

> VNTT-PRO V4.07 (USB) turbocharger actuators tester

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TEXT_PRODUCTS_NAMEVNTT-PRO V4.07 (USB) turbocharger actuators tester

Manufacturer : -

Catalog No. : -



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What is the purpose of the VNTT-PRO?
VNTT-PRO tester is designed to perform diagnosis of actuators (electric valves, DC motors) of VNT (Variable Nozzle Turbine) turbochargers. These actuators change position of turbocharger vanes in the same way as in turbochargers where turbine geometry was changed using vacuum.

Apart from testing electronic turbocharger units VNTT-PRO tester can be used to check variable geometry position sensors. These are found in turbines that use vacuum or pressure controlled pneumatic valve to change geometry position. They enable readout of variable geometry vanes opening percentage.

The tester is also able to diagnose boost pressure valve operation.

VNTT-PRO tester may be helpful in adjusting the operating range of variable geometry.

What kind of position sensors can be checked with VNTT-PRO?
VNTT-PRO device allows you to check potentiometric sensors and inductive sensors (Hall) manufactured by:

1. Honeywell

Used among others in

Audi A3, Golf VI, VW Passat, VW Polo with 1.6TDI 105KM, Octavia II 2.0TDI 170KM

2. BorgWarner

Used among others in

Audi A3 2.0TDI 140KM, Audi A4 2.0TDI 170KM, AlfaRomeo MiTo 1.3 MultiJet

3. Mellet

Used among others in

Citroen C4, C5 II 2.0Hdi 136KM, Peugeot 307, 308, 407, 607 2.0Hdi 136KM

Which turbocharger actuators are supported by VNTT-PRO tester?

The device supports actuators manufactured by HELLA, SIEMENS, MITSUBISHI, SONCEBOZ, DENSO, MAHLE and HITACHI. The range covers significant part of the actuators currently used in the automotive industry.

1. HELLA actuators

The tester supports turbocharger actuators part numbers:6NW 008 0916NW 008 4126NW 009 2066NW 009 2286NW 009 4206NW 009 4836NW 009 5436NW 009

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5506NW 009 6606NW 010 099-016NW 010 099-026NW 010 099-036NW 010
099-056NW 010 099-076NW 010 099-086NW 010 430-016NW 010 430-036NW 010
430-04

The appearance of the HELLA turbo actuator:

Most of HELLA actuators found in the market are so-called actuators 'with electronics' because they have separate DC motor controller for lever adjustment integrated in the unit. They are used in cars including Mercedes, Ford 1.8 TDCI, 2.0 TDCI, BMW 2.0, Jeep Cherokee 3.0 CRD, VW Touareg 5.0 TDI V10, Nissan Navarra 2.5.

The following image shows their appearance.

6NW 008 412

6NW 009 660

6NW 008 091

6NW 010 099

There is a second type of HELLA actuators, called 'without electronics' because they have no integrated DC motor driver, as this is performed by the ECU. They are used among others in: Audi/VW 2.7 TDI and 3.0 TDI, Ford 2.4, BMW X3 2.0.

The following picture shows exterior view of these units:

6NW 009 206

6NW 010 430-01

2. SIEMENS actuators

The tester supports all turbocharger actuators manufactured by SIEMENS. These are used among others in Audi/VW 2.7 TDI and 3.0 TDI, Mercedes, BMW.

The image below shows the appearance of a typical SIEMENS actuator.

3. MITSUBISHI actuators

This tester supports all MITSUBISHI actuators. These are used among others in BMW 320d, Ford 2.2 TDCI and in PSA Group cars with 2.HDI.

The image below shows appearance of exemplary MITSUBISHI actuators.

Actuator for BMW

Actuator for Ford/PSA

4. SONCEBOZ actuators

The device supports turbo actuators manufactured by SONCEBOZ. These can be found among others in LandRover and Mercedes.

The image below shows appearance of typical SONCEBOZ actuator.

5. DENSO actuators

This device supports turbo actuators manufactured by DENSO. These actuators can be found among others in Toyota 1.4 D-4D and 3.0 D-4D.

