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## How do you read diagnostic codes from 2.5td ?

by [oh4ndu](#) » Tue Nov 10, 2009 8:47 pm

Hello all.

I have some idle run problems in my Xm, and abs warning light is on all the time. Of course the abs does not work either.

I found this pinout from internet: <http://oto.to/schematy/ecupins/7.png>

Then i made the blink code reader from led, resistor and switch. Only one ecu replied from pin E2. Most likely it was hydractive ecu.

But i need codes from engine ecu and abs. I don't like to try all pins because i'm afraid to break something with wrong connections.

Does anyone know the real pinout of the 2.5 td:s diagnostics socket? I believe that the pinout changes with the car model.

The ORGA number is 7150

-Jari-

-96 XM Break Exclusive 2.5 Td, Metallic silver, RP 7150

-98 Xantia Break Exclusive 1.8 16V, Metallic green

-00 Xantia Break Exclusive 1.8 16V, Metallic Burgundy red

[oh4ndu](#)

Can find the S1 radio

**Posts:** 10

**Joined:** Tue Nov 10, 2009 9:09 am

[1996 Citroen XM](#)

**Reputation point:** 0



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## Re: How do you read diagnostic codes from 2.5td ?

by [xmexclusive](#) » Tue Nov 10, 2009 10:09 pm

Hi oh4ndu

Welcome to the site.

That diagnostic socket listing of pin function is correct for all Mk2 XM's.

Not all models will have ECU's for all the functions. That might be why you think the models are different.

On a 2.5TD you should see data from Engine ECU, Suspension ECU and ABS ECU.

It can happen that faults, particularly power supply ones can prevent that ECU being read.

Most ECUs have 3 separate power feeds from different fuses with all needed in good order to read the ECU.

John

[xmexclusive](#)

Global Moderator

**Posts:** 4581

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**Reputation point:** 0



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### [Re: How do you read diagnostic codes from 2.5td ?](#)

by [oh4ndu](#) » Wed Nov 11, 2009 11:02 pm

Hello!

And thanks for welcoming to you too.

I will check the fuses tomorrow.

When i tried to read out fault codes (with this simple led circuit:

<http://psa.dfmk.hu/~phoenix/XMCD1/xmfiles/diags.pdf>), i wondered why the led glowed (not bright light but a dim glow) when the circuit was connected to a diagnostic pins. I took the 12 volt from the cigarette lighter. Later i realised that the ecus of course use regulated voltage. That means their operating voltage must be lower than battery voltage. And when i connect this circuit to a diagnostic pin, i actually feed a higher voltage to a diagnostic pin than the ecu's output circuits operating voltage is. That might be a reason why i could'nt read all ecus. Maybe i should add an adjustable voltage regulator to the circuit's 12V line, and drop the voltage to the point where the led stops glowing. Maybe it is not the answer, but cheap and easy to do so it is worth trying.

-96 XM Break Exclusive 2.5 Td, Metallic silver, RP 7150

-98 Xantia Break Exclusive 1.8 16V, Metallic green

-00 Xantia Break Exclusive 1.8 16V, Metallic Burgundy red

[oh4ndu](#)

Can find the S1 radio

**Posts:** 10

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### [Re: How do you read diagnostic codes from 2.5td ?](#)

by [rowanmoor](#) » Mon Nov 16, 2009 2:59 pm

One of the pins on the diagnostic socket is +12V another is gnd. I use those. I think they are 2 of the corner ones - but can't remember off hand. They work fine with the LED method.

Rowan

94M XM 2.5 TD VSX Estate RP 6430 Forest Green

[rowanmoor](#)

Knows how to use the parking brake

**Posts:** 169

**Joined:** Wed Apr 15, 2009 12:35 pm

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[1994 Citroen XM](#)

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### [Re: How do you read diagnostic codes from 2.5td ?](#)

by [DerekW](#) » Sun Nov 22, 2009 6:46 pm

I have just posted on the subject of publishing other peoples' ideas and this is a classic example. I think I have the information you need, but I don't know the author so can't give the necessary credit.

What the heck! This is what he/she wrote: Please note this is NOT my work!!!

"Series 2

I'm unsure from what, till what time the large 30 pins diagnostic connector is used. The connector is 3 pins wide and 10 pins long with the connector housing being brown. The pins are numbered 1,2,3 from top to bottom and A,B,C....,I,J from left to right.

Hydroactive diagnostics pin : E2

Engine diagnostics pin : C3

ABS diagnostics pin : E1

Airco diagnostics pin : F1

The following circuit can be used to read out the diagnostic codes. (Sorry, this will not print out, but see below)

In case the large 30 pins diagnostic connector is present only a wire to connect the diagnostic pin to ground is needed. The readout will work via the diagnostic lights on the dashboard. (In case it doesn't work, one can always revert back to the circuit described above.)

To start readout of the codes:

1. Connect the circuit above, with the switch opened.
2. Turn on ignition
3. Within 3 seconds close the switch for 3-5 seconds, and open it again
4. The start code 12 will appear. Blink, pause, blink,blink.
5. Press the switch again for 3-5 seconds, and open it again.
- 6a. Now the diagnostic codes will follow in case there is an error code stored.
- 6b. If no more codes are stored the end code 11 will appear. Blink, pause, blink.
- 7a repeat step 5 and 6 until all codes are read out
- 7b After the end code you can clear all codes.

