



# How to Easily Test an Ignition Module

By Loyale 2.7 Turbo, June 23, 2012 in Engine Electrical

Loyale 2.7 Turbo Loyale Hitachi Nippon Denso Distributor JesZeK Ignition Module EA82

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The Mighty "BumbleBeast"

Posted June 23, 2012 (edited)

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Roatán, Honduras.

The **Ignition Module** is the Electronic Part that Substituted the Points inside the Distributor; it usually consist in two parts: One Pick up the Signal and the other sends the Pulses to the Ignition Coil.

How you Test an Ignition Module?

This Test was Done with the **Nippon Denso** Distributor, from a Carbureted EA82 Subaru Engine, from the 2WD version; but this test is pretty Standard.

This is the **Nippon Denso** Distributor, without its Cap, so you can see its Interior:

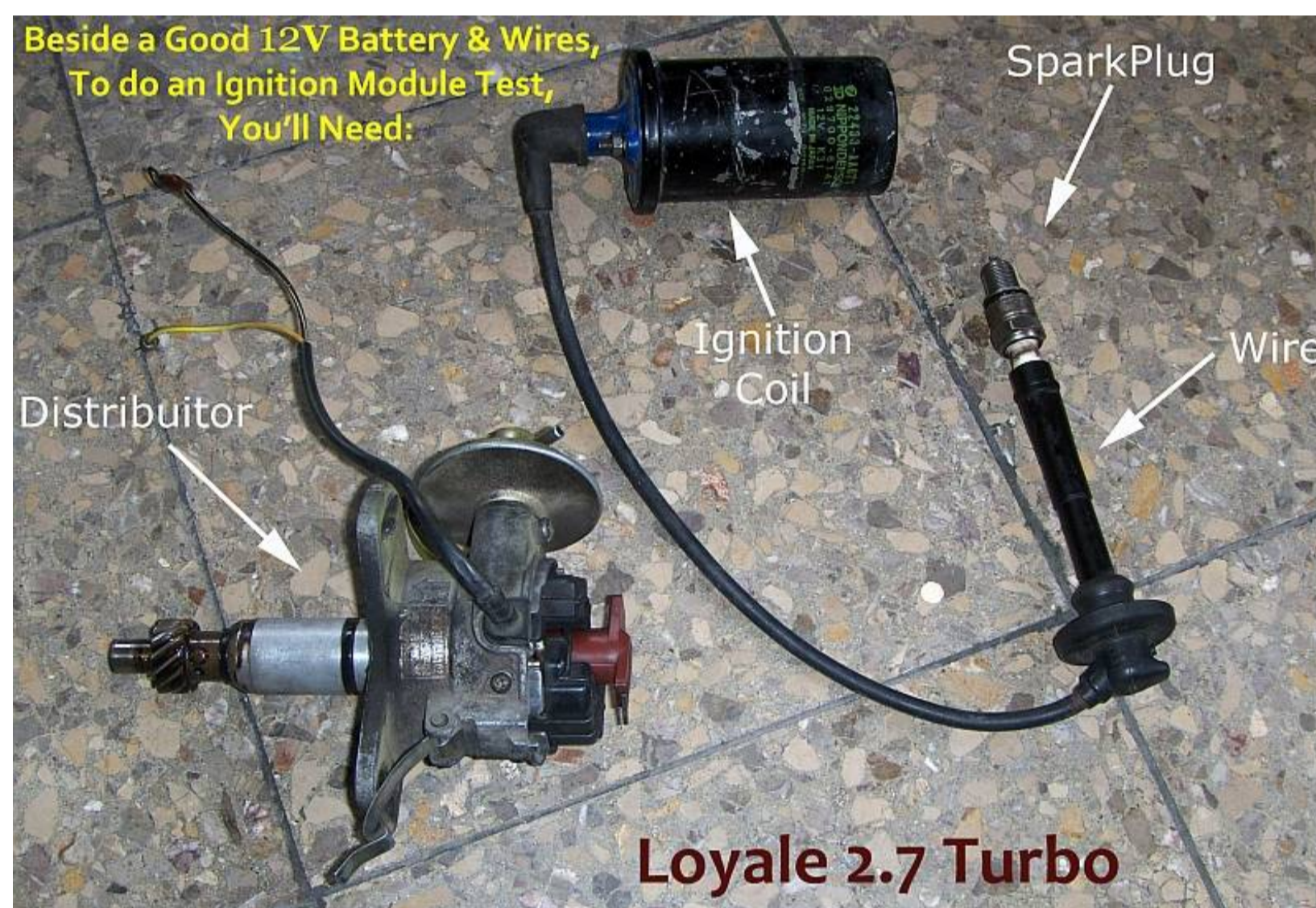


The Red Part is the Rotor, while the Two Black plastic covers under it, hides the Two Parts that conforms the Ignition Module, they only have two Wires Between them and other two wires that goes outside from one of them, to the Ignition Coil.



