**Yearly Update Project (YUP) Software**

Software release monthly for:
- iScanIIw / VeDisII EURO PRO YUP 2015
- iScanIIw / VeDisII ASIAN PRO YUP 2015

Please get the updates from website.

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**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 accordance 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

Chassis
1. AFS initialization/adjustment
2. Parking brake
3. Brake bleed routine
4. Dynamic drive (ARS system) service functions
5. Electric steering-column adjustment
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
11. Electromechanical power steering (EPS)
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.

11. 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

12. 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.

13. Operation

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

14. Calibration

Step1. Turn steering wheel further to right: NO
Step2. Turn steering wheel to left to end stop:
Step3. Turn steering wheel to
8. **Step 1:** Turn the steering wheel further to the right and wait Step 1 data changed from **NO** to **OK**.

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

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

Press EXIT out of calibration