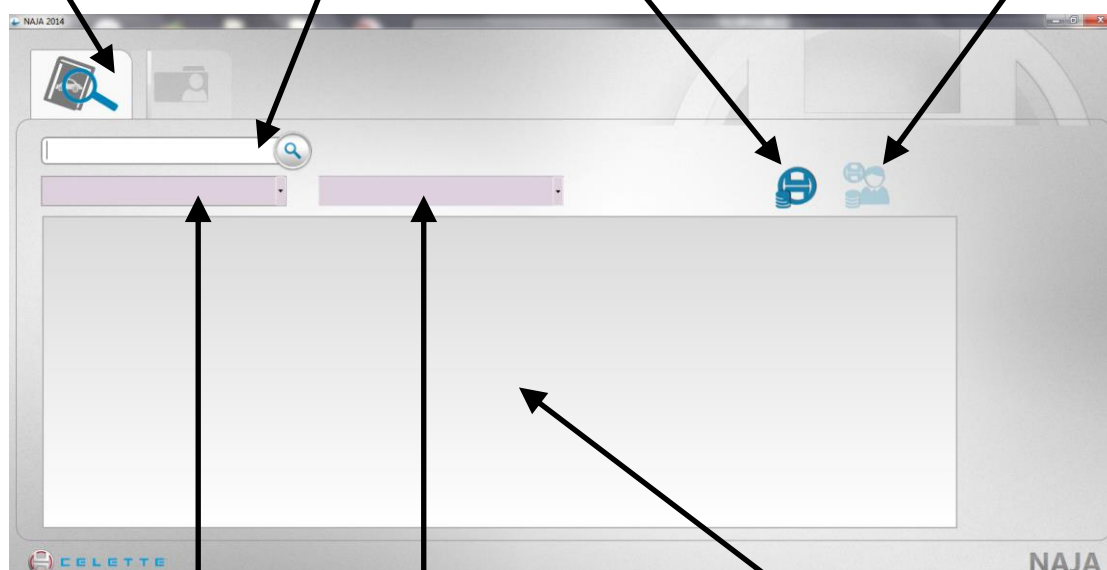


Measuring tab

Car research by key word.

CELETTE Data sheet Icon

Icon personal data sheet = data Celette + measuring point added by customer

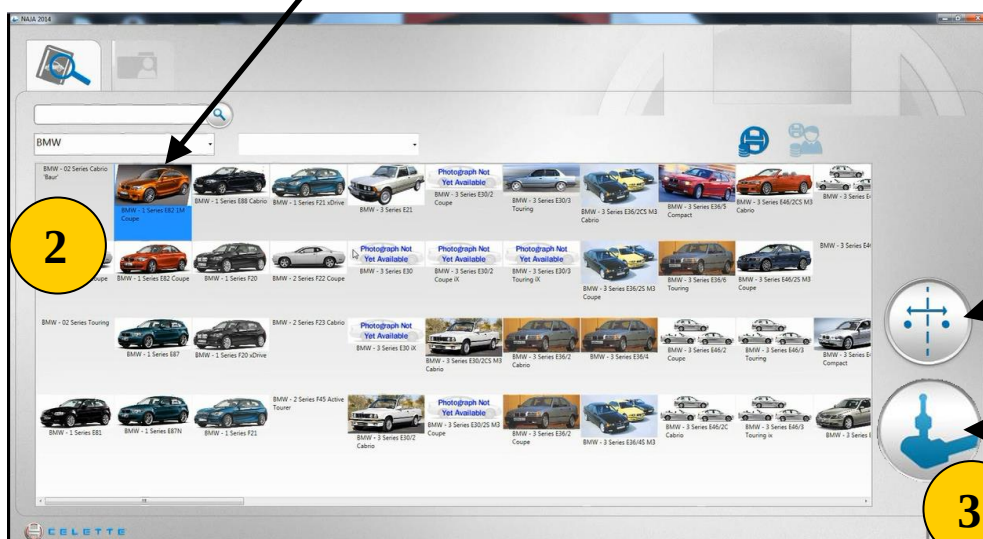


Car research by MAKES and MODELS.

View of available vehicle list.

2) Research and select the corresponding car.

2

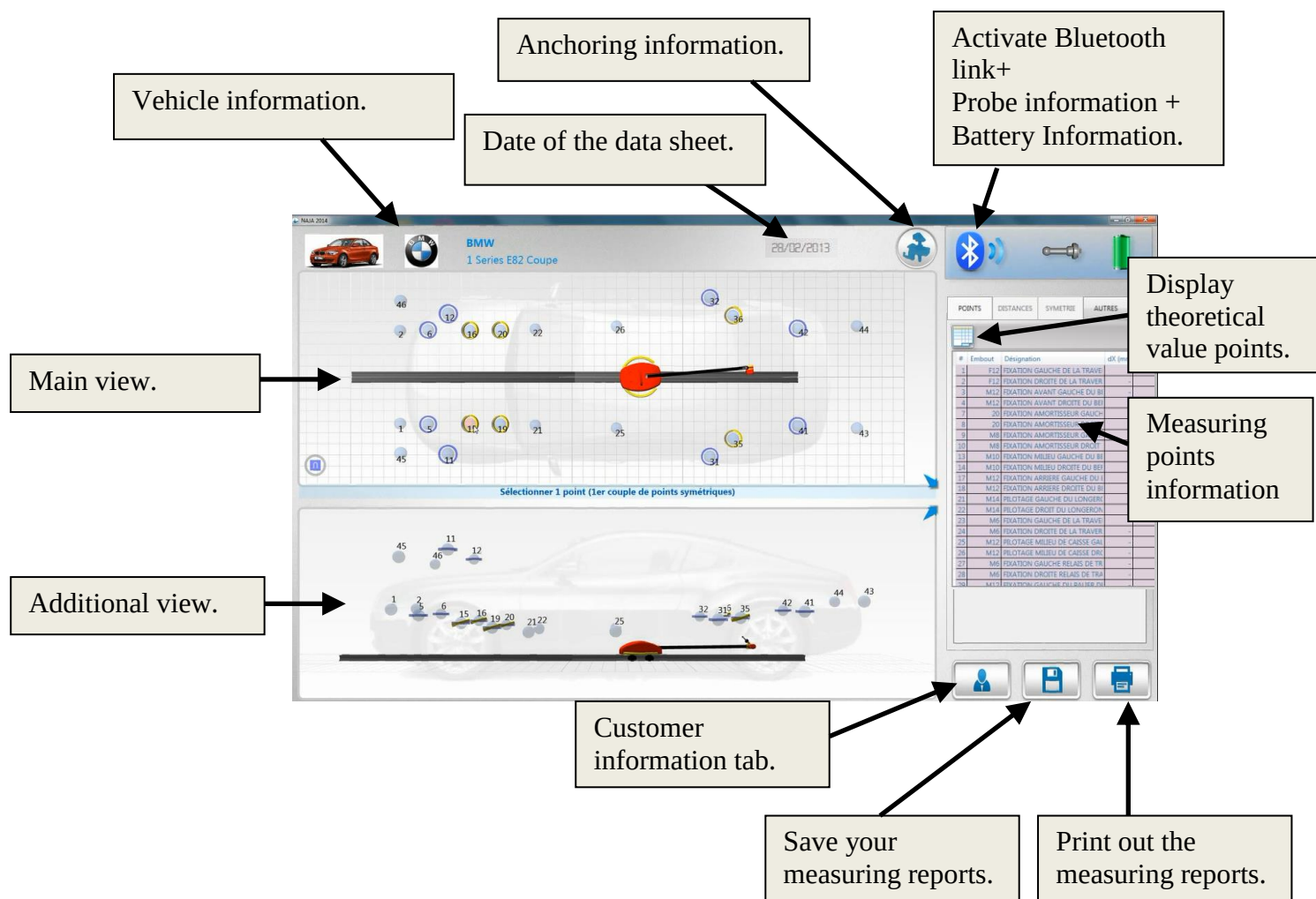
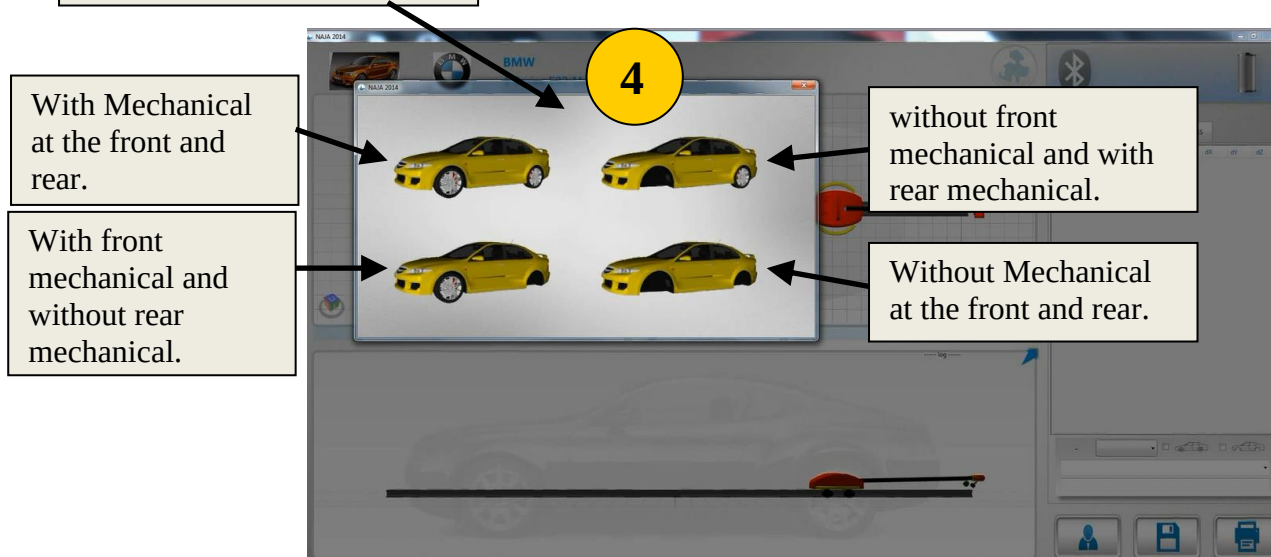


