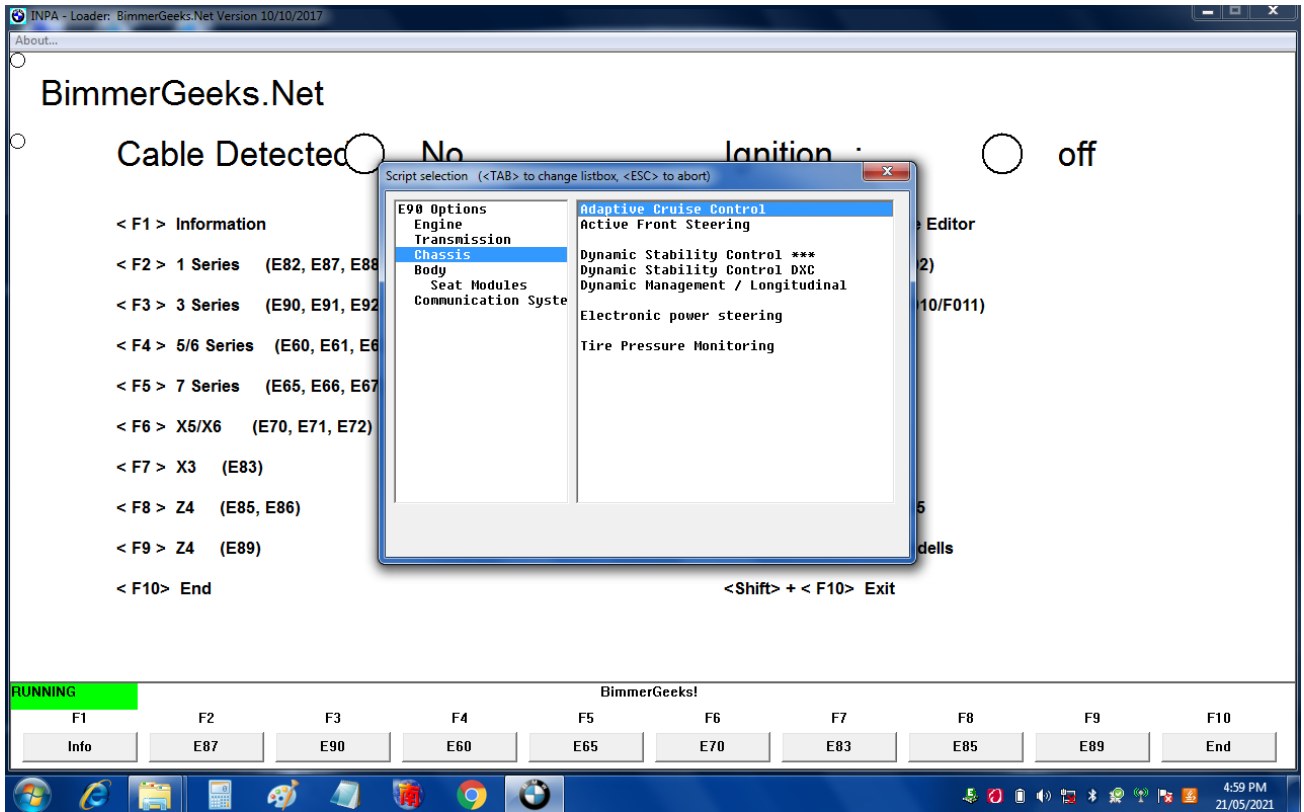


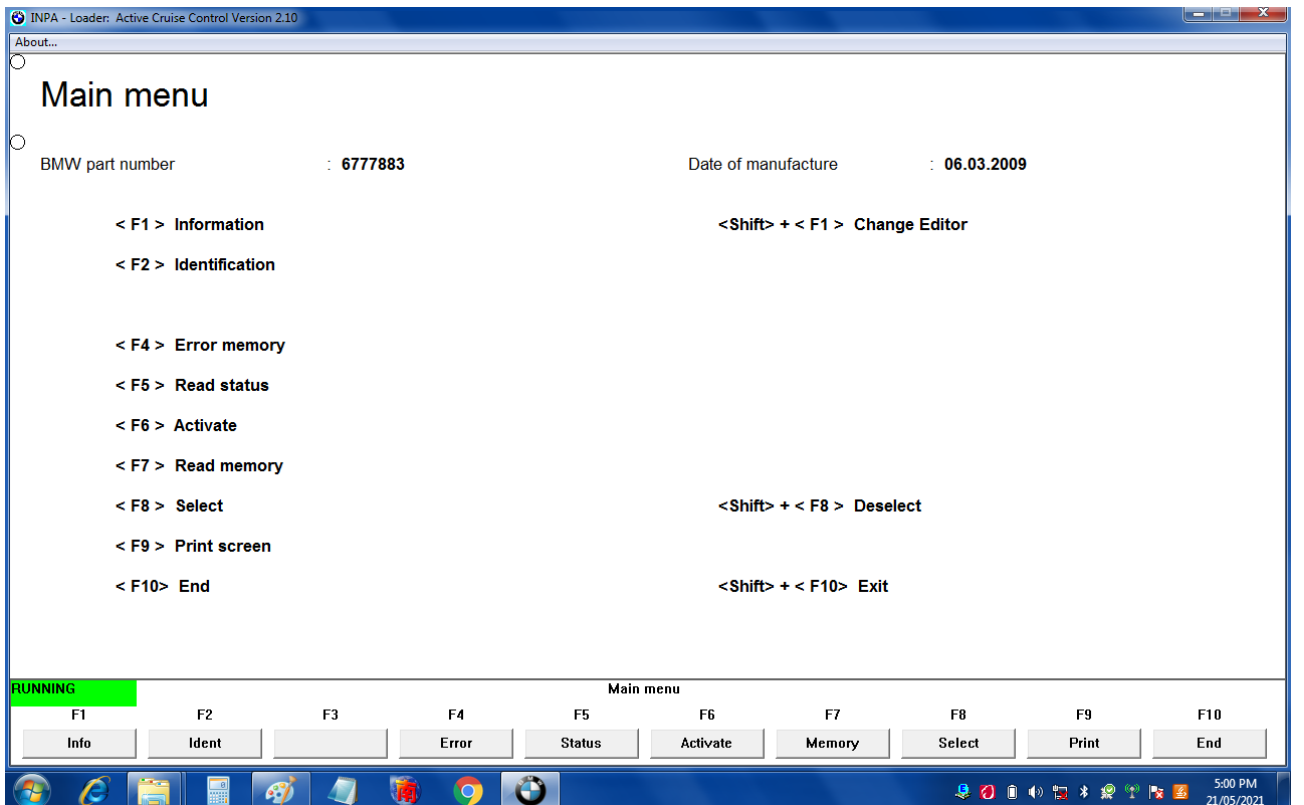
ACC sensor calibration and adjustment (INPA)