To clear all stored error codes:

1. First read out all codes described above
2. After the end code, close the switch for exactly 15 seconds.
3. Open the switch again
4. Now all stored codes are cleared.

Alternatively you can erase all error codes by disconnecting the battery for 10 (or more) minutes. This will not only clear the codes, but also erase the 'learned' settings (eg for the engine) and refer back to factory default."

I hope I haven't upset too many people by printing this. The tester used involves a 12V input to a 680ohm resistor followed by an LED. After the LED there is a side input to ground (earth) via a switch. The combination then connects to the required pin on the diagnostic socket.

Derek

2000 V6 Exclusive, black. RP 8362

2004 C3 Exclusive Sensodrive,the wife's. She doesn't like it.

1995 ZX 1.8 auto, the latest replacement, she loves ZX's. Peace at last.

[DerekW](#)

Knows how to use the parking brake

**Posts:** 198

**Joined:** Wed Apr 15, 2009 4:34 pm

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**Reputation point:** 0



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### [Re: How do you read diagnostic codes from 2.5td ?](#)

by [SasoV6](#) » Wed Nov 24, 2010 9:33 am

Hi,

Does anybody know, how can I clear/erase fault codes on Series 1 (Hydractive ECU)?  
Erasing fault codes like descibed above (LED method) works fine on ABS end engine ECU  
but it seems that this is not working on Hydractive ECU. I can read them out but I am not able  
to clear them out.  
Thanks.

Sašo

[SasoV6](#)

Knows how to use the parking brake

**Posts:** 74

**Joined:** Thu Sep 23, 2010 7:48 am

**Location:** Slovenia

**Reputation point:** 0



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### [Re: How do you read diagnostic codes from 2.5td ?](#)

by [robertmnorton](#) » Wed Nov 24, 2010 7:54 pm

Hi Saso, this doc may help if haven't it already.

robertm

Attachments

[ecutest.xls](#)

(74 KiB) Downloaded 111 times

[robertmnorton](#)

Could do a 2.1 headgasket

**Posts:** 1132

**Joined:** Fri May 01, 2009 11:07 pm

**Location:** Grantown-on-Spey

[2000 Citroen XM](#)

**Reputation point:** 0



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### [Re: How do you read diagnostic codes from 2.5td ?](#)

by [SasoV6](#) » Wed Nov 24, 2010 10:02 pm

Hi Robert,

Thank you, I already have this doc.

The problem is that I can not clear out stored Hydractive fault codes with closing the switch for 15sec.(or longer or even disconnecting battery for 24h).

This works fine on ABS and engine ECU but not on Hydractive ECU.

The faults were fixed, I just want to clear them out. How can I do this?

Regards,

Sašo

[SasoV6](#)

Knows how to use the parking brake

**Posts:** 74

**Joined:** Thu Sep 23, 2010 7:48 am

**Location:** Slovenia

**Reputation point:** 0



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## [Re: How do you read diagnostic codes from 2.5td ?](#)

by [robertmnorton](#) » Fri Nov 26, 2010 7:30 pm

Hi Saso, as far as i'm aware simply disconnecting the battery for however long will not erase stored codes. They must be read first and then cleared by whatever diagnostic reader you have. It may be that the timing and sequence of read/clear may be the only reason.

robertm

[robertmnorton](#)

Could do a 2.1 headgasket

**Posts:** 1132

**Joined:** Fri May 01, 2009 11:07 pm

**Location:** Grantown-on-Spey

[2000 Citroen XM](#)

**Reputation point:** 0



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## [Re: How do you read diagnostic codes from 2.5td ?](#)

by [SasoV6](#) » Sun Nov 28, 2010 9:48 am

Hi Robert,

Problem solved!

What to do on XM series1 (ECU H1, H2, H2B and H3)? I didn't try it on Series 2 (H4)!

Led method as described above does not work for clearing fault codes from Hydractive ECU.

Disconnecting battery of course makes no difference. However it works fine on ABS and engine ECU.

In order to make it work even on Hydractive, few additional steps are needed.

1. Open the hood, open the drivers window, prepare Hydractive diagnostic pin (Blue), close all doors.
2. Wait until Electrovalve is NOT energised ( 30sec after door close)
3. Connect the switch
4. Ignition ON (throw the open window)
5. Read out Codes as described above
6. After the end Code (11), close the switch for 15 sec.

If you reed codes again after that, they will still be preasant.

7. Ignition OFF for few seconds (threw the open window)

8. Ignition ON again

9. Read the codes again ( Fault codes are cleard)

10. Ignition Off, disconnect the switch.

Yesterday I have cleard out stored fault codes from 3 ECUs (2 X H1, 1 X H3).

Regards,

Sašo

[SasoV6](#)

Knows how to use the parking brake

**Posts:** 74

**Joined:** Thu Sep 23, 2010 7:48 am

**Location:** Slovenia

**Reputation point:** 0



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## Quick Reply

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