

Trade Show

2014 TAIPEI AMPA

April 9 - April 12, 2014
TWTC Nangang Exhibition Center, Taipei, Taiwan
Booth Number: M3-07

TAPA 2014

April 28 - May 1, 2014
BITEC - Bangkok Int'l Trade & Exhibition Center, Thailand
Booth Number: Hall 101, D7

2014 MechanEx MANCHESTER

May 20 - May 21, 2014
MECHANEX Event City, Manchester, UK
Booth Number: K20

PHILAUTO 2014

May 29 - May 31, 2014
SMX Convention Centre Manila, Philippines
Booth Number: Coming soon

2014 Automechanika Dubai

June 3 - June 5, 2014
Dubai International Convention and Exhibition Centre
Booth Number: Coming soon

We look forward to greeting you there!

Latest Versions (March, 2014)

Software	Version	Language	Release date
BMW DIAG E SERIES	2013.11/2012.12SP2	USEN/TWCH/JPJP/KRKR	2014/1/13
BMW DIAG F SERIES	2013.11/2012.12SP2	USEN/TWCH/JPJP/KRKR	2014/1/13
BMW ENCODING DATABASE	2014.01		2014/3/10
BMW F-CIP	2014.01/2013.12	USEN/TWCH/	2014/3/10
BMW PROGRAMMING	2014.01/2013.12/2012.12SP4	USEN/TWCH	2014/3/10
CHRYSLER	2014.01	USEN/TWCH	2014/2/10
FUSO	2013.12/2012.12SP2	USEN/TWCH	2014/2/10
HOLDEN	2013.12	USEN	2014/1/23
HONDA	2013.12	USEN/TWCH/JPJP	2014/1/13

LANDROVER	2013.12	USEN/TWCH/JPJP	2014/2/10
MINI	2013.12	USEN/TWCH/JPJP/KRKR	2014/2/18
MITSUBISHI	2013.12/2012.12	USEN/TWCH/JPJP	2014/2/18
PROTON	2013.12/2012.12SP3	USEN/TWCH	2014/1/23
SAAB	2013.12	USEN/TWCH	2014/1/13
SSANGYONG	2013.12/2012.12SP1	USEN/TWCH	2014/1/23
SUBARU	2013.12SP1/2012.12SP2	USEN/TWCH/JPJP	2014/2/18
SUZUKI	2013.12/2012.12SP4/2011.12SP6	USEN/TWCH/JPJP	2014/1/13
SYSTEM	V2.06	USEN/TWCH/JPJP	2014/2/10
VOLVO	2013.12/2012.12SP2	USEN/TWCH/JPJP	2014/2/10
iSCAN-II CHRYSLER	V7.00	USEN/TWCH	2014/2/10
iSCAN-II MINI	V5.00	USEN/TWCH/JPJP/KRKR	2014/2/18
iSCAN-II MITSUBISHI	V6.00/5.03	USEN/TWCH/JPJP	2014/2/18
iSCAN-II PROTON	V6.03/5.06	USEN/TWCH	2014/1/23
iSCAN-II SAAB	V6.00	USEN/TWCH	2014/1/13
iSCAN-II SUBARU	V6.01SP1/5.01SP2	USEN/TWCH/JPJP	2014/2/18
iSCAN-II SUBARU	V6.01	USEN/TWCH/JPJP	2014/1/13
iSCAN-II SUZUKI	V6.01/5.05/4.08	USEN/TWCH/JPJP	2014/1/13

Yearly Update Project (YUP) Software

Software release monthly for:
iScan-IIwt /VeDiS-II EURO PRO YUP 2014
iScan-IIwt /VeDiS-II ASIAN PRO YUP 2014
Please get the updates from website.

Technical Guidance

BMW EHC adjustment

A - E53 EHC adjustment

(1) When to perform EHC adjustment:

1. The EHC ECU has been replaced.
2. The EHC sensor has been removed from its location to perform any repair.
3. The wire that connects to the EHC or sensor has been replaced.

(2) Prerequisites (before adjustment):

1. Park the vehicle on a level surface.
2. Start the vehicle after replace air shock absorber.
3. No heavy items that don't belong in vehicle.
4. No one should be seating in the vehicle while carrying out this procedure.

Note : There are single-axle and dual-axle air suspension for E53.

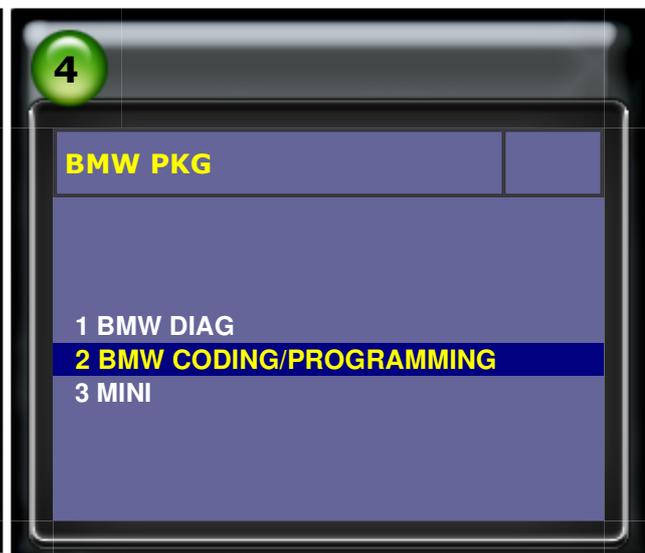
If it is a single-axle, then only rear wheels are equipped with air suspension.

