
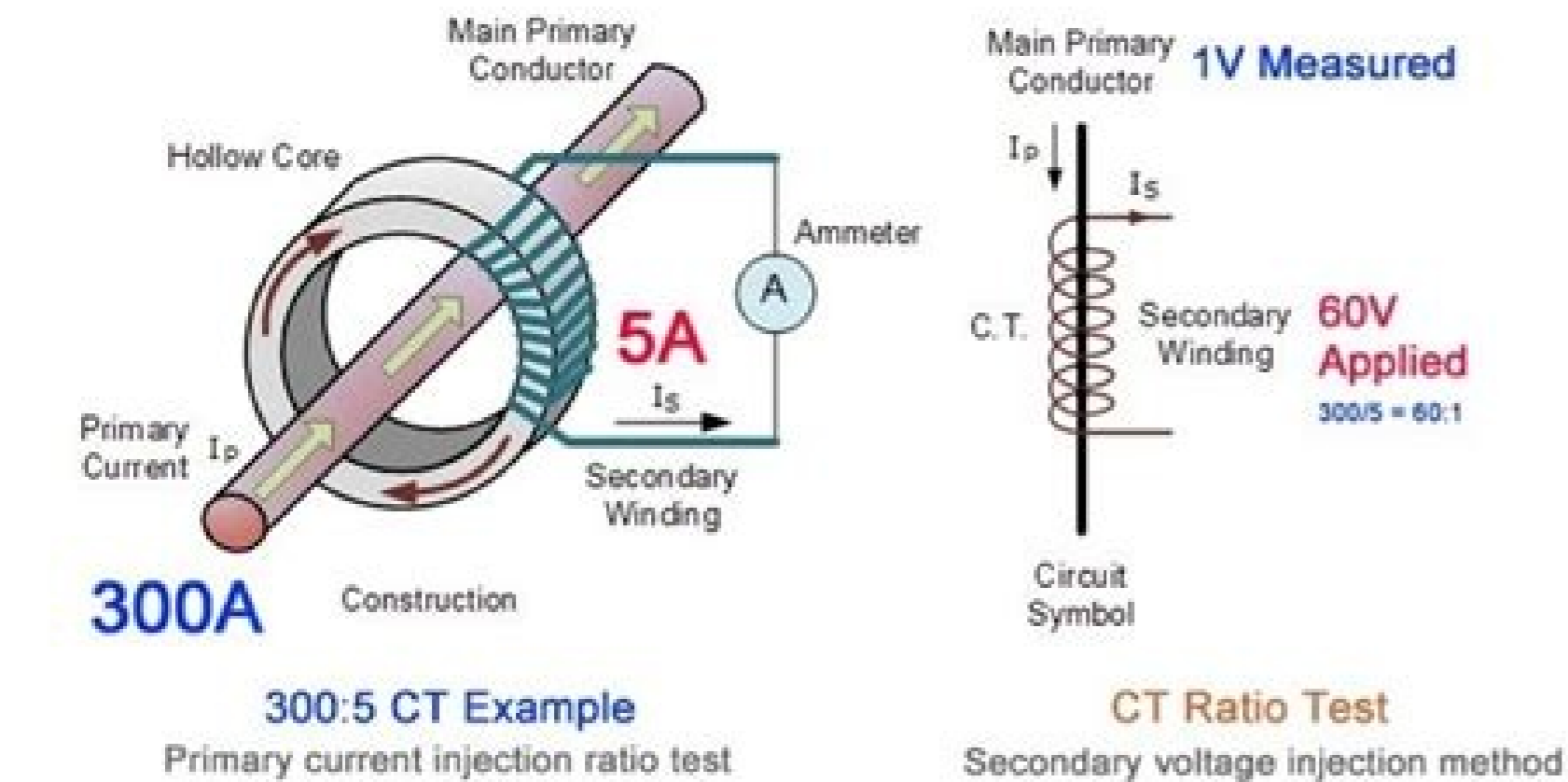
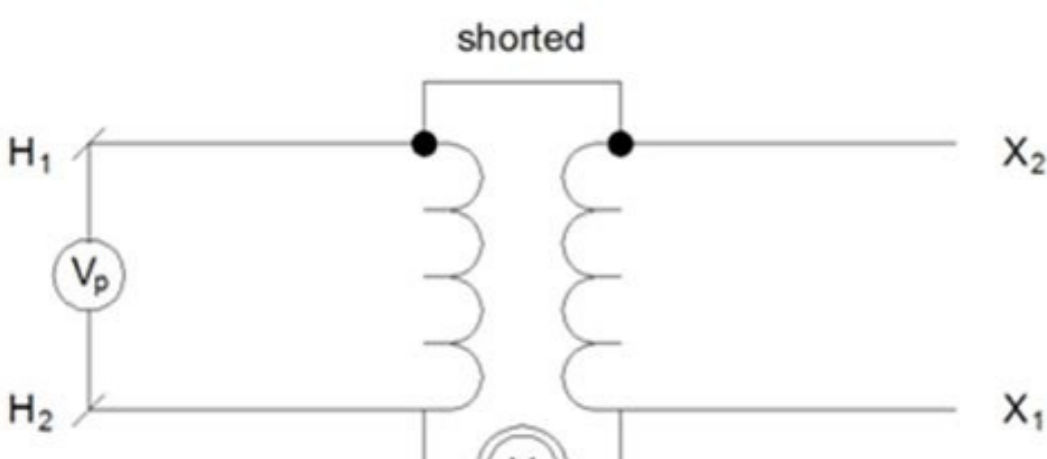
