

## NISSAN / INFINITI: VDC (Vehicle Dynamics Control)

### How to Adjust Neutral Position of Steering Angle Sensor?

#### Situations Required to Adjust Neutral Position of Steering Angle Sensor:

In case of doing work that applies to the list below, make sure to adjust neutral position of steering angle sensor before running vehicle.

1. Removing/Installing VDC/TCS/ABS control unit
2. Replacing VDC/TCS/ABS control unit
3. Removing/Installing steering angle sensor
4. Removing/Installing steering and suspension components
5. Adjusting wheel alignment

#### CAUTION:

1. Before adjusting neutral position of steering angle sensor, make sure that there is no other DTC (fault code) on VDC/TCS/ABS system.
2. To adjust neutral position of steering angle sensor, it is essential to do by a diagnostic scanner.
3. Incorrect wheel and tire application will cause incorrect application of VDC/TCS/ABS.

#### Operating Procedure:

1. Stop vehicle with front wheels in straight-ahead position.
2. Connect iSCAN-II, OBDII-IM5, AC-EC1, and OBDII-AC-16P to the diagnostic socket on vehicle, then turn ignition switch ON (do not start engine).
3. Select **ABS** and **adjust neutral position of Steering Angle Sensor** function.
4. Do not touch steering wheel while adjusting steering angle sensor.
5. After approximate 10 seconds, it ends automatically.
6. Turn ignition switch OFF, then turn it ON again.
7. Run vehicle with front wheel in straight-ahead position.

8. Select **Data Stream** and view if the **Steering Angle is within  $0 \pm 3.5$  degree**.
9. **Clear Fault Code** of VDC/TCS/ABS control unit and ECM.
10. Turn ignition switch OFF.

### Steps on iSCAN-II:

#### Example 1: Year 2007 NISSAN TEANA VDC

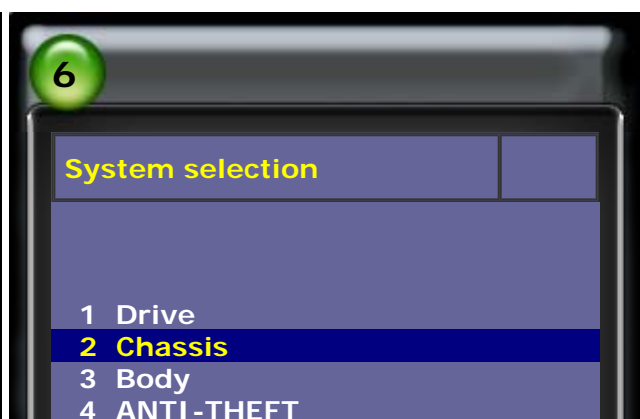
1. Select **Vehicle Diagnostic** → select **ASIAN**



2. Select **JAPAN** → select **NISSAN** software



3. Select **OBDII 16PINS** → select **Chassis**



Model  
in Mexico

5 System Search

4. Select **ABS ALL**

7

System selection

- 1 **ABS, ALL**
- 2 ABS, up to 1999
- 3 ABS, after 1999
- 4 TCS
- 5 All Mode 4WD/AWD
- 6 ACT D/SUS
- 7 ELECTRONIC POWER STEERING
- 8 TPMS

8

ECU version

ABS ECU version: **5A31 47660-AM502**

Press ENTER to continue.

5. Select **Read Fault Code** → confirm the fault and repair

9

Functions List

- 1 ECU version
- 2 Data Stream
- 3 **Read Fault Code**
- 4 Clear Fault Code
- 5 ADAPTATION