Measure by SYMMETRY

3) Validate your choice and measure with CELETTE data

3

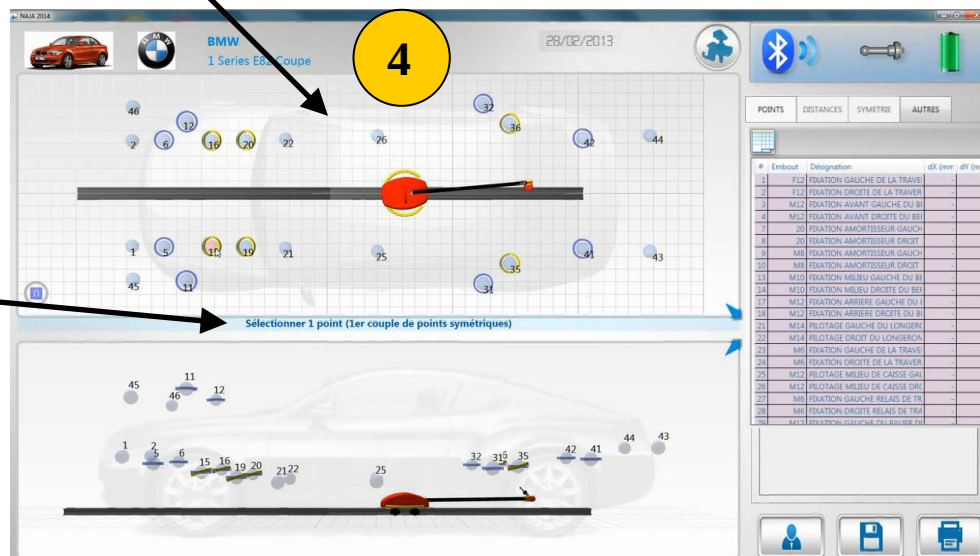
4) Select the mechanic style.



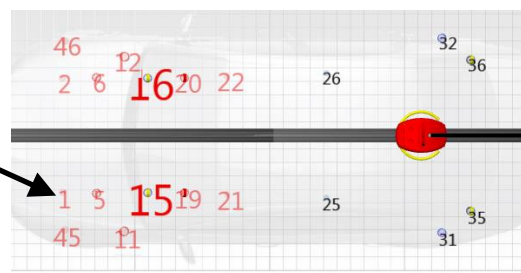


5) Select the 4 leveling points (points circled in yellow are safety points).

Follow the instructions under the main view.

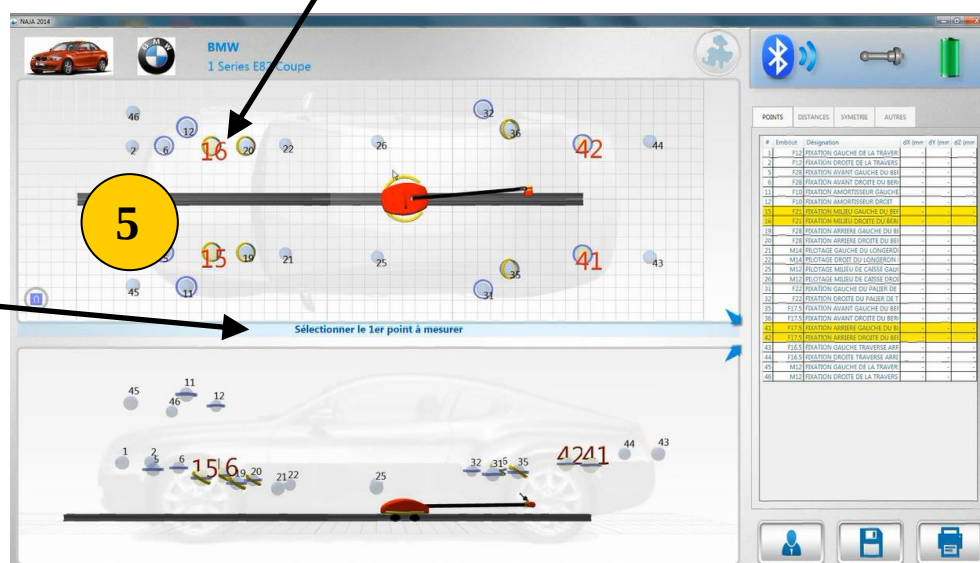


After have selected the first point, The second point that is symmetric is automatically selected, the red point around these tell you that you cannot take these points in 3eme and 4eme points because the minimum distances is not respected.



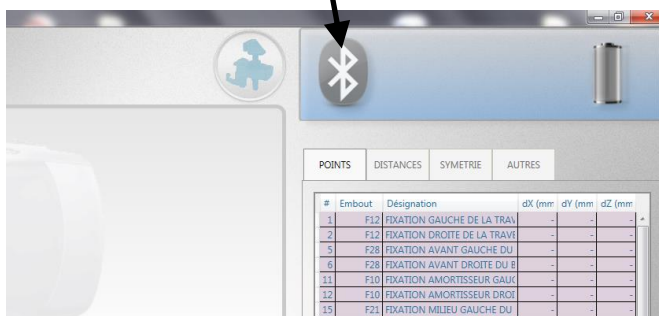
The 4 leveling point selected appear in red. In this example the point: 15/16 and 41/42

Follow the instructions under the main view.

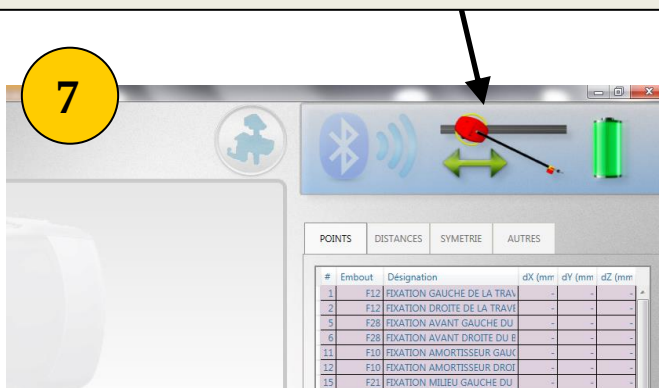


6) Select the first point that you'll measure.

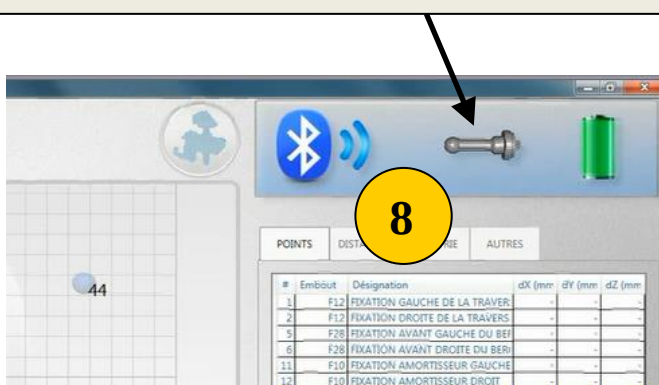
7) Before measuring your first point you need to activate the Bluetooth link between software and measuring head by clicking **JUST ONCE** on the Bluetooth icon.



8) The Bluetooth link is on progress, you need now to move the measuring head on the rail for finalize Bluetooth initialization.



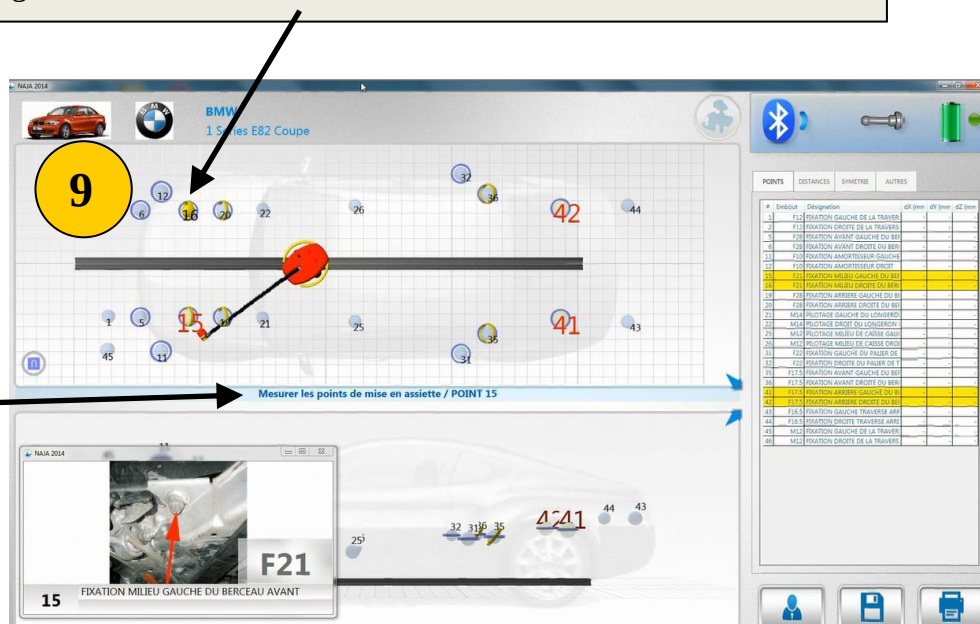
9) When the displacement is correct the probe appear and Bluetooth icon running. You can now measure your first leveling point selected previously





10) When the point is measured it become yellow and the number of the point become black again.