PART 1

1. Enter ACC module



2. Select F6 - Activate



3. Select F6 - Justage

The screenshot shows the 'Ansteuern' (Control) menu in the INPA software. The menu is titled 'Ansteuern' and lists the following options:

- < F1 > EOL aktivieren
- < F2 > EOL deaktivieren
- < F3 > Reset des Lenkwinkeloffsets
- < F4 > Spezialservices
- < F6 > Justage
- < F7 > Inbetriebnahme nach SG-Tausch
- < F9 > Bildschirmdruck
- < F10 > Zurück

At the bottom of the menu, there is a prompt: <Shift> + < F10 > Exit. Below the menu, a status bar shows 'RUNNING' in a green box and 'Steuern' in the center. A row of function keys (F1-F10) is displayed with their corresponding labels: F1 (EOL ein), F2 (EOL aus), F3 (LWOffReset), F4 (Spezial), F5 (empty), F6 (Justage), F7 (Inbetriebnahme), F8 (empty), F9 (Druck), and F10 (Zurück). The Windows taskbar at the bottom shows the time as 5:00 PM on 21/05/2021.

4. Select F3 – Justage

The screenshot shows the 'Justage' (Adjustment) menu in the INPA software. The menu is titled 'Justage' and lists the following options:

- < F1 > Spiegel einstellen
- < F2 > Nachmessung
- < F3 > Justage
- < F9 > Bildschirmdruck
- < F10 > Zurück

At the bottom of the menu, there is a prompt: <Shift> + < F10 > Exit. Below the menu, a status bar shows 'RUNNING' in a green box and 'Justage' in the center. A row of function keys (F1-F10) is displayed with their corresponding labels: F1 (Spiegel), F2 (Nachmessung), F3 (Justage), F4 (empty), F5 (empty), F6 (empty), F7 (empty), F8 (empty), F9 (Druck), and F10 (Zurück). The Windows taskbar at the bottom shows the time as 5:01 PM on 21/05/2021.

5. Follow instruction then F1 - Next

The screenshot shows the INPA software interface for "Active Cruise Control Version 2.10". The main window displays the title "Spiegeleinstellung (Schritt 1/12)". Below the title, it says "Spiegeleinstellung:" followed by the instruction "Drive the vehicle in front of the straight edge!". There is a button "< F1 > Weiter". Below that, it says "instruction: Distance from ACC-Sensor to mirror has to be 120 cm (+/- 5cm).". At the bottom, it says "Please press < F1 >!". The bottom panel shows a "STOPPED" status and a "mirror adjustment" section with buttons for F1 (Next), F2 (Repeat), F3 (Repeat left), F4 (Repeat right), F5, F6, F7, F8 (Actualise), F9 (Druck), and F10 (Zurück). The Windows taskbar at the bottom shows the time as 5:01 PM on 21/05/2021.

6. F1 - Next

The screenshot shows the INPA software interface for "Active Cruise Control Version 2.10". The main window displays the title "Spiegeleinstellung (Schritt 2/12)". Below the title, it says "Spiegeleinstellung:" followed by the instruction "quick clamp with laser on wheel rear left fix and adjust!". There is a button "< F1 > Weiter". Below that, it says "instruction: Adjust the gauge up to the mark of the wheel hub (rear left) and set beside the wheel hub (front left). Adjust laser on gauge.". At the bottom, it says "Please press < F1 >!". The bottom panel shows a "STOPPED" status and a "mirror adjustment" section with buttons for F1 (Next), F2 (Repeat), F3 (Repeat left), F4 (Repeat right), F5, F6, F7, F8 (Actualise), F9 (Druck), and F10 (Zurück). The Windows taskbar at the bottom shows the time as 5:02 PM on 21/05/2021.

7. Mirror 90deg to car then F1 - Next

The screenshot shows the INPA software interface for step 3 of mirror adjustment. The window title is "INPA - Loader: Active Cruise Control Version 2.10". The main content area displays "Spiegeleinstellung (Schritt 3/12)". Below this, it says "Spiegeleinstellung:" followed by the instruction "Set mirror in laser beam and adjust horizontally!". A prompt "< F1 > Weiter" is shown. An "instruction:" section provides details: "Tip the mirror to the center position and set it in the laser beam on the rail. Adjust the angle of the mirror at the LATERAL SCALE so the the laser is reflectet at the vertical line!". A final prompt "Please press < F1 >!" is at the bottom. The status bar at the bottom left shows "STOPPED" in a yellow box. The function key bar includes F1 (Next), F2 (Repeat), F3 (Repeat left), F4 (Repeat right), F5, F6, F7, F8 (Actualise), F9 (Druck), and F10 (Zurück). The Windows taskbar at the bottom shows the system clock as 5:03 PM on 21/05/2021.