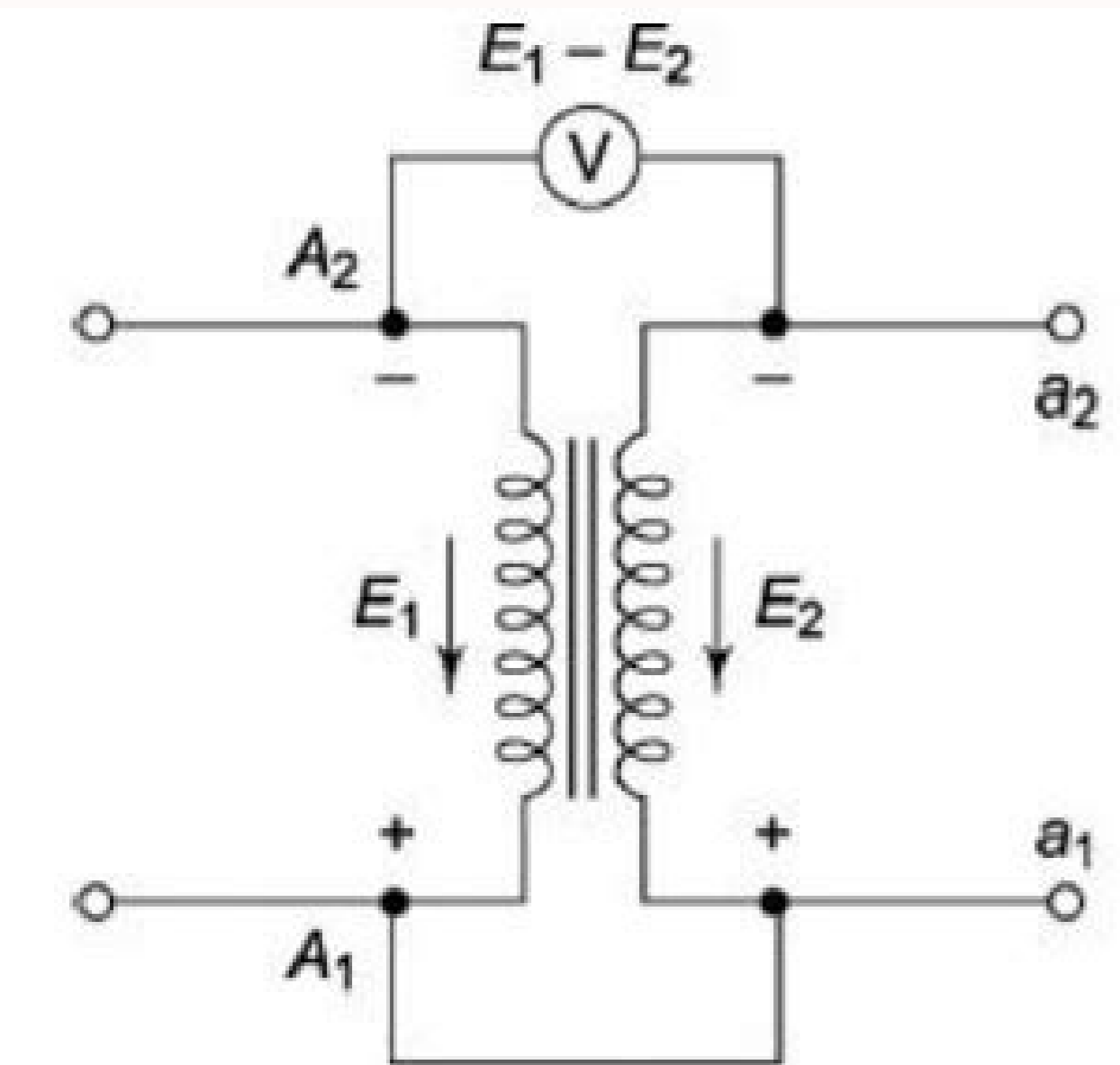
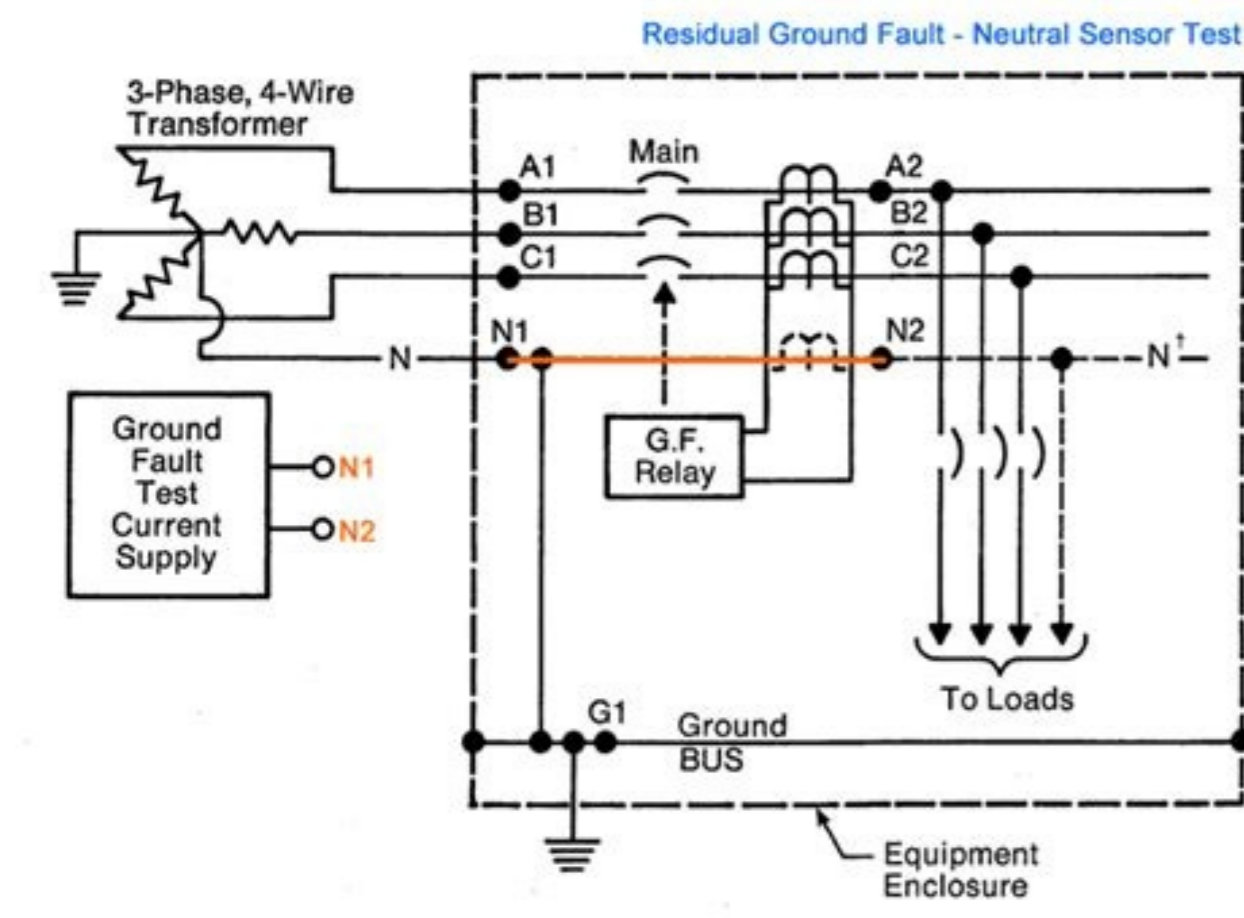