For dual-axle style, then all four wheels are equipped with air suspension.

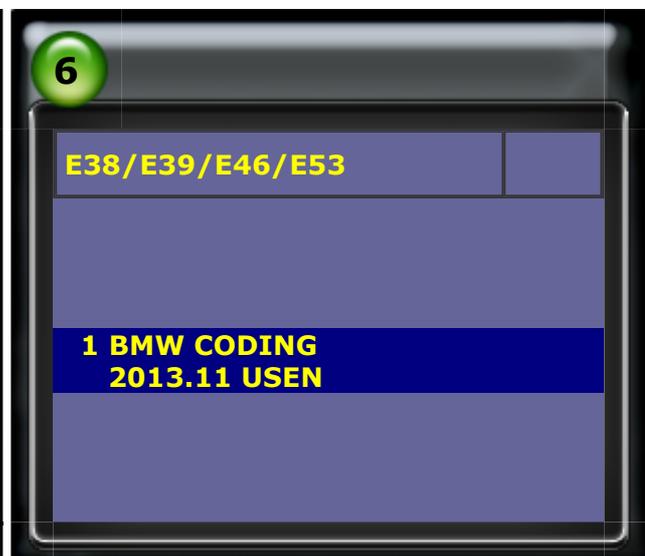
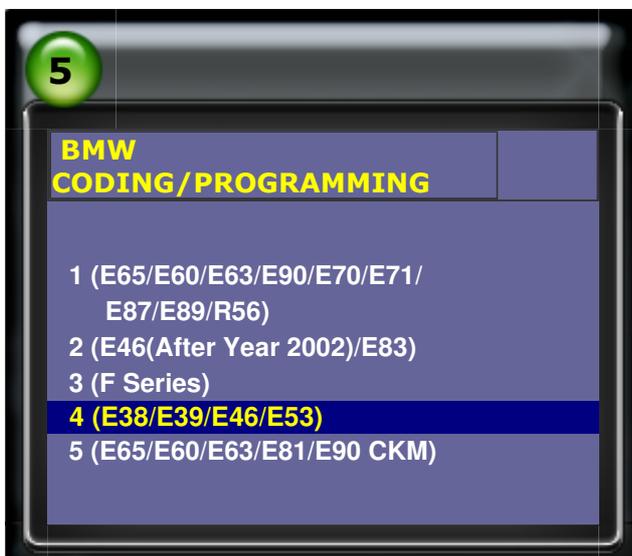
1. Select Vehicle Diagnostic -> EUROPEAN



2. Select BMW PKG → BMW CODING/PROGRAMMING



3. Select E38/E39/E46/E53



4. Select X5 EHC ADJUSTMENT (Example 1. for 1-axle)

7

FUNTIONS

- 1 "ZCS/FA CODING"
- 2 "CAR/KEY MEMORY(NEW)"
- 5 "LEW SYNC"
- 6 "X5 EHC ADJUSTMENT"**
- 7 "E65/E66 EHC ADJUSTMENT"

8

EHC HEIGHT OFFSET

An 1-axle car is detected.
If the car is not 1-axle, please exit and report to the distributor.

Press ENTER to continue.

5. Select AUTOMATIC

9

select calibration mode

- 1 MANUAL
- 2 AUTOMATIC**

10

ATTENTION

- 1. Car must be in a horizontal position.
- 2. Before doing adjustment, switch the engine on and off.

Press ENTER to continue.

6. Select X5 3.0i/3.0D/4.4i ->18 inch

11

car select

- 1 X5 3.0i/3.0D/4.4i**
- 2 X5 4.6is

12

X5 3.0i/3.0D/4.4i

- 1 17 inch
- 2 18 inch**
- 3 19 inch
- 4 20 inch

7. To confirm the measurement

13

14

EHC adjustment

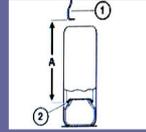
The standard height of EHC is
708 +/- 10mm

Press ENTER to continue

EHC adjustment

Measure distance from bottom
middle of rim flange to lower edge
of wheel arch.

Press ENTER to continue



8. Enter measured distance: 708mm (rear right wheel)

15

EHC adjustment

Enter measured distance of right
wheel in mm:

...mm

16

EHC adjustment

Enter measured distance of right
wheel in mm:

708mm

9. Enter measured distance: 700mm (rear left wheel)

17

EHC adjustment

Enter measured distance of left
wheel in mm:

...mm

18

EHC adjustment

Enter measured distance of left
wheel in mm:

700mm

10. Check height

19

EHC adjustment

The height is outside the required

20

Do adjustment

tolerance limit.
The adjustment must be carried out.
Please confirm the measured values.
LEFT : 700mm RIGHT : 708mm
Yes : ENTER No : EXIT

Doing adjustment.....