Follow the instructions under the main view.



11) Measure the 3 others points.

If the leveling is correct, a validation sound is emitted.

If the leveling is not correct, a different sound is emitted and best-fit windows appear with different choice.

For a best Fit lower than 5, it's possible for a unibody vehicle and 7 for a frame body, according to the car manufacturer. Then it is recommended to exit the measure screen and start a new leveling.



12) Measure all the others points.

When you are approaching a point a sound goes off to help you to locate it, then when you're near this point another sound is emitted and an information window about it appear.

Picture of the point.

Real-time targeting the X and Y position relative to the theoretical.

Real-time targeting the Z position relative to the theoretical.

Values compare to the theoretical values.

Socket identification

The screenshot shows the NAJA 2014 software interface. On the left, a 3D model of a car chassis is displayed with a point highlighted. A red arrow points to the point, labeled 'Socket identification'. Below the model, the point number '19' is shown, followed by the designation 'FIXATION ARRIERE GAUCHE DU BERCEAU AVANT' and the comment 'DEPOSER LA PROTECTION PLASTIQUE'. On the right, a table displays measured values for X, Y, and Z coordinates, comparing them to theoretical values. The X value is -83.7, Y is 31.5, and Z is -69.3. A diagram of the nozzle positioning is also shown.

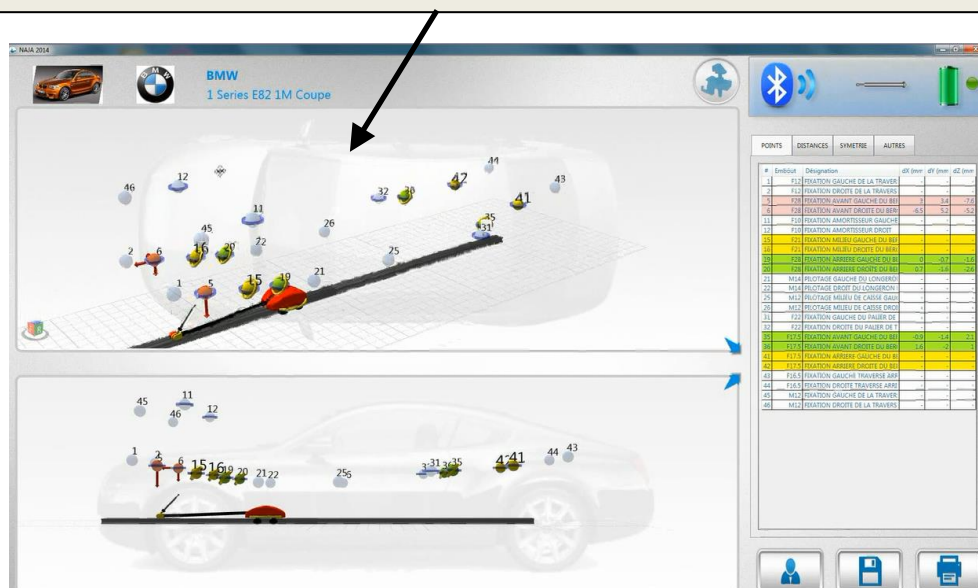
Point number.

Point designation.

Point Comment.

Details about the positioning of the nozzle.

At any time you can move via mouse, zoom and focus the views at your convenience to help you better understand the deformation of the points.



13) At the end of control, save the customer information by clicking on the following icon. (At the bottom of the page).



12

You must enter information in the 2 pink boxes: registration and VIN (vehicle identification number 17 characters) to save the information.

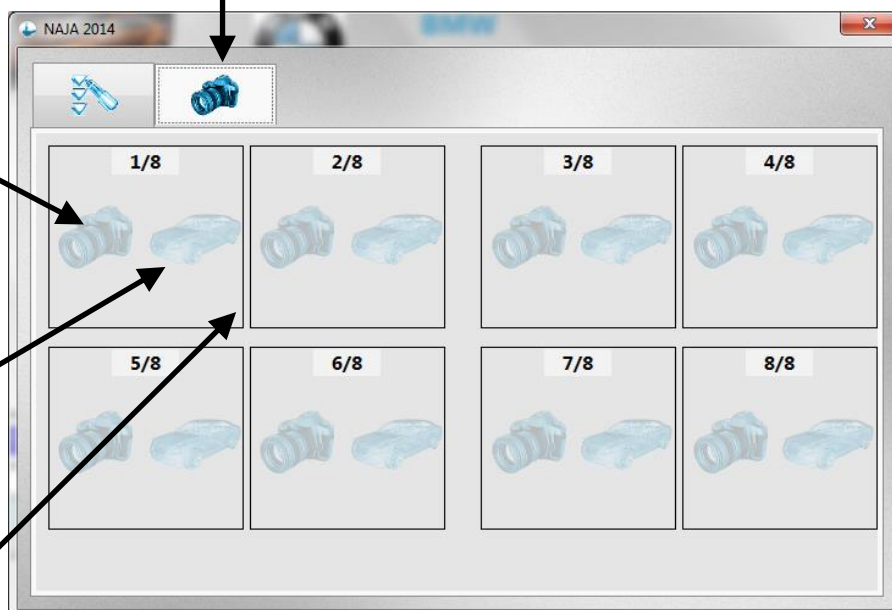
The screenshot shows the 'NAJA 2014' window with a form for entering vehicle data. The form includes fields for 'Marque' (BMW), 'Modèle' (1 Series E82 1M Coupe), 'Opérateur', 'ID Rapport' (2014112703797), 'Nom propriétaire', 'Immatriculation' (pink box), 'Kilométrage', 'VIN' (pink box), 'Demandeur', 'Téléphone', 'Assurance', and 'Téléphone'. There are also sections for 'Commentaires' and 'Commentaires confidentiels'.

In the Pictures tab you can add if necessary 8 photos that you consider important for understanding the control report.

To add a picture, click on the camera picture, a Windows screen will appear to select the picture and validate.

To add a print screen picture, click on the car icon, a Windows screen will appear to select the picture to validate.

To delete the picture, click on garbage icon.

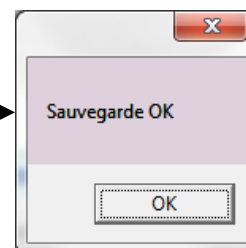


14) After having filled out the customer information, close the window and click on the save icon to save your measurement.



13

A window will inform you that the measurement report has been saved. Click on OK



15) Click on the report icon to view your measuring report.



14

16) To print out your report click on printer icon at the top left corner.

15



17) You can now close all the windows and exit the software.



9- Reopening report

1) From the main menu click on button save reports.

1



Research area.

All the saved reports are listed.

NAJA 2014

Date	ID Rapport	Marque	Modèle	Propriétaire	VIN
17/06/2014 08:03:47	2014061703569	PEUGEOT	407 1. Generation (6D) Sedan		
17/06/2014 07:49:07	2014061708404	PEUGEOT	407 1. Generation (6D) Sedan	KLAUSS	
18/06/2014 14:39:56	2014061805111	PEUGEOT	407 1. Generation (6D) Sedan		
22/10/2014 09:20:24	2014102202195	ACURA	NSX 1. Generation (NA1) 'Targa'		
05/11/2014 10:35:16	2014110500079	ACURA	NSX 1. Generation (NA1)		h VIN
05/11/2014 11:21:08	2014110501180	ACURA	NSX 1. Generation (NA1)		2
29/01/2015 10:12:59	2015012905863	ACURA	NSX 1. Generation (NA1)		pm 2015
20/02/2015 11:29:00	2015022002829	ACURA	NSX 1. Generation (NA1)		
29/01/2015 10:12:59	ctrl std + dist	ACURA	NSX 1. Generation (NA1)		pm 2015
29/01/2015 10:12:59	ctrl std + dist + sym	ACURA	NSX 1. Generation (NA1)		pm 2015
04/02/2015 15:37:22	ctrl std avec best fit 14.3	ACURA	NSX 1. Generation (NA1)		1706
17/03/2015 14:46:11	2015031709944	ACURA	NSX 1. Generation (NA1)		
17/03/2015 13:37:11	TEST 1.4.1.0-1	ACURA	NSX 1. Generation (NA1)		WW

NAJA

Delete the report

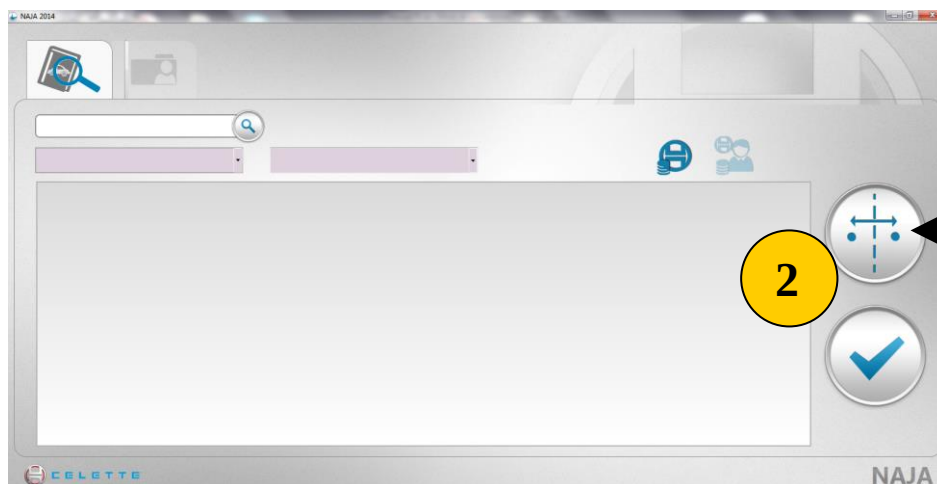
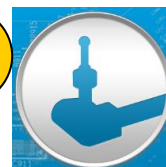
Show the report.