10

Fault

C1144  
ST angle sensor circuit

6. Select **ADAPTATION** → select **Steering angle adjustment**

11

Functions List

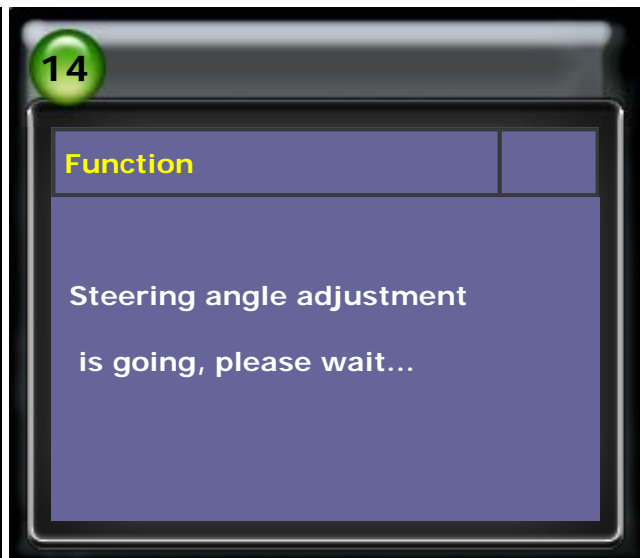
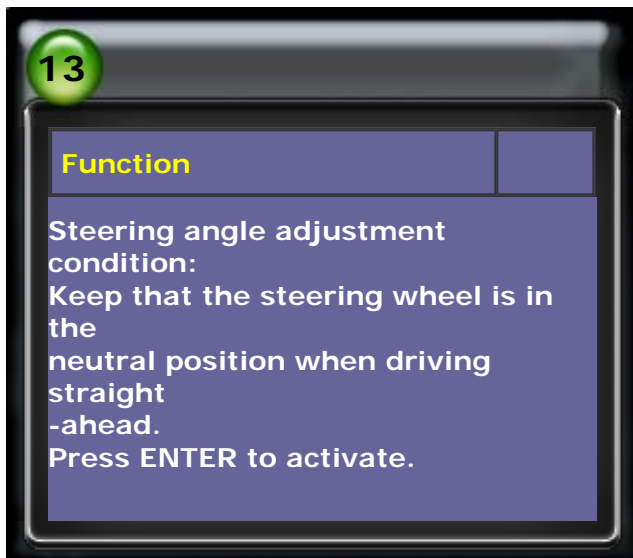
- 1 ECU version
- 2 Data Stream
- 3 Read Fault Code
- 4 Clear Fault Code
- 5 **ADAPTATION**

12

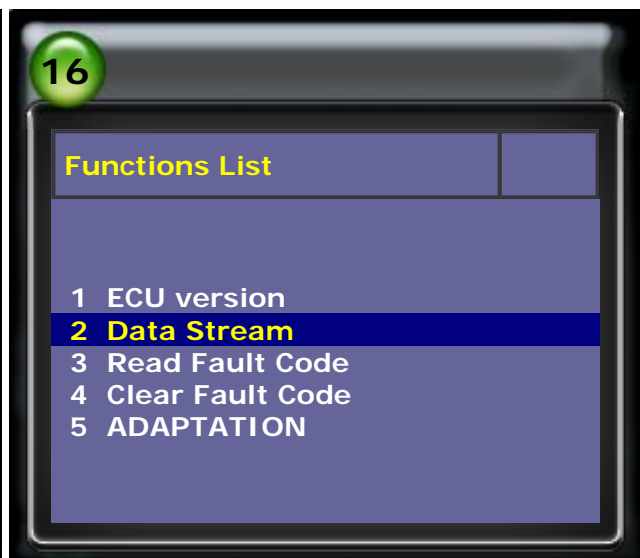
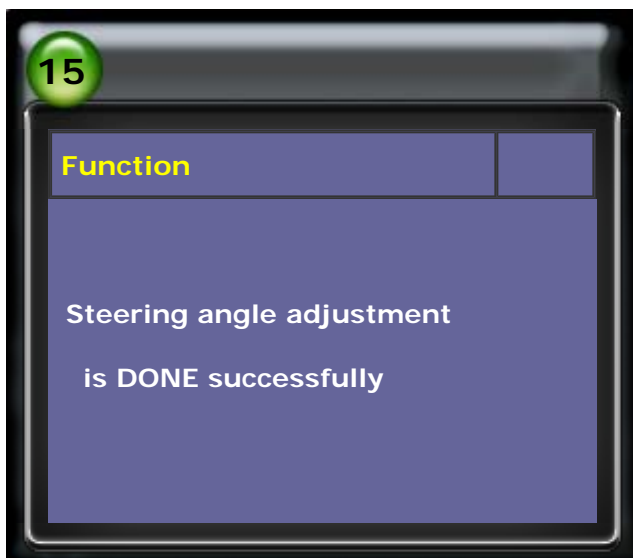
ADAPTATION

