

S.E.R. FAQ **NotTaR of Television Sets** : [Additional information on discharging CR..](#)

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Additional information on discharging CRTs

You may hear that it is only safe to discharge from the Ultor to the Dag. So, what the @#\$% are they talking about? :-).

(From: Asimov (mike.ross@juxta.mnet.pubnix.ten).)

'Dag' is short for Aquadag. It is a type of paint made of a graphite pigment which is conductive. It is painted onto the inside and outside of picture tubes to form the 2 plates of a high voltage filter capacitor using the glass in between as dielectric. This capacitor is between .005uF and .01uF in value. This seems like very little capacity but it can store a substantial charge with 25,000 volts applied.

The outside "Dag" is always connected to the circuit chassis ground via a series of springs, clips, and wires around the picture tube. The high voltage or "Ultor" terminal must be discharged to chassis ground before working on the circuit especially with older TV's which didn't use a voltage divider to derive the focus potential or newer TV's with a defective open divider.

CAUTION: The Dag coating/springs/clips/etc. may not be the same as signal ground on the mainboard. Discharging to that instead could result in all sorts of expensive blown components. Discharging between the CRT anode cap and Dag should be low risk though it is best to use a HV probe or properly rated high value resistor.

For more details, see the document: [TV and Monitor CRT \(Picture Tube\) Information](#).