Reopening the report.

10- Measure by symmetry

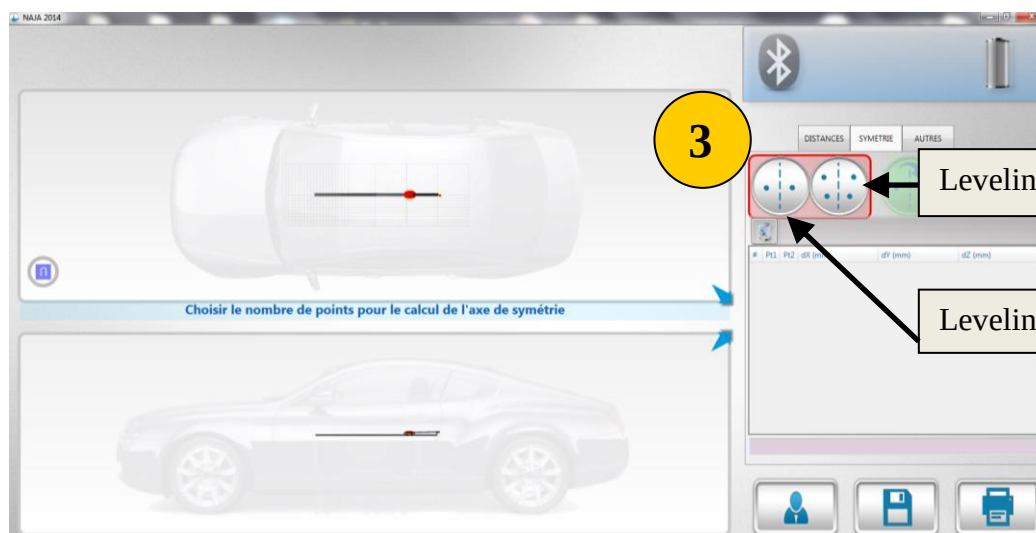
1) From the main menu click on button measure one car.

1



2) Click on Measure by SYMMETRY

3) Measure the leveling of the car to determine the symmetry plan, or 2 points, or 4 points. We recommend to you to do the leveling on 4 points.



A best-Fit window may appear if the measurements are not correct.



4) Choose the method of measurement.



Measure one point, the symmetric point is automatically created by the software, and you need to measure this point. The values correspond to the difference between the measured point and the theoretical coordinate calculated compared to the plan of symmetry.

Measure one point, the symmetric point is automatically created by the software, but compare to the other mode you are not forced to measure immediately, so you can measure all the left point of a vehicle and then measure all symmetrical points create at the right.

11- Measure distance

1) In any checking mode CELETTE or SYMMETRY, click on tab DISTANCES.



2) After click one time on any point and click on a second point. The distances are created and appear on the table.



The screenshot shows a software interface with a menu bar (POINTS, DISTANCES, SYMETRIE, AUTRES) and a table of measurement data. Callouts point to specific columns and rows:

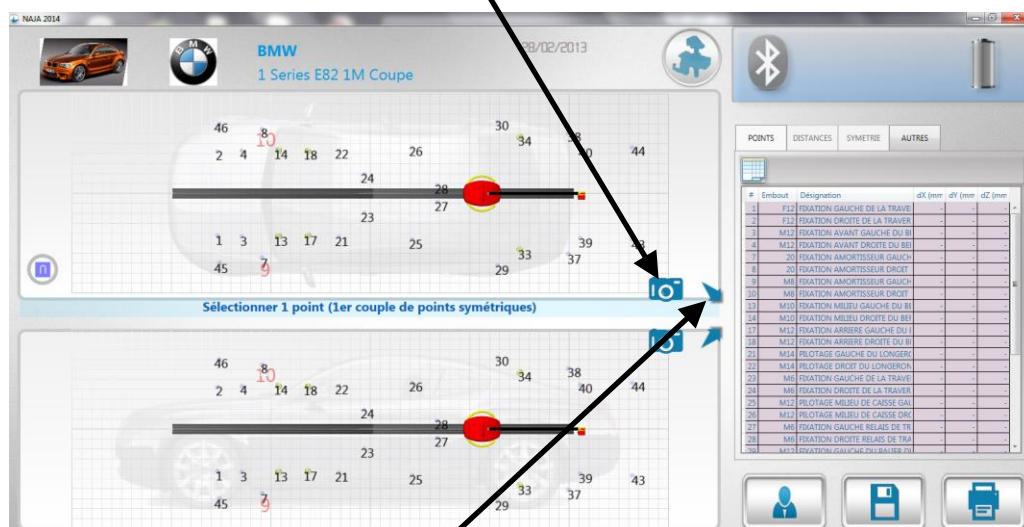
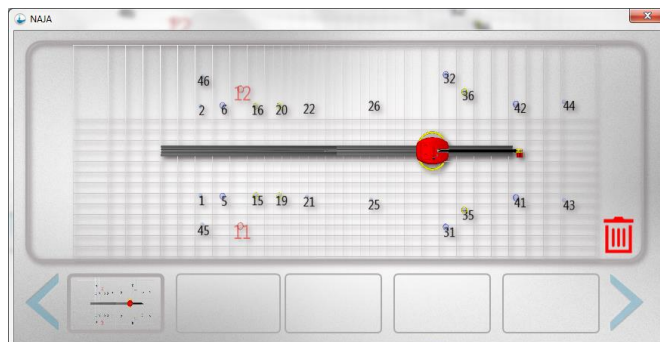
- First point number.** Points to the 'Pt1' column.
- Measuring value** Points to the 'Mes (mm)' column.
- Difference between measuring value and theoretical value.** Points to the 'Ecart (mm)' column.
- Line number.** Points to the first column (line number).
- Distance between the second point and the symmetry plan.** Points to the 'D2 (mm)' column.
- Second point number.** Points to the 'Pt2' column.
- Theoretical value** Points to the 'Theo (mm)' column.
- Distance between the first point and the symmetry plan.** Points to the 'D1 (mm)' column.

	Pt1	Pt2	Mes (mm)	Theo (mm)	Ecart (mm)	D1 (mm)	D2 (mm)
1	6	5	880.9	873.4	7.5	407.3	398.1
2	5	16	868.5	873.4	4.9	394.5	401.3
3	S1	S3	402.0	-	-	-	-
4	2	S4	404.6	-	-	-	-

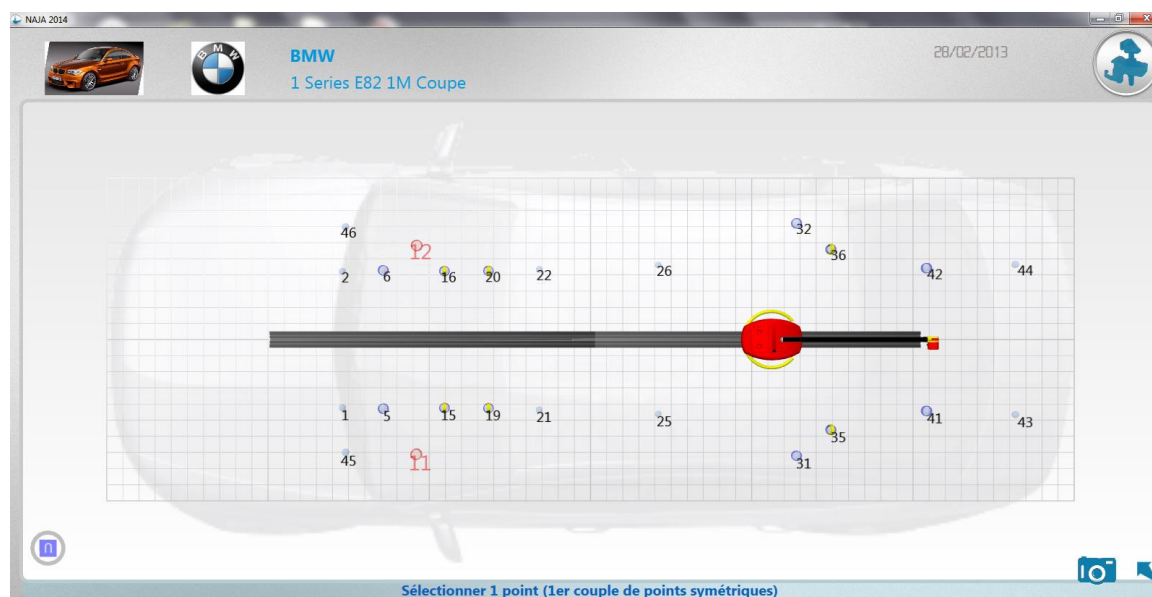
You can delete one distance by clicking on the corresponding line (it appears blue) and by clicking on the garbage tab above the table.

