

SUBARU	V2015.10 / V2014.12SP2	USEN/TWCH/JPJP
ISUZU Truck	V2015.10 / V2014.12/V2013.12	USEN/TWCH
GM	V2015.10	USEN/TWCH
<b>2015-10-13</b>		
BMW F-CIP	V2015.10 / V2014.12SP3 / V2013.12SP6	USEN/TWCH
MB Coding	V2015.10 / V2014.12SP1	USEN/TWCH
FUSO	V2015.09 / V2014.12 / V2013.12SP2	USEN/TWCH
<b>2015-10-07</b>		
BMW Programming	V2015.09/V2014.12SP2/V2013.12SP6	USEN/TWCH
BMW Encoding Database	V2015.09	
KIA	V2015.08 / V2014.12	USEN/TWCH
PERODUA	V2015.09/V2012.12SP3	USEN
MINI	V2015.09/V2014.12SP1	USEN/TWCH/JPJP/KRKR
iSCAN-II MIN	V7.00	USEN/TWCH/JPJP/KRKR
RENAULT	V2015.09/V2014.12SP1	USEN/TWCH/JPJP

## Yearly Update Project (YUP) Software

Software release monthly for:

iScanIwt /VeDiSII EURO PRO YUP 2015

iScanIwt /VeDiSII ASIAN PRO YUP 2015

Please get the updates from website.

## Technical Guidance

### BMW Electromechanical power steering(EPS)Calibration

#### 1. Electromechanical power steering (EPS) system instruction:

BMW F10/F11 is equipped with an Electromechanical power steering(EPS) which replaced traditional hydraulic system. The servomotor is only in use when power steering is needed (during actual steering manoeuvres) and reduces the vehicle's power consumption when driving straight ahead.

The advantages are as following:

- (1). Lower fuel consumption / CO2 emission reduction
- (2). Reduces steering assistance when vehicle idling
- (3). Adjusts the steering power (Servotronic) in according to the current speed.
- (4). Active steering wheel return to center.
- (5). No hydraulic fluids

#### 2. When to perform Electromechanical power steering(EPS)Calibration

- (1). After system Programming / Coding
- (2). After system related parts have been repaired.
- (3). Fault 4823EA -EPS control unit: End stops not taught-in

#### 3. Electromechanical power steering (EPS) Calibration function:

Calibration of the sensors is important to the proper functioning of the EPS system and can correct Steering wheel vibration, Vehicle pull and differences in steering effort between left and right turns.

#### 4. Prerequisites (before calibration):

- (1). Park the vehicle on a level surface and make front wheel rotatable.
- (2). Stop the vehicle and keep the engine running.
- (3). Do not depress brake pedal and pull electronic hand brake.
- (4). No fault on DSC(Dynamic Stability Control) and SZL(Steering angle sensor).
- (5). EPS indicator lights up on dashboard.
- (6). Straighten the steering wheel.

#### 5. Indicator

EPS indicator



**How to perform this function utilizing iScan-IIwt and VeDiS-II:**

Demo model :BMW 2010 F10 523

**1. Select Vehicle Diagnostic → EUROPEAN**



**2. Select BMW PKG → BMW DIAG**



**3. Select F Series → BMW Diag F Series 2015.11 USEN**

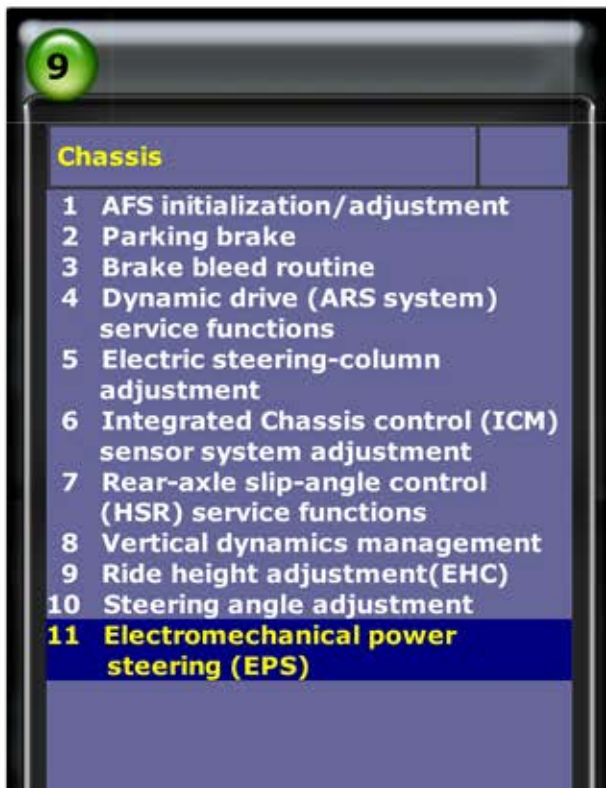




4. Select 3 Equipment Function Setup → 2 Chassis



5. Select 11 EPS → F10/F11/F18/F32





6. Please make sure if there are other fault codes with the exception of 4823EA-EPS .  
If yes, please clear those fault codes before do EPS calibration.  
If no other fault codes, press ENTER to continue.