11. Briefly start and turn off engine. Please wait 10 seconds.

21

EHC adjustment

Adjustment is finished.
1. Briefly start and turn off engine.
2. Please wait 10 seconds.
Press ENTER to continue.

22

EHC adjustment

Any inclination is adjusted during vehicle operation.
Press ENTER to continue.

12. Select X5 EHC ADJUSTMENT (Example 2. for 2-axle)

23

FUNCTIONS

- 1 "ZCS/FA CODING"
- 2 "CAR/KEY MEMORY(NEW)"
- 5 "LEW SYNC"
- 6 "X5 EHC ADJUSTMENT"**
- 7 "E65/E66 EHC ADJUSTMENT"

24

EHC adjustment

A 2-axle car is detected. If the car is not 2-axle, please exit and report to the distributor.
[ENTER]: continue
[EXIT]: exit

13. Mode check

25

EHC adjustment

Mode: NOT SET
The above mode must not be in [SET] status, otherwise ECU will be damage when doing adjustment.
[ENTER]: Clear [SET] status and continue

26

EHC adjustment

Please run engine at idle speed, and wait 30 seconds.
[ENTER]: Above steps is finished, continue
[EXIT]: exit

[EXIT]: exit

14. Accumulator Pressure must be above 13 bar.

27

EHC adjustment

Accumulator Pressure(bar): 15.60
Compressor Temperature(°C): 42
Accumulator Pressure must be above 13 bar.
[ENTER]: Build up pressure, or continue.
[EXIT]: exit.

28

ATTENTION

1. Car must be in a horizontal position.
 2. Before doing adjustment, switch the engine on and off.
- Press ENTER to continue.

15. Select chassis

29

CHASSIS

- 1 Original BMW chassis**
- 2 Not original BMW chassis

30

Original BMW chassis

- 4 X5 4.8 is with wide wheel arch**

16. Front tire select

31

WHEEL SIZE CHOOSING

- 1 17 inch
- 2 17 inch, Sport Suspensions
- 3 18 inch**
- 4 18 inch, Sport Suspensions
- 5 19 inch
- 6 19 inch, Sport Suspensions
- 7 20 inch
- 8 20 inch, Sport Suspensions

32

EHC adjustment

- 1 FRONT AXLE**
- 2 REAR AXLE

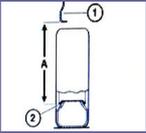
17. To confirm the measurement

33

EHC adjustment

Measure distance from bottom middle of rim flange to lower edge of wheel arch.

Press ENTER to continue



34

EHC adjustment

Enter measured distance of left wheel in mm:
...mm

18. Enter measured distance: 690mm (left wheel)

35

EHC adjustment

Enter measured distance of left wheel in mm:
690mm

36

EHC adjustment

Enter measured distance of right wheel in mm:
...mm

19. Enter measured distance: 685mm (right wheel)

37

EHC adjustment

Enter measured distance of right wheel in mm:
685mm

38

EHC adjustment

The height is outside the required tolerance limit.
The adjustment must be carried out.
Please confirm the measured values.
LEFT : 690mm RIGHT : 685mm
Yes : ENTER No : EXIT

20. Doing adjustment



39

EHC adjustment

Doing adjustment.....

40

EHC adjustment

Finished.....

Press ENTER to continue

21. Rear tire select

41

EHC adjustment

The height isn't regulated immediately after adjustment but rather loading the vehicle or while driving.

Press EXIT to exit

42

EHC adjustment

- 1 FRONT AXLE
- 2 REAR AXLE**

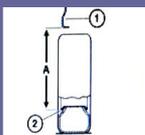
22. To confirm the measurement

43

EHC adjustment

Measure distance from bottom middle of rim flange to lower edge of wheel arch.

Press ENTER to continue



44

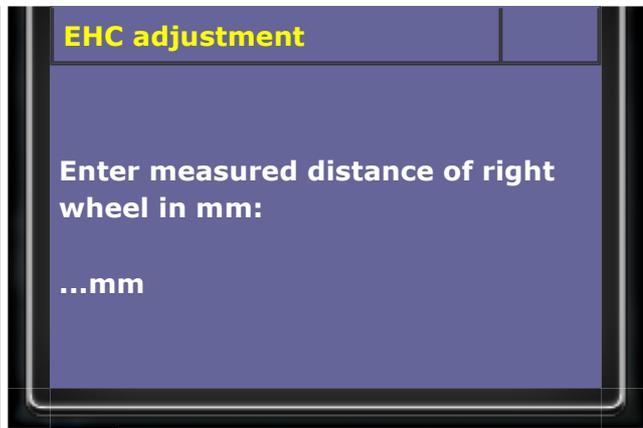
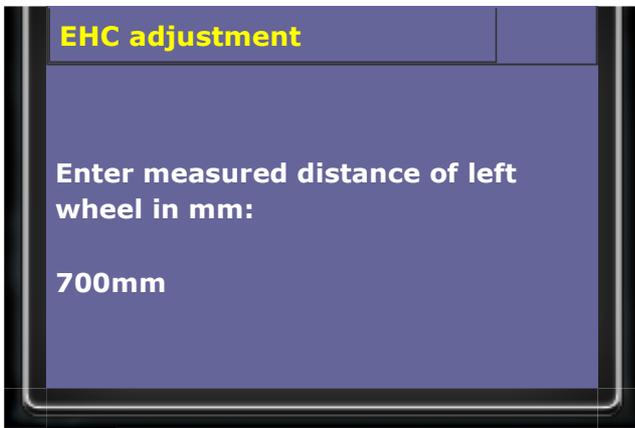
EHC adjustment