12- Additional information

Take a print screen of the main view

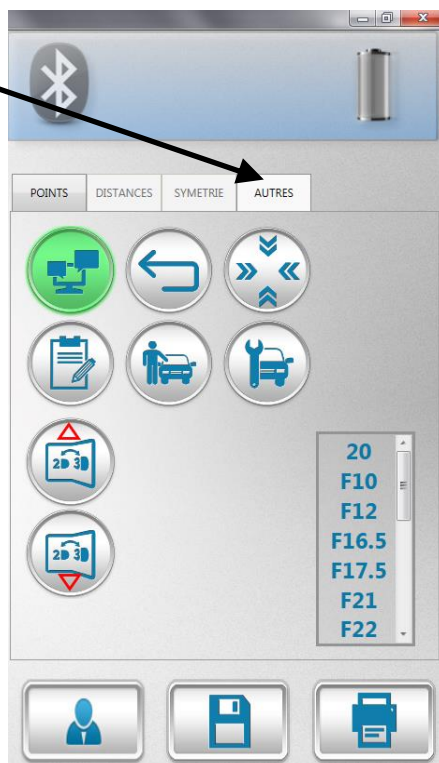


Show main view on full screen



Return to standard view

Tab: **OTHERS**



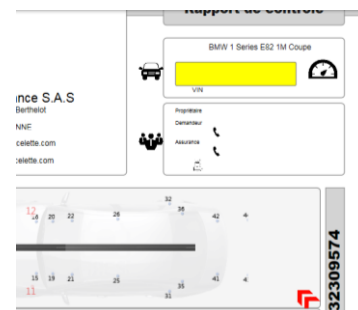
Icon: Activate or not the point information windows. (Green when activated)



Icon: Start measurement of the car again; return to select the leveling point.



Icon: Car accident information, click on the arrow corresponding to the damage on the car. When it's red, it's activated and will appear on, print the report.



Icon: Print out the working data sheet.

User manual

1^{ère} édition le : 26/11/2014

Modifiée le :



Icon: Main view display



Icon: Additional view display



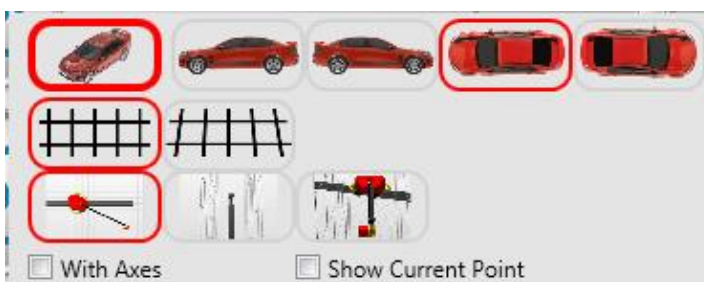
Icon: Repair mode
(See page 35)



Icon: Customize data sheet
(See page 39)



Socket list used to measure the car.

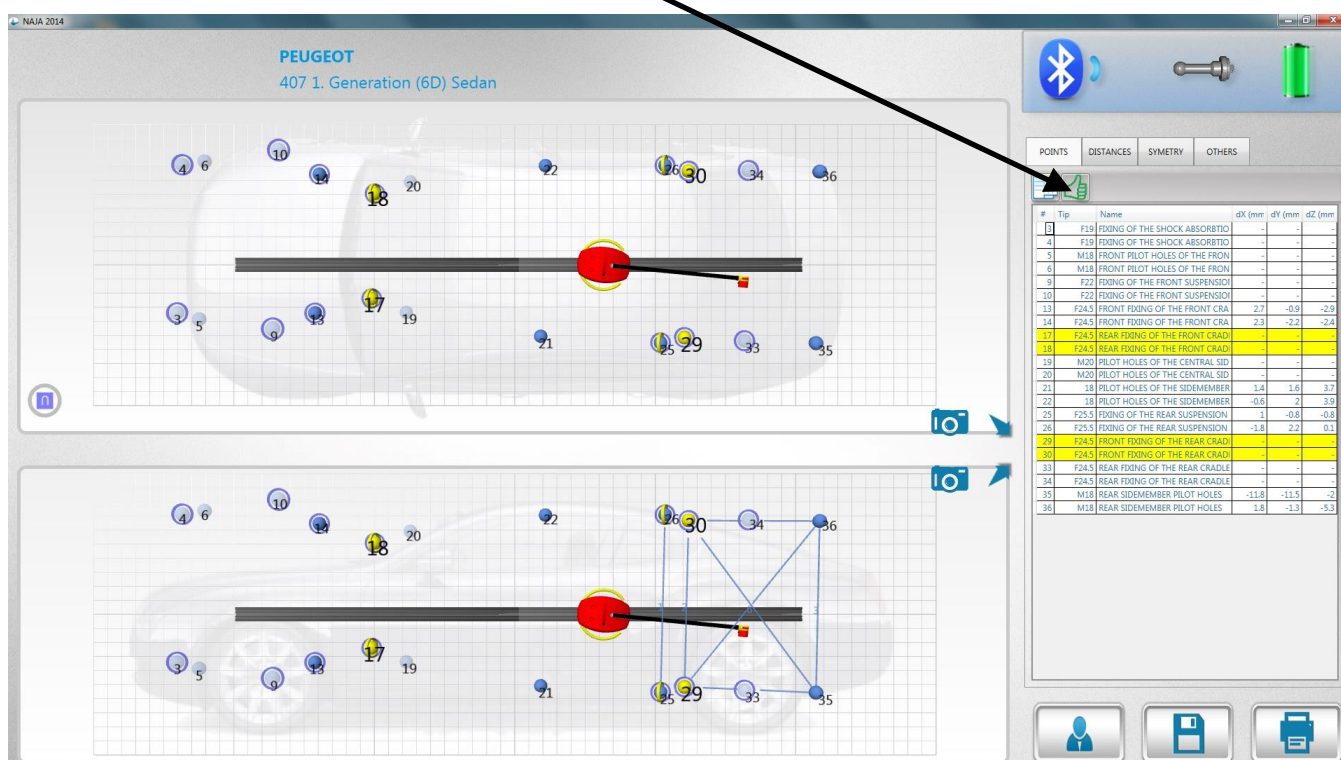




In the default display mode you are interpreting the measuring value this means that we apply a tolerance in X, Y, Z for each point; which allows to draw your attention to the points involving large differences (here in red).



By clicking on the icon of thumb you switch to not measuring value interpreted mode, this means that we display the differences in X, Y, Z for points you measured against their theoretical value.

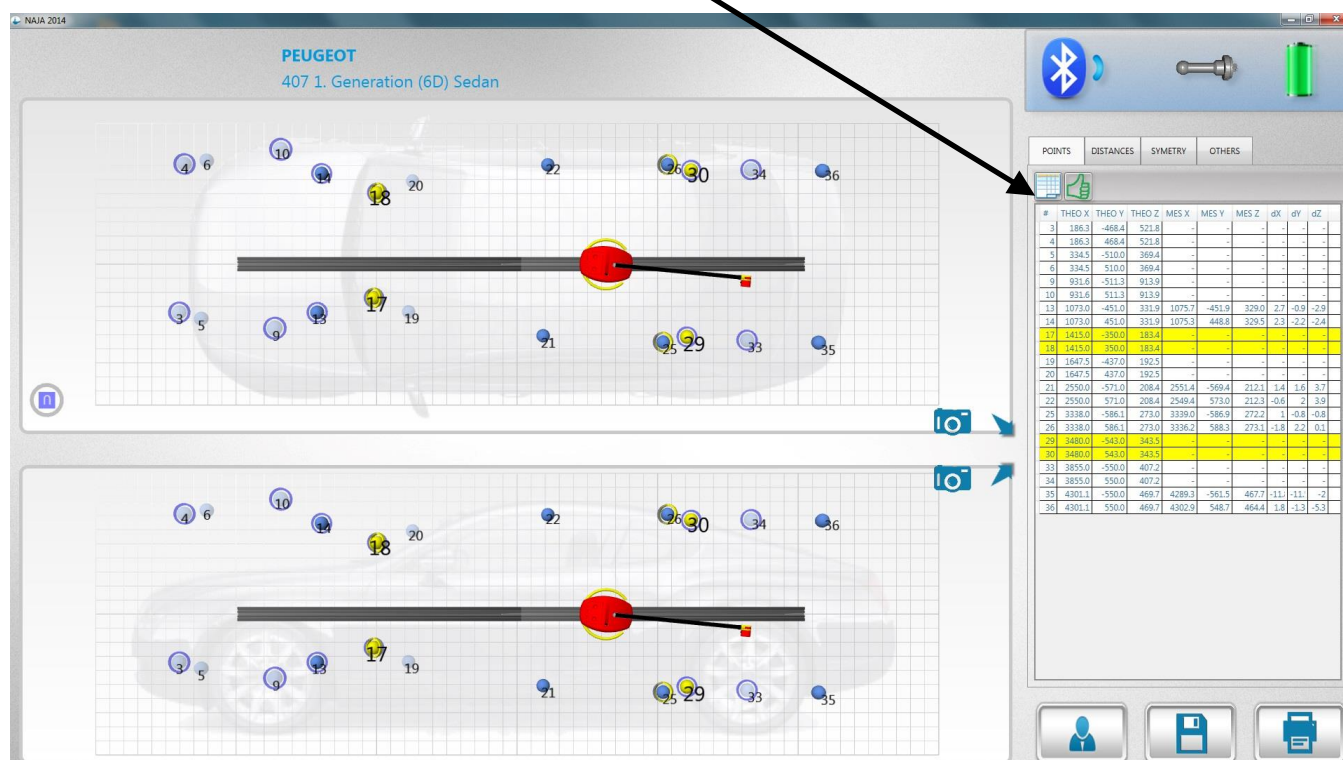




By clicking on the icon in the default display table you view the theoretical dimensions of the measured point and the measuring value and the differences.