- 1 **Steering angle adjustment**
- 2 Deceleration G sensor calibration
- 3 Side G sensor calibration
- 4 Pressure sensor calibration

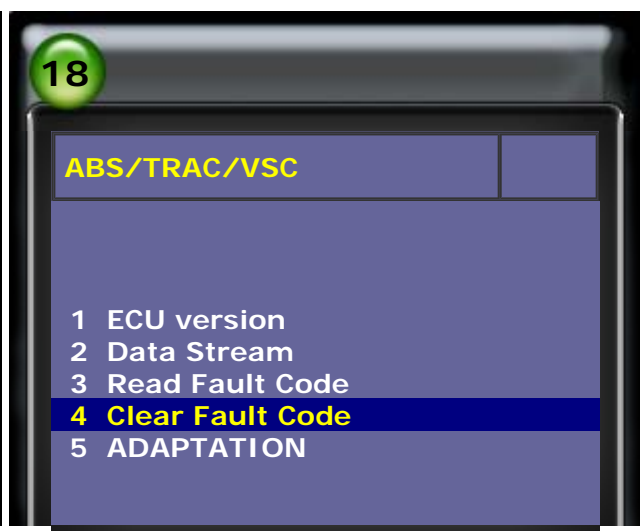
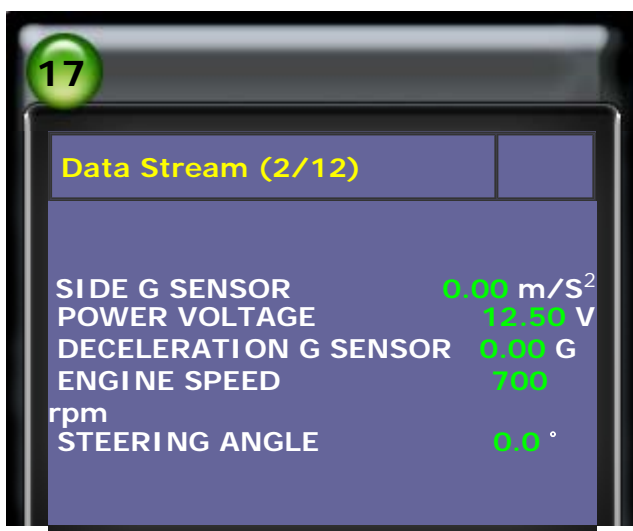
7. Follow the steps on screen, to keep the steering wheel is in the neutral position when driving straight-ahead.



8. After steering angle adjustment is done successfully, select **Data Stream** to view if the steering angle is within  $0 \pm 3.5$  degree.



9. Check if the steering angle is within  $0 \pm 3.5$  degree → select **Clear Fault Code** → turn ignition switch OFF.



Example 2: Year 2007 INFINITI FX35 VDC

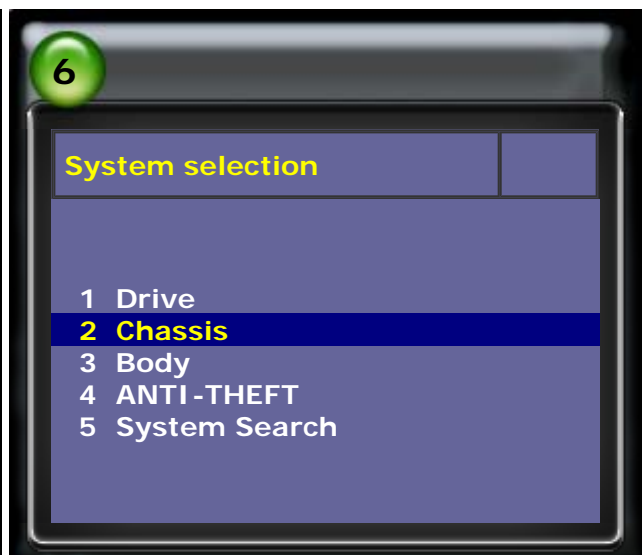
1. Select **Vehicle Diagnostic** → select **ASIAN**