Enter measured distance of left wheel in mm:
...mm

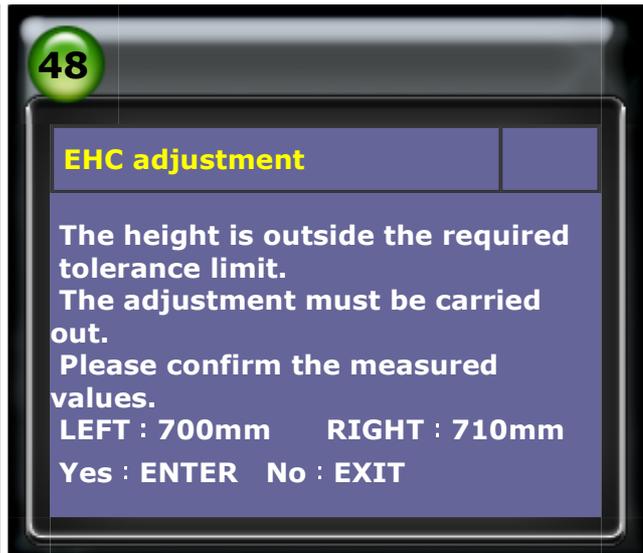
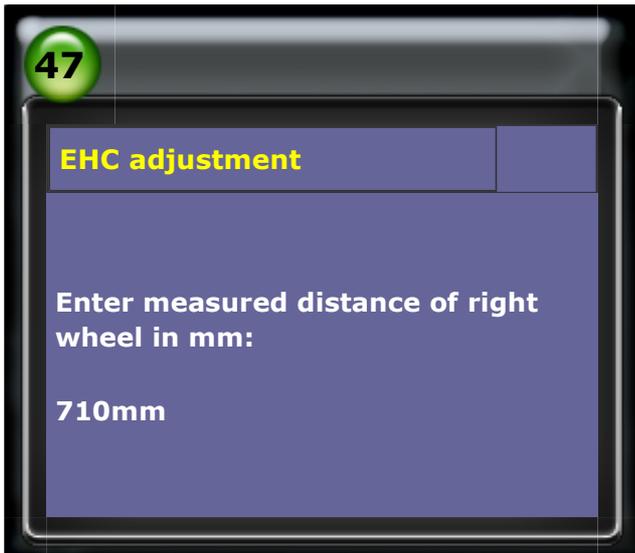
23. Enter measured distance: 700mm (left wheel)

45

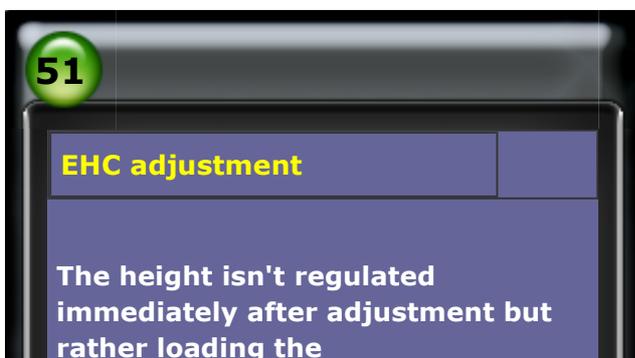
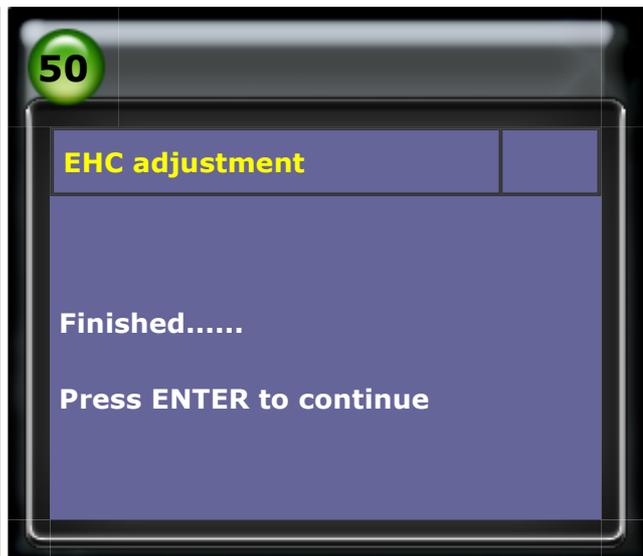
46



24. Enter measured distance: 710mm (right wheel)



25. Doing adjustment



vehicle or while driving.