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**Information!!**

For the teach-in of software and stops, the service function is needed after the following events:

- 1 Fault entry: 4823EA -EPS control unit: End stops not taught-in
- 2 Adjusting procedure/repair measures on the front axle. You will automatically be routed through the corresponding teach-in routine via the evaluation of the internal system statuses.

Press ENTER to continue

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**Step!!**

Ignition off  
Wait approximate 10 seconds  
Switch on ignition again

Press ENTER to continue

7. Turn the steering wheel to "centre position" and start engine.



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**Operation**

- 1 For this, turn the steering wheel to "centre position" (visually straight)
- 2 Switch on the combustion engine!

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**Calibration**

- Step1. Turn steering wheel further to right: NO
- Step2. Turn steering wheel to left to end stop:
- Step3. Turn steering wheel to

Please press ENTER to continue.

right to end stop:  
Step4. Turn steering wheel to  
centre position:  
(wheels in "straight ahead")

Press EXIT out of calibration

**8. Step 1: Turn the steering wheel further to the right and wait Step 1 data changed from NO to OK.**



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#### Calibration

Step1. Turn steering wheel further to right: NO  
Step2. Turn steering wheel to left to end stop:  
Step3. Turn steering wheel to right to end stop:  
Step4. Turn steering wheel to centre position:  
(wheels in "straight ahead")

Press EXIT out of calibration

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#### Calibration

Step1. Turn steering wheel further to right: OK  
Step2. Turn steering wheel to left to end stop: NO  
Step3. Turn steering wheel to right to end stop:  
Step4. Turn steering wheel to centre position:  
(wheels in "straight ahead")

Press EXIT out of calibration

**9. Step 2: Turn the steering wheel to the left to the end and hold the steering wheel until Step 2 data changed from NO to OK.**



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#### Calibration

- Step1. Turn steering wheel further to right: OK
- Step2. Turn steering wheel to left to end stop: NO
- Step3. Turn steering wheel to right to end stop:
- Step4. Turn steering wheel to centre position:  
(wheels in "straight ahead")

Press EXIT out of calibration

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#### Calibration

- Step1. Turn steering wheel further to right: OK
- Step2. Turn steering wheel to left to end stop: OK
- Step3. Turn steering wheel to right to end stop: NO
- Step4. Turn steering wheel to centre position:  
(wheels in "straight ahead")

Press EXIT out of calibration

10. Step 3. Turn the steering wheel to the right to the end and hold the steering wheel until Step 3 data changed from NO to OK.





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**Calibration**

Step1. Turn steering wheel further to right: OK	
Step2. Turn steering wheel to left to end stop: OK	
Step3. Turn steering wheel to right to end stop: NO	
Step4. Turn steering wheel to centre position: (wheels in "straight ahead")	

Press EXIT out of calibration

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**Calibration**

Step1. Turn steering wheel further to right: OK	
Step2. Turn steering wheel to left to end stop: OK	
Step3. Turn steering wheel to right to end stop: OK	
Step4. Turn steering wheel to centre position: NO (wheels in "straight ahead")	

Press EXIT out of calibration

**11. Step 4. Turn the steering wheel to centre position and wait Step 4 data changed from NO to OK.**



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#### Calibration

- Step1. Turn steering wheel further to right: OK
- Step2. Turn steering wheel to left to end stop: OK
- Step3. Turn steering wheel to right to end stop: OK
- Step4. Turn steering wheel to centre position: NO (wheels in "straight ahead")

Press EXIT out of calibration

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#### Calibration

- Step1. Turn steering wheel further to right: OK
- Step2. Turn steering wheel to left to end stop: OK
- Step3. Turn steering wheel to right to end stop: OK
- Step4. Turn steering wheel to centre position: OK (wheels in "straight ahead")

Press EXIT out of calibration

12. Please check if EPS indicator is off and message is disappeared from the dashboard. Then, road test to confirm whether the vehicle has the correct steering assist.

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#### Finished

Software limit position has been stored in EEPROM.  
The teach-in process was thereby successfully completed.

Press EXIT out of calibration