8. Keyin factory example 1st angle Lateral Scale value 4.2 then F1 - Next

The screenshot shows the INPA software interface for step 4 of mirror adjustment. The window title is "INPA - Loader: Active Cruise Control Version 2.10". The main content area displays "Spiegeleinstellung (Schritt 4/12)". Below this, it says "Spiegeleinstellung:" followed by the instruction "1st angle LATERAL SCALE enter (Laser at wheel rear)". A prompt "< F1 > Weiter" is shown. An "instruction:" section provides details: "Please Read off the value at the LATERAL SCALE and enter, notice the sign. Enter the decimal value with a point (e.g. '4.2')". A final prompt "Please enter value!" is at the bottom. A modal dialog box is open in the center, titled "1st angle SLATERAL SCALE (Laser at wheel rear right):". It contains the text "Read off the value at LATERAL SCALE and enter" and a text input field with the value "4.2". There are "OK" and "Cancel" buttons. The status bar at the bottom left shows "RUNNING" in a green box. The function key bar includes F1 (Next), F2 (Repeat), F3 (Repeat left), F4 (Repeat right), F5, F6, F7, F8 (Actualise), F9 (Druck), and F10 (Zurück). The Windows taskbar at the bottom shows the system clock as 5:03 PM on 21/05/2021.

9. Keyin factory example 1st angle Upper Scale 1.3 then F1 - Next

INPA - Loader: Active Cruise Control Version 2.10

About...

Spiegeleinstellung (Schritt 6/12)

Spiegeleinstellung:

1st angle UPPER SCALE (Laser at wheel rear left)

enter (Laser at wheel rear left)

< F1 > Weiter

instruction: Read off the value at the UPPER SCALE (knurled head screw) and enter. Enter the decimal value with a point (e.g. '1.3').

Please enter value!

1st angle UPPER SCALE (Laser at wheel rear left):

Read off the value at the UPPER SCALE (knurled head screw) and enter!

OK Cancel

RUNNING mirror adjustment

F1 Next F2 Repeat F3 Repeat left F4 Repeat right F5 F6 F7 F8 Actualise F9 Druck F10 Zurück

5:04 PM 21/05/2021

10. Keyin 2nd angle value

INPA - Loader: Active Cruise Control Version 2.10

About...

Spiegeleinstellung (Schritt 9/12)

Spiegeleinstellung:

2nd angle LATERAL SCALE (Laser at wheel rear right)

enter (Laser at wheel rear right)

< F1 > Weiter

instruction: Please Read off the value at the LATERAL SCALE and enter, notice the sign. Enter the decimal value with a point (e.g. '4.2').

Please enter value and press < F1 > !

2nd angle LATERAL SCALE (Laser at wheel rear right):

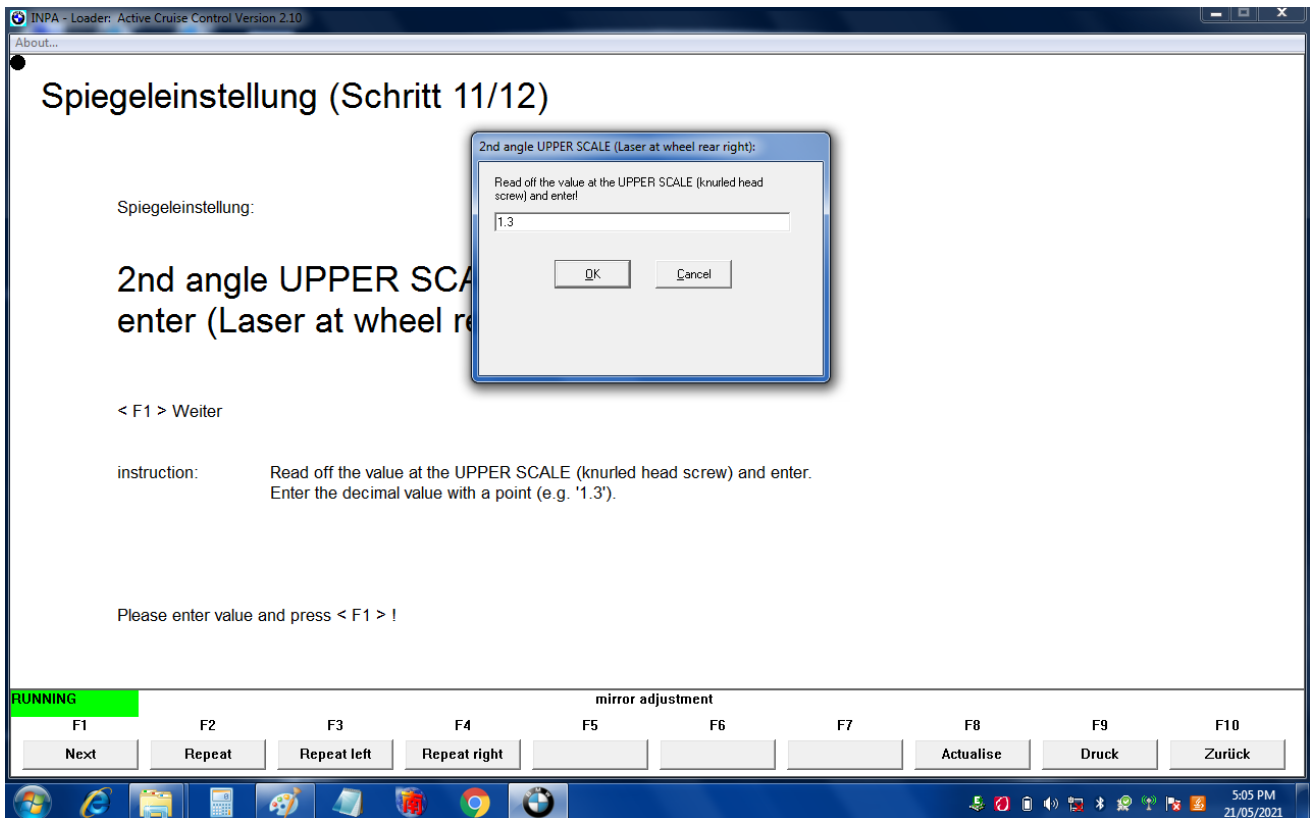
Read off the value at LATERAL SCALE and enter!