Press EXIT to exit

Technical Guidance

B. E65 EHC adjustment

(1) When to perform EHC adjustment:

1. The EHC ECU has been replaced.
2. The EHC sensor has been removed from its location to perform any repair.
3. The wire that connects to the EHC or sensor has been replaced.

(2) Prerequisites (before adjustment):

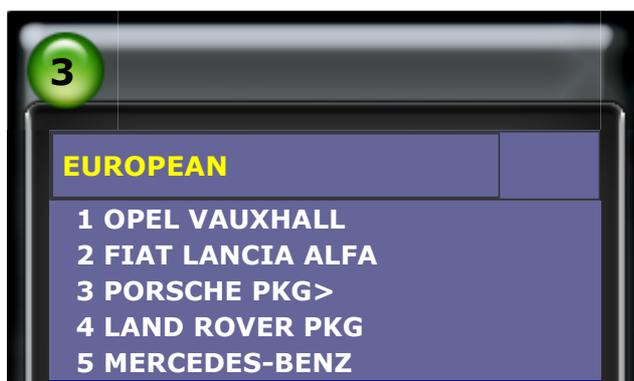
1. Park the vehicle on a level surface.
2. Start the vehicle after replace air shock absorber.
3. No heavy items that don't belong in vehicle.
4. No one should be seating in the vehicle while carrying out this procedure.

How to perform this function utilizing iScan-II wt:

1. Select Vehicle Diagnostic -> EUROPEAN



2. Select BMW PKG → BMW CODING/PROGRAMMING



6 BMW PKG

7 VW AUDI SEAT SKODA>

8 FORD (OBDII 95~)

MAZDA (OBDII 01~)

FORD 2013.07 USEN

3 MINI

3. Select E-series

5

BMW Diagnostic

1 (E Series)

2 (F Series)

6

F- series

1 BMW Diag E Series
2013.11TWCH

**2 BMW Diag E Series
2013.11USEN**

4. Select 7 series-> E65/E66/E68

7

System Selection

1 1 Series

2 3 Series

3 5 Series

4 6 Series

5 7 Series

6 8 Series

7 X Series

8 Z Series

77 Equipment Function Setup

88 Service Reset

100 Flat Tire Monitor

101 DME-EWS/CAS sync

8

7 series

1 E32

2 E38

3 E65/E66/E68

5. Select Control Unit → Chassis

9

7 series E65

1 Short test

2 Control unit

10

Control unit

1 Drive

2 Chassis

3 Body

4 Comm. & Info.

6. Select EHC (ride height control)

11

Chassis

- 1 DSC (anti lock brake)
- 2 EHC (ride height control)**
- 3 CIM (chassis integration module)
- 4 EMF (Parking brake)
- 5 ARS (Dynamic Drive)

12

Identification

EHC

Part number	6766280
Hardware number	13
Message catalog	0.9.250
Diagnosis index	688
Coding index	04
Variant index	16720
Date	2003-03-26
Supplier	Webco
Function software	6.33.0
Operating software	3.2.1

Press ENTER to continue

7. Select EHC HEIGHT OFFSET

13

EHC

- 1 Identification
- 2 Read Fault Code
- 3 Clear Fault Code
- 4 Data Stream
- 5 Activation
- 6 EHC HEIGHT OFFSET**

14

ATTENTION

1. Car must be in a horizontal position.
2. Before doing adjustment, switch the engine on and off.

Press ENTER to continue

8. Select BMW-approved suspension system and appropriate wheel size

15

SUSPENSION

- 1 BMW-approved suspension system**
- 2 non BMW-approved suspension

16

WHEEL SELECTION

- 1 17 inch
- 2 17 inch, with sport suspension
- 3 18 inch**
- 4 18 inch, with sport suspension
- 5 19 inch

system
3 EXIT

6 19 inch, with sport suspension
7 20 inch
8 20 inch, with sport suspension
9 21 inch
10 21 inch, with sport suspension

9. Measure distance from bottom middle of rim flange to lower edge of wheel arch.

17

EHC ADJUSTMENT

Measure distance from bottom middle of rim flange to lower edge of wheel arch.

Press ENTER to continue



Measure the distance between lowest point of the rim and the nearest vertical point of the shroud.

10. Enter measured distance: 675mm (left wheel)

18

EHC ADJUSTMENT

Enter measured distance of left wheel (mm)

...

19

EHC ADJUSTMENT

Enter measured distance of left wheel (mm)

675

11. Enter measured distance: 649mm (right wheel)

20

EHC ADJUSTMENT

Enter measured distance of right wheel (mm)

...

