

Non-electrical diagnosis test modules: Important note on non-electrical diagnosis NED

Starting from **ISTA version 4.18**, the **NED test modules in ISTA** and **NED documents in AIR** are no longer available.

Individual scopes of NED are included in ISTA in der **electrical diagnosis** starting from version 4.18 (under "Current fault patterns") and in **PuMA/SIB**.

Going forward, new topics shall be published only via PuMA/SIB.

AM1101_00597 - Engine, noise

Brief description of the test module for non-electrical diagnosis:

Engine noise

Applies to:

Engine: N55, N56

Content (excerpt):

- Clicking noise for approx. 10 s after cold start
- Increased exhaust noise after the cold start
- Rattling noise from the valve gear
- Squeaking noise after switching on electrical devices
- Hissing noise when pressing the brake pedal after shutting down the engine
- Whistling at idle speed
- Whirring / rattling from the area of the coolant line from 2000 rpm
- Clicking sound after the engine stop
- Clattering noise from engine compartment after the wake up of the Digital Motor Electronics

Vehicle communication: Yes

ISTA path:

Activities / Information search / Non-electrical diagnosis / 01 drive / 01 noise / engine noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM1101_00598 - Engine, noise

Brief description of the test module for non-electrical diagnosis:

Engine noise

Applies to:

Engine: N55, N56

Content (excerpt):

- Clicking noise for approx. 10 s after cold start
- Increased exhaust noise after the cold start
- Rattling noise from the valve gear
- Squeaking noise from the belt drive
- Squeaking noise after switching on electrical devices
- Hissing noise when pressing the brake pedal after shutting down the engine
- Whistling at idle speed
- Whirring / rattling from the area of the coolant line from 2000 rpm
- Clicking sound after the engine stop
- Clattering noise from engine compartment after the wake up of the Digital Motor Electronics

Vehicle communication: Yes

ISTA path:

Activities / Information search / Non-electrical diagnosis / 01 drive / 01 noise / engine noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM1104_00492 - Operating fluids leak from engine

Brief description of the test module for non-electrical diagnosis:

Engine operating fluid leak

Applies to:

Engine:B57

Content (excerpt):

- Oil leak from the blow-by pipe (oil residue in the area of the cylinder head gasket)

Vehicle communication: Yes

ISTA path:

Activities / Information search / Non-electrical diagnosis / 01 drive / 04 fluid leaks / engine leaks

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM3102_00595 - Front axle malfunction

Brief description of the test module for non-electrical diagnosis:

Front axle malfunction

Applies to:

G01, G02, G05, G06, G07, G11, G12, G14, G15, G16, G20, G21, G30, G31, G32, G38

Content (excerpt):

- Vehicle veers

Vehicle communication: Yes

ISTA path:

Activities / Information search / NED / 02 Chassis / 02 Malfunction / Front axle malfunction

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM3202_00241 - Steering malfunction - steering wheel vibration, vibration

Brief description of the test module for non-electrical diagnosis:

Steering malfunction â€“ steering wheel vibration, vibration

Applies to:

E89, F01, F02, F03, F04, F06, F07, F10, F11, F12, F13, F15, F16, F18, F20, F21, F22, F23, F25, F26, F30, F31, F32, F33, F34, F35, F36, G01, G02, G05, G07, G08, G11, G12, G30, G31, G32

Market: All (except USA)

Content (excerpt):

- Oscillations and vibrations in the area of the steering wheel

Vehicle communication: No

ISTA path:

Activities / Information search / NED / 02 Chassis / 02 Malfunction / Steering malfunction - steering wheel shake, vibration

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM3301_90574 - Rear axle differential noise

Brief description of the test module for non-electrical diagnosis:

Noise from rear axle differential

Applies to:

BMW, RR

Content (excerpt):

- Metallic clacking noise when driving off
- Knocking noise during load reversal
- Groaning noise in the 1st gear, 2nd gear and reverse gear
- Permanent grinding noise
- Howling noise from 160 km/h when loaded

Vehicle communication: Yes

ISTA path:

Activities / Information search / Non-electrical diagnosis / 01 drive / 01 noise / rear axle differential noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM3401_00494 - Brake noise

Brief description of the test module for non-electrical diagnosis:

Brakes, noise

Applies to:

G01, G02, G05, G07, G08, G11, G12, G14, G15, G16, G20, G29, G30, G31, G32, G38

Content (excerpt):

- Squeak
- Ticktock noise (for example, after a change in the direction of travel)
- Rattling
- Groaning noise (for example, at a stop at traffic lights)
- Strumming

Vehicle communication: No

ISTA path:

