

Toyota / Lexus

Steering Angle Calibration – (Yaw-Rate G-Sensor zero-point learning & Linear Valve Off-set learning)

This procedure is sometimes required after various conditions have happened and dashboard lights are 'ON' – usually **ABS** and **VSC** lights. After accident repairs, steering column work, SRS work, suspension, wheel alignment and steering components have been changed or work has been carried out in these areas the reset procedure is required.

IMPORTANT: Permanent module damage can occur. Always ensure battery is in a fully charged state or an approved battery voltage charger is connected when performing any calibration or programming functions – refer to factory information and safe workshop procedures.

STEP 1 – Important: Ignition 'ON' – Engine 'OFF'

- 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' – 'ABS/VSC'
- f) Click 'OK'

STEP 2

- a) Select 'DTC Analysis' – *DO NOT select 'Special Function'
- b) Clear any set DTC's - *Tip: use the screen capture icon to record any stored DTC's for future reference.
- c) Click 'Erase' to clear DTC's – check DTC's have been cleared

STEP 3

- a) Select 'Mode' button. A message text box screen will appear which includes all relevant instructions.
- b) Scroll down step-by-step for both Yaw-Rate G-Sensor zero-point learning and Linear Valve OFF-set learning instructions.
- c) Select 'OK' and then select the 'Mode' button – this places G-Scan into 'Test Mode'
- d) Note: Many DTC's will appear while in 'Test Mode'

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After noting the required reset parameters for **Yaw-Rate G-Sensor zero-point learning** select the message text box '**OK**' button.

Select the '**Mode**' button – system is now in '**Test Mode**'.

Note: many DTC's will appear while in '**Test Mode**'.

- Check that the **VSC** light changes from a constantly illuminated state to a flashing state.
 - Re-select '**Mode**' button to enter '**Normal Mode**'.
 - **Yaw-Rate G-Sensor zero-point** learning procedure should now be completed.
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- Switch ignition '**OFF**' and then '**ON**'.
 - Check all dash board warning lights are '**OFF**'.
 - Re-check no DTC's are displayed.
 - Perform a short vehicle road test to ensure all warning lights remain '**OFF**' permanently.

Steering Angle Calibration – (Linear Valve OFF-set learning)

After noting the required reset parameters for **Linear Valve OFF-set Learning** select the message text box '**OK**' button.

Select the '**Mode**' button – system is now in '**Test Mode**'.

Note: many DTC's will appear while in '**Test Mode**'.

- **Important: Ignition 'ON' / Engine 'OFF'.**
- DO NOT apply or touch the brake pedal for between 1~2 minutes.
- Check the ECB dashboard warning light flashes change from one time per second to four times per second.
- Re-select '**Mode**' button to enter '**Normal Mode**'.
- **Linear Valve OFF-set learning** procedure should now be completed.
- Switch ignition '**OFF**' and then '**ON**' and check all warning lights are now '**OFF**'.