21

EHC ADJUSTMENT

Enter measured distance of right wheel (mm)

12. Confirm the height value entered.

22

EHC ADJUSTMENT

The difference between the normal value and the measured values is :

LEFT: 32 mm

RIGHT: 6 mm

Press ENTER to continue

23

EHC ADJUSTMENT

The height is outside the required tolerance limit. The adjustment must be carried out. Please confirm

the measured values.

LEFT: 675 mm

RIGHT: 649 mm

Yes: ENTER

No: EXIT

**13. Adjustment is finished. Please briefly start and turn off engine.
Please wait for 10 seconds.**

24

EHC ADJUSTMENT

Doing adjustment

25

EHC ADJUSTMENT

Adjustment is finished.

1. Briefly start and turn off engine.

2. Please wait 10 seconds.

Press ENTER to continue

14. EHC Adjustment is finished. The tire failure indicator can now be initialized.

26

EHC ADJUSTMENT

Any inclination is adjusted during vehicle operation.

Press ENTER to continue

27

EHC ADJUSTMENT

The tire failure indicator can now be initialized.

Press EXIT to exit.

Technical Guidance

C. F01 EHC adjustment

(1) System briefing:

On the F01 chassis (7 series 2009 and newer), the EHC sensor(s) are connected to the ICM (Integrated Chassis Management) ECU. Depending on the different vehicle specs, it can be up to 4 EHC sensors and all sensors transmit signal to ICM ECU.

(2) When to perform EHC adjustment:

1. The EHC ECU has been replaced.
2. The ICM ECU has been replaced
3. THE ECU Sensor has been replaced
4. The wire that connects to the EHC or sensor has been replaced.

(3) Prerequisites (before adjustment):

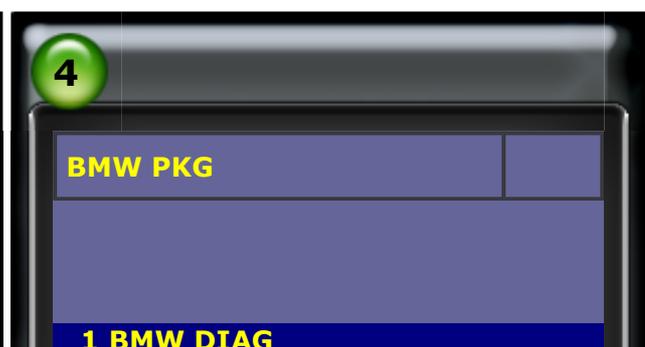
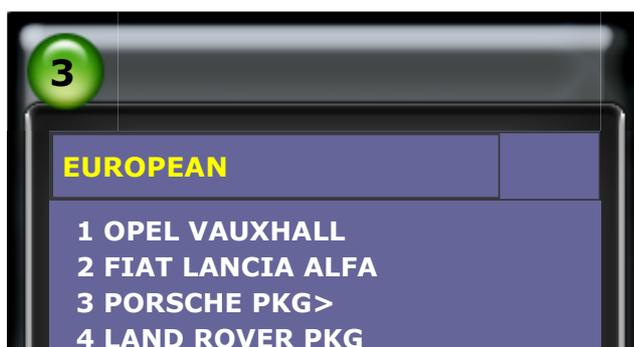
1. Turn off Engine, switch ignition on
2. Park the vehicle on a level surface with the wheels in the straight ahead position.

How to perform this function utilizing iScan-II wt:

1. Select Vehicle Diagnostic -> EUROPEAN



2. Select BMW PKG → BMW CODING/PROGRAMMING



5 MERCEDES-BENZ

6 BMW PKG

7 VW AUDI SEAT SKODA>

8 FORD (OBDII 95~)

MAZDA (OBDII 01~)

FORD 2013.07 USEN

2 BMW CODING/PROGRAMMING

3 MINI

3. Select F-series

5

BMW Diagnostic

1 (E Series)

2 (F Series)

6

F- series

1 BMW Diag F Series

2013.11TWCH

2 BMW Diag F Series

2013.11USEN

4. Select 77 Equipment Function Setup->Chassis

7

System Selection (F-Series)

