

NINTENDO DS™

DIAGNOSE

INSTRUCTION BOOKLET

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Foreword by Spinal

A while ago, I created a simple button tester so I could test the keyboard layout of a DS emulator.

After sharing it with the DS community, some forum users had suggested that I add a couple of features and turn the simple button tester into a fully fledged diagnosis tool. Soon more and more people suggested feature that DiagnoSe should have and some of those features have been added. I have had learned a lot from coding DiganoSe and have had fun doing it. I hope that some people find use for this application.

Contact – spinal_cord@yahoo.com

Featured tests

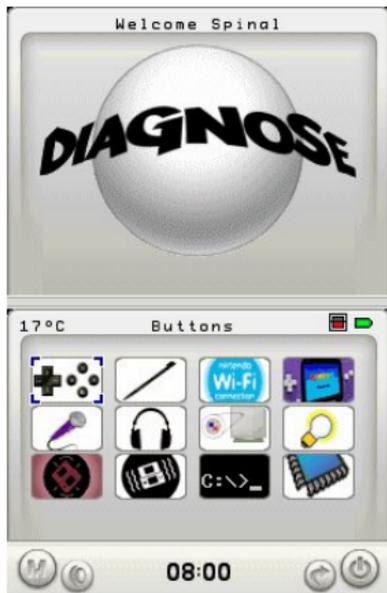
Diagnose can test the following features of the Nintendo DS system.

- Direction Pad and buttons
- Touch screen accuracy
- Wifi settings
- Microphone
- Speakers
- Screen lights
- Motion card/pak (sold separately)
- Rumble pak (sold separately)
- DLDI FAT
- SRAM

Other features of DiagnoSe include

- Boot GBA game
- Fix stuck pixels
- Reset to card menu (supported cards only)
- Power off DS
- Set screen brightness (DS Lite only, not saved in firmware)
- Battery monitor
- Temperature monitor
- GBA screen select (not saved in firmware)

The menu



The main menu is controlled by either tapping the stylus twice on icons, or by the +direction pad and A button. During any of the tests.

The bar at the bottom of the screen has four buttons they do the following
From left to right

-  Return to main menu
-  Change the screen brightness (DS Lite only)
-  Reboot DS to Flash card menu (Supported cards only)
-  Power off DS

At the top left of the menu screen you will see the internal temperature of the DS in °C.

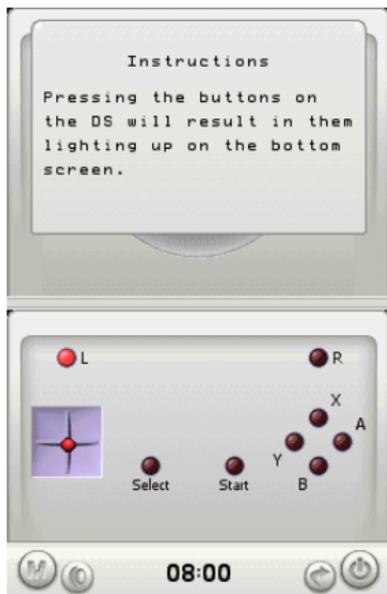
At the top Right you will see two icons.

 GBA screen select. This icon shows (in red) the screen that will be used in GBA mode. Tapping this icon will switch between the two screens.

 Battery indicator. This icon will change from green to red when the battery is low.

Button test

This test will enable you to check that all of the DS buttons are working correctly. When pressing one of the DS buttons, the corresponding button on the screen will light up. The direction pad is also represented on the screen and will indicate which direction you press.



Stylus test



This test will allow you to check if your touch screen needs re-calibrated. On the touch screen there will be a gray grid, tracing the darker lines with the stylus will enable you to see how accurate your touch screen is. You may need to calibrate your touch screen in the Nintendo DS firmware.

WiFi test



To test your WiFi settings, DiagnoSe will first attempt to contact your WiFi Access Point, and if successful, will attempt to access the Internet. No information about your DS is sent anywhere; DiagnoSe will only attempt to download a small amount of a website to check that the Internet has been accessed.

Boot GBA

This option will attempt to boot the GBA cart in slot-2. You cannot load DS code in this way.



Microphone test

Instructions

Make some sounds into the microphone and the indicator will show how loud it is.

This test allows you to check if your microphone is working, by showing you an on-screen microphone volume meter. Making a loud sound into the microphone should cause the green indicator to rise.



Speaker test



To test your DS speakers, press Up, Left or Right on the Direction pad. Pressing Left or Right, DiagnoSe will speak the words 'Left' or 'Right' through the corresponding speaker. Pressing UP, will cause the DS to say 'Both' through both speakers.

Pixel fixer



Sometimes on LCD screens, one of the pixels does not change and will remain one colour when ever the screen is switched on. This is known as a 'Stuck Pixel'. DiagnoSe attempts to repair these stuck pixels by cycling the power though that pixel in the hope of coaxing it into working again. This is not always possible however and Nintendo will usually replace a DS with stuck pixels under warranty.

When you start the pixel fixer, you will see a flashing square on the screen. Simply move this square with the stylus to where your stuck pixel is and leave it there for as long as you can. If you worry about the flashing affecting other areas of the screen, Pressing the R or L shoulder buttons will switch off/on the flashing square on each screen. Pressing SELECT will change the flashing square into a single flashing pixel which you can move more precisely with the Direction pad.

Screen lights

Instructions

The touch screen should be switching between light and dark. To test the top screen, press Select.

This test will simple switch on and off the screen lights once a second. Pressing SELECT will switch between the top and bottom screen. When you press the (M) button both lights will switch on.

Motion test



This test will test all of the functions of the NDSMotion card. These functions include tilting

in all directions, rotating around the center of the DS and vertical motion.

For more information on the NDSMotion card, visit <http://www.ndsmotion.com/>

Rumble test



This test allows you test if your Rumble Pak is functioning. Holding the A button will cause the Rumble Pak to vibrate.

The Nintendo DS Rumble Pak is bundled with some Nintendo DS games and sold separately through

<http://store.nintendo.com>

DLDI FAT



This test will show you if your DLDI compatible card is working correctly by listing some of your files and folders on the screen.

For information about DLDI, compatible cards and drivers please visit

<http://chishm.drunkencoders.com/dldi/>

SRAM



This will test if the SRAM on your GBA flash cart is functioning correctly. For this test you

will be asked if you wish to carry out the test, as it will completely destroy any save data on your cart.

Reset to cart menu



It is possible for some flash cards to return to their main menu. tapping the reset button on

the menu bar will attempt to reset the flash card. If your card is not compatible you will be

returned to the DiagnoSe menu.

Power Off

Tapping the power button on the menu bar, will ask you if you want to power down the DS. Tapping

Yes will switch off the DS, tapping No will return you to the previous screen.



Credits

The following people have contributed to the completion of DiagnoSe, some directly some indirectly.

Dizi
Chishm
Lick
Mollusk
Dr Neo
Jayenkay
Ritchie
Cearn
LiraNuna
TheYak
sumiguchi
Abrexes
Uwe