Back to Main



ISCAN-II FORD	V1.01	English/Chinese	2008-11-04
ISCAN- II DAIHATSU CAN	V1.01	English/Chinese/Japanese	2008-11-10
ISCAN-II SMART	V1.01	English/Chinese/Japanese	2008-11-10
ISCAN-II RENAULT	V1.01	English/Chinese/Japanese	2008-11-10
ISCAN-II PEUGEOT	V1.01	English/Chinese/Japanese	2008-11-10
ISCAN-II CITROEN	V1.01	English/Chinese/Japanese	2008-11-10
ISCAN-II TOYOTA	V1.01 SP1	English/Chinese/Japanese	2008-11-21
ISCAN-II NISSAN	V1.03	English/Chinese/Japanese	2008-11-21
ISCAN-II VASS	V1.05 SP1	English/Chinese/Japanese	2008-11-21
ISCAN-II BMW	V1.04	English/Chinese/Japanese	2008-11-21

ISCAN-II VOLVO	V1.00 SP2	English/Chinese/Japanese	2008-11-21
ISCAN-II HYUNDAI	V1.01 SP1	English/Chinese	2008-11-21
ISCAN-II SSANGYONG	V1.01	English/Chinese	2008-11-21
ISCAN-II OBDII	V1.01	English/Chinese/Japanese	2008-11-21
ISCAN-II HONDA	V1.01 SP2	English/Chinese/Japanese	2008-11-24
D91-FORD	V3.00	English/Chinese	2008-11-04
D91-NISSAN	V4.03 / V3.55	English/Chinese/Japanese	2008-11-21
D91-VASS	V5.55 SP1	English/Chinese/Japanese	2008-11-21
D91-VOLVO	V4.02 SP2 / V3.52SP2 / V3.02 SP2	English/Chinese	2008-11-21
D91-HYUNDAI	V3.01 SP1 / V2.50 SP3 / V2.01 SP4 / V1.00 SP7	English/Chinese	2008-11-21
D91-SSANGYONG	V1.50 SP1	English/Chinese	2008-11-21
D91-HONDA	V2.51 SP2	English/Chinese/Japanese	2008-11-24

VeDiS Yearly Update Project (YUP) Software

Software releases monthly for D91-EURO PRO YUP 2008 / D91-ASIAN PRO YUP 2008 YUP customers, please get the updates from web site

Technical Guidance

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 ± 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
MENU	Vehicle Diagnostic
 Vehicle Diagnostic 1MS² (Interface Module Simulation System) 0 OBD-II Standard Compliant iSCAN-II (V1.00)USEN 20 SETUP 	1 ASIAN 2 EUROPEAN

2. Select JAPAN → select NISSAN software



3. Select OBDI1 16PINS → select Chassis

5	6
NISSAN	System selection
Select the connector:	1 Drive
1 OBDIT 16-pins	2 Chassis
2 NISSAN 14-pins	3 Body
3 NISSAN 14-pins for TSURU	4 ANTI-THEFT

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 \rightarrow select Clear Fault Code \rightarrow turn ignition switch OFF.





1. Select Vehicle Diagnostic → select ASIAN



2. Select JAPAN → select INFINITI software



3. Select OBDI1 16PINS → select Chassis

5	6
NISSAN Select the connector: 1 OBDII 16-pins 2 NISSAN 14-pins 3 NISSAN 14-pins for TSURU Model in Mexico	System selection 1 Drive 2 Chassis 3 Body 4 ANTI-THEFT 5 System Search

2

4. Select ABS ALL



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

9	10
Functions List	Fault
 1 ECU version 2 Data Stream 3 Read Fault Code 4 Clear Fault Code 5 ADAPTATION 	C1144 ST angle sensor circuit

6. Select ADAPTATION → select Steering angle adjustment

1	12
Functions List	ADAPTATION
 1 ECU version 2 Data Stream 3 Read Fault Code 4 Clear Fault Code 5 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.

15	16
Function	Functions List
Steering angle adjustment is DONE successfully	 1 ECU version 2 Data Stream 3 Read Fault Code 4 Clear Fault Code 5 ADAPTATION

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

17	18
Data Stream (2/12)	ABS/TRAC/VSC
SIDE G SENSOR m/S ² POWER VOLTAGE 12 40 V DECELERATION G SENSOR 0 0 G ENGINE SPEED 0 rpm STEERING ANGLE 0 0 °	 ECU version Data Stream Read Fault Code Clear Fault Code ADAPTATION

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