1 1 Series

2 3 Series

3 5 Series

4 6 Series

5 7 Series

6 X Series

77 Equipment Function Setup

88 Service Reset

8

Control unit

1 Drive

2 Chassis

3 Body

4 Communication & Information

5 Air Conditioning

5. Select Ride height adjustment (EHC)

9

Chassis

1 AFS initialization/adjustment

2 Parking brake

3 Brake bleed routine

4 Dynamic drive (ARS system)
service functions

5 Electric steering-column
adjustment

10

EHC

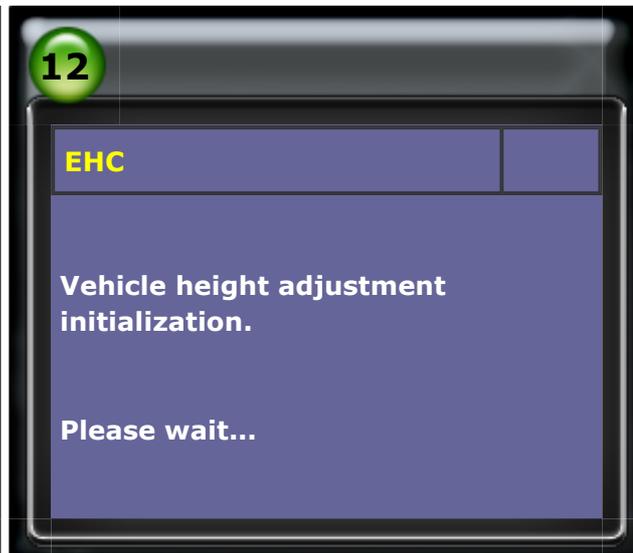
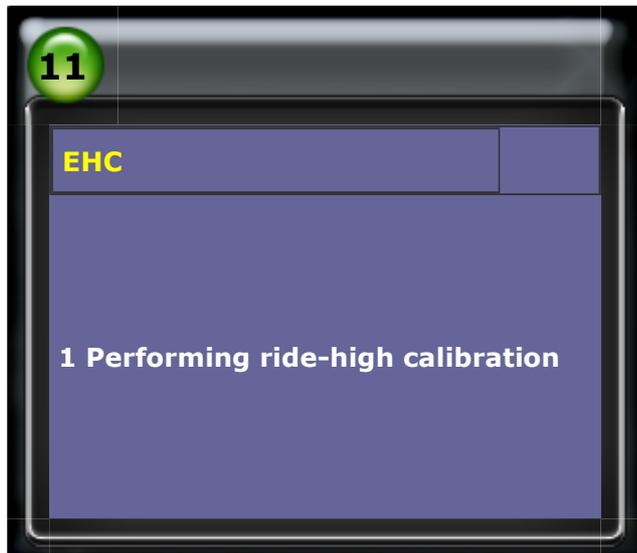
1 F01/F02/F03/F04

2 F07

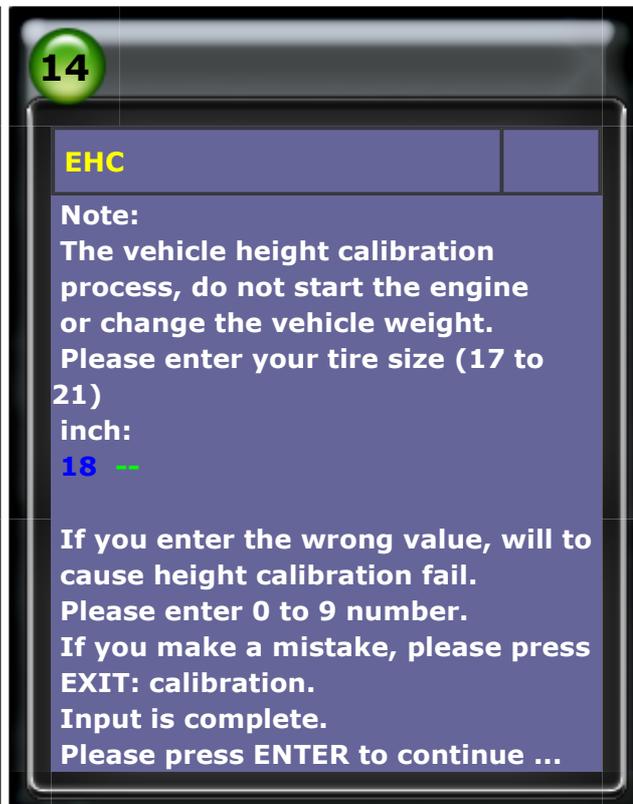
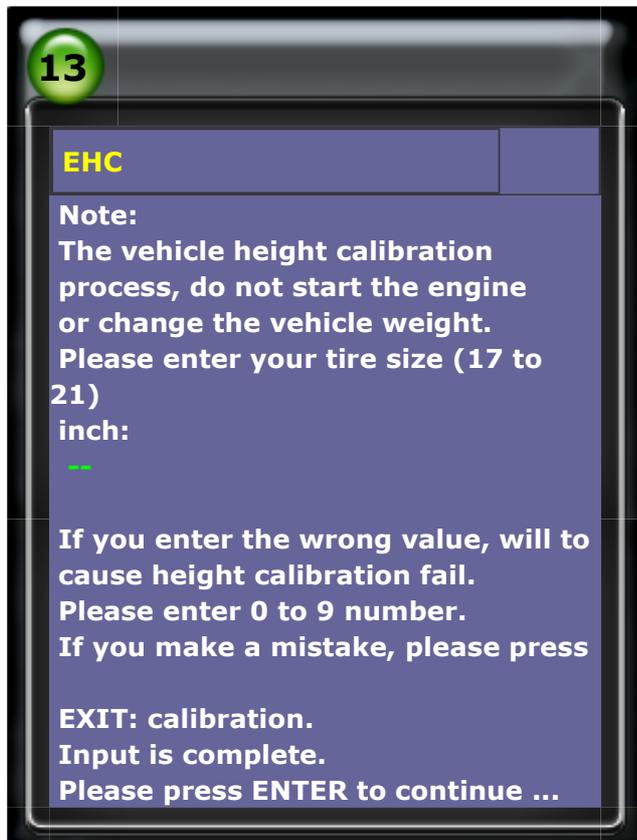
3 F10/F11