Activities / Information search / NED / 02 Chassis / 01 Noise / Brake noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM5101_00594 Noise in the operating area

Brief description of the test module for non-electrical diagnosis:

Cockpit noise

Applies to:

G05, G06, G07, F95, F96

Content (excerpt):

- Noise from the area around the upper side instrument panel
- Noises in the area of the driver's side
- Noises in the area of the centre instrument panel
- Noises from the passenger's side area
- Noise from area of centre console
- Noises from the area of the interior mirror, sun visor, FZD

Vehicle communication: Yes

ISTA path:

Activities / Information search / NED / 03 Body / 01 Noise / Cockpit Noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM5102_00474 - Door lock malfunction

Brief description of the test module for non-electrical diagnosis:

Door lock malfunction

Applies to:

G01, G02, G05, G06, G07, G08, G11, G12, G14, G15, G16, G20, G29, G30, G31, G32, G38, F90, F97, F98

Content (excerpt):

- Problems when locking / unlocking
- Problems when opening / closing
- Door opens independently
- Problems with the outside door handle

Vehicle communication: Yes

ISTA path:

Activities / Information search / NED / 03 Body / 02 Malfunction / Door lock malfunction

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM5205_00469 - Leather, optical complaint

Brief description of the test module for non-electrical diagnosis:

Complaint regarding the visual appearance of the leather

Applies to:

BMW, BMWi

Market: Germany

Content (excerpt):

- Wrinkled leather upholstery
- Leather upholstery creasing
- Leather upholstery, major wear
- Leather upholstery crack

Vehicle communication: No

ISTA path:

Activities / Information search / NED / 03 Body / 05 Optical complaints / Optical complaint regarding front seats

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM5401_00523 - Panorama roof, noise

Brief description of the test module for non-electrical diagnosis:

Noise from the panorama glass roof

Applies to:

F95 ,F96 ,F97 ,F98 ,G01 ,G02 ,G05 ,G06 ,G07 ,G08

Content (excerpt):

- Wind noises in the area of the panorama roof in the vent position
- Wind noise when the panorama glass roof is closed
- Wind noises are regardless of the glass panel position
- Metallic clattering noise / scraping / vibration when moving sliding headliner

Vehicle communication: Yes

ISTA path:

Activities / Information search / NED / 03 Body / 01 Noise / Panorama roof noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM5403_00512 - Panorama glass roof water ingress

Brief description of the test module for non-electrical diagnosis:

Panorama glass roof, water ingress

Applies to:

G01, G02, G05, G07, G08, F95, F96, F97, F98

Content (excerpt):

- Water ingress in the area of the glass slide/tilt roof panel
- Moisture in the front footwell, luggage compartment or in the headlining

Vehicle communication: No

ISTA path:

Activities / Information search / NED / 03 Body / 03 Water ingress / Panorama roof water ingress

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM6303_90577 - Headlight fogging

Brief description of the test module for non-electrical diagnosis:

Headlight fogging

Applies to:

All BMWs and Mini

without F25

Content (excerpt):

- Headlight misted over
- Reflection of light source on the headlight lens

Vehicle communication: No

ISTA path:

Activities / Information search / Function structure / 05 Non-electrical diagnosis - NED / 03 Body / 05 Optical complaint / Front light combination, optical complaint

Important information:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM6401_00496 - Heating and air conditioning system noise

Brief description of the test module for non-electrical diagnosis:

Noise in the Integrated automatic heating/air conditioning system (IHKA)

Applies to:

G01, G02, G05, G06, G07, G08, F97, F98

Content (excerpt):

- Noise when the fan is running
- Noise when changing the settings (e.g. air distribution, fan setting)
- Noise when the engine is running, with and without air conditioning operation

Vehicle communication: Yes

ISTA path:

Activities / Information search / NED / 03 Body / 01 Noise / Heating and air-conditioning system noise

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.

AM6402_00591 - Air conditioning malfunction

Brief description of the test module for non-electrical diagnosis:

Air conditioning, malfunction

Applies to:

E70, E71, E72, E81, E82, E84, E87, E88, E89, E90, E91, E92, E93, F2x, F3x, F8x, F15, F16, F25, F26, F85, F86

Content (excerpt):

- Escape of warm air when air conditioning set to cool / air conditioning failure
- Significant reduction of air flow
- Air conditioning system functions without difficulty again 10 minutes after switching the vehicle off

Vehicle communication: Yes

ISTA path:

Activities / Information search / NED / 03 Body / 02 Malfunction / Air conditioning malfunction

Important note:

The fault patterns in the test module depend to some extent on the production period, optional equipment, motorisation and other features. It is therefore possible that not all content or different content to that described above may be displayed for different vehicles.