The appearance of exemplary DENSO actuators:

Actuator for Toyota 1.4 D-4D

Actuator for Toyota 3.0 D-4D

6. MAHLE actuators

The tester supports MAHLE turbo actuators. These can be found among others in VW,

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Skoda with 1.2 TSI engine.

The appearance of typical MAHLE turbo actuator is shown below.

7. HITACHI actuators

The tester supports HITACHI turbo actuators. These can be found among others Opel Vectra C/Signum 3.0 V6 CDTI 184KM and Renault Velsatis 3.0 V6 dCI 184KM.

From what time and in which brands are turbocharger actuators used?

Turbochargers with actuators were introduced in 2003 and since then they are widely used in car makes such as Audi, VW, Mercedes, BMW, Ford, Jaguar, Jeep, Chrysler and others

What can I check with VNTT-PRO device?

VNTT-PRO device allows you to check:

uniformity of actuator lever movement,

lever tractive resistance,

range of actuator lever movement,

mechanical parts as well as actuator electronics,

DC motor used in turbo actuators to change lever position,

correctness of variable geometry range adjustment,

correctness of variable geometry position sensor operation,

correctness of internal temperature sensor operation (only certain Hella units),

vacuum solenoid valve controlling turbo actuator.

In case of Hella and Siemens turbo actuators, the tester can also identify the actuator, determining from which car manufacturer comes the tested unit. As turbocharger manufacturers state, the actuator is an integral part of turbine and therefore it cannot be repaired or replaced without replacing the entire turbine unit. With VNTT-PRO tester it is possible to determine, sometimes simple cause of turbocharger failure and then the user may try to repair it.

Who should use VNTT-PRO tester?

VNTT-PRO tester can be successfully used in businesses involved in regeneration of turbochargers as well as in car garages offering wide range of repairs in order to diagnose the cause of turbocharger malfunction.

Are original actuator connectors included?

The device includes original connectors for: HELLA, SIEMENS, MITSUBISHI (for BMW), SONCEBOZ, DENSO, MAHLE and HITACHI turbo actuators.

For MITSUBISHI (for Ford/FSA) actuators there is a cable included with universal terminals.

All connection cables for variable geometry position sensor are ended with original connectors.

What kind of power supply is required?

VNTT-PRO tester can be powered from a DC supply with 12.. 15V output. The power supply should have current capability of minimum 4A. The device is supplied with a dedicated DC power supply.

Is online upgrade possible?

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Yes. Simply connect the tester to the USB port of any PC or laptop that has Internet access and run Updater software (CD-ROM included). Details on update process available in User Manual.

What is included in the VNTT-PRO box?

Contents of VNTT-PRO kit:

VNTT-PRO tester

HELLA connection cable (6NW 008 091, 6NW 008 412, 6NW 009 228, 6NW 009 420, 6NW 009 543, 6NW 009 660, 6NW 010 099-01)

HELLA connection cable (6NW 009 206, 6NW 009 550, 6NW 009 483, 6NW 010 430-01, 6NW 010 430-03, 6NW 010 430-04)

HELLA connection cable (6NW 010 099-02)

MITSUBISHI connection cable for BMW

SIEMENS connection cable for VW/Audi

SIEMENS connection cable for Mercedes and BMW

SONCEBOZ connection cable

MAHLE connection cable

DENSO connection cable for Toyota 1.4 D-4D

DENSO connection cable for Toyota 3.0 D-4D

HITACHI connection cable for Opel Vectra C/Signum 3.0 V6

geometry position sensor connection cable for VW/Audi

geometry position sensor connection cable for Opel, Fiat, Alfa Romeo

geometry position sensor connection cable for Citroen, Peugeot.

geometry position sensor connection cable for Ford

universal connection cable for:- MITSUBISHI actuators for Ford/PSA- DC motors-

geometry position sensors

DC power supply

USB cable for firmware update

CD-ROM with Updater tool

User Manual

Where can I see how the tester works?

Tester actual working can be found on our Youtube channel.

Price : 4990.00EUR

Availability: This product was added to our catalog on Wednesday 18 July, 2018