- 6 Integrated Chassis control (ICM)
- sensor system adjustment
- 7 Rear-axle slip-angle control (HSR) service functions
- 8 Vertical dynamics management
- 9 Ride height adjustment (EHC)**
- 10 Steering angle adjustment

6. Select Performing ride-high calibration



7. Enter Tire Size



8. Standard table



EHC

17-inch tires standard height:
Rear wheel: 634(mm) front wheel: 632(mm)

18-inch tires standard height:
Rear wheel: 647(mm) front wheel: 645(mm)

19-inch tires standard height:
Rear wheel: 660(mm) front wheel: 658(mm)

20-inch tires standard height:
Rear wheel: 673(mm) front wheel: 671(mm)

21-inch tires standard height:
Rear wheel: 686(mm) front wheel: 684(mm)

Please press ENTER to continue ...

EHC

Please use the tape measure along the direction of travel, to measure the currently left rear height. The lower part of the rim flange of the measurement to the wheel covers from the edge of

Please enter 'left rear' round the measurement height ____ (mm):

Note:
If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue ...

9. Enter measured distance: 634mm (Current left rear Tyre height)

17

EHC

Please use the tape measure along the direction of travel, to measure the currently left rear height. The lower part of the rim flange of the measurement to the wheel covers from the edge of

Please enter 'left rear' round the measurement height ____ (mm):
634

Note:
If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue...

18

EHC

Please use the tape measure along the direction of travel, to measure the currently right rear height. The lower part of the rim flange of the measurement to the wheel covers from the edge of

Please enter 'right rear' round the measurement height ____ (mm):

Note:
If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue ...

10. Enter measured distance: 634mm (Current right rear Tyre height)

19

20

EHC

Please use the tape measure along the direction of travel, to measure the currently right rear height. The lower part of the rim flange of the measurement to the wheel covers from the edge of
Please enter 'right rear ' round the measurement height ____ (mm):

634

Note:

If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue ...

EHC

Please use the tape measure along the direction of travel, to measure the currently left front height. The lower part of the rim flange of the measurement to the wheel covers from the edge of
Please enter 'left front' round the measurement height ____ (mm):

Note:

If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue ...

11. Enter measured distance: 633 mm (Current left front Tyre height)

21

EHC

Please use the tape measure along the direction of travel, to measure the currently left front height. The lower part of the rim flange of the measurement to the wheel covers from the edge of
Please enter 'left front' round the measurement height ____ (mm):

633

Note:

If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue...

22

EHC

Please use the tape measure along the direction of travel, to measure the currently right front height. The lower part of the rim flange of the measurement to the wheel covers from the edge of
Please enter 'right front' round the measurement height ____ (mm):

Note:

If you enter the wrong value, will lead to the height correction fail. Please enter 0 to 9 digits. If you make a mistake press EXIT: correction. After the input.

Please press ENTER to continue ...

12. Enter measured distance: 634mm (Current right front Tyre height)

23

EHC

Please use the tape measure along the direction of travel, to measure the currently right front height. The lower part of the rim flange of

24

EHC

Correction of body height ...

the measurement to the wheel covers from the edge of
Please enter 'right front' round the
measurement height ____ (mm):

634

Note:

If you enter the wrong value, will lead to the height correction fail.
Please enter 0 to 9 digits.

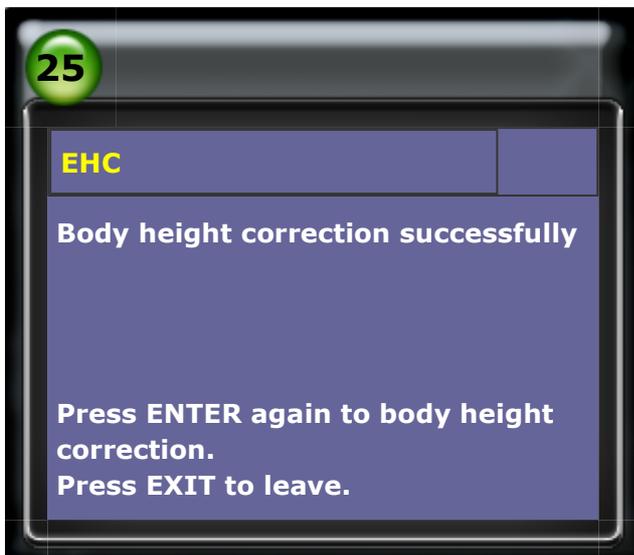
If you make a mistake press EXIT: correction.

After the input.

Please press ENTER to continue ...

Please wait ...

13. EHC calibration is finished



14. Measuring vehicle height



Measure the distance between lowest point of the rim and the nearest vertical point of the shroud.

