



**Trade Show**

**Auto Service Show Japan**

June 17 - June 19, 2011

Tokyo International Exhibition Center "Tokyo Big Sight"

Booth Number: 547

We look forward to greeting you there!

**iSCAN-II / VeDiS-II / D91 Latest Versions (May, 2011)**

iSCAN-II IMS2 BMW	V3.01	English/Chinese	2011-05-05
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**VeDiS Yearly Update Project (YUP) Software**

Software releases monthly for D91-EURO PRO YUP 2011 / D91-ASIAN PRO YUP 2011.  
YUP customers, please get the updates from website.

**Technical Guidance**

**TOYOTA: EPS (Electric Power Steering)**

**EPS Modes**

**Normal mode** -- Left and right assist is provided in response to inputs and vehicle speed.

**Return mode** -- Used to assist steering return after completing a turn. Feedback from the steering position sensor prevents the EPS system from "overshooting" the center position.

**Damper control mode** -- Used to improve road feel and dampen kickback. This mode typically kicks in at higher vehicle speeds.

**Protection mode** -- Protects electrical components from thermal damage and excessive current flow if the steering is held all the way to one side in the lock position too long.

**EPS back-up protection**

**Stop assist power:**

1. The torque sensor is defective.
2. The motor is overloaded.

3. The motor is shorted.
4. EPS ECU system fault

**Limit assist power:**

1. The motor is overheated.
2. The EPS ECU temperature is too high
3. The inner temperature sensor of EPS ECU is faulty.
4. The speed sensor and engine speed sensor signal is faulty.

**Suspend assist power:**

1. The voltage of power supply is defective.

**Conditions to perform the torque sensor adjustment**

1. The EPS ECU has been replaced.
2. The steering gear assembly has been replaced.
3. There is a different in turing force when turing right or left.

When there is other fault codes (except C1515/C1516) in EPS system, the torque sensor adjustment can not be performed.

**For example: TOYOTA ALTIS 2008 1.6L**

**Procedures on iSCAN-II:**

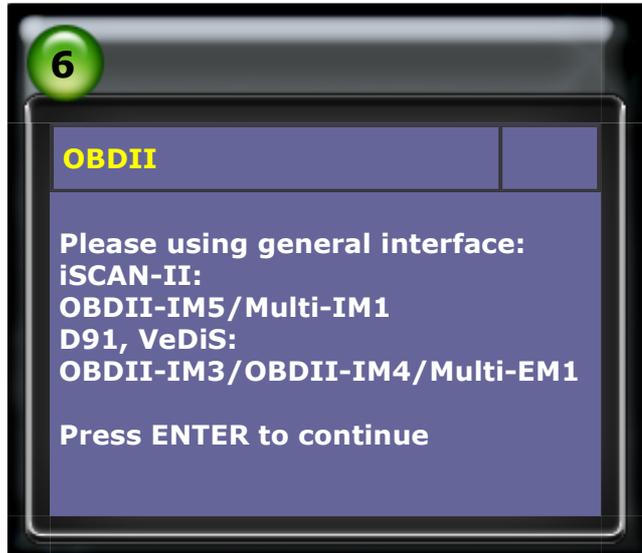
1. Select **Vehicle Diagnostic** -> select **ASIAN**



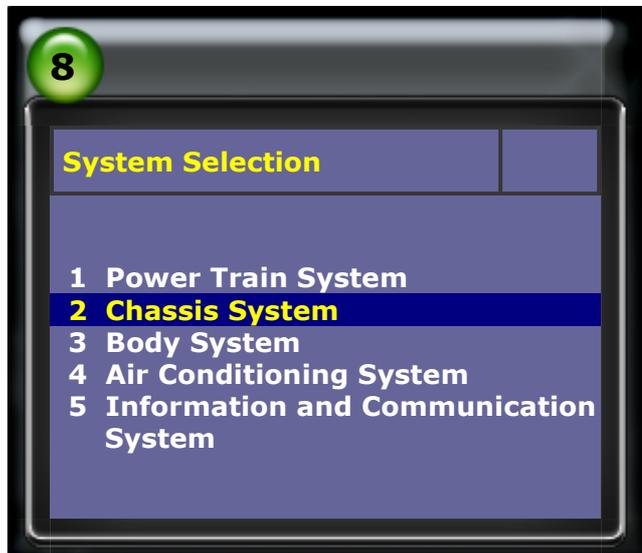
2. Select **JAPAN**, and select **TOYOTA**



