Common Problems

1. I can only see some controllers, but not all on the web site’s list.

Each model has a specific coverage list that enumerates to the ScanTool. If you don’t see the system in the Vehicle Selection | System list, then the controller is not equipped or optional on your vehicle. For this reason, you can’t “fake” a model or model year to get coverage.

2. I am connected to a DDL1 Nissan with the ProLine and the 14pin adaptor but I can get Airbag, ABS, but limited Enhanced Powertrain.

Our intent with the DDL1 support was to give trouble code retrieval for engine, transmission, body, and chassis controllers. We do have live data and bi-directional controls for ABS, transmission, and powertrain. However, we have three of the four live data tables for the powertrain. In case that the Enhanced Powertrain is listed and no live data or bi-directional controls are reported with the system selection, we do not have the table for that model.

3. My vehicle doesn’t show Ignition Timing Advance in the Test OnBoard Systems tab. Does my vehicle support this feature?

Sorry, no. When the connection is established with your vehicle, the feature support is transmitted from your vehicle. If you don’t see specific support in the ScanTool’s feature lists, then your vehicle doesn’t support it.

4. I am connected to a 2008 Nissan and the ScanTool won’t auto detect the vehicle interface type. What settings will make this vehicle connect?

Nissan has a compliance issue with some ‘08+ models in that they require an incorrect addressing method to complete a connection. To correct this, press F4 and the Vehicle | Communication Configuration screen will appear. Change the Initialization Type to CAN Physical Addressing. After you have completed the service, restore your previous setting as this is only to resolve this Nissan-specific compliance issue.

5. Attempting the Idle Air Volume Learn, but it continues to fail. What am I doing wrong?

In some cases this test fails on the vehicle-side regardless of proper operation. Nissan does have a bulletin on resolving this. Here is a quick and effective work-around. Leave the vehicle running, disconnect the MAF until the MIL illuminates, and reconnect the MAF. Then subsequently clear the trouble codes reported as a result of the MAF disconnect. At this point, retry your Idle Air Volume Learn. If this doesn’t work, please refer to the Nissan bulletin for complete details.

Enhanced Nissan User Guide

Check Your Package Contents

Your AutoEnginuity Nissan package should contain:

- 1 x 1ft 16pin - 14pin Nissan / Infiniti DDL1 adaptor cable

NOTE: If any of the above items are missing, please contact your reseller.

Before Getting Started

Enhanced Nissan will allow you to access Nissan and Infiniti systems not available with generic OBD-II. The enhanced Nissan option is an add-on to the AutoEnginuity ScanTool. To offer this support for the older pre-’00 models, the enhanced Nissan option utilizes a proprietary adaptor cable. Check to make sure that your ScanTool is already properly installed and that the enhanced option(s) are activated. Please see your ScanTool User Guide for instructions if necessary.

Connecting to the Vehicle

WARNING: DO NOT USE A POWER INVERTER WITHOUT AN "ISOLATED GROUND" WITH ANY USB PRODUCT CONNECTED TO YOUR VEHICLE. A GROUND LOOP MAY OCCUR.

1. Start the ScanTool software.
2. Connect the ProLine or OBD-II connector to your computing device.
3. Connect the ProLine or OBD-II connector to the vehicle’s DLC. (See your ScanTool User Guide if you need help finding the DLC location.)
   - For vehicles ‘96 - ‘99, locate the rectangular 14pin adaptor. Place the 14pin adaptor cable between the vehicle’s DDL1 connector and the ProLine. The ScanTool software by default tests the vehicle for OBDII protocols. This will need to be disabled for a DDL1 connection to complete. To do this, select
In some cases, your vehicle will require at least one sensor to be viewed for an actuation to function properly. The ScanTool software will typically report this error condition by stating:

“Actuation requires a live data sensor to be selected to operate. ...”

Do not confuse the above requirement with operational conditions of the vehicle to properly operate an actuation. In this latter case, the software will display a different message.

WARNING: DO NOT ACTUATE ANY COMPONENT OR RUN ANY TEST WITHOUT FOLLOWING NISSAN’S DOCUMENTED PROCEDURES. AUTOENGINUITY IS NOT LIABLE FOR THE IMPROPER ACTUATION OF COMPONENTS OR TESTS.

Operation Instructions

Enhanced Nissan vehicles operate similarly to other makes in the ScanTool except for a few notable differences. The following will try and explain these differences and how they work.

System Selection

Nissan vehicles enumerate supported systems differently than other makes. When you complete a connection to a pre-’05 Nissan-family vehicle, they will enumerate the coverage supported by the vehicle. Most car makers provide this in tables that scan tools can select from during the connection. A network test is then performed to verify the controller is equipped on the vehicle before completing the connection. With Nissan, this is done each time a connection is started. This will account for a delay in the vehicle model, year, and system selection. However, ‘05+ vehicles will have those tables in the ScanTool software, so the connection will follow traditional methods.

Actuations

To reset adaptations or actuate a solenoid, use the Actuation window. This dockable window is normally available at the bottom of the ScanTool screen as a tab. Nissan actuations typically are only toggle states; meaning once you select them, they will actuate and the check box will be deselected. Most actuations require the vehicle to be in a certain state to operate. You may see instructions for an actuation on the far right.

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Work Support Functions

The Work Support Functions of Nissan can be found under the Test OnBoard Systems of the ScanTool tabs. Work Support functions are both system tests and permanent configuration functions.

Work Support functions are selectively supported by different vehicle models. When your vehicle connects, it enumerates its coverage to the ScanTool. Each function will have its own operating instructions so it’s important that you follow the detailed descriptions from both your vehicle service guide and the software before proceeding.

Ignition Timing Adjustment

You can advance or retard your vehicle’s ignition by as much as 2 degrees with this function. Each time this function begins your ignition is set to zero. This function requires that the vehicle be in a correct operating state before beginning. Nissan has set these guidelines up in their service guides specifically for each vehicle model. Generally, you only require the vehicle in a closed fuel loop and no trouble codes reporting.

To begin, select the function from the drop-down list of Tests at Test OnBoard Systems tab. On the right, buttons will appear that you will be required to operate the test. After reading the instructions and verifying the vehicle requirements are met, select Initiate to begin the process.

As stated above the vehicle will report zero degrees. By selecting the (>>) and (<<) arrow buttons we can advance or retard the timing. Once the proper timing correction is achieved, click Done. The ScanTool will now write the value into the ECM as the new permanent ignition correction value.