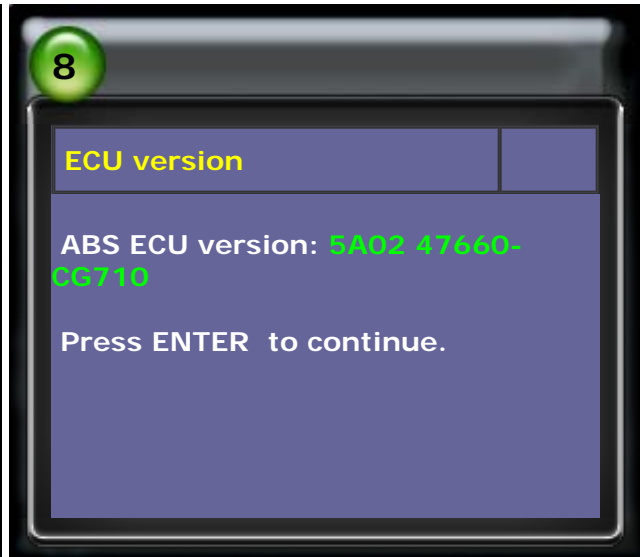
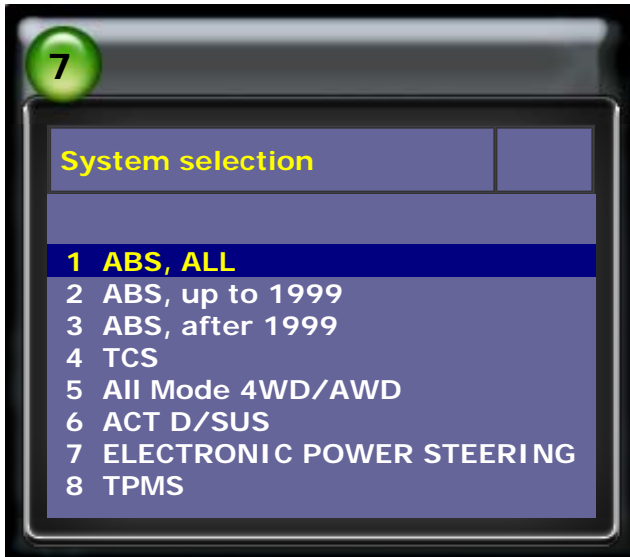
2. Select **JAPAN** → select **INFINITI** software



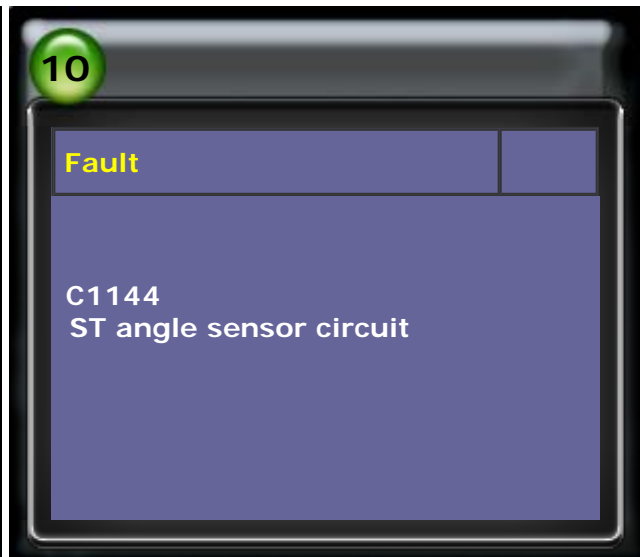
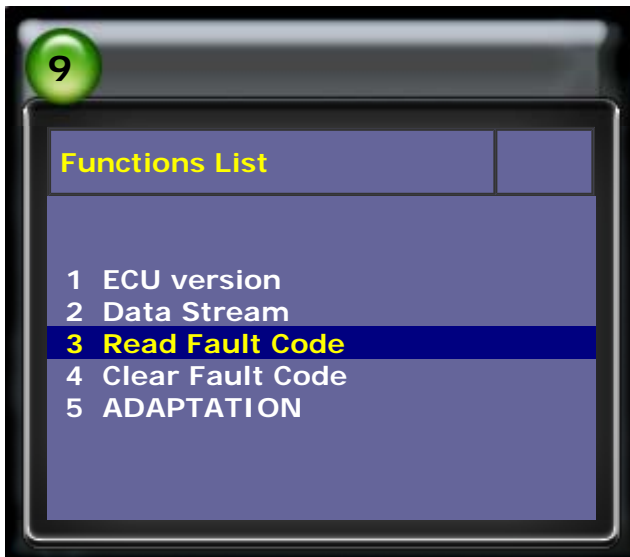
3. Select **OBDII 16PINS** → select **Chassis**



