

## Toyota / Lexus

### Steering Angle Calibration - (Torque Sensor Adjustment)

This procedure is sometimes required after various conditions have occurred. Usually the PS (Power Steering) dashboard lamp is illuminated.

The procedure is required after collision repairs, steering column work, SRS work, suspension & steering alterations, wheel alignment work, after EPS ECU replacement or after general work has been performed in these areas.

**IMPORTANT:** Permanent module damage can occur. Always ensure battery is fully charged or an approved battery voltage charger is connected when performing any calibration or programming functions – refer to factory information.

#### STEP 1

- a) Connect the G-Scan to the vehicle
- b) Power 'ON' the G-Scan
- c) Select 'Diagnosis'
- d) Select the appropriate manufacturer – TOYOTA / LEXUS
- e) Select 'General Area' – 'Passenger Car' – 'All Model' – All Type – '16PIN CONNECTOR' – 'EPS(Electric Power Steering)'
- f) Click 'OK'

#### STEP 2

- a) Select 'DTC Analysis'
- b) Clear any set DTC's - \*Tip: use the screen capture icon to record any stored DTC's for future reference.
- c) Click 'Erase' – note: many EPS codes will remain logged until the calibration adjustment is performed.

#### STEP 3

- a) Select 'Special Functions'
- b) Select 'Torque sensor adjustment'
- c) Follow the 'Welcome to torque sensor adjustment wizard' prompts.

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Wizard screen prompts confirmations for calibration:

Confirm the following conditions.

- Vehicle is stopped.
- Engine switch is ON(Ready) – (Ignition switch ON/Engine OFF)

Press [OK] to Next.

Turn Engine switch OFF and wait about 1 min. and then switch ON(Ready),After press[OK] – (Ignition switch ON/Engine OFF, wait 1 minute and turn ignition switch ON)

Confirm the PS warning light is ON.

Press [OK] to next.

Confirm the steering wheel is centered.

Note : Do not touch the steering wheel while the system is calibrating. – (if you have already started the calibration process do not touch the steering wheel)

Press [OK] to next.

Perform the following operations, then press [OK]

1. Set the steering wheel to the center position.
2. Turn the steering wheel either direction 45 degrees or more.
3. Turn the steering wheel back to the center position.
4. Turn the steering wheel the opposite direction 45 degrees or more – (opposite direction to that in step 2.)
5. Turn the steering wheel back to the center position.

Press [OK] to next.

Caution!!

If started calibration do not touch the steering. – **(DO NOT touch the steering wheel for 1 minute during calibration process)**

Calibration process will then start – the 'Now Calibrating....' screen is displayed.

When the process is finished the 'Completed' screen is displayed.

Click OK.

Check that the PS light is OFF.

Re-check for any DTC's - ('DTC Analysis' Menu Screen)

Clear any DTC's – note: most times DTC's will be automatically erased once PS light is OFF.