3. Select **OBDD II**, confirm the correct multiplexer



4. Select **Diagnosis**, then select **Chassis System**

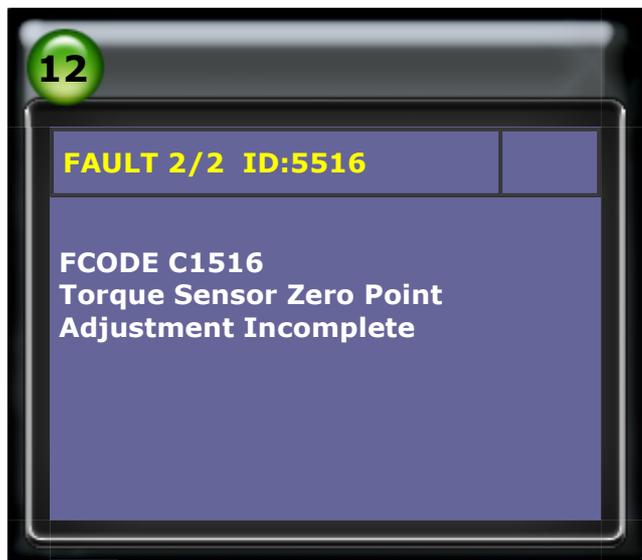
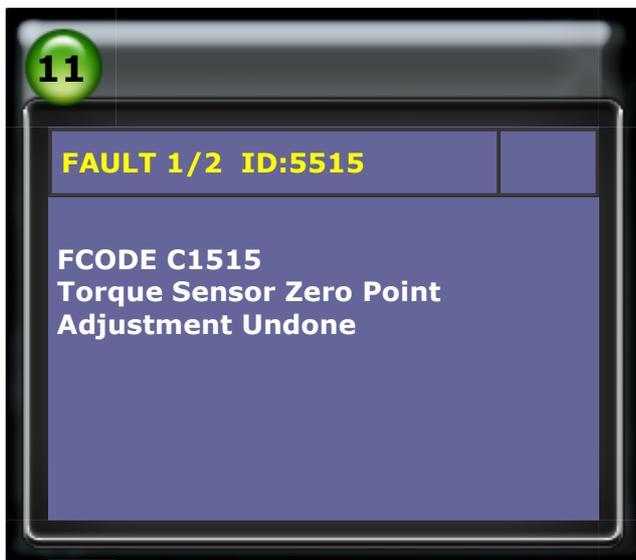


5. Select **EMPS/EHPS**, then select **Read Fault Code**



6. Fault code: **C1515 & C1516**





7. Select **Adaptation**, then select **Type**

According to different models, the types of torque sensor adjustment will be also different. Please select the correct type to perform the torque sensor adjustment.

For example:

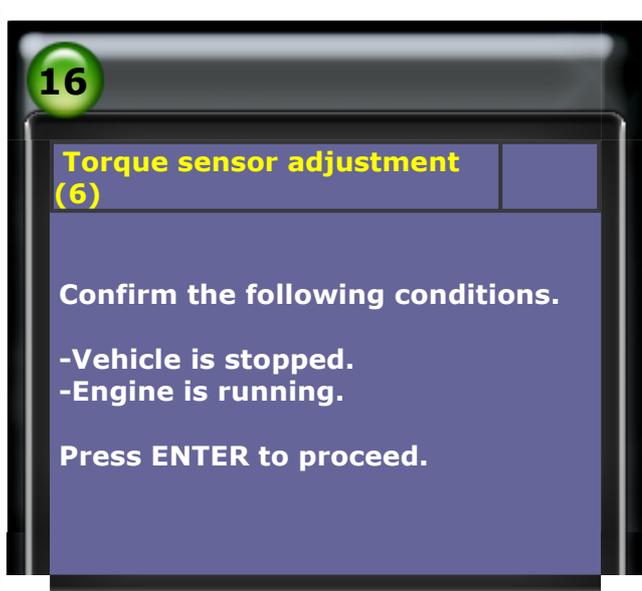
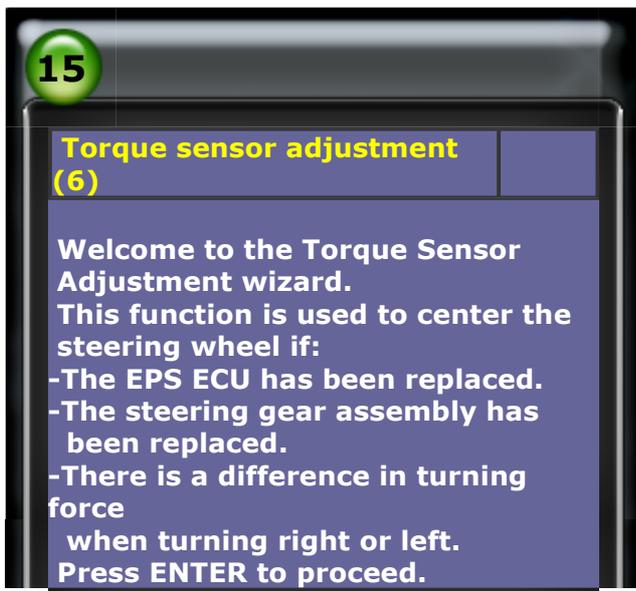
Type 6: Models assembled in Taiwan: 2008 WISH, 2008 ALTIS

Type 4: Models produced in Japan, 2007 Lexus IS250

Type 1: 2007 YARIS



8. Follow the steps on screen and confirm the conditions.



9. Follow the instructions on the screen to continue

**17**

**Torque sensor adjustment (6)**

Turn engine switch OFF and start engine, then press ENTER.

**18**

**Torque sensor adjustment (6)**

Confirm the following conditions.

- PS warning light is on.
- Steering wheel is centered.

Press ENTER to proceed.



10. Torque sensor adjustment is complete.

**19**

**Torque sensor adjustment (6)**

Now CALIBRATING  
About 10 sec.

**20**

**Torque sensor adjustment (6)**

Torque Sensor Adjustment is complete.

Press EXIT to exit.

**11. Confirm no fault code.**