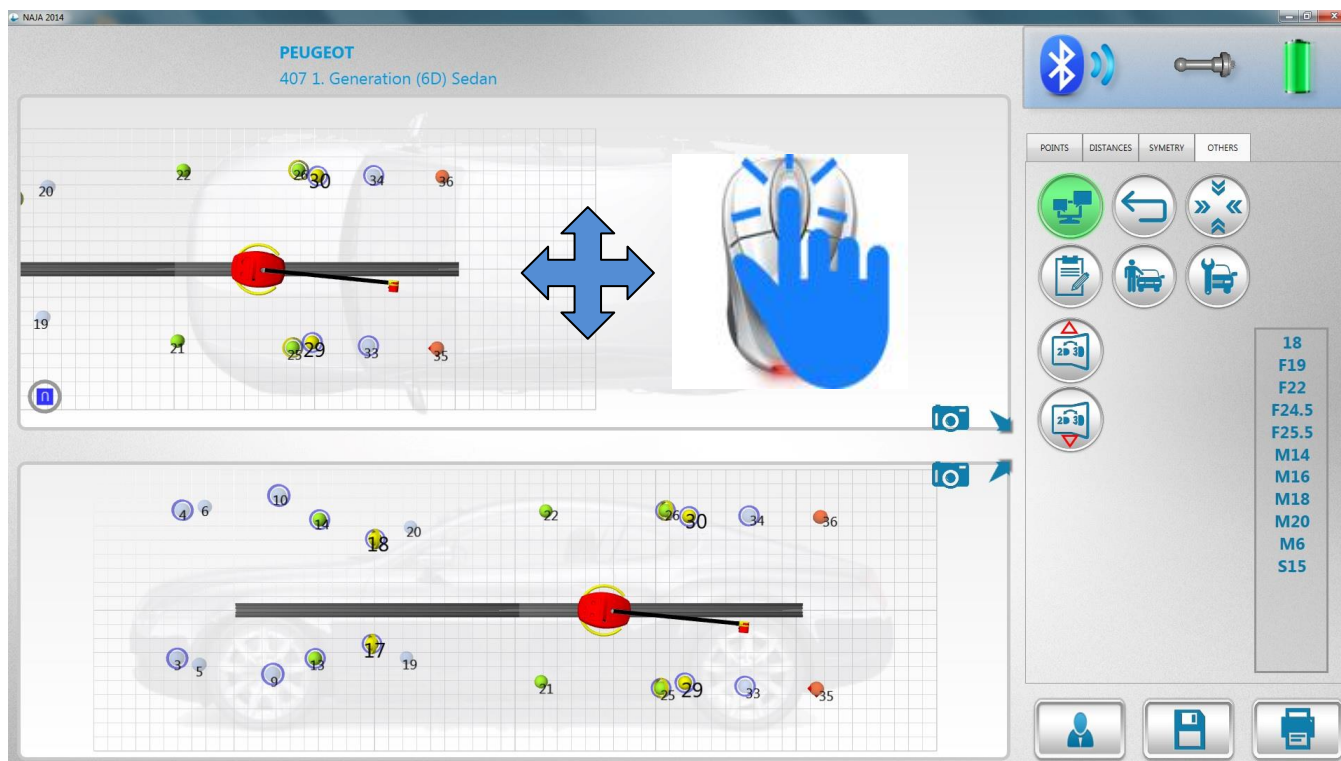


By clicking on the icon table on not-interpreting mode you display the theoretical value of the point and the measuring value and the difference.





By holding down the center button of the mouse you can move the active view.

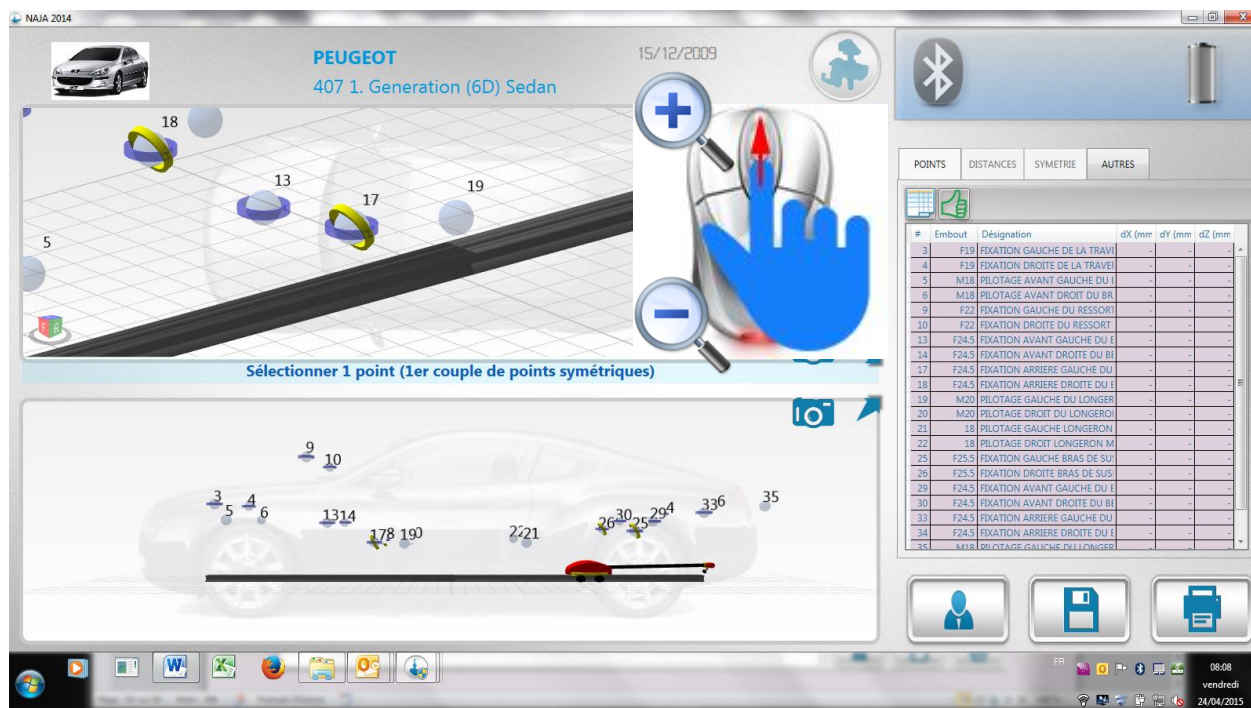


By holding down the right mouse button you can move the active 3D view.





By rolling the mouse wheel you can zoom in and out on the active view.





13- Repair Mode

After measuring the vehicle, click on the tab: OTHER



Click on icon: Repair mode

Follow the information in the center of the screen.

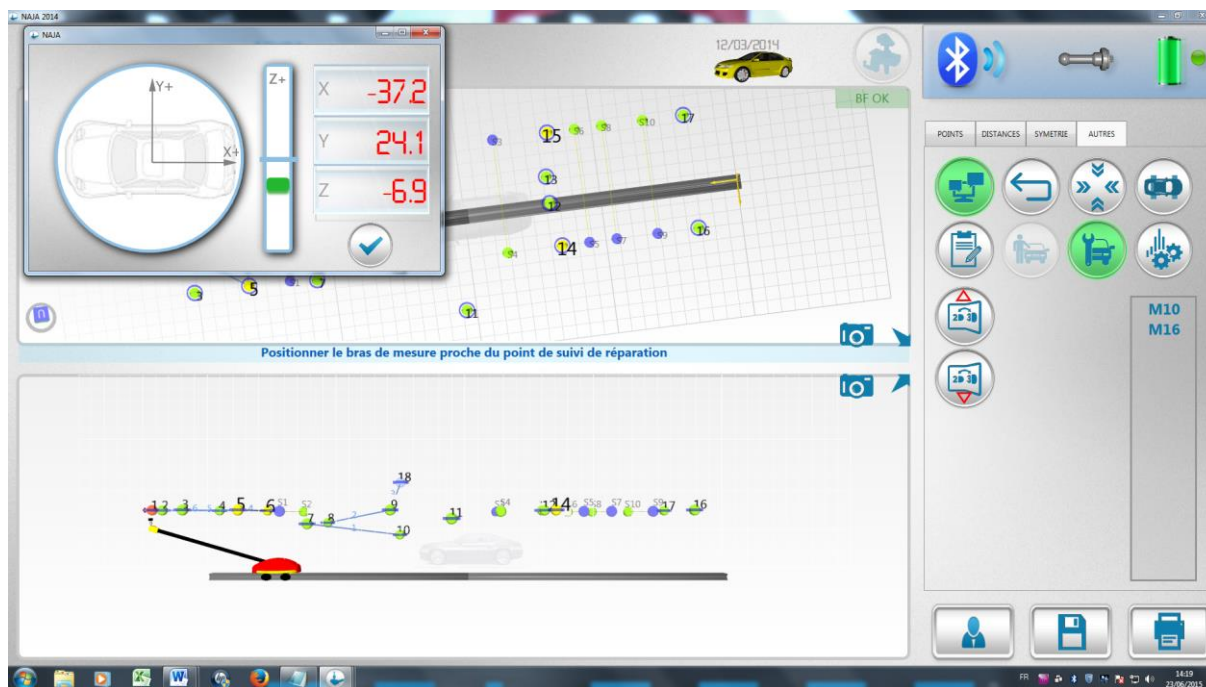
1) Select the false measured point to repair.