OK Cancel

RUNNING mirror adjustment

F1 Next F2 Repeat F3 Repeat left F4 Repeat right F5 F6 F7 F8 Actualise F9 Druck F10 Zurück

5:05 PM 21/05/2021

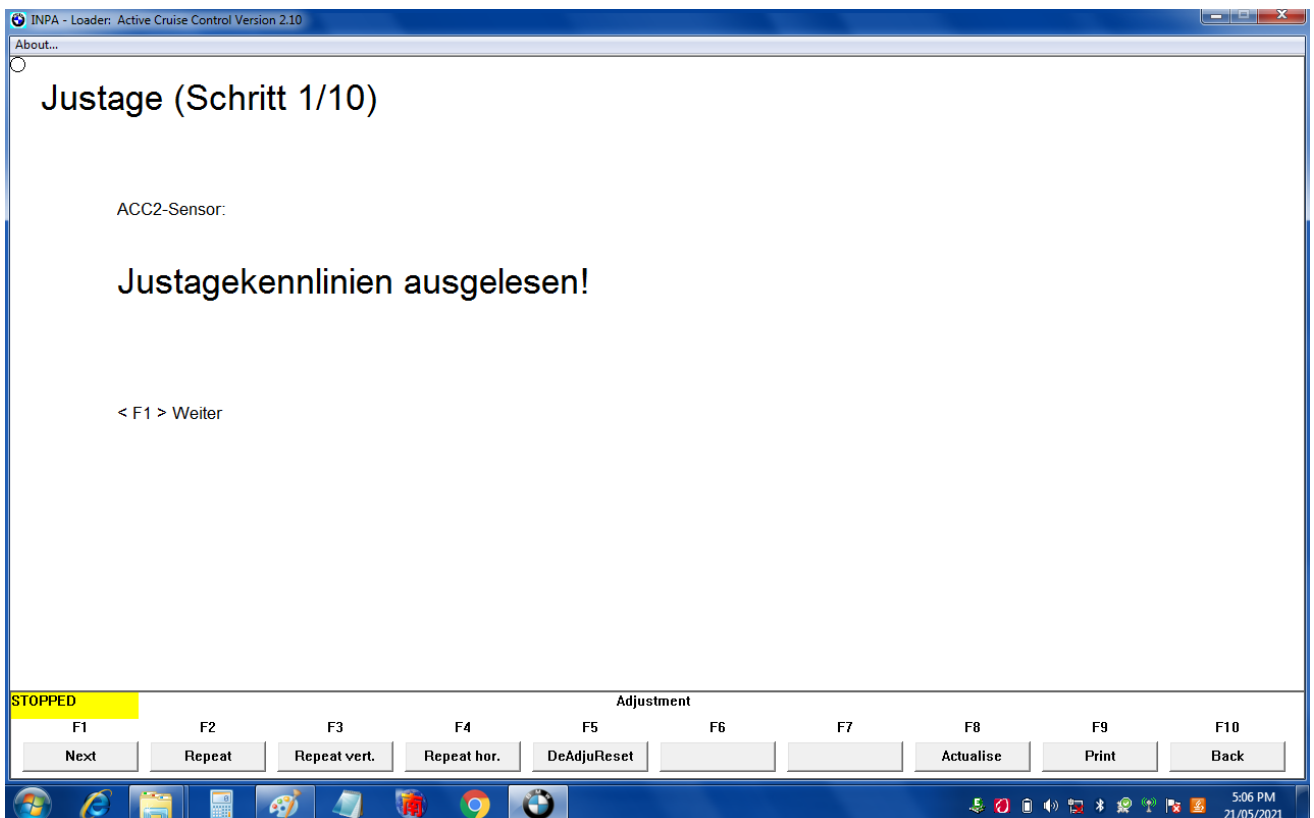


F1 – Next

PART 2

The precondition is all the sensor screws and mounting must be adjusted to spec.
Contd..

1. F1 - Next



2. Follow instruction then F1 - Next

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 2/10)

Spiegeleinstellung:

Spiegel oben vom Sensor weg positionieren!

< F1 > Weiter

instruction: Position the mirror on the rail in front of the ACC-Sensor and upend the mirror away above from the vehicle.

Please exit first the measurement range and then press < F1 >!

STOPPED Adjustment

F1 Next F2 Repeat F3 Repeat vert. F4 Repeat hor. F5 DeAdjuReset F6 F7 F8 Actualise F9 Print F10 Back

5:06 PM 21/05/2021

1st distance measured.

If 3 readings L-M-R not close to each other (+/-100), adjust mirror angle (first) or sensor screw then F2 - Repeat

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 3/10)

Spiegel oben vom Sensor weg positioniert:

Amplituden eingelesen!

