

## Re: RS-232, No short No send?

**Source:** <http://sci.tech-archive.net/Archive/sci.electronics.design/2004-10/1972.html>

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**From:** Boki (*bokiteam\_at\_ms21.hinet.net*)

**Date:** 10/06/04

Date: Wed, 6 Oct 2004 23:54:43 +0800

Deaer Roger,

Yes, I connected pin.3(TXD) to oscilloscope signal and pin.1 connected to oscilloscope ground.(didn't swap lines) but there is no signal in oscilloscope. If I short pin.2 pin3, it works.

I am confusing why it didn't send out signals when pin.2 pin.3 are not short. ( I floting all other pins.,except signal and ground.)

Best regards,

Boki.

"Roger Hamlett" <rogerspamignored@ttelmah.demon.co.uk>

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>

> "boki" <bokiteam@ms21.hinet.net> wrote in message

> news:4c3c095a.0410060345.7b4ea413@posting.google.com...

>> Dear All,

>> I am trying to scan RS232 output (TX) signal by an

>> oscilloscope.

>>

>> When I short my RS232 output pin.2(TX) & pin.3(RX), it function work (

>> sometimes lost some words, at least it sent signals).

>>

>> When I connect RS-232 TX to oscilloscope, connect oscilloscope ground

>> to pin.1(Earth ground) or pin.7(GND logical ground), oscilloscope both

>> never has signals. If I 'short' RS-232 pin.2(TX) and pin.3(RX), it

>> works!

>>

>> Why?

>>

>>

>> Thank you very much for your answer.

>>

>> Best regards,

>> Boki.

> Because you are using the wrong pin?...

> RS232 equipment, can either be 'data terminal' equipment (things like

> PC's), or 'data communication' equipment (Modems etc.). These have the

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- > receive data, and transmit data pins swapped over, as well as the
- > handshake lines. Hence a piece of DC equipment, could connect directly to
- > a piece of DT equipment, without needing a 'null modem' (which swaps the
- > pins over). Connecting two DTE units together, required either a real
- > modem, or a null modem to give the crossover. I'd suspect the kit you are
- > trying has the data lines swapped, relative to what you expect, and that
- > TXD, is on pin 3.
- >
- > *Best Wishes*
- >
- >