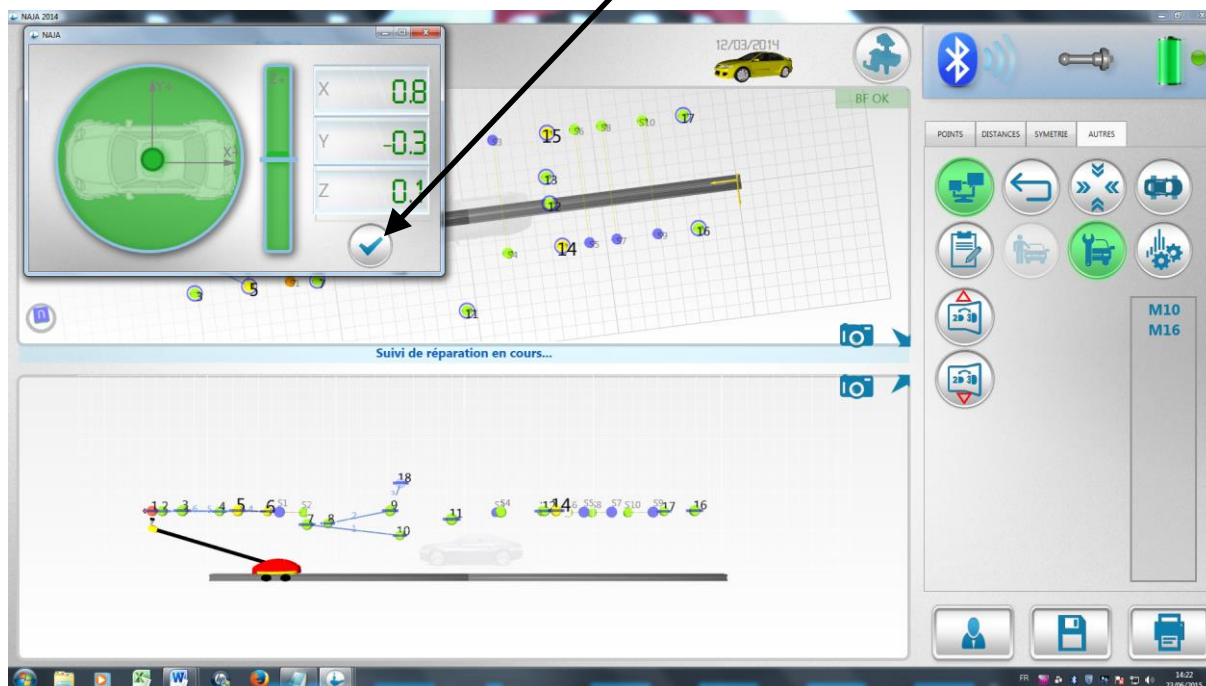
2) Position the repair part and validate.



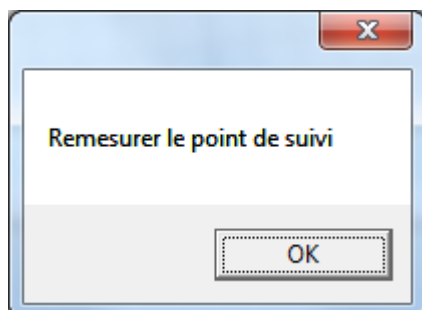
3) The values of deformation appear, you can proceed with straightening.



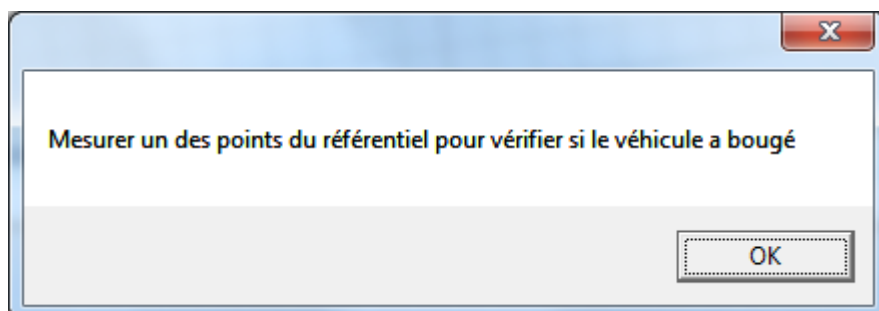
4) When values are green, straightening is sufficient. Click on VALIDATE.



5) Measure the point again to confirm straightening.

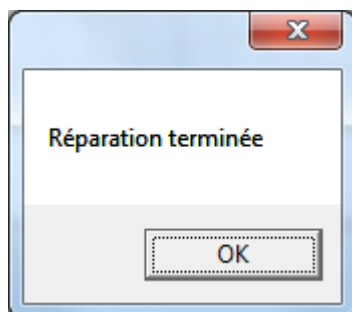


6) Measure the point again on of the leveling point (yellow), to validate the repair of the point.
This measure ensures you that the vehicle has not moved during straightening.





7) If the leveling point is good, the repair of the point is successful.



If the leveling point is not good, follow the instructions on the screen.

14- Customize data sheet mode

This mode allows you to create non-existing point based on CELETTE sheet and record them for future measurement of another identical vehicle.

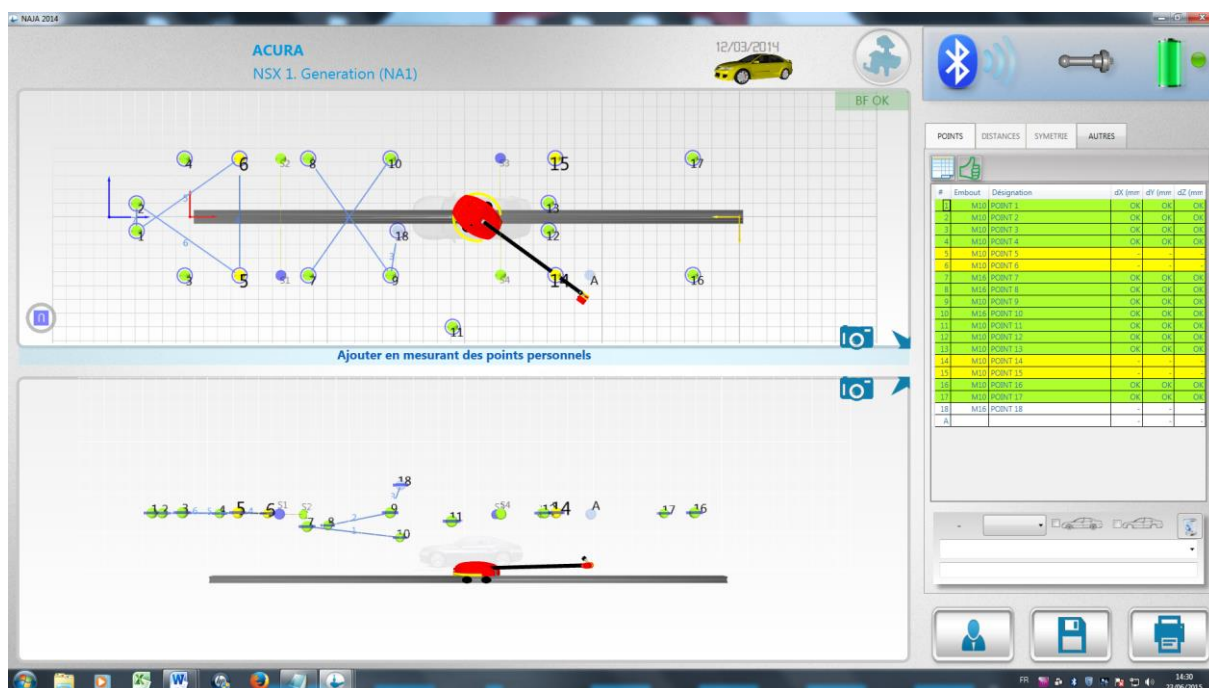
After measuring the vehicle, click on the tab: OTHER