< F1 > Weiter

Amplitudes L: 7115, M: 5742, R: 4369

Please press < F1 >!

STOPPED Adjustment

F1 Next F2 Repeat F3 Repeat vert. F4 Repeat hor. F5 DeAdjuReset F6 F7 F8 Actualise F9 Print F10 Back

5:07 PM 21/05/2021

3. Until below ... then F1 - Next

The screenshot shows the INPA - Loader: Active Cruise Control Version 2.10 software interface. The main window displays the following text:

Justage (Schritt 3/10)

Spiegel oben vom Sensor weg positioniert:

Amplituden eingelesen!

< F1 > Weiter

Amplitudes L: 5004, M: 5060, R: 5116

Please press < F1 >!

The interface includes a status bar at the bottom with a yellow "STOPPED" indicator and a row of function keys labeled F1 through F10. The F1 key is labeled "Next". The F2 key is labeled "Repeat". The F3 key is labeled "Repeat vert.". The F4 key is labeled "Repeat hor.". The F5 key is labeled "DeAdjuReset". The F6 key is empty. The F7 key is empty. The F8 key is labeled "Actualise". The F9 key is labeled "Print". The F10 key is labeled "Back".

4. F1 - Next

The screenshot shows the INPA - Loader: Active Cruise Control Version 2.10 software interface. The main window displays the following text:

Justage (Schritt 4/10)

Spiegeleinstellung:

Spiegel oben zum Sensor hin positionieren!

< F1 > Weiter

instruction: Upend the mirror above to the vehicle now!

Please exit first the measurement range and then press < F1 >!

The interface includes a status bar at the bottom with a yellow "STOPPED" indicator and a row of function keys labeled F1 through F10. The F1 key is labeled "Next". The F2 key is labeled "Repeat". The F3 key is labeled "Repeat vert.". The F4 key is labeled "Repeat hor.". The F5 key is labeled "DeAdjuReset". The F6 key is empty. The F7 key is empty. The F8 key is labeled "Actualise". The F9 key is labeled "Print". The F10 key is labeled "Back".

5. Measure again..

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 5/10)

Spiegel oben zum Sensor hin positioniert:

Amplituden eingelesen!

< F1 > Weiter

Amplitudes L: 5002, M: 5057, R: 5113

Please press < F1 >!

STOPPED Adjustment

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Next	Repeat	Repeat vert.	Repeat hor.	DeAdjuReset			Actualise	Print	Back

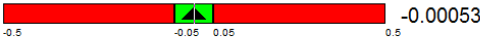
Windows taskbar: 5:17 PM 21/05/2021

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 6/10)

vertikaler Dejustagewinkel in Grad:



-0.5 -0.05 0.05 0.5 -0.00053

vertikale Justage i.O.

Please press < F1 >!

STOPPED Adjustment

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Next	Repeat	Repeat vert.	Repeat hor.	DeAdjuReset			Actualise	Print	Back

Windows taskbar: 5:18 PM 21/05/2021

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 7/10)

Spiegeleinstellung:

Spiegel in Mittenstellung positionieren!

< F1 > Weiter

instruction: Upend the mirror in the middle position!

Please exit first the measurement range and then press < F1 >!

STOPPED Adjustment

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Next	Repeat	Repeat vert.	Repeat hor.	DeAdjuReset			Actualise	Print	Back

5:18 PM 21/05/2021

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 8/10)

Spiegel in Mittenstellung positioniert:

Amplituden eingelesen!

< F1 > Weiter

Amplitudes L: 4997, M: 5053, R: 5109

Please press < F1 >!

STOPPED Adjustment

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Next	Repeat	Repeat vert.	Repeat hor.	DeAdjuReset			Actualise	Print	Back

5:18 PM 21/05/2021

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 9/10)

horizontaler Dejustagewinkel in Grad:

-0.5 -0.05 0.05 0.5 -0.03959

horizontale Justage i.O.

Please press < F1 >!

STOPPED Adjustment

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Next	Repeat	Repeat vert.	Repeat hor.	DeAdjuReset			Actualise	Print	Back

Windows taskbar: 5:19 PM 21/05/2021

INPA - Loader: Active Cruise Control Version 2.10

About...

Justage (Schritt 10/10)

vertikaler Dejustagewinkel in Grad:

-0.5 -0.05 0.05 0.5 -0.00053

vertikale Justage i.O.

horizontaler Dejustagewinkel in Grad:

-0.5 -0.05 0.05 0.5 -0.03959

horizontale Justage i.O.