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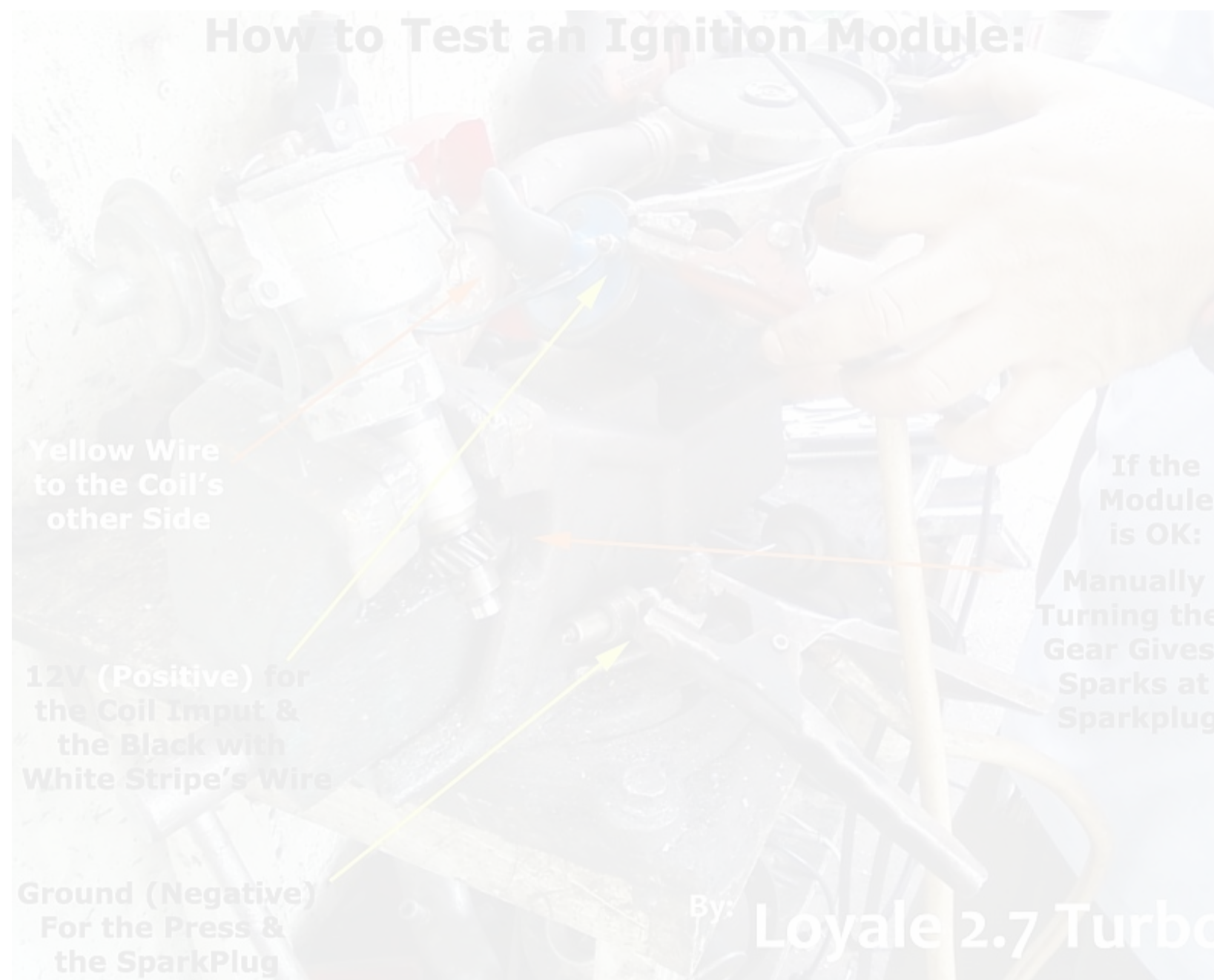
**To do the Test, You'll Need:**



- A Good 12V Battery and Jumper Wires to use its Power.
- The Distributor with its Rotor & Ignition Module inside.
- The Ignition Coil.
- A Sparkplug's Wire.
- A Sparkplug.

The Distributor has two Wires that comes from the Ignition Module, one is Black with White Stripe, this is the Positive (+) while the Yellow one is the Ground (-) or Negative one.

**The Easy Test Procedure goes as Follows:**



If you Turn Manually the Distributor's Gear under it, Two things Might Happens:

- ▶ Sparks on the Sparkplug = Means a *Good* Ignition Module.
- ▶ No Sparks on the Sparkplug = Means a *Dead* Ignition Module.

But you MUST Double Check that you have done Right the Connections.

I Hope this can Help.

Kind Regards.

Edited November 4, 2014 by Loyale 2.7 Turbo

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As far as I Know, the **carbureted** EA82 Engines on the **2WD** (front wheel drive Only) models, came with the **Nippon Denso** Distributor, while the **carbureted** EA82 engines on the **4WD** Models, came with the **Hitachi** Distributor.

The **Nippon Denso** Distributor on the 2WD Models, has a Faster acceleration **advance** curve, than the Hitachi Distributor on the 4WD Models.

Both distributor's Ignition Modules are **very different** from each other, the Hitachi distributor has a Single piece Module, while the Nippon Denso distributor has a two parts' module, it has Two Wires Between them and Two Wires Goin' out from them, out from the Distributor to the Ignition Coil.

For the **Nippon Denso** Distributor, the Ignition Module has the Followin' part Numbers:

- ▶ The Nippon Denso Part Number is: **1313000500**
- ▶ The Subaru Part Number is: **22183 AA040**

This is How it Looks:



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Aftermarket part Numbers for the Same Ignition Module, are:

- ▶ Transpo (Brand): NM 500
- ▶ Mobiletron (Brand): IGT 010
- ▶ GoodWay (Brand): GW-M500
- ▶ Beck Arnley (brand): 180-0245

This is a Picture of my Brand New "**Beck Arnley**" Ignition Module,  
just out of its Box as it Came from RockAuto:



Kind Regards.

Edited April 11, 2013 by Loyale 2.7 Turbo  
to add more info

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