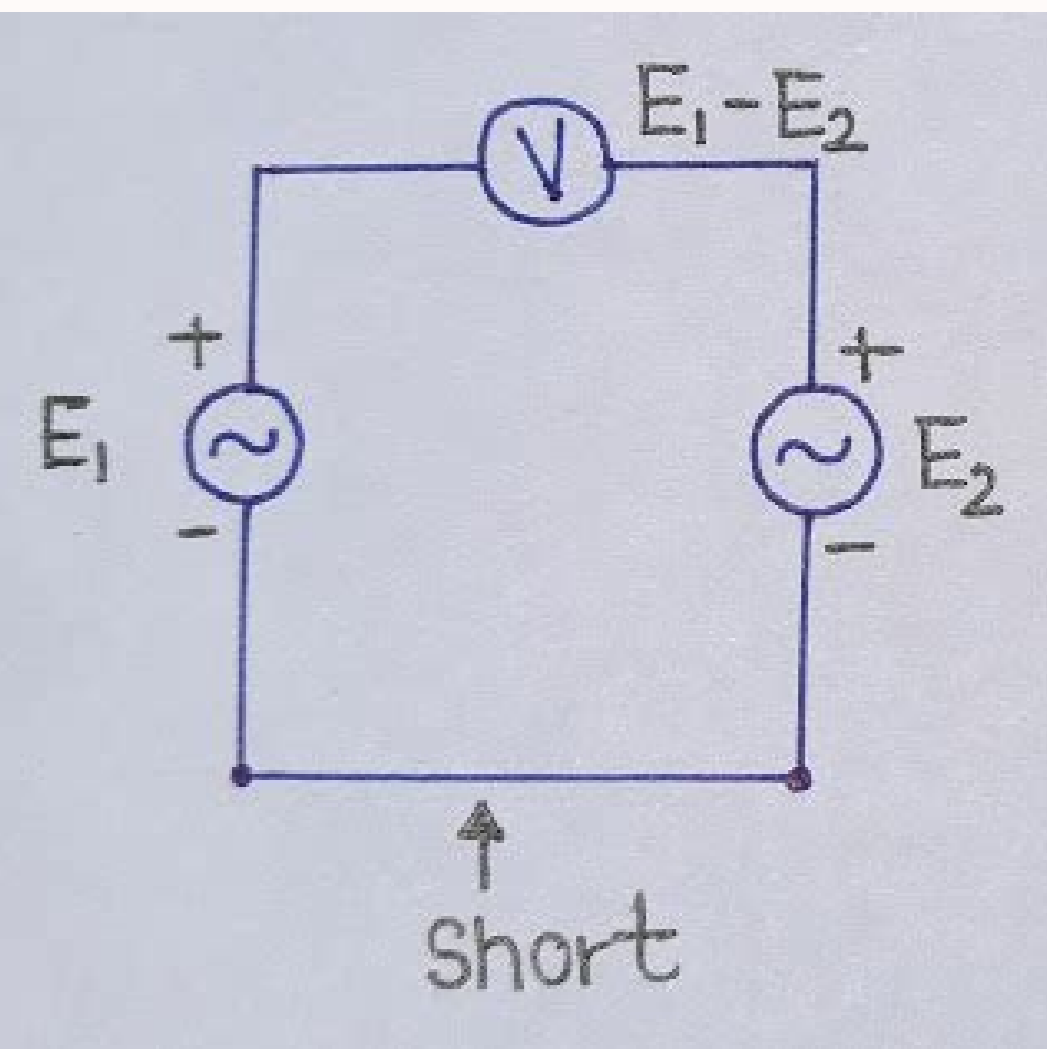


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# Polarity check voltage transformer



Voltage transformer polarity check. How to check voltage polarity.