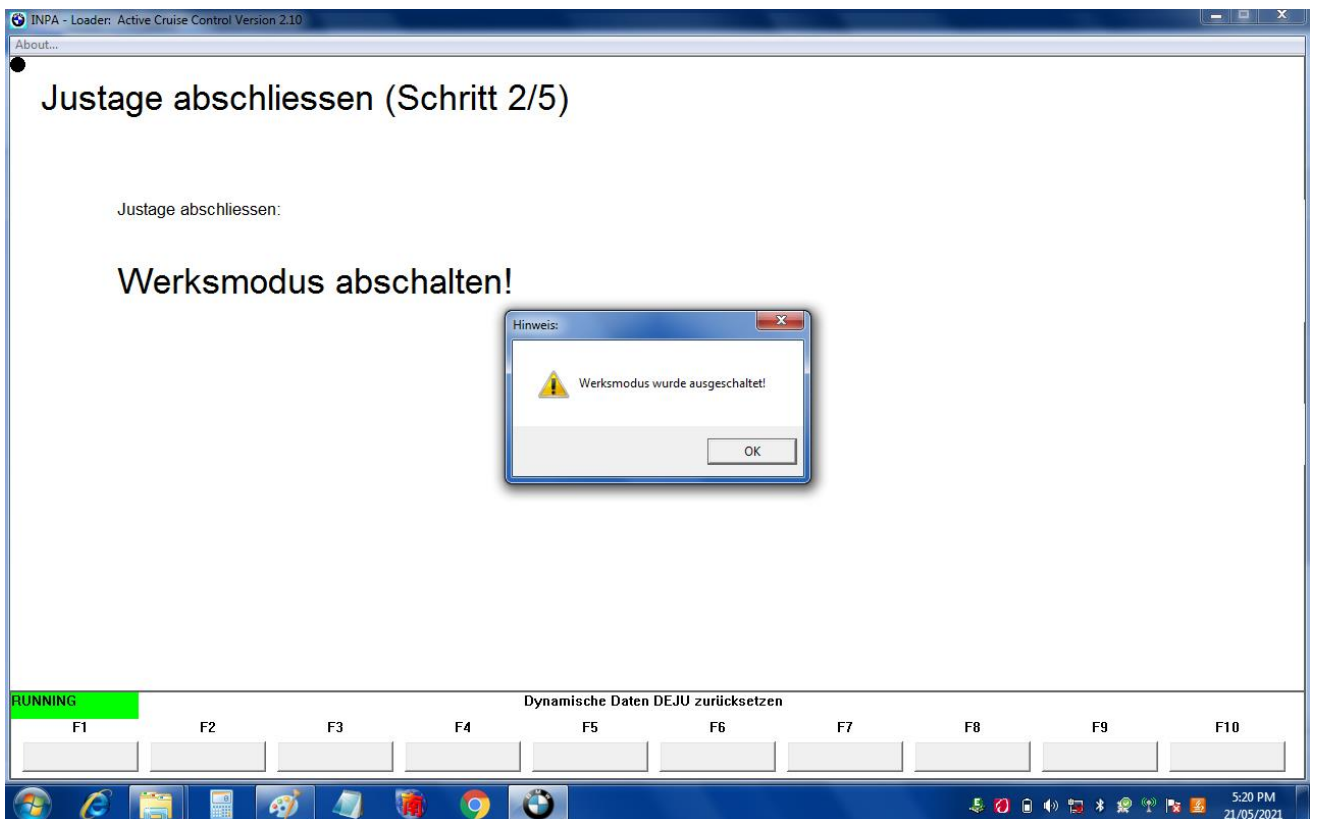
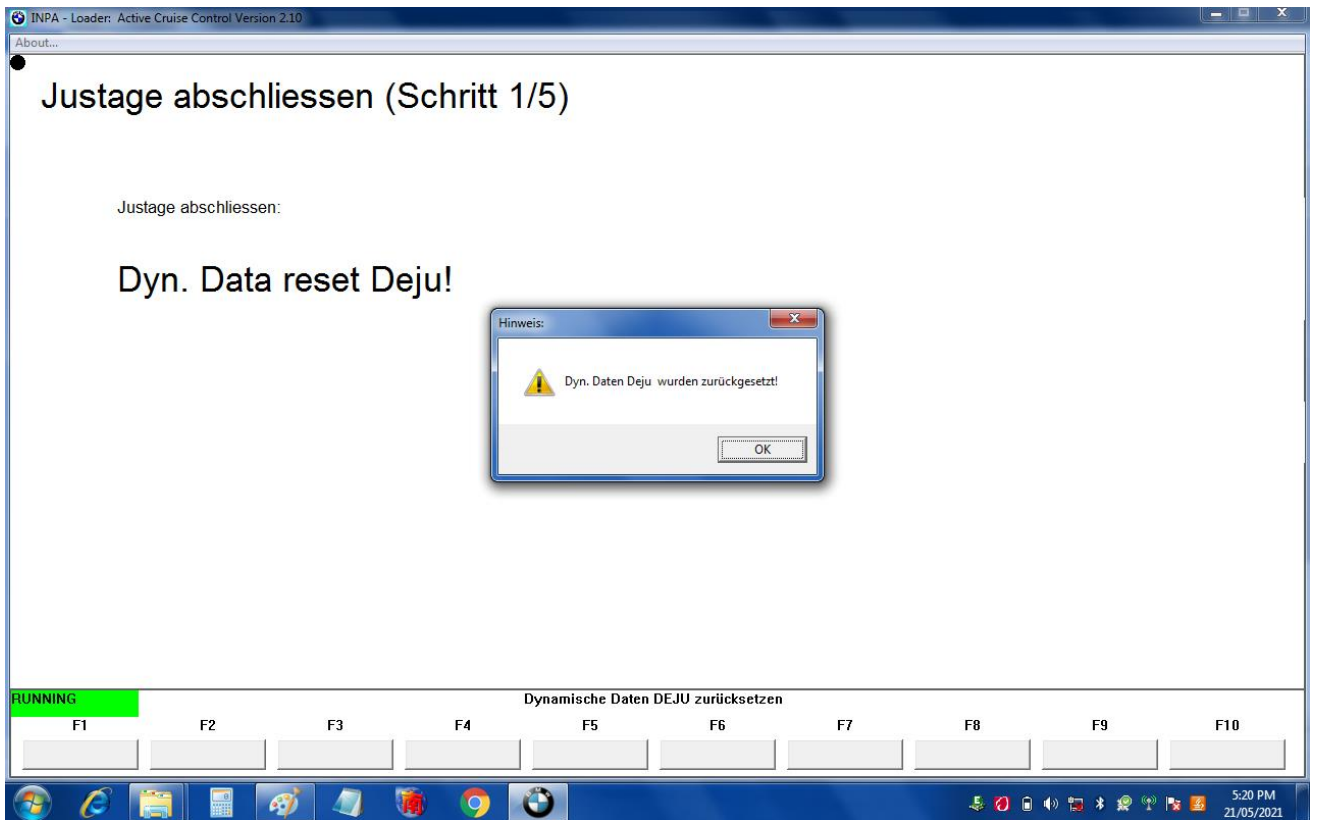
Vertical and horizontal adjustment are OK!
Please call necessarily menue < F5 > !