4. Select **ABS ALL**



5. Select **Read Fault Code** → confirm the fault and repair

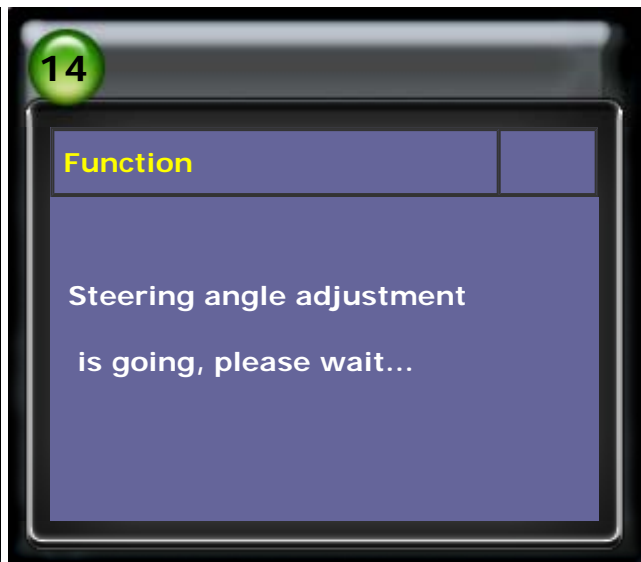
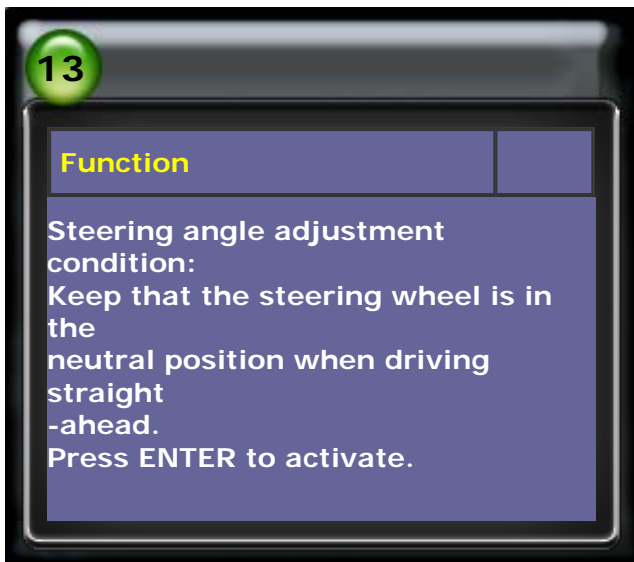


6. Select **ADAPTATION** → select **Steering angle adjustment**

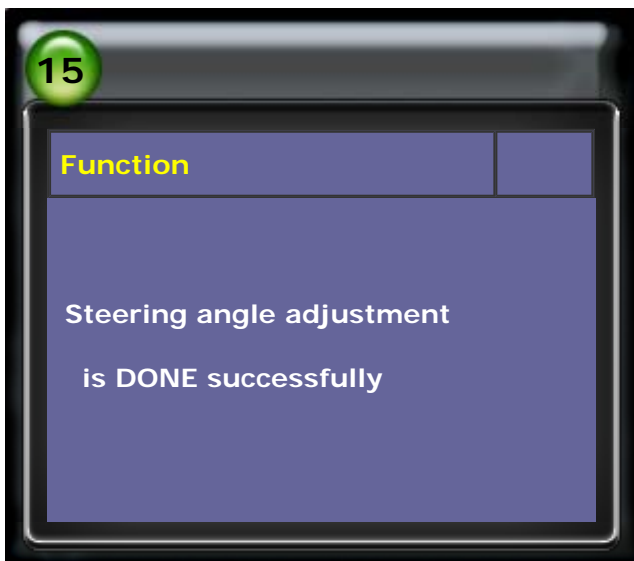


7. Follow the steps on screen, to keep the steering wheel is in the neutral position when driving straight-ahead.





8. After steering angle adjustment is done successfully, select **Data Stream** to view if the steering angle is within  $0 \pm 3.5$  degree.



9. Check if the steering angle is within  $0 \pm 3.5$  degree → select **Clear Fault Code** → turn ignition switch OFF.