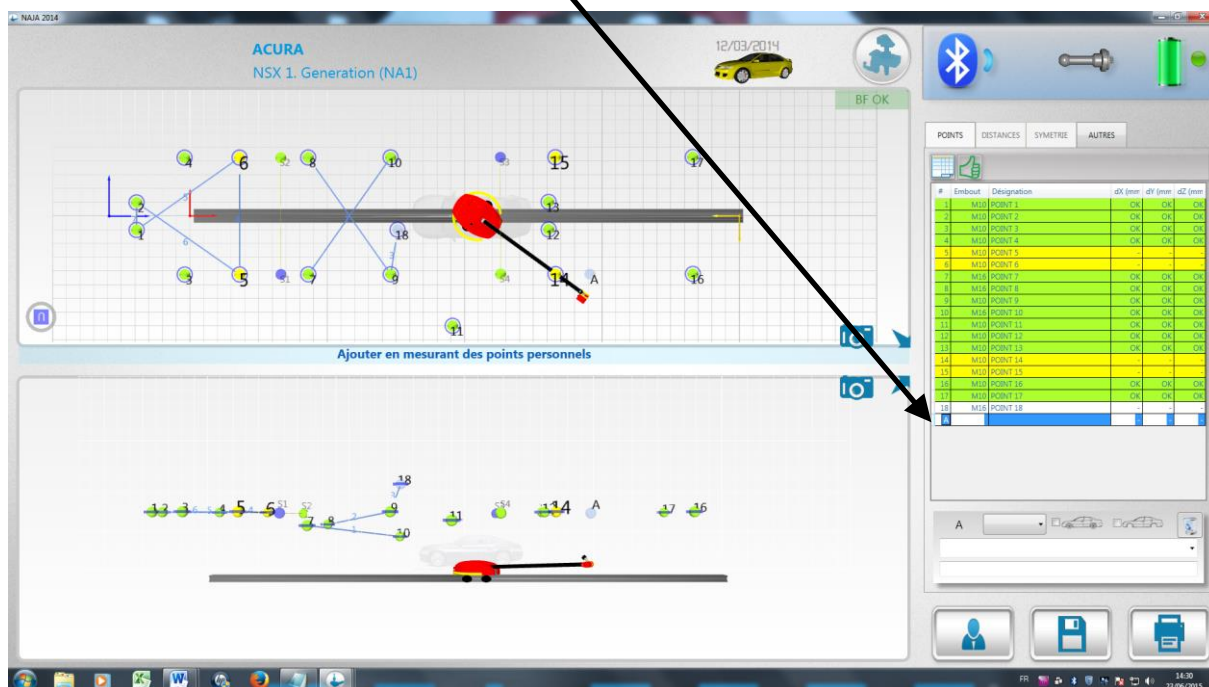
Click on icon: Customize data sheet



1) Measure the point that you want to add, here point A



2) A new line A appear on the table, Click on letter A.



3) At the bottom of the table enter information for created point.

Point can be measured WITHOUT Mechanics.

Point can be measured WITH Mechanics.

Select the socket to use on the list.

The description is essential for the list.

Complementary information.

16	M10	POINT 16	OK	OK	OK
17	M10	POINT 17	OK	OK	OK
18	M16	POINT 18	-	-	-
A			-	-	-

A

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Bluetooth icon, Wrench icon, Battery icon

POINTS DISTANCES SYMETRIE AUTRES

#	Embout	Désignation	dX (mm)	dY (mm)	dZ (mm)
1	M10	POINT 1	OK	OK	OK
2	M10	POINT 2	OK	OK	OK
3	M10	POINT 3	OK	OK	OK
4	M10	POINT 4	OK	OK	OK
5	M10	POINT 5	-	-	-
6	M10	POINT 6	-	-	-
7	M16	POINT 7	OK	OK	OK
8	M16	POINT 8	OK	OK	OK
9	M16	POINT 9	OK	OK	OK
10	M16	POINT 10	OK	OK	OK
11	M16	POINT 11	OK	OK	OK
12	M16	POINT 12	OK	OK	OK
13	M16	POINT 13	OK	OK	OK
14	M16	POINT 14	OK	OK	OK
15	M16	POINT 15	OK	OK	OK
16	M16	POINT 16	OK	OK	OK
17	M16	POINT 17	OK	OK	OK
18	M16	POINT 18	-	-	-
A			-	-	-

M6
M8
M10
M12
M14
M16
F12
F13
M18
F14
M20
F15
M22

A

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Bluetooth icon, Wrench icon, Battery icon

POINTS DISTANCES SYMETRIE AUTRES

#	Embout	Désignation	dX (mm)	dY (mm)	dZ (mm)
1	M10	POINT 1	OK	OK	OK
2	M10	POINT 2	OK	OK	OK
3	M10	POINT 3	OK	OK	OK
4	M10	POINT 4	OK	OK	OK
5	M10	POINT 5	-	-	-
6	M10	POINT 6	-	-	-
7	M16	POINT 7	OK	OK	OK
8	M16	POINT 8	OK	OK	OK
9	M10	POINT 9	OK	OK	OK

PILOTAGE GAUCHE DEVANT PALIER DE SUSPENSION ARRIERE
 PILOTAGE GAUCHE DU BAS DE CAISSE
 PILOTAGE GAUCHE DU BERCEAU ARRIERE
 PILOTAGE GAUCHE DU BERCEAU AVANT
 PILOTAGE GAUCHE DU LONGERON ARRIERE
 PILOTAGE GAUCHE DU LONGERON CENTRAL
 PILOTAGE GAUCHE DU LONGERON MILIEU
 PILOTAGE GAUCHE DU PALIER DE SUSPENSION ARRIERE
 PILOTAGE GAUCHE DU PASSAGE DE ROUE
 PILOTAGE GAUCHE DU PIED AVANT
 PILOTAGE GAUCHE DU PIED MILIEU
 PILOTAGE GAUCHE DU RAIL SUPERIEUR
 PILOTAGE GAUCHE DU TUNNEL
 PILOTAGE GAUCHE EXTREME ARRIERE
 PILOTAGE GAUCHE LONGERON INTERIEUR
PILOTAGE GAUCHE LONGERON MILIEU
 PILOTAGE GAUCHE LONGERON MILIEU DE CAISSE
 PILOTAGE GAUCHE MILIEU CAISSE
 PILOTAGE GAUCHE MILIEU DE CAISSE

A

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Bluetooth icon, Wrench icon, Battery icon

POINTS DISTANCES SYMETRIE AUTRES

#	Embout	Désignation	dX (mm)	dY (mm)	dZ (mm)
1	M10	POINT 1	OK	OK	OK
2	M10	POINT 2	OK	OK	OK
3	M10	POINT 3	OK	OK	OK
4	M10	POINT 4	OK	OK	OK
5	M10	POINT 5	-	-	-
6	M10	POINT 6	-	-	-
7	M16	POINT 7	OK	OK	OK
8	M16	POINT 8	OK	OK	OK
9	M10	POINT 9	OK	OK	OK
10	M16	POINT 10	OK	OK	OK
11	M10	POINT 11	OK	OK	OK
12	M10	POINT 12	OK	OK	OK
13	M10	POINT 13	OK	OK	OK
14	M10	POINT 14	-	-	-
15	M10	POINT 15	-	-	-
16	M10	POINT 16	OK	OK	OK
17	M10	POINT 17	OK	OK	OK
18	M16	POINT 18	-	-	-
A	M10	PILOTAGE GAUCHE LONGERON MS	-	-	-
B			-	-	-

A

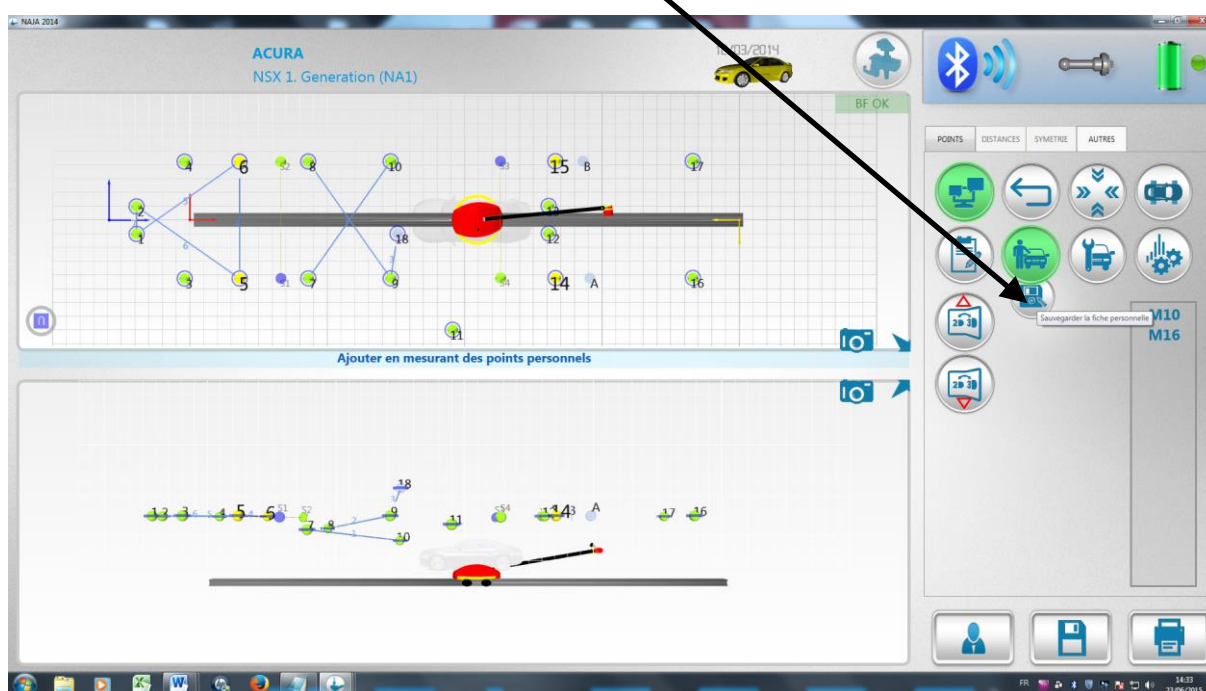
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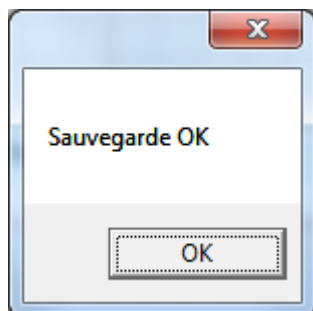


- 4) If you want to add another point, repeat the procedure from step 1.
In the example below point B.



- 5) When you have added the desired number of points, click the tab OTHER.
Then SAVE customize data sheet.





6) You will find the personal data sheets, creating by clicking on this icon. Then proceed as a classical control.