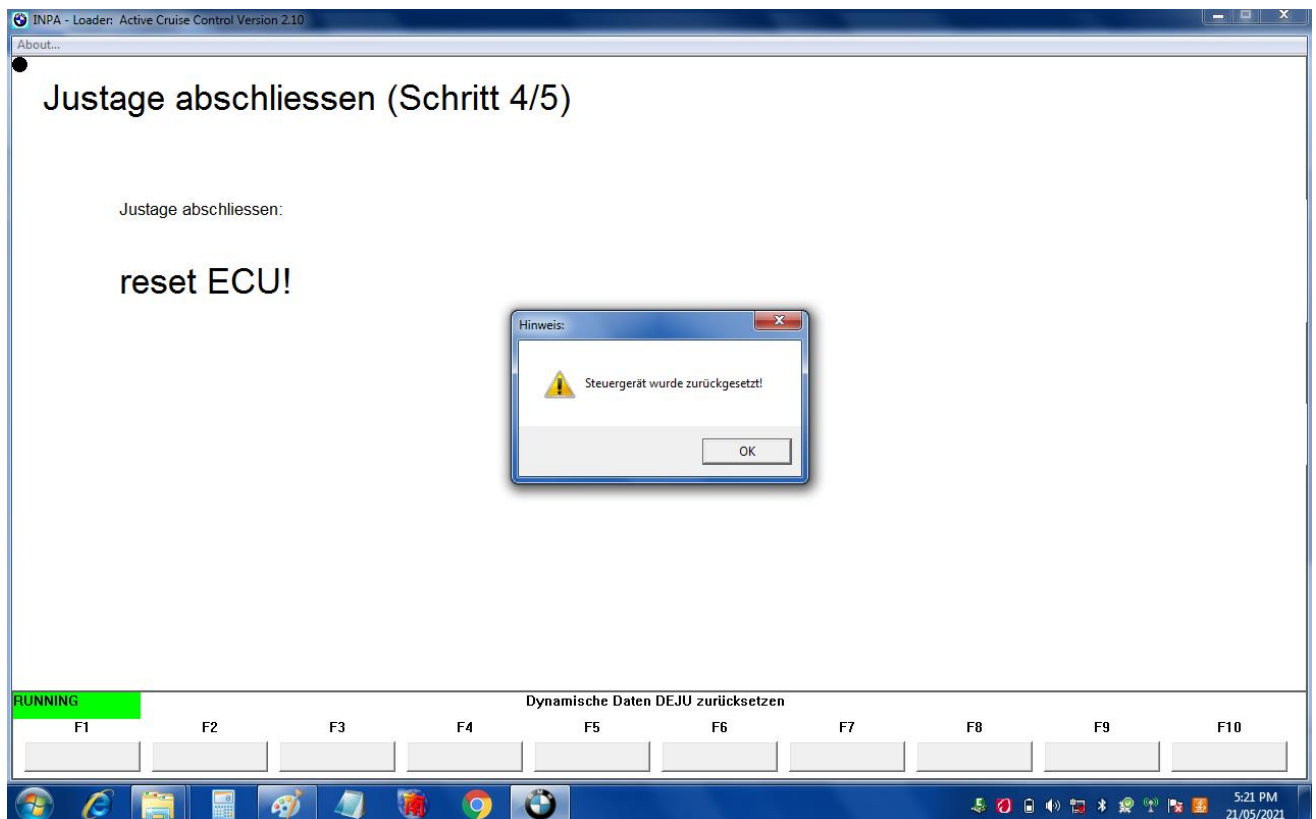
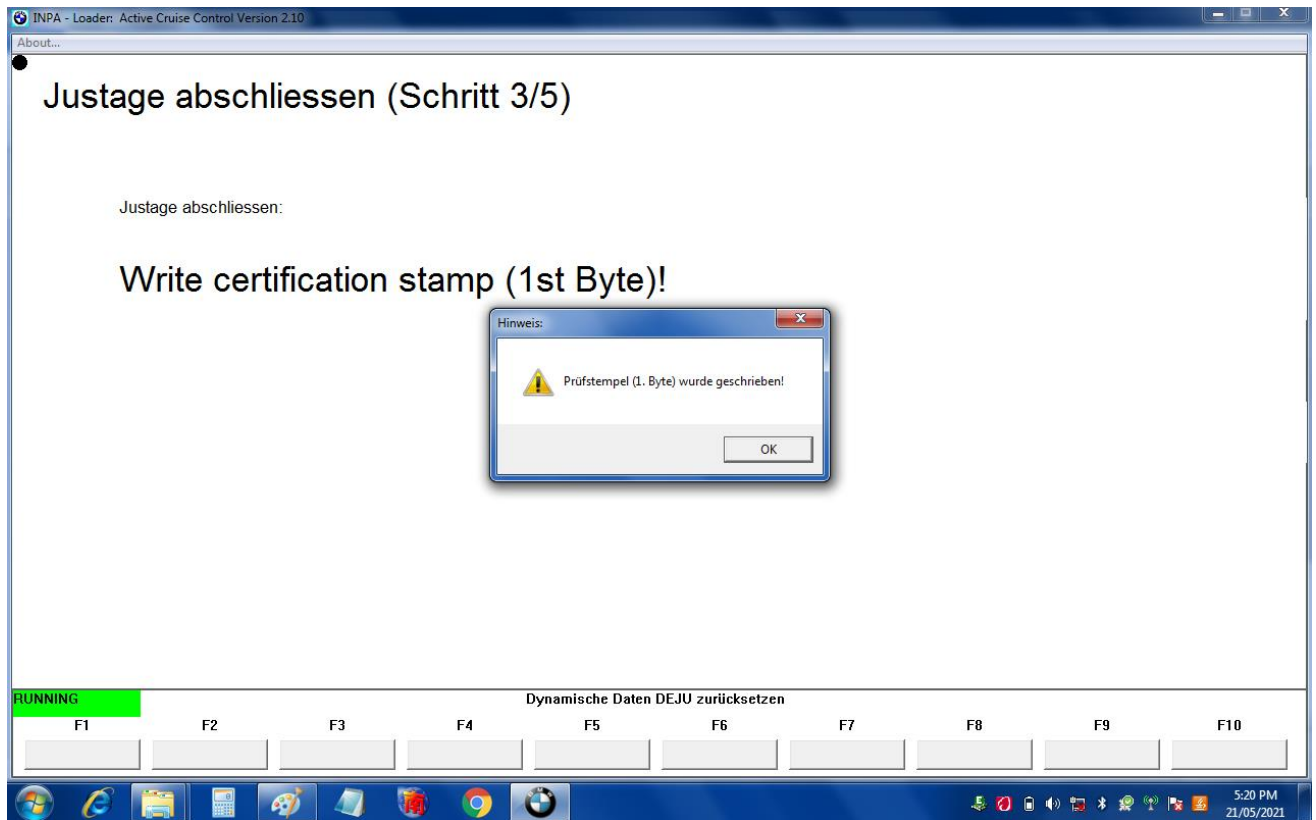
STOPPED Adjustment

