



# Positive grounded dc system

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Negative 48VDC (-48V), or positive grounded, was selected for use by Bell when it was found to be superior to positive voltage. It prevents electrochemical reactions from destroying buried copper cables and...

But unlike traditional 12 and 24 volt systems which have the minus (-) side of the battery connected to ground (i.e. called negative ground systems), telecom batteries have the plus (+) side of the battery connected...

No shortage of questions "Is my car positive or negative ground?" Confusing because The industry was never consistent. Model T vs A was swapped.

A Dodge Brothers post I found said they were different north or south of the Canadian border for the same year.

The manufacturers did what they did, but is there an engineering reason?

Electrons flow from negative to positive....but does one ground or another; give more amps? Charge easier? Give a hotter spark?

Voltage certainly affects amperage draw and wire size. But Is there any science or performance reason why they would select one ground or the other?

However, manufacturers often make their products just different enough to force their customers to buy parts only from the OEM.

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You are right on, maybe, spark fires easier (less voltage required) when the spark plug center tip fires to the larger "ground" electrode. So, ignition systems (well, that I know of) had the center electrode be negative with respect to the shell of the plug, until HEI came along with enough volts to overcome that issue and now Buick has sold waste spark engines [where a pair of plugs/cylinders fire together so one is reverse polarity of the other], (along with other manufacturers) for over 30 years.

That means the center tip of the spark plug was negative with respect to the threaded part, i.e. positive ground. Now, you can have that polarity stay the same and change the primary polarity, but I guess some manufacturers liked all the circuits to have the same polarity and made the primary (battery side) positive ground.



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Makes no sense from an electron"s view. And not my experience with my vehicles.

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