In theory, electrons flow from the negative pole to the positive pole. This is a logical question for which the answer has been shrouded in mystery. Conversely, if the transformer polarity is additive, the X2 terminal is on the left and the X1 terminal is on the right. When only one lead of the high-voltage winding is brought out (the other being connected to the tank internally), it shall be designated as H1. Understanding polarity is essential to properly paralleling single-phase transformers and connecting instrument transformers (current and potential) to metering devices and protective relays. The terminals of any winding whose leads are brought out of the case shall be numbered 1,2,3,4, etc., the lowest and highest numbers marking the first winding and the intermediate numbers marking portions or taps. When the kVA and voltage values were extended, a decision was made to switch to subtractive polarity. A WHY TWO POLARITIES? As the industry became more familiar with transformers, it was determined that with a two-winding transformer, voltage stress occurs between the two windings as a result of the difference in potential (voltage) of the two windings. Eventually the industry recognized the need for clarification and standardization of various aspects of transformer manufacturing, including polarity. In 1918, the American Institute of Electrical Engineers and other organizations established standards for external transformer lead markings. Any time the current is flowing into one of the primary terminals, it will be flowing out of one of the secondary terminals. When the potential of primary terminal A1 is positive and the secondary terminal on the right also goes positive, current flow is A1 to A2 and a2 to a1. When the potential of primary terminal A1 is positive and the secondary terminal on the left also goes positive, current flow is A1 to A2 and a1 to a2. When the potential of primary terminal A1 is positive and the secondary terminal on the right goes negative, current flow is A1 to A2 and a1 to a2. When the potential of primary terminal A1 is positive and the secondary terminal on the left goes negative, current flow is A1 to A2 and a2 to a1. The designation of the secondary terminal depends on polarity: With subtractive polarity x1 and x2, and with additive polarity is in the right polarity test. Transformer is uncommon for a line crew needed to perform a polarity test, once that polarity is confirmed in identification plates; However, there may be a situation where an identification card is missing and the polarity needs to be verified. The reduction of the stress of tension would result in a longer life for transformers with greater voltages. To understand this, the voltage and current flowing through the transformer windings must be observed when the positive peak voltage is being produced. It has always been a challenge to explain the polarity of the transformer easily understood by the students. A comparison of tension voltage between windings for additive polarities and subtractives can be determined as follows: As you can see by the tension, stress between windings is considerably higher with a transformer additive. If primary and secondary coils are wrapped in opposite directions, polarity is additive. If wrapped in the same direction, it is subtractive. Power flow element in the determination of transforming polarity is observing how power flows through windings. These marks served as a basis for establishing polarity as we know today. In a 60 Hz CA circuit, the tension changes the polarity 120 times per second. Lower and higher numbers represent complete winding and intermediate numbers represent winding or faucet fractions. The first transformers were simply injured without consideration of polarity. The basic pattern was as follows: The Leads A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, A101, A102, A103, A104, A105, A106, A107, A108, A109, A110, A111, A112, A113, A114, A115, A116, A117, A118, A119, A120, A121, A122, A123, A124, A125, A126, A127, A128, A129, A130, A131, A132, A133, A134, A135, A136, A137, A138, A139, A140, A141, A142, A143, A144, A145, A146, A147, A148, A149, A150, A151, A152, A153, A154, A155, A156, A157, A158, A159, A160, A161, A162, A163, A164, A165, A166, A167, A168, A169, A170, A171, A172, A173, A174, A175, A176, A177, 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