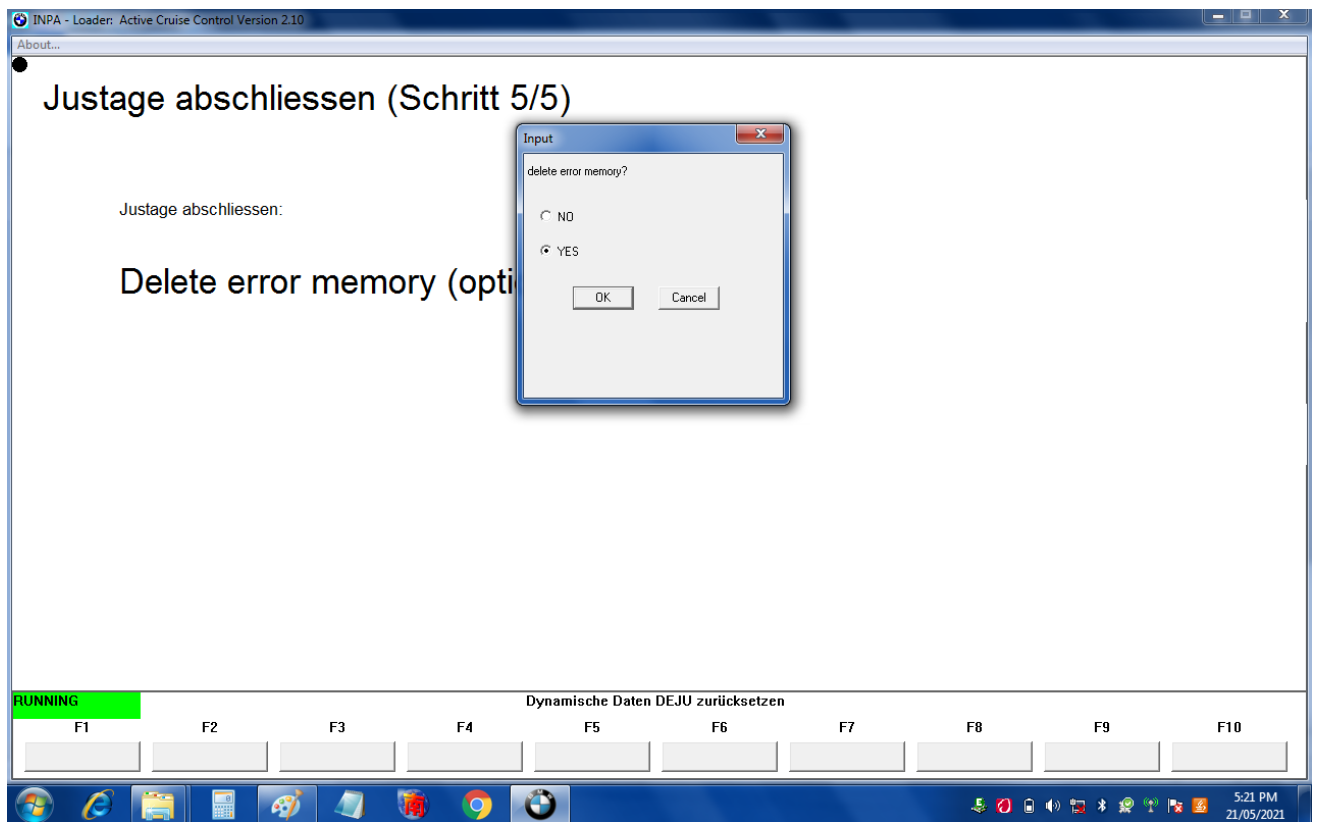
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
Next	Repeat	Repeat vert.	Repeat hor.	DeAdjuReset			Actualise	Print	Back

Windows taskbar: 5:19 PM 21/05/2021

Remember to F5 - save all